ADDENDUM NO. 3 CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS

August 14, 2021

LJA JOB NO. B883-1015C (9.4)

The following changes will be considered part of the Construction Plans, Bid Proposal and Contract Documents:

1.) Reference: Contract Documents - Invitation to Bidders

Replace: Page 1 of 1 with revised Page 1 of 1 (attached).

Clarification: Bid Opening is rescheduled to 11:00 a.m., Thursday, August 19, 2021.

2.) Reference: Contract Documents - Bid Proposal

Replace: Pages 1 through 20 of 20 with revised Pages 1 through 24 of 24 (attached).

3.) Reference: Technical Specifications – Section 09 9113 – Exterior Painting

Replace: Pages 1 through 8 of 8 with revised Pages 1 through 8 of 8 (attached).

4.) Reference: Technical Specifications – Section 16111 – Conduit, Fittings, and Bodies

Replace: Pages 1 through 9 of 9 with revised Pages 1 through 9 of 9 (attached).

5.) Reference: Construction Plans

Replace: Sheets 1-S1.01, 1-E2.01, H6, H9, H10, C3, C4, C7, E2, E3, E4, E5, E6, E7, E8, and E9

with revised Sheets 1-S1.01, 1-E2.01, H6, H9, H10, C3, C4, C7, E2, E3, E4, E5, E6,

E7, E8, and E9 (attached).

There are no other changes or revisions to the Construction Plans, Bid Proposal and Contract Documents at this time.



INVITATION TO BIDDERS

SEALED PROPOSALS addressed to Sabine River Authority for construction of the Lake Tawakoni Tournament Facility Architectural and Utilities, LJA Job No. B883-1015C, will be received at the office of Sabine River Authority, Lake Tawakoni Division Office, 169 Rcr 1480, Point, Texas 75472, until 11:00 a.m., **Thursday, August 19, 2021**, and then publicly opened and read aloud.

Copies of the Plans and Specifications may be obtained from www.civcastusa.com. There is no cost to view the plans and printing can be done through the website. Hard copies of Bidding Documents will not be sold. Complete sets of Bidding Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work, and do not confer a license or grant for any other purpose.

Sabine River Authority will hold a non-mandatory pre-bid conference at the office of the Sabine River Authority, Lake Tawakoni Division Office, 169 Rcr 1480, Point, Texas 75472, at 11:00 a.m., Wednesday, July 28, 2021. Sabine River Authority reserves the right to reject any and all bids. The Successful Bidder, if any, will be the responsible Bidder which in the Board's judgment will be most advantageous to the District and result in the best and most economical completion of the Project. (Texas Water Code 49.273)

Bid security in the form of bid bond, certified or cashier's check payable to Sabine River Authority in an amount not less than five percent (5%) of the Bid submitted, must accompany each Bid.

The requirements of Subchapter J, Chapter 552, Government Code, may apply to this Bid and/or Contract and bidder/contractor agrees that the Contract can be terminated if the bidder/contractor knowingly or intentionally fails to comply with a requirement of that subchapter.

Bidder/Contractor declares that it has not received from a governmental body a notice of noncompliance with a provision of Subchapter J, Chapter 552, Texas Government Code, or, if such notice has been received, bidder/contractor has taken adequate steps to ensure future compliance with such subchapter and has provided or upon request will provide documentation of same.

Dates of Advertisement: 07/14/21; 07/21/21

			Date:	
Bid of _			ne of Bidder – Company)	
	(Le	gal Nam	ie of Bidder – Company)	
	[]	an individual proprietorship	
	[]	a corporation organized and existing under the laws of	•
	[]	a partnership consisting of	
	[]	a joint venture	
	[]	other	
FOR:			CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C	
TO:			SABINE RIVER AUTHORITY Lake Tawakoni Division Office	

169 Rcr 1480 Point, Texas 75472

CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

Ladies and Gentlemen:

Pursuant to the foregoing Invitation and Instructions to Bidders, the undersigned bidder hereby proposes to do all the work for the unit prices bid to furnish all necessary superintendence, labor, machine, equipment, tools, materials, insurance and miscellaneous items, to complete all work according to the bids, as provided in the construction plan and contract documents for the construction of the Lake Tawakoni Tournament Facility Architectural and Utilities, and clean up the site to the satisfaction of the Owner/Engineer, and bind himself on acceptance of this proposal to execute a contract and bonds for completing said project within the time stated for the following prices, to wit:

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
ARCH	ITECTURAL ITEMS				
1.	CONCRETE FOUNDATIONS FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
2.	MASONRY FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
3.	STRUCTURAL STEEL FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
4.	ROUGH CARPENTRY FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
5.	FINISH CARPENTRY FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
6.	WATERPROOFING FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
7.	METAL ROOFING FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
ARCH	ITECTURAL ITEMS				
8.	JOINT SEALANTS FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
9.	PAINTING AND STAINING FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
10.	SPECIALTIES FOR PAVILION, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
11.	PLUMBING ITEMS FOR PAVILION INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
12.	ELECTRICAL ITEMS FOR PAVILION INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
13.	MECHANICAL ITEMS FOR PAVILION INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
SUBTO	OTAL ARCHITECTURAL ITEMS			\$	

^{*} Denotes Minimum Unit Price Bid for Each Item

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
CIVIL I	TEMS				
1.	2" P.V.C. WATER PIPE, PRESSURE CLASS 200, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1,677	\$	\$
2.	3/4" P.V.C. WATER PIPE, SCHEDULE 40, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	216	\$. \$
3.	2" TO ¾" REDUCER, COMPLETE IN PLACE	EA	2	\$	\$
4.	2" AWWA GATE VALVE AND BOX, MULTIPLE LOCATIONS PER PLAN, COMPLETE IN PLACE	EA	4	\$	\$
5.	2" X 2" TAPPING SLEEVE AND VALVE, COMPLETE IN PLACE	EA	1	\$	\$
6.	WATER LINE TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1,893	\$	\$
7.	5" REINFORCED CONCRETE PAVEMENT FOR PEDESTRIAN WALKWAY, COMPLETE IN PLACE	SY	995	\$	\$
8.	7" REINFORCED CONCRETE PAVEMENT FOR PAVILION, COMPLETE IN PLACE	SY	998	\$	\$
9.	8" LIME STABILIZED SUB-GRADE FOR PEDESTRIAN WALKWAY, AS DIRECTED BY ENGINEER (MANIPULATION), COMPLETE IN PLACE	SY	995	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
CIVIL I	TEMS				
10.	8" LIME STABILIZED SUB-GRADE AS DIRECTED BY ENGINEER FOR PAVILION (MANIPULATION), COMPLETE IN PLACE	SY	998	\$	\$
11.	6" P.V.C. STORM SEWER PIPE, SCHEDULE 40 WITH WATER TIGHT JOINTS (WT). ALL CUTS, INCLUDES FITTINGS, CEMENT STABILIZED SAND BACKFILL TO WITHIN 1' OF SUBGRADE (AS REQUIRED), ALL DEPTHS, COMPLETE IN PLACE	LF	214	\$	\$
12.	NDS PART #620 POP UP EMITTER, MULTIPLE LOCATIONS, INSTALLED PER PLAN, COMPLETE IN PLACE	EA	4	\$	\$
13.	NDS PART #101 6" SPEE-D BASIN, MULTIPLE LOCATIONS, INSTALLED COMPLETE IN PLACE	EA	12	\$	\$
14.	NDS 6" ROUND SATIN BRASS GRATE WITH STYRENE COLLAR, ADA COMPLIANT, MULTIPLE LOCATIONS, INSTALLED COMPLETE IN PLACE	EA	8	\$	\$
15.	18" X 54" CONCRETE PIER FOUNDATION (SONOTUBE COMMERCIAL CONCRETE FORM) FOR ELECTRICAL SWITCH RACK, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	EA	4	\$	\$
16.	6" REINFORCED CONCRETE PAVEMENT FOR ELECTRICAL SWITCH RACK, COMPLETE IN PLACE	SY	3	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
CIVIL I	TEMS				
17.	SELECT FILL BENEATH RESTROOM AT A DEPTH OF 4' OVEREXCAVATION, INSTALLED COMPLETE IN PLACE	CY	112	\$	\$
18.	HYDRATED LIME FOR 8" SUBGRADE FOR PEDESTRIAN WALKWAY, (50 LBS/SY) AS REQUIRED BY SOIL CONDITIONS AND APPROVED BY GEOTECHNICAL ENGINEER, COMPLETE IN PLACE	TON	25	\$. \$
19.	HYDRATED LIME FOR 8" SUBGRADE FOR PAVILION, (50 LBS/SY) AS REQUIRED BY SOIL CONDITIONS AND APPROVED BY GEOTECHNICAL ENGINEER, COMPLETE IN PLACE	TON	25	\$	\$
SUBTO	OTAL CIVIL ITEMS			\$	

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
ELEC1	TRICAL ITEMS				
1.	INCOMING ELECTRICAL SERVICE EXCLUSIVE OF CHARGES FROM THE UTILITY PROVIDER	LS	1	\$	\$
2.	ELECTRICAL MAIN POWER PANEL (ELECTRICAL RACK NO. 1), COMPLETE IN PLACE	LS	1	\$	\$
3.	ELECTRICAL POWER PANEL (ELECTRICAL RACK NO. 2 RESTROOM AREA), COMPLETE IN PLACE	LS	1	\$	\$
4.	ALL ELECTRICAL CONDUIT AND WIRING, IN PLACE, ABOVE GROUND AND UNDERGROUND INCLUDING GROUNDING, EXCLUSIVE OF BID ALTERNATE #6 ELECTRICAL (FLAG AND POLE LIGHTING), INSTALLED COMPLETE IN PLACE	LS	1	\$	\$
5.	BOLLARDS AT ELECTRICAL RACK, INSTALLED COMPLETE	EA	4	\$	\$
SUBTO	OTAL ELECTRICAL ITEMS			\$	

^{*} Denotes Minimum Unit Price Bid for Each Item

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
MISCE	LLANEOUS ITEMS				
1.	STORMWATER POLLUTION PREVENTION PLAN COMPLIANCE, INCLUDES CONTRACTOR'S NOI, NOT, SWPPP BOOKLET, AND ALL ITEMS NOT SPECIFICALLY LISTED IN THE BID PROPOSAL, COMPLETE IN PLACE	LS	1	\$	\$
2.	INSTALL, MAINTAIN, AND REMOVE STABILIZED CONSTRUCTION ENTRANCE/EXIT, AND REGRADE AREA TO MATCH FINISHED GRADE, COMPLETE IN PLACE	EA	1	\$	\$
3.	REINFORCED FILTER FABRIC FENCE (TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER), COMPLETE IN PLACE	LF	1,884	\$	\$
4.	6" P.V.C. SLEEVES, SCHEDULE 40, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	200	\$	\$
5.	UTILITY SPOIL AND EXCAVATED MATERIALS, TO BE HAULED, SPREAD AND COMPACTED TO 98% STANDARD PROCTOR DENSITY (WITHIN PROJECT LIMITS), COMPLETE IN PLACE	LS	1	\$	\$
6.	MOBILIZATION (COST NOT TO EXCEED 5% OF TOTAL CONTRACT AMOUNT)	EA	1	\$	\$
7.	PERFORMANCE AND PAYMENT BONDS	LS	1	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
MISCE	LLANEOUS ITEMS				
8.	MAINTENANCE BOND (100% OF TOTAL CONTRACT AMOUNT, 1- YEAR DURATION, TO BE PROVIDED WITH FINAL PAY APPLICATION)	LS	1	\$	\$
9.	HYDROMULCH SEEDING OF DISTURBED AREAS (TO BE USED ONLY AT THE DISCRETION OF THE ENGINEER), COMPLETE IN PLACE	AC	2	\$. \$
10.	INSTALL, MAINTAIN, AND REMOVE CONCRETE WASHOUT AREA, COMPLETE IN PLACE	EA	1	\$	\$
SUBTO	OTAL MISCELLANEOUS ITEMS			\$	

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT			
BID ALTERNATE NO. 1 – MISCELLANEOUS ITEMS								
1.	CONTRACTOR TO PROVIDE IRRIGATION PUMP AT LAKE. INSTALLED COMPLETE. INCLUDES ALL NECESSARY APPURTENANCES SUCH AS ELECTRICAL CONNECTION, CONDUIT, BREAKER BOX, WEATHERPROOF COMPONENTS, FILTERS, PRESSURE REGULATORS, FLUSH VALVES, MASTER VALVE, ETC. IRRIGATION PUMP LOCATION TO BE DETERMINED IN THE FIELD WITH OWNER AND/OR LANDSCAPE ARCHITECT. ALL IRRIGATION COMPONENTS TO BE RATED FOR RECLAIMED WATER CONDITIONS	LS	1	\$	\$			
2.	LANDSCAPE MAINTENANCE	МО	3	\$	\$			
3.	SELECT FILL BENEATH RESTROOM AT A DEPTH OF 7' OVEREXCAVATION, INSTALLED PER BID DOCUMENTS, TO BE USED IN LIEU OF CIVIL ITEM NO. 17, COMPLETE IN PLACE	CY	258	\$	\$			
4.	SELECT FILL BENEATH PAVILION, INSTALLED COMPLETE , TO BE USED IN LIEU OF CIVIL ITEM NO. 10 AND 19 , COMPLETE IN PLACE	CY	500	\$	\$			

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CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	AMOUNT
BID AL	TERNATE NO. 1 – MISCELLANEOUS IT	EMS			
5.	3-INCH HOT MIX ASPHALTIC CONCRETE WITH 6-INCH CRUSHED STONE BASE FOR PEDESTRIAN WALKWAY, TO BE USED IN LIEU OF CIVIL ITEMS NO. 7, 9, AND 18, INCLUDES PRIME COAT, COMPLETE IN PLACE	SY	995	\$	\$
SUBTO	OTAL BID ALTERNATE NO. 1 – MISCELI	LANEOUS	3	\$	

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 2 – RESTROOM ITEMS	6			
1.	CONCRETE FOUNDATIONS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
2.	MASONRY FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
3.	STRUCTURAL STEEL FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
4.	ROUGH CARPENTRY FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
5.	FINISH CARPENTRY FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
6.	WATERPROOFING FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
7.	METAL ROOFING FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
8.	JOINT SEALANTS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
9.	PAINTING AND STAINING FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
10.	SPECIALTIES FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 2 – RESTROOM ITEMS				
11.	FIBER-CEMENT SIDING FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
12.	METAL DOORS, FRAMES, AND HARDWARE FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
13.	ALUMINUM WINDOWS AND LOUVERS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
14.	SOLID SURFACING COUNTERTOPS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
15.	PLUMBING ITEMS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
16.	ELECTRICAL ITEMS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
17.	MECHANICAL ITEMS FOR RESTROOM, INSTALLED PER PLAN, COMPLETE IN PLACE	LS	1	\$	\$
SUBTO	OTAL BID ALTERNATE NO. 2 – RESTR	IS	\$		

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 3 - HARDSCAPE ITEM	s			
1.	60' HEIGHT FLAGPOLE INCLUDING STRUCTURAL SHOP DRAWINGS, ALL HARDWARE, AND ONE (1) FLAG PER PLANS, INSTALLED COMPLETE IN PLACE	EA	1	\$	\$
2.	40' HEIGHT FLAGPOLE INCLUDING STRUCTURAL SHOP DRAWINGS, ALL HARDWARE, AND ONE (1) FLAG PER PLANS, INSTALLED COMPLETE IN PLACE	EA	2	\$	\$
3.	VEHICULAR BOLLARDS INCLUDING STRUCTURAL SHOP DRAWINGS, GROUND SLEEVE EMBEDDED IN CONCRETE, LOCK MECHANISM, AND ALL NECESSARY HARDWARE. INSTALLED COMPLETE IN PLACE	EA	16	\$	\$
4.	INSTALLATION ONLY - ADA PICNIC TABLE; OWNER TO PROVIDE FURNISHINGS; LOCATION TO BE PER PLANS; INSTALLED COMPLETE INCLUDING ALL NECESSARY HARDWARE	EA	1	\$	\$
5.	INSTALLATION ONLY - PICNIC TABLE; OWNER TO PROVIDE FURNISHINGS; LOCATION TO BE PER PLANS; INSTALLED COMPLETE INCLUDING ALL NECESSARY HARDWARE	EA	2	\$	\$
6.	INSTALLATION ONLY – BENCHES; OWNER TO PROVIDE FURNISHINGS; LOCATION TO BE PER PLANS; INSTALLED COMPLETE INCLUDING ALL NECESSARY HARDWARE	EA	2	\$. \$

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CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT		
BID A	BID ALTERNATE NO. 3 - HARDSCAPE ITEMS						
7.	INSTALLATION ONLY – TRASH RECEPTACLE; OWNER TO PROVIDE FURNISHINGS; LOCATION TO BE PER PLANS; INSTALLED COMPLETE INCLUDING ALL NECESSARY HARDWARE	EA	2	\$	\$		
SUBTOTAL BID ALTERNATE NO. 3 - HARDSCAPE ITEMS				\$			

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 4 - LANDSCAPE ITEMS	3			
1.	POINT OF CONNECTION INCLUDING TAP, BACKFLOW PREVENTER, SECURITY CAGE, AND MASTER VALVE, INSTALL COMPLETE	LS	1	\$	\$
2.	IRRIGATION CONTROLLER INCLUDING ELECTRICAL, WIRING, RAIN SENSOR AND MOUNTING, COMPLETE IN PLACE AND OPERATIONAL	LS	1	\$	\$
3.	2" MAINLINE, INSTALL COMPLETE	LF	180	\$	\$
4.	QUICK COUPLER VALVE, INSTALL COMPLETE	EA	2	\$	\$
5.	TREE BUBBLER ZONE, INCLUDING CONTROL VALVE, VALVE BOX, LATERAL PIPING, FITTINGS, BUBBLERS, WIRING AND ALL NECESSARY MATERIAL, INSTALL COMPLETE	EA	1	\$	\$
6.	SHRUB SPRAY ZONE, INCLUDING CONTROL VALVE, VALVE BOX, LATERAL PIPING, FITTINGS, WIRING AND ALL NECESSARY MATERIAL, INSTALL COMPLETE	EA	3	\$	\$
7.	6" IRRIGATION SLEEVES, INSTALLED COMPLETE	LF	110	\$	\$
8.	CRAPE MYRTLE MULTI-TRUNK, 65 GAL. INSTALLED COMPLETE	EA	14	\$	\$
9.	BICOLOR IRIS, 3 GAL. INSTALLED COMPLETE	EA	132	\$	\$
10.	PINK MUHLY GRASS, 3 GAL. INSTALLED COMPLETE	EA	76	\$	\$

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CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 4 - LANDSCAPE ITEMS	3			
11.	MEXICAN FEATHER GRASS, 1 GAL. INSTALLED COMPLETE	EA	358	\$	\$
12.	KNOCKOUT SHRUB ROSE, 3 GAL. INSTALLED COMPLETE	EA	41	\$	\$
13.	ASIAN JASMINE, 4" CONT. INSTALLED COMPLETE	EA	287	\$	\$
14.	SOCIETY GARLIC, 3 GAL. INSTALLED COMPLETE	EA	136	\$	\$
15.	LANDSCAPE BED PREPARATION	SF	3,132	\$	\$
16.	2" THICK HARDWOOD MULCH, INSTALLED COMPLETE	CY	20	\$	\$
17.	6" PLANTING SOIL MIX, INSTALLED COMPLETE	CY	60	\$	\$
18.	BERMUDA GRASS – SOD	SF	26,539	\$	\$
19.	STEEL EDGING, INSTALLED COMPLETE	LF	296	\$	\$
20.	WAX MYRTLE, 15 GAL. INSTALLED COMPLETE	EA	6	\$	\$
21.	LANDSCAPE BOULDERS, INSTALLED COMPLETE	TON	5	\$	\$
22.	RIVER ROCK GRAVEL, INSTALLED COMPLETE	CY	10	\$	\$
SUBTOTAL BID ALTERNATE NO. 4 - LANDSCAPE ITEMS				\$	

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	LTERNATE NO. 5 – SEPTIC SYSTEM IT	TEMS			
1.	2" SDR-26 P.V.C. SANITARY SEWER FORCE MAIN, PER ASTM D2241, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	1,096	\$	\$
2.	1 ½" P.V.C. SANITARY SEWER PIPE, SCHEDULE 40, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	90	\$	\$
3.	3/4" P.V.C. SANITARY SEWER PIPE, SCHEDULE 40, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	482	\$	\$
4.	P30 - 1 HP IRRIGATION PUMP, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LS	1	\$	\$
5.	2,000 GALLON PRETREATMENT TANK, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LS	1	\$	\$
6.	2,000 GALLON DOSING TANK IHP PROVORE, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LS	1	\$	\$
7.	1,000 GALLON TREATMENT PLANT, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	EA	2	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 5 – SEPTIC SYSTEM IT	ГЕМЅ			
8.	2,000 GALLON IRRIGATION PUMP TANK, INCLUDES BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LS	1	\$	\$
9.	K-RAIN PROPLUS RCW AEROBIC SEPTIC SYSTEM SPRINKLER HEAD, MULTIPLE LOCATIONS PER PLAN, COMPLETE IN PLACE	EA	8	\$	\$
10.	BORE AND JACK OR AUGER FOR 2" SANITARY SEWER LINE, COMPLETE IN PLACE	LF	44	\$	\$
11.	SANITARY SEWER TRENCH SAFETY SYSTEM, ALL DEPTHS, COMPLETE IN PLACE	LF	1,698	\$	\$
12.	4" SDR-26 P.V.C. SANITARY SEWER PIPE, PER ASTM D2241, INCLUDES FITTINGS, BEDDING AND BACKFILL, ALL DEPTHS, COMPLETE IN PLACE	LF	30	\$	\$
SUBTOTAL BID ALTERNATE NO. 5 – SEPTIC SYSTEM ITEMS				\$	

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 6 – ELECTRICAL ITEM	IS			
1.	LIGHT POLE TYPE A INSTALLED IN PARKING LOT PAVED AREA, INCLUDES CONCRETE FOUNDATIONS AND SAWCUTTING AND REMOVAL OF ASPHALT PAVING AND REPLACING WITH A 4'X4' PAD, 7" THICK CONCRETE PAVING INCLUDING EXPANSION JOINTS AND REINFORCEMENT, INSTALLED COMPLETE AND OPERATIONAL	EA	3	\$	\$
2.	LIGHT POLE TYPE A INSTALLED IN GRASS AREA, INCLUDES CONCRETE FOUNDATION INSTALLED COMPETE AND OPERATIONAL	EA	1	\$. \$
3.	ALL ELECTRICAL CONDUIT (ADDITIONAL CONDUIT TO CONNECT TO EXISTING CONDUITS) AND WIRING FOR LIGHT POLE NO. 1, 2, 3 & 4, IN PLACE, ABOVE GROUND AND UNDERGROUND INCLUDING GROUNDING, INSTALLED COMPLETE AND OPERATIONAL	LS	1	\$	\$
4.	ALL ELECTRICAL CONDUIT AND WIRING FOR LIGHT POLE NO. 5, 6, 7, 8 & 9, IN PLACE, ABOVE GROUND AND UNDERGROUND INCLUDING GROUNDING, INSTALLED COMPLETE AND OPERATIONAL	LS	1	\$	\$
5.	FLAGPOLE LIGHTS, INSTALLED, COMPLETE AND OPERATIONAL	EA	6	\$	\$

^{*} Denotes Minimum Unit Price Bid for Each Item

CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

NO.	ITEM DESCRIPTION	UNIT	QTY.	UNIT PRICE	TOTAL AMOUNT
BID AL	TERNATE NO. 6 - ELECTRICAL ITEMS	3			
6.	ALL ELECTRICAL CONDUIT AND WIRING FOR FLAG POLE LIGHTS, IN PLACE, ABOVE GROUND AND UNDERGROUND INCLUDING GROUNDING, INSTALLED COMPLETE AND OPERATIONAL	LS	1	1 \$	\$
SUBTO	OTAL BID ALTERNATE NO. 6 – ELECTR	RICAL ITE	MS	\$	

Contractor is required to bid Alternate Bid. OWNER retains the right to evaluate the bid based on the base bid alone, considering one Alternate or more than one Alternate, whichever is deemed most advantageous to the OWNER.

^{*} Denotes Minimum Unit Price Bid for Each Item

CONSTRUCTION OF THE
LAKE TAWAKONI TOURNAMENT FACILITY
ARCHITECTURAL AND UTILITIES
SABINE RIVER AUTHORITY
CITY OF WILLS POINT
VAN ZANDT COUNTY, TEXAS
LJA JOB NO. B883-1015C

PROPOSAL BIDDING SUMMATION

SUBTOTAL ARCHITECTURAL ITEMS	\$	
SUBTOTAL CIVIL ITEMS	\$	
SUBTOTAL ELECTRICAL ITEMS	\$	
SUBTOTAL MISCELLANEOUS ITEMS	\$	
TOTAL AMOUNT BASE BID	\$	
SUBTOTAL BID ALTERNATE NO. 1 - MISCELLANEOUS ITEMS	\$	
DEDUCT CIVIL ITEM NO. 7	<\$ <u></u>	>
DEDUCT CIVIL ITEM NO. 9	<\$ <u></u>	>
DEDUCT CIVIL ITEM NO. 10	<\$ <u> </u>	>
DEDUCT CIVIL ITEM NO. 17	<\$ <u></u>	>
DEDUCT CIVIL ITEM NO. 18	<\$	>
DEDUCT CIVIL ITEM NO. 19	<\$	>
NET TOTAL BID ALTERNATE NO. 1 – MISCELLANEOUS ITEMS	\$	
SUBTOTAL BID ALTERNATE NO. 2 - RESTROOM ITEMS	\$	
SUBTOTAL BID ALTERNATE NO. 3 - HARDSCAPE ITEMS	\$	
SUBTOTAL BID ALTERNATE NO. 4 - LANDSCAPE ITEMS	\$	
SUBTOTAL BID ALTERNATE NO. 5 - SEPTIC SYSTEM ITEMS	\$	
SUBTOTAL BID ALTERNATE NO. 6 – ELECTRICAL ITEMS	\$	

It is understood that in the event the successful bidder fails to enter into the Contract and to furnish a Performance Bond and Payment Bond in the amount of 100 percent of the Contract and for all parts of the work, as specified in the Instructions to Bidders, the Bidder will forfeit the Certified or Cashier's Check, OR Bid Bond, as provided in the Contract Documents.

CONSTRUCTION OF THE LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES SABINE RIVER AUTHORITY CITY OF WILLS POINT VAN ZANDT COUNTY, TEXAS LJA JOB NO. B883-1015C

The undersigned proposes, if awarded the Contract, to begin work as stipulated in the written Notice to Proceed issued by the Engineer, and to substantially complete the work within $\underline{180}$ calendar days after the date of the written Notice to Proceed and to complete the project within $\underline{210}$ calendar days after the date of the written Notice to Proceed.

This bid proposal shall be considered part of the contract.

(Signature)	(Company N	(Company Name – Bidder)		
(Type Name)	(Address)			
(Title)	(City)	(County)	(Zip)	
(Attest)	(Phone No.))		
(Seal, If Bidder is a Corporation)	(E-mail Add	ress)		

CONSTRUCTION OF THE
LAKE TAWAKONI TOURNAMENT FACILITY
ARCHITECTURAL AND UTILITIES
SABINE RIVER AUTHORITY
CITY OF WILLS POINT
VAN ZANDT COUNTY, TEXAS
LJA JOB NO. B883-1015C

ACKNOWLEDGMENT OF RECEIPT OF ADDENDUM

ADDENDUM NO. 1		<u> </u>
	Signature	Date
ADDENDUM NO. 2		
	Signature	Date
ADDENDUM NO. 3		_
	Signature	Date
ADDENDUM NO. 4		
	Signature	Date
ADDENDUM NO. 5		
	Signature	Date
ADDENDUM NO. 6		
	Signature	Date

SECTION 09 9113 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Primers.
 - 2. Finish coatings.
- B. Related Requirements:
 - 1. Section 05 1200 "Structural Steel Framing" for shop priming of metal substrates.
 - 2. Section 05 5000 "Metal Fabrications" for shop priming metal fabrications.
 - 3. Section 09 9300 "Staining and Transparent Finishing" for surface preparation and application of wood stains and transparent finishes on exterior wood substrates.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include preparation requirements and application instructions.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product.
- C. Samples for Verification: For each type of paint system and each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches (200 mm) square.
 - 2. Apply coats on Samples in steps to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- D. Product Schedule: Use same designations indicated on Drawings and in the Exterior Painting Schedule to cross-reference paint systems specified in this Section. Include color designations.

1.4 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Paint Products: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F (10 and 35 deg C).
- B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F (3 deg C) above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Behr Paint Company; Behr Process Corporation.
 - 2. Benjamin Moore & Co.
 - 3. Kelly-Moore Paint Company Inc.
 - 4. PPG Paints.
 - 5. Pratt & Lambert.
 - 6. Sherwin-Williams Company (The).
 - 7. Valspar Corporation (The).
- B. Source Limitations: Obtain each paint product from single source from single manufacturer.

2.2 PAINT PRODUCTS, GENERAL

- A. Material Compatibility:
 - 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer based on testing and field experience.
 - 2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturer for use in paint system and on substrate indicated.
- B. Colors: As indicated in a color schedule.

1. 30 percent of surface area will be painted with deep tones.

2.3 PRIMERS

- A. Exterior, Alkali-Resistant, Water-Based Primer: Pigmented, water-based primer formulated for use on alkaline surfaces, such as exterior plaster, vertical concrete, and masonry.
- B. Exterior, Alkyd/Oil Wood Primer: Alkyd/oil-based primer that is resistant to extractive bleeding when applied to wood substrates with less than 15 percent moisture content; formulated for sag, mold, and microbial resistance; for hiding stains; and for use on exterior wood subject to extractive bleeding.
- C. Zinc-Rich, Inorganic Primer: Corrosion-resistant, inorganic-based, zinc-rich primer formulated for use on prepared steel subject to severe industrial or marine environments.
- C.D. Alkyd Metal Primer: Corrosion-resistant, solvent-based, alkyd primer formulated for use on prepared ferrous metals subject to industrial and light marine environments.
- D.E. Water-Based, Galvanized-Metal Primer: Corrosion-resistant, pigmented, acrylic primer; formulated for use on cleaned/etched, exterior, galvanized metal to prepare it for subsequent water-based coatings.

2.4 FINISH COATINGS

- A. Exterior Latex Paint, Low Sheen: Water-based, pigmented coating; formulated for alkali, mold, microbial, and water resistance and for use on exterior surfaces, such as portland cement plaster, concrete, and primed wood.
 - 1. Gloss and Sheen Level: Gloss of 10 to 35 units at 60 degrees and minimum sheen of 10 units at 85 degrees when tested in accordance with ASTM D523.
- B. Exterior, Water-Based, Light Industrial Coating, Low Sheen: Corrosion-resistant, water-based, pigmented, emulsion coating formulated for resistance to blocking (sticking of two painted surfaces), water, alkalis, moderate abrasion, and mild chemical exposure and for use on exterior, primed, wood and metal surfaces.
 - 1. Gloss and Sheen Level: Gloss of 10 to 25 units at 60 degrees and sheen of 10 to 35 units at 85 degrees when tested in accordance with ASTM D523.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Fiber-Cement Board: 12 percent.
 - 2. Wood: 15 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility, with finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions applicable to substrates and paint systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems specified in this Section.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer[.] but not less than the following:
 - 1. SSPC-SP 2.
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.
- F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- G. Wood Substrates:
 - 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
 - 2. Sand surfaces that will be exposed to view, and remove sanding dust.
 - 3. Prime edges, ends, faces, undersides, and backsides of wood.

4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.3 INSTALLATION

- A. Apply paints in accordance with manufacturer's written instructions.
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
 - 3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in the Exterior Painting Schedule may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.
- B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
 - 1. Paint the following work where exposed to view:
 - a. Equipment, including panelboards and switch gear.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written instructions, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written instructions.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
 - 1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
 - 2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
 - 3. Allow empty paint cans to dry before disposal.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE

- A. Steel and Iron Substrates:
 - Water-Based, Light Industrial Coating System:
 - a. Prime Coat: Alkyd metal primer Zinc-rich, inorganic primer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Exterior, water-based, light industrial coating, low sheen.
- B. Galvanized-Metal Substrates:
 - 1. Water-Based, Light Industrial Coating System:
 - a. Prime Coat: Water-based, galvanized-metal primer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Exterior, water-based, light industrial coating, low sheen.
- C. Exposed Wood-Framing Substrates:
 - 1. Latex over Alkyd Primer System:
 - a. Prime Coat: Exterior, alkyd/oil wood primer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Exterior latex paint, low sheen.
- D. Cementitious Composition Board Substrates: Trim and Panels.

- 1. Latex over Alkyd Primer System:
 - a. Prime Coat: Exterior, alkali-resistant, water-based primer.
 - b. Intermediate Coat: Matching topcoat.
 - c. Topcoat: Exterior latex paint, low sheen.

END OF SECTION 09 9113

3.7 EXTERIOR COLOR SCHEDULE

- A. Steel and Iron Substrates:
 - 1. Exposed Structural Steel:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 2. Exposed Miscellaneous Steel:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
- B. Galvanized-Metal Substrates:
 - 1. Exposed Structural Steel:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 2. Exposed Miscellaneous Steel:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 3. Exterior Doors:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 4. Electrical Meter Can, Switchgear, Panels, and Exposed Conduit:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 5. Exposed Loose Lintels:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 6. Exposed Access Panels:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
 - 7. Bollards:
 - a. "Yellow" complying with OSHA 1910.144(a)(3).

- C. Exposed Wood-Framing Substrates:
 - 1. Exposed Tongue & Groove Wood Deck:
 - a. Clear sealer, as specified in Section 09 9300 "Staining and Transparent Finishing."
 - 2. Wood Trim:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."
- D. Cementitious Composition Board Substrates: Trim and Panels.
 - 1. Fiber Cement Panels and Trim:
 - a. Paint to match Sherwin Williams SW 7675 "Sealskin."

END OF SECTION 09 9113



8/16/2021

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Conduit, fittings, and bodies.

1.02 REFERENCES

- A. American National Standards Institute (ANSI):
 - 1. ANSI C 80.1 Rigid Steel Conduit Zinc Coated.
 - 2. ANSI C 80.4 Fittings for Rigid Metal Conduit.
- B. Federal Specifications:
 - 1. W-C-58 C Conduit Outlet Boxes, Bodies Aluminum and Malleable Iron.
 - 2. W-C-1094 Conduit and Conduit Fittings Plastic, Rigid.
 - 3. WW-C-566 C Flexible Metal Conduit.
 - 4. WW-C-581 D Coatings on Steel Conduit.
- C. National Electrical Manufacturers Association (NEMA):
 - 1. NEMA RN 1 Polyvinyl-Chloride Externally Coated Galvanized Rigid Steel Conduit and Electrical Metallic Tubing.
 - 2. NEMA TC 2 Electrical Plastic Tubing (EPT) and Conduit (EPC-40 and EPC-80).
 - 3. NEMA TC 3 PVC Fittings for Use with Rigid PVC Conduit and Tubing.
- D. National Fire Protection Association (NFPA), ANSI/NFPA 70 National Electrical Code (NEC).
- E. Underwriters' Laboratories (UL):
 - 1. UL 1 Flexible Metal Electrical Conduit.
 - 2. UL 6 Rigid Metal Electrical Conduit.
 - 3. UL 514 B Fittings for Conduit and Outlet Boxes.

- 4. UL 651 Schedule 80 Rigid PVC Conduit.
- 5. UL 651 A Type EB and A Rigid PVC Conduit and HDPE Conduit.
- 6. UL 886 Electrical Outlet Boxes and Fittings for Use in Hazardous Locations.
- F. 2011 National Electrical Code

1.03 SUBMITTALS

- A. Make submittals following Section 01330 Submittal Procedures:
 - 1. Manufacturer's cut sheets, catalog data.
 - 2. Installation, terminating and splicing procedure.
 - 3. Instruction for handling and storage.
 - 4. Dimensions and weight of products.
 - 5. Code compliance certificates.
 - 6. Conformance certificate.

1.04 QUALITY ASSURANCE

- A. Rigid steel conduit shall pass the bending, ductility, and thickness of zinc coating tests described by ANSI C 80.1.
- B. Flexible conduit shall pass the tension, flexibility, impact, and zinc coating test described by UL 1.
- C. Nonmetallic conduit and fittings shall pass the test requirements of NEMA TC 2, UL 651 and 651 A and Federal Specification W-C-1094 A.

1.05 DELIVERY STORAGE AND HANDLING

- A. Package conduit in 10-foot bundles maximum with conduit and coupling thread protectors suitable for indoor and outdoor storage. Package fittings in manufacturer's standard quantities and packaging suitable for indoor storage. Package plastic-coated rigid conduit, fittings, and bodies in such a manner as to protect the coating from damage during shipment and storage.
- B. Store conduit above ground on racks to prevent corrosion and entrance of debris.
- C. Protect plastic conduit from sunlight.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Rigid Steel Conduit:
 - 1. Allied Tube and Conduit.
 - 2. Triangle Wire and Cable, Inc.
 - 3. Wheatland Tube Company.
- B. PVC Coated Steel Conduit:
 - 1. Occidental Coating Company (O-Cal Blue).
 - 2. Robroy Industries, Inc.
 - a. Rob-Roy Red
 - b. Plasti-Bond Red
 - c. Perma-Cote Green
- C. PVC Rigid Conduit:
 - 1. Cantex.
 - 2. Carlon Industries, Inc.

- D. Conduit Fittings and Bodies:
 - 1. Appleton Electric.
 - 2. Crouse-Hinds.
 - 3. Killark Electric Manufacturing Company.
 - 4. O-Z/Gedney.
- E. Liquidtight Flexible Conduit:
 - 1. Anamet, Inc.
 - 2. Electriflex Company.
 - 3. Triangle Wire and Cable, Inc.

2.02 MATERIALS AND EQUIPMENT

- A. Design Conditions. Use electrical conduit, fittings, and bodies designed for service in areas as specified in Section 16010 Basic Electrical Requirements and this section to form a continuous support system for power, control, and instrument cables or any combination thereof.
- B. Conduit and Fittings:
 - 1. Rigid Steel Conduit and Fittings.
 - a. Rigid steel conduit and rigid steel conduit bends, nipples, and bodies shall be hot-dipped galvanized and shall comply with the latest ANSI C 80.1, UL 6, Federal Specification WW-C-581 D, and NEC Article 346-15.
 - b. Mild steel tubing shall be used for conduit, nipples, and couplings, and shall be free of defects on both the inner and outer surfaces.
 - c. Fittings and bodies and covers for rigid steel conduit shall be steel or castiron and shall comply with ANSI C 80.4, UL 514 B, and Federal Specification W-C-58 C. All fittings shall be Form 8. All covers for conduit fittings shall be attached using stainless steel screws. Wedge fitting type conduit covers shall not be used.

2. PVC-Coated Rigid Steel Conduit and Fittings

- a. PVC-coated conduit, fittings, bodies, and covers shall conform to NEMA RN 1 (Type A). Rigid steel galvanized conduit and fittings shall conform to Federal Specifications WW-C-581 D and ANSI C 80.1. PVC-coated rigid metal conduit must be UL listed with PVC as the primary corrosion protection. Conduit bodies shall conform to UL 514 B and Federal Specification W-C-58 C. PVC-coated fittings for general service locations must be UL listed with the PVC as the primary corrosion protection. Provide sufficient coating for touch-up after installation.
- b. PVC-coated couplings shall be of the ribbed type.
- c. Condulet covers shall have encapsulated stainless steel thumb screws no wedge clip type closures.
- d. Condulets and covers shall be of malleable iron or ferroalloy material before coating. All fittings shall be Form 8. All covers shall be attached as required for rigid galvanized steel conduit.
- e. Urethane coating shall be a minimum of 2 mil thickness on the interior of the conduit and the interior of fittings, condulets, covers, and bodies.
- 3. Flexible and Liquidtight Flexible Metal Conduit and Fittings
 - a. Use liquidtight flexible metal conduit manufactured in accordance with UL 1 and Federal specification WW-C-566 C.
 - b. Maximum length of this type of conduit shall be no longer than twelve (12) times the conduit diameter. Thoroughly ground the conduit to the fittings and through the fittings to the box or enclosure to which it is attached.
 - c. Flexible couplings and fittings for use in hazardous areas shall comply with UL 886, NEC Article 501-4 (a&b), and Federal Specification W-C-586 C.
- 4. PVC Conduit and Fittings. Use PVC conduit, bends, and fittings, which comply with NEMA TC 2, W-C-A, and NBC Article 347-17 for above ground and underground installation. Conduit shall be Schedule 80 in the horizontal runs of underground conduit banks.

PART 3 EXECUTION

3.01 PREPARATION

- A. Ensure that the conduit system to be installed is sized properly for the cable and wire requirements.
- B. Verify the actual physical conduit route from the conduit plan drawings and prepare the conduit support system.
- C. Verify the equipment locations to which the conduit will be connected and determine detail requirements for connections.

3.02 INSTALLATION

- A. Install rigid galvanized steel conduit and fittings in all above ground locations.
- B. Install PVC conduits in underground duct banks.
- C. Install PVC coated rigid galvanized steel conduit for all underground bends greater than thirty (30) degrees, all vertical risers from the underground conduits to above grade, all spare conduit extensions, and all conduit penetrations through finished grade, concrete slabs, concrete sidewalks, etc. This PVC coated rigid galvanized steel conduit shall extend no less than one (1) foot above finished grade or the top of concrete.
- D. Run exposed conduit parallel or perpendicular to walls, ceilings or main structural members. Group multiple conduits together where possible. Conduit shall not interfere with the use of passageways, doorways, overhead cranes, monorails, equipment removal areas or working areas. In no case shall conduit routing present a safety hazard, trip hazard, or interfere with normal plant operating and maintenance procedures. A minimum overhead clearance of 8 feet shall be maintained in passageways. All conduits installed across walkways shall have concrete or aluminum trip plates installed.
- E. Installation and support of conduit shall be from steel or concrete structures in accordance with the standard detail drawings. Furnish necessary conduit straps, clamps, fittings and support for the conduit in accordance with the standard details.
- F. Identify conduit at termination points like MCC, light fixtures, control panels, receptacles, panels, and junction boxes.
- G. Not more than 3 equivalent 90-degree bends will be permitted between outlets. Provide bonded expansion fittings at building expansion joints.
- H. Install conduit runs so that they are mechanically secure, mechanically protected from physical harm, electrically continuous, and neat in appearance. The interiors of conduit

shall provide clean, smooth raceways through which conductors may be drawn without damage to the insulation. Make threaded connections wrench tight.

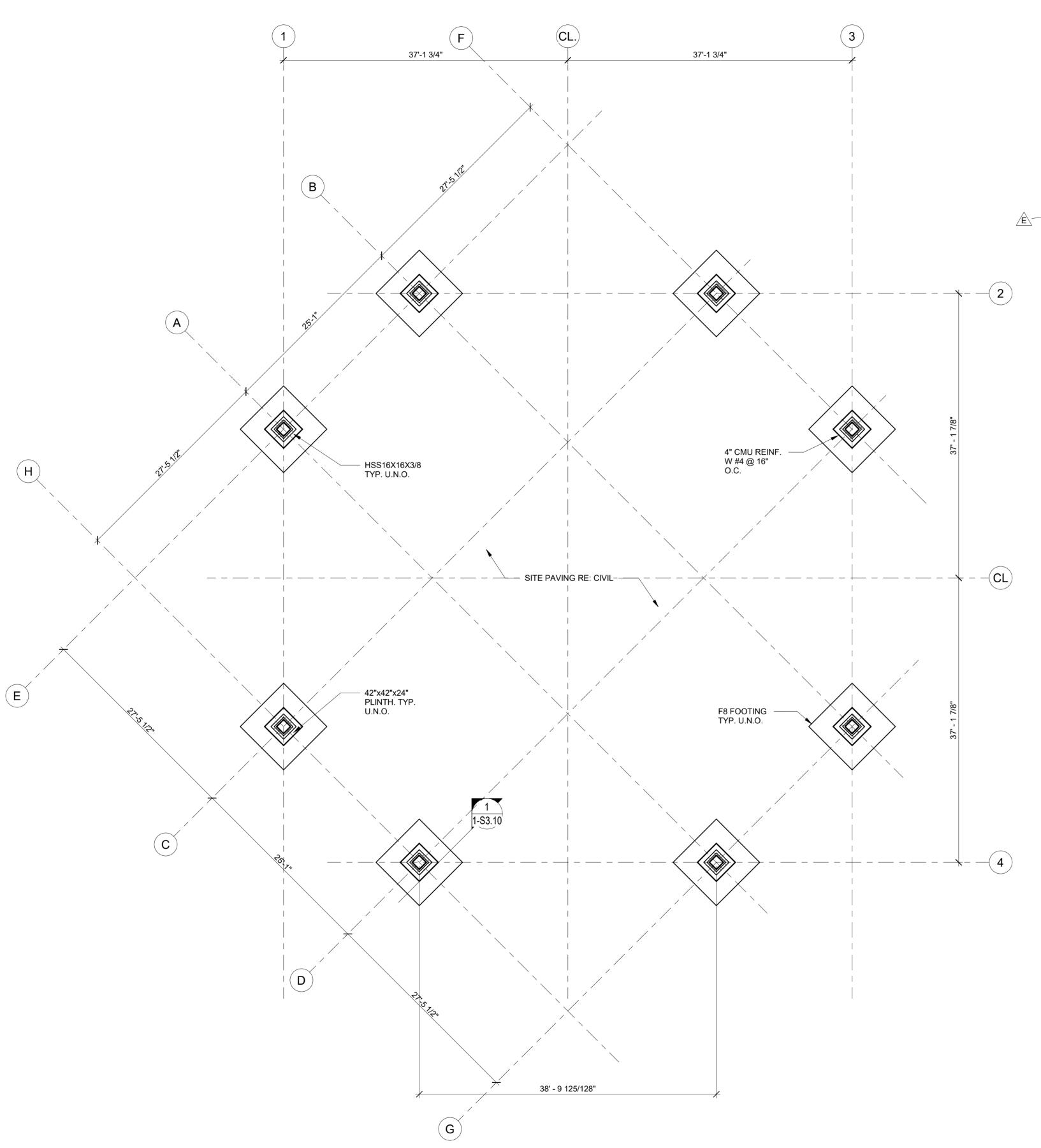
- I. Cut conduit square with a power saw or a rotary type of conduit cutter designed to leave a flat face. Do not use plumbing pipe cutters for cutting conduit. Ream the cut ends of conduit with a reamer, designed for the purpose to eliminate rough edges and burrs. Threads shall be cut with standard conduit dies providing 3/4-inch taper per foot, allowing the proper length so that joints and terminals may be made up tight and the ends of the conduit not deformed. Keep dies sharp and use a good quality threading oil continuously during the threading operation. Remove metal cuttings and oil from the conduit ends after the threads are cut and paint threads before connections are made. Use non-corrosive Carbozinc No. 11 as manufactured by the Carboline Company, coal tar enamel or zinc rich epoxy primer on the threads of steel conduit before connections are made.
- J. Use strap wrenches only to tighten joints in plastic coated rigid steel conduit. Replace all conduit and fittings with damage to the plastic coating, such as cuts, nicks and threader chuck jaw marks. Use a solvent, or the same patching material to seal around the edges of conduit fitting sleeves.
- K. Make up changes in direction of conduit using elbows or fittings. Do not use pull boxes to make direction changes unless specifically designated otherwise.
- L. Field fabricated bends shall be free of indentations or elliptical sections. The radius of the bend shall not be less than 12 times the smallest diameter of the raceway.
- M. Protect all conduit terminations from mechanical injury. Prevent the entry of moisture and foreign matter into the conduit system by properly capping terminations.
- N. Avoid trapped runs of conduit, if possible. When they are necessary, provide drainage using a "tee" condulet equipped with a drain. Conduit is likely to pass through areas with a temperature differential of 20 F or more. Seal penetrations with a proper seal fitting at the wall or barrier between such areas. For conduit passing through walls separating pressurized areas from non-pressurized areas, install sealing fittings at the wall on the non-pressurized side.
- O. Fit all conduit crossing building or structure expansion joints with approved expansion fittings, except that fittings will not be required when conduit crossing an expansion joint is supported on trapeze hangers in such a way that at no time will the conduit be under stress due to expansion. Install bonding jumpers around expansion joint fittings.
- P. Where conduit terminates in sheet metal enclosures and where no threaded hubs are provided, fit the conduit with hubs such as manufactured by Myers. All hubs of this nature shall be equipped with auxiliary grounding lugs. These grounding lugs shall be interconnected to the facility grounding system through a dedicated wiring connection. Sheet metal enclosures made of stainless steel or aluminum located outside or in any

other wet, damp, or corrosive areas shall be furnished with PVC-coated threaded hubs. Restrict side penetrations to the lower one third of the enclosure.

- Q. Provide flexible liquidtight metallic conduit where necessary to allow for movement or to localize sound or vibration, at transformers, at motors and any other rotating equipment. Flexible metal conduit shall be used as fixture whips only inside an air-conditioned building.
- R. Seal all openings or holes where conduits pass through walls or floors. When passing through a firewall or floor, use a fire-rated seal per the typical detail included in the Drawings. Certain walls, as indicated on the drawings, require environmental (air-tight) seals; seal as indicated on the Drawings.
- S. Install explosion-proof seals in conduit runs crossing or entering a hazardous classified area (as shown on Drawings). Install type CSBE removable sealing fittings to seal pump cables between wet well and first junction box. If a junction box is not used, install the CSBE seals at the wet well and the control panel.
- T. Unless otherwise indicated on Drawings install expansion fittings every 300 feet within a straight conduit run and where conduit crosses building expansion joints, using bonding straps to ensure grounding continuity.
- U. Parallel runs of conduit may be supported by structural steel racks. When two or more racks are arranged one above the other, provide vertical separation of not less than 12 inches between racks, unless otherwise indicated on Drawings. Space conduits on the racks at least enough to provide 1/4-inch clearance between hubs on adjacent conduits at terminations and to allow room for fittings.
- V. Fill conduit racks no more than 75 percent of their capacity, providing usable space for future conduit. To ensure this, conduits leaving the rack horizontally shall be offset up or down so that future conduits may be installed in the space remaining. Construct conduit racks to permit access for wire or cable pulling at all pull points, even when future conduits are added to fill the racks.
- W. Where conduit racks are supported on rods from beam clamps or by some other non-rigid suspension system, install rigid supports at no more than 50-foot intervals to give lateral stability to the rack.
- X. Conduit racks or hangers must in no way interfere with machinery (or its operation), piping, structural members, process equipment, or access to anticipated future equipment. Refer to architectural, structural, equipment layout and piping drawings to ensure that this requirement is met. Label high voltage conduit with the circuit phase-to-phase voltage by means of a firmly attached tag or label of approved design at each conduit termination, on each side of walls or barriers pierced and at intervals not exceeding 200 feet along the entire length of the conduit.

- Y. Support conduit sizes 2 inches and larger at spacings not exceeding 10 feet and conduit sizes 1-1/2 inches and smaller at spacings not exceeding 8 feet.
- Z. The means of fastening conduit to supports shall be: by one-hole malleable iron conduit straps secured by wood screws to wood and by bolts with expansion anchors to concrete or masonry; by "Korn" clamps or U-bolts to other surfaces. Use "clamp backs" when strapping conduits to walls, column faces, or other such surfaces.
- AA. Support conduit runs with conduit clamps, hangers, straps and metal framing channel attached to structural steel members. Conduits of 1-1/2-inch size or less may be supported by one-hole conduit straps on concrete, tile or steel work, but for larger size conduit, 2-hole straps shall be used. Use clamps of galvanized malleable iron for rigid galvanized conduit and stainless steel for PVC-coated conduit. Metal framing channel straps used for PVC-coated conduit shall be stainless steel.
- BB. Install conduits supported form building walls with at least 1/4-inch clearance from the wall to prevent the accumulation of dirt and moisture behind conduit.

END OF SECTION



FOUNDATION PLAN NOTES 1. REFERENCE FINISH FLOOR ELEVATION = 0'-0" FINISH FLOOR ELEVATION = RE: HSS4x4x1/4 (example) DENOTES COLUMN SIZE F1 (example) INDICATES SPREAD FOOTING TYPE. SEE FOOTING SCHEDULE FOR SIZE AND REINF. 3. SITE SLAB RE: CIVIL 4. TOP OF FOOTING ELEVATION = - 2'-0". (TYPICAL UNLESS NOTED OTHERWISE) 5. REFER TO SHEET S0.00 & S0.01 FOR STRUCTURAL NOTES. REFER TO SHEET S3.00 FOR ANCHOR BOLT AND BASE PLATE DETAILS. 6 ALL THE STRUCTURAL STEEL ON THE INTERIOR OF THE BUILDING SHALL BE SHOP PRIMED. REFER TO THE SPECIFICATIONS. Issue

Description 04-30-2021 50% CD 05-28-2021 90% CD 07-14-2021 ISSUE FOR BID 08-09-2021 ADDENDUM #2 08-13-2021 ADDENDUM #3





PROJECT TEAM

Studio Red Architects Stuctural Engineer Fractal Stuctural Engineering Salas O'Brien Landscape Engineer Consultant 4 Name

KEY PLAN

Project Name

LAKE TAWAKONI **TOURNAMENT FACILITY** ARCHITECTURAL AND UTILITIES

Drawing Name **FOUNDATION PLAN**

SRA Project Number

Scale

As indicated

2001

Drawing Number

1-S1.01

FOUNDATION PLAN SCALE: 1/8" = 1'-0"

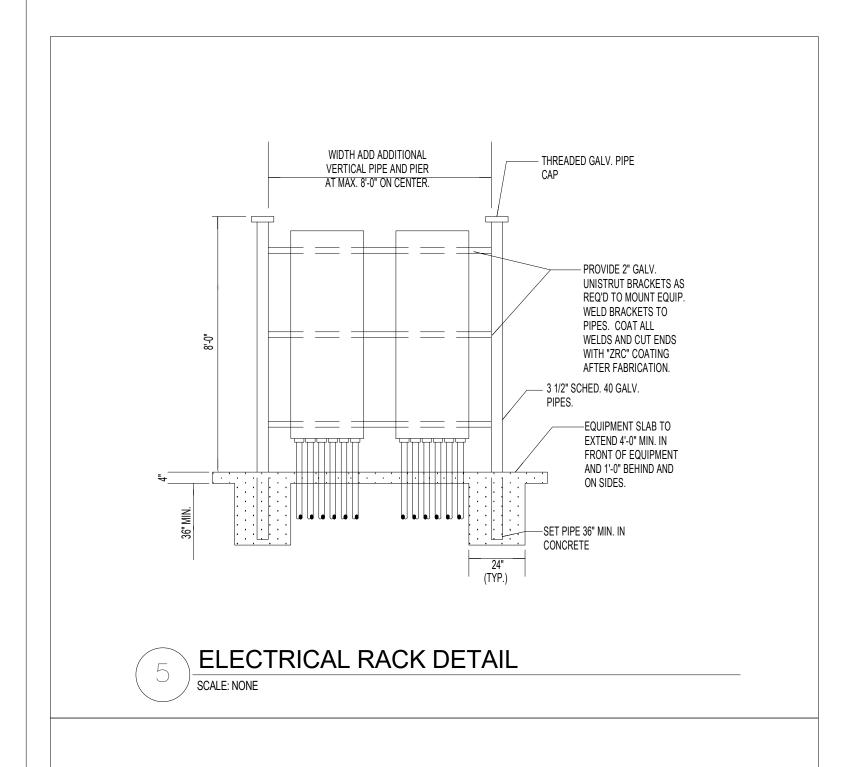
ADDENDUM #3

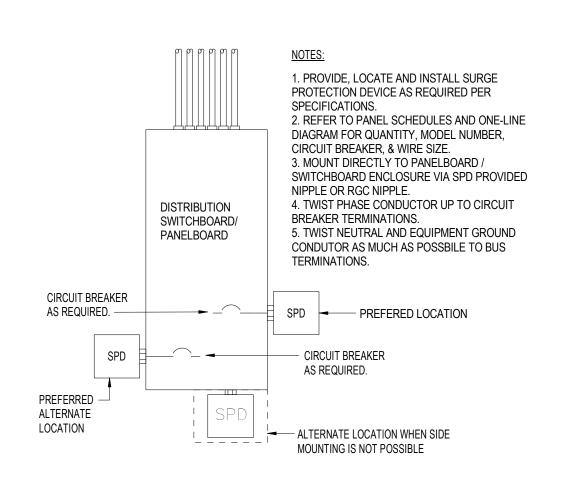
FRACTAL

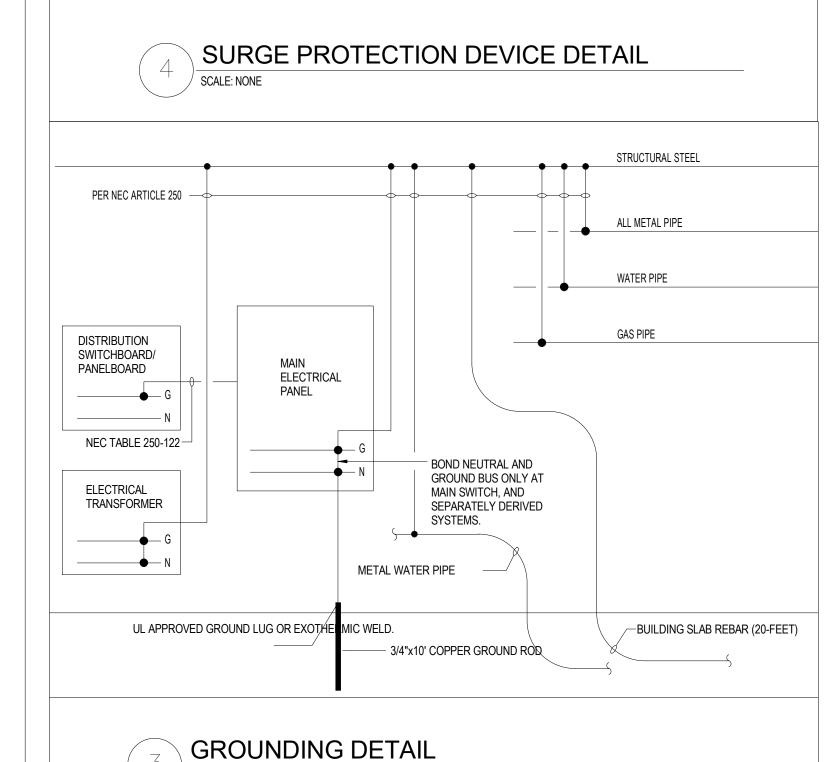
Texas Firm Registration No. F-16958

FRACTAL Project No.20-014-00 16365 Park Ten Pl. Suite 325 Houston, TX 77084 Office +1-832-404-2280

1320 mcgowen houston, texas 77004 www.studioredarchitects.com 713.622.5333







SCALE: NONE

	<u>LIGHTING FIXTURE SCHEDULE - PAVILION</u>										
		Catalog Number			D	river / Light	Engir	ne			
Туре	Manufacturer	Model	Mount Type	Туре	Wattage	Lumens	CRI	Color	Voltage	Remarks	
E2	SURE-LITES	SELDW60BKSD	SURFACE	LED	5 W	300 lm	80	3000 K		ADUSTABLE WET LOCATION LISTED COLUMN-MOUNTED EMERGENCY FLOODLIGHT.	
S3-1	USAL	VRS-CMWB-VLED-VSQ-48LED-350mA-WW-UNV-RAL-8019-T	SURFACE	LED	55 W	5381 lm	70+	3000 K	120 V	WET LOCATION LISTED BEAM MOUNTED LIGHT W/ LOW-GLARE PRISMATIC OPTICS	
S3-2	USAL	VRS-CMWB-VLED-VSQ-64LED-350mA-WW-UNV-RAL-8019-T	SURFACE	LED	71 W	7791 lm	70+	3000 K	120 V	WET LOCATION LISTED BEAM MOUNTED LIGHT W/ LOW-GLARE PRISMATIC OPTICS	
S3-3	USAL	VRS-CMWB-VLED-VSQ-100LED-350mA-WW-UNV-RAL-8019-T	SURFACE	LED	110 W	11055 lm	70+	3000 K	120 V	WET LOCATION LISTED BEAM MOUNTED LIGHT W/LOW-GLARE PRISMATIC OPTICS	
W1	LIGMAN	UVK-30041-37W-T3-W30-06-120/277v	SURFACE	LED	37 W	5073 lm	80+	3000 K	120 V	WET LOCATION LISTED ADUSTABLE BEAM MOUNTED INDIRECT FLOODLIGHT	

SHORT CIRCUIT CALCULATIONS USING POINT-TO-POINT METHOD											
EQUIPMENT	SIZE/TYPE	# OF CONDUCTORS PER PHASE IN PARALLEL	CONDUIT TYPE	LENGTH OF RUN	VOLTAGE L-L (VOLT)	AVAILABLE SYMMETRICAL FAULT CURRENT L-L (AMPS)	REMARKS				
UTILITY XFMR	are a				480V	21,300					
PANEL 'MDP'	#3/0CU	1	NON-MAGNETIC	0'	480V	21,300	.1				
PANEL 'LP'	#1/0	1	NON-MAGNETIC	350'	208V	2,351	11 -				

EQUIPMENT	SIZE/TYPE	PHASE IN PARALLEL	CONDUIT TYPE	RUN	(VOLT)	FAULT CURRENT L-L (AMPS)	REMARKS
UTILITY XFMR	are ar			(-1	480V	21,300	
PANEL 'MDP'	#3/0CU	1	NON-MAGNETIC	0'	480V	21,300	,1
PANEL 'LP'	#1/0	1	NON-MAGNETIC	350'	208V	2,351	

ALL ELECTRICAL EQUIPMENT, DEVICES, JUNCTION BOXES, OUTLETS,

VERIFY LOCATION OF ALL WIREWAYS, PANELS, ETC. WITH UTILITY

CONTRACTOR TO VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY

ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING

CONDITIONS AND THE ONE-LINE DIAGRAM SHOWN PRIOR TO

LINETYPE LEGEND

EQUIPMENT DURING FLOOD CONDITIONS.

NOTED OTHERWISE.

NEMA 3R ENCLOSURES

COMMENCEMENT OF WORK.

WORK BY OTHERS

NEW WORK

ALL CONDUCTORS TO BE COPPER THHN/THWN 75

DEG C. INSULATION TYPE UNLESS SPECIFICALLY

COMPANIES/OWNER PRIOR TO INSTALLATION.

ALL EXTERIOR EQUIPMENT TO BE IN

PANELS...ETC. SHALL BE PLACED ABOVE THE BASE FLOOD ELEVATION OR PROTECTED TO PREVENT WATER FROM ENTERING/ACCUMULATING WITHIN

ELECTRICAL LOAD ANALYSIS

LOAD KVA

2.2

(2.9)

2.9

0

13

2.4

.6

21.1

208V,3PH.,4W

LOAD DESCRIPTION

LIGHTING (CONNECTED) x 1.25 (NEC 215.2)

RECEPTACLES (CONNECTED NEC 220.44)

1ST 10KVA @100% (NEC 220.44)

REMAINDER @50% (NEC 220.44)

25% LARGEST MOTOR (25HP) (NEC 430.24)

MISCELLANEOUS (NEC 220)

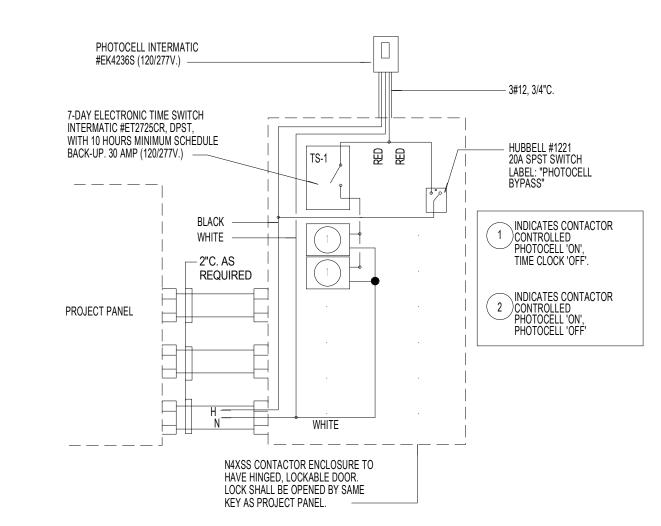
TOTAL

HVAC - FANS, AHU'S (NEC 220)

21100 / (208*^(1/3)) = 58.6 AMPS

100 AMPS SERVICE PROVIDED

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)
	LIGHT FIXTURE
	FIXTURE ON EMERGENCY CIRCUIT
HA	LIGHT FIXTURE - WALL PACK
H	LIGHT FIXTURE - WALL PACK ON EMERGENCY CIRCUIT
SWITCHES	
\$	LINE VOLTAGE SINGLE POLE SWITCH
§ T	6-HOUR TIMER SWITCH WITH NO HOLD
LIGHTING (CONTROLS
<u>\$</u>	WALL MOUNTED OCCUPANCY SENSOR, AUTO ON TO 100% / AUTO OFF.
RX	LIGHTING CONTROL TAG. ZONES AS REQUIRED. X= DENOTES CONTROL SEQUENCE, REFER TO CONTROL SCHE
RECEPTAC	LES AND OUTLETS
₽	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
ELECTRICA	AL EQUIPMENT
	ELECTRICAL DISTRIBUTION OR PANELBOARD
	DRY TYPE TRANSFORMER
CIRCUITING	3
	CONDUIT
	CONDUIT BELOW FLOOR, SLAB, OR GRADE
- Z ► - ►	3/4"C. UNLESS OTHERWISE NOTED; LONG HATCH, NEUTRAL; SHORT HATCH, PHASE; "Z" HATCH OR HOOK, INSULATED GROUND. ARROW INDICATES HOMERUN.
SUBSCRIP	TS AND ABBREVIATIONS
WP	INDICATES WEATHERPROOF
⊢	INDICATES WALL MOUNTED DEVICE
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES



LIGHTING CONTROL CABINET SCHED													
<u>\$</u>	MAIN	MCB	CONTACTOR NO.	CIRCUIT NO.	CONTROL SOURCE	CONTACTOR LOCATION	LOAD(S) SERVED	120 V CONTROL CIRCUIT					
120/208V,3PH,4W PAD MOUNTED XFMR.	DISTRIBUTION	PANEL LP	C-1 (30A-2P CONTACTOR)	LP-1	PHOTOCELL ON - TIMECLOCK OFF	PAVILION RACK	PAVILION LIGHTING	LP-7					
7	BY OTHERS	G F SPD WORK BY OTHERS	NOTE: CONTRACTOR TO COORDINATE WITH OWNER FOR EXACT TIME-SCHEDULE PRIOR TO INSTALLATION. CONTRACTOR TO FIELD COORDINATE THE TOTAL NUMBER OF CONTACTORS NEEDED TO CONTROL NEW LOADS. 1. EXTERIOR CONNECTED LIGHTING POWER SHALL BE REDUCED BY NOT LESS THAN 30% FROM 12:00AM TO 6:00AM OR FROM 1 HOUR AFTER CLOSING TO 1 HOUR BEFORE OPENING.										

CONCRETE

STEEL

ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

REINFORCING ±

GROUND ROD

BUILDING PIPING

2. SENSOR SHALL TURN ON LIGHTING FIXTURES AUTOMATICALLY TO 100%. LIGHTING CONTROL CABINET DIAGRAM AND SCHEDULE

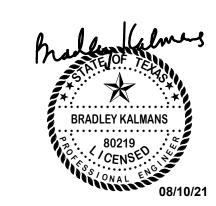
ADDENDUM #3

Issue

No.

07/14/2021 BID SET

08/06/2021 ADDENDUM 02 08/10/2021 ADDENDUM 03



Description



PROJECT TEAM

Sabine River Authority

Studio Red Architects Architect Civil Engineer LJA Engineering

Fractal Structural Stuctural Engineer Engineering

MEP Engineer Salas O'Brien Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY - ARCHITECTURAL AND **UTILITIES**

Drawing Name **ELECTRICAL DETAILS, LEGENDS, AND SCHEDULES**

SRA Project Number

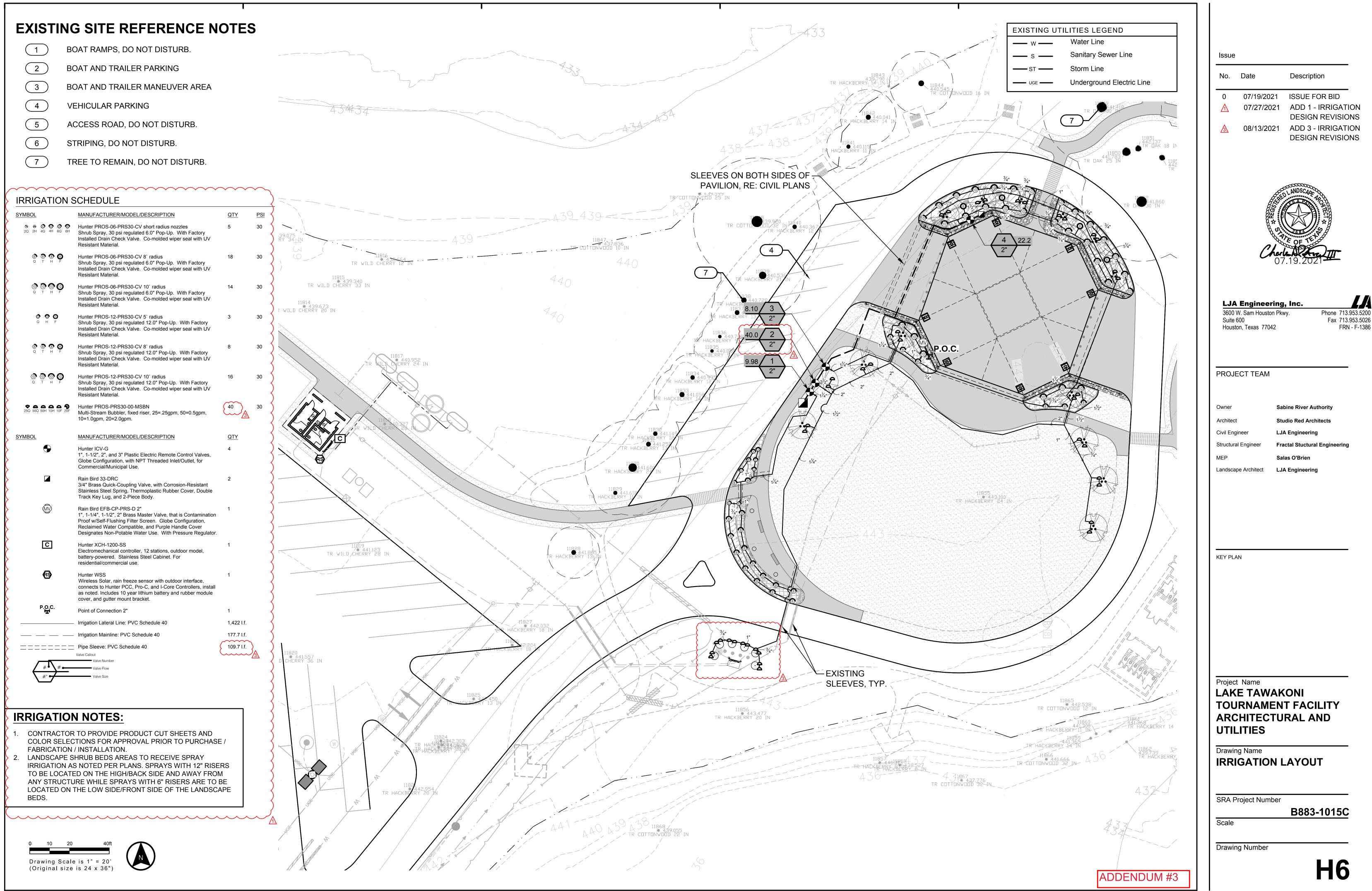
2001

Drawing Number

Scale

1-E2.01

1320 mcgowen houston, texas 77004 www.studioredarchitects.com 713.622.5333



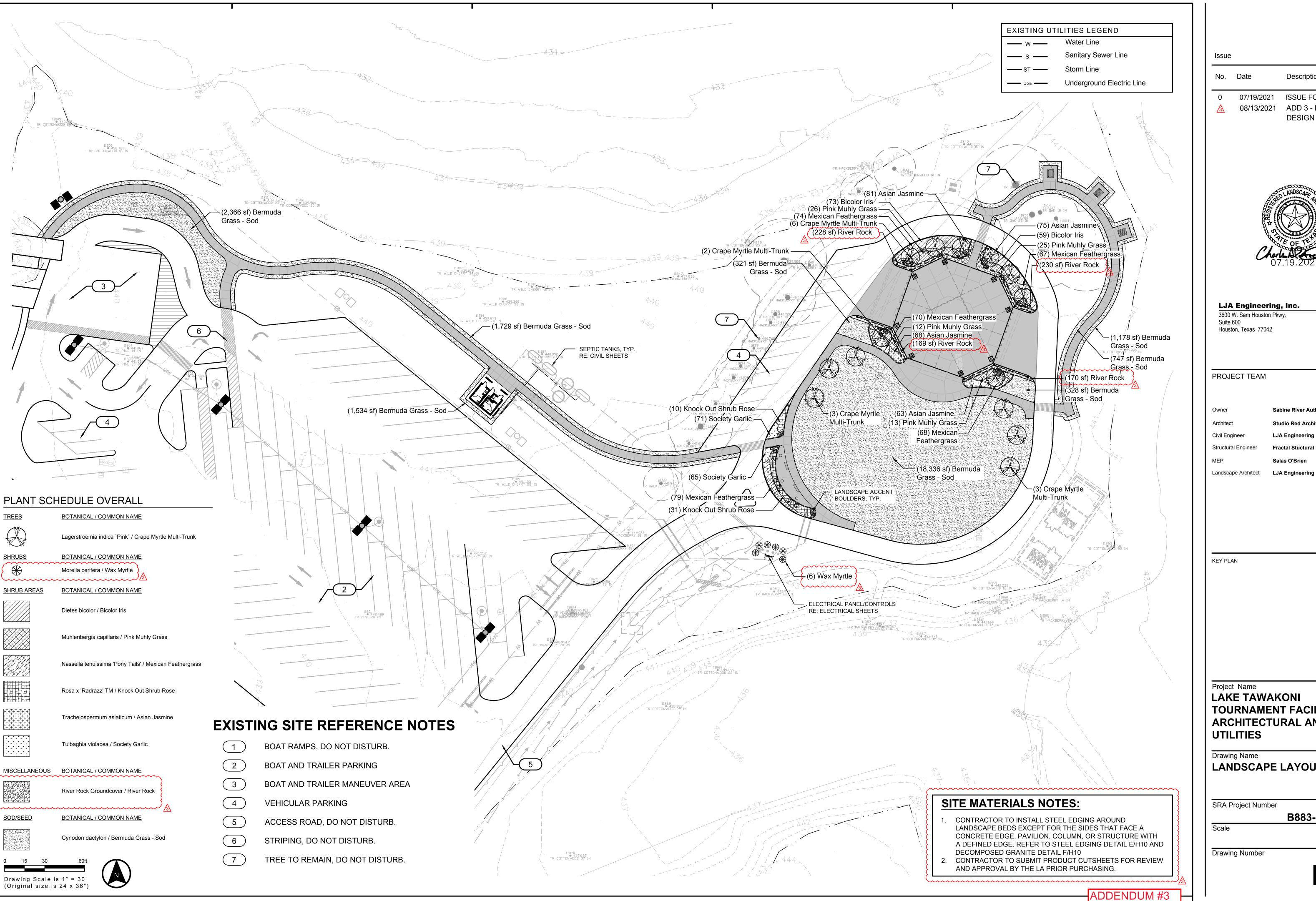
07/19/2021 ISSUE FOR BID **ADD 1 - IRRIGATION DESIGN REVISIONS** 08/13/2021 ADD 3 - IRRIGATION **DESIGN REVISIONS**



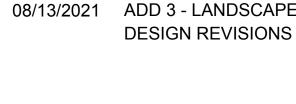
FRN - F-1386

Studio Red Architects Fractal Stuctural Engineering

TOURNAMENT FACILITY



Description ISSUE FOR BID 07/19/2021





LJA Engineering, Inc. 3600 W. Sam Houston Pkwy.

Suite 600 Houston, Texas 77042 Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

PROJECT TEAM

Owner Architect **Studio Red Architects** Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering Salas O'Brien

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

Drawing Name

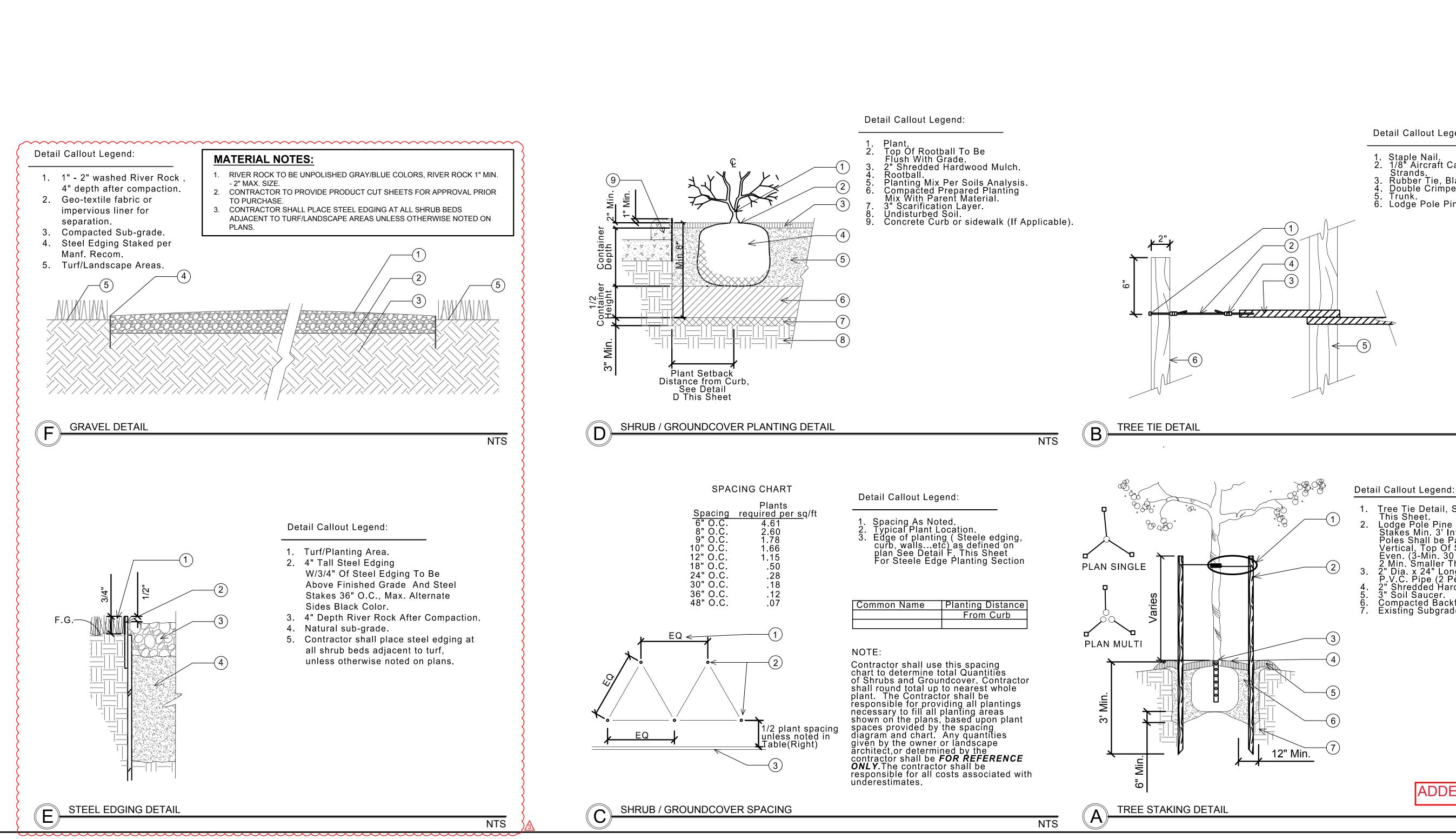
LANDSCAPE LAYOUT

SRA Project Number

B883-1015C

Drawing Number

TREES	CONT	CAL	HEIGHT	SPREAD		QTY	REMARKS
Lagerstroemia indica `Pink` / Crape Myrtle Multi-Trunk	65					14	Container Grown; Well Rooted; Multi-trunk; Tree Form Standard
CLIDLIDC	CONT	HEIGHT	SPREAD	SPACING	SPACING	OTV	РЕМАРИС
SHRUBS			, , , , , , , , , , , , , , , , , , ,	* * * * *		QTV	REMARKS
Morella cerifera / Wax Myrtle	15g	3-4`	3`	8` O.C.	60" o.c.	6	Container Grown; Well Rooted
SHRUB AREAS	CONT	HEIGHT	SPREAD	SPACING	SPACING	QTY	REMARKS
Dietes bicolor / Bicolor Iris	3g	18"	18"	24" o.c.	24" o.c.	132	Container Grown; Well Rooted
Muhlenbergia capillaris / Pink Muhly Grass	3g	30"	24"	36" o.c.	36" o.c.	76	Container Grown; Well Rooted
Nassella tenuissima 'Pony Tails' / Mexican Feathergrass	1g	12"	12"	12" o.c.	18" o.c.	358	Container Grown; Well Rooted
Rosa x 'Radrazz' TM / Knock Out Shrub Rose	3g	36"	24"	36" o.c.	36" o.c.	41	Container Grown; Well Rooted
Trachelospermum asiaticum / Asian Jasmine	4" Cont.	6"	6"	12" o.c.	12" o.c.	287	Container Grown; Well Rooted
Tulbaghia violacea / Society Garlic	3g	18"	18"	12" o.c.	12" o.c.	136	Container Grown; Well Rooted
MISCELLANEOUS	CONT	HEIGHT	SPREAD	SPACING	SPACING	QTY	REMARKS
Landscape Bed Area	SF	N/A	N/A	N/A		3,132 sf	Installed Complete; Refer to Details and Specifications
Mulch / `Landscape Mulch`	SF	N/A	N/A	N/A		3,132 sf	2" Depth; Install Complete
Planting Mix / Planting Mix	SF	N/A	N/A	N/A		3,132 sf	6" Depth; Install Complete
River Rock Groundcover / River Rock	SF	Ň/A	N/A	Ň/A		797 sf	4" Depth; Installed Complete, Refer to Details and Specifications
	1				1	<u> </u>	
SOD/SEED	CONT	HEIGHT	SPREAD	SPACING	SPACING	QTY	REMARKS



Detail Callout Legend:

Staple Nail. 1/8" Aircraft Cable Tree Guy 7 X 7

Strands.
3. Rubber Tie, Black.
4. Double Crimped Clamp.
5. Trunk.
6. Lodge Pole Pine Stake.

Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering Salas O'Brien

Issue

No. Date

07/19/2021

08/13/2021

Description

ISSUE FOR BID

ADD 3 - LANDSCAPE

DESIGN REVISIONS

Phone 713.953.5200 Fax 713.953.5026

FRN - F-1386

Landscape Architect LJA Engineering

Sabine River Authorit

Studio Red Architects

LJA Engineering, Inc. 3600 W. Sam Houston Pkwy.

Suite 600

Houston, Texas 77042

PROJECT TEAM

Owner

Architect

KEY PLAN

NTS

Tree Tie Detail, See Detail B, This Sheet.
Lodge Pole Pine Stake, Drive Stakes Min. 3' Into The Ground. Poles Shall be Parallel And Vertical, Top Of Stake Shall Be Even. (3-Min. 30 Gal. And Larger, 2 Min. Smaller Than 30 Gal. 2" Dia. x 24" Long Perforated P.V.C. Pipe (2 Per tree). 2" Shredded Hardwood Mulch. 3" Soil Saucer. Compacted Backfill Mix. Existing Subgrade.

ADDENDUM #3

NTS

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

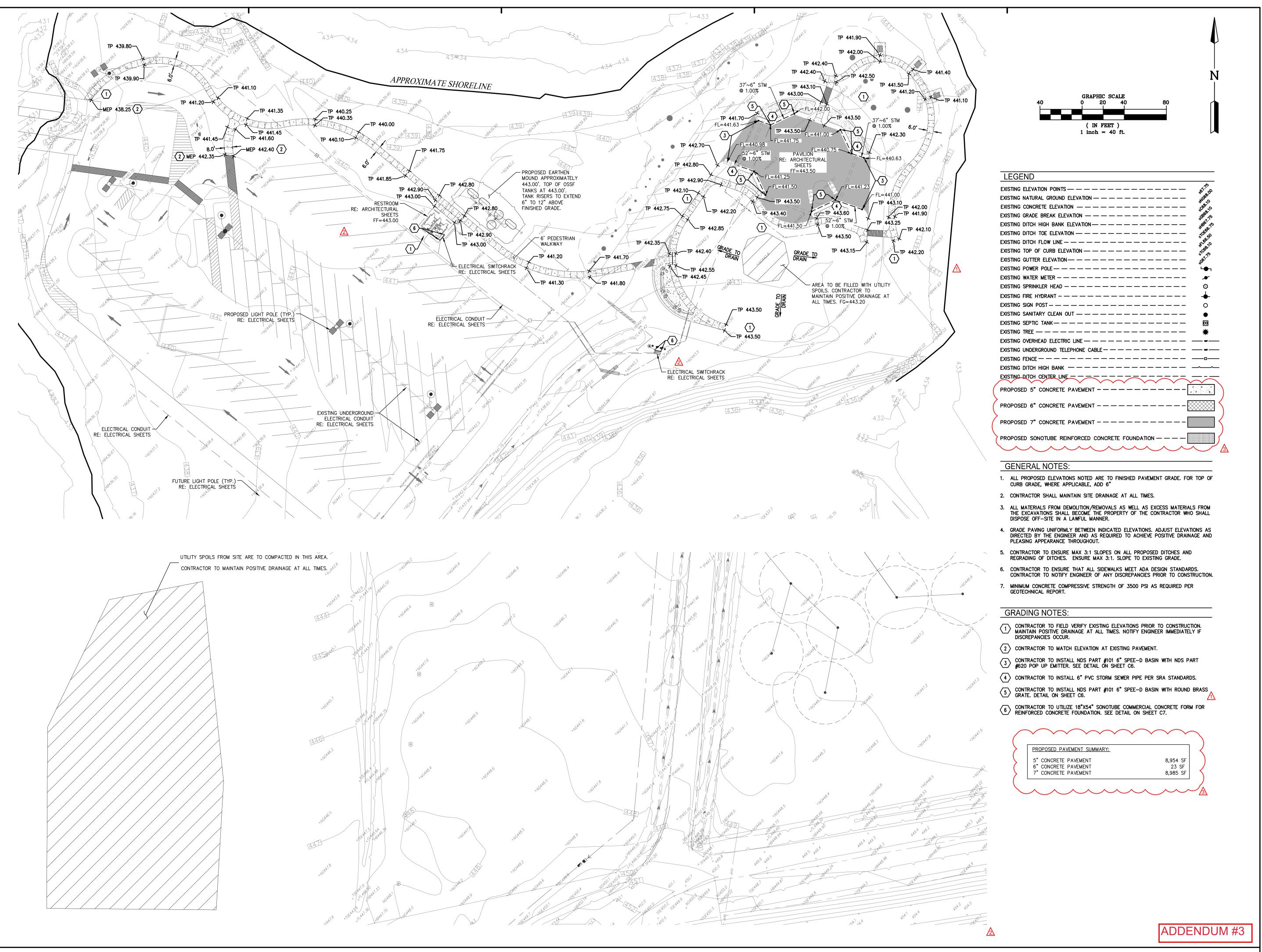
Drawing Name

LANDSCAPE DETAILS

SRA Project Number

B883-1015C Scale

Drawing Number



No. Date Description

0 07/19/2021 ISSUE FOR BID

↑ 07/27/2021 ADD 1 - CIVIL

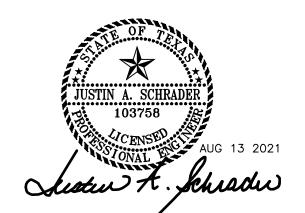
Issue

DESIGN REVISIONS

08/06/2021 ADD 2 - CIVIL
DESIGN REVISIONS

DESIGN REVISIONS

08/13/2021 ADD 3 - CIVIL
DESIGN REVISIONS



LJA Engineering, Inc. 3600 W. Sam Houston Pkwy.

Suite 600
Houston, Texas 77042

Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

PROJECT TEAM

Owner

Architect Studio Red Architects

Civil Engineer LJA Engineering

Structural Engineer Fractal Stuctural Engineering

MEP Salas O'Brien

Landscape Architect LJA Engineering

Sabine River Authority

KEY PLAN

Project Name

LAKE TAWAKONI
TOURNAMENT FACILITY
ARCHITECTURAL AND
UTILITIES

Drawing Name

GRADING & PAVING PLAN

SRA Project Number

Scale

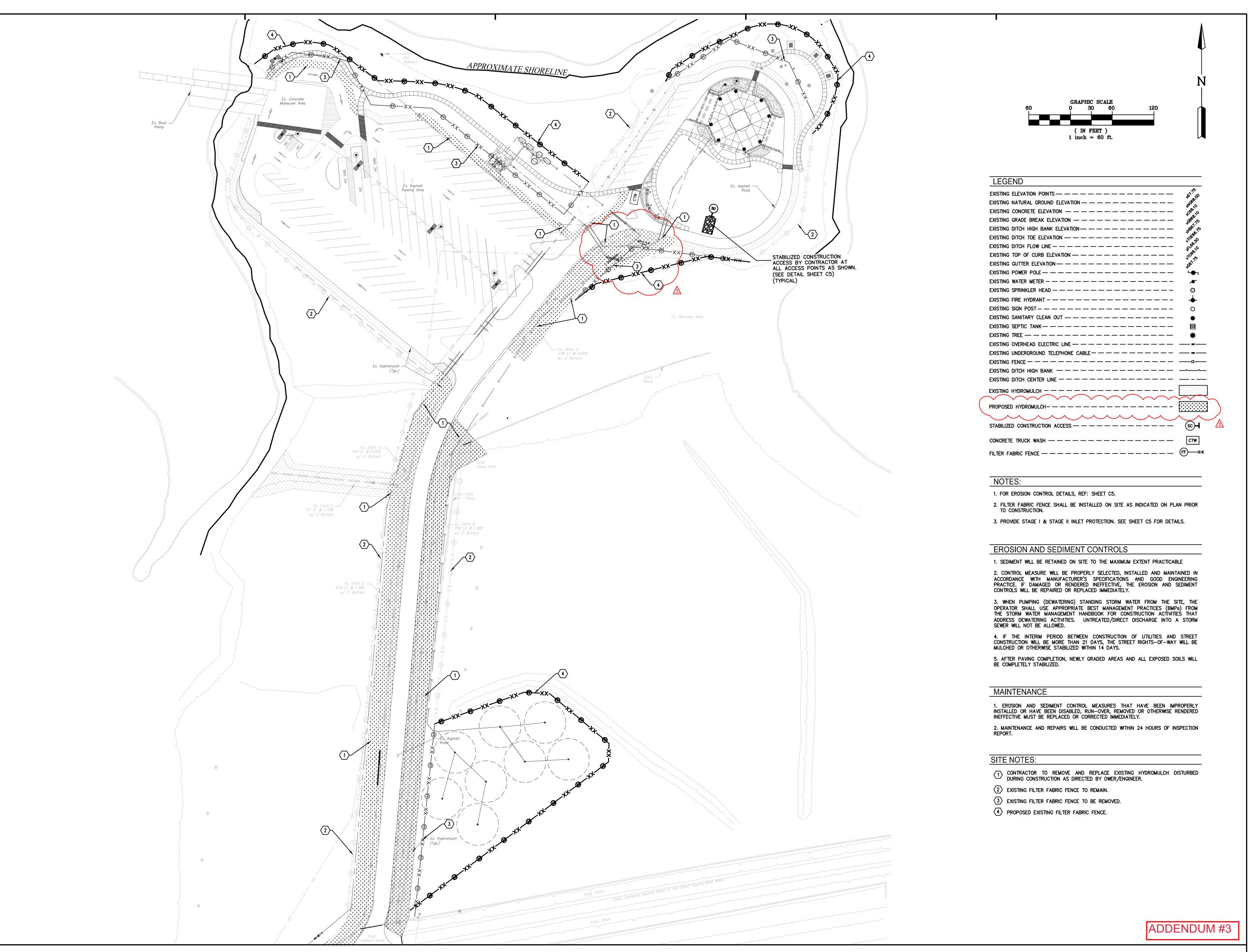
Drawing Number

C2

1" = 40'

B883-1015C

C3

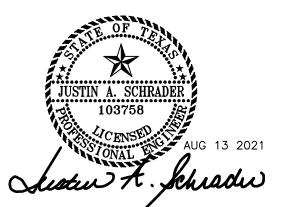


No. Date Description 0 07/19/2021 ISSUE FOR BID

07/27/2021

08/06/2021 ADD 2 - CIVIL

DESIGN REVISIONS 08/13/2021 ADD 3 - CIVIL



ADD 1 - CIVIL

DESIGN REVISIONS

DESIGN REVISIONS

LJA Engineering, Inc. 3600 W. Sam Houston Pkwy.

Suite 600 Houston, Texas 77042 Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

PROJECT TEAM

Owner Sabine River Authority Architect Studio Red Architects

Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering

Salas O'Brien Landscape Architect LJA Engineering

KEY PLAN

MEP

Project Name

LAKE TAWAKONI **TOURNAMENT FACILITY** ARCHITECTURAL AND **UTILITIES**

Drawing Name

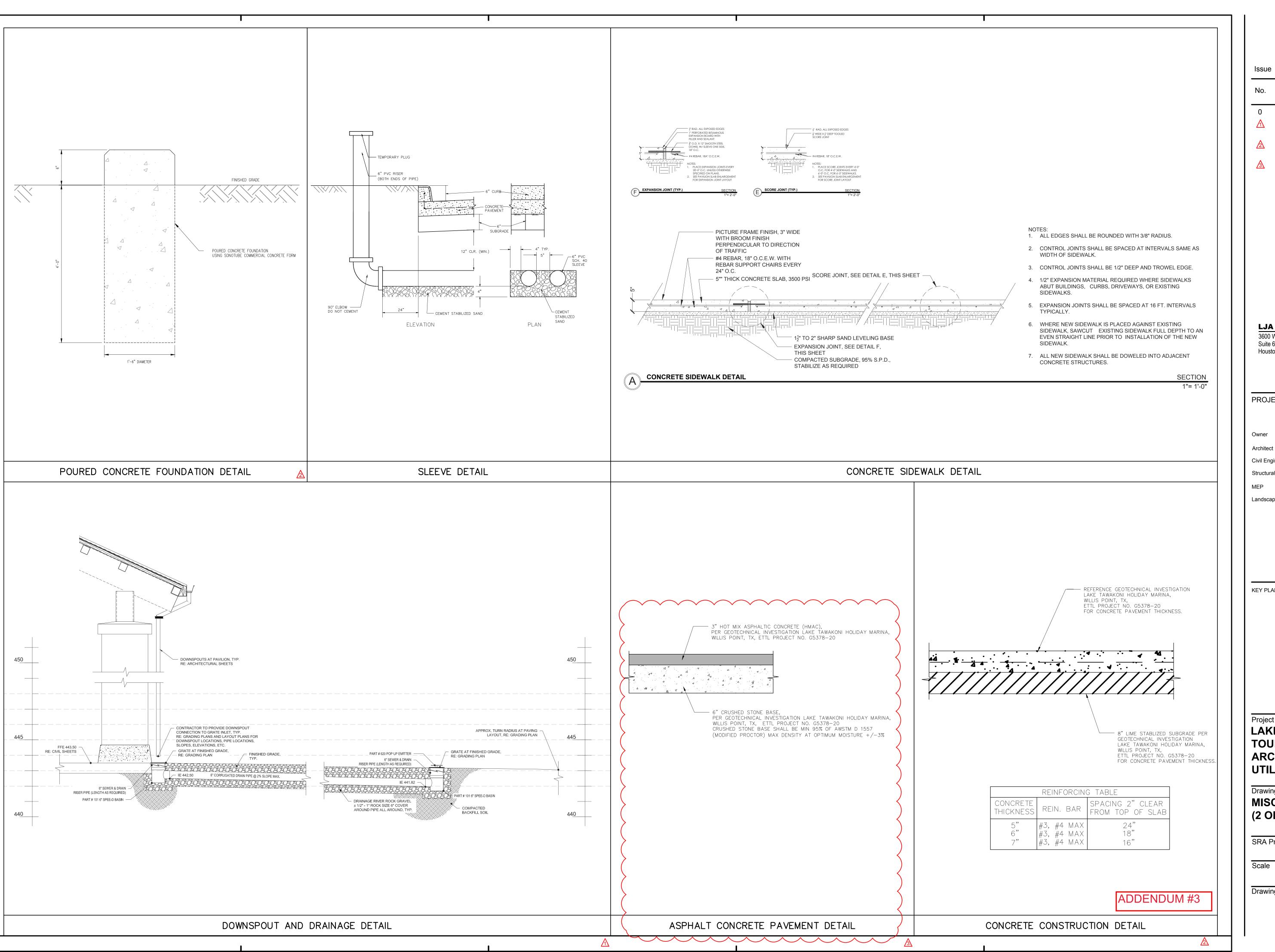
EROSION CONTROL PLAN

SRA Project Number

B883-1015C Scale

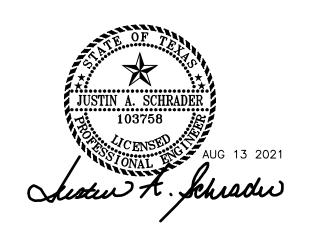
Drawing Number

1" = 60'



Description ISSUE FOR BID 07/27/2021 ADD 1 - CIVIL **DESIGN REVISIONS**

> ADD 2 - CIVIL **DESIGN REVISIONS** ADD 3 - CIVIL **DESIGN REVISIONS**



LJA Engineering, Inc. 3600 W. Sam Houston Pkwy. Suite 600

Phone 713.953.5200 Fax 713.953.5026 FRN - F-1386

PROJECT TEAM

Houston, Texas 77042

Studio Red Architects Architect Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering

Sabine River Authority

Salas O'Brien Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

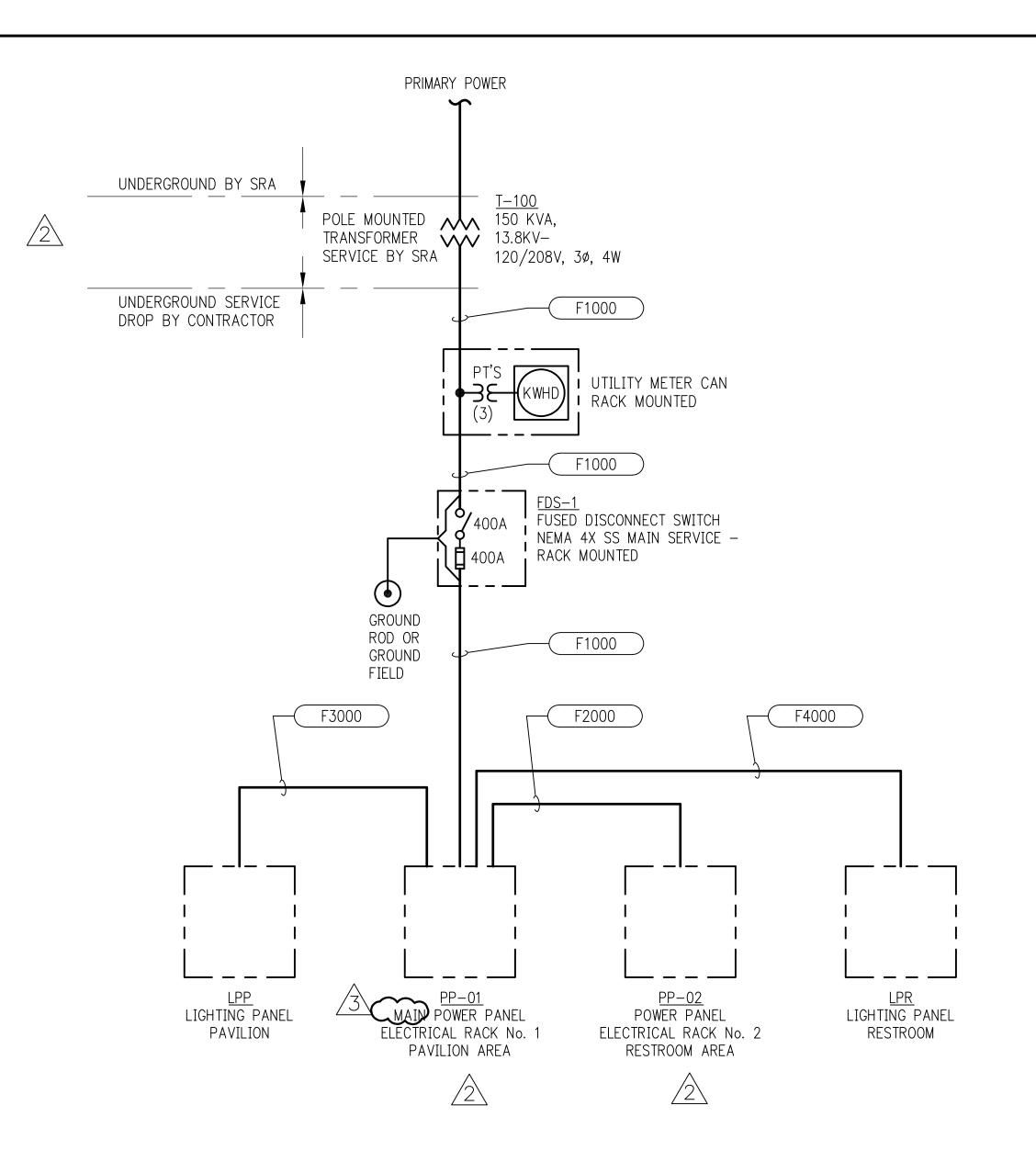
Drawing Name MISCELLANEOUS DETAILS (2 OF 2)

SRA Project Number

B883-1015C

NO SCALE

Drawing Number



Issue

No.	Date	Description
0	07/20/2021	ISSUE FOR BID
1	07/27/2021	ADDENDUM 01
2	08/06/2021	ADDENDUM 02
3	08/12/2021	ADDENDUM 03



LJA Engineering, Inc.

3600 W. Sam Houston Pkwy S. Suite 600 Houston, Texas 77042 Phone 713.953.5200 Fax 713.953.5026 FRN-F1386 B883-1015

PROJECT TEAM

LJA Project No.

Owner Sablne River Authority

Architect Studio Red Architects

Civil Engineer LJA Engineering

Structural Engineer Fractal Stuctural Engineering

MEP Salas O'Brien

Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI
TOURNAMENT FACILITY
ARCHITECTURAL AND
UTILITIES

Drawing Name

ELECTRICAL
ONELINE DIAGRAM

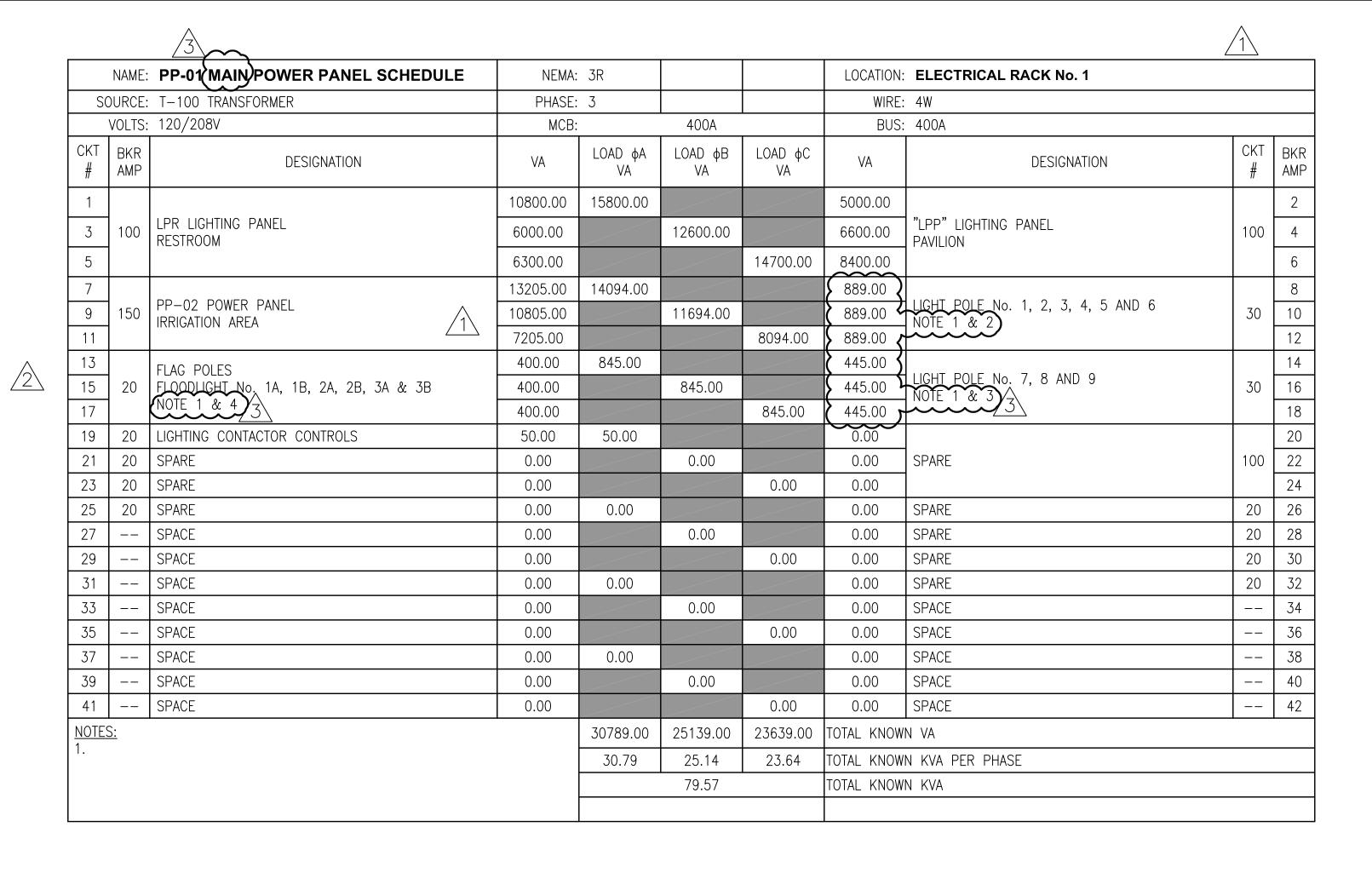
SRA Project Number

B883-1015C

Drawing Number

NONE

F2



	NAME:	PP-02 POWER PANEL SCHEDULE	NEMA:	3R			LOCATION	ELECTRICAL RACK No. 2 (RESTROOM A	REA)			
S	OURCE:	PP-01 POWER PANEL	PHASE:	3			WIRE	: 4W				
	VOLTS:	120/208V	MCB:		150A		BUS	BUS: 225A				
CKT #	BKR AMP	DESIGNATION	VA	LOAD ¢A VA	LOAD ¢B VA	LOAD ¢C VA	VA	DESIGNATION	CKT #	BKR AMF		
1	30	DOSING TANK CONTROL PANEL	3600.00	6000.00			2400.00	PRETREATMENT TANK CONTROL PANEL	20	2		
3			7205.00		10805.00		3600.00	TREATMENT TANK CONTROL PANEL	30	4		
5	60	IRRIGATION TANK CONTROL PANEL	7205.00			7205.00	0.00	SPARE	30	6		
7			7205.00	7205.00			0.00	SPARE	20	8		
9	20	SPARE	0.00		0.00		0.00	SPARE	20	10		
11	20	SPARE	0.00			0.00	0.00	SPARE	20	12		
13	20	SPARE	0.00	0.00			0.00	SPARE	20	14		
15	20	SPARE	0.00		0.00		0.00	SPARE	20	16		
17	20	SPARE	0.00			0.00	0.00	SPARE	20	18		
19	20	SPARE	0.00	0.00			0.00	SPARE	20	20		
21		SPACE	0.00		0.00		0.00	SPACE		22		
23		SPACE	0.00			0.00	0.00	SPACE		24		
NOTE	<u>S:</u>			13205.00	10805.00	7205.00	TOTAL KNOW	'N VA				
1.				13.21	10.81	7.21	TOTAL KNOW	N KVA PER PHASE				
					31.22 TOTAL KNOWN KVA							

NOTES

- 1. FLAG POLES FLOODLIGHTS AND LIGHT POLE No. 1 THROUGH 9 ARE FUTURE, SEE NOTE 2 & 3 FOR THE ADDITIVE ALTERNATE BELOW.
- 2. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 1 THROUGH No. 6 WITH CONDUITS AND CONDUCTORS. EXTEND CONDUIT AND SPLICE CONDUCTORS FOR THE LIGHT POLE No. 5 AND No. 6 FROM LIGHT POLE No. 1 AND TERMINATE AS REQUIRED. SEE LIGHTING CONTACTOR SCHEMATIC DRAWING E04.
- 3. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 7 THROUGH No. 9 WITH CONDUITS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.
- 4. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL FLAG POLE LIGHTS WITH CONDUITS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.

ssue

NO.	Date	Description
0	07/20/2021	ISSUE FOR BID
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2	08/06/2021	ADDENDUM 02
3	08/12/2021	ADDENDUM 03



LJA Engineering, Inc. 3600 W. Sam Houston Pkwy S.

Suite 600 Houston, Texas 77042 LJA Project No

Phone 713.953.5200 Fax 713.953.5026 FRN-F1386 B883-1015

PROJECT TEAM

Owner Sabine River Authority Studio Red Architects Architect Civil Engineer LJA Englneering Structural Engineer Fractal Stuctural Engineering MEP Salas O'Brien

Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND UTILITIES

Drawing Name **ELECTRICAL** PANEL SCHEDULES

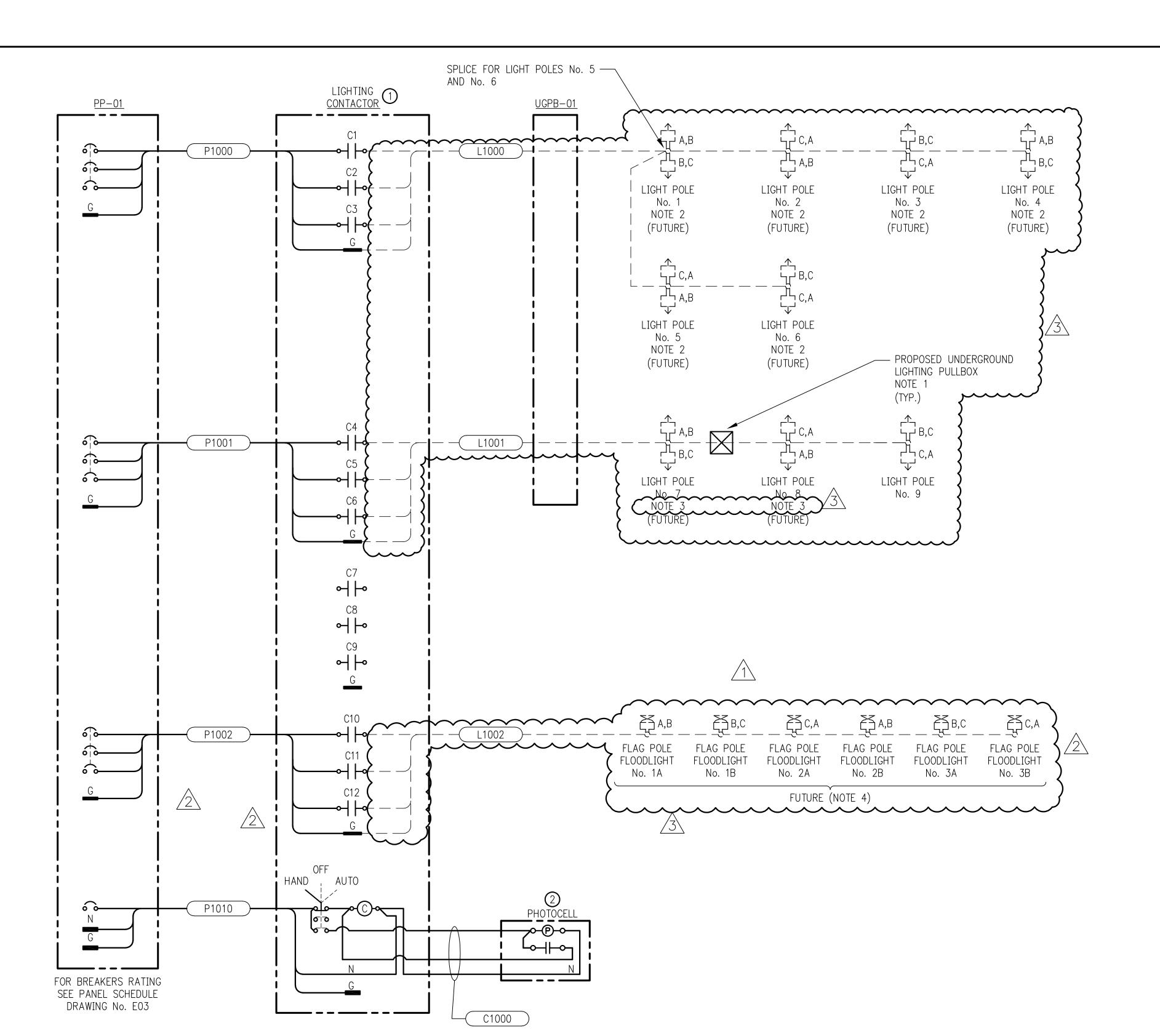
SRA Project Number

B883-1015C

Drawing Number

NONE

ADDENDUM #3



ITEM	QTY	DESCRIPTION
1	1	LIGHTING CONTACTOR, 208V, 30A, 12 POLE, 120VAC COIL, ELECTRICALLY HELD, NEMA 3R WITH HAND-OFF-AUTO SELECTOR SWITCH
2	1	PHOTOCELL, 120VAC, 15A, STEM MOUNTED

NOTES:

1. CONTRACTOR TO INSTALL UNDERGROUND LIGHTING PULLBOX FOR FUTURE CONDUIT EXTENSION AND CONNECTION TO THE FUTURE LIGHT POLES. PROPOSED UNDERGROUND LIGHTING PULLBOX TO BE OMITTED IF ADDITIVE ALTERNATED IS APPROVED, SEE NOTE 3.

- 2. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 1 THROUGH No. 6 AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED. SPLICE CONDUCTORS FOR THE LIGHT POLE No. 5 AND No. 6 FROM LIGHT POLE No. 1 AND TERMINATE AS REQUIRED.
- 3. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 7 THROUGH No. 9 AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.
- 4. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL FLAG POLES FLOODLIGHTS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.

LEGEND:

PROPOSED CABLE/CONDUCTORS

— — — FUTURE CABLE/CONDUCTORS

XXXX) PROPOSED/FUTURE CABLE/CONDUCTORS TAG

Issue

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Phone 713.953.5200 Fax 713.953.5026

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Houston, Texas 77042 LJA Project No.

PROJECT TEAM

Owner Sabine River Authority Architect Studio Red Architects Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering

MEP Salas O'Brlen Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

Drawing Name ELECTRICAL LIGHTING CONTACTOR **SCHEMATIC**

SRA Project Number

B883-1015C

Drawing Number

NONE

ADDENDUM #3

					CONDUIT AND CAR	3LE	SCHEDULE						
		SERVI	Œ	RO	JTING	Т	CABLES/CONDUCTORS				CONDUITS		
CONDUIT TAG	CABLE TAG	VOLTS	LOAD	ORIGINATION POINT	TERMINATION POINT	QTY	. SIZE	INS TYF	UL. APRROX	COND. SIZE	TYPE	APPROX. LENGTH	
F1000	F1000	120/208V, 3¢	150KVA	T-100 SERVICE ENTRANCE TRANSFORMER	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	3	#3/0, 1 #3/0 NEU., 1 #4 GND. EA.	THI	IN 30'	2 - 2 1/2"	RGS	15'	UTILITY METER CAN AND FUSED DISCONNECT SWITCH
									3		,	3	
F2000	F2000	120/208V, 3φ	150A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	PP-02 POWER PANEL (ELECT. RACK No. 2 RESTROOM AREA)	3	#4/0, 1 #4/0 NEU., 1 #4 GND.	THI		3"	DETAIL 5		VIA UGPB-1 $\sqrt{3}$
F2001	F2001	120V	10A	PP-02 POWER PANEL (ELECT. RACK No. 2 RESTROOM AREA)	PRETREATMENT TANK PANEL CONTROLLER	2	#12, 1 #12 GND.	THI	IN 5	1"	DETAIL 5	3'	THROUGH DISCONNECT SWITCH
F2002	F2002	120V	30A	PP-02 POWER PANEL (ELECT. RACK No. 2 RESTROOM AREA)	DOSING TANK PANEL CONTROLLER	2	#10, 1 #10 GND.	THI	IN (10'	1"	DETAIL 5	5'	THROUGH DISCONNECT SWITCH
F2003	F2003	120V	30A	PP-02 POWER PANEL (ELECT. RACK No. 2 RESTROOM AREA)	TREATMENT TANK PANEL CONTROLLER	2	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	THI	IN \ 10'	1"	DETAIL 5	5'	THROUGH DISCONNECT SWITCH
F2004	F2004	208V, Зф	60A	PP-02 POWER PANEL (ELECT. RACK No. 2 RESTROOM AREA)	IRRIGATION TANK PANEL CONTROLLER	3	/ #6, 1 #8 GND.	THI	IN 1 5'	1"	DETAIL 5	10'	THROUGH DISCONNECT SWITCH
							<u> </u>		\	3		7	
F3000	F3000	120/208V, 3φ	100A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	LPP LIGHTING PANEL (PAVILION)	3	#2/0, 1 #2/0 NEU., 1 #6 GND.	THI	IN 290'	2 1/2"	DETAIL 5	280'	
										3		1	
F4000	F4000	120/208V, 3¢	100A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	LPR LIGHTING PANEL (RESTROOM)	3	#1, 1 #1 NEU., 1 #6 GND.	THI	IN 285'	1 1/2"	DETAIL 5		V_{A} via ugpb-1 V_{A}
P1000	P1000	120/208V, 3¢	30A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	LIGHTING CONTACTOR	3	#10, 1 #10 GND.	THI	IN 5'	3/4"	RGS	5'	FOR LIGHT POLE No. 1, 2, 3, 4, 5 & 6
P1001	P1001	120/208V, 3¢	30A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	LIGHTING CONTACTOR	3	#10, 1 #10 GND.	THI	IN 5'	3/4"	RGS	5'	FOR LIGHT POLE No. 7, 8 & 9
P1002	P1002	120/208V, 3¢	20A	PP-01 MAIN POWER PANEL (ELECT. RACK No. 1 PAV. AREA)	LIGHTING CONTACTOR	2	#12, 1 #12 GND.	THI	IN 5'	3/4"	RGS	5'	FOR FLAG POLES FLOODLIGHT No. 1A, 1B, 2A, 2B, 3A, 3B
P1010	P1010	120V	20A	PP-01 POWER PANEL (ELECT. RACK No. 1 PAVILION AREA)	LIGHTING CONTACTOR	2	#12, 1 #12 GND.	THI	IN 5'	3/4"	RGS	5'	
P2001	P2001	120V	20A	PRETREATMENT TANK PANEL CONTROLLER	PRETREATMENT TANK			TH	IN 75'		DETAIL 5	65'	CONDUIT AND CONDUCTORS/CABLES SHALL BE PER
P2002	P2002	120V	30A	DOSING TANK PANEL CONTROLLER	DOSING TANK			THI	IN 75'		DETAIL 5	65'	MANUFACTURER RECOMMENDATIONS
P2003	P2003	120V	30A	TREATMENT TANK PANEL CONTROLLER	TREATMENT TANK			THI	IN 95'		DETAIL 5	75'	
P2004	P2004	208V, Зф	60A	IRRIGATION TANK PANEL CONTROLLER	IRRIGATION TANK			TH	IN 110'		DETAIL 5	90'	
									/3 ~~			000	^
L1000	L1000	208V, Зф	25A	LIGHTING CONTACTOR	LIGHT POLE No. 1, 2, 3, 4, 5 & 6 (FUTURE) 3	3	#4, 1 #8 GND. (FUTURE) 3	THI	- 1 7	? "	DETAIL 5	270'	NOTE 5, 6 & 9 \\ 3
L1001	L1001	208V, Зф	624VA	LIGHTING CONTACTOR	LIGHT POLE No. 7, 8 & 9 (FUTURE)	_	#4, 1 #8 GND. (FUTURE)	THI	IN 3 700'	2"	DETAIL 5	685'	NOTE 7 AND 10
L1002	L1002	208V, Зф	1200VA	LIGHTING CONTACTOR 2	FLAG POLES FLOODLIGHT No. 1A, 1B, 2A, 2B, 3A & 3B	3	#10, 1 #10 GND. (FUTURE)	THI	IN 150'	1"	DETAIL 5	140'	INSTALL CONDUIT AND SEE NOTE 8 FOR ADDITIVE ALTERNATE
									-			\	
C1000	C1000	120V	120VA	LIGHTING CONTACTOR	PHOTOCELL	3	#14, 1 #14 GND.	TH	IN 10'	3/4"	RGS	10'	
									2			2	



NOTES

- 1. FOR ALLOWABLE CONDUIT AND CONDUCTOR INSULATION TYPES SEE RELATED SPECIFICATIONS.
- 2. CONDUCTOR AND CABLE LENGTHENS ARE IN FEET.
- 3. CONTRACTOR SHALL COIL AND TAPE SPARE CONDUCTORS.
- 4. CONDUITS ON PLANS ARE SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL INSTALL SUPPORTS AND PULL FITTINGS AS REQUIRED WITH A MAXIMUM OF THREE (3) 90° CONDUIT BENDS BETWEEN FITTINGS OR BOXES. FINAL CONDUIT BANK ROUTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. EXISTING 2" CONDUIT RUNNING ACROSS THE THE PARKING LOT SHALL BE INTERCEPTED AND EXTENDED TO THE ELECTRICAL RACK No. 1 VIA UGPB-1 FOR FUTURE CONNECTIONS OF THE FUTURE LIGHT POLES. SEE NOTE 6 FOR THE ADDITIVE ALTERNATE.
- 6. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 1 THROUGH No. 6 WITH CONDUITS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED. EXTEND CONDUIT AND SPLICE CONDUCTORS FOR THE LIGHT POLE No. 5 AND No. 6 FROM LIGHT POLE No. 1 AND TERMINATE AS REQUIRED.
- 7. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL LIGHT POLE No. 7 THROUGH No. 9 WITH CONDUITS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.
- 8. IF ADDITIVE ALTERNATE IS APPROVED, INSTALL FLAG POLE LIGHTS WITH CONDUITS AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.
- 9. CONDUIT L1000 TO BE INSTALLED TO THE UGPB-1 WITHOUT CONDUCTORS FOR FUTURE CONNECTIONS OF THE LIGHT POLES UNLESS ADDITIVE ALTERNATE IS APPROVED.
- 10. CONDUIT L1001 TO BE INSTALLED TO THE ULPB-2 WITHOUT CONDUCTORS FOR FUTURE CONNECTIONS OF THE FUTURE LIGHT POLES UNLESS ADDITIVE ALTERNATE IS APPROVED.

ABBREVIATIONS:

EA. = EACH

FT. = FEET

GND. = GROUND NEU. = NEUTRAL Issue

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Phone 713.953.5200 Fax 713.953.5026

FRN-F1386 B883-1015

LJA Engineering, Inc. 3600 W. Sam Houston Pkwy S. Suite 600

Houston, Texas 77042 LJA Project No.

PROJECT TEAM

Owner Sablne River Authority

Architect Studio Red Architects

Civil Engineer LJA Engineering

Structural Engineer Fractal Stuctural Engineering

MEP Salas O'Brlen

Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI
TOURNAMENT FACILITY
ARCHITECTURAL AND
UTILITIES

Drawing Name

ELECTRICAL
CONDUIT AND CABLE
SCHEDULE

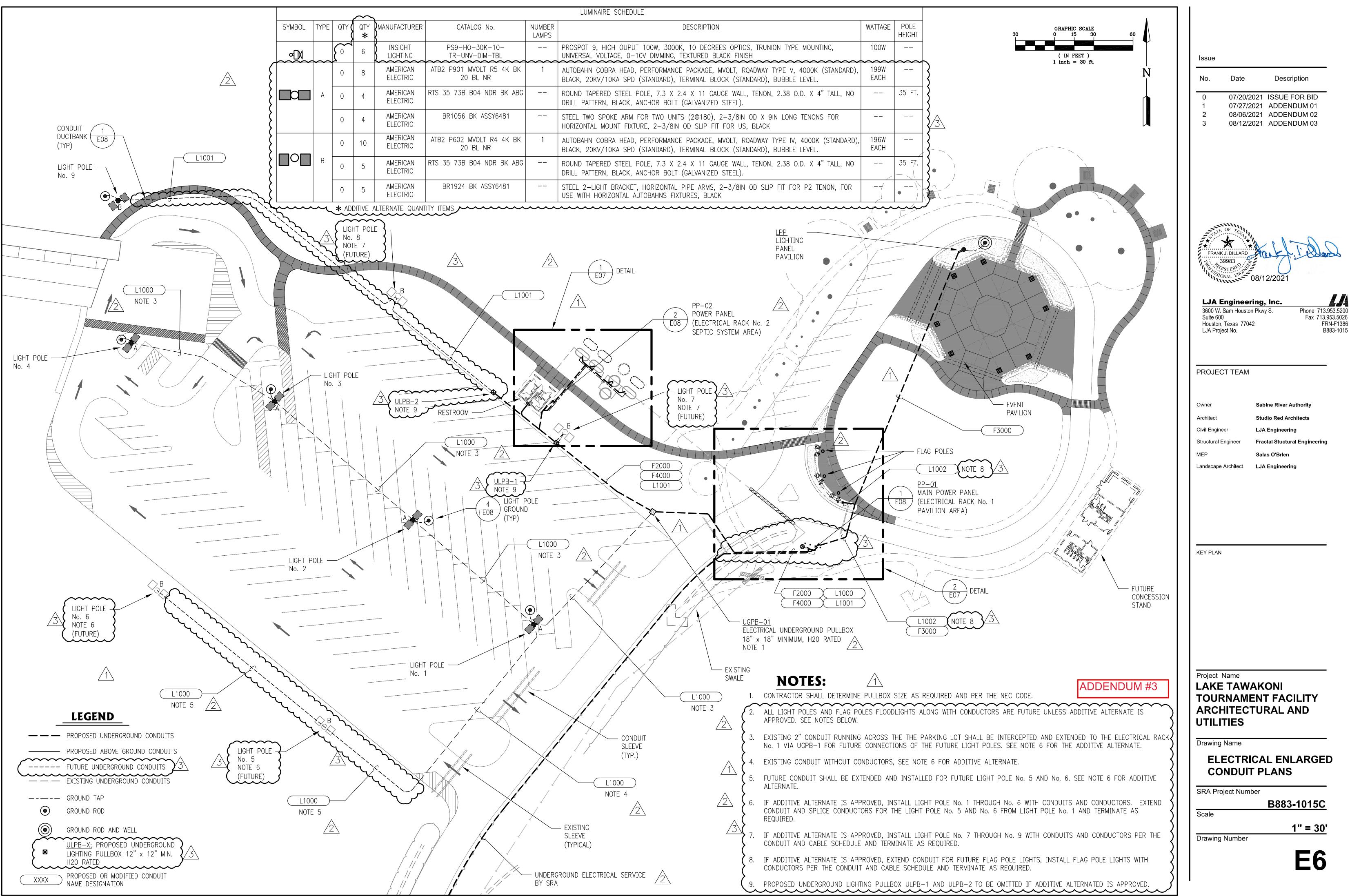
SRA Project Number

B883-1015C
Scale

Drawing Number

E5

NONE

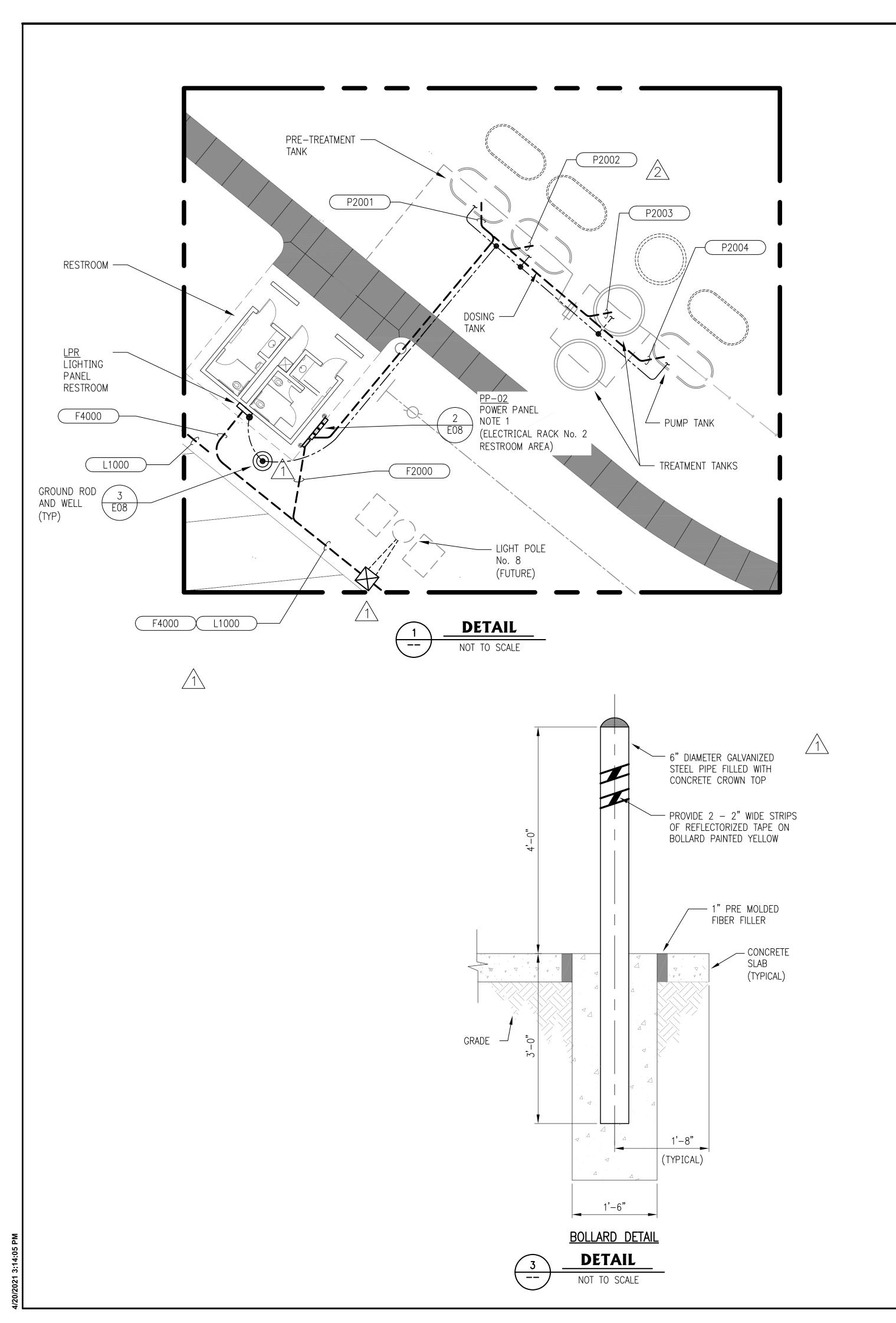


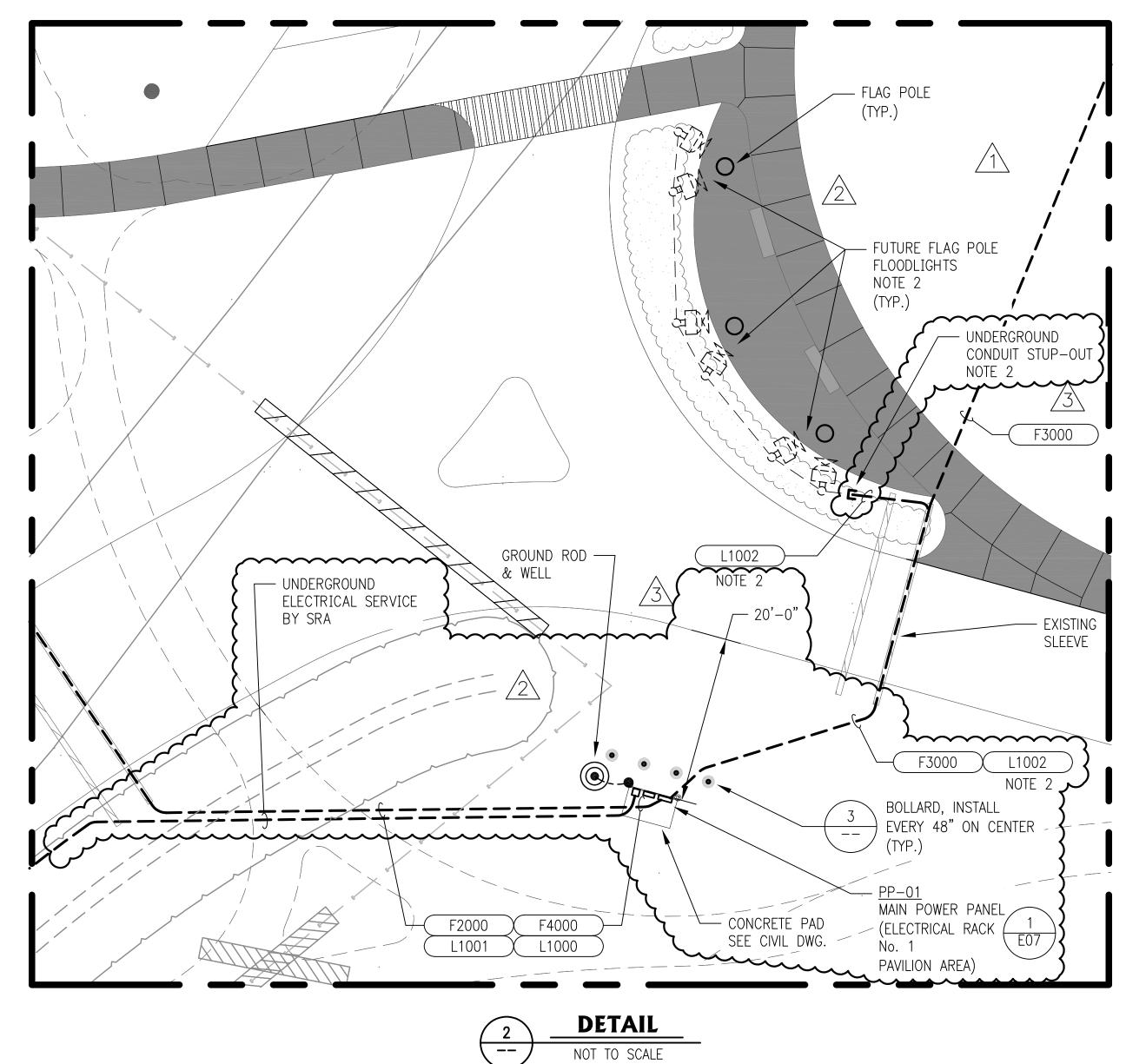
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2	00/40/0004	ADDENDUM OO



B883-1015

Fractal Stuctural Engineering





NOTES:

1. CONTRACTOR TO INSTALL FUSED DISCONNECT SWITCHES AS FOLLOWS: 1.1. PRETREATMENT, TREATMENT AND DOSING TANKS 30A, 2 POLE,

1φ, NEMA 3R 1.2. IRRIGATION TANK 60 AMPS, 3 POLE, 3¢, NEMA 3R

INSTALL CONDUIT AND CAP FOR FUTURE FLAG POLES FLOODLIGHTS IF ADDITIVE ALTERNATE IS APPROVED, INSTALL FLAG POLE FLOODLIGHTS WITH CONDUIT AND CONDUCTORS PER THE CONDUIT AND CABLE SCHEDULE AND TERMINATE AS REQUIRED.

Issue 07/20/2021 ISSUE FOR BID 07/27/2021 ADDENDUM 01 08/06/2021 ADDENDUM 02

08/12/2021 ADDENDUM 03 **LEGEND**

PROPOSED ABOVE GROUND CONDUITS

Phone 713.953.5200 Fax 713.953.5026 FRN-F1386 B883-1015

— — PROPOSED UNDERGROUND CONDUITS

— — EXISTING UNDERGROUND CONDUITS

Description

PROPOSED OR MODIFIED CONDUIT NAME DESIGNATION XXXX

FRANK J.: DILLARD

LJA Engineering, Inc. 3600 W. Sam Houston Pkwy S. Suite 600

Houston, Texas 77042 LJA Project No.

PROJECT TEAM

Owner Sabine River Authority Architect Studio Red Architects Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering Salas O'Brlen Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

Drawing Name

ELECTRICAL ENLARGED CONDUIT PLAN DETAILS

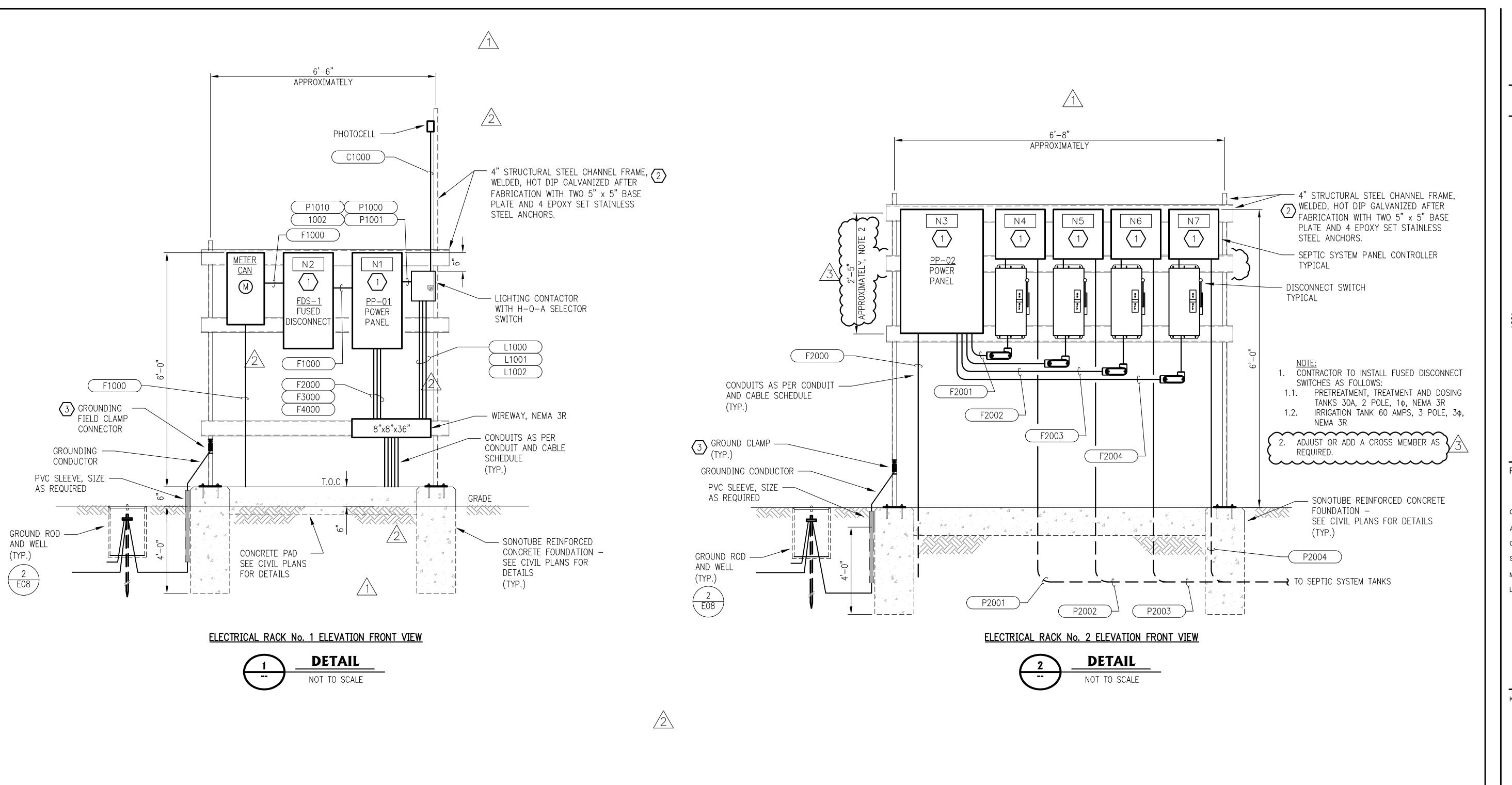
SRA Project Number

Scale

NTS Drawing Number

B883-1015C

ADDENDUM #3



NAMEPLATE SCHEDULE

DESIGNATION <u>ENGRAVED</u> PP-01 FDS-1 PP-02 PRE-TREATMENT TANK DOSING TANK TREATMENT TANK PUMP TANK



- 1. NAMEPLATE, 3/8" HIGH LETTERS IN WHITE ON BLACK BAKELIGHT (SEE NAMEPLATE SCHEDULE), SHALL BE MOUNTED USING 316 STAINLESS STEEL HARDWARE.
- 2. UNLESS OTHERWISE NOTED, ALL NUTS, BOLTS, SCREWS WASHERS, ETC. SHALL BE TYPE 316 STAINLESS STEEL.
- 3. PROVIDE ANTI-CORROSIVE SPRAY ON ANY BARE METAL PARTS OR EXPOSED WIRE.

ADDENDUM #3

|--|

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FRN-F1386

B883-1015

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3600 W. Sam Houston Pkwy S. Suite 600

Houston, Texas 77042 LJA Project No.

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Owner Sabine River Authority Architect Studio Red Architects Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering Salas O'Brlen Landscape Architect LJA Engineering

KEY PLAN

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

Drawing Name

ELECTRICAL SWITCHRACK No. 1 AND No. 2

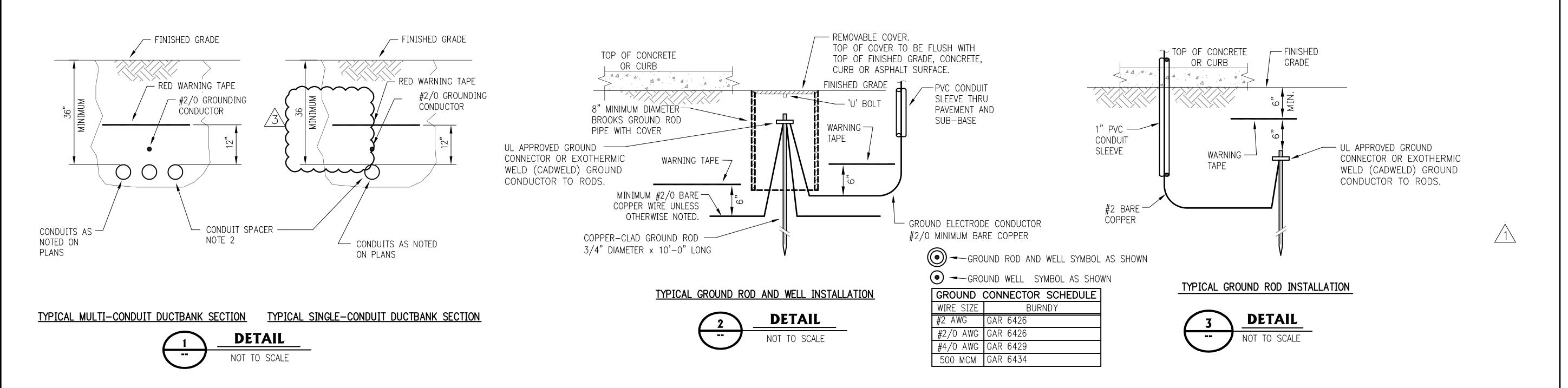
SRA Project Number

Scale

Drawing Number

NTS

B883-1015C



2. SUPPORT ALL CONDUITS USING CARLON SPACERS AT MAXIMUM

RIGID GALVANIZED — STEEL CONDUIT PVC COATED RIGID GALVANIZED STEEL CONDUIT COUPLING ADAPTER. (AS REQUIRED) PVC COATED RIGID GALVANIZED STEEL GROUND CONNECTOR, CONDUIT PROVIDED BY CONTRACTOR CONCRETE ENCASEMENT PVC COATED RIGID GALVANIZED / FINISHED GRADE STEEL CONDUIT COUPLING ADAPTER. CROUND ROD AND WELL (AS REQUIRED) PVC COATED RIGID GALVANIZED STEEL BEND PVC CONDUIT (USE FOR ALL UNDERGROUND BENDS)

TYPICAL LIGHT POLE GROUND

#2 BARE COPPER IN 1"C

STUB CONDUIT 6" —

ABOVE FOUNDATION

POLE FOUNDATION -

SEE ARCHITECTURAL

FOR DETAILS

AND CIVIL DRAWINGS

DETAIL NOT TO SCALE



CONDUIT STUB-UP

NOTES

1. SEAL ALL OPEN CONDUITS WITH NON-HARDENING DUCT SEAL.

SEPARATION DISTANCE OF TEN (10) FEET.

Phone 713.953.5200 Fax 713.953.5026 FRN-F1386 Houston, Texas 77042 B883-1015 LJA Project No. PROJECT TEAM Owner Sabine River Authority Studio Red Architects Architect Civil Engineer LJA Engineering Structural Engineer Fractal Stuctural Engineering Salas O'Brlen Landscape Architect LJA Engineering KEY PLAN

LJA Engineering, Inc.

3600 W. Sam Houston Pkwy S.

Issue

Description

07/20/2021 ISSUE FOR BID

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08/12/2021 ADDENDUM 03

Project Name

LAKE TAWAKONI TOURNAMENT FACILITY ARCHITECTURAL AND **UTILITIES**

Drawing Name

ELECTRICAL MISCELLANEOUS DETAILS

SRA Project Number

B883-1015C

Drawing Number

NTS