

ADDENDUM NO. 1
05/01/2024

PROJECT: CITY OF IDALOU
WATER TREATMENT IMPROVEMENTS

BID DATE: MAY 8, 2024

The following changes and/or additions shall be made to the Plans, Specifications, and Contract Documents for the above referenced project. The bidder shall acknowledge receipt of this Addendum by signing below and returning this Addendum with the Bid.

1) GENERAL

- a) The contractor shall purchase and provide a MiniRae 3000 air sampler. This air sampler shall be paid for on an individual line item in the bid schedule.
- b) The contractor shall purchase and provide prefilled VGAC containers as specified and shown on the plans. The VGAC containers shall be paid for on an individual line item in the bid schedule.

2) CONTRACT DOCUMENTS

- a) Bid Schedule – The bid schedule has been revised to show the following items. Please use the updated bid schedule.
 - i) A 6” flow meter has been included in the base bid. This flow meter is located on the revised sheet D-7.
 - ii) The gravel drive verbiage in the base bid has been replaced with “Crushed Base Drive”.
 - iii) A blower enclosure has been included as an additive alternate.
 - iv) Multiple line items have been added to the base bid schedule for miscellaneous equipment and project items.

3) PLAN SHEETS

- a) Sheet C-11 – This sheet has been revised to clarify the drive area material.
- b) Sheet D-3 – This sheet has been revised to clarify fencing at tank and VGAC units.
- c) Sheet D-5 – This sheet has been revised to add air and water sampling valves/taps as well as a 2” butterfly valve off the transfer pump discharge.
- d) Sheet D-7 – This sheet has been revised to add a feed pump flow meter (6” McCrometer with ProComm readout or equal).
- e) Sheet S-2 – This sheet has been revised to add a detail for the brick wainscot siding.
- f) Sheet S-3 – This sheet has been revised to clarify the crushed base aggregate road section.
- g) Sheets E-1 through E-8 have been revised and include miscellaneous electrical changes.

4) SPECIFICATIONS

- a) 31 11 01 – Crushed Aggregate Base Course – Has been added to provide details on the crushed base drive surrounding the WTP building. This specification has been added and is attached to

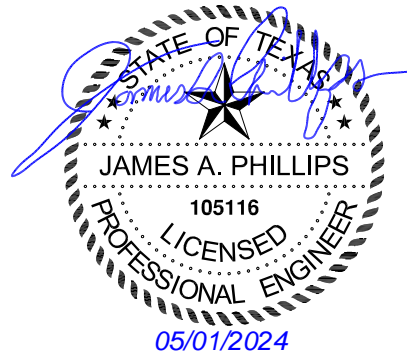
this addendum.

Bidder's Acknowledgment

Date

Prepared by:

JACOB | MARTIN
TBPE Firm No. 2448



CITY OF IDALOU
WATER SYSTEM IMPROVEMENTS – CONTRACT 1 – WATER TREATMENT IMPROVEMENTS
BASE BID - ADDENDUM #1

Show prices in numerals. Round off unit prices to two decimal places only.
 These Bid Prices must include all labor, materials, equipment, insurance, overhead, superintendence,
 transportation, profits & incidentals to cover the finished Work called for in the Contract Documents.

For all Labor, Materials, Equipment and Incidentals to Furnish and Install the Following:

Bid Item	Description	Est. Qty.	Unit	Unit Price	Extended Amount
1	Mobilization, Bonds, and Insurance	1	LS	\$	\$
2	Water Treatment Plant Building	1	LS	\$	\$
3	Site Improvements - Concrete Paving	177	SY	\$	\$
4	Low Profile Sieve Aeration Equipment	1	LS	\$	\$
5	Water Treatment Plant Electrical Improvements	1	LS	\$	\$
6	Water Treatment Plant Control	1	LS	\$	\$
7	Sand Trap	1	EA	\$	\$
8	6" Water Line (Feed and Return)	535	LF	\$	\$
9	2" Water Line	140	LF	\$	\$
10	6" Water Line Connections	2	EA	\$	\$
11	2" Water Line Connections	1	EA	\$	\$
12	8" Gate Valve	2	EA	\$	\$
13	6" Gate Valve	2	EA	\$	\$
14	5,000 Gallon Raw Water Tank	1	EA	\$	\$
15	Backup Generator & ATS	1	EA	\$	\$
16	Fiberglass Chlorine Building	1	EA	\$	\$
17	Metal Tape	675	LF	\$	\$
18	Crushed Base Drive	274	SY	\$	\$
19	6" Feed Water Flow Meter	1	EA	\$	\$
20	VGAC Containers	2	EA	\$	\$
21	Mini Rae 3000 Air Sampler	1	EA	\$	\$
22	Feed Water Booster Pump	1	LS	\$	\$
23	WTP Piping	1	LS	\$	\$
24	Mini Split AC Unit	1	LS	\$	\$
25	Fencing and Gates at VGAC and Head Tank	54	LF	\$	\$
26	Boom Gate	1	LS	\$	\$
27	Double block and bleed assembly vault and 1" connection with Ball Valve	1	LS	\$	\$
28	Project Signage - WTP	1	LS	\$	\$
TOTAL BASE BID (Items 1-28)					\$

ADDITIVE ALTERNATE BID SCHEDULE					
For all Labor, Materials, Equipment and Incidentals to Furnish and Install the Following:					
Bid		Est.		Unit	Extended
Item	Description	Qty.	Unit	Price	Amount
A1	Blower Enclosure	1	LS	\$	\$
A2	Mass Air Flow Gauge	1	EA	\$	\$
A3	Brick Wainscot for WTP Building	1	LS	\$	\$
TOTAL ADDITIVE ALTERNATE BID (Items A1-A3)					\$
TOTAL PROPOSED NUMBER OF DAYS FOR COMPLETION:					

Note: All products used for this project must meet Build America, Buy America (BABAA) domestic preference requirements.

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21132 - City of Idalou Water System Improvements		CRUSHED AGGREGATE BASE COURSE

SECTION 31 11 01 - CRUSHED AGGREGATE BASE COURSE

PART 1 GENERAL

1.1 GENERAL

This item consists of a base course composed of crushed aggregate and binder constructed on the prepared subgrade in accordance with these Specifications and in conformity with the dimensions and typical cross section shown on the Plans to the lines and grades established by the Engineer.

1.2 REFERENCE STANDARDS

AASHTO T 11 - Standard Method of Test for Materials Finer Than 75 Micrometer (No.200) Sieve in Mineral Aggregates by Washing; 2005; R 2013.

AASHTO T 27 - Standard Method of Test for Sieve Analysis of Fine and Coarse Aggregates; 2014.

TxDOT Item 249

TEX-113-E

PART 2 PRODUCTS

2.1 MATERIALS

- A. The aggregate shall be either crushed stone, crushed gravel or crushed slag. The fine aggregate shall be screenings obtained from crushing stone, gravel or slag. Sand or approved binder may be used as filler, but shall not exceed 15 percent by weight of the total combined aggregates.
- B. The crushed stone shall consist of hard durable particles or fragments of stone which is free of an excess of flat or disintegrated pieces, dirt or other objectionable matter.
- C. The crushed gravel shall consist of hard, durable stones, rock and boulders of acceptable quality and gradation and shall be free of an excess of flat or disintegrated pieces, dirt or other objectionable matter. The methods used in production of the crushed gravel shall be such that the finished product shall be as uniform as practical. The crushing of the gravel shall result in a product of which 100% of the material particles will have at least one fractured face. If necessary to meet this requirement or to eliminate an excess of fine particles, the gravel shall be screened before crushing.
- D. The crushed aggregate shall meet the gradation requirements specified in the proposal and given in the following table, using AASHTO T 11 and AASHTO T 27.

TABLE I - REQUIREMENTS FOR GRADATION OF AGGREGATE
TxDOT Item 249, Type A, Grade 1

<u>Sieve Designation</u>	<u>% by Weight Retained</u>
1-3/4 inch	0
7/8 inch	10 - 35
3/8 inch	30 - 50
No. 4 sieve	45 - 65
No. 40 sieve	70 - 85
Maximum P.I.	10
Maximum Liquid Limit	35

- E. All material shall be stockpiled as specified prior to sampling. Samples will be taken from the stockpile by approved sampling techniques, and no deliveries shall be made prior to acceptance of the stockpile by the ENGINEER. The processed material shall be stockpiled to a uniform height. The stockpile shall be a minimum of 15 feet and a maximum of 20 feet in height

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and is to be formed with at least 10 layers with each layer being leveled before placing the next layer. Each layer shall be no more than 2 feet thick. In loading from the stockpile for delivery to the job site, the material shall be loaded by making successive vertical cuts through the entire depth of the stockpile.

- F. The material supplier shall furnish the ENGINEER certification that all materials furnished are from the approved stockpile. The CONTRACTOR shall furnish the ENGINEER certification that no material other than that from the approved stockpile is delivered to the job site and shall also furnish a certified weight ticket for each load of material delivered to the job site.

2.2 ADDITIONAL FINE MATERIAL

- A. If additional fine material in excess to that naturally present in the base course material is necessary for correcting the gradation to the limitations of the specified gradation, for satisfactory bonding of the base material or for changing the soil constants of the material passing the No. 40 mesh sieve, it shall be uniformly blended and mixed with the base course material at the crushing plant or by an approved plant. The additional fine material for this purpose shall be obtained primarily from the crushing of stone or gravel; and when used, shall be of a gradation as necessary to accomplish the specified gradation in the final mixed base course material. The additional fine material may be composed of sand, but the amount of sand shall not exceed 10 percent by weight of the combined base material. The sand shall all pass a No. 40 mesh sieve and not more than 5 percent by weight shall pass a No. 200 mesh sieve.

PART 3 EXECUTION

3.1 CONSTRUCTION METHODS

- A. Operation at Sources of Supply: All work involved in clearing and stripping of quarries and pits including handling unsuitable material encountered shall be performed by the CONTRACTOR at his own expense. The base material shall be obtained from approved sources. The material shall be handled in such a manner that a uniform and satisfactory product will be secured.
- B. Equipment: All equipment necessary for the proper construction of this work shall be on the project site in first class working condition and shall be approved by the ENGINEER before construction is permitted to begin. The flat wheel roller shall be of the three-wheel type, weighing not less than ten tons. The roller shall have a rear wheel compression of not less than 330 pounds per linear inch of tire width and shall be equipped with adjustable scrapers. The pneumatic roller shall consist of pneumatic tired wheels arranged in a manner to provide a satisfactory compacting unit. The roller shall have an effective rolling width of at least 60 inches and shall give a compression of at least 275 pounds per inch of width of tread when fully loaded. Other equipment may be used for compacting and consolidating the base course upon approval by the ENGINEER. Such equipment shall be routed over the area being compacted and shall be operated until the required density is obtained. Equipment for spreading and shaping shall consist of spreader boxes having strike-off templates, screeds or other approved spreading devices which will place the base material in a uniform layer with a minimum of segregation. Provisions shall be made by the CONTRACTOR for furnishing water at the plant or at the site of the work by equipment of ample capacity and of such design as to assure uniform application.
- C. Subgrade: Subgrade and existing street surface shall be prepared as specified and checked and accepted by the ENGINEER before placing and spreading operations are begun. Any ruts or soft, yielding places which appear by reason of improper drainage conditions, hauling or from any other cause shall be corrected and roller to the required compaction before the base course is placed thereon. Grade control between the edges of the gutters shall be by means of grade stakes, steel pins or forms placed in lanes parallel to the center line of the street by the CONTRACTOR and at intervals sufficiently close that string lines or check boards may be

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placed between the stakes, pins or forms.

- D. Plant Mix: The base material shall be uniformly blended during crushing operations in an approved plant. The type of plant may either be a central proportioning and mixing or a traveling mix plant. The plant shall blend and mix the materials to meet these Specifications.
- E. Placing and Spreading: The crushed aggregate base material that has been proportioned in a crushing and screening plant or proportioned and processed in a central mixing plant shall be placed on the prepared subgrade and compacted in layers of thickness of not more than 6 inches.

Depositing and spreading of material shall commence where designated and shall progress continuously without breaks. The material shall be deposited and spread in lanes in a uniform layer and without segregation of size to such loose depth that when compacted the layer will have the required thickness. It shall be the charge of the CONTRACTOR that the required amount of approved material be delivered in each 100-foot station. The base material shall be spread by use of spreader boxes or other approved devices or methods that will spread the material in the required amount in a manner to avoid or minimize the need for re-handling material and to prevent the rutting of underlying course. The spreader boxes or other devices shall be equipped with strike-off templates or screeds that can be adjusted or controlled to secure the required thickness of material. Dumping from vehicles in piles on the subgrade so as to require re-handling will be permitted; however, in such event, the material shall be graded into windrows and sample of material taken from windrows shall meet the gradation specified. Use of motor graders for spreading, manipulating or working the base may be used if desired. METHOD OF PLACING - The base course shall be constructed in a layer of not less than 2-1/2 inches nor more than 6 inches of compacted thickness. The aggregate as spread shall be of uniform gradation with no segregation or pockets of fine or coarse materials. The aggregate, unless other permitted by the ENGINEER, shall not be spread more than 4,000 square yards in advance of the rolling. Any necessary sprinkling shall be kept within these limits. No materials shall be placed in snow or on a soft, muddy or frozen subbase or underlying course.

For the second layer, the construction procedure herein described shall apply.

The ENGINEER will make tests to determine the maximum density and the proper moisture content of the base material and this information will be available to the CONTRACTOR. The base material shall be at a uniform moisture content and optimum moisture content with a tolerance of +/-2% when rolling is started. Any minor variations shall be corrected by sprinkling or by aeration until the specified moisture content is obtained. During the placing and spreading caution shall be exercised to prevent the incorporation of subgrade, subbase or shoulder material in the base course mixture.

- F. Finishing and Compacting: After spreading, the base material shall be thoroughly compacted by rolling and sprinkling when necessary. Any single roller shall perform the rolling for not more than 25 cubic yards per hour and additional rollers shall be provided when spreading is greater than this rate. Rolling shall progress gradually from the sides to the center of the land under construction or from one side toward previously placed material by lapping uniformly each preceding pass by one-half the width of such pass and shall continue until the entire area of the course has been rolled. Rolling shall continue until the base material has been compacted to not less than 100% per TEX-113-E. In addition to the requirements specified for density, the full depth of the base course shown on the Plans shall be compacted to the extent necessary to remain firm and stable under construction equipment. Blading and rolling shall be done alternately as required or as directed to obtain a smooth, even and uniformly compacted base. For final rolling, either 10 ton three-wheel or 8 ton tandem rollers may be used. The course shall not be rolled when the underlying course is soft or yielding or when the rolling causes a wavelike motion in the base course. When the rolling develops irregularities, which exceed 3/8

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inch when tested with a 16 foot straight edge, the irregular surface shall be loosed, refilled with the same kind of materials as that used in constructing the course, and rolled again as required above. Along places inaccessible to rollers, the base course material shall be thoroughly tamped with mechanical or hand tampers. Each hand tamper shall weight not less than 50 pounds and have a face area or not more than 100 square inches.

3.2 TESTING

- A. After the base course is completely compacted, the surface shall be tested for smoothness and accuracy of grade and crown. If any portions are found to lack required smoothness or fail in accuracy of grade or crown, such portions shall be scarified, reshaped, recompactd and otherwise manipulated as the ENGINEER may direct until the required smoothness and accuracy are obtained. The finished surface shall be such that it will not vary more than 3/8 inch from the 16-foot straight edge applied to the surface parallel to the center line and at right angles.

3.3 PROTECTION OF BASE COURSE

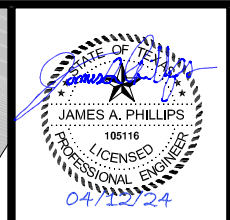
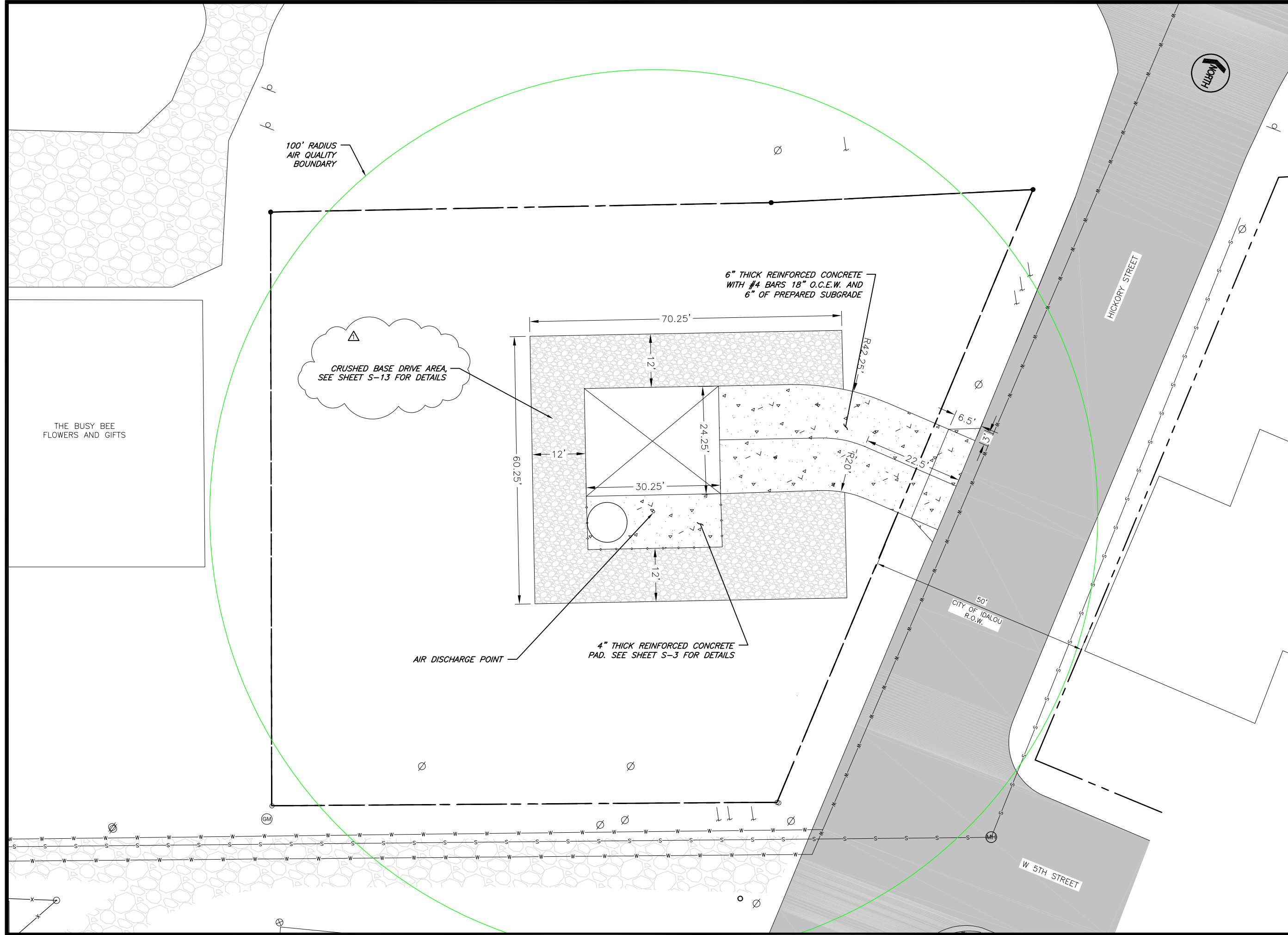
- A. Work on the base course shall not be performed during freezing temperatures nor when the subgrade is wet. When the base materials contain frozen material or the underlying course is frozen, the construction operations shall be stopped. In general, hauling equipment may be routed over completed portions of the base course provided no excessive damage results and such equipment is routed over the full width of the base course to avoid rutting or uneven compaction. However, the ENGINEER shall have full and specific authority to stop all hauling over completed or partially completed base course when, in his opinion, such hauling is causing damage. Any damage resulting to the base course from routing of equipment over the base course shall be repaired by the CONTRACTOR at his own expense.

3.4 MAINTENANCE

- A. Following the final shaping of the material, the base course shall be maintained throughout its entire length by the use of a standard road machine or motor grade and rollers until such time as, in the judgment of the ENGINEER, base course meets the required density, is properly bonded and is suitable for priming. The base shall be properly drained at all times. During this maintenance period, any deficiencies in thickness, composition, smoothness or density shall be corrected in a satisfactory manner.
- B. The CONTRACTOR shall be fully responsible for maintaining and preserving the completed base course during the period prior to surface treatment. Upon completion of the base course, if the asphaltic surface cannot be applied, the CONTRACTOR shall apply an emulsion or primer coat to the base surface in order to afford dust control and assist in base maintenance. CONTRACTOR shall return to the project as often as required to fill holes in the base surface and add primer as required.

-- END OF SECTION --

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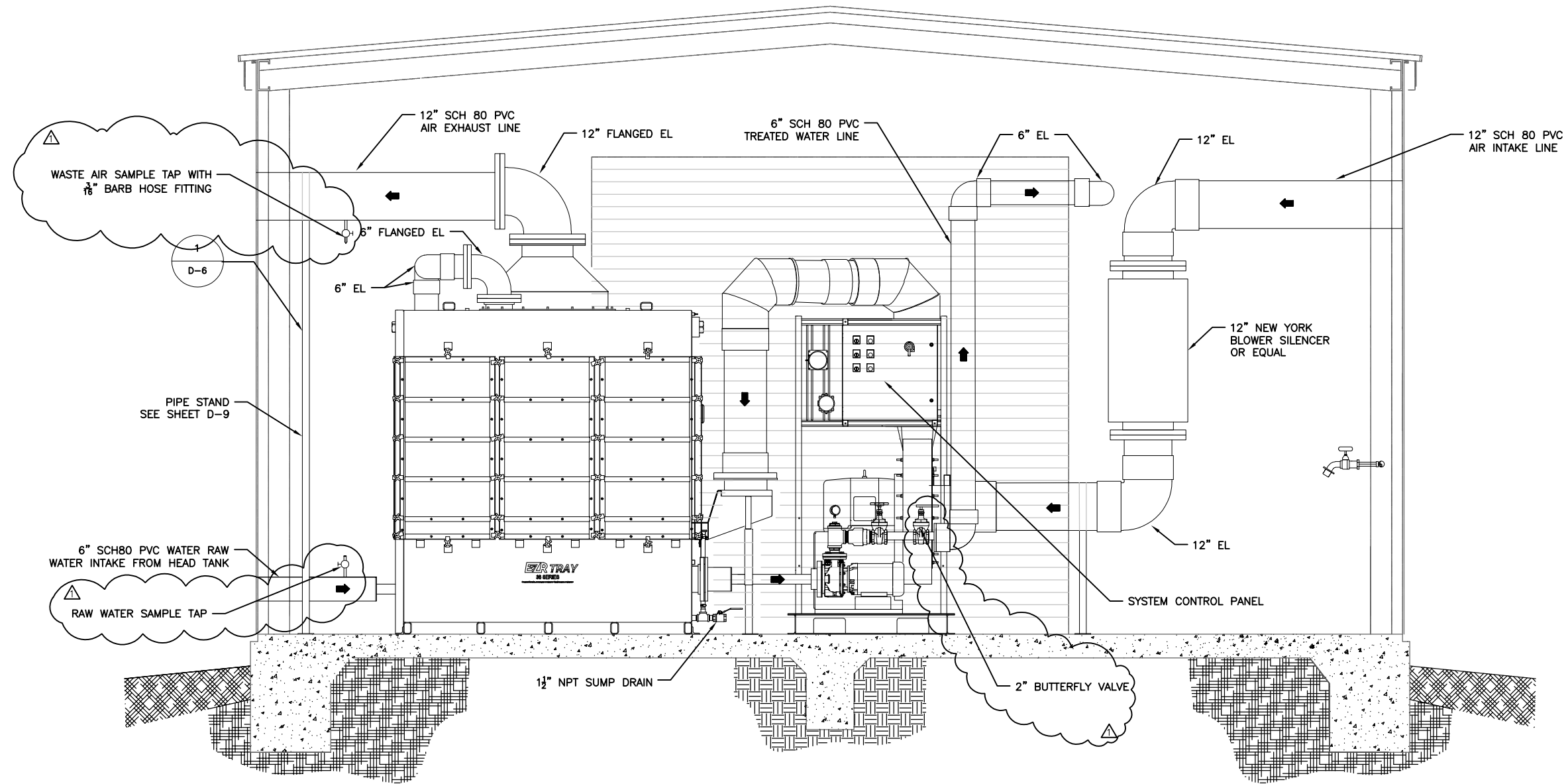
JACOB MARTIN
 TBPE FIRM # 2446
 TBAE FIRM # BR 2261
 TBEF FIRM # 10194493

IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS
 DIMENSIONAL CONTROL PLAN

NO.	REVISION	DATE
1	ADDENDUM #1	04/26/2024
PROJECT #/SCALE 21132 1"=20'		
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING CHECK SCALE AND ADJUST ACCORDINGLY.		
15	SHEET	C-11
47		

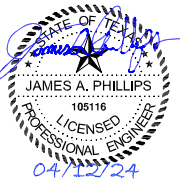
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PIPE SUPPORT NOTES:
 ALL SUSPENDED PIPE TO BE SUPPORTED ON
 PIPE HANGERS, SEE SHEET D-10 FOR DETAILS

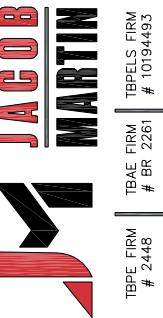


SECTION
 SCALE: 3/8"=1'

2
 D-3 D-5



ISSUED FOR BID



IDALOU, TEXAS
 WATER TREATMENT IMPROVEMENTS

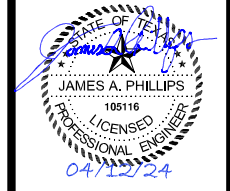
WTP BUILDING SECTION 2

NO. REVISION	DATE	04/26/2024
ADDENDUM #1		
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SEQ.	SHEET	24 47 D-5

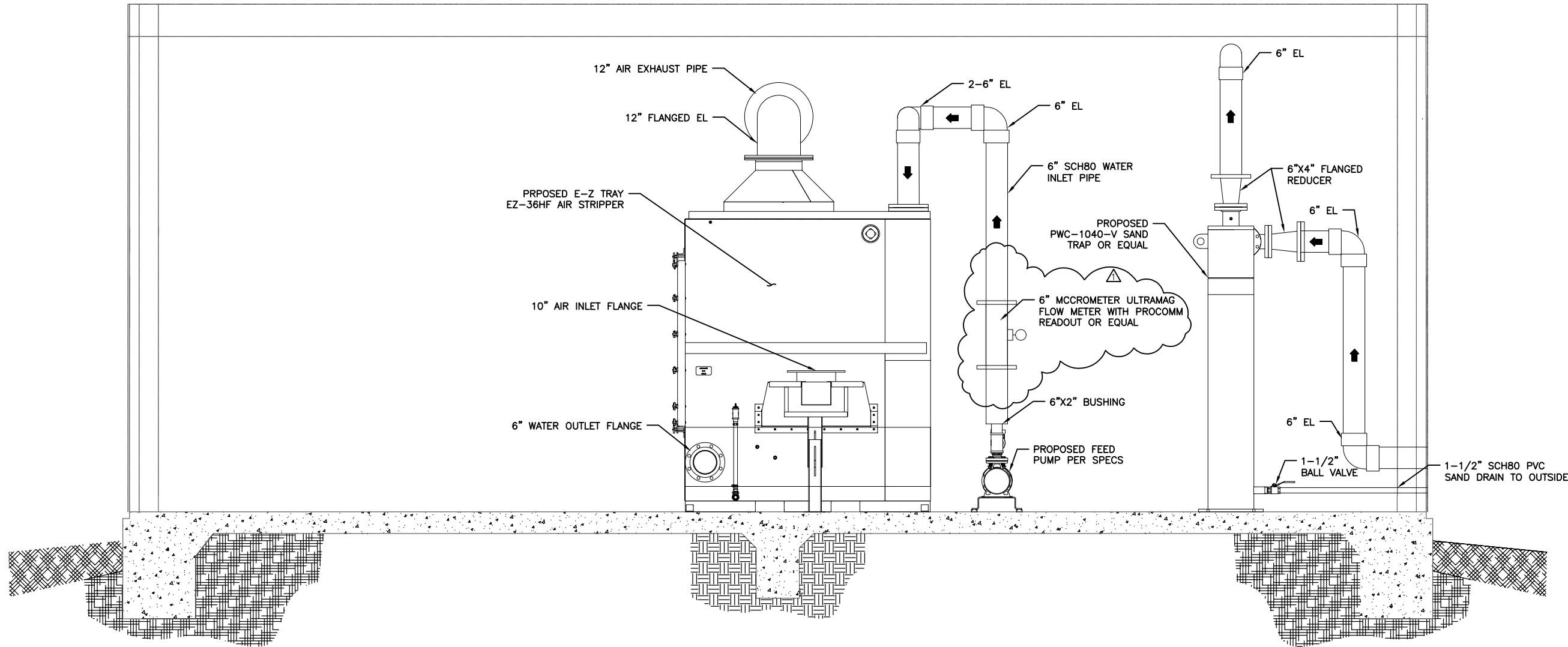
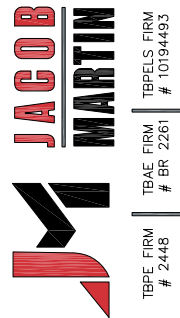
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PIPE SUPPORT NOTES:
ALL SUSPENDED PIPE TO BE SUPPORTED ON PIPE HANGERS, SEE SHEET D-10 FOR DETAILS



ISSUED FOR BID



SECTION 4
SCALE: 3/8"=1'

IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS

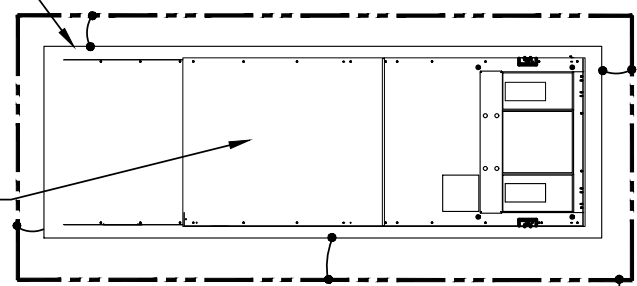
WTP BUILDING SECTION 4

NO.	REVISION	DATE
1	ADDENDUM #1	04/26/2024
PROJECT #	SCALE	BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING
21132	3/8" = 1'	CHECK SCALE AND ADJUST ACCORDINGLY.
SEQ.	SHEET	
26	47	D-7

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PROPOSED CONCRETE GENERATOR SLAB SIZE BASED ON GENERATOR PURCHASED PLUS 6" ON ALL SIDES. REFERENCE GENERATOR PAD DETAIL FOR MORE DETAILS.

GENERATOR SUPPLIED WITH MINIMUM OF A 24 HOUR DIESEL SUB-BASE FUEL TANK



LEGEND	
⊙	GROUND WELL
•	GROUND CONNECTION
---	4/0 MCM BARE COPPER GROUNDING CONDUCTOR
---	2/0 MCM BARE COPPER GROUNDING CONDUCTOR

(1) - #4 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO 3/8" x 10'-0" COPPER CLAD STEEL GROUND ROD.

GENERATOR FOUNDATION & GROUNDING DETAIL NTS

LIGHTING FIXTURE SCHEDULE						
FIXTURE MARK	MANUFACTURER & CATALOG NUMBER	TYPE	LAMPS BULBS	VOLTAGE	SUPPORT	NOTES
A	COOPER MODEL #: BWSL-LD2-100-SPS-UNV- L840-CD1-U-AYC-CHAIN/SET	8' LINEAR	LED	UNV	CEILING MOUNT (SUSPENDED)	LIGHT TO BE PROVIDED WITH A CHAIN MOUNT FROM CEILING AND SUSPENDED AT 11' A.F.F.
A-EM	COOPER MODEL #: BWSL-LD2-100-SPS-UNV-EL14W L840-CD1-U-AYC-CHAIN/SET	8' LINEAR (EMERGENCY)	LED	UNV	CEILING MOUNT (SUSPENDED)	LIGHT TO BE PROVIDED WITH A CHAIN MOUNT FROM CEILING AND SUSPENDED AT 11' A.F.F.
B	COOPER MODEL #: LDWP-FC-4B-120V-PE-BK	WALL PACK	LED	120V	WALL MOUNT	LIGHT TO BE WALL MOUNTED ABOVE AT 11' A.F.F. LIGHT TO BE EQUIPPED WITH A PHOTOCELL.
C	SPECIALITY TOWER LIGHTING LED LIGHT KIT 21" TO 180"	LED OBSTRUCTION LIGHT	LED	120V	TOWER MOUNTED	
D	HYLITE LED LIGHTING MODEL #: HL-AF-750WD-50K-N6-277V-BK-PCK-7-YB-7500	ELEVATED TANK LIGHTING (ALTERNATE BID)	LED	120-277V	POLE MOUNTED	LIGHTS TO BE PROVIDED WITH 20' POLES. CONTRACTOR TO VERIFY LIGHTING ANGLE FOR ADEQUATE LIGHTING. PHOTOCELL TO BE PROVIDED WITH LIGHTS FOR LIGHTING CONTROLS. CONTRACTOR TO PROVIDE LIGHT MOUNTING AS REQUIRED.

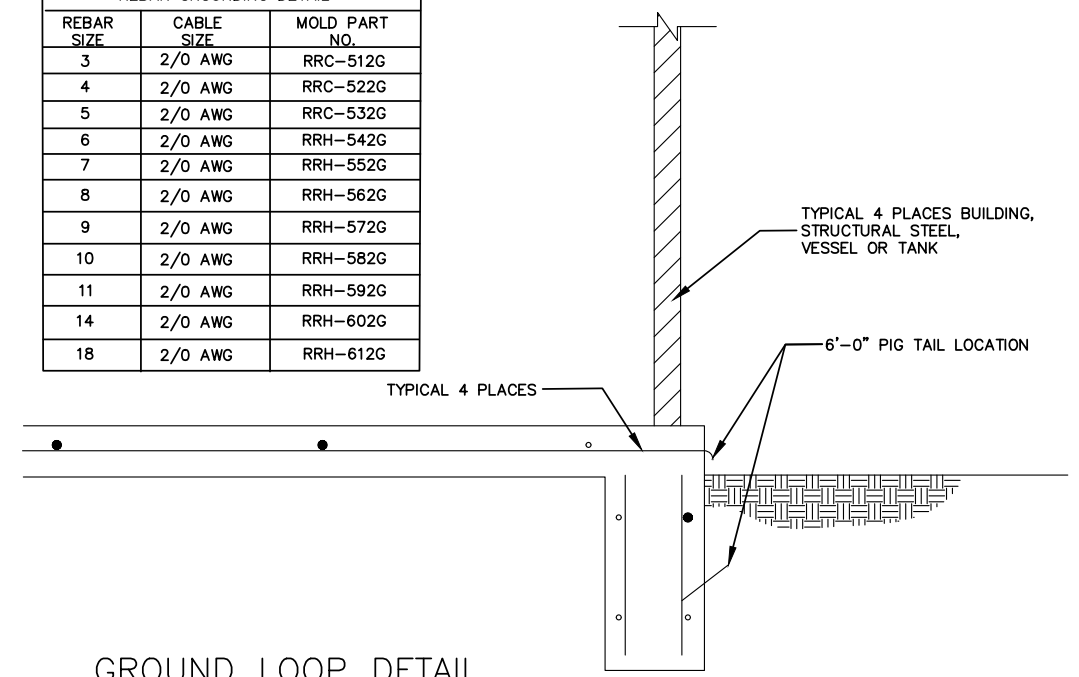
GENERAL ELECTRICAL NOTES:

- NFPA 70 - NATIONAL ELECTRIC CODE: MOST RECENT EDITION ADOPTED BY AUTHORITY HAVING JURISDICTION, INCLUDING ALL APPLICABLE AMENDMENTS AND SUPPLEMENTS.
- ALL CIRCUITS SHALL BE A MINIMUM SIZE OF 12 GAUGE AND A MINIMUM 3/4" CONDUIT.
- ALL CIRCUITS SHALL CONTAIN A GROUND WIRE.
- EACH CIRCUIT SHALL CONTAIN ITS OWN NEUTRAL WIRE. NO NEUTRAL SHARING SHALL BE ALLOWED.
- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SHOWN ON PLAN. USE THHW, THW, THWN, OR XHHW.
- ALL NEW INTERIOR CIRCUITS SHALL BE RAN IN IMT CONDUIT EXPOSED. HOLD CIRCUITS TIGHT TO CEILINGS AND WALLS. DO NOT SUPPORT OFF PIPING OR DUCTWORK. CONDUIT SHALL BE RAN PARALLEL TO BUILDING ELEMENTS AND SHALL BE WELL SUPPORTED.
- CLEAR, READABLE PANEL DIRECTORIES ARE REQUIRED FOR ALL NEW PANELS & EXISTING PANELS THAT ARE MODIFIED UNDER THIS PROJECT.
- LABEL ALL NEW PANELS, TRANSFORMERS, & DISCONNECT SWITCHES WITH ENGRAVED PLASTIC SIGNS, RED BACKGROUND WITH WHITE LETTERS. USE MINIMUM SIZE OF 4"x2". SCREW OR RIVET TO PANEL. SIGN NEEDS TO GIVE PANEL NAME, AMPERAGE, VOLTAGE, & PHASE.
- COORDINATE THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT, DEVICES, FIXED EQUIPMENT, ETC. WITH OWNER PRIOR TO ROUGH-IN-WORK. DO NOT SCALE ELECTRICAL DRAWINGS.
- ELECTRICAL DESIGN PROVIDES A NUMBER OF BRANCH CIRCUITS, PHASES, AMPACITY AND OVERCURRENT PROTECTION CONFORMING TO MANUFACTURE'S SPECIFICATIONS AVAILABLE AT TIME OF DESIGN. IF REQUIREMENTS OF EQUIPMENT ACTUALLY PROVIDED UNDER CONTRACT FOR CONSTRUCTION ARE DIFFERENT, CONTRACTOR SHALL MAKE ALL CHANGES REQUIRED WITHOUT INCREASE IN THE CONTRACT AMOUNT. SUCH CHANGES MAY INCLUDE, BUT ARE NOT LIMITED TO: SIZE OF WIRES, SIZE OF CONDUIT, NUMBER, TYPE AND SIZE OF CIRCUIT BREAKERS, FUSE PROTECTION AND ADDITIONAL DISCONNECT SWITCHES.
- JUNCTION/PULL BOXES LOCATED AT CEILING SHALL BE INSTALLED FACING DOWN AND SHALL BE ACCESSIBLE AFTER INSTALLATION. COORDINATE WITH OTHER TRADES AND STRUCTURE.
- EXISTING UTILITIES. ELECTRICAL EQUIPMENT AND UNDERGROUND OR CONCEALED ITEMS ARE SHOWN FOR REFERENCE ONLY. ADDITIONAL ITEMS NOT SHOWN MAY BE PRESENT AND LOCATIONS MAY DIFFER FROM THAT SHOWN. CONTRACTOR SHALL PERFORM WORK AS TO AVOID DAMAGE TO EXISTING ITEMS. SHALL NOTIFY OWNER AND ENGINEER AT ONCE OF ALL DAMAGE AND SHALL REPAIR DAMAGE TO ORIGINAL CONDITION TO THE SATISFACTION OF OWNER AND ENGINEER AT NO CHANGE IN CONTRACT AMOUNT.
- ELECTRICAL CONTRACTOR SHALL VERIFY EQUIPMENT AND CONDUCTOR SIZE PRIOR TO ORDERING AND INSTALLATION OF ANY EQUIPMENT OR CONDUCTORS. REPORT ALL DISCREPANCIES TO THE ENGINEER.
- CONTRACTOR SHALL PROVIDE SUITABLE MATERIALS AND CONSTRUCTION METHODS TO PREVENT DAMAGE TO CONDUIT SWEEPS RESULTING FROM INSTALLATION OF LARGE CONDUCTORS.
- PROVIDE GRAY SWITCHES AND OUTLETS WITH STAINLESS STEEL COVERS IN METAL ELECTRICAL BOXES.
- ALL OUTLETS TO BE RATED AT A MINIMUM OF 20 AMPS
- THE CONTRACTOR WILL LABEL THE SERVICE DISCONNECT WITH FOLLOWING " THE MAXIMUM AVAILABLE FAULT CURRENT IS _____ AMPS. CALCULATED _____ 2024" NOTE: CALCULATED # AND DATE TO BE SUPPLIED BY JACOB MARTIN. THE LABEL MUST "BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED AS STATED IN THE NEC PARAGRAPH 110.24
- CONTRACTOR WILL REMOVE ALL CABLE SPLICERS AND TWIST ON WIRE CONNECTORS. THEY ARE TO BE REPLACED WITH CIRCUIT CABLES CONNECTED TO BREAKERS OR FUSES FOR OVERCURRENT PROTECTION AS REQUIRED BY THE NEC.

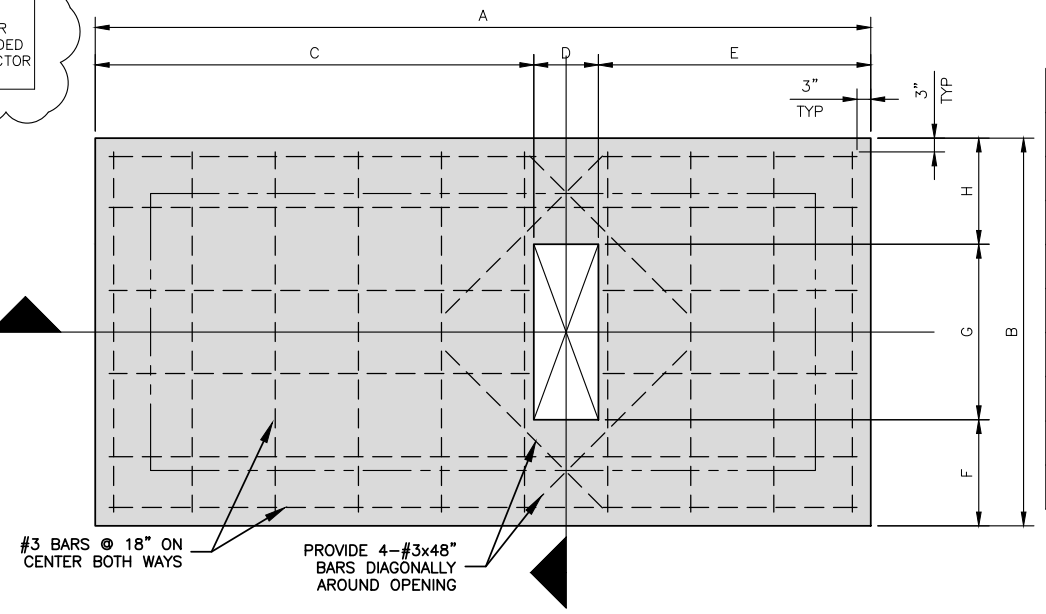
LEGEND	
A, A-EM	NEW 8' LINEAR LIGHT FIXTURE
B	NEW EXTERIOR LIGHT FIXTURE
C	NEW LED OBSTRUCTION LIGHT FIXTURE
J	JUNCTION BOX
S	LIGHT SWITCH
Q	DUPLEX OUTLET
PANEL	BREAKER #
C-5,7	HOMERUN
UE	UNDERGROUND ELECTRICAL SERVICE
OE	OVERHEAD ELECTRICAL SERVICE

ITEM	QUANTITY	MATERIAL DESCRIPTION
1	AS REQ'D	WIRE, 2/0 BARE STRANDED, COPPER, RATED FOR DIRECT BURIAL
2	AS REQ'D	CABLE TO CABLE GROUND, CADWELD PTC-2G2G
3	AS REQ'D	CABLE TO REBAR, SEE REBAR GROUNDING DETAIL FOR PART # THIS SHEET
4	AS REQ'D	GROUNDING CONNECTOR, CADWELD GTC-182G
5	AS REQ'D	GROUND ROD, COPPER, 3/4" X 10'-0" LONG
6	AS REQ'D	GROUND ENHANCEMENT MATERIAL

REBAR SIZE	CABLE SIZE	MOLD PART NO.
3	2/0 AWG	RRC-512G
4	2/0 AWG	RRC-522G
5	2/0 AWG	RRC-532G
6	2/0 AWG	RRH-542G
7	2/0 AWG	RRH-552G
8	2/0 AWG	RRH-562G
9	2/0 AWG	RRH-572G
10	2/0 AWG	RRH-582G
11	2/0 AWG	RRH-592G
14	2/0 AWG	RRH-602G
18	2/0 AWG	RRH-612G



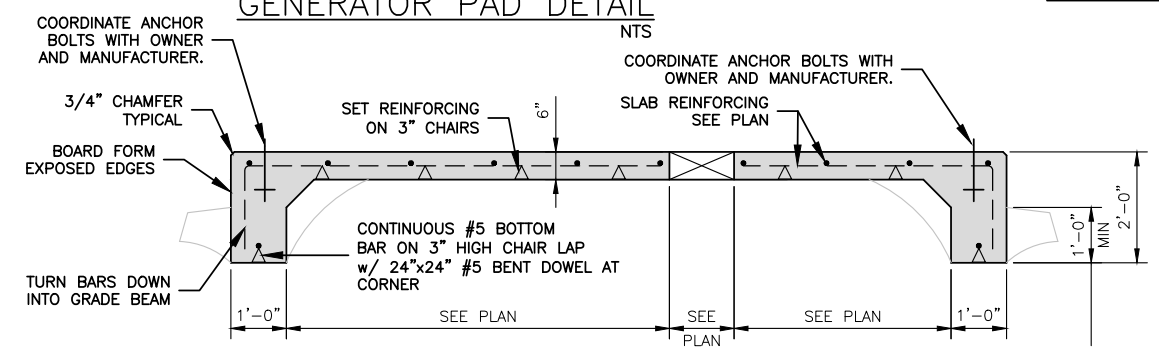
GROUND LOOP DETAIL NTS



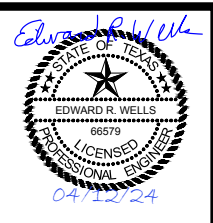
SLAB DIMENSIONS	
LABEL	GENERATOR
A	GENERATOR LENGTH PLUS 1'0"
B	GENERATOR WIDTH PLUS 1'0"
C	REFER TO GENERATOR INSTALLATION DOCUMENTS FOR ELECTRICAL CONDUIT STUB-UPS
D	
E	
F	
G	
H	

NOTE: GC TO COORDINATE ALL SLAB DIMENSIONS WITH FINAL GENERATOR INSTALLATION DOCUMENTS.

GENERATOR PAD DETAIL NTS



SECTION



ISSUED FOR BID

JACOB MARTIN

TBPE FIRM # 2448
TBAE FIRM # BR-2261
TBPELS FIRM # 10194993

IDALOU, TEXAS

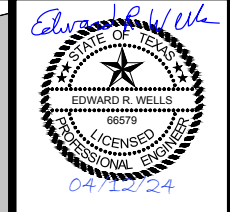
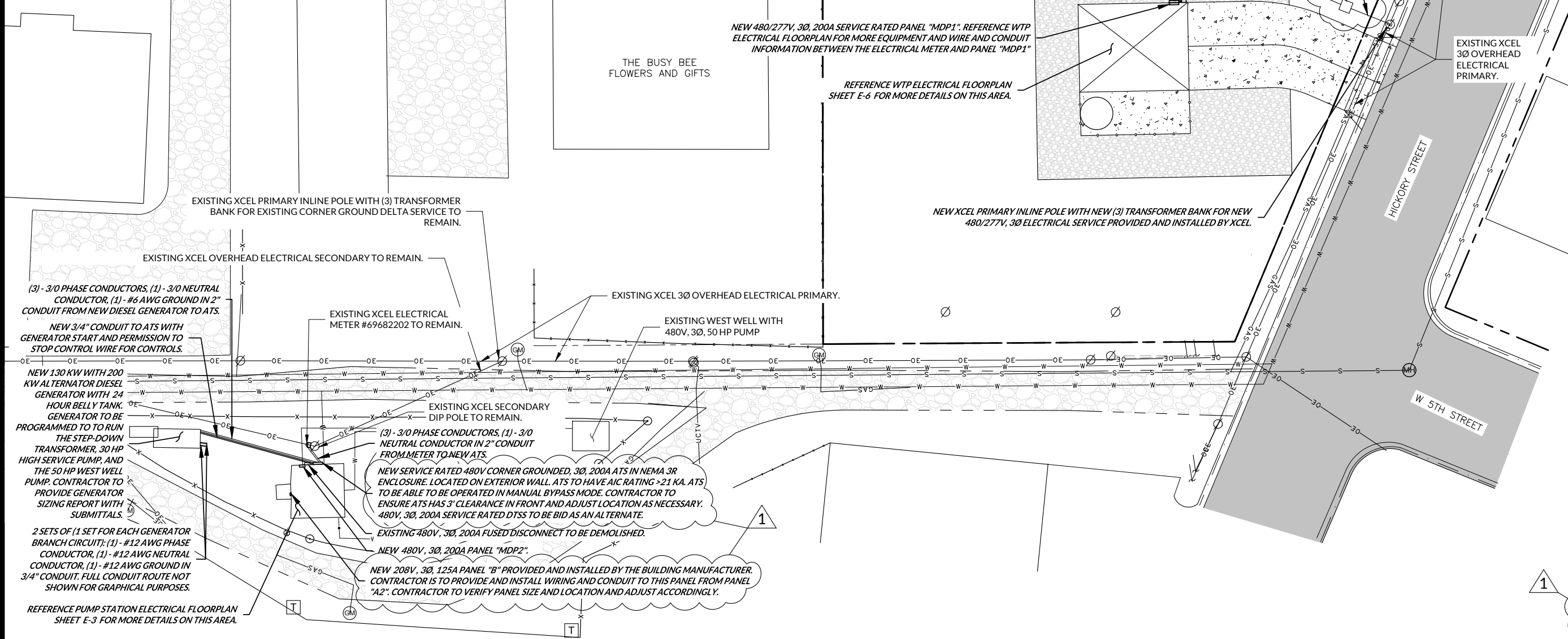
WATER TREATMENT IMPROVEMENTS

ELECTRICAL GENERAL NOTES AND DETAILS

NO.	REVISION	DATE	SCALE	PROJECT #	SHEET
1	ADDENDUM 1	04/26/2024			
36				21132	E-1

x:\idolou\21132-city of idolou 2021 water treatment improvements\Drafting\Plans\E_Electrical\E-2 ELECTRICAL SITE PLAN - WTP.dwg
 Saved By: ccarpenter
 Save Time: 4/30/2024 11:24 AM
 Plotted by: cole carpenter
 Plot Date: 5/1/2024 5:07 PM

- NOTES:**
- EXISTING EQUIPMENT AND LIGHTS ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION.
 - OUTLINE OF ATS OPERATIONS:**
 . WHEN THE ATS DETECTS UNACCEPTABLE UTILITY POWER, THAT ATS WILL SEND A START SIGNAL TO THE STANDBY GENERATOR.
 . WHEN THE ATS DETECTS ACCEPTABLE GENERATOR POWER, THE ATS WILL SWITCH THE LOAD TO GENERATOR POWER.
 . THE ATS WILL STAY ON GENERATOR POWER IF UTILITY POWER IS UNACCEPTABLE.
 . IF THE UTILITY POWER IS ACCEPTABLE, THE ATS WILL SWITCH TO THE UTILITY POWER AND SEND A PERMISSION TO STOP SIGNAL TO THE GENERATOR.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH XCEL AND ANY ELECTRICAL COSTS BY THE UTILITY CONTACT PERSON FOR XCEL IS BRETT BRORMAN, EMAIL: BRETT.A.BRORMAN@XCELENERGY.COM, PHONE NUMBER: (432)-816-7411.
 - GENERATOR IS TO BE BID WITH THE NORMAL WEATHER PROTECTED ENCLOSURE.
 - CONTRACTOR TO MAINTAIN 3' WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC CODE.
 - CONTRACTOR TO VERIFY GENERATOR BRANCH CIRCUITS (BLOCK HEATER, BATTERY CHARGER, ETC.) AND ADJUST BREAKERS AND WIRING ACCORDINGLY.
 - REFERENCE GENERATOR PAD DETAIL SHEET E-1 AND SPECIFICATIONS FOR GENERATOR ANCHOR BOLT REQUIREMENTS.
 - ALL EXISTING UTILITIES TO BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION START.
 - GENERATOR PAD LOCATION SHALL BE GRADED TO DRAIN AROUND AND AWAY FROM THE PAD WITHOUT PONDING.
 - CONTRACTOR TO PROVIDE MINIMUM OF 2 HOURS CUSTOMER GENERATOR TRAINING, CHECK PHASE ROTATION ON ALL PUMPS, AND UTILITY OUTAGE SIMULATION BY UTILITY REMOVING CUTOUT AND CUSTOMER WITNESSING COMPLETE STARTUP ON GENERATOR POWER.



ISSUED FOR BID

JACOB MARTIN

TBPE FIRM # 10194493
 TBPE FIRM # BR-2261
 TBPE FIRM # 2448

IDALOU, TEXAS

WATER TREATMENT IMPROVEMENTS

ELECTRICAL SITE PLAN - WTP

NO.	REVISION	DATE
1	ADDENDUM 1	04/26/2024
37		
49		
E-2		

PROJECT # 21132
 SCALE 1"=30'
 BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING.
 CHECK SCALE AND ADJUST ACCORDINGLY.

(3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 2" CONDUIT FROM NEW DIESEL GENERATOR TO ATS. REFERENCE ELECTRICAL SITE PLAN SHEET E-2 FOR FULL CONDUIT ROUTE.

NEW 3/4" CONDUIT TO ATS WITH GENERATOR START AND PERMISSION TO STOP CONTROL WIRE FOR CONTROLS. REFERENCE ELECTRICAL SITE PLAN SHEET E-2 FOR FULL CONDUIT ROUTE.

(3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM METER TO NEW ATS. REFERENCE ELECTRICAL SITE PLAN SHEET E-2 FOR FULL CONDUIT ROUTE.

(3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM ATS TO PANEL "MDP2".

NEW 480V, 3Ø, 200A PANEL "MDP2". CONTRACTOR TO VERIFY ALL EXISTING 480V LOADS ARE WIRED THROUGH THIS PANEL AND PROVIDE ALL WIRING AND CONDUIT PER NEC CODE.

EXISTING 480V, 3Ø, 200A FUSED DISCONNECT TO BE DEMOLISHED.

NEW SERVICE RATED 480V CORNER GROUNDED, 3Ø, 200A ATS IN NEMA 3R ENCLOSURE. ATS TO HAVE >21 KA AIC RATING. ATS TO BE ABLE TO OPERATE IN MANUAL BYPASS MODE. 480V, 3Ø, 200A SERVICE RATED DTSS TO BE BID AS AN ALTERNATE.

NEW 208/120V, 3Ø, 60A MCB IN A 200A FRAME PANEL "A2". EXISTING 240/120V LOADS TO BE WIRED THROUGH PANEL "A2" PER NEC CODE.

(3) - #4 AWG PHASE CONDUCTORS, (1) - #4 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 1-1/4" CONDUIT FROM STEP-DOWN TRANSFORMER TO PANEL "A2".

NEW 480:208/120V, 3Ø, 10 KVA STEP-DOWN TRANSFORMER TO REPLACE EXISTING 2 KVA TRANSFORMER.

MDP2-7,9,11

(3) - #10 AWG PHASE CONDUCTORS, (1) - #10 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 3/4" CONDUIT FROM PANEL "MDP2" TO STEP-DOWN TRANSFORMER.

EXISTING 480V, 3Ø SOFT START FOR 30 HP HIGH SERVICE PUMP WIRED THROUGH HIGH SERVICE PUMP PANEL TO REMAIN.

EXISTING 480V, 3Ø HIGH SERVICE PUMP PANEL FOR 30 HP HIGH SERVICE PUMP TO REMAIN.

EXISTING 480V, 3Ø VFD FOR 50 HP WEST WELL PUMP TO REMAIN.

EXISTING 480V, 3Ø, 30 HP, NEMA CODE F HIGH SERVICE PUMP TO REMAIN.

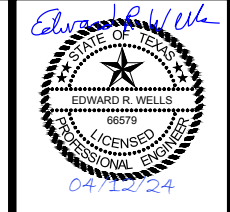
(3) - #1 AWG PHASE CONDUCTORS, (1) - #1 AWG NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 1-1/2" CONDUIT FROM PANEL "A2" TO PANEL "B" PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS TO VERIFY CONDUIT ROUTE (FULL CONDUIT ROUTE NOT SHOWN FOR GRAPHICAL PURPOSES). THE ONLY WORK BY THE CONTRACTOR TO THE CHLORINE BUILDING IS TO PROVIDE AND INSTALL WIRING AND CONDUIT TO PANEL "B" AND LAND WIRING ON THE MAIN LUGS OF THE PANEL. CONTRACTOR IS TO VERIFY PANEL SIZE WITH BUILDING MANUFACTURER AND ADJUST CONDUIT, WIRING, AND BREAKER SIZE PER NEC CODE.

NEW 208V, 3Ø, 125A PANEL "B" PROVIDED AND INSTALLED BY THE BUILDING MANUFACTURER. CONTRACTOR IS TO PROVIDE AND INSTALL WIRING AND CONDUIT TO THIS PANEL FROM PANEL "A2". CONTRACTOR TO VERIFY PANEL SIZE AND LOCATION AND ADJUST ACCORDINGLY.

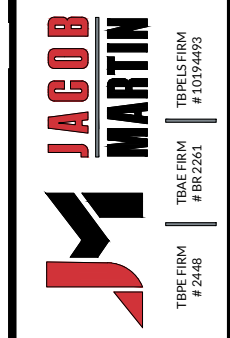
EXISTING AIR COMPRESSOR TO BE REMOVED AND RETURNED TO THE OWNER.

EXISTING AIR COMPRESSOR DISCONNECT AND ASSOCIATED WIRING AND CONDUIT TO BE DEMOLISHED.

- NOTES:
- EXISTING EQUIPMENT AND LIGHTS ARE FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION.
 - OUTLINE OF ATS OPERATIONS:
 - WHEN THE ATS DETECTS UNACCEPTABLE UTILITY POWER, THAT ATS WILL SEND A START SIGNAL TO THE STANDBY GENERATOR.
 - WHEN THE ATS DETECTS ACCEPTABLE GENERATOR POWER, THE ATS WILL SWITCH THE LOAD TO GENERATOR POWER.
 - THE ATS WILL STAY ON GENERATOR POWER IF UTILITY POWER IS UNACCEPTABLE.
 - IF THE UTILITY POWER IS ACCEPTABLE, THE ATS WILL SWITCH TO THE UTILITY POWER AND SEND A PERMISSION TO STOP SIGNAL TO THE GENERATOR.
 - ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH XCEL AND ANY ELECTRICAL COSTS BY THE UTILITY CONTACT PERSON FOR XCEL IS BRETT BRORMAN, EMAIL: BRETT.A.BRORMAN@XCELENERGY.COM, PHONE NUMBER: (432)-816-7411.
 - GENERATOR IS TO BE BID WITH THE NORMAL WEATHER PROTECTED ENCLOSURE.
 - CONTRACTOR TO MAINTAIN 3' WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC CODE.
 - CONTRACTOR TO VERIFY GENERATOR BRANCH CIRCUITS (BLOCK HEATER, BATTERY CHARGER, ETC.) AND ADJUST BREAKERS AND WIRING ACCORDINGLY.
 - REFERENCE GENERATOR PAD DETAIL SHEET E-1 AND SPECIFICATIONS FOR GENERATOR ANCHOR BOLT REQUIREMENTS.
 - ALL EXISTING UTILITIES TO BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION START.
 - GENERATOR PAD LOCATION SHALL BE GRADED TO DRAIN AROUND AND AWAY FROM THE PAD WITHOUT PONDING.
 - CONTRACTOR TO PROVIDE MINIMUM OF 2 HOURS CUSTOMER GENERATOR TRAINING, CHECK PHASE ROTATION ON ALL PUMPS, AND UTILITY OUTAGE SIMULATION BY UTILITY REMOVING CUTOFF AND CUSTOMER WITNESSING COMPLETE STARTUP ON GENERATOR POWER.

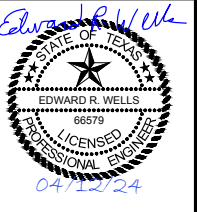


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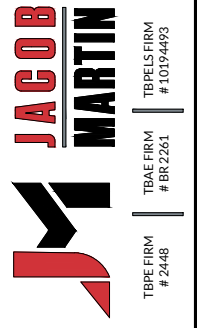


WATER TREATMENT IMPROVEMENTS
PUMP STATION ELECTRICAL FLOORPLAN

NO.	REVISION	DATE
1	ADDENDUM 1	04/26/2024
38	SHEET	
49		
21132	PROJECT #	
1/2"=1'-0"	SCALE	
	BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING.	
	CHECK SCALE AND ADJUST ACCORDINGLY.	



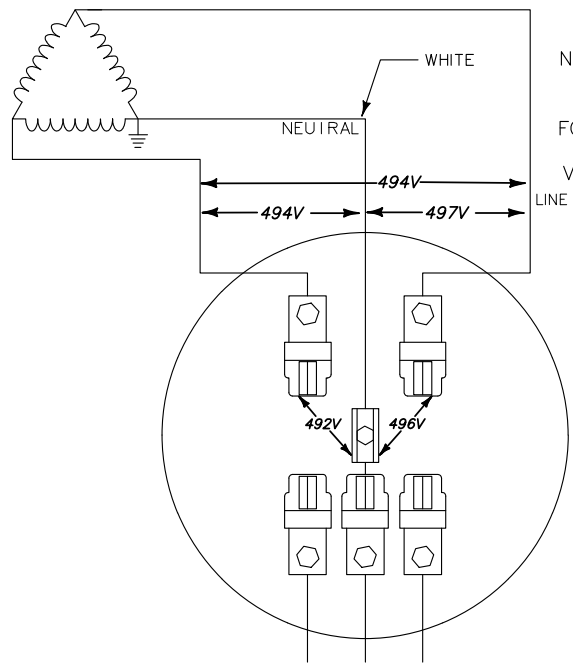
ISSUED FOR BID



IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS

PUMP STATION ELECTRICAL RISER DIAGRAM

NO.	REVISION	DATE
1	ADDENDUM 1	04/26/2024
39		
49		
21132		
PROJECT #	SCALE	NTS
21132		
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.		

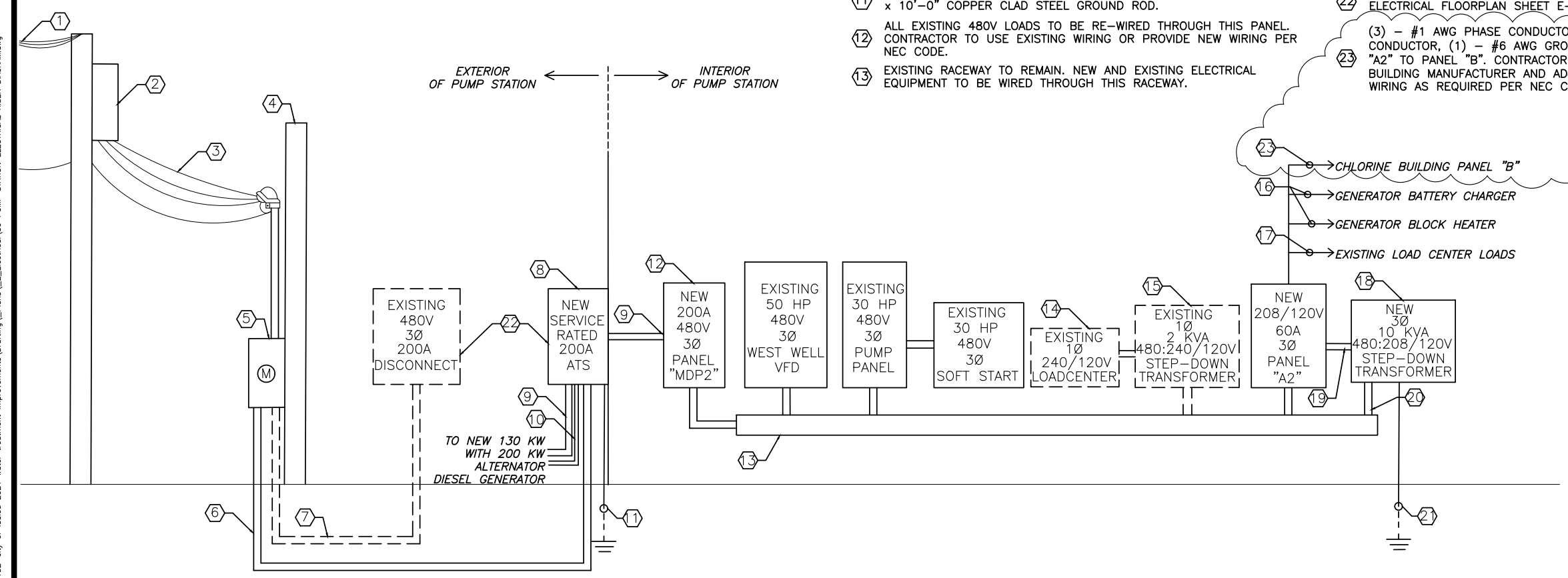


NOTE: VOLTAGES WERE MEASURED ON 8/31/23 AND ARE FOR REFERENCE ONLY. CONTRACTOR IS TO VERIFY ALL VOLTAGES.

LOAD
3 WIRE 480 VOLT THREE PHASE SELF CONTAINED CENTER PHASE DISCONNECT EXISTING XCEL ELECTRICAL SERVICE NTS

ELECTRICAL NOTES BY REFERENCE (#)

- 1 EXISTING XCEL OVERHEAD ELECTRICAL PRIMARY TO REMAIN.
- 2 EXISTING XCEL (3) TRANSFORMER BANK ON EXISTING ONCOR PRIMARY INLINE POLE FOR EXISTING 480V, 3Ø CORNER GROUNDED DELTA ELECTRICAL SERVICE TO REMAIN.
- 3 EXISTING XCEL OVERHEAD 480V, 3Ø ELECTRICAL SECONDARY TO REMAIN.
- 4 EXISTING XCEL SECONDARY DIP POLE TO REMAIN.
- 5 EXISTING POLE MOUNTED XCEL ELECTRICAL METER #69682202, MAST, WEATHERHEAD, AND WIRING TO REMAIN.
- 6 (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM METER TO BUILDING MOUNTED ATS.
- 7 EXISTING 480V, 3Ø, 200A FUSED SERVICE RATED DISCONNECT AND ASSOCIATED WIRING AND CONDUIT TO BE DEMOLISHED.
- 8 BOND NEUTRAL TO GROUND IN THIS PANEL. NEW 480V, 3Ø, 200A SERVICE RATED ATS TO HAVE AIC RATING >21KA AND BE IN A NEMA 3R ENCLOSURE. ATS TO BE ABLE TO BE OPERATED IN MANUAL MODE. SERVICE RATED DTSS TO BE BID AS AN ALTERNATE.
- 9 (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 2" CONDUIT.
- 10 NEW 3/4" CONDUIT TO DIESEL GENERATOR FOR GENERATOR STOP AND PERMISSION TO STOP CONTROL WIRE.
- 11 (1) - #4 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD.
- 12 ALL EXISTING 480V LOADS TO BE RE-WIRED THROUGH THIS PANEL. CONTRACTOR TO USE EXISTING WIRING OR PROVIDE NEW WIRING PER NEC CODE.
- 13 EXISTING RACEWAY TO REMAIN. NEW AND EXISTING ELECTRICAL EQUIPMENT TO BE WIRED THROUGH THIS RACEWAY.
- 14 EXISTING LOAD CENTER AND ASSOCIATED CONDUIT AND WIRING TO BE DEMOLISHED AND REPLACED WITH NEW PANEL "A2". CONTRACTOR TO ENSURE ALL 240/120V LOADS ARE WIRED THROUGH NEW PANEL "A2" AND PROVIDE ALL WIRE AND CONDUIT TO PANEL "A2" FOR EXISTING AND NEW ELECTRICAL LOADS.
- 15 EXISTING 2 KVA STEP-DOWN TRANSFORMER AND ASSOCIATED WIRING AND CONDUIT TO BE DEMOLISHED AND REPLACED WITH NEW 10 KVA STEP-DOWN TRANSFORMER.
- 16 (1) - #12 AWG PHASE CONDUCTOR, (1) - #12 AWG NEUTRAL CONDUCTOR, (1) - #12 AWG GROUND IN 3/4" CONDUIT TO DIESEL GENERATOR FOR GENERATOR BRANCH CIRCUITS.
- 17 CONTRACTOR TO PROVIDE ALL CONDUIT AND WIRING FOR EXISTING 240/120V LOADS TO NEW PANEL "A2" PER NEC CODE.
- 18 BOND NEUTRAL TO GROUND IN THIS PANEL.
- 19 (3) - #4 AWG PHASE CONDUCTORS, (1) - #4 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 1-1/4" CONDUIT FROM STEP-DOWN TRANSFORMER TO PANEL "A2".
- 20 (3) - #10 AWG PHASE CONDUCTORS, (1) - #10 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 3/4" CONDUIT FROM PANEL "MDP2" TO STEP-DOWN TRANSFORMER.
- 21 (1) - #10 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD.
- 22 BOTH DISCONNECT AND ATS ARE BUILDING MOUNTED. REFERENCE ELECTRICAL FLOORPLAN SHEET E-3 FOR ACCURATE LAYOUT.
- 23 (3) - #1 AWG PHASE CONDUCTORS, (1) - #1 AWG NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 1-1/2" CONDUIT FROM PANEL "A2" TO PANEL "B". CONTRACTOR IS TO VERIFY PANEL SIZE WITH BUILDING MANUFACTURER AND ADJUST BREAKER SIZE, CONDUIT, AND WIRING AS REQUIRED PER NEC CODE.



ELECTRICAL RISER DIAGRAM NTS

1

Plot Date: 5/1/2024 5:07 PM
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 Saved By: ccarpenter
 Save Time: 4/30/2024 11:25 AM
 Plotted by: cole carpenter
 Plot Date: 5/1/2024 5:07 PM

**City of Idalou Pump Station
Panel "MDP2" Schedule**

Main Breaker Rating: 200 AMPS 3 Phase 4 Wire 480V
 M.L.O. Bus Rating: 200 AMPS
 Sym. Inter. Cap.: >21k AMPS

 Surface Mount.: X NEMA 1: X
 Flush Mount.: _____ NEMA 3R: _____

Conductor Color Code

Phase 1 ----- BROWN
 Phase 2 ----- ORANGE
 Phase 3 ----- YELLOW
 Neutral ----- WHITE or GRAY
 Ground ----- GREEN

Load

Phase 1 Load: 117
 Phase 2 Load: 117
 Phase 3 Load: 117

Note: Corner Grounded 480V Delta Service
 Note: Contractor to provide Surge Protection Device (SPD)

POLE	SERVICE	W	LOAD			BREAKER	POLE	PHASE			POLE	SERVICE	W	LOAD			BREAKER	POLE
			PHASE					PHASE										
			1	2	3			1	2	3								
1	Existing Well Pump Control Panel for	53976	65			90 / 3	1	X			2	Existing Pump Control Panel for	33216	40			70 / 3	2
3	50 HP West Well Pump (Note 1)			65			3		X		4	30 HP High Service Pump			40			4
5	"				65		5			X	6	"				40		6
7	New 10 KVA Stepdown Transformer	10000	12			20 / 3	7	X			8							8
9	277/480V 3P to 120/208V 3P			12			9		X		10							10
11	"				12		11			X	12							12
13							13	X			14							14
15							15		X		16							16
17							17			X	18							18
19							19	X			20	SPD						20
21							21		X		22	SPD						22
23							23			X	24	SPD						24

Notes:

- Contractor to verify breaker size of existing VFD and adjust wiring, conduit, and breaker as required per NEC code.
- Contractor is to verify all existing 480V loads are accounted for on this panel and provide wiring, conduit, and breaker for existing loads as required per NEC code.

**City of Idalou Pump Station
Panel "A2" Schedule**

Main Breaker Rating: 60 AMPS 3 Phase 4 Wire 208/120 VAC
 M.L.O. Bus Rating: 200 AMPS
 Sym. Inter. Cap.: _____ AMPS

 Surface Mount.: X NEMA 1: X
 Flush Mount.: _____ NEMA 3R: _____

Conductor Color Code

Phase 1 ----- BLACK
 Phase 2 ----- RED
 Phase 3 ----- BLUE
 Neutral ----- WHITE or GRAY
 Ground ----- GREEN

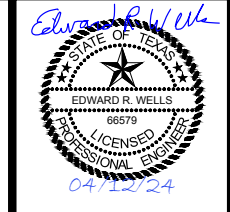
Load

Phase 1 Load: 28
 Phase 2 Load: 33
 Phase 3 Load: 16

POLE	SERVICE	W	LOAD			BREAKER	POLE	PHASE			POLE	SERVICE	W	LOAD			BREAKER	POLE
			PHASE					PHASE										
			1	2	3			1	2	3								
1	New Generator Battery Charger (Note 1)	600	5			20 / 1	1	X			2	Existing Load in Load Center (Note 2)	1200	10			20 / 1	2
3	New Generator Block Heater (Note 1)	1200		10		20 / 1	3		X		4	Existing Load in Load Center (Note 2)	1200		10		20 / 1	4
5	Heat tape (Note 3)	360			3	20 / 1	5			X	6	Heat tape (Note 3)	360			3	20 / 1	6
7	New Chlorine Building Panel "B"	3598	10			125 / 3	7	X			8	Heat tape (Note 3)	360	3			20 / 1	8
9	(Note 5)			10			9		X		10	Heat tape (Note 3)	360		3		20 / 1	10
11	"				10		11			X	12							12
13							13	X			14							14
15							15		X		16							16
17							17			X	18							18

Notes:

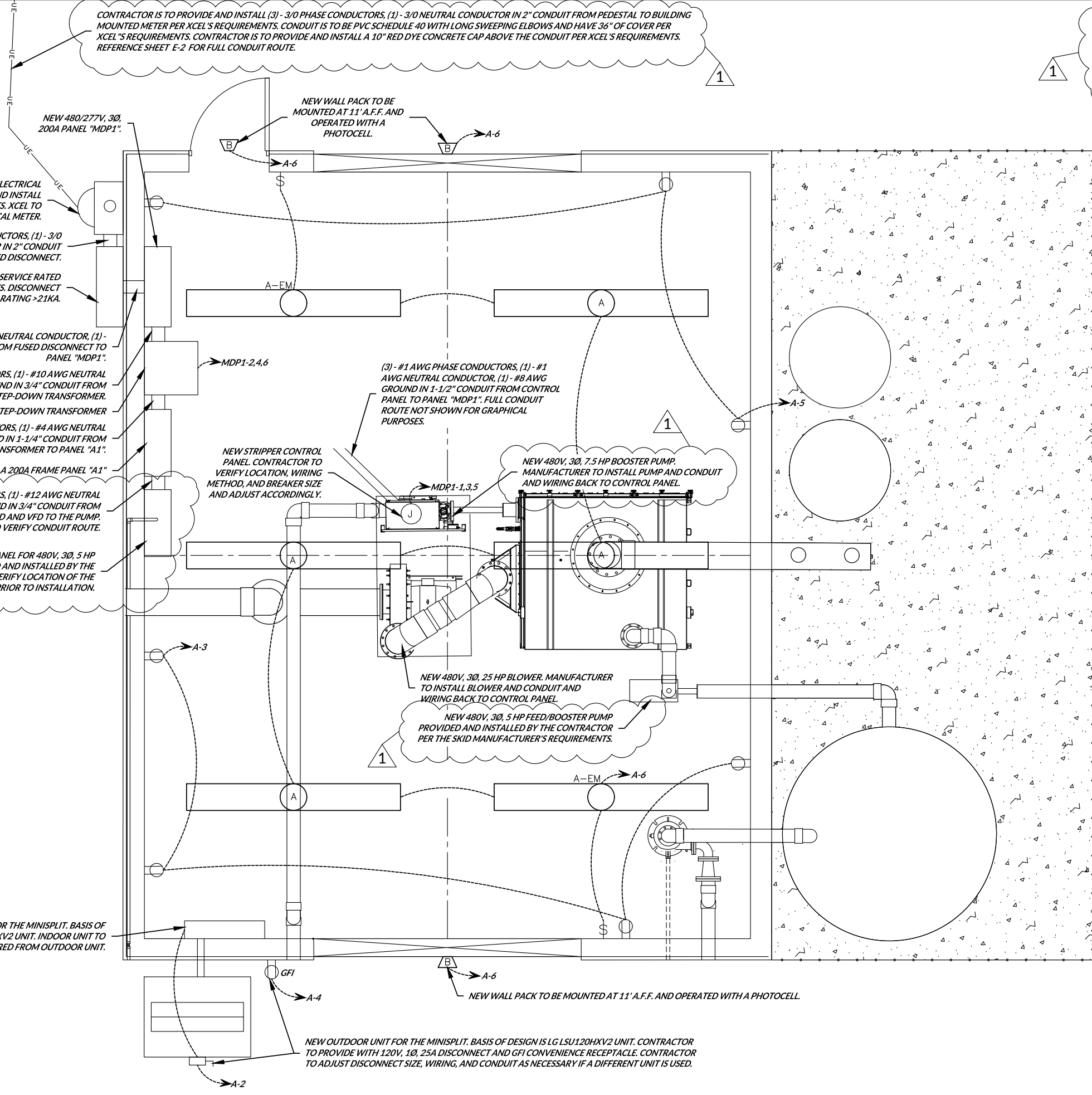
- Contractor to verify generator branch circuit breaker size with generator manufacturers and adjust wiring, conduit, and breakers as required per NEC code.
- Contractor to verify existing load breaker size and adjust breaker, wiring, and conduit as required per NEC code.
- Contractor is to install breaker only for these loads. No wiring or conduit is to be installed with these loads as part of this project.
- Contractor is to verify all existing loads are accounted for on this panel and provide wiring, conduit, and breakers as per NEC code for all existing loads in the pump station.
- Chlorine building panel is provided and installed by the building manufacturer. The only work to the chlorine building by the contractor is to provide and install the breaker in this panel, conduit and wiring to panel "B" and land the wiring on the panel lugs. Contractor is to verify panel size with building manufacturer and adjust breaker size, conduit, and wiring as necessary per NEC code.



IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS
PUMP STATION ELECTRICAL PANEL SCHEDULES

DATE	04/26/2024
NO. REVISION	ADDENDUM 1
SEQ.	40
SHEET	49
PROJECT #	21132
SCALE	NTS
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.	

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 Plotted by: cole carpenter
 Plot Date: 5/1/2024 5:07 PM



CONTRACTOR IS TO PROVIDE AND INSTALL (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM PEDESTAL TO BUILDING MOUNTED METER PER XCEL'S REQUIREMENTS. CONDUIT IS TO BE PVC SCHEDULE 40 WITH LONG SWEEPING ELBOWS AND HAVE 36" OF COVER PER XCEL'S REQUIREMENTS. CONTRACTOR IS TO PROVIDE AND INSTALL A 10" RED DYE CONCRETE CAP ABOVE THE CONDUIT PER XCEL'S REQUIREMENTS. REFERENCE SHEET E-2 FOR FULL CONDUIT ROUTE.

NEW 480/277V, 3Ø, 200A PANEL "MDP1".

NEW WALL PACK TO BE MOUNTED AT 11' A.F.F. AND OPERATED WITH A PHOTOCELL.

NEW XCEL BUILDING MOUNTED ELECTRICAL METER. CONTRACTOR TO PROVIDE AND INSTALL METER CAN PER XCEL'S REQUIREMENTS. XCEL TO PROVIDE AND INSTALL ELECTRICAL METER.

(3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM METER TO FUSED DISCONNECT.

NEW 480/277V, 3Ø, 200A FUSED SERVICE RATED DISCONNECT PER XCEL'S REQUIREMENTS. DISCONNECT TO HAVE AIC RATING >21KA.

(3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 2" CONDUIT FROM FUSED DISCONNECT TO PANEL "MDP1".

(3) - #10 AWG PHASE CONDUCTORS, (1) - #10 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 3/4" CONDUIT FROM PANEL "MDP1" TO STEP-DOWN TRANSFORMER.

NEW 480:208/120V, 3Ø, 15 KVA STEP-DOWN TRANSFORMER

(3) - #4 AWG PHASE CONDUCTORS, (1) - #4 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 1-1/4" CONDUIT FROM STEP-DOWN TRANSFORMER TO PANEL "A1".

NEW 208/120V, 3Ø, 60A MCB IN A 200A FRAME PANEL "A1"

(3) - #12 AWG PHASE CONDUCTORS, (1) - #12 AWG NEUTRAL CONDUCTOR, (1) - #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL "MDP1" TO THE NEW 5 HP VFD AND VFD TO THE PUMP. CONTRACTOR TO VERIFY CONDUIT ROUTE.

NEW VFD AND PUMP CONTROL PANEL FOR 480V, 3Ø, 5 HP FEED PUMP PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR TO VERIFY LOCATION OF THE VFD AND PUMP CONTROL PANEL PRIOR TO INSTALLATION.

NEW STRIPPER CONTROL PANEL. CONTRACTOR TO VERIFY LOCATION, WIRING METHOD, AND BREAKER SIZE AND ADJUST ACCORDINGLY.

(3) - #1 AWG PHASE CONDUCTORS, (1) - #1 AWG NEUTRAL CONDUCTOR, (1) - #8 AWG GROUND IN 1-1/2" CONDUIT FROM CONTROL PANEL TO PANEL "MDP1". FULL CONDUIT ROUTE NOT SHOWN FOR GRAPHICAL PURPOSES.

NEW 480V, 3Ø, 7.5 HP BOOSTER PUMP. MANUFACTURER TO INSTALL PUMP AND CONDUIT AND WIRING BACK TO CONTROL PANEL.

NEW 480V, 3Ø, 25 HP BLOWER. MANUFACTURER TO INSTALL BLOWER AND CONDUIT AND WIRING BACK TO CONTROL PANEL.

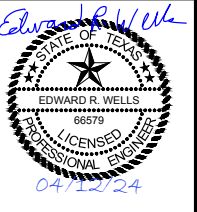
NEW 480V, 3Ø, 5 HP FEED/BOOSTER PUMP PROVIDED AND INSTALLED BY THE CONTRACTOR PER THE SKID MANUFACTURER'S REQUIREMENTS.

NEW INDOOR UNIT FOR THE MINISPLIT. BASIS OF DESIGN IS LG LSN120HXV2 UNIT. INDOOR UNIT TO BE POWERED FROM OUTDOOR UNIT.

NEW OUTDOOR UNIT FOR THE MINISPLIT. BASIS OF DESIGN IS LG LSU120HXV2 UNIT. CONTRACTOR TO PROVIDE WITH 120V, 1Ø, 25A DISCONNECT AND GFI CONVENIENCE RECEPTACLE. CONTRACTOR TO ADJUST DISCONNECT SIZE, WIRING, AND CONDUIT AS NECESSARY IF A DIFFERENT UNIT IS USED.

NOTES:

- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONTACTING AND COORDINATING WITH XCEL AND ANY ELECTRICAL COSTS BY THE UTILITY CONTACT PERSON FOR XCEL IS BRETT BRORMAN, EMAIL: BRETT.A.BRORMAN@XCELENERGY.COM, PHONE NUMBER: (432)-816-7411.
- CONTRACTOR TO MAINTAIN 3' WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT PER NEC CODE.
- ALL EXISTING UTILITIES TO BE LOCATED BY CONTRACTOR PRIOR TO CONSTRUCTION START.



ISSUED FOR BID

JACOB MARTIN

TBPE FIRM # 2448
 TBPE FIRM # BR-261
 TBPE FIRM # 10794953

IDALOU, TEXAS

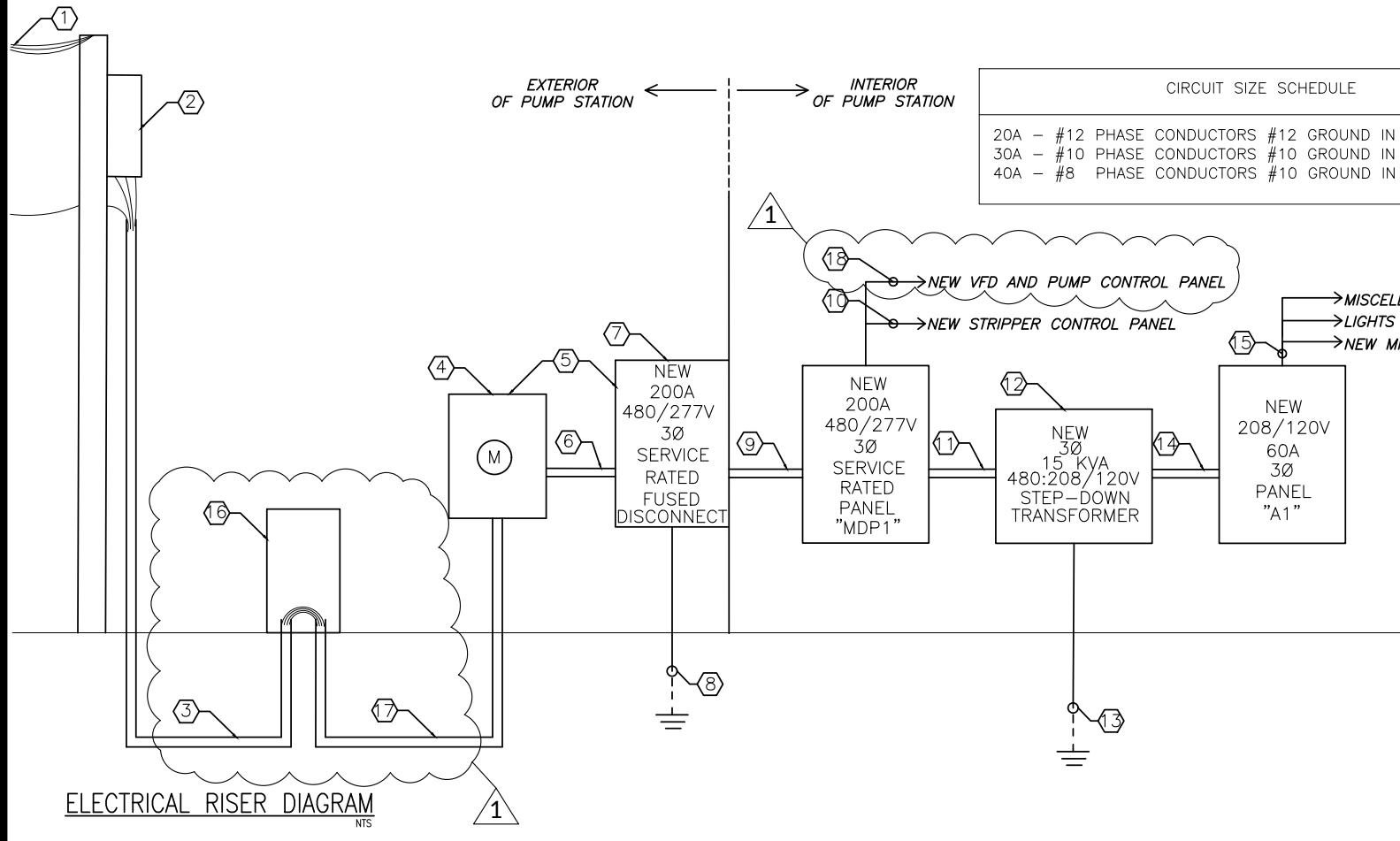
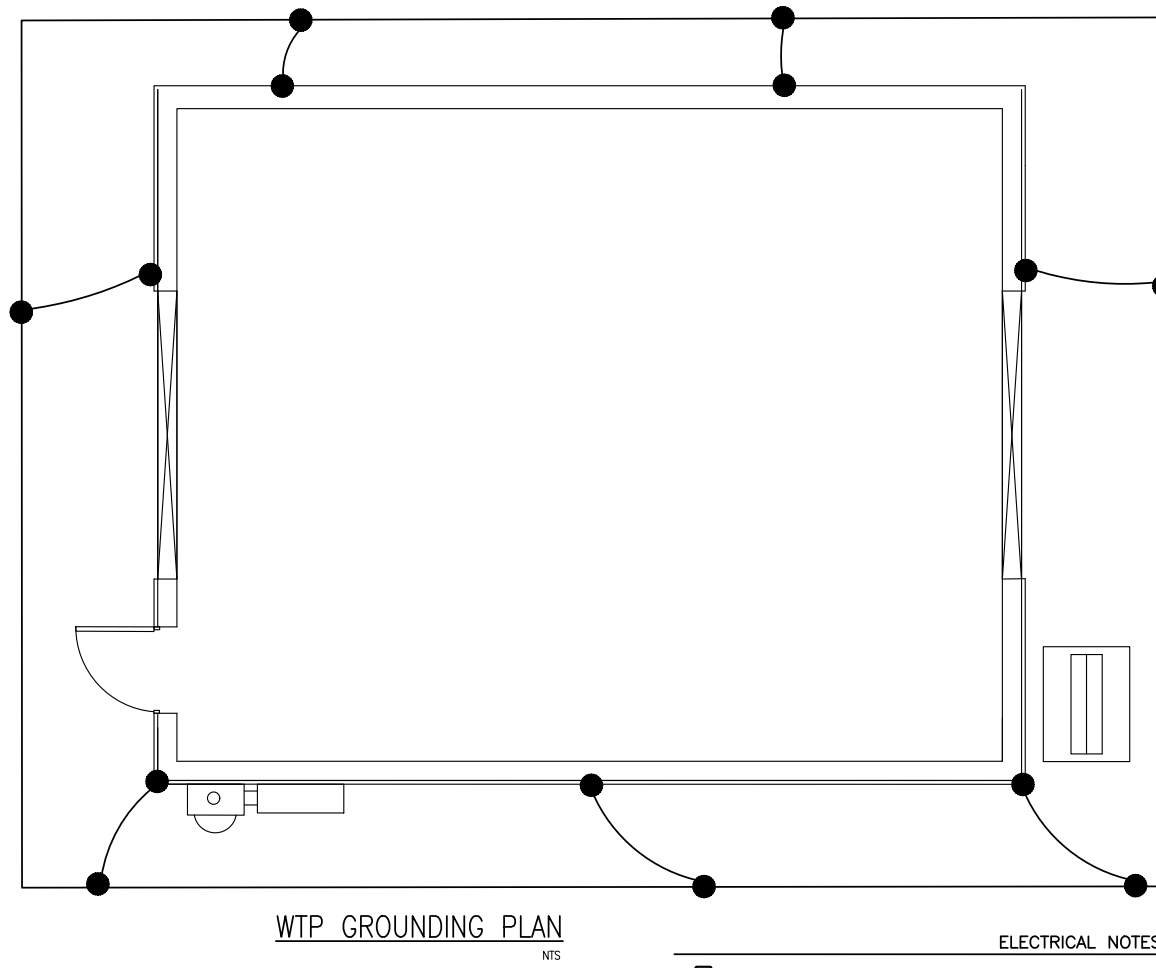
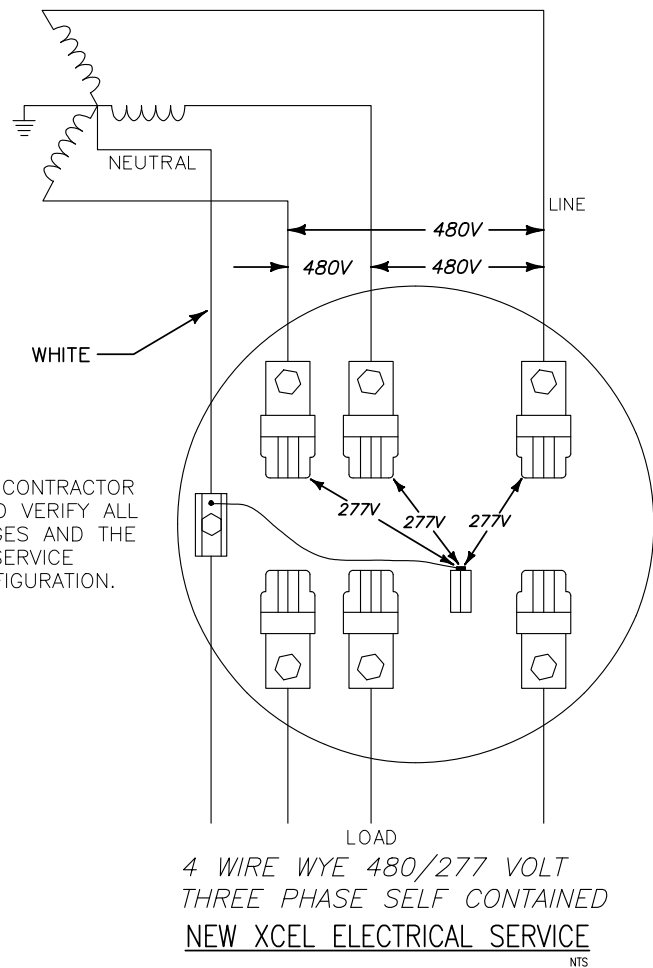
WATER TREATMENT IMPROVEMENTS

WTP ELECTRICAL FLOOR PLAN

NO.	REVISION	DATE
1	ADDENDUM 1	04/26/2024
41		
49		

PROJECT # 21132
 SHEET E-6
 SCALE 1/4"=1'-0"
 BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING.
 CHECK SCALE AND ADJUST ACCORDINGLY.

Save Time: 4/30/2024 11:27 AM
 Plotted by: cole carpenter
 Save Time: 4/30/2024 11:27 AM
 Saved By: ccarpenter
 x:\ci\idalou\21132-city of idalou 2021 water treatment improvements\Drafting\Plans\Electrical\42 WTP ELECTRICAL RISER DIAGRAM.dwg



- ELECTRICAL NOTES BY REFERENCE
- EXISTING XCEL OVERHEAD ELECTRICAL PRIMARY TO REMAIN.
 - EXISTING XCEL PRIMARY INLINE POLE WITH NEW (3) TRANSFORMER BANK FOR NEW 480/277V, 3Ø ELECTRICAL SERVICE PROVIDED AND INSTALLED BY XCEL.
 - NEW XCEL UNDERGROUND 480/277V, 3Ø ELECTRICAL SECONDARY FROM PRIMARY INLINE POLE TO PEDESTAL PROVIDED AND INSTALLED BY XCEL.
 - NEW XCEL BUILDING MOUNTED ELECTRICAL METER. CONTRACTOR TO PROVIDE AND INSTALL METER CAN PER XCEL'S REQUIREMENTS. XCEL TO PROVIDE AND INSTALL ELECTRICAL METER.
 - UCS ELECTRICAL METER AND FUSED DISCONNECT ARE BOTH BUILDING MOUNTED. REFERENCE ELECTRICAL FLOOR PLAN SHEET E-6 FOR ACCURATE EQUIPMENT LAYOUT.
 - (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM METER TO FUSED DISCONNECT.
 - BOND NEUTRAL TO GROUND IN THIS PANEL. DISCONNECT TO HAVE AIC RATING >21 KA.
 - (1) - #4 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD.
 - (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR, (1) - #6 AWG GROUND IN 2" CONDUIT FROM FUSED DISCONNECT TO PANEL "MDP"
 - (3) - #1 AWG PHASE CONDUCTORS, (1) - #1 AWG NEUTRAL CONDUCTOR, (1) - #8 AWG GROUND IN 1-1/4" CONDUIT. CONTRACTOR TO VERIFY CONTROL PANEL SIZE WITH MANUFACTURER AND ADJUST BREAKER SIZE, WIRING, AND CONDUIT AS REQUIRED PER NEC CODE.
 - (3) - #10 AWG PHASE CONDUCTORS, (1) - #10 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 3/4" CONDUIT FROM PANEL "MDP" TO STEP-DOWN TRANSFORMER.
 - BOND NEUTRAL TO GROUND IN THIS PANEL.
 - (1) - #8 AWG GROUND IN 1/2" PVC CONDUIT. CADWELD TO 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD.
 - (3) - #4 AWG PHASE CONDUCTORS, (1) - #4 AWG NEUTRAL CONDUCTOR, (1) - #10 AWG GROUND IN 1-1/4" CONDUIT FROM STEP-DOWN TRANSFORMER TO PANEL "A".
 - REFERENCE CIRCUIT SIZING SCHEDULE FOR WIRE AND CONDUIT SIZES FOR THESE LOADS.
 - NEW XCEL SECONDARY PEDESTAL PROVIDED AND INSTALLED BY XCEL.
CONTRACTOR IS TO PROVIDE AND INSTALL (3) - 3/0 PHASE CONDUCTORS, (1) - 3/0 NEUTRAL CONDUCTOR IN 2" CONDUIT FROM THE PEDESTAL TO THE BUILDING MOUNTED METER PER XCEL'S REQUIREMENTS. CONDUIT IS TO BE PVC SCHEDULE 40 WITH LONG SWEEPING ELBOWS AND HAVE 36" OF COVER PER XCEL'S REQUIREMENTS. CONTRACTOR IS TO PROVIDE AND INSTALL A 10" RED DYE CONCRETE CAP ABOVE THE CONDUIT PER XCEL'S REQUIREMENTS.
 - (3) - #12 AWG PHASE CONDUCTORS, (1) - #12 AWG NEUTRAL CONDUCTOR, (1) - #12 AWG GROUND IN 3/4" CONDUIT TO VFD AND MDP TO CONTRACTOR SUPPLIED 5 HP BOOSTER/FEED PUMP. CONTRACTOR TO VERIFY VFD AND CONTROL PANEL SIZE WITH MANUFACTURER AND ADJUST BREAKER SIZE, WIRING, AND CONDUIT AS REQUIRED PER NEC CODE.

ISSUED FOR BID

JACOB MARTIN
TBAE FIRM # BR-2261
TBE FIRM # 2448

idalou, TEXAS

WATER TREATMENT IMPROVEMENTS

WTP ELECTRICAL RISER DIAGRAM

DATE	04/26/2024
NO. / REVISION	ADDENDUM 1
PROJECT #	SCALE
SEQ.	SHEET
42	49

E-7

x:\city_of_idalou\21132-city_of_idalou_2021_water_treatment_improvements\Drafting\Plans\Electrical\43_WTP_ELECTRICAL_PANEL_SCHEDULES.dwg
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 Save Time: 5/1/2024 5:05 PM
 Plotted by: cole carpenter
 Plot Date: 5/1/2024 5:07 PM

**City of Idalou WTP
Panel "MDP1" Schedule**

Main Breaker Rating: 200 AMPS
 M.L.O. Bus Rating: 200 AMPS
 Sym. Inter. Cap.: > 21k AMPS

 Surface Mount.: X
 Flush Mount.:

3 Phase 4 Wire
 480/277 VAC

 NEMA 1: X
 NEMA 3R:

Conductor Color Code

Phase 1 ----- YELLOW
 Phase 2 ----- BROWN
 Phase 3 ----- ORANGE
 Neutral ----- WHITE or GRAY
 Ground ----- GREEN

Phase 1 Load: 71
 Phase 2 Load: 71
 Phase 3 Load: 71

Note: Contractor to supply SPD (Surge Protective Device) with this panel.

POLE	SERVICE	W	LOAD PHASE			BREAKER POLES	POLE	1	2	3	POLE	SERVICE	W	LOAD PHASE			BREAKER POLES	POLE
			1	2	3									1	2	3		
1	New Stripper Control Panel	37,368	45			100 / 3	1	X			2	480:208/120V, 3Ø, 15 KVA Stepdown transformer feeding panel "A"	15000	18			25 / 3	2
3	((1) - 7.5 HP Booster Pump, 25 HP Blower)			45			3		X		4			18				4
5	(Note 1)				45		5			X	6	"				18		6
7	New VFD and Pump Control Panel	6311	8			20 / 3	7	X			8							8
9	for 5 HP Feed/Booster Pump (Note 1)			8			9		X		10							10
11	"				8		11			X	12							12
13							13	X			14							14
15							15		X		16							16
17							17			X	18							18
19							19	X			20	SPD						20
21							21		X		22	SPD						22
23							23			X	24	SPD						24

Notes:
1. Contractor is to verify breaker size with manufacturer and adjust wiring, breaker, and conduit as needed per NEC code.

**City of Idalou WTP
Panel "A1" Schedule**

Main Breaker Rating: 60 AMPS
 M.L.O. Bus Rating: 200 AMPS
 Sym. Inter. Cap.: AMPS

 Surface Mount.: X
 Flush Mount.:

3 Phase 4 Wire
 208/120 VAC

 NEMA 1: X
 NEMA 3R:

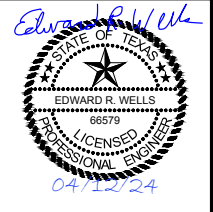
Conductor Color Code

Phase 1 ----- BLACK
 Phase 2 ----- RED
 Phase 3 ----- BLUE
 Neutral ----- WHITE or GRAY
 Ground ----- GREEN

Phase 1 Load: 20
 Phase 2 Load: 16
 Phase 3 Load: 16

POLE	SERVICE	W	LOAD PHASE			BREAKER POLES	POLE	1	2	3	POLE	SERVICE	W	LOAD PHASE			BREAKER POLES	POLE
			1	2	3									1	2	3		
1							1	X			2	New 12,000 BTU Mini-Split	1620	14			25 / 1	2
3	Convenience Receptacles	720		6		20 / 1	3		X		4	Convenience Receptacle for Mini-Split	180		2		20 / 1	4
5	Convenience Receptacles	540			5	20 / 1	5			X	6	Lighting	540			5	20 / 1	6
7	Heat Tape (Note 1)	360	3			20 / 1	7	X			8	Heat Tape (Note 1)	360	3			20 / 1	8
9	Heat Tape (Note 1)	360		3		20 / 1	9		X		10	Future Hi Tide Module (Note 1)	600		5		20 / 1	10
11	Heat Tape (Note 1)	360			3	20 / 1	11			X	12	Heat Tape (Note 1)	360			3	20 / 1	12
13							13	X			14							14
15							15		X		16							16
17							17			X	18							18
19							19	X			20							20
21							21		X		22							22
23							23			X	24							24
25							25	X			26							26
27							27		X		28							28
29							29			X	30							30
31							31	X			32							32
33							33		X		34							34
35							35			X	36							36

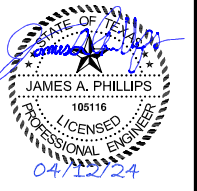
Notes:
1. Contractor to provide and install breaker only for these loads. No wiring or conduit is required for these loads.



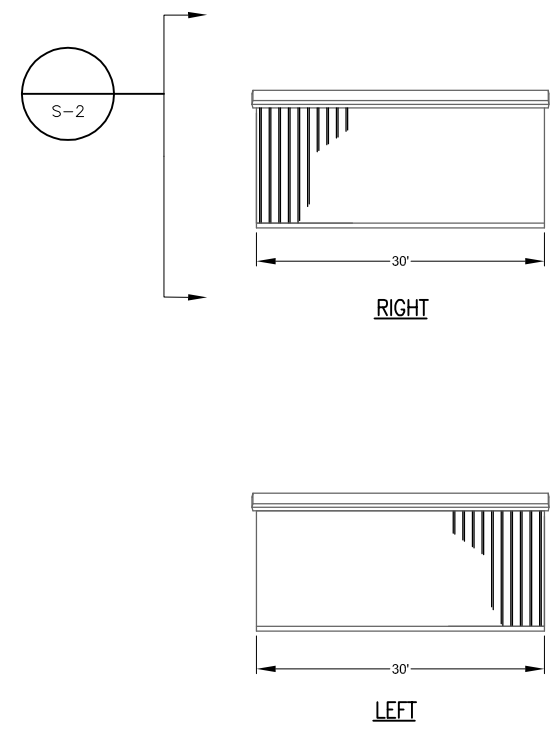
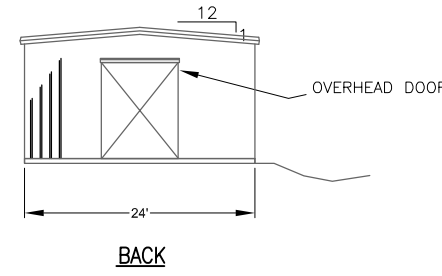
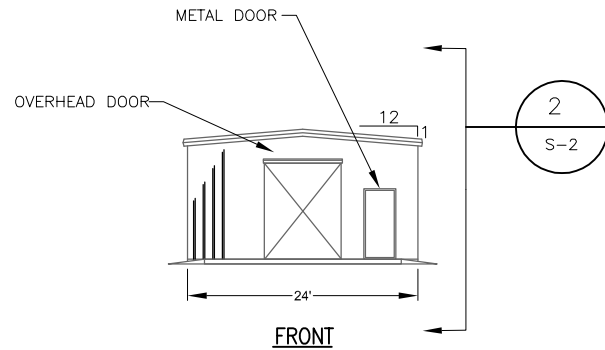
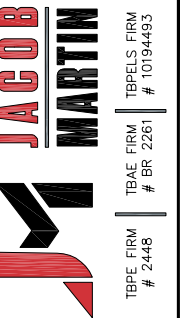
IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS
WTP ELECTRICAL PANEL SCHEDULES

NO. REVISION	DATE	SCALE	PROJECT #
ADDENDUM 1	04/26/2024	NTS	21132
43	49	E-8	

1



ISSUED FOR BID



* INTERIOR CURBS & FLOOR OF THE CHEMICAL CONTAINMENT AREAS ARE TO RECEIVE COATING IN CONTAINMENT AREAS WALLS AND FLOOR TO BE SHERWIN WILLIAMS ARMORSEAL 1000 HS. COLOR CLOSE TO CONCRETE GREY. APPLY PER MANUFACTURER'S DIRECTIONS.

** STEEL COLUMNS, BEAMS, WALL PURLINS AND ROOF PURLINS RECEIVE PAINT SYSTEM AS SHOWN FOR DOORS BELOW.

DOOR SCHEDULE							
DOOR NO.	WIDTH	HEIGHT	FIRE	DOOR TYPE	FRAME TYPE	DOOR GAGE	FRAME GAGE
1	3'-0"	7'-0"	--	A	WELDED	16	16
OVERHEAD GARAGE DOOR SCHEDULE-MAUNFACTURER "OVERHEAD DOOR"							
2	10'X10'	--	B	--	--	24	--
3	10'X10'	--	B	--	--	24	--

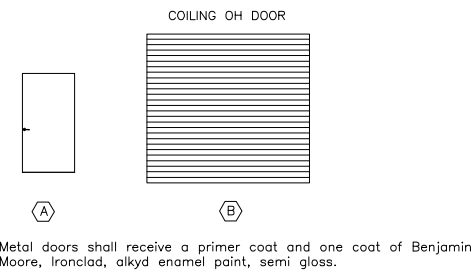
NOTE 1. OVERHEAD COILING GARAGE DOORS TO BE GALVANIZED, AND RECEIVE A RUST-INHIBITORE ROLL-COATING WITH A BAKED ON PRIME PAINT AND POLYESTER TOP COAT IN GRAY. PROVIDE DOOR COMPLETE WITH CRANK MOTOR, CYLINDER LOCK AND WEATHER SEALS.

NOTE 2. ALL EXTERIOR DOORS AND FRAMES TO BE GALVANIZED

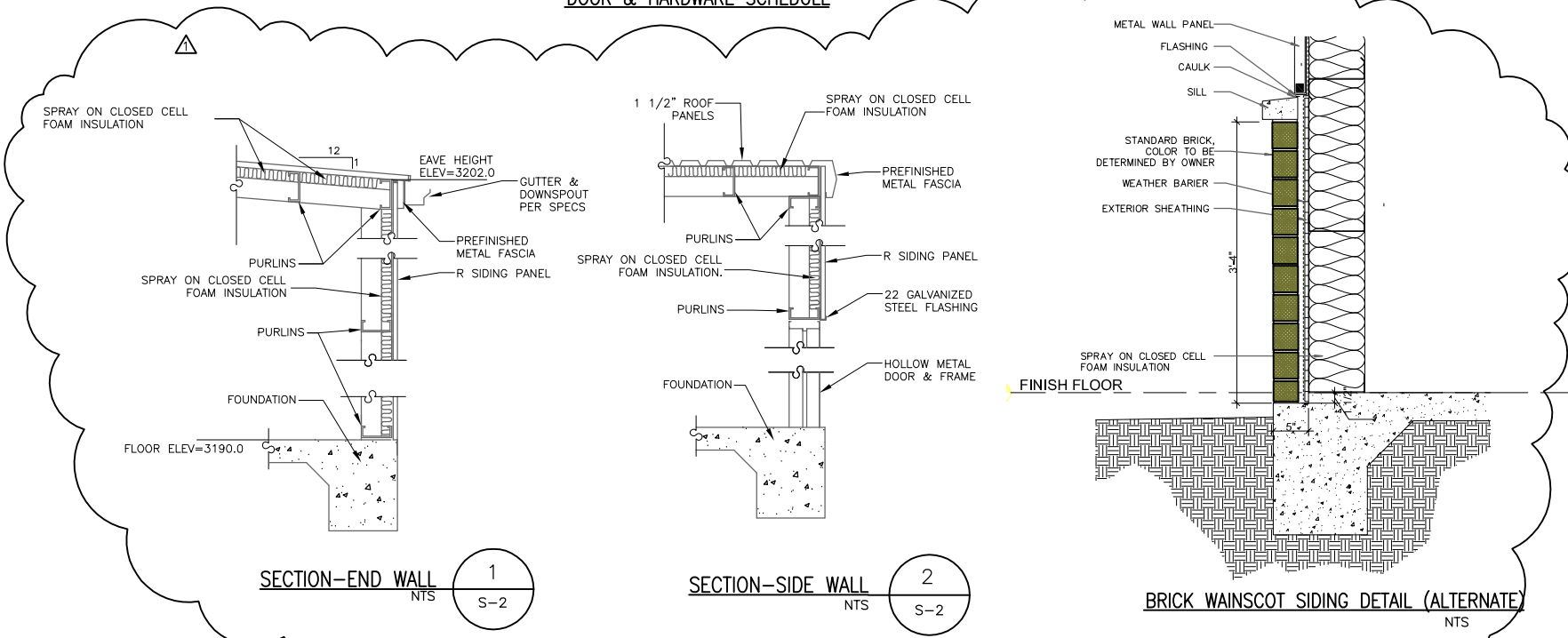
NOTE 3. ALL DOORS TO BE 1 3/4" STANDARD DUTY FULL FLUSH

DOOR #1		
EXTERIOR ENTRY DOOR		
1 1/2 pr. BUTTS	BB1168-32D-NRP	HAGER
1 ea. LOCKSET	CL3251-630 FINISH	CORBIN/RUSSWIN
1 CLOSER	LCN 4010 SERIES	LCN
1 ea. THRESHOLD	171 A-36"	PEMKO OR EQUAL
1 ea. DOOR BOTTOM	18062CP-36"	PEMKO OR EQUAL
1 ea. WEATHERSTRIP	S88D-34"	PEMKO OR EQUAL

INSTALL ALL HARDWARE PER MANUFACTURER'S SPECIFICATIONS. SHOP DRAWINGS REQUIRED FOR ENGINEER'S APPROVAL.



DOOR & HARDWARE SCHEDULE

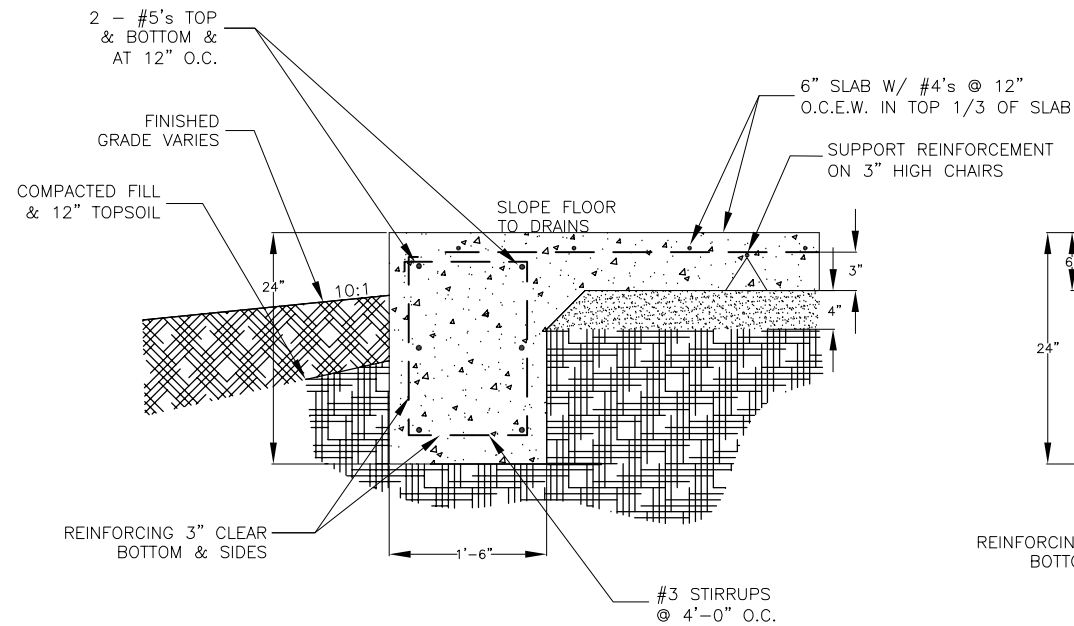


IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS

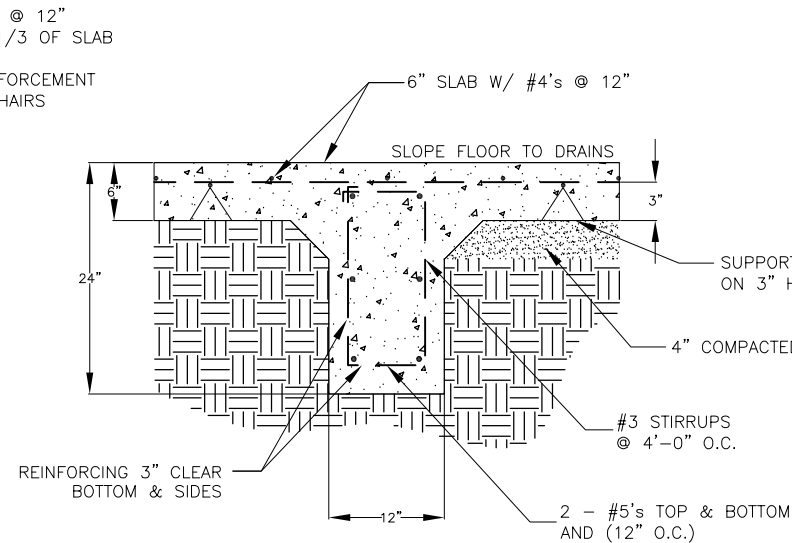
WTP BUILDING

NO.	REVISION	DATE
1	ADDENDUM #1	04/26/2024
PROJECT #	SCALE	DATE
21132	NTS	04/26/2024
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING		
CHECK SCALE AND ADJUST ACCORDINGLY.		
SEQ.	SHEET	
33	47	S-2

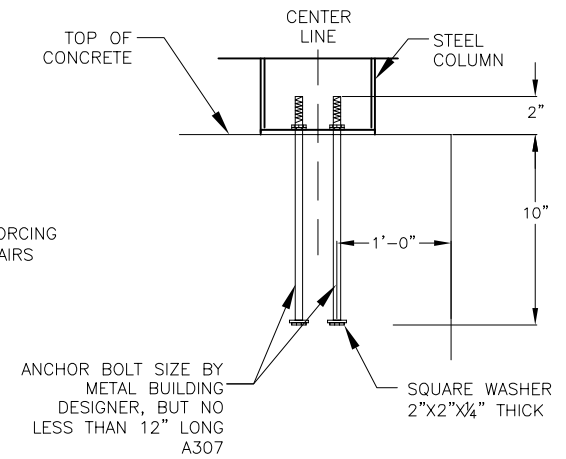
X:\C:\Idalou\21132-City of Idalou 2021 Water Treatment Improvements\Drafting\Plans\Structural\3 MISC STRUCTURAL DETAILS.dwg
 Saved By: j baker
 Save Time: 5/1/2024 1:41 PM
 Plotted by: joshua baker
 Plot Date: 5/1/2024 1:41 PM



TYPICAL EXTERIOR GRADE BEAM

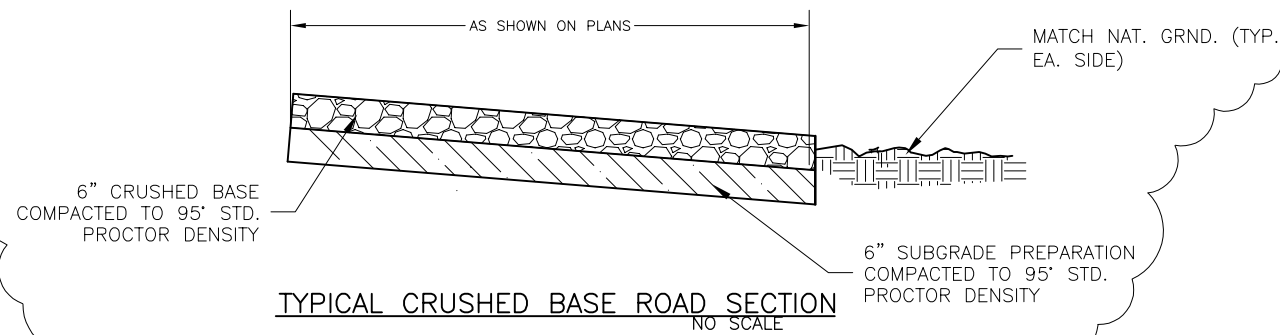


TYPICAL INTERIOR GRADE BEAM

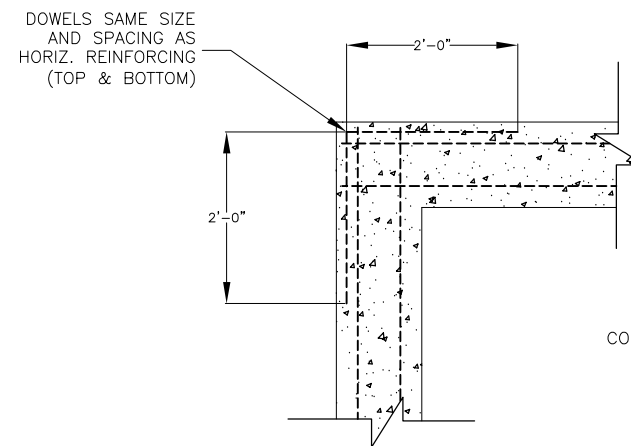


ANCHOR BOLT DETAIL
SCALE: N.T.S.

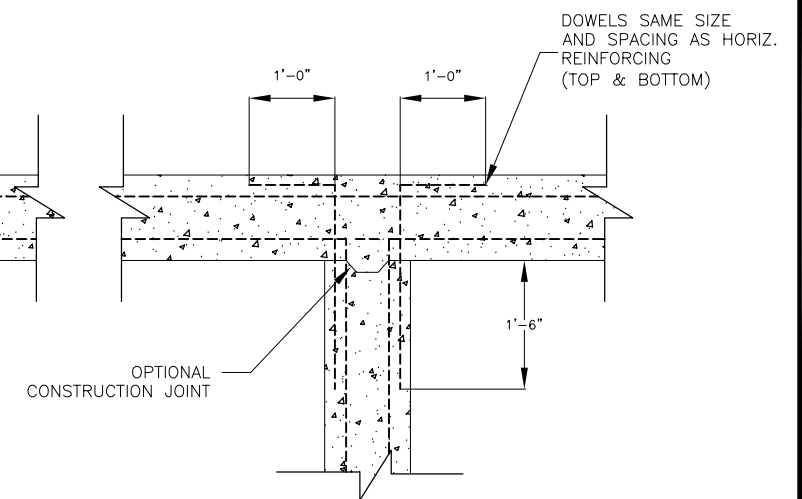
NOTE:
CONTRACTOR TO MAINTAIN POSITIVE
DRAINAGE THROUGHOUT PROJECT SITE



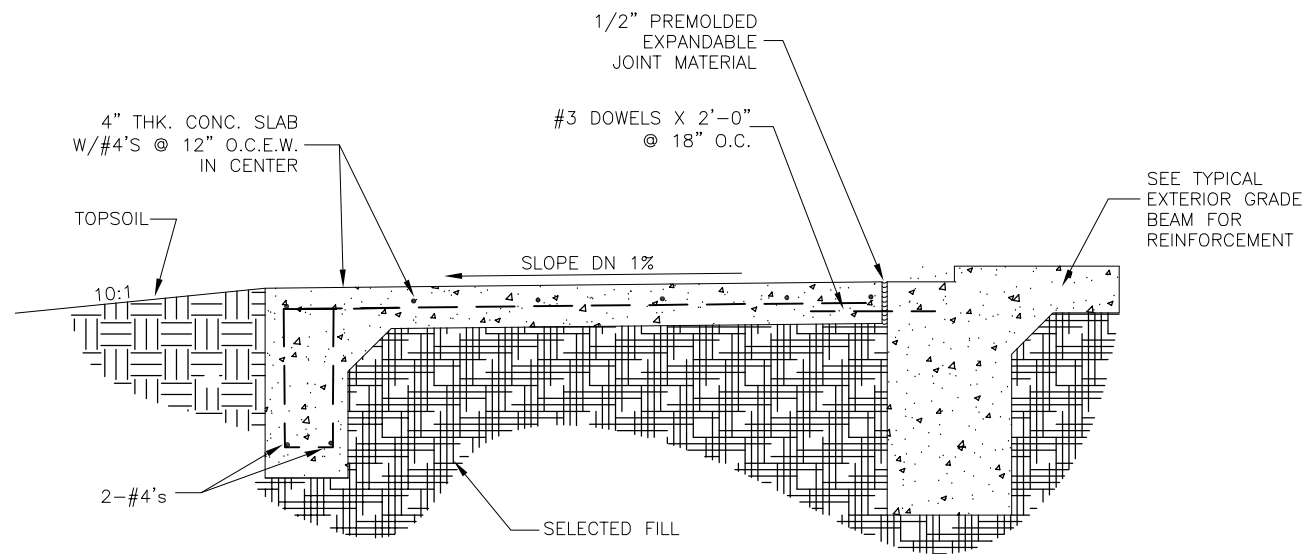
TYPICAL CRUSHED BASE ROAD SECTION
NO SCALE



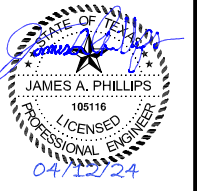
CORNER
(PLAN VIEW)



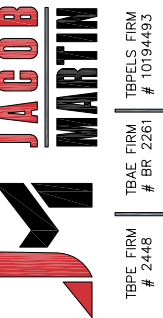
INTERSECTION
(PLAN VIEW)



SECTION @ TANK PADS
NTS



ISSUED FOR BID



IDALOU, TEXAS
WATER TREATMENT IMPROVEMENTS
 MISCELLANEOUS STRUCTURAL DETAILS

NO. REVISION	DATE	PROJECT #	SCALE	NTS
ADDENDUM #1	04/26/2024	21132	NTS	NTS
SEQ.	SHEET	BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING CHECK SCALE AND ADJUST ACCORDINGLY.		
34	47	S-3		