



## ADDENDUM TO THE CONTRACT

for the

### JUNEAU DOUGLAS TREATMENT PLANT ELECTRICAL UPGRADES

Contract No. BE21-141

**ADDENDUM NO.:** ONE

**CURRENT DEADLINE FOR BIDS:**

June 17, 2021

**PREVIOUS ADDENDA:** NONE

**ISSUED BY:**

City and Borough of Juneau  
ENGINEERING DEPARTMENT  
155 South Seward Street  
Juneau, Alaska 99801

**DATE ADDENDUM ISSUED:**

**June 11, 2021**

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <https://juneau.org/engineering-public-works/current-bids-and-rfps>

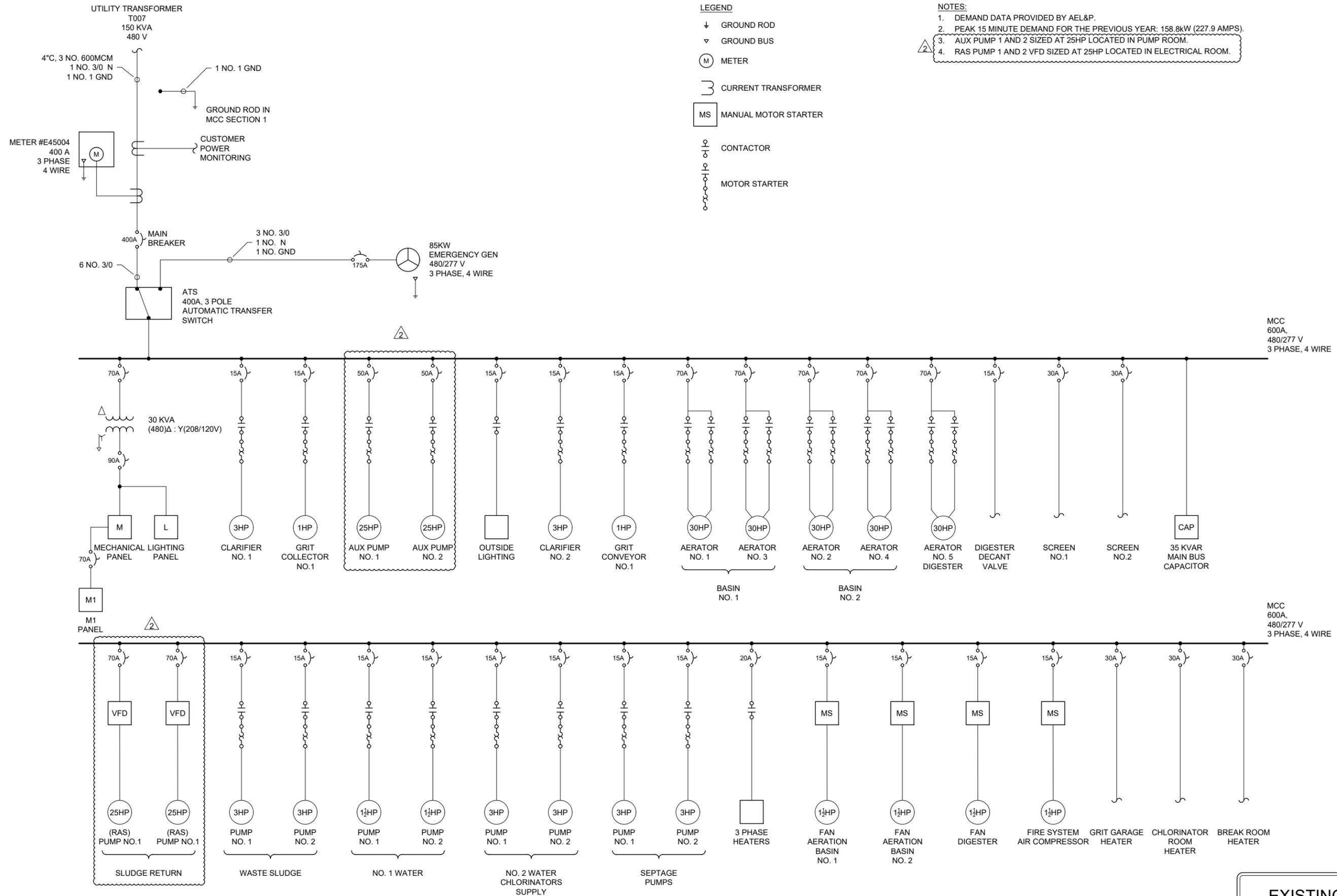
**DRAWINGS:**

- Item No. 1 SHEET E-06 – One Line (Existing)  
**Delete and replace** SHEET E-06 **with** the attached SHEET E-06  
Revisions include:  
-Change motor size on Aux Pump 1 and 2 to 25HP.  
-Change circuit breaker size on Aux Pump 1 and 2 to 50A.  
-Change motor size on RAS Pump 1 and 2 to 25HP.  
-Change circuit breaker size on RAS pump 1 and 2 to 70A.
- Item No. 2 SHEET E-12 – Electrical Gear Elevated View Section 2 (New)  
**Delete and replace** SHEET E-12 **with** the attached SHEET E-12  
Revisions include:  
-Change the RAS Pump VFD from 15 HP to 25 HP  
-Change the RAS Pump Line Reactor from 15 HP to 25 HP.
- Item No. 3 SHEET E-13 – One Line (New)  
**Delete and replace** SHEET E-13 **with** the attached SHEET E-13  
Revision includes:  
-Shunt trip operator is to disable main breaker and prevent ATS from operating.
- Item No. 4 SHEET E-14 – MDP-1 One Line (New)  
**Delete and replace** SHEET E-14 **with** the attached SHEET E-14  
Revisions include:  
-Change motor size on Aux Pump 1 and 2 to 25HP.  
-Change circuit breaker size on Aux Pump 1 and 2 to 50A.  
-Aux Pump VFDs are to remain undisturbed and are to be fed from new circuit breakers.  
-Change motor/VFD size on RAS Pump 1 and 2 to 25HP.  
-Change circuit breaker size on RAS pump 1 and 2 to 50A.

By:   
Greg Smith,  
Contract Administrator

Total number of pages contained within this Addendum: 6

# Addendum No. 1



- LEGEND**
- ⊥ GROUND ROD
  - ▽ GROUND BUS
  - (M) METER
  - CT CURRENT TRANSFORMER
  - MS MANUAL MOTOR STARTER
  - ⊏ CONTACTOR
  - ⊏ MOTOR STARTER

- NOTES:**
1. DEMAND DATA PROVIDED BY AEL&P.
  2. PEAK 15 MINUTE DEMAND FOR THE PREVIOUS YEAR: 158.8kW (227.9 AMPS).
  3. AUX PUMP 1 AND 2 SIZED AT 25HP LOCATED IN PUMP ROOM.
  4. RAS PUMP 1 AND 2 VFD SIZED AT 25HP LOCATED IN ELECTRICAL ROOM.



**JUNEAU DOUGLAS TREATMENT PLANT**  
**ELECTRICAL UPGRADES**  
 CBJ CONTRACT No. BE21-141  
 ONE LINE (EXISTING)  
 JUNEAU, AK

1	05/21		1
2	06/21		2
3			
4			
5			
6			
NO	DATE	REVISION	NO

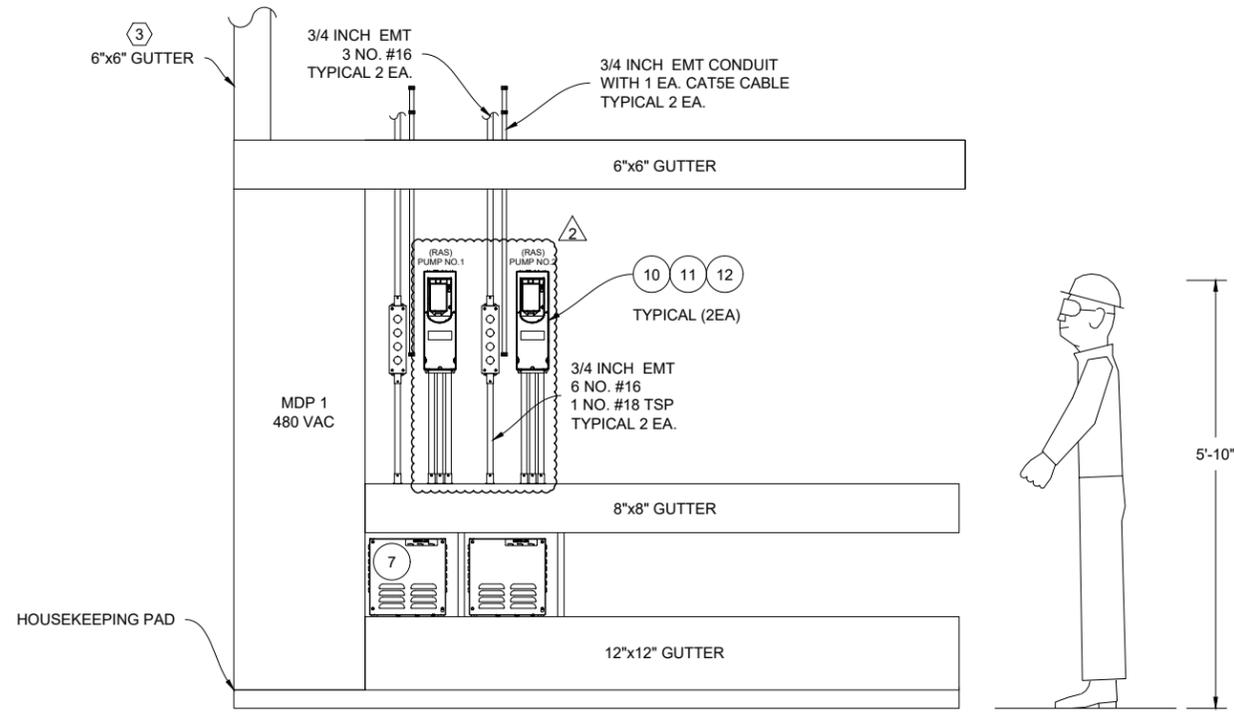


ENGINEER: VAM  
 CHECKED BY: BR  
 JOB #: J000472  
 DRAWN BY: PP  
 SCALE: N/A  
 DATE: 01/15/21

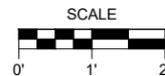
DRAWING #:  
**E-06**  
 SHEET  
**06** OF **21**

EXISTING

# Addendum No. 1



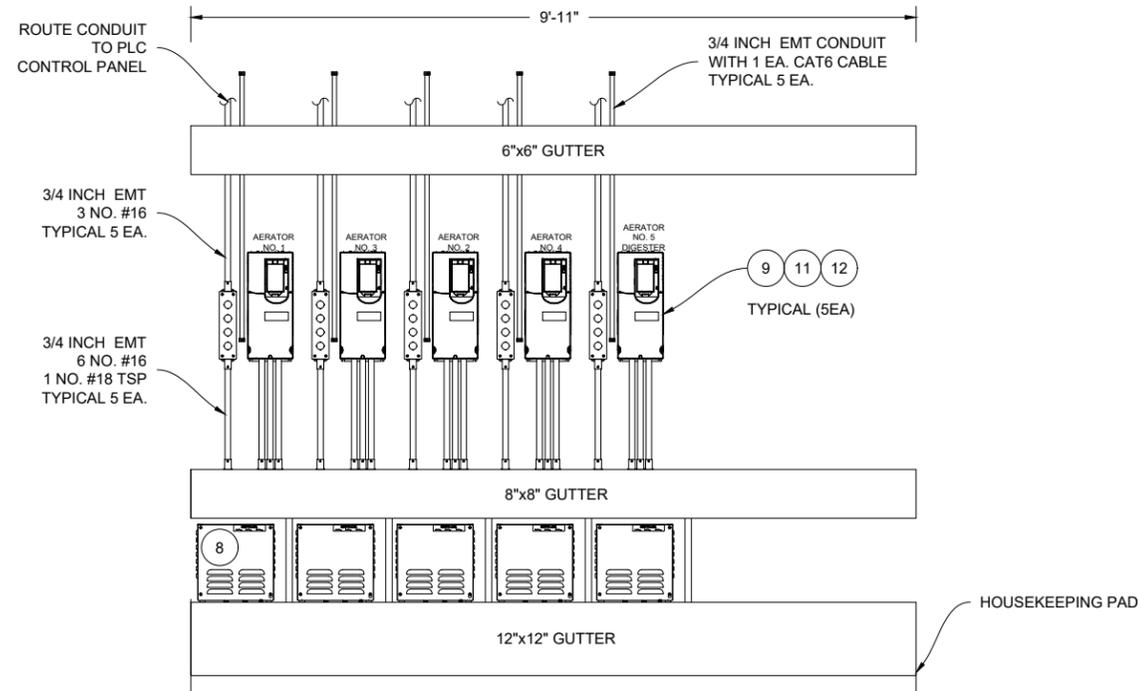
1 MCC SECTION 2, SIDE A (NEW)



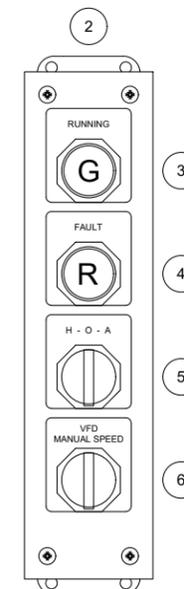
Item	Part #	Description	Manufacturer
<b>MCC SECTION 2 EQUIPMENT</b>			
1	PANELBOARD	480VAC, 3 Phase, 3 Wire, 66 Circuit, 400A Main Breaker	Square D
2	PBXD4	Pushbutton enclosure, 4 holes, 30mm	Hubbell-Wiegmann
3	800HC-QRTH2G	Push To Test Pilot Light, Green	Allen Bradley
4	800HC-QRTH2R	Push To Test Pilot Light, Red	Allen Bradley
5	800H-JR2B	3-Position Maintained Control Switch	Allen Bradley
6	800H-UR29	Potentiometer, 10 Kiloohms Resistive Element	Allen Bradley
7	KDRULD33PE01	25hp Line Reactor	TCI
8	KDRULD33PE01	30hp Line Reactor	TCI
9	20G11GD040JA0NNNNN	VFD 30 HP	Allen Bradley
10	20G11GD034JA0NNNNN	VFD 25 HP	Allen Bradley
11	20-750-1132C-2R	VFD I/O Expansion Card	Allen Bradley
12	20-HIM-A6	VFD Mounted HIM	Allen Bradley

**NOTES:**

- FIELD VERIFY DIMENSIONS.
- INSTALL 6 INCH GUTTER SO THAT FRONT COVER IS FLUSH WITH FRONT OF 8 INCH GUTTER TO PROVIDE PATH FOR CONDUITS. INSTALL STRUT AS NECESSARY.
- INSTALL VERTICAL GUTTER ON BOTH SIDES OF WALL. ROUTE EXISTING CONDUITS INTO GUTTER LOCATED IN HALLWAY. PROVIDE RACEWAY BETWEEN GUTTERS FOR EXISTING CIRCUITS.
- RAS PUMP 1 AND 2 VFDS SIZED AT 25HP.



2 MCC SECTION 2, SIDE B (NEW)



3 PUSHBUTTON STATION TYPICAL 7 EA. (NEW)



**JUNEAU DOUGLAS TREATMENT PLANT**  
**ELECTRICAL UPGRADES**  
 CBJ CONTRACT No. BE21-141  
**ELECTRICAL GEAR ELEVATED VIEW**  
 SECTION 2 (NEW)  
 JUNEAU, AK

1	05/21	1
2	06/21	2
3		
4		
5		
6		
NO	DATE	REVISION

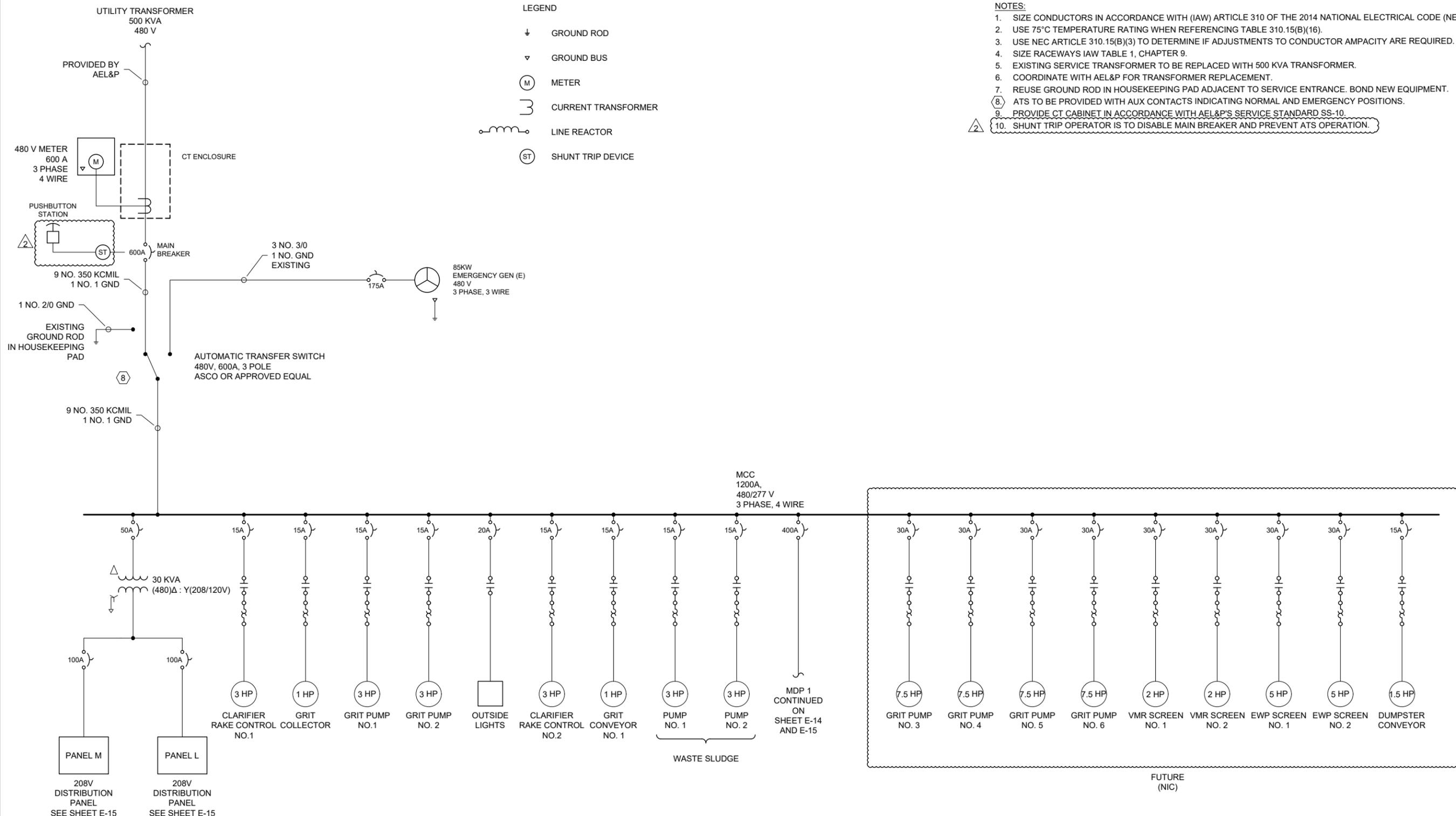


ENGINEER:	CHECKED BY:
VAM	BR
JOB #:	DRAWN BY:
J000472	PP
SCALE:	DATE:
N/A	01/15/21

DRAWING #:  
**E-12**  
 SHEET  
**12** OF **21**

NEW

# Addendum No. 1



- LEGEND**
- ↓ GROUND ROD
  - ▽ GROUND BUS
  - (M) METER
  - ⊃ CURRENT TRANSFORMER
  - ⊂ LINE REACTOR
  - (ST) SHUNT TRIP DEVICE

- NOTES:**
1. SIZE CONDUCTORS IN ACCORDANCE WITH (IAW) ARTICLE 310 OF THE 2014 NATIONAL ELECTRICAL CODE (NEC).
  2. USE 75°C TEMPERATURE RATING WHEN REFERENCING TABLE 310.15(B)(16).
  3. USE NEC ARTICLE 310.15(B)(3) TO DETERMINE IF ADJUSTMENTS TO CONDUCTOR AMPACITY ARE REQUIRED.
  4. SIZE RACEWAYS IAW TABLE 1, CHAPTER 9.
  5. EXISTING SERVICE TRANSFORMER TO BE REPLACED WITH 500 KVA TRANSFORMER.
  6. COORDINATE WITH AEL&P FOR TRANSFORMER REPLACEMENT.
  7. REUSE GROUND ROD IN HOUSEKEEPING PAD ADJACENT TO SERVICE ENTRANCE. BOND NEW EQUIPMENT.
  8. ATS TO BE PROVIDED WITH AUX CONTACTS INDICATING NORMAL AND EMERGENCY POSITIONS.
  9. PROVIDE CT CABINET IN ACCORDANCE WITH AEL&P'S SERVICE STANDARD SS-10.
  10. SHUNT TRIP OPERATOR IS TO DISABLE MAIN BREAKER AND PREVENT ATS OPERATION.



**JUNEAU DOUGLAS TREATMENT PLANT**  
**ELECTRICAL UPGRADES**  
 CBJ CONTRACT No. BE21-141  
**ONE LINE (NEW)**  
 JUNEAU, AK

1	05/21		1
2	06/21		2
3			
4			
5			
6			
NO	DATE	REVISION	NO



ENGINEER:	VAM	CHECKED BY:	BR
JOB #:	J000472	DRAWN BY:	PP
SCALE:	N/A	DATE:	01/15/21

DRAWING #:  
**E-13**  
 SHEET  
**13 OF 21**

NEW

# Addendum No. 1

CONTINUED FROM SHEET E-13

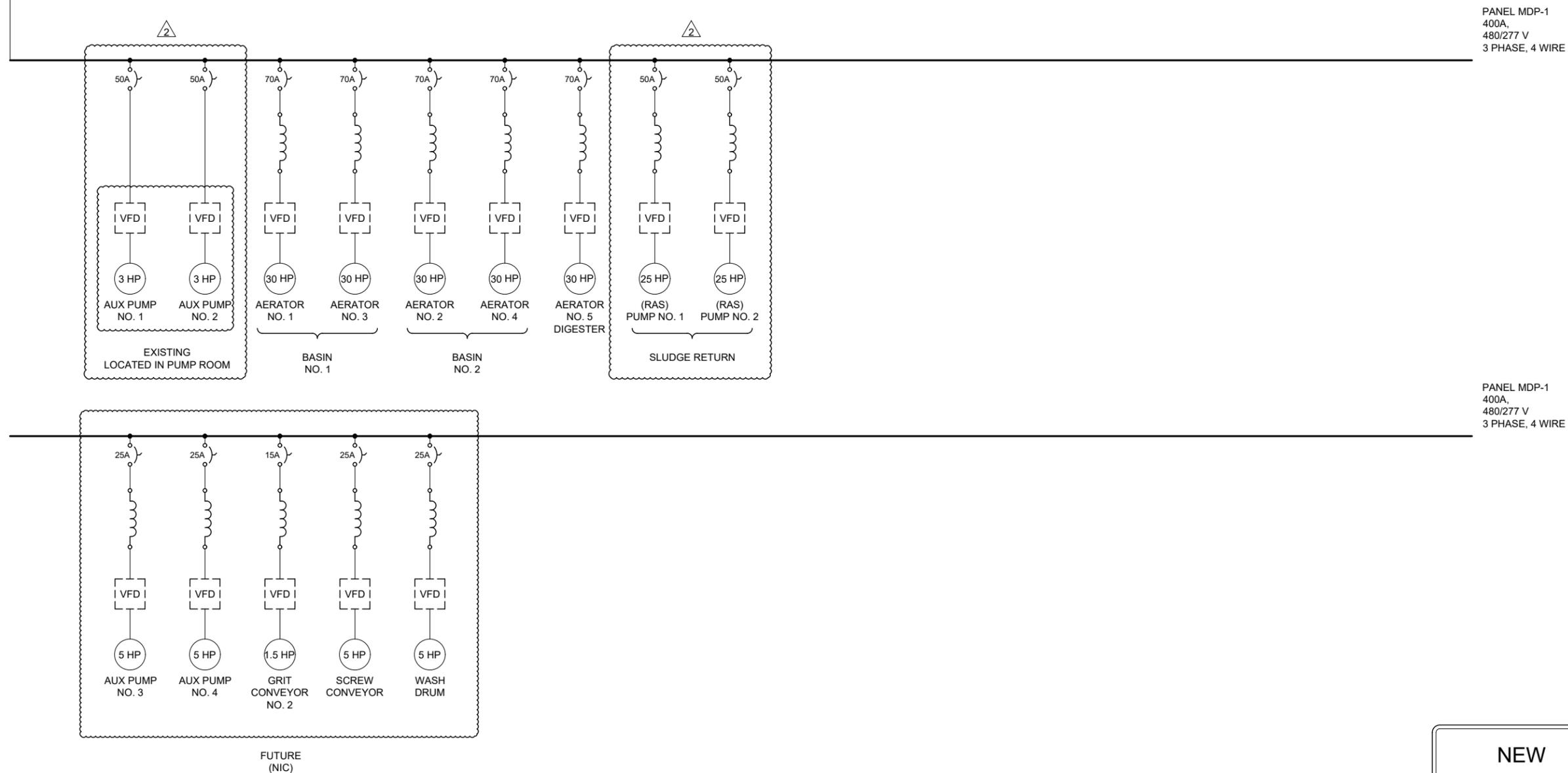
MCC 1  
480 V  
4°C, 3 NO. 600MCM  
1 NO. 3/0 N  
1 NO. 1 GND

**LEGEND**

- ⊥ GROUND ROD
- ▽ GROUND BUS
- (M) METER
- ⎓ CURRENT TRANSFORMER
- ⎓ LINE REACTOR
- (ST) SHUNT TRIP DEVICE

**NOTES:**

1. FOR FULL PANEL SCHEDULE SEE SHEET E-15
2. AUX PUMP NO.1 AND NO.2 WILL REMAIN UNDISTURBED.
3. AUX PUMP VFDS WILL REMAIN INPLACE LOCATED IN PUMP ROOM, CIRCUIT PROTECTION SIZED AT 25HP.
4. NEW RAS PUMP VFDS AND CIRCUIT PROTECTION SIZED AT 25HP.



**JUNEAU DOUGLAS TREATMENT PLANT**  
**ELECTRICAL UPGRADES**  
CBJ CONTRACT No. BE21-141  
**MDP-1 ONE LINE (NEW)**  
JUNEAU, AK

1	05/21		1
2	06/21		2
3			
4			
5			
6			
NO	DATE	REVISION	NO



ENGINEER: VAM  
JOB #: J000472  
SCALE: N/A

CHECKED BY: BR  
DRAWN BY: PP  
DATE: 01/15/21

DRAWING #:  
**E-14**  
SHEET  
**14** OF **21**

**NEW**