#### **BND SHOP VEHICLE WASH BAYS**

August 30, 2021

#### 1. CHANGES TO BID DRAWINGS:

- a. The **Bid Drawings** have been changed to include:
  - 1. The **Metal Structure** above the concrete, inclusive of beams and sheet metal. The contractor shall furnish and install the metallic roof structure. Such structure must meet or exceed the specified materials and dimensions shown in the revised Bid Drawings. Contractor shall submit shop drawings of the metal structure for approval by Owner prior to installation. Contractor shall secure any required permits from the Cameron County Building Permits office with an on-staff or subcontracted certified plumber as needed.
  - 2. All **Electrical Work** for the entire installation. The contractor shall furnish and install all Electrical Features and Appurtenances in conformance with applicable and current electrical codes, to provide electricity to all lights and electrical equipment in the wash bays, including the equipment in the control room. Contractor shall secure any required permits from the Cameron County Building Permits office with an on-staff or subcontracted certified electrician as needed.
  - 3. A Vacuum equal to or better than the following: **JE Adams 9225 2-Motor Commercial Vacuum**. The general specification is attached to this **Addendum #4**.
- b. The contractor shall include a price for furnishing and installing the above items, in addition to those already in the **Bid Form**. Contractor shall submit shop drawings of all these items for approval by Owner prior to installation.

### 2. CHANGES TO BID FORM:

- a. The Bid Items Tabulation in the **Bid Form** has been changed to include the above items. The revised **Bid Form** is attached to this **Addendum No. 4**.
- b. Bidders must submit the attached **Bid Form** with their bid.

### 3. CLARIFICATIONS TO BIDDERS' QUESTIONS:

BIDDERS' QUESTIONS	OWNER'S RESPONSES
Define if the electrical work will a be part of the scope of work.	Yes, the electrical work will be part of the scope. Details and specifications attached on the drawings. Please refer to Drawing Sheet 8.

	BIDDERS' QUESTIONS	OWNER'S RESPONSES		
2.	Steel used needs to be Galvanized?	Yes, all steel used for the steel structure and catwalks must to be galvanized.		
3.	Is there any contingency monies considered in this contract?	No contingency money is considered for this or any BND project.		
4.	Vacuum Specs to be sent in Addendum #2?	Please refer to Attachment A for vacuum specs and model.		
5.	Extended time to open bids and execution days?	Completion time for this project is 45 days, no additional time is added.		
6.	Provide specs on grate.	Grate and steel specifications can be found in the notes section on drawing sheet 3 for the wash bay and sheet 7 for the cat walks.		
7.	Define supports for metal structure building.	All columns for the steel structure will be embedded in the concrete.		
8.	Weld plates used for columns?	No steel plates for columns will be needed. The columns will be embedded in the concrete as mentioned on the previous number.		
9.	Can you clarify detail for the conflict at the slope drain and the "E" Beam detail found on sheet 5? I assume the beam will be under the drain slope with #5 rebar offset.	Cross Section D sheet 6 specifies the dimensions and rebar placement for the beam under the drain trench.		
10	Please provide a "Concrete Wall Detail" for the thickness and reinforcement and BND's metal building bolt location for size of anchor bolts to be installed.	Concrete wall detail is shown in sheet 6. No anchor bolts will be required, the steel column will be embedded into the concrete footing.		
11	. What is the Engineer's Estimate?	BND does not provide Engineer's Estimates for their projects.		
12	. What is the Link for Pre-Bid?	The mandatory Pre-Bid meeting was held July 20, 2021. An email to the interested bidders and Pre-Bid meeting attendees will be sent with the link to the Bid Opening.		
13	Please provide wall detail above perimeter and interior beams.	Concrete wall detail is shown in sheet 6.		

# **Bid Form**

## **BND SHOP VEHICLE WASH BAYS**

	2.12 0.13	
Bid to:	Brownsville Navigation I 1000 Foust Road Brownsville, Texas 7852	
Due Date:	Before 2:30 P.M. C.D.T.	on Tuesday, September 7, 2021.
Bid b corporation or an individ	oyorganized and existing und ual doing business as	hereinafter called BIDDER, a ler the laws of the State of, or a partnership
To:	The Brownsville Navigation	District, Texas, hereinafter called OWNER.
Gentlemen:		
WASH BAY and the site construction proposes to with the cor These price contract doo	'S" project, having examine of the proposed work, and of the proposed project, furnish all labor, materials attract documents, within the (s) are to cover all expendents, of which this bid is	ith your invitation for bids for the "BND SHOP VEHICLI and the drawings and specifications with related document and being familiar with all of the conditions surrounding the including the availability of materials and labor, hereby and supplies, and to construct the project in accordance the time set forth herein, and at the attached unit prices ses incurred in performing the work required under the ses a part. These price(s) are firm and shall not be subject to the difference of the conditions of the subject of the conditions
specified in project withi agrees to p	a written "Notice to Procee n <u>forty five (45)</u> calenda ay as liquidated damages	mence work under this contract on or before a date to be ed" to be issued by the OWNER and to fully complete the ar days, as defined in the specifications. BIDDER further, the sum of <u>five hundred (\$500.00) dollars</u> for each hereinafter provided in Article 3 of the Agreement.
	DER agrees to perform all versions shown on the plans, for the	work for which he contracts as described in the specifica e attached unit prices:
work at the	project site with his own fo	dersigned proposes that he will perform the majority of the rces and that specific portions of the work not performed and performed by the following subcontractors.
Wo	rk Subcontracted	Name of Subcontractor

## **BND SHOP VEHICLE WASH BAYS**

BIDDER Agrees to perform all the work described in the Contract Documents for the following Unit Prices (which include any and all applicable taxes and fees):  $\frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right)$ 

September 7, 2021

### **WASH BAY IMPROVEMENTS:**

#	DESCRIPTION	EST. QTY.	<b>UNIT COST</b>	AMOUNT
1	12" CONC. SLAB (W/ #5 BARS @ 12" CNTRS., EA. WAY, 2 MATS), with 12" CONC. BEAMS (W/#5 STIRRUPS @ 24" CNTRS.)	463 SY		
2	3' CMU WALL as shown on the drawings.	166 LF		
3	WALL PANELS as shown on the drawings.	1,560 SF		
4	ROOF PANELS as shown on the drawings.	2,145 SF		
5	STRUCTURAL STEEL as shown on the drawings.	1 LS		
6	10' X 10' ROLL UP DOOR as shown on the drawings.	1 EA		
7	2'-8" X 7' PERSONNEL DOOR as shown on the drawings.	1 EA		
8	DRY TYPE TRENCH with standing weirs, grating and steel plates as shown on the drawings.	2 EA		
9	PRE CAST CONCRETE PIT 3'x3'x3' as shown on the drawings.	2 EA		
10	OIL/WATER SEPARATOR INSTALLATION	1 EA		
11	SUMP PIT INSTALLATION	1 EA		
12	CAT WALKS as shown on the drawings.	4 EA		
13	4" PVC DRAIN LINE as shown on the drawings.	59 LF		
14	3" PVC RETURN LINE as shown on the drawings.	31 LF		
15	8" GUARD POST as shown on the drawings.	10 EA		
16	ELECTRIC INSTALLATION, lights, equipment control panel, outlets and switches as shown in drawings.	1 LS		

TOTAL BASE BID FOR ALL WORK UNDER THIS CONTRACT:

## NOTES:

All wall panels, roof structure and appurtenances shall be installed as shown in the drawings. Contractor shall furnish and install any items not shown or specified but necessary for the proper installation and functioning of the bid items. Contractor shall submit shop drawings as required in Addendum #4.

BND will be responsible for all utility connections (e.g. water, sewer, electricity). Gas connection will be arranged for by BND.

The Brownsville Navigation District is exempt from sales taxes.

# Attachment A

# JE Adams 9225 2-Motor Commercial Vacuum

- Stainless Steel Dome
- 2 Motor System
- Includes 15-foot Hose

## **Specs**

• Model No. 9225

Vacuum Yes

Motors 2

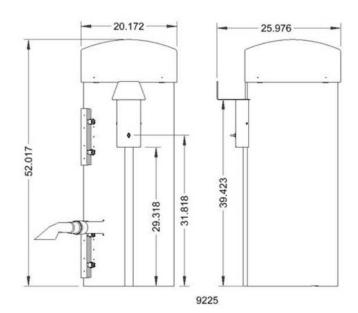
Dome Stainless Steel

**ETL Approved** Yes

Weight 128 lbs

Amps Required 20

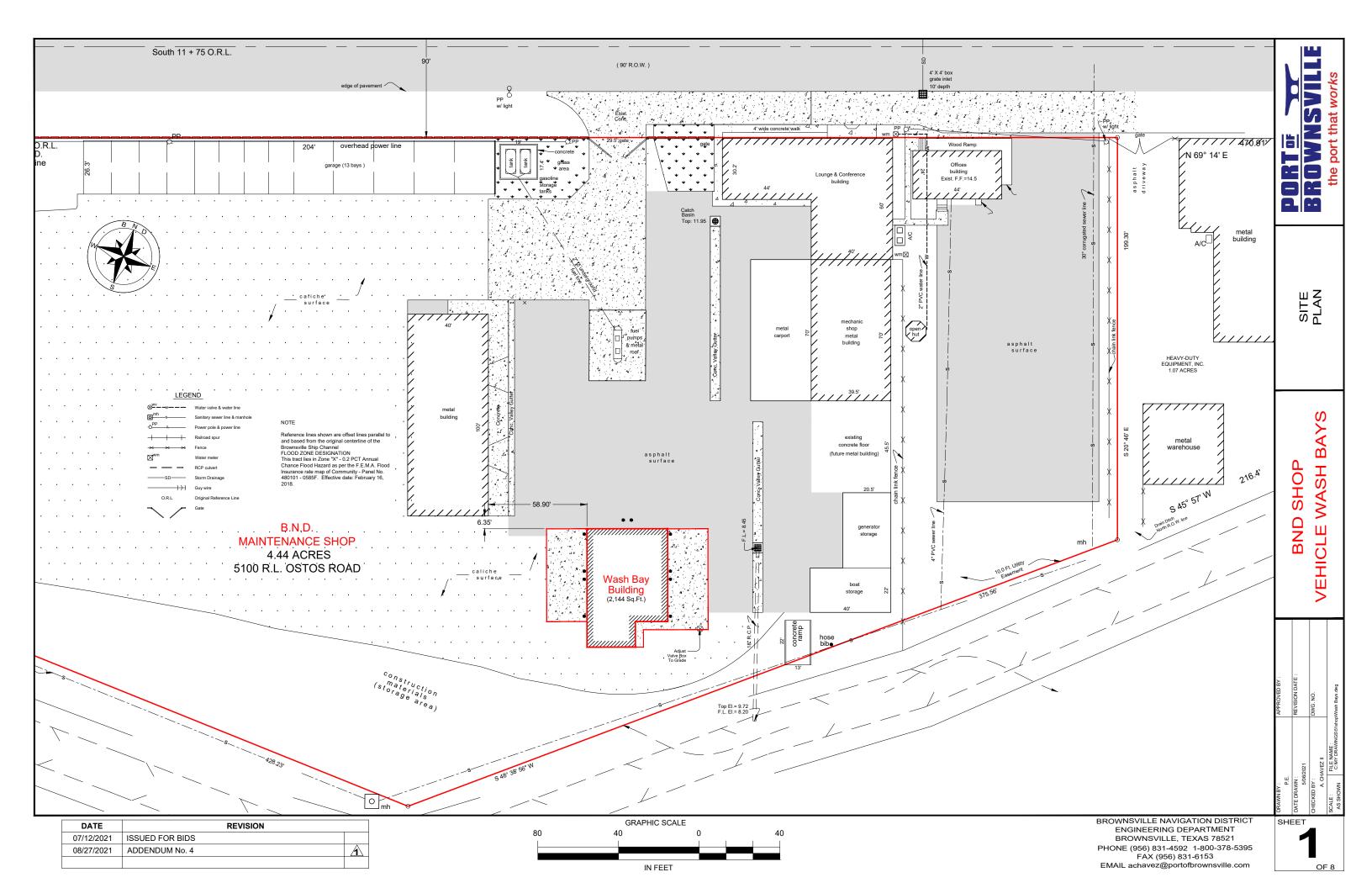
Voltage 120



## **Features**

This unit comes standard with the following features (unless noted) and identifies replacement products:

- (2) 1.6 HP, 120 volt motors (Replacement Item #8055EM)
  - o Requires 20 AMP service
- 2 Motors with 2" hose = 163.5 CFM / 193.4 Air Watts
- 2 Motors with 1 1/2" hose = 140.8 CFM / 402.4 Air Watts
- On/Off toggle switch
- Double service doors offer easy access to clean-out area and 4 filter bag system (Replacement Item #8076)
- Hose: Black, 2" x 15', swivel cuff and nozzle included (25' and 50' also available in 1 1/2" or 2" for additional charge).
- Hose available in red, blue, yellow, green, and beige at no additional charge.
- Internal vacuum hose threading system
- Optional accessories available at an additional charge: Push button start with timer (Item #9225PBK), Service Door Security Cover (Item #9427K), Cycle Counters, Vinyl Cleanout Bag (Item #8599), and Rubber Clean-out Container (Item #8080)



## NOTES:

Building shall include all primary and secondary structural framing members, connection bolts, covering, doors, windows, skylights, flashing, fasteners, closures, sealant tape, caulking, insulation, and other miscellaneous items as shown or called for in the drawings or specifications, unless specifically excluded in contract.

All structural steel sections and welded plate members shall be designed in accordance with the AISC Specification for Structural Steel Buildings-Allowable Stress Design. and Plastic Design. All light gauge cold-formed structural members and exterior covering shall be designed in accordance with the AISI Specification for the Design of Cold-Formed Steel Structural Members.

All buildings will be designed to meet building design requirements as set forth by the International

Building Code, 2018, unless otherwise requested by the customer. Roof live load, collateral load, and wind load, will be based on local zip code.

All framing members shall be shop fabricated for field bolted assembly. Primary Framing members can be finished with Hot-Dipped Galvanized coating. Secondary Framing members can be Pre-Galvanized finish. **NO RED OXIDE PRIMER.** Field cutting or drilling, when required, shall be clearly noted on the drawings.

Roof covering shall be of 26 Gauge, Acrylic Galvalume Coated Steel Panels, unless otherwise noted. Wall covering shall be of 26 Gauge, Painted Galvalume Coated Steel Panels, unless otherwise noted.

All fasteners for roof covering will have a zinc coated aluminum cast head (ZAC) with a neoprene, sealing

washer for weather-tightness. Wall covering fasteners shall have a long life coating along with a neoprene, sealing washer for weather-tightness.

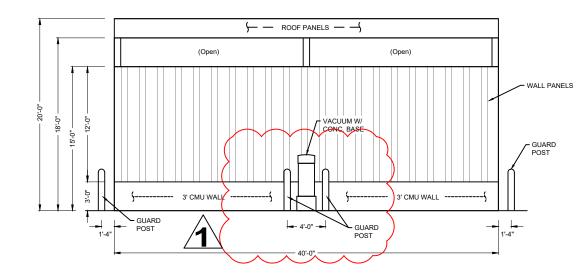
Sealant tape for all roof panel laps shall be 3/8" in width.

Flashing and trim shall be furnished at the rake, comers, eaves, framed openings, and wherever necessary to provide weather tightness and a finished appearance. Eave gutters shall be provided, unless otherwise noted.

Closure strip shall be provided for eave and rake condition.

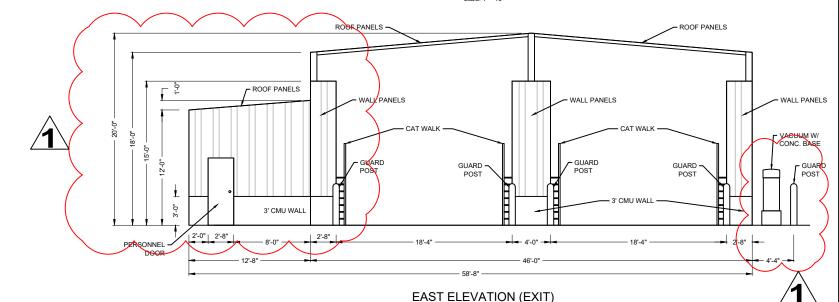
Tube sealant shall be provided for eave gutter.

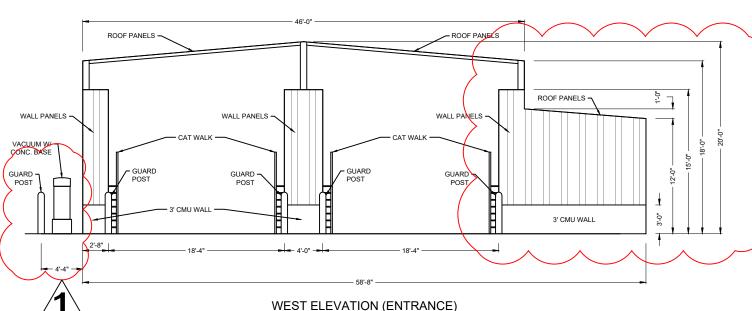
The building manufacturer's standards will be followed, unless otherwise noted.

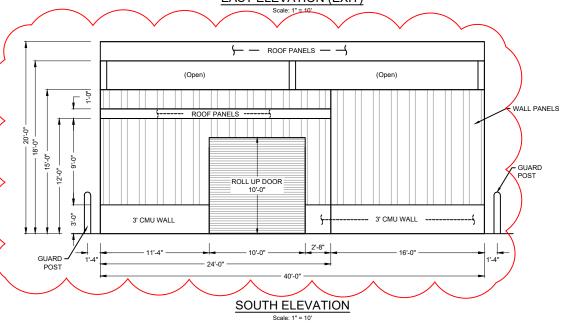


## NORTH ELEVATION

Scale: 1" = 10'







DATE	REVISION	
07/12/2021	ISSUED FOR BIDS	
08/27/2021	ADDENDUM No. 4	$\Lambda$

BROWNSVILLE NAVIGATION DISTRICT ENGINEERING DEPARTMENT BROWNSVILLE, TEXAS 78521 PHONE (956) 831-4592 1-800-378-5395 FAX (956) 831-6153 EMAIL achavez@portofbrownsville.com SHEET OF 8

BROWNSVIL BROWNSVIL

> BUILDING ELEVATIONS

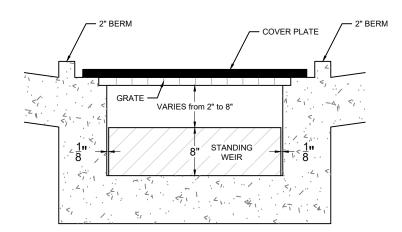
BND SHOP EHICLE WASH BAY



FLOOR PLAN AND TRENCH DETAILS







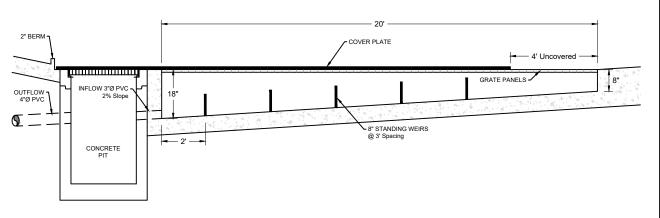
## TRENCH DRAIN

Cross Section View (N.T.S.)

## NOTES:

- Solids should be routinely removed. (E.g. at least every 2 4 weeks)
- No standing water should be allowed to accumulate in the trench.
- Standing weirs shall be 1/4" shorter than the width of the trench in order to retain solids and allow water to flow.
- Water should only enter from the shallow end of the trench.
- Rectangular bar grating shall be 18" wide by 1" thickness galvanized steel, smooth surface.
- Use a 1/4" galvanized steel cover plate above the concrete pit and trench drain as specified.
- For Equipment Installation Details, refer to the System's Operator's Manual. If further questions arise, please contact vendor. Victor de los Santos (956-739-1125)





# DRY TYPE TRENCH DRAIN

Section View (N.T.S.)

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SUMF

COVERED CONCRETE

DRAIN LINE

2% SLOPE

3'x3'x3'

2% SLOPE

2% SLOPE

COVERED GRATE -

(48"x18"x1" Panels)

- COVERED

3'x3'x3'

CONCRETE

COVERED GRATE -

(48"x18"x1" Panels)

CAT WALK

CAT WALK

CAT WALK

2% SLOPE

CAT WALK

WATER

FLOOR PLAN

Scale: 1 ½ " = 1'

DRAIN

- 2" RAISED BERM

- STANDING WEIRS

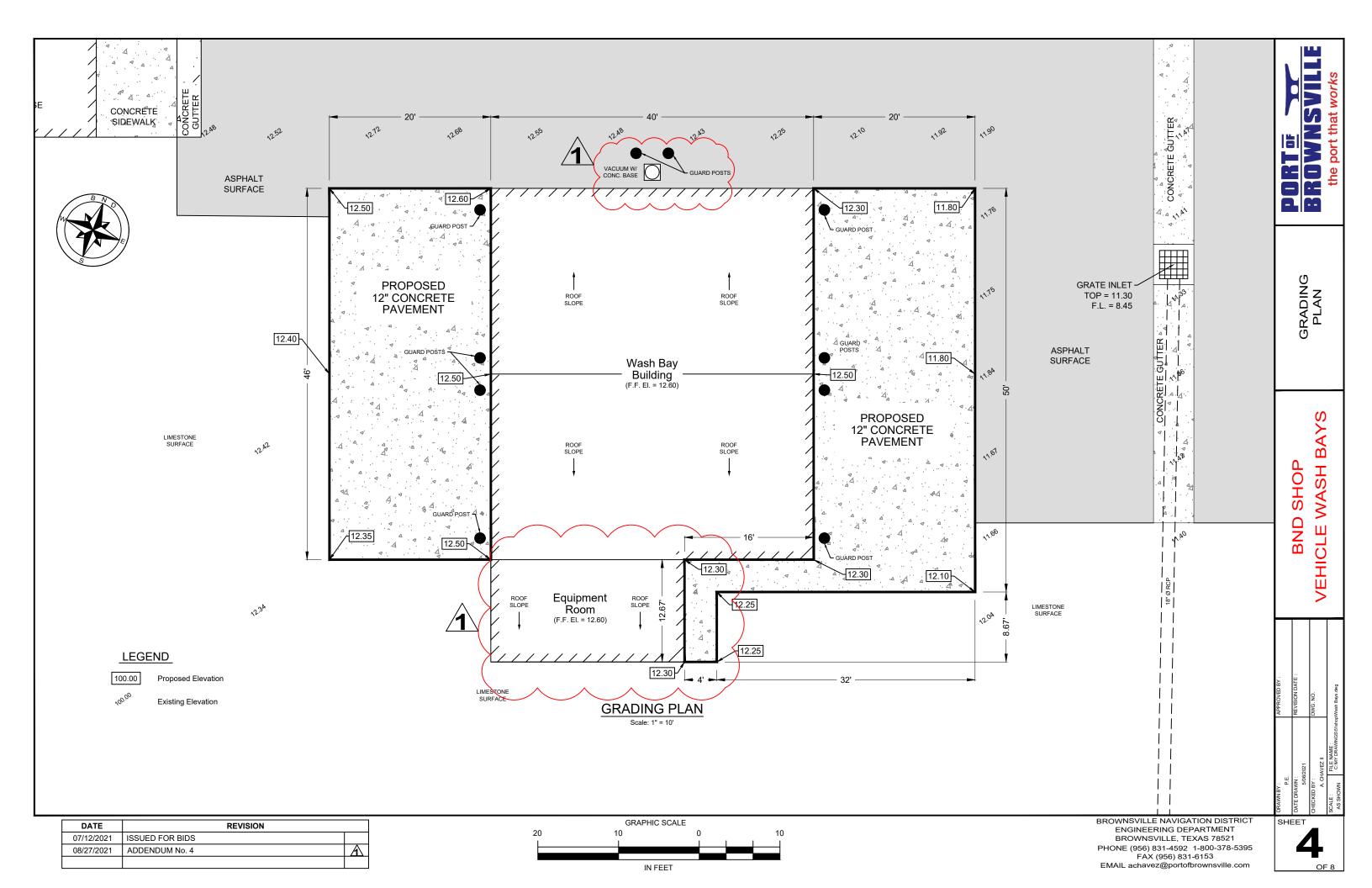
2" RAISED BERM

**-** 3" PVC RETURN LINE

STANDING WEIRS

2% SLOPE

2% SLOPE





FOUNDATION PLAN

BND SHOP VEHICLE WASH BAYS

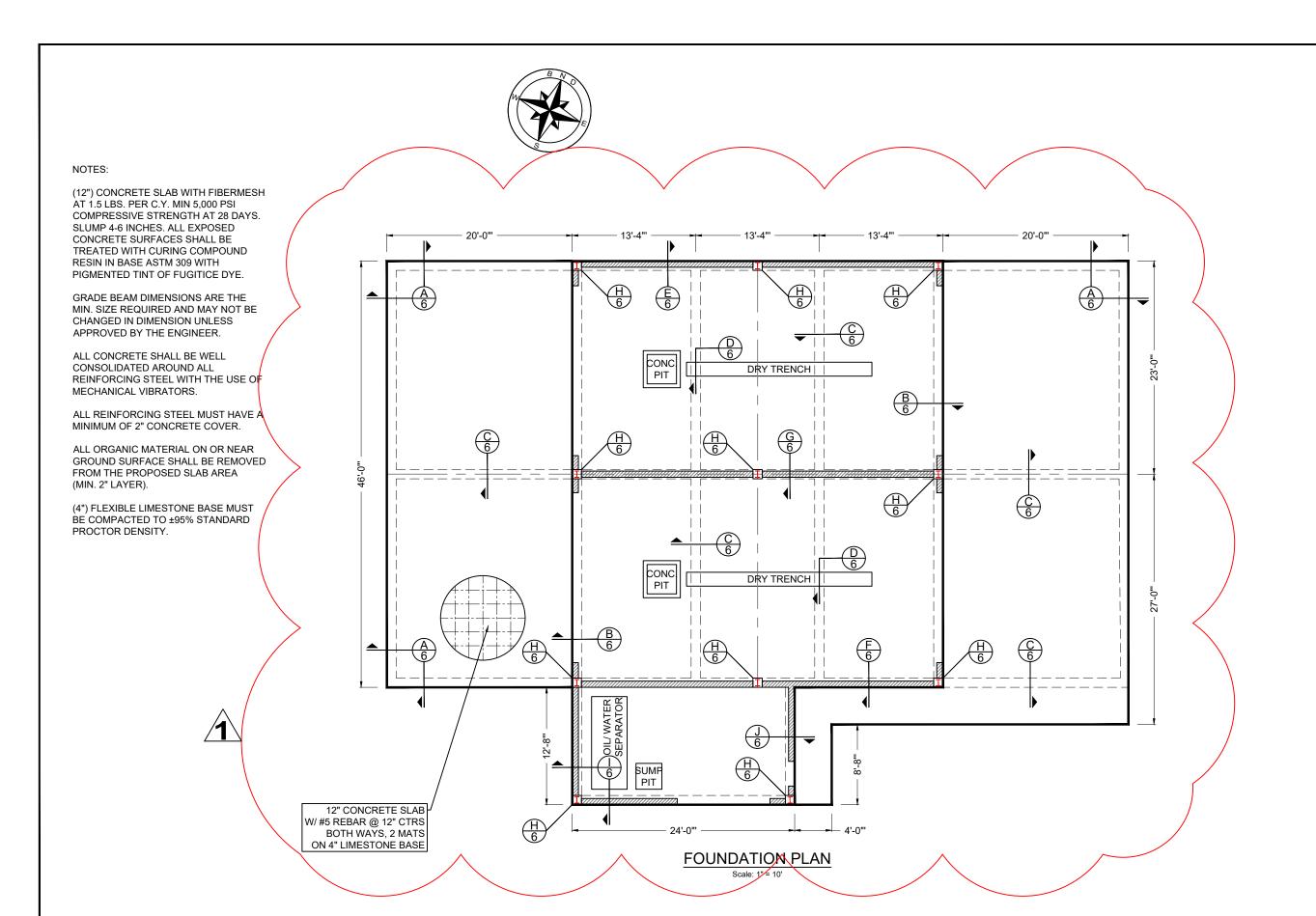
A CHAVEZ II

F.E. DWG.NO.

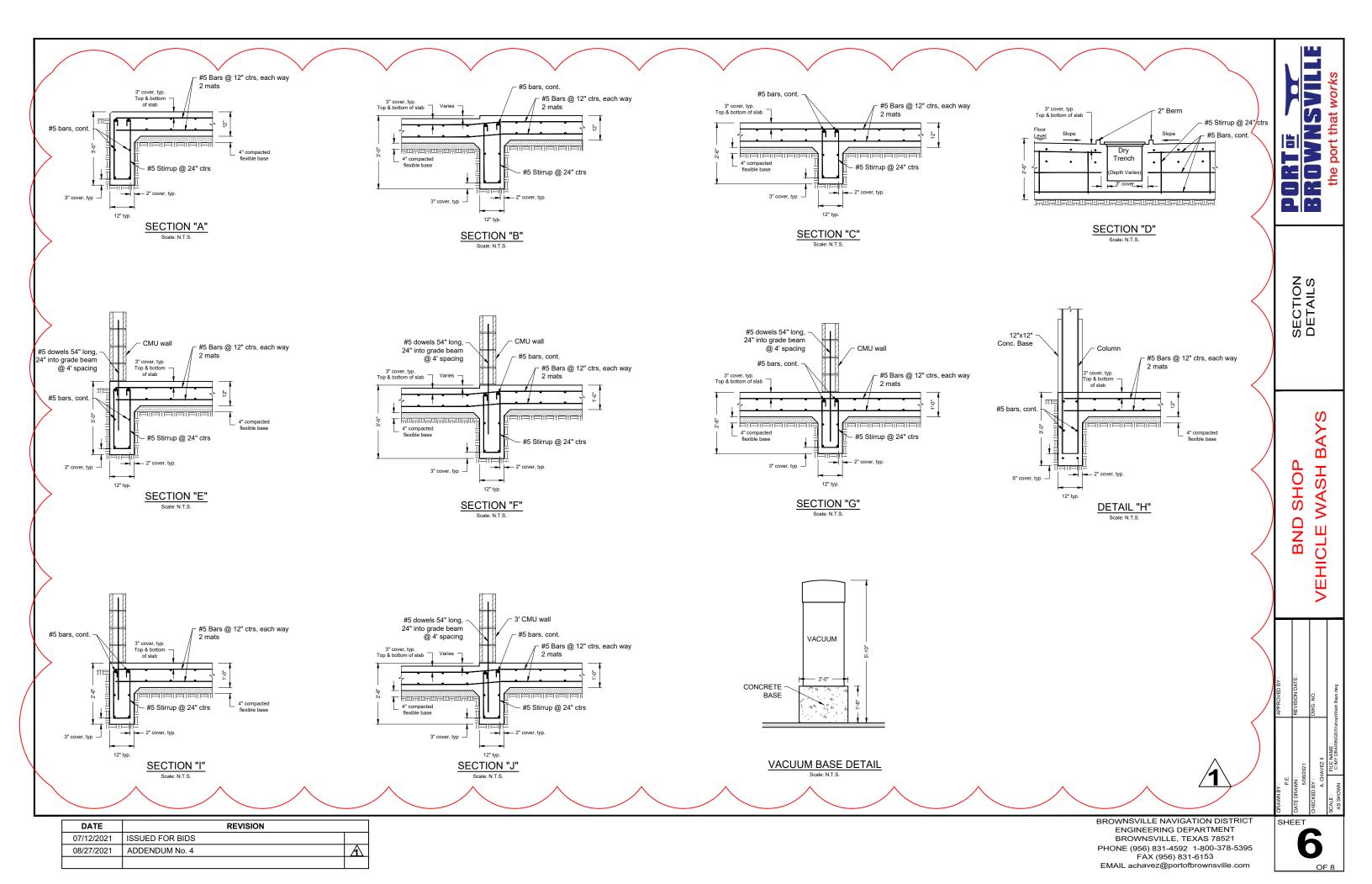
A CHAVEZ II

C.MY DRAMINGSIGNOPWAN

PATEL DATE OF THE OFFICE OFFIC



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SIDE VIEWS

NOTES:

C 8"x6.75' Stringer

1 ½" Grating

2"x2"x<sup>1</sup>/<sub>4</sub>" HSS

Hand Rail

ALL STEEL SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.

ALL FIELD WELDS ON GALVANIZED PRODUCTS SHALL BE COLD GALVANIZED AFTER COMPLETION.

RECTANGULAR BAR GRATING SHALL BE 36" WIDE BY 1  $\frac{1}{4}$  THICKNESS, SERRATED SURFACE.

STAIR THREADS SHALL BE SERRATED SURFACE WITH CHECKERED PLATE  $90^{\circ}$  ANGLE NOSING.

**→** 3'-0" **→** 

8'-6"

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THE ELECTRICAL WORK INCLUDES PROVIDING NEW MATERIALS, FIXTURES, DEVICES AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING ELECTRICAL SYSTEM.

ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES OR ORDINANCES AND SUBJECT TO INSPECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMATIC, SHOWING THE LOCATION, TYPE DEVICES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED MEASUREMENTS

PROVIDE ALL FIXTURES, LAMPS, DEVICES, ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND

COORDINATE WITH THE WORK OF OTHER SECTIONS. MAKE ALL CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. COMPLY WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

ALL WORK SHALL COMPLY WITH LOCAL LAWS GOVERNING ELECTRICAL INSTALLATIONS, AND THE MOST RECENT EDITION OF THE "NATIONAL ELECTRIC CODE". PROVIDE CODE REQUIRED CLEARANCES AROUND ALL

MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM TO NEMA, NATIONAL ELECTRIC CODE (NEC), AND UNDERWRITERS LABORATORIES (U.L.) STANDARDS IN EVERY CASE WHERE SUCH STANDARDS HAVE BEEN

VERIFY VOLTAGE DROPS AND A.I.C. RATINGS FOR ALL EQUIPMENT CONNECTED, AND VERIFY SIZE OF ELECTRICAL SYSTEM BREAKERS, CONDUITS, ETC.

DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MAKE. QUICK-BREAK TYPE NEMA 1 ENCLOSURE (NEMA 3R FOR OUTDOOR). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER PROVIDE ALL FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAWMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. FOR

PANELBOARDS SHALL BE AS MANUFACTURED BY SQUARE "D", GENERAL ELECTRIC, OR CUTLER HAMMER; MEETING U.L. STANDARDS 30 AND 67, WITH U.L. LABEL. ALL CONDUCTOR TERMINALS TO BE U.L. FOR MINIMUM 75°C.

BREAKERS TO BE THERMAL MAGNETIC TYPE. BOLT-ON, QUICK-MAKE, QUICK- BREAK TYPE SINGLE UNIT CONSTRUCTION. TWO AND THREE POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. ALL BREAKERS CONNECTED TO LIGHTING BRANCH CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD".

PANELBOARD CABINETS SHALL BE ONE PIECE CODE GAGE GALVANIZED STEEL WITH MOUNTING STUDS. WIRING GUTTERS OF AMPLE SIZE AND KNOCKOUTS FOR CONDUIT CONNECTIONS AS REQUIRED. BUS BARS SHALL BE 98 % CONDUCTIVE COPPER. FRONTS SHALL BE ONE PIECE CODE GAGE STEEL WITH ADJUSTABLE FASTENERS. PROVIDE FLUSH MOUNT UNITS UNLESS OTHERWISE INDICATED. PROVIDE A PLASTIC COVERED TYPEWRITTEN SCHEDULE IDENTIFYING ALL BRANCH CIRCUITS INSIDE EACH CABINET.

GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUITS, SUPPORTS, CABINETS, PANELBOARDS AND SYSTEM GROUNDING NEUTRAL MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING. WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT, GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE CONDUIT OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED IN ACCORDANCE WITH "NEC" TABLE 250-95.

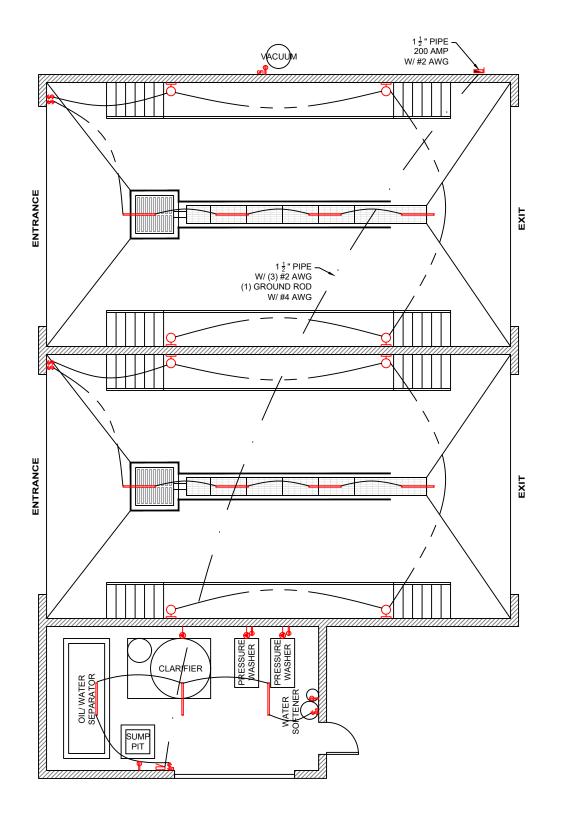
CONDUIT SHALL BE SIZED TO COMPLY WITH "NEC" FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED, MINIMUM SIZE OF 1/2" ABOVE GRADE (UNLESS 3/4" IS REQUIRED BY LOCAL JURISDICTION). PROVIDE RIGID STEEL CONDUIT BELOW GRADE, MINIMUM SIZE OF 3/4". PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS #W-C563, FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLINGS SHALL BE SET-SCREW TYPE. CLAMP CONDUIT TO BOXES WITH BUSHINGS INSIDE AND LOCKNUT OUTSIDE. TYPE AC & MC ARMORED CABLE IS ACCEPTABLE IN CONSTRUCTION TO BE SECURELY FASTENED TO STRUCTURE (UNLESS NOT ACCEPTABLE BY LOCAL JURISDICTION.)

CONDUCTORS SHALL BE INSULATED SOFT ANNEALED 98 % PURE COPPER WITH COLOR CODING, B & S GAGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. ALUMINUM CONDUCTORS SHALL NOT BE "THHN" MAY NOT BE USED UNDERGROUND,

AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 VOLT AND TYPES AS FOLLOWS:

#10 AND SMALLER: THW, THHN, OR THWN #8 AND LARGER: THW OR TH SERVICE ENTRANCE: USE-RHW

WIRE THROUGH FLUORESCENT FIXTURES OR WITHIN 3" OF HEATING EQUIPMENT TO BE





## SYMBOLS LEGEND

- SINGLE POLE SWITCH
- THREE WAY SWITCH
- WALL MOUNTED FIXTURE
- DUPLEX OUTLET
- GROUND FAULT CIRCUIT INTERRUPTER
- 230 RECEPTACLE OUTLET
- 200 AMP PANEL
- DISCONNECT BOX

FLUORESCENT LIGHT FIXTURE

## **ELECTRICAL PLAN**

DATE	REVISION	
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08/27/2021	ADDENDUM No. 4	A



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ELECTRICAL PLAN

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