

	ADDENDUM NO. 2	
Owner:	Sabine River Authority of Texas	
Project:	Sabinetown Recreation Area - RFB 25-1202	NICHOLAS A. CECAVA
Project No.:	SRA23985	CENSE CONTRACTOR
Addendum No.	2	8-8-2024
Addendum Date:	August 8, 2024	Freese and Nichols, Inc. Texas Registered Engineering Firm F-2144

The following additions, deletions, changes, or clarifications to the proposal documents are hereby made a part of the originally issued documents for the above referenced project as fully and as completely as though the same were included therein. Offerors must acknowledge receipt of this Addendum in the space provided on the Bid Form, Article 5.03.

WRITTEN BIDDER QUESTIONS:

- 1. Question: Can the bid date and question cutoff be pushed to the following week? The question deadline is tomorrow and so is the pre-bid. Given the scope and size of the project, we need at least another week to review plans, ask questions, etc.
 - a. ANSWER: YES, THE DEADLINE EXTENSION FOR BOTH Q/A AS WELL AS THE BID CLOSING HAVE BEEN EXTENDED. REFER TO ADDENDUM NO. 1.
- 2. Question: Can the time of completion be extended to at least 365 calendar days? Given the overall scope of work and the fact that only "abnormal" weather days can be requested, it is unlikely this project can be completed in 270 calendar days.
 - a. ANSWER: THE CONTRACT TIME FOR THE BASE BID WILL REMAIN THE SAME (270 DAYS TO SUBSTANTIAL AND ANOTHER 30 DAYS TO FINAL. IF THE AUTHORITY ELECTS TO TAKE ALTERNATE NO. 1, THEN THE AUTHORITY WILL EXTEND THE CONTRACT DAYS TO 300 DAYS TO SUBSTANTIAL AND 30 DAYS TO FINAL. NO OTHER ALTERNATE TAKING WILL RESULT IN A CONTRACT TIME EXTENSION. THE AUTHORITY WILL APPROVE RAIN/WET DAYS AS LONG AS THE CONTRACTOR PROVIDES SUFFICIENT DOCUMENTATION AND THOSE DAYS ARE REQUESTED IN THE SAME MONTH AS THE CORRESPONDING PAY APPLICATION.
- 3. Question: Flex Base cubic yard quantity is based on 6" thickness. The pavement edges and along the boat dock, etc. the flex base is thicker. Are these thicker areas going to be factored into the cubic yard quantity?
 - a. ANSWER: YES, THE QUANTITY HAS BEEN UPDATED IN THE REVISED EXHIBIT A BID FORM ATTACHED TO THIS ADDENDUM.
- 4. Question: There is curb and gutter shown in several areas, but there is no bid item shown. Can you add this to the bid form?
 - a. ANSWER: YES, A BID ITEM HAS BEEN ADDED FOR 6" CURB AND GUTTER. SEE REVISED EXHIBIT A - BID FORM ATTACHED TO THIS ADDENDUM.



- 5. Question: What is supposed to be included in 12" Compacted Subgrade bid item for the paving? Is this related to proof rolling? The placement/compaction of the dirt will be done as we perform the earthwork which is covered in different items.
 - a. ANSWER: The 12" COMPACTED SUBGRADE BID ITEM INCLUDES THE PROOF ROLLING OF THE SUBGRADE. THE PLACEMENT AND COMPACTION OF THE SUBGRADE IS COVERED BY THE EMBANKMENT BID ITEM.
- 6. Question: The plans show 80-foot-tall aluminum flag poles. Can you add this item to the bid form?
 - a. ANSWER: YES, REFER TO THE REVISED EXHIBIT A BID FORM ATTACHED TO THIS ADDENDUM.
- 7. Question: Are there any specific requirements for the cofferdam to be constructed at the boat ramp?
 - a. ANSWER: PLEASE REFER TO AMENDED SPECIFICATION *31 23 19.01 CARE OF WATER DURING CONSTRUCTION* ATTACHED TO THIS ADDENDUM.
- 8. Question: On Page L1 Detail 3 shows 4" flag stone slab & Detail 6 shows 4" cast stone slab. Can you clarify and give specs and details?
 - a. ANSWER: DETAIL 3/L1 SHOULD READ "CASTSTONE", NOT FLAGSTONE. SPECIFICATION 04 72 00 – CAST STONE MASONRY IS ATTACHED TO THIS ADDENDUM.
- 9. Question: 1. Article 24 Equal Opportunity, do we submit with bid a complete Good Faith Effort HUB Plane? 2. Provide specification for all signage & monument letters. 3. All misc. metals, handrails, trench drains, etc. are to be Stainless steel? 4. Provide floor finish schedule for Pavilion.
 - a. ANSWER: 1) A HUB PLAN IS NOT REQUIRED TO BE SUBMITTED. THERE IS AN AREA ON THE BID OPENING FORM (ARTICLE 2 – DIVERSE BUSINESS CERTIFICATION) WHERE A BIDDER CAN CHECK IF THEY HOLD ANY DISADVANTAGED STATUS. 2) MONUMENT SIGNAGE WILL CONSIST OF PAINTED ALUMINUM PIN-MOUNTED LETTERFORMS (1/4" THICKNESS). REFER TO DETAIL FOR SIZES. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A SHOP DRAWING TO CONFIRM FINAL DETAILS SUCH AS LETTER SPACING, COLOR AND FONT. 3) HANDRAILS (2/S7) WILL BE GALVANIZED, PRIMED AND PAINTED. CABLE RAILING (3/L5) IS TO BE STAINLESS STEEL. 4) THE PAVILION SLAB FINISH IS TO BE A MEDIUM BROOM FINISH WITH SAW CUT CONTROL JOINTS IN THE PATTERN INDICATED ON THE PLANS.
- 10. Question: Will Aquafin or a similar product be used in concrete for waterproofing at the boat ramp or any other areas?
 - a. ANSWER: NO.
- 11. Question: On the boat ramp are you wanting plate dowels at the saw joints? Where is the saw joint detail for the boat ramp? Where does it specify reinforcing in the flat part of the boat ramp?
 - a. ANSWER: 1) NO PLATE DOWELS AT THE SAW JOINTS. 2) A NEW SAW JOINT DETAIL WAS ADDED TO SHEET S5 AS PART OF ADDENDUM NO. 2. 3) THE BOAT RAMP REINFORCING WAS ADDED TO SHEET S5 AS PART OF ADDENDUM NO. 2.
- 12. Question: 1. Drawing C1 alternate #4 reference sheet L7 for details, clarify L9 is correct detail page? 2. Will the treated wood structure require any finish coat?



a. ANSWER: 1) CORRECT, IT SHOULD REFER TO L9. 2) NO FINISH COAT OR OTHER APPLIED TREATMENT IS REQUIRED.

- 13. Question: There is only laydown curb shown at the median in the entrance drive which does not total a quantity 233 LF. Is there is laydown curb somewhere else? If not the quantity should be adjusted.
 - a. ANSWER: THIS QUANTITY HAS BEEN REVISED. REFER TO THE REVISED EXHIBIT A BID FORM ATTACHED TO THIS ADDENDUM.

PRE-BID CONFERENCE DISCUSSION:

- 1. Question: Who is responsible for material testing?
 - a. ANSWER: SRA WILL CONTRACT WITH TERRACON FOR CONSTRUCTION MATERIALS TESTING AND WILL PAY FOR ALL TESTING. RE-TESTS FOR FAILED TESTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. Question: Will there be an on-site inspector for the project?
 - a. ANSWER: FNI WILL PROVIDE PERIODIC CONSTRUCTION MANAGEMENT SERVICES AS NEEDED (APPROXIMATELY 2-3 TIMES PER MONTH). THERE WILL NOT BE A RESIDENT INSPECTOR.
- 3. Question: When was the topo survey for the site performed, before or after the clearing?
 - a. ANSWER: AFTER
- 4. Question: You stated that SRA will allow the contractor all the lake water that they want during construction? Will SRA provide the pumps and are there any restrictions on where we can draw water from?
 - a. ANSWER: THE CONVEYANCE OF THE WATER OUT OF THE LAKE TO THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR CAN DRAW WATER FROM ANYWHERE ON SRA'S PROPERTY. THE CONTRACTOR SHALL NOT ENTER THE U.S. FOREST SERVICE PROPERTY ON THE NORTHERN LIMITS OF THE SITE. PUMPING WATER OUT OF THE LAKE IS PREFERRED, SINCE THE WATERLINE IN VANTAGE POINT IS ONLY A 2" LINE.
- 5. Question: How long after the boat ramp concrete is poured before the cofferdam can be dismantled?
 - a. ANSWER: IF A MIN. 80% COMPRESSIVE STRENGTH IS ACHIEVED ON THE 7-DAY CYLINDER BREAKS, THE COFFERDAM CAN BE REMOVED. OTHERWISE, IT WILL NEED TO REMAIN UNTIL FULL DESIGN COMPRESSIVE STRENGTH IS ACHIEVED.
- 6. Question: If the alternate for the stone veneer is not taken, how will the cable guard rail be affixed?
 - a. ANSWER: THE BASE PLATES FOR THE GUARD RAIL WILL BE MOUNTED DIRECTLY TO THE TOP OF THE CONCRETE WALL.
- 7. Question: Can vegetation be burned on site?
 - a. ANSWER: YES, WITH THE EXCEPTION OF IF SABINE COUNTY IS UNDER A BURN BAN. TREE DEBRIS CAN BE STOCKPILED AND BURNED AT A LATER TIME IN THIS INSTANCE.



UNDER NO CIRCUMSTANCES MAY THE CONTRACTOR BURY RESIDUAL DEBRIS AFTER BURNING ON-SITE.

CONTRACT REQUIREMENTS:

1. Exhibit A – Bid Form – Replace in its entirety. (ATTACHMENT 1)

TECHNICAL SPECIFICATIONS:

- 1. 04 72 00 CAST STONE MASONRY has been added. (ATTACHMENT 2)
- 2. 31 23 19.01 CARE OF WATER DURING CONSTRUCITON has been amended, replace in its entirety. (ATTACHMENT 3)

DRAWINGS:

Replace the following drawings in their entirety. (ATTACHMENT 4)

- 1. G3 Replace in its entirety
- 2. C6 Replace in its entirety
- 3. S1 Replace in its entirety
- 4. S2 Replace in its entirety
- 5. S5 Replace in its entirety
- 6. S6 Replace in its entirety
- 7. S7 Replace in its entirety
- 8. S9 Replace in its entirety
- 9. L1 Replace in its entirety
- 10. L5 Replace in its entirety
- 11. E4.00 Replace in its entirety
- 12. E8.00 Replace in its entirety

Offerors must acknowledge receipt of this Addendum in the space provided on the Bid Form, Article 5.03.

END OF ADDENDUM NO. 2

A12

DIRECTED BY OWNER)

SUBTOTAL PART A - Site Work (Items A1 thru A12)

ADDENDUM 2 ATTACHMENT 1 SHEET 1 OF 4

Project					
Name:	Sabinetown Recreation Area				
Project					
Number:	RFB 25-1202				
Owner:	Sabine River Authority of Texas				
Designer:	Freese and Nichols, Inc.				
Basis of	Bid	I		I	Ι
Item	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
Part A - Site	Work				
A1	MOBILIZATION (5% MAX, BASE BID)	1	LS		
A2	EXCAVATION	30500	CY		
A3	EMBANKMENT (TY D) (FINAL)	35000	CY		
A4	CLEARING AND GRUBBING	4363	SY		
A5	EROSION CONTROL BLANKET	5638	SY		
A6	HYDROMULCH	45575	SY		
A7	SODDING	6204	SY		
A8	4" TOPSOIL	6204	SY		
A9	INSTALL NEW SILT FENCE	500	LF		
A10	REMOVE SILT FENCE	4626	LF		
A11	STORM WATER POLLUTION PREVENTION PLAN	1	LS		
	EXCAVATION AND DISPOSAL OF OBJECTIONABLE MATERIAL (AS				

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Part B - Par	king Area				
B1	12" COMPACTED SUBGRADE	31423	SY		
B2	GEOGRID (TXDOT, TYPE II)	31423	SY		
B3	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	5271	CY		
B4	PRIME COAT (0.15 GAL/SY)	4591	GAL		
B5	2" HMAC, TYPE C	30610	SY		
B6	PAVEMENT MARKING, TYPE 2, (W) (4")	15397	LF		
B7	PAVEMENT MARKING, TYPE 2, (Y) (4")	3750	LF		
B8	PAVEMENT MARKING, TYPE 2, (Y) (4") (DBL)	369	LF		
B9	PAVEMENT MARKING, TYPE 2, (RED) (4")	335	LF		
B10	PAVEMENT MARKINGS (RED) (FIRST RESPONDER PARKING)	2	EA		
B11	PAVEMENT MARKING, TYPE 2, (W) (24")	254	LF		
B12	PAVEMENT MARKINGS (W)(NO PARKING)	4	EA		
B13	PAVEMENT MARKINGS (W) (ARROW)	30	EA		
B14	PAVEMENT MARKINGS (W) (WORD)	1	EA		
B15	24" LAYDOWN CURB	107	LF		
B16	CONCRETE VALLEY GUTTER	52	LF		
B17	SMALL RDSD SIGN ASSM	6	EA		
B18	ACCESSIBLE PAINTED SYMBOL	7	EA		
B19	ACCESSIBLE PARKING SIGN	7	EA		
B20	PRECAST WHEEL STOPS	7	EA		
B21	6" CURB AND GUTTER	301	LF		
SUBTOTAL	PART B - Parking Area (Items B1 thru B21)			•	

Part C - Var	tage Point Roadway Extension				
C1	EXCAVATION	150	CY		
C2	EMBANKMENT (TY A) (FINAL)	50	CY		
C3	GEOGRID (TXDOT, TYPE II)	903	SY		
C4	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	151	CY		
C5	PRIME COAT (0.15 GAL/SY)	118	GAL		
C6	2" HMAC, TYPE C	783	SY		
SUBTOTAL	SUBTOTAL PART C - Vantage Point Roadway Extension (Items C1 thru C6)				

EXHIBIT	A - BID FORM			ADDENDU ATTACHM SHEET 2 0	IM 2 ENT 1 DF 4
ltem	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
Part D - Wa	terline				
D1	2" WATER SERVICE LINE	1540	LF		
D2	3/4" HOSE BIB AND VALVE BOX	1	EA		
D3	2" GATE VALVE AND VALVE BOX	3	EA		
SUBTOTAL	PART D - Waterline (D1 THRU D3)				
	-				
Part E - Sto		03	16		
E1 F2	15" C F T	35	ΕΔ		
SUBTOTAL	PART E - Storm Sewer (E1 THRU E2)	2	LA		
Part F - Bo	at Ramp		-		
F1	DEWATERING (COFFERDAMMING)	1	LS		
F2	SHORELINE EXCAVATION	4500	CY		
F3	FILTER FABRIC	2950	SY		
F4	BOAT RAMP 8" GRAVEL BASE	685	CY		
F5	CIP CONCRETE BOAT RAMP SLAB	675	CY		
SUBTOTAL	PART F - Boat Ramp (F1 thru F5)				
	- Facilities				
Part G - Site		1	15		1
61		252			
62		232	CY		
63		272	CY CY		
G4		10			
GS		1	LS		
G6		1	LS		
G7		1	LS		
G8		167	SY		
G9		1	LS		
GIU		85			
G11	4" CONCRETE SIDEWALK AROUND PAVILION AND RESTROOM	891	SY		
G12		320			
G13		360			
G14	CABLE GUARD RAIL AT TOP OF RETAINING WALL AND STAIRS	270	LF		
G15		/	EA		
G16	FLAG POLE AND FOUNDATION	2	EA		
JUBIUIAL	PART G - Sile Pacificies (GI THRO GIO)				
Part H - Ele	ectrical and Illumination				
H1	SITE PRIMARY POWER	1	LS		
H2	SITE BRANCH POWER/CIRCUITS	1	LS		
H3	FIXTURES	1	LS		
H4	GEAR AND EQUIPMENT	1	LS		
H5	CONCRETE ELECTRICAL ENCLOSURE PAD	1	LS		
SUBTOTAL	PART H - Electrical and Illumination (H1 THRU H5)	·		•	
Part I - Alte	ernate #1 - Overflow Parking Lot Expansion		10	T	
11		1	LS		
12		SY CV			
13		13500			
14	DELIVIESTOINE FLEATELE DASE, TIPE A, GRADE 1-2	1050			
		12000	GAL		
10		5000			
17		1	19		
19		(13500)	SY		

EXHIBIT A - BID FORM				ADDENDUM 2 ATTACHMENT 1 SHEET 3 OF 4	
Item	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
-					
Part J - Alt		1	10	[
11		1	LS		
JZ		۲ ۲ ۲ ۲ ۲	15		
10		15			
15		670	LF		
16	ROCK RIPRAP (LABOR ONLY)	104	CY		
J7	ACCUDOCK ADA ALUMINUM GANGWAY W/ ALL HARDWARE	1	LS		-
J8	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE	1	LS		
J9	12" DIA. TREATED TIMBER DRIVEN PILES	5	EA		
SUBTOTAL	PART J - Alternate #2 - ADA Walkway and Floating Dock (North) (J1 THRU J9)				
Part K - Al	ternate #3 - Floating Dock (South)				
K1	MOBILIZATION (5% MAX, PART K)	1	LS		
К2	6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE)	120	SY		
K3	ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE	1	LS		
К4	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE	1	LS		-
K5	12" DIA. TREATED TIMBER DRIVEN PILES	5	EA		
K6	ROCK RIPRAP (LABOR ONLY)	109	СҮ		
K7	ADDITIONAL CLEARING AT SHORELINE	1	LS		
SUBTOTAL	. PART K - Alternate #3 - Floating Dock (South) (K1 THRU K7)				
-					
Part L - Alt	ternate #4 - Transfer Platform				-
L1	MOBILIZATION (5% MAX, PART L)	1	LS		
L2	TIMBER LOADING RAMP	1	LS		
L3	6" CONCRETE WALKWAY	5	SY		
SUBTOTAL	. PART L - Alternate #4 - Transfer Platform (L1 THRU L3)				
Dort M A	 tarnata #EDecorative Stone Veneor				
M1					
M2	4" STONE VENEER ON RETAINING WALLS	3000	SE		
SUBTOTAL	PART M - Alternate #5 - Decorative Stone Veneer (M1 THRU M2)		51	<u> </u>	
Part N - A	ternate #6 - Wood Framed Alternative Design				
N1	DEDUCT: WOOD FRAMED ALTERNATIVE DESIGN	(1)	LS		
SUBTOTAL	PART N - Alternate #6 - Wood Framed Alternative Design (N1)				

EXHIBIT	A - BID FORM			ADDENDUM ATTACHMEN SHEET 4 OF	2 IT 1 4
Item	DESCRIPTION	ESTIMATED QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT
	BID SUMMARY				
SUBTOTA	L PART A - Site Work (Items A1 thru A12)				
SUBTOTA	L PART B - Parking Area (Items B1 thru B21)				
SUBTOTA	L PART C - Vantage Point Roadway Extension (Items C1 thru C6)				
SUBTOTA	L PART D - Waterline (Items D1 thru D3)				
SUBTOTA	L PART E - Storm Sewer (Items E1 thru E2)				
SUBTOTA	L PART F - Boat Ramp (Items F1 thru F5)				
SUBTOTA	L PART G - Site Facilities (Items G1 thru G16)				
SUBTOTA	L PART H - Electrical and Illumination (Items H1 thru H5)				
BASE BID 1	TOTAL (PARTS A THRU H)				
SUBTOTA	L PART I - Alternate #1 - Overflow Parking Lot Expansion (Items I1 thru I9)				
SUBTOTA	SUBTOTAL PART J - Alternate #2 - ADA Walkway and Floating Dock (North) (Items J1 thru J9)				
SUBTOTAL PART K - Alternate #3 - Floating Dock (South) (Items K1 thru K7)					
SUBTOTA	L PART L - Alternate #4 - Transfer Platform (Items L1 thru L3)				
SUBTOTA	L PART M - Alternate #5 - Decorative Stone Veneer (Items M1 thru M2)				
SUBTOTA	L PART N - Alternate #6 - Wood Framed Alternative Design (Item N1)				



04 72 00 CAST STONE MASONRY

1.00 GENERAL

- 1.01 RELATED DOCUMENTS
 - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Cast-stone trim including the following:
 - a. Window sills.
 - b. Belt courses.
 - 2. Cast stone signage panels.
 - 3. Base caps.
- B. Related Sections:
 - 1. Section 04 20 00 "Unit Masonry" for installing cast-stone units in unit masonry.

1.03 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. For cast-stone units, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Show fabrication and installation details for cast-stone units. Include dimensions, details of reinforcement and anchorages if any, and indication of finished faces.
 - 1. Include building elevations showing layout of units and locations of joints and anchors.
- C. Samples for Verification:
 - 1. For each color and texture of cast stone required, 10 inches square in size.
 - 2. For each trim shape required, 10 inches in length.
 - 3. For colored mortar, make Samples using same sand and mortar ingredients to be used on Project. Label Samples to indicate types and amounts of pigments used.
- D. Full-Size Samples: For each shape of cast-stone unit required.
 - 1. Make available for Architect's review at Project Site .
 - 2. Approved Samples may be installed in the Work.

1.04 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For manufacturer testing agency.
 - 1. Include copies of material test reports for completed projects, indicating compliance of cast stone with ASTM C1364.



2. Provide test reports based on testing within previous 2 years.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer of cast-stone units similar to those indicated for this Project, that has sufficient production capacity to manufacture required units, and is a plant certified by the Cast Stone Institute.
- B. Testing Agency Qualifications: Qualified according to ASTM E329 for testing indicated.
- C. Mockups: Furnish cast stone for installation in mockups specified in Section 04 20 00 "Unit Masonry."
- D. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Build mockup of typical wall area as shown on Drawings.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Coordinate delivery of cast stone with unit masonry work to avoid delaying the Work.
- B. Pack, handle, and ship cast-stone units in suitable packs or pallets.
 - 1. Lift with wide-belt slings; do not use wire rope or ropes that might cause staining. Move cast-stone units if required, using dollies with wood supports.
 - 2. Store cast-stone units on wood skids or pallets with non-staining, waterproof covers, securely tied. Arrange to distribute weight evenly and to prevent damage to units. Ventilate under covers to prevent condensation.

1.07 PROJECT CONDITIONS

A. Refer to Unit Masonry Specifications, 04 20 00

2.00 PRODUCTS

- 2.01 MANUFACTURERS
 - A. Source Limitations for Cast Stone: Obtain cast-stone units from single source from single manufacturer.
 - B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color, from one manufacturer for each cementitious component and from one source or producer for each aggregate.

2.02 CAST-STONE MATERIALS

- A. General: Comply with ASTM C1364.
- B. Portland Cement: ASTM C150/C150M, Type I or Type III, containing not more than 0.60 percent total alkali when tested according to ASTM C114. Provide natural color or white cement as required to produce cast-stone color indicated.

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- C. Coarse Aggregates: Granite, quartz, or limestone complying with ASTM C33/C33M; gradation and colors as needed to produce required cast-stone textures and colors.
- D. Fine Aggregates: Natural sand or crushed stone complying with ASTM C33/C33M, gradation and colors as needed to produce required cast-stone textures and colors.
- E. Color Pigment: ASTM C979/C979M, synthetic mineral-oxide pigments or colored waterreducing admixtures; color stable, free of carbon black, nonfading, and resistant to lime and other alkalis.
- F. Admixtures: Use only admixtures specified or approved in writing by Architect.
 - 1. Do not use admixtures that contain more than 0.1 percent water-soluble chloride ions by mass of cementitious materials. Do not use admixtures containing calcium chloride.
 - 2. Use only admixtures that are certified by manufacturer to be compatible with cement and other admixtures used.
 - 3. Water-Reducing Admixture: ASTM C494/C494M, Type A.
 - 4. Water-Reducing, Retarding Admixture: ASTM C494/C494M, Type D.
 - 5. Water-Reducing, Accelerating Admixture: ASTM C494/C494M, Type E.
- G. Reinforcement: Deformed steel bars complying with ASTM A615/A615M, Grade 60. Use galvanized or epoxy-coated reinforcement when covered with less than 1-1/2 inches of cast-stone material.
 - 1. Epoxy Coating: ASTM A775/A775M.
 - 2. Galvanized Coating: ASTM A767/A767M.
- H. Embedded Anchors and Other Inserts: Fabricated from stainless steel complying with ASTM A240/A240M, ASTM A276, or ASTM A666, Type 304.

2.03 CAST-STONE UNITS

- A. Subject to compliance with requirements, provide the following:
 - 1. Siteworks Architectural Cast Stone
- B. Cast-Stone Units: Comply with ASTM C1364.
 - 1. Units shall be manufactured using the vibrant dry tamp method.
- C. Fabricate units with sharp arris and accurately reproduced details, with indicated texture on all exposed surfaces unless otherwise indicated.
 - 1. Slope exposed horizontal surfaces 1:12 to drain unless otherwise indicated.
 - 2. Provide raised fillets at backs of sills and at ends indicated to be built into jambs.
 - 3. Provide drips on projecting elements unless otherwise indicated.
- D. Fabrication Tolerances:
 - 1. Variation in Cross Section: Do not vary from indicated dimensions by more than 1/8 inch.



- 2. Variation in Length: Do not vary from indicated dimensions by more than 1/360 of the length of unit or 1/8 inch, whichever is greater, but in no case by more than 1/4 inch.
- 3. Warp, Bow, and Twist: Not to exceed 1/360 of the length of unit or 1/8 inch, whichever is greater.
- 4. Location of Grooves, False Joints, Holes, Anchorages, and Similar Features: Do not vary from indicated position by more than 1/8 inch on formed surfaces of units and 3/8 inch on unformed surfaces.
- E. Cure Units as Follows:
 - 1. Cure units in enclosed, moist curing room at 95 to 100 percent relative humidity and temperature of 100 deg F for 12 hours or 70 deg F for 16 hours.
 - 2. Keep units damp and continue curing to comply with one of the following:
 - a. No fewer than 5 days at mean daily temperature of 70 deg F or above.
 - b. No fewer than 6 days at mean daily temperature of 60 deg F or above.
 - c. No fewer than 7 days at mean daily temperature of 50 deg F or above.
 - d. No fewer than 8 days at mean daily temperature of 45 deg F or above.
- F. Acid etch units after curing to remove cement film from surfaces to be exposed to view.
- G. Colors and Textures: As selected by Architect from manufacturer's full range.
- H. Colors and Textures: Provide units with fine-grained texture and buff color resembling sandrubbed Indiana limestone.

2.04 MORTAR MATERIALS

- A. Provide mortar materials that comply with Section 04 20 00 "Unit Masonry."
- 2.05 ACCESSORIES
 - A. Anchors: Type and size indicated, fabricated from Type 304 stainless steel complying with ASTM A240/A240M, ASTM A276, or ASTM A666.
 - B. Dowels: 1/2-inch- diameter round bars, fabricated from Type 304 stainless steel complying with ASTM A240/A240M, ASTM A276, or ASTM A666.

2.06 MORTAR MIXES

- A. Comply with requirements in Section 04 20 00 "Unit Masonry" for mortar mixes.
- B. Comply with ASTM C270, Proportion Specification.
 - 1. For setting mortar, use Type N.
 - 2. For pointing mortar, use Type N.
- C. Pigmented Mortar: Use colored cement product or select and proportion pigments with other ingredients to produce color required. Do not add pigments to colored cement products.
 - 1. Pigments shall not exceed 10 percent of portland cement by weight.



- 2. Pigments shall not exceed 5 percent of masonry cement or mortar cement by weight.
- 3. Mix to match Architect's sample.
- 4. Application: Use pigmented mortar for exposed mortar joints.
- D. Colored-Aggregate Mortar: Produce required mortar color by using colored aggregates and natural color or white cement as necessary to produce required mortar color.
 - 1. Mix to match Architect's sample.
 - 2. Application: Use colored-aggregate mortar for exposed mortar joints.
- 2.07 SOURCE QUALITY CONTROL
 - A. Engage a qualified independent testing agency to sample and test cast-stone units according to ASTM C1364.

3.00 EXECUTION

- 3.01 EXAMINATION
 - A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 - B. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.02 SETTING CAST STONE IN MORTAR
 - A. Install cast-stone units to comply with requirements in Section 04 20 00 "Unit Masonry."
 - B. Set cast stone as indicated on Drawings. Set units accurately in locations indicated, with edges and faces aligned according to established relationships and indicated tolerances.
 - 1. Install anchors, supports, fasteners, and other attachments indicated or necessary to secure units in place.
 - 2. Coordinate installation of cast stone with installation of flashing specified in other Sections.
 - C. Wet joint surfaces thoroughly before applying mortar or setting in mortar.
 - D. Set units in full bed of mortar with full head joints unless otherwise indicated.
 - 1. Set units with joints 3/8 to 1/2 inch wide unless otherwise indicated.
 - 2. Build anchors and ties into mortar joints as units are set.
 - 3. Fill dowel holes and anchor slots with mortar.
 - 4. Build concealed flashing into mortar joints as units are set.
 - 5. Keep head joints in copings and between other units with exposed horizontal surfaces open to receive sealant.
 - 6. Keep joints at shelf angles open to receive sealant.



- E. Rake out joints for pointing with mortar to depths of not less than 3/4 inch. Rake joints to uniform depths with square bottoms and clean sides. Scrub faces of units to remove excess mortar as joints are raked.
- F. Point mortar joints by placing and compacting mortar in layers not greater than 3/8 inch. Compact each layer thoroughly and allow it to become thumbprint hard before applying next layer.
- G. Tool exposed joints slightly concave when thumbprint hard. Use a smooth plastic jointer larger than joint thickness.
- H. Rake out joints for pointing with sealant to depths of not less than 3/4 inch. Scrub faces of units to remove excess mortar as joints are raked.
- I. Point joints with sealant to comply with applicable requirements in Section 07 92 00 "Joint Sealants."
 - 1. Prime cast-stone surfaces to receive sealant and install compressible backer rod in joints before applying sealant unless otherwise indicated.
- J. Provide sealant joints at head joints of copings and other horizontal surfaces; at expansion, control, and pressure-relieving joints; and at locations indicated.
 - 1. Keep joints free of mortar and other rigid materials.
 - 2. Build in compressible foam-plastic joint fillers where indicated.
 - 3. Form joint of width indicated, but not less than 3/8 inch.
 - 4. Prime cast-stone surfaces to receive sealant and install compressible backer rod in joints before applying sealant unless otherwise indicated.
 - 5. Prepare and apply sealant of type and at locations indicated to comply with applicable requirements in Section 07 92 00 "Joint Sealants."
- 3.03 SETTING ANCHORED CAST STONE WITH SEALANT-FILLED JOINTS
 - A. Set cast stone as indicated on Drawings. Set units accurately in locations indicated, with edges and faces aligned according to established relationships and indicated tolerances.
 - 1. Install anchors, supports, fasteners, and other attachments indicated or necessary to secure units in place.
 - 2. Shim and adjust anchors, supports, and accessories to set cast stone in locations indicated with uniform joints.
 - B. Keep cavities open where unfilled space is indicated between back of cast-stone units and backup wall; do not fill cavities with mortar or grout.
 - C. Fill anchor holes with sealant.
 - 1. Where dowel holes occur at pressure-relieving joints, provide compressible material at ends of dowels.
 - D. Set cast stone supported on clip or continuous angles on resilient setting shims. Use material of thickness required to maintain uniform joint widths. Hold shims back from face of cast stone a distance at least equal to width of joint.



- E. Keep joints free of mortar and other rigid materials. Remove temporary shims and spacers from joints after anchors and supports are secured in place and cast-stone units are anchored. Do not begin sealant installation until temporary shims and spacers are removed.
 - 1. Form open joint of width indicated, but not less than 3/8 inch.
- F. Prime cast-stone surfaces to receive sealant and install compressible backer rod in joints before applying sealant unless otherwise indicated.
- G. Prepare and apply sealant of type and at locations indicated to comply with applicable requirements in Section 07 92 00 "Joint Sealants."

3.04 ADJUSTING AND CLEANING

- A. Remove and replace stained and otherwise damaged units and units not matching approved Samples. Cast stone may be repaired if methods and results are approved by Architect.
- B. Replace units in a manner that results in cast stone matching approved Samples, complying with other requirements, and showing no evidence of replacement.
 - 1. Protect adjacent surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
 - 2. Wet surfaces with water before applying cleaners; remove cleaners promptly by rinsing thoroughly with clear water.
 - 3. Clean cast stone with proprietary acidic cleaner applied according to manufacturer's written instructions.

END OF SECTION



31 23 19.01 CARE OF WATER DURING CONSTRUCTION

1.00 GENERAL

1.01 WORK INCLUDED

A. Furnish labor, materials, equipment and incidentals necessary to operate pumps, piping and other facilities to assist in the removal of surface water, stormwater runoff, and ground water, and provide protection of the work site from water of any source. Build and maintain the necessary temporary cofferdams, berms, diversions, impounding works, channels and ditches to protect the work site from lake levels and spillway discharges, streamflow, and stormwater runoff. Remove the temporary works, equipment, and materials after completion in accordance with this Section and the applicable Drawings.

1.02 SUBMITTALS

- A. Submittals shall be in accordance with the Contract Documents and shall include:
 - 1. Cofferdam plans and details specific for this construction sealed by a Professional Engineer registered in the state of Texas.
 - 2. Plans and procedures for handling flood flows, stormwater runoff, and dewatering excavations for approval by the Engineer. Modifications to these plans shall also be submitted for approval by the Engineer.
 - 3. Plans shall include a demonstration that any cofferdams or diversions provide at least 10-year flood protection for protected structures under construction.
- B. Approval of submittals does not relieve the Contractor of full responsibility and liability for care of water during construction.

2.00 PRODUCTS (NOT APPLICABLE)

3.00 EXECUTION

3.01 FLOOD FLOWS AND OTHER SURFACE WATER

A. The Contractor is responsible for handling and diverting any flood flows, stormwater runoff, stream flows, or any other water, including groundwater encountered during the progress of the work. Build, maintain, and operate cofferdams, channels, flumes, sumps, berms, ditches, and other temporary works as needed to pass spillway discharge and divert stream flow or stormwater runoff water through or around the construction site and away from construction work while it is in progress. The handling of stormwater runoff should be coordinated with the erosion control plan. Unless otherwise approved by the Owner, a diversion must discharge into the same natural watercourse in which its headworks are located. Construct permanent Work in areas free from water. Full responsibility for the successful dewatering of the work areas rests with the Contractor. Remove protective works, after they have served their purpose, in a manner satisfactory to the Owner or its representative.



3.02 DEWATERING EXCAVATED AND OTHER FOUNDATION AREAS

- A. Contractor is responsible for dewatering foundations for all areas during construction of the Project, including areas of required backfills. Lower the water table as needed to keep work areas free of standing water or excessively muddy conditions as needed for proper performance of the construction work. Furnish, prepare, and maintain drains, sumps, casings, well points, and other equipment needed to dewater areas for required construction work. Any dewatering method that causes a loss of fines from foundation areas shall not be permitted. Keep available standby equipment to ensure the proper and continuous operation of the dewatering system. Provide continuous monitoring (24 hours per day) of the dewatering system to ensure continuous operation.
- B. Construction modifications in the dewatering system may be required by the Engineer to provide adequate performance. In the event of failure of the system, flooding of the excavation may be ordered by the Engineer until the system is operative.

3.03 DEWATERING BORROW AREAS

A. Unless otherwise specified on the Drawings, maintain the borrow areas in drainable condition or otherwise provide for timely removal of surface waters that accumulate, for any reason, within the borrow areas.

END OF SECTION



APPENDIX A

A1.00 MEASUREMENT AND PAYMENT

A1.01 MEASUREMENT

A. No measurements are required.

A1.02 PAYMENT

A. Payment for the work covered under this Section will be made at the lump sum price bid for "Dewatering (Cofferdamming)", which payment shall constitute full compensation for all costs of furnishing the labor, equipment, and materials for any temporary diversions and drainage channels, installing pumps and other dewatering equipment as required, maintaining the work area free from water, and removing the temporary protective works as needed to comply with this Section. Partial payments will be made based upon the number of days **bid** for the Contract and the number of contract days completed. If the contract term is changed by Change Order, the remaining portion of the lump sum will be divided over the remaining term of the Contract for partial payments.

END OF APPENDIX A

I I EIVI	DESCRIPTION	QUANTITY	UNIT		
	PART A - SITE WORK			TESTING SCHEDULE	
,	MOBILIZATION (5% MAX, BASE BID)	1	LS		ГСТ
	EMBANKMENT (TY D) (FINAL)	35000	СҮ	DESCRIPTION MINIMUM RATE	ESI.
1	CLEARING AND GRUBBING	4363	SY		
6	HYDROMULCH	45575	SY	SOILS:	
A7	SODDING	6204	SY	STANDARD PROCTOR - TRENCH BACKEILI	1
A8 A9	4" TOPSOIL INSTALL NEW SILT FENCE	6204 500	SY LF		1
A10	REMOVE SILT FENCE	4626	LF	STANDARD PROCIOR - SUBGRADE	
A11	STORM WATER POLLUTION PREVENTION PLAN	1	LS	DENSITIES - TRENCH BACKFILL PER 200 LF TRENCH/LIFT	4
A12	OWNER)	1000	CY	DENSITIES - SUBGRADE (PARKING AREA) PER 200 LF LANE/LIFT	120
	PART B - PARKING AREA			DENSITIES - SUBGRADE (DRIVEWAYS) PER 2 DRIVEWAYS	2
B1 B2	I2" COMPACTED SUBGRADE GEOGRID (TXDOT, TYPE II)	31423	SY SY	DENSITIES - SUBGRADE (SIDEWALK) PER 5000 SF	4
B3	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	5271	CY		
B4 B5	PRIME COAT (0.15 GAL/SY)	4591	GAL		
B6	PAVEMENT MARKING, TYPE 2, (W) (4")	15397	LF	FLEXIBLE BASE:	
B7	PAVEMENT MARKING, TYPE 2, (Y) (4")	3750	LF	SIEVE ANALYSIS PER 3000 CY	2
B0 B9	PAVEMENT MARKING, TYPE 2, (RED) (4")	335	LF	ATTERBURG LIMITS PER 3000 CY	2
B10	PAVEMENT MARKINGS (RED) (FIRST RESPONDER PARKING)	2	EA		2
B11 B12	PAVEMENT MARKING, TYPE 2, (W) (24") PAVEMENT MARKINGS (W)(NO PARKING)	254	LF EA		2
B13	PAVEMENT MARKINGS (W) (ARROW)	30	EA	L.S. ABRASION PER 3000 CY	2
B14	PAVEMENT MARKINGS (W) (WORD)	1	EA	CBR (STANDARD) PER MATERIAL SOURCE	1
B16	CONCRETE VALLEY GUTTER	52	LF	WET BALL MILL TEST PER MATERIAL SOURCE	1
B17	SMALL RDSD SIGN ASSM	6	EA	TRIAXIAL TEST PER MATERIAL SOURCE	1
в18 B19	ACCESSIBLE PARKING SIGN	7	EA	DENSITIES OF COMPACTED BASE PER 200 LE LANE/LIET	120
B20	PRECAST WHEEL STOPS	7	EA		
B21	6" CURB AND GUTTER PART C - VANTAGE POINT ROADWAY EXTENSION	301	LF		
C1		150	СҮ	HOT-MIX ASPHALT CONCRETE (HMAC):	
C2		50	CY	EXTRACTION, SIEVE ANALYSIS	6
C3	6" LIMESTONE FLEXIBLE BASE, TYPE A, GRADE 1-2	151	CY		6
C5	PRIME COAT (0.15 GAL/SY)	118	GAL		
C6	2" HMAC, TYPE C PART D - WATERI INF	783	SY	INEURETICAL DEINSTER (RICE METHOD) PER 500 TONS OR DAY	6
D1	2" WATER SERVICE LINE	1540	LF	TEMPERATURE - DURING LAY-DOWN CONTINUOUS AS NEEDED	1
D2	3/4" HOSE BIB AND VALVE BOX	1	EA	THICKNESS - IN PLACE (CORE) PER 1000 LF	4
03	PART E - STORM SEWER	3		% AIR VOIDS - IN PLACE (CORE) PER 1000 LF	4
E1	15" CLASS III RCP	93	LF	% THE OBETICAL DENSITY - IN PLACE (COBE) DEB 1000 LE	1
E2	15" S.E.T. PART F - BOAT RAMP	2	EA		-
F1	DEWATERING (COFFERDAMMING)	1	LS		
F2 F3	SHORELINE EXCAVATION	4500	CY SY	CONCRETE:	
F4	BOAT RAMP 8" GRAVEL BASE	685	CY	(UNCONFINED COMPRESSION, 7, 14, & 28 DAY)	
F5	CIP CONCRETE BOAT RAMP SLAB	675	CY		2
G1	PREFABRICATED RESTROOM BUILDING	1	LS		2
G2	EXCAVATION FOR RESTROOM BUILDING FOUNDATION	252	CY	CONCRETE RETAINING WALLS	4
G3 G4	SELECT FILL FOR RESTROOM BUILDING FOUNDATION	272	CY CY		
G5	ONSITE SEWAGE FACILITY	1	LS	CONCRETE BOAT RAMP:	
G6 G7	PAVILION PAVILION FOUNDATION	1	LS	COMPRESSION STRENGTH (7 & 28 DAY)	6
G8	6" CONCRETE DRIVEWAY	167	SY		
G9	PARK ENTRY SIGNAGE	1	LS	FLEXURAL (BEAM) STRENGTH (7 & 28 DAY) PER DAY	6
G10 G11	4" CONCRETE SIDEWALK AROUND PAVILION AND RESTROOM	891	SY	AIR CONTENT PER DAY	6
G12	CONCRETE RETAINING WALL AND STAIRS	320	СҮ	SLUMP PER DAY	6
G13 G14	CABLE GUARD RAIL AT TOP OF RETAINING WALL AND STAIRS	360 270		.	
G15	TRASH RECEPTACLES	7	EA		
G16		2	EA		
H1	SITE PRIMARY POWER	1	LS		
H2	SITE BRANCH POWER/CIRCUITS	1	LS	TESTING SCHEDULE NOTES:	
н3 Н4	GEAR AND EQUIPMENT	1 1	LS		
H5	CONCRETE ELECTRICAL ENCLOSURE PAD	1	LS	1. THE ABOVE TESTING RATES ARE ONLY ANTICIPATED GUIDELINES, THE	
11	PART I - ALTERNATE #1 - OVERFLOW PARKING LOT EXPANSION	1	10	ENGINEER RESERVES THE RIGHT TO CONDUCT ADDITIONAL LESTING AT THE	
12	12" COMPACTED SUBGRADE	13500	SY	ENGINEER'S DIGENERION. NE TEST FOR FAILORES ARE NOT INCLUDED.	
13	GEOGRID (TXDOT, TYPE II)	13500	SY	2. MOISTURE CONTENTS TO BE INCLUDED WITH DENSITY TEST.	
14 15	PRIME COAT (0.15 GAL/SY)	1950	GAL		
<mark>16</mark>	2" HMAC, TYPE C	13000	SY	3. IN THE EVENT OF FAILURES, ADDITIONAL TESTS WILL BE REQUIRED.	
17 18	PAVEMENT MARKING, TYPE 2, (W) (4") SITE ELECTRICAL & ILLUMINATION (OVERFLOW PARKING AREA)	5000 1	LF		
I9	DEDUCT: HYDROMULCH (ITEM A6)	(13500)	SY	THE MATERIALS TESTING AND WILL PROVIDED THE CONTRACTOR WITH THE	
11	PART J - ALTERNATE #2 - ADA WALKWAY AND FLOATING DOCK (NORTH)	4	10	CONTACT INFORMATION.	
J1 J2	PERMATRAK PRECAST ADA CONCRETE BOARDWALK	1	LS		
J3	DRILL SHAFT (24") FOR BOARDWALK	578	LF		
J4	CONCRETE PIER CAPS FOR BOARDWALK	15 670	CY IF		
15	ROCK RIPRAP (LABOR ONLY)	104	СҮ		
J6	ACCUDOCK ADA ALUMINUM GANGWAY W/ ALL HARDWARE	1	LS		
J5 J6 J7		1			
J5 J6 J7 J8 J9	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES	5			
J5 J6 J7 J8 J9	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH)	5			
J5 J6 J7 J8 J9 K1 K2	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT BAMPSIONE)	5	LS		
J5 J6 J7 J8 J9 K1 K2 K3	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE	5 1 120 1	LS SY LS		
J5 J6 J7 J8 J9 K1 K2 K3 K4	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE	5 1 120 1 1 1	LS SY LS LS		
J5 J6 J7 J8 J9 K1 K2 K3 K4 K5 K6	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONI Y)	5 1 120 1 1 1 5 109	LS SY LS LS EA CY		
J5 J6 J7 J8 J9 K1 K2 K3 K4 K5 K6 K7	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE	5 1 120 1 1 1 5 109 1	LS SY LS LS EA CY LS		
5 6 7 8 9 9 1 2 3 3 4 5 6 7	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE PART L - ALTERNATE #4 - TRANSFER PLATFORM	5 1 120 1 1 1 5 109 1 1	LS SY LS LS EA CY LS		
	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE PART L - ALTERNATE #4 - TRANSFER PLATFORM MOBILIZATION (5% MAX, PART L) TIMBER LOADING RAMP	5 1 120 1 1 1 5 109 1 1 1 1 1	LS LS LS LS EA CY LS LS LS LS		
	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE PART L - ALTERNATE #4 - TRANSFER PLATFORM MOBILIZATION (5% MAX, PART L) TIMBER LOADING RAMP 6" CONCRETE WALKWAY	5 1 120 1 1 1 5 109 1 1 1 1 1 5	LX LS SY LS LS EA CY LS LS LS SY		
	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE PART L - ALTERNATE #4 - TRANSFER PLATFORM MOBILIZATION (5% MAX, PART L) TIMBER LOADING RAMP 6" CONCRETE WALKWAY PART M - ALTERNATE #5 - DECORATIVE STONE VENEER MOBILIZATION (5% MAX, PART M)	5 1 120 1 1 5 109 1 1 1 1 5 5 1 1	LS SY LS LS EA CY LS LS LS SY		
J5 J6 J7 J8 J9 (1 (2 (3) (4 (5) (4 (5) (7) (4) (5) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES PART K - ALTERNATE #3 - FLOATING DOCK (SOUTH) MOBILIZATION (5% MAX, PART K) 6" CONCRETE WALKWAY (MATCH BOAT RAMP SLOPE) ACCUDOCK ALUMINUM GANGWAY W/ ALL HARDWARE ACCUDOCK FLOATING DOCK W/ ALL HARDWARE 12" DIA. TREATED TIMBER DRIVEN PILES ROCK RIPRAP (LABOR ONLY) ADDITIONAL CLEARING AT SHORELINE PART L - ALTERNATE #4 - TRANSFER PLATFORM MOBILIZATION (5% MAX, PART L) TIMBER LOADING RAMP 6" CONCRETE WALKWAY PART M - ALTERNATE #5 - DECORATIVE STONE VENEER MOBILIZATION (5% MAX, PART M) 4" STONE VENEER ON RETAINING WALLS	5 1 120 1 1 5 109 1 1 1 1 1 5 5 1 0 1 1 3000	LS SY LS LS EA CY LS LS LS SY LS SF		

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PROPC	SED SYMBOLS
	CONCRETE CURB
	CONCRETE SIDEWA
	ASPHALT PAVEME
-11.30%	SLOPE DIRECTION

WATER LINE — W — UNDERGROUND ELECTRICAL —— UE ——

RIP-RAP

- 500

NORTH ARROW

✓ ↓ ↓ ↓ ↓

<u> − B−1</u>

BORE LOCATION

CP5736 CONTROL POINT

SHEET WHERE DETAIL IS SHOWN

SECTION CUT INDICATOR

SHEET WHERE DETAIL IS SHOWN

SHEET WHERE DETAIL IS SHOWN

LEGEND/ABBREVIATIONS EXISTING SYMBOLS 11100 B POWER POLE \sim PP EWALK OR PAVEMENT LP LIGHT POLE TINK S C SPROK MENT SP SIGN POST þ Т TELEPHONE PEDESTALS FREESE §NICHOLS ELECTRICAL LINE —— E —— EXISTING CONTOUR — 500 —— PROPOSED CONTOUR PROPERTY LINE _____ 800 Cor Pho Ve EXISTING ROADWAY _____///____//// SILT FENCE —— SF —— LIMITS OF CONSTRUCTION TRAFFIC FLOW ARROW — LOC — AREA NOTE: \mathcal{O} STABILIZED CONSTRUCTION ENTRANCE ٩ĽŪ SABINETOWN RECREATION QUANTITI WHERE THE WORD "PROPOSED" OR "PROP." IS UTILIZED IN THIS SET OF DOCUMENTS, IT SHALL MEAN "NEW CONSTRUCTION TO BE TURF ESTABLISHMENT PERFORMED AS PART OF THIS CONTRACT." GENERAL AREAS OF CLEARING ND 4 \square LEGENI (BY LETTER) - SECTION TITLE SECTION TITLE SCALE: 1/2"=1'-0" T-2SECTION SCALE SECTION CUT DIRECTION SECTION OR DETAIL MARK __DETAIL TITLE DETAIL TITLE SCALE: 1/2"=1'-0" DT−2 Bar So if not ADDENDUM 2 ATTACHMENT 4 SHEET 1 OF 12 SHEET G3 SEQ. **ISSUED FOR BID**



	POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION	
1	10537842.98	4349840.44	226.69	EP/PT	
2	10537873.47	4349874.22	227.23	EP/PI	
3	10537902.12	4349915.75	227.95	EP/PI	
4	10537882.90	4349933.26	228.08	EP/PI	
5	10537843.88	4349901.14	227.30	EP/PI	
6	10537813.17	4349867.03	226.80	EP-PC	
7	10538111.45	4350145.52	227.82	EP/PC	
8	10538142.80	4350182.52	227.81	EP/PT/PC	
9	10538181.59	4350189.82	227.85	EP/PT	
10	10538092.23	4350163.03	231.44	EP/PC	
11	10538144.39	4350228.25	232.08	EP/GB	
12	10537964.70	4350023.04	230.00	EP/VPI	
13	10538257.25	4350676.93	201.52	EP/GB	
14	10538241.50	4350759.62	199.95	BC	
15	10538240.28	4350764.46	199.89	BC	
16	10538230.38	4350800.14	199.33	BC/GB	
17	10538224.97	4350825.18	198.61	BC/PC	
18	10538227.25	4350855.77	198.26	BC/PT	
19	10538238.77	4350883.27	197.44	BC/PC	
20	10538290.70	4350936.18	194.87	BC/PT	

	POINT TABLE				
PNT	NORTHING	EASTING	ELEVATION	DESCRIPTION	
21	10538323.86	4350950.24	193.87	TOR	
22	10538110.97	4349725.47	220.00	PI	
23	10538320.30	4349955.25	221.44	EP/PC	
24	10538402.84	4350059.58	232.00	EP/PI	
25	10538407.04	4350065.77	223.24	EP/GB	
26	10538273.87	4349904.29	226.54	VPI	
27	10538534.18	4350340.31	226.31	EP/VPI	
28	10538555.87	4350766.13	201.50	EP/GB	
29	10538516.69	4350918.19	199.03	BC/GB	
30	10538506.72	4350945.31	197.90	BC/PC/PT	
31	10538483.39	4350971.72	196.43	BC/DW	
32	10538436.56	4350992.96	194.03	EP/DW	
33	10538427.99	4350996.65	193.87	EC/PI	
34	10538470.51	4350900.10	198.83	ТС	
35	10538422.70	4350993.77	193.87	TOR	

С	BACK OF CURB
W	DRIVEWAY
Р	EDGE OF PAVEMENT
В	GRADE BREAK
С	POINT OF CURVATURE
I	POINT OF INTERSECTION
Т	POINT OF TANGENT
С	TOP OF CONCRETE
ΡI	VERTICAL POINT OF INTERSECTION

GENE	RAL		FI
1.	CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, INCLUDING LOCAL SUPPLEMENTS, EXCEPT WHERE APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.		PI D. S(
2.	CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH APPLICABLE OSHA, STATE, AND LOCAL REGULATIONS. THIS DESIGN IS NOT INTENDED TO CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS OR TO RELIEVE THE CONTRACTOR OF COMPLIANCE WITH THESE REQUIREMENTS. IN CASE OF CONFLICT WITH SAFETY OR APPLICABLE REGULATIONS, CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING WITH FABRICATION OR CONSTRUCTION.		C C i i
3.	 PRIOR TO FABRICATION OR CONSTRUCTION: A. REVIEW OTHER DISCIPLINE DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA, WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS. B. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, DEPRESSIONS, OFFSETS, SLEEVES, CURBS, PADS, INSERTS, EQUIPMENT REQUIREMENTS, ETCETERA. C. FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING LOCATION AND DIMENSIONS OF 		E. SI PI LI N F. TI
	ALL EXISTING CONSTRUCTION AND UTILITIES. D. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES BETWEEN DISCIPLINES, CONSTRUCTABILITY ISSUES, OR EXISTING CONDITIONS.		PI FI G. B
4.	REMOVE ALL ABANDONED FOUNDATIONS, UTILITIES, PIPELINES, ETCETERA THAT INTERFERE WITH NEW CONSTRUCTION.		A W
5.	THE STRUCTURE IS DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.		Η. G
6.	PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.		EI LC
7.	THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.		PI I. TI
LOAD	DS (SERVICE/STRENGTH LEVEL, UNO)		C.
1.	SUPERIMPOSED DEAD LOADS (NOT INCLUDING STRUCTURAL FRAMING SELF-WEIGHT): A. ROOF: 13 PSF B ELEVATED ELOORS: 8 PSF	4.	ALL BELO CONTRAC
2.	FLOOR LIVE LOADS: A. MECH, ELECT, AND EQUIP ROOMS: 150 PSF		BELOW G ADDED T CONTRAG
3.	 B. SLAB-ON-GRADE: 100 PSF C. RESTROOMS: 50 PSF ROOF LIVE LOAD: 	5.	DO NOT I BRACING
4.	A. ROOF: 20 PSF LATERAL LOADS: A. RISK CATEGORY II R. WIND LOAD:	6.	EXTERIO UNLESS N
	 i. BASIC WIND SPEED: V = 110 MPH ii. WIND EXPOSURE: C 	7.	ALL FOUI
	 iii. INTERNAL PRESSURE COEFFICIENT: GCpi = +/-0.18 C. SEISMIC LOAD: i. SEISMIC IMPORTANCE FACTOR: I = 1.00 	8.	SHALL BE
	 ii. MAPPED SPECTRAL ACCELERATIONS: SS = 0.116, S1 = 0.058 iii. SITE CLASS: D iv. SPECTRAL RESPONSE COEFFICIENT: SDS = 0.124, SD1 = 0.093 		LOAD PLU PRESSUR FAILURE
	 v. SEISMIC DESIGN CATEGORY: A vi. BASIC SEISMIC FORCE-RESISTING SYSTEM: ORDINARY TIMBER CONCENTRICALLY BRACED FRAME 	9.	ALLOWA
	 ORDINARY TIMBER WITH SHEAR WALLS vii. DESIGN BASE SHEAR V = 0.01W viii. SEISMIC RESPONSE COEFFICIENT: CS = 0.032 ix. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE 	10.	MOISTUF PLACED. COMPLE
FOUM	NDATION	11	
1.	FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT "GEOTECHNICAL ENGINEERING REPORT; SABINETOWN PARK DEVELOPMENT-PHASE 1; ;	11.	COMPLE FREE OF
	HEMPHILL, TEXAS", DATED APRIL 9, 2024, PREPARED BY RINER ENGINEERING, INC. A UES COMPANY (REPORT NO. 23-0711). A COPY OF THIS REPORT IS AVAILABLE FOR INSPECTION AT THE ENGINEER'S OFFICE FOR INFORMATIONAL PURPOSES ONLY. THE GEOTECHNICAL REPORT IS <u>NOT</u> PART OF THE CONTRACT DOCUMENTS.	12.	WORKING AGGREG SEGMEN MANUFA
2.	EXCAVATION DESIGN AND SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY SLOPES SHOWN ARE A MAXIMUM AND SHALL BE DECREASED AS REQUIRED FOR SAFETY OR TO MEET OSHA REQUIREMENTS.	13.	ADDITIO
3.	EXCAVATION AND SUBGRADE PREPARATION A. IN THE AREAS OF IMPROVEMENTS REMOVE AND DISPOSE OF ALL CONCRETE, TREES,	CON	EXCAVAT EXCAVAT
	ALL VEGETATION SHALL BE REMOVED AND THE EXPOSED SURFACE SCARIFIED TO AN ADDITIONAL DEPTH OF AT LEAST 6 INCES.	<u>con</u> 1.	CONCRET 318.][CO ACI 350.
	B. BUILDING PAD AND PAVING SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK OR SIMILAR PNEUMATIC-TIRE EQUIPMENT TO LOCATE AREAS OF LOOSE SUBGRADE. IN AREAS TO BE CUT, THE PROOFROLL SHALL BE PERFORMED AFTER THE FINAL GRADE IS ESTABLISHED. IN AREAS TO BE FILLED, THE PROOFROOL SHALL BE PERFORMED PRIOR TO FILL PLACEMENT. AREAS OF LOOSE OR SOFT SUBGRADE ENCOUNTERED IN THE PROOFROLL SHALL BE REMOVED AND	2.	ALL DETA OTHERW EDITION.
	REPLACED WITH ENGINEERING FILL, MOISTURE CONDITIONED (DRIED OR WETTED, AS NEEDED) AND COMPACTED IN PLACE.	3.	CONCRET A. G B. R C S
	C. LIMIT EXTREME WETTING OR DRYING OF THE SUBSURFACE SOILS TO PREVENT SWELLING AND SHRINKAGE OF SOILS. STANDARD CONSTRUCION PRACTICES OF GOOD SURFACE WATER DRAINAGE MUST BE USED. POSITIVE SLOPE OF THE GROUND AWAY		C. SI D. O E. C
			F. W G. A H. El

- ROM ANY FOUNDATOIN SHALL BE PROVIDED. DITCHES OR SWALES SHALL BE PROVIDED TO CARRY RUN-OFF WATER DURING AND AFTER CONSTRUCTION. SOFT AND/OR WET SURFACE SOILS MAY BE ENCOUNTERED DURING CONSTRUCTION, SPECIALLY FOLLOWING PERIODS OF WET WEATHER. IF SPECIFIED COMPACTION CANNOT BE ACHIEVED DUE TO SOFT OR WET SURFACE SOILS, ONE OF THE FOLLOWING CORRECTIVE MEASURES WILL BE REQUIRED:
- REMOVAL OF THE WET AND/OR SOFT SOIL AND REPLACEMENT WITH SELECT FILL
- .i. CHEMICAL TREATMENT OF THE WET AND/OR SOFT SOIL TO IMPROVE THE SUBGRADE STABILITY, OR
- iii. IF ALLOWED BY THE SCHEDULE, DRYING BY NATURAL MEANS ELECT FILL SHALL CONSIST OF SOIL WITH A LIQUID LIMIT LIESS THAN 35 AND A PLASTICITY INDEX BETWEEN 7 AND 20. THE SELECT FILL HALL BE PLACED IN LOOSE IFTS NOT EXCEEDING 8-INCHES AND SHALL BE COMPACTED TO AT LEAST 95 PERCENT MAXIMUM DRY DENSITY (PER ASTM D-698) AND AT A MOISTURE CONTENT BETWEEN DPTIMUM AND 4 PERCENT ABOVE OPTIMUM MOISTURE CONTENT.
- THE SUBGRADE TO RECEIVE SELECT FILL SHALL BE SCARIFIED TO A DEPTH OF 6-INCHES AND COMPACTED TO 92 TO 96 PERCENT OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY (ASTM D-698) AT A WORKABLE MOISTURE LEVEL AT LEAST 4 PERCENT POINTS ABOVE OPTIMUM.
- BASED ON LABORATORY TESTING CONDUCTED FOR THIS PROJECT, THE NATIVE CLAY DN-SITE SOILS WILL NOT MEET REQUIREMENTS FOR SELECT FILL OUTLINED ABOVE. AS AN ALTERNATIVE TO IMPORTING SELECT FILL, THE NATIVE CLAY SOIL MAY BE BLENDED VITH LIME TO REDUCE THE PLASTICITY INDEX TO MEET SELECT FILL REQUIREMENTS. PRIOR TO PROCEEDING WITH THIS OPTION, LIME SERIES TESTS SHALL BE PERFORMED O ASSESS THE AMOUNT OF LIME REQUIRED.
- GENERAL FILL MAY BE PLACED IN IMPROVED AREAS OUTSIDE THE BUILDING PAD AREAS. GENERAL FILL SHALL CONSIST OF MATERIAL APPROVED BY THE GEOTECHINCAL NGINEER WITH A LIQUID LIMIT LESS THAN 50. GENERAL FILL SHALL BE PLACED IN OOSE LIFTS NOT EXCEEDING 8-INCHES AND SHALL BE UNIFORMLY COMPACTED TO A /INIMUM OF 95 PERCENT MAXIMUM DRY DENSITY (PER ASTM D-698) AND WITH +/- 2 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- THE SUBGRADE MOISTURE CONTENT AND DENSITY SHALL BE MAINTAINED DURING CONSTRUCTION.

DW GRADE FOUNDATION ELEMENTS ARE DESIGNED WITH FORMED SIDES. IF THE CTOR ELECTS TO USE EARTH FORMED SIDES, THE EXPOSED SURFACE AND 12 INCHES

GRADE SHALL BE FORMED TO THE DESIGN DIMENSION AND ONE INCH SHALL BE TO EACH SIDE TO PROVIDE ADEQUATE COVER OVER THE REINFORCING AT THE CTOR'S EXPENSE.

BACKFILL FOUNDATION WALLS UNTIL THE RESTRAINING SLABS OR ADEQUATE G ARE IN PLACE.

R SLABS SHALL SLOPE AWAY FROM THE STRUCTURE A MINIMUM OF 1/4" PER FOOT NOTED OTHERWISE. GRADING AROUND STRUCTURES SHALL BE SUCH AS TO DRAIN ALL AWAY FROM BUILDINGS.

NDATIONS SHALL BEAR ON SOUND, UNDISTURBED, LEVEL EXCAVATIONS. REMOVE ANY LOOSE DEBRIS FROM EXPOSED BEARING SURFACE. SUITABLE BEARING MATERIAL E VERIFIED BY A GEOTECHNICAL PROFESSIONAL ENGINEER

ABLE NET BEARING PRESSURE USED FOR FOUNDATION DESIGNS IS 1,500 PSF (NET DEAD US SUSTAINED LIVE LOAD) AND 2,250 PSF (NET TOTAL LOAD PRESURE). THE BEARING RE IS BASED ON A FACTOR OF SAFETY OF 3 AND 2, RESPECTIVELY, AGAINST SHEAR OF THE FOUNDATION BEARING SOILS.

ABLE NET BEARING CAPACITY FOR CONTINUOUS STRIP FOOTING IS 2,000 PSF.

RE CONTENT IN FOOTING EXCAVATIONS SHALL BE MAINTAINED UNTIL FOOTING IS FOOTINGS SHALL BE PLACED AS SOON AS PRACTICAL AFTER EXCAVATIONS ARE TED.

ABS, WHERE INDICATED, SHALL BE PLACED THE SAME DAY EXCAVATION IS TED. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT THE BEARING SURFACE IS LOOSE AND/OR DELETERIOUS MATERIAL BEFORE PLACEMENT OF MUD SLAB.

IG PLATFORM: 8" OF COMPACTED CLEAN CRUSHED STONE (ASTM C33 NO. 57 COARSE GATE) OVER NON-WOVEN GEOTEXTILE (MIRAFI 1100N OR APPROVED EQUAL). LAP ITS A MINIMUM OF 3FEET BUT NOT LESS THAN THAT REQUIRED BY THE ACTURER. EXTEND GEOTEXTILE BEYOND LIMITS OF CRUSHED STONE AS REQUIRED TO E ENDS OF CRUSHED STONE AND TOP WHERE EXPOSED. EXTEND GEOTEXTILE AN NAL 12" TO RETURN/LAP UNDER CONCRETE SLAB.

ENT OF WORK PLATFORM SHALL BE [WITHIN 24 HOURS OF][THE SAME DAY AS] FINAL TION. IF THIS TIME LIMITATION CANNOT BE MET, THEN AT A MINIMUM, 6" OF TION SHALL REMAIN UNTIL WORK PLATFORM IS PLACED.

TE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301 AND ACI DNCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301 AND

AILING, FABRICATION AND ERECTION OF REINFORCING BARS, UNLESS NOTED VISE, SHALL BE IN ACCORDANCE WITH THE ACI DETAILING MANUAL (ACI SP-66), LATEST

TE SHALL HAVE SPECIFIED COMPRESSIVE STRENGTHS, f'c, AT 28-DAYS AS FOLLOWS: GRADE BEAMS: 4,000 PSI

- RETAINING WALLS: 5,000 PSI
- IDEWALKS AND CURBS:3,000 PSI DTHER: 3,000 PSI
- CEMENT: PORTLAND CEMENT, ASTM C150, TYPE I/II, EQUIVALENT ALKALIES < 0.60% V/C RATIO: 0.45 MAXIMUM
- AGGREGATE: ASTM C 33, 1" MAXIMUM, CLASS 3M NTRAINED AIR: ACI 318-08, EXPOSURE CLASS F1
- SLUMP: 5" (+/-1")

- 4. ALL REINFORCING SHALL BE IN ACCORDANCE WITH ASTM A615
- 5. CONCRETE CLEAR COVER OVER REINFORCING SHALL BE AS LISTE OTHERWISE.
 - A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: B. ALL OTHER: 2"
 - C. SEE DRAWINGS FOR EXCEPTIONS
- 6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" 3/4" RADIUS ON SLABS UNLESS NOTED OTHERWISE.
- 7. SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS AND/OR SHOWN ON THE DRAWINGS OR AT 15 FEET MAXIMUM SPACING JOINTS IN STRUCTURAL SLABS. CONTRACTOR SHALL LOCATE SL INFORMATION SHOP DRAWINGS.
- 8. ALL CONSTRUCTION JOINTS (CXJ) SHALL BE THOROUGHLY CLEAN ROUGHENED TO 1/4" PRIOR TO PLACING ADJACENT CONCRETE.
- 9. ADDITIONAL CONSTRUCTION JOINTS SHALL HAVE PRIOR APPRO
- 10. PENETRATIONS OTHER THAN SHOWN SHALL NOT BE ALLOWED FROM THE ENGINEER.
- 11. IN CASES WHERE REINFORCING BARS CANNOT BE EXTENDED AS LIMITED EXTENT OF THE ADJACENT CONCRETE STRUCTURE, THE AS POSSIBLE AND END IN STANDARD HOOKS.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF BRACING AND SHORING.
- 13. CONDUITS AND PIPING EMBEDDED IN CONCRETE SHALL BE SPA DIAMETERS AND THE OUTSIDE DIAMETER SHALL BE LESS THAN THICKNESS PLACED BETWEEN LAYERS OF REINFORCING.
- 14. UNLESS NOTED OTHERWISE, HOOKS SHOWN ON DRAWINGS SH STANDARD HOOKS PER ACI 318.
- 15. UNLESS NOTED OTHERWISE, LAP SPLICES IN BEAMS AND WALL
- 16. BUNDLED BARS ARE BARS PLACED IN CONTACT WITH EACH OT OR FOUR. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL N SHALL NOT BE LAP SPLICED.
- 17. ALL REINFORCING SHALL BE CONTINUOUS. CONTINUOUS BARS OF SMALLER BAR LAPPED. UNLESS NOTED OTHERWISE. ALL RE SHALL BE 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

POST-INSTALLED ANCHORS (EXPANSION OR ADHESIVE)

- 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INS (MPII), BUT NOT LESS THAN THAT INDICATED BELOW.
- 2. INSTRUCTIONS BELOW ARE NOT INTENDED TO CONFLICT WITH **REGULATIONS OR TO RELIEVE CONTRACTOR OF COMPLIANCE V** AND OSHA REGULATIONS. IN CASE OF CONFLICT WITH SAFETY CONTACT THE ENGINEER FOR GUIDANCE BEFORE PROCEEDING CONSTRUCTION.
- 3. ADHESIVE ANCHORS SHALL ONLY BE INSTALLED BY CONSTRUCT UNDER ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION EQUAL. SUBMIT CERTIFICATIONS AS RECORD DATA PRIOR TO AI
- 4. SUBMIT ANCHOR MATERIAL CERTIFICATIONS AND ALLOW INSPI ANCHORS ONSITE, PRIOR TO INSTALLATION.
- 5. ANCHOR DIAMETER AND EMBEDMENT SHALL BE AS INDICATED
- 6. HOLES SHALL BE DRILLED USING ROTARY HAMMER DRILLS WIT CARBIDE-TIPPED DRILL BITS. DRILL BIT DIAMETER SHALL MATCH BY MANUFACTURER. DRILL HOLES USING ANCHOR MANUFACT EXTRACTION SYSTEM OR APPROVED EQUAL.
- 7. USE CARE AND CAUTION WHEN INSTALLING TO AVOID CUTTIN REINFORCING STEEL. FIELD VERIFY EXISTING REINFORCING LOC OR CONSTRUCTION, AND THEN COORDINATE REBAR LOCATION

8. <u>EXPANSION ANCHORS</u> SHALL BE A STUD BOLT TYPE WITH HEX H

- GALVANIZED STEEL UNLESS NOTED OTHERWISE, AND AS NOTE A. ANCHORS SHALL BE DEWALT POWER STUD+, HILTI KWIK
- STRONG-TIE STRONG-BOLT 2.
- B. VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.
- C. DRIVE ANCHOR INTO HOLE WITH A HAMMER AND THEN TORQUE.

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WITHOUT PRIOR APPROVAL					oreline	aristi, 16 361) 56	vw.free		
S FAR AS REQUIRED DUE TO THE E BARS SHALL EXTEND AS FAR					800 N. Sh	Corpus Cl Phone - (3	Web - wv		
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S SHALL BE STAGGERED.		HORIT	EAT					L L C	
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SHALL LAP 48 BAR DIAMETERS BAR EMBEDMENT LENGTHS		SABINE RI	NETOWN			STR			
STALLATION INSTRUCTIONS			SABII					U)
APPLICABLE SAFETY OR OSHA VITH ALL APPLICABLE SAFETY OR OSHA REGULATIONS, WITH FABRICATION OR									
TION PERSONNEL CERTIFIED PROGRAM OR APPROVED NCHOR INSTALLATION.		N JOB NO.	5KA23985 TE 2-12-12	1 0//1//24		AWN DKS	ECKED	PRUVEU SRT	TES(01).dwg
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G OR DAMAGING EXISTING ATIONS PRIOR TO FABRICATION IS WITH SHOP DRAWINGS.								ale is one inch on this :	
HEAD NUT AND SHALL BE D BELOW:							12	Bar Sc if not c	scale.
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ADDENDUM 2 ATTACHMENT 4		SH	EET		S	1			

SHEET 3 OF 12

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9. <u>ADHESIVE ANCHORS</u> SHALL BE DEFORMED REINFORCING BARS (ASTM A615, GR 60) OR

- GALVANIZED STEEL THREADED ROD, UNLESS NOTED OTHERWISE, AND AS NOTED BELOW: A. ADHESIVE SHALL BE DEWALT PURE220+, HILTI HIT-RE 500 V3, OR SIMPSON STRONG-TIE SET-3G. USE DEWALT AC200, HILTI HIT-HY 270, SIMPSON STRONG-TIE SET-3G FOR HOLLOW AND GROUTED MASONRY.
 - B. PRIOR TO INSTALLATION: ALL DEFORMED BARS AND THREADED ROD SHALL BE CLEAN, FREE OF OIL, GREASE, OR OTHER RESIDUE, IN ACCORDANCE WITH MPII.
 - C. VERIFY HOLE IS CLEAR OF DUST AND DEBRIS.
 - D. INSTALL ADHESIVE STARTING AT BACK OF HOLE. AS REQUIRED BY MPII, USE MANUFACTURER SUPPLIED PISTON PLUG INJECTION SYSTEM FOR ALL HORIZONTAL AND VERTICALLY INCLINED HOLES.
 - E. INSTALL ANCHOR BY SIMULTANEOUSLY TWISTING AND INSERTING INTO HOLE.F. ALLOW ANCHOR TO SET REQUIRED TIME. DO NOT DISTURB.
 - G. TIGHTEN NUT. DO NOT OVER-TORQUE.
 - H. MINIMUM CONCRETE AGE AT TIME OF INSTALLATION: 28DAYS
 - I. CONCRETE TEMPERATURE RANGE AT TIME OF INSTALLATION SHALL BE: 41DEG F TO 104DEG F.
 - J. CONCRETE MOISTURE CONDITION AT TIME OF INSTALLATION: DRY.

PRE-ENGINEERED BUILDING

- 1. THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PRE-ENGINEERED STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN, EXCEPT AS NOTED. OVERALL DIMENSIONS AND CONSTRUCTION DETAILS MAY VARY TO SUIT MANUFACTURER'S STANDARD DESIGN.
- 2. THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO AISC, MBMA AND AISI LATEST SPECIFICATIONS. THE DIMENSIONAL TOLERANCES OUTLINED IN THE AWS CODE UNDER WORKMANSHIP AND THE TOLERANCES APPLICABLE TO ROLL FROM STEEL UNDER THE AISC "STANDARD MILL PRACTICE", SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
- 3. THE BUILDING FRAME SHALL BE DESIGNED TO LIMIT THE LATERAL DEFLECTION TO L/180 AT THE BUILDING EAVE, WHERE L IS THE HEIGHT OF THE BUILDING EAVE.
- 4. THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEM, AND ALL OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.
- 5. DESIGN LOADS SHALL CONFORM TO THE GENERAL NOTES AND LOAD COMBINATIONS SHALL COMPLY WITH MBMA SPECIFICATIONS.
- 6 . UNLESS CROSS BRACING IS USED TO RESIST LATERAL LOADS, LOAD TESTS ON METAL PANEL WALLS AND ROOF MUST BE SUBMITTED WHERE THESE ARE USED AS A DIAPHRAGM.

	Freese and Nichols, Inc. Texas Registered Engineering Firm F-2144				န္ကေစိစစ္စစ္စစ္စစ္စစ္စစ္စစ္စစ္တ SHANE RAY TORNO	うち 13 0 80499 0 14 14 0 80499 0 14	۲۰ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵ ۵	A P C STONAL EN	Chane down
					800 N. Shoreline Blvd Suite 1600N	Corpus Christi, Texas 78401-3700	Phone - (361) 561-6500 Web - www.fraece.com		
		SABINE RIVER AUTHORITY	CAPINIETOWN DECDEATION ADEA	DADINE I O VV N RECREATION AREA		STRIICTURAL			STRUCTURAL NOTES (02)
		F&N JOB NO.	SRA23985	DATE 07/17/24	DESIGNED SRT	DRAWN DKS	CHECKED	APPROVED SRT	-NOTES(01).dwg
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ADDENDUM 2
ATTACHMENT 4
SHEET 4 OF 12



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Use spacer for stems of unequal thickness Edge of wall Wall reinforcing continues through construction joint (T	Frees and Nichols, Inc.	A Shoreline Blud. Suite 1600N	ous Christi, Texas 78401-3700 ne - (361) 561-6500 ວ - www.freese.com
		SABINETOWN RECREATION AREA	
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	LIGHT FIXTURE SCH	IEDULE
TYPE	DESCRIPTION	MOUNTING
Ŧ	PARKING LOT PULL/LED FIXTURE. LUMINAIRE WITH MICRO STRIKE 320 OPTICS, INTEGRAL SURGE SUPPRESSION DEVICE, FIELD ROTATABLE OPTICS, UL 1598 WET LOCATION LISTED, DIE-CAST ALUMINUM HOUSING, COLOR CHOICE PER ARCHITECT/OWNER, SIZE 2, TYPE 4 DISTRIBUTION. EQUAL TO CURRENT VIPER SERIES. POLE: ROUND TAPERED STEEL (RTS) 30FT POLE. COLOR TO MATCH FIXTURE AND APPROVED BY ARCHITECT/ OWNER. INCLUDE	POLE MOUNTED
	VIBRATION DAMPER SYSTEM FOR EVERY POLE. EQUAL TO VALMONT POLE NUMBER: XXXX XXXX-XX-XX X-XXXX. NEXUS 750 WATT SPORTS LIGHTER LED. YOLK MOUNT FRAME, HEAVY DUTY DIE-CAST ALUMINUM HOUSING DESIGNED TO MINIMIZE GLARE AND BE WEATHER TIGHT WITH 3G VIBRATION RATINGS TO ENSURE IT CAN SURVIVE HARSH ENVIRONMENTS. NEXUS COMES STANDARD WITH 20KV SURGE PROTECTION AND 110 VOLT DIMMING INTEGRAL OR REMOTE DRIVER OPTIONS ARE AVAILABLE, 10 YEAR WARRANTY, CALCULATED LIFE HOURS 100,000+ CALM DRIVER MANUFACTURED BY MEANWELL, OPERATING TEMPERATURE -40°F TWO 122°F. BEAM OPTICS OPTIONS ARE 25° AND 30°. FIXTURE COMBS WITH ANTISTATIC POWDER COATING BLACK IN COLOR. FIXTURE ALSO INCLUDES POLYCARBONATE MATCHING HOOD VISOR.	YOKE MOUNTED O HIGH MAST FIXTURE RING.
	POLE: ROUND TAPERED STEEL 100 FOOT POLE. GALVANIZED STEEL POLE INCLUDES (3) SECTIONS. INCLUDE VIBRATION DAMPER SYSTEM FOR EACH HIGH MAST POLE ORDERED. EQUAL TO VALMONT POLE NUMBER: XXXX XXXX-XX-XX X- XXXX.	EACH POLE SHALL INCLUDE RAISE/LOWERING SYSTEM TO ALLOV FIXTURE MAINTENAN AT GROUND LEVEL
D	CANOPY LED FIXTURE DESIGNED FOR OUTDOOR AND INDOOR PAVILIONS. 19 INCHES IN DIAMETER WITH A LOW PROFILE OF 3.75 INCHES. CRI INDEX 80, TYPE 5 OPTICS, PENDANT MOUNTED, INCLUDE BIRD SHIELD WHEN ORDERING. ALSO INCLUDE 500 LUMEN UP-LIGHT OPTION. VERIFY WITH ARCHITECT/ OWNER FOR COLOR CHOICE. EQUAL TO LITHONIA THE VCPG LED SERIES. ALSO INCLUDE SENSORS AS REQUIRED TO CONTROL ALL TYPE D FIXTURES WITH INLIGHT CONTROL SYSTEM OF APPROVED EQUAL	PENDANT MOUNT WI BIRD PROTECTION SHIELD/SHROUD
S (SIGN)	LINEAR SIGN LIGHT FIXTURE, EXTRUDED ALUMINUM, STAINLESS STEEL FASTENERS, ACRYLIC/UV RESISTANT LENS, KMS KNUCKLE MOUNTING TO ALLOW AIMING, WFL DISTRIBUTION, SET-BACK DETERMINED DURING MOCK-UP, POWDER COATED BLACK FINISH, COLOR AS SELECTED BY OWNER, EQUAL TO HYDREL 4750L STATIC WHITE SERIES, 0-10V DIMMING.	GROUND REFER TO DETAIL SHEET E4.00
NOTES		
1	VERIFY EXACT LOCATION, MOUNTING, AND METHOD OF INSTALLATION PRIOR TO ROUGH-IN.	N FOR ALL LIGHTING F
2	SUBMIT POINT-BY-POINT FOOT-CANDLE CALCULATIONS FOR PAVILIC PAVILION AND 20 FT. CENTERS FOR SITE)	ON AND SITE LIGHTING

3 INCLUDE VIBRATION DAMPERING SYSTEM FOR EACH POLE.

	LAMPS	VOLTAGE
	260.1W LED 32,642 LUMENS 5000K	240
N	760.1W LED 9,660 LUMENS 4000K	240 (100-277)
/ CE -		
TH I	82W LED 11,027 LUMENS 5000K	120
	42 WATT LED 4594 LUMENS 3000K	240
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ZONE	LOC.	PHOTOCELL	NUMBER	SWITCH	CONTACTOR NO.	CIRCUITS		
DLES P1-P6 & P9-P18	ENCL NO.1	1	TC-1	1	C-1	6P-30A	MP-1,3 MP-2,4	
OLES P7 THRU P8	ENCL NO.1	1	TC-1	2	C-2	2P-30A	MP-6,8	
√TRY SIGN	ENCL NO.1	1	TC-1	3	C-3	2P-30A	MP-5,7	
VILION LIGHTS	ENCL NO.2	2	TC-2	4	C-4	2P-30A	P-1	
VILION FAN	ENCL NO.3	FAN OFF/ON	AND SPEED B	YCONTRO	OLLER INCLUDED W	ITH FAN	P-4,6	
 IN ENCLOSURE No. 1 3. PHOTOCELL SHALL BE INSTALLED (WITH GRC PROTECTIVE COLLAR) ON EXTERIOR OF NORTH WALL OF ENCLOSURE No. 1 AS HIGH AS POSSIBLE AND FACING NORTH. 4. PROVIDE PHOTOCELL-ON, TIMECLOCK-OFF CONTROL AND HOA SWITCH FOR BY-PASS ON/OFF/AUTO OPERATION. 								
HOA SWITCHES SHAL	I BE INSTALL	ED IN HINGED			INTAGIOR REFER			





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TYPE	QUANTITY	VOLTAGE		Copyright © 202	4 ALL RIGHTS RESERVED		1	19888	VAL 07	15	2024
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LIGHTING FIX NOTE: BEAM SETBACK DIS DETERMINED MOCK-UP WI

___1/2" CHAMFE

STEEL REINFO (2) 1" PVC CON MOUNTING STAK

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