



CAMERON COUNTY PURCHASING

1100 East Monroe St,
Brownsville, Texas 78520
(956) 544-0871 Fax: (956) 550-7219

ADDENDUM # 2 - PAGE 1 of 6

DATE OUT: 7/21/23

**RFP TITLE: CAMERON COUNTY 835 EAST LEVEE & SAN BENITO ANNEX
BUILDING STANDBY POWER UPGRADES**

RFP NUMBER # 230704

DEADLINE: July 25, 2023 at 3:00 p.m. August 1, 2023 at 3:00 p.m.

*(IN ORDER TO AVOID DISQUALIFICATION – ALL ADDENDUMS MUST BE SIGNED AND RETURNED BY DEADLINE AND INCLUDED
IN THE SEALED BID PACKAGE SUBMITTED)*

1.- CHANGE # 1

RFP DUE DATE WILL BE CHANGE TO THE FOLLOWING:

FROM

DATE DUE: ~~July 25, 2023-~~ DUE NO LATER THAN 3:00 P.M.

TO:

DATE DUE: August 1st, 2023- DUE NO LATER THAN 3:00 P.M.

Note:

This addendum is issued for the purpose of answering request for clarifications submitted by participants

This addendum shall become part of the RFP and all RESPONDERS/PARTICIPANTS shall be bound by its content. All aspects of the scope of work/services not covered herein shall remain the same.

Company Name _____ Phone # _____

Vendor Signature _____ Date _____

Must include and return with Bid package

ADDENDUM # 2 - PAGE 2 of 6

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2.- RFP - Request for clarifications submitted by Responders/Participants:

Please find answers to questions submitted by participating contractors for RFP # 230704 **issued by Project
Engineering Firm “Ethos Engineering”.**

Contents:

A. Purpose and Intent

B. Clarifications

C. Specifications

D. Drawings

TOTAL of 5 pages below



1126 S. Commerce St.
 Harlingen, TX 78550
 Off: (956) 230-3435
 Fax: (956) 720-0830
www.ethoseng.net



July 21, 2023
 Cameron County 835 East Levee & San Benito Annex Building
 Standby Power Upgrades

ADDENDUM NO. 2

A. PURPOSE AND INTENT

This addendum is issued for the purpose of modifying the plans for the project referenced above. This addendum shall become part of the contract and all contractors shall be bound by its content. All aspects of the specifications and drawings not covered herein shall remain the same. The General Conditions and the Special Conditions of the specifications shall govern all parts of the work and apply in full force to this addendum.

B. CLARIFICATIONS

- 1) For 835 East Levee Building, existing HVAC Controls are by Automated Logic Controls (ALC). For all related work with HVAC Controls at this building contact Brice Chandler at (956) 929-0533.
- 2) Contractor Questions:
 - a) Do you have a POC (name & number) for Johnson Controls?
Response: Robert Garza (956) 357-9684.
 - b) Do you have a POC (name & number) for Tremco?
Response: Richard L. Garcia (361) 765-4371.
Certified Tremco Roofers are as follows:
 - I. **Atlas Universal Roofing (713) 695-1626**
 - II. **Sechrist Hall Roofing Bill McBride (956) 423-7086**
 - III. **Rio Roofing Inc. Tom Gonzalez (956) 423-3359**
 - IV. **Haeber Roofing Company Don Rucker (361) 851-8142**
 - V. **Port Enterprises Inc. (361) 289-2944**
 - VI. **Rain King Inc. Jared Cain (361) 576-0606**
 - VII. **Rain Seal Master Roofing & Sheet Metal Ramon Lozano (361) 576-0926**
 - VIII. **American Roofing & Metal Toby Cargile (210) 224-5463**
 - IX. **American Contracting USA Inc. Eddie Fuentes (956) 748-4030**
 - X. **Argio Roofing R. Escobedo (956) 748-9507.**
 - XI. **Tadco Roofing Javier Ramos (956) 227-4339**

c) Is this a Davis Bacon (wage scale) project?

Response: Davis Bacon wage scale is not required.

d) 835 East Levee Building:

i) On the feeder schedule (LE3.1) Feeder Runs from the ATS “HPA” to the existing “HPA” Gutter” are shown as 1200A, but ATS “HPA” and Disconnect “HPA” are called out as 800A. Please verify that ATS “HPA” and Disconnect “HPA” sized at 800A is the intent.

Response: ATS and Disconnect “HPA” to be sized for 1200A. The electrical building load would be managed under emergency power.

ii) On the feeder schedule (LE3.1) there is a callout for 1200A feeding the Gutter. Please verify that this run is from the New Generator to the Gutter.

Response: The feeder from the Generator to the Gutter is 1200A.

iii) The drawings seem to indicate that the Feeders from MSB should run to the ATS through the Gutter. Please verify if these runs from MSB need to be 1200A or if they can sized according to their corresponding ATS feeder indicated on the feeder schedule.

Response: Provide feeders from MSB to ATS as indicated on the schedule.

iv) The feeder schedule shows two separate feeders for MPB Gutter. One is copper conductor and the other is aluminum conductors. Please verify if the intent is to use copper or aluminum.

Response: The intent is to be aluminum from “MPB Gutter” to ATS “MPB”.

v) Disconnects are shown next to and corresponding with each ATS. Is the flow intended to be:

(1) Generator -> Safety Switch -> ATS,

(2) Switchboard MSB -> Safety Switch -> ATS

(3) ATS -> Safety Switch – Corresponding Load Side Switchboard

Response: The flow is Generator -> Safety Switch -> ATS.

e) San Benito Annex Building:

i) Please clarify that Utility Charges will be covered by the Owner or under contingency allowance.

Response: Owner will cover electrical utility charges.

ii) Building Permits: it would be the contractor’s responsibility.

iii) Please Clarify if SM2.1 will need to be included in this scope of work. This was discussed during the walk-thru with indications that the AC units will remain shut down on generator activation rather than use a staggered start-up sequence.

Response: Scope of work on sheet SM2.1 is to be included.

C. SPECIFICATIONS

1) Section 012100 - Allowances:

- a) Total Allowance amount shall be **\$80,000** broken down as follows:
 - i) Contingency Allowance Bid Item "A": **\$50,000.**
 - ii) HVAC Controls Retro-Commissioning: **\$10,000.**
 - iii) Gas Company Service (East Levee Bldg.) Connection Fee: **\$20,000.**
- Total: \$80,000.**

2) Section 262312 – Package Engine Generator:

- a) Manufacturers:
 - i) CAT HOLT Power System is an acceptable substitution; they shall meet or exceed the specified.
 - ii) Rolls-Royce MTU is an acceptable substitution; they shall meet or exceed the specified.

D. DRAWINGS

1) Sheet LE2.3:

- a) Replace HVAC Controls General Notes on their entirety with the following:
 - i) Existing HVAC Building Automation System is by Automated Logic Controls (ALC). Contact ALC for all work associated with HVAC Controls. Building will be equipped with a new generator to provide emergency power during a normal power outage. Intent is that chillers and pumps start-up staggered and in an orderly fashion to avoid problems with generator start-up.
 - ii) Existing Sequence of Operation specification calls for the following parameters and setups that shall prevent all pumps and chillers from starting-up at the same time. This staggering and sequencing are critical for the proper start-up of generator. BAS shall always retain this setup including after a power outage and/or during generator emergency power:
 - (1) Minimum delay between on/off commands for Pumps and Chillers to prevent short cycling. 10 minute delay (adjustable) for Pumps and 15 minute delay (adjustable) for Chillers.
 - (2) In sequence, enable lag chiller and associated chilled water pump under the following conditions when lead chiller cannot meet load:
 - (a) If chilled water supply temperature cannot be maintained (rises 1°F above setpoint), and chiller load is above 90% (adj.) and remains there for preset time delay. To prevent short cycling of chillers, ensure that a minimum run time of 15 minutes is programmed.
 - (b) First 30 minutes chiller plant is enabled for the day: Allow the lead chiller sufficient time, 30 min (adj) to attain CHWST setpoint.
 - (c) After the first 30 minutes, the delay to start the lag chiller shall be 10 minutes (adj).

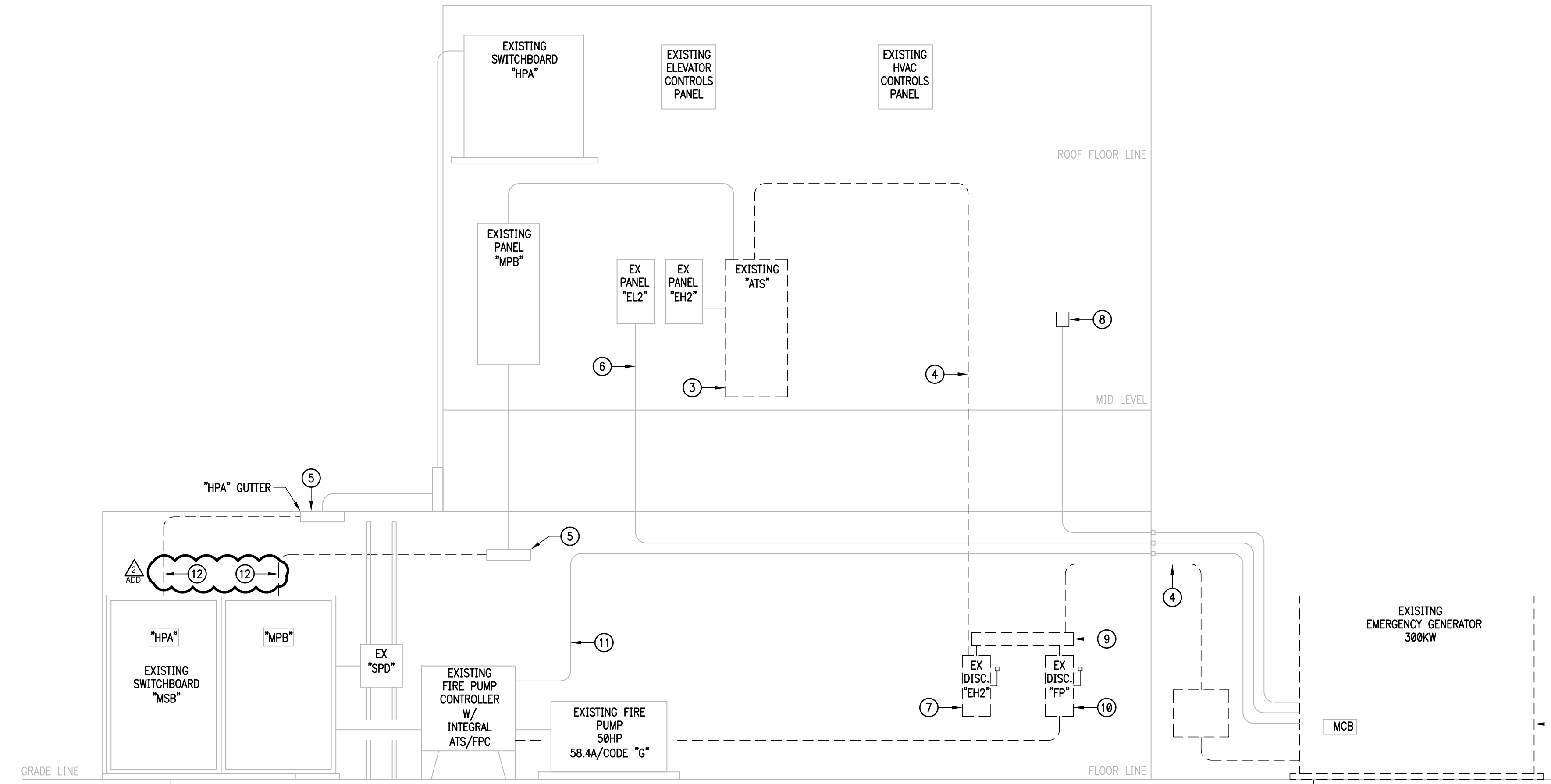
iii) ALC shall test, recommission, document, and demonstrate that proper sequencing and operation of the delays in pumps and chillers are programmed and in place as described above. General Contractor shall coordinate all activities associated with this work and include all costs in the base bid.

2) Sheet LE3.1:

a) Revised Electrical Riser Diagrams. See attached sheet.



03 EXISTING GENERATOR IMAGE
SCALE : NONE



01 835 EAST LEVEE BUILDING
DEMOLITION ELECTRICAL RISER DIAGRAM
SCALE : NONE

LINE TYPE LEGEND	
---	DNOTES EXISTING TO BE REMOVED
---	DNOTES EXISTING TO REMAIN
---	DNOTES NEW

DEMOLITION GENERAL NOTES:

1. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE IS REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
2. REMOVED MATERIALS SHALL BELONG TO OWNER. DELIVER THEM TO OWNERS DESIGNATED LOCATION. IF OWNER DOES NOT WANT THE REMOVED MATERIALS THEN REMOVE THEM FROM SITE & PROPERLY DISPOSE OF THEM.
3. IF REMOVAL OF EXISTING ELECTRICAL SYSTEMS RENDERS EXISTING ELECTRICAL SYSTEMS DOWNSTREAM TO REMAIN INOPERABLE, PROVIDE J-BOXES, CONDUIT WIRING AND SPLICES ABOVE ACCESSIBLE CEILING IN ORDER TO CONTINUE OPERATION.

DEMOLITION KEYED NOTES:

- 1 DISCONNECT AND REMOVE EXISTING DIESEL FUEL EMERGENCY GENERATOR. CONTRACTOR TO TRANSPORT THIS GENERATOR TO SAN BENITO ANNEX BUILDING FOR INSTALLATION.
- 2 REMOVE EXISTING GENERATOR FOUNDATION.
- 3 DISCONNECT AND REMOVE EXISTING AUTOMATIC TRANSFER SWITCH.
- 4 DISCONNECT AND REMOVE EXISTING FEEDER - TYPICAL.
- 5 RETAIN EXISTING WIRING GUTTER.
- 6 TEMPORARILY DISCONNECT EXISTING HEATER AND BATTERY CHARGER 120V CIRCUITS.
- 7 DISCONNECT AND REMOVE EXISTING SAFETY SWITCH.
- 8 DISCONNECT AND REMOVE EXISTING GENERATOR REMOTE ANNUNCIATOR INCLUDING CABLING. RETAIN EXISTING RACEWAY.
- 9 REMOVE EXISTING WIRING GUTTER.
- 10 DISCONNECT AND REMOVE EXISTING 400A SAFETY SWITCH. RETAIN FOR REUSE.
- 11 DISCONNECT AND REMOVE EXISTING START SIGNAL CABLING. RETAIN RACEWAY FOR REUSE.
- 12 DISCONNECT AND REMOVE EXISTING FEEDER FROM EXISTING SWITCHBOARD TO WIRING GUTTER.

FEEDER SCHEDULE:

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
800	(3-RUNS EACH) 3" - 4#350KCMIL & #3/0C	MPB GUTTER

SIZING METHOD: ALUMINUM 75°C

FEEDER SCHEDULE:

FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
80	1.25" - 3#3 & #8G	DISC. FP
800	2-RUNS EACH 4" - 4#600KCMIL & #1/0C	DISC. HPA, ATS HPA, DISC. MPB, ATS MPB, HPA GUTTER
1200	3-RUNS EACH 3" - 4#500KCMIL & #3/0C	HPA GUTTER
1200	3-RUNS EACH 4" - 4#600KCMIL & #3/0C	GUTTER

SIZING METHOD: COPPER 75°C

ELECTRICAL RISER
KEYED NOTES:

- 1 PROVIDE BI-FUEL DIESEL/GASEOUS EMERGENCY GENERATOR GENERAC MODEL SB600, 60HZ, 600KW, 277/480V, 3ø, WITH UPSIZED ALTERNATOR (K0832124Y23 - 832 KW); 1200A/3P OUTPUT CIRCUIT BREAKER. PROVIDE WITH ALUMINUM WEATHER SOUND ATTENUATED LEVEL 2 HOUSING MODEL, BATTERY CHARGER & HEATER, RADIATOR & BLOCK HEATER, VIBRATION ISOLATION, 48 HOUR SKID BASE TANK, EXHAUST & SILENCER. PROVIDE EMERGENCY INPUT CONTACTS FOR EACH ELEVATOR.
- 2 PROVIDE GENERATOR FOUNDATION. REFER TO STRUCTURAL DRAWINGS.
- 3 PROVIDE A NEMA 1 SURFACE MOUNT WIREWAY WITH 80% FREE AREA AND HINGED FRONT COVER FOR SPLICING FEEDERS. PROVIDE POLARIS CONNECTORS.
- 4 PROVIDE FEEDER - TYPICAL.
- 5 REUSE EXISTING WIRING GUTTER. PROVIDE POLARIS CONNECTORS FOR SPLICING WIRING. RETAIN EXISTING FEEDER FROM EXISTING GUTTER TO EXISTING PANELBOARD/SWITCHBOARD.
- 6 RECONNECT EXISTING HEATER AND BATTERY CHARGER 120V CIRCUITS. IF EXISTING CIRCUITS DO NOT REACH NEW POINTS OF CONNECTIONS PROVIDE NEMA 3R WALL MOUNTED JUNCTION BOX TO SPLICE AND EXTEND BRANCH CIRCUITS.
- 7 PROVIDE AUTOMATIC TRANSFER SWITCH. 800A RATED, 277/480V, 3ø, 4-POLE, NEMA 1.
- 8 PROVIDE GENERATOR REMOTE ANNUNCIATOR. PROVIDE NEW CABLING IN EXISTING RACEWAY.
- 9 PROVIDE NEMA 1 WIRING GUTTER WITH 80% FREE AREA.
- 10 REINSTALL EXISTING 400A SAFETY SWITCH. PROVIDE NEW 400A FUSES.
- 11 PROVIDE 2#14 FOR GENERATOR START SIGNAL IN EXISTING RACEWAY.
- 12 PROVIDE 3/4" x 10' COPPER CLAD GROUND ROD AND #1/0 BARE COPPER GROUND CONDUCTOR.
- 13 PROVIDE 1" RACEWAY WITH 2#14 FOR GENERATOR START SIGNAL.
- 14 PROVIDE 4" CONCRETE HOUSEKEEPING PAD.
- 15 PROVIDE 800A, 3P3F, 800AF, 600V, NEMA 1, S/N SAFETY SWITCH.
- 16 PROVIDE RACEWAY WITH CONTROL CABLING UP TO ROOF LEVEL. INTERFACE GENERATOR WITH EXISTING HVAC AND ELEVATORS CONTROLS. SEE DETAIL #03/E2.3.
- 17 PROVIDE AUTOMATIC TRANSFER SWITCH. 1200A RATED, 277/480V, 3ø, 4-POLE, NEMA 1.

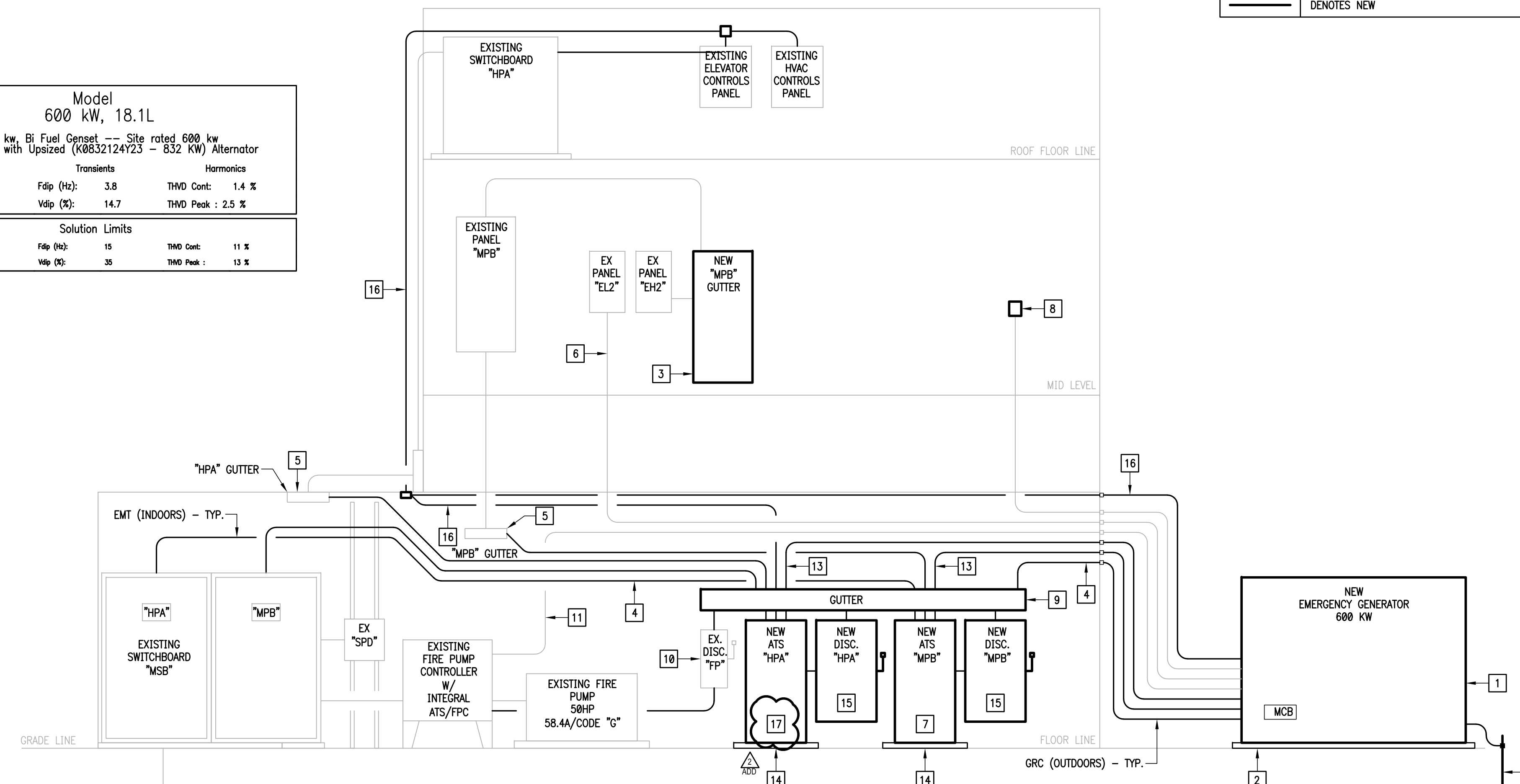
GENERATOR & LOAD SUMMARY

Selected Generator & Alternator			
Product Family Method :	Auto Select		
Product Family :	SD/MD Diesel		
Sizing Method :	Auto Select		
Generator :	1 x 600 kW, 18.1L		
Quantity :	1		
Alternator :	K0832124Y23 - 832 KW		
Load Summary -- Connected Load of 477.22 kW			
Running	Transients	Harmonics	
kW: 477.22	kW (Step) : 312.88	kVA:	126.25
kVA: 548.26	kW (Peak) : 498.59	THD Cont:	15.1%
PF: 0.87	kVA (Step) : 1004.94	THD Peak :	27.3%

Model 600 kW, 18.1L			
18.1 L Engine with Upsized (K0832124Y23 - 832 KW) Alternator			
Load Level	Transients	Harmonics	
Running : 80 %	Fdp (Hz): 3.8	THD Cont:	1.4 %
Peak : 78	Vdp (%): 14.7	THD Peak :	2.5 %
Solution Limits			
Max Loading : 80 %	Fdp (Hz): 15	THD Cont:	11 %
	Vdp (%): 35	THD Peak :	13 %



04 NEW GENERATOR IMAGE
SCALE : NONE



02 835 EAST LEVEE BUILDING
NEW ELECTRICAL RISER DIAGRAM
SCALE : NONE

