

- NOTES:**
- SEE DRAWING GE-7 FOR CONTINUATION.
  - AFTER DISCONNECTION OF (E) 350KW GENERATOR SUPPLY CONDUCTORS. MODIFY LENGTHS OF (E) 500KW GENERATOR SUPPLY CONDUCTORS FOR CONNECTION TO (E) MSN-ATS-4. SEE DRAWING GE-6.

1	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
Rev.	Date	By	Description

Designed J. MARIANO
Drawn C. DILIP
Checked J. MARIANO
Date: APRIL 2018

**CDM  
Smith**

2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax: (925) 246-9819



**ZONE 7 WATER AGENCY**  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE

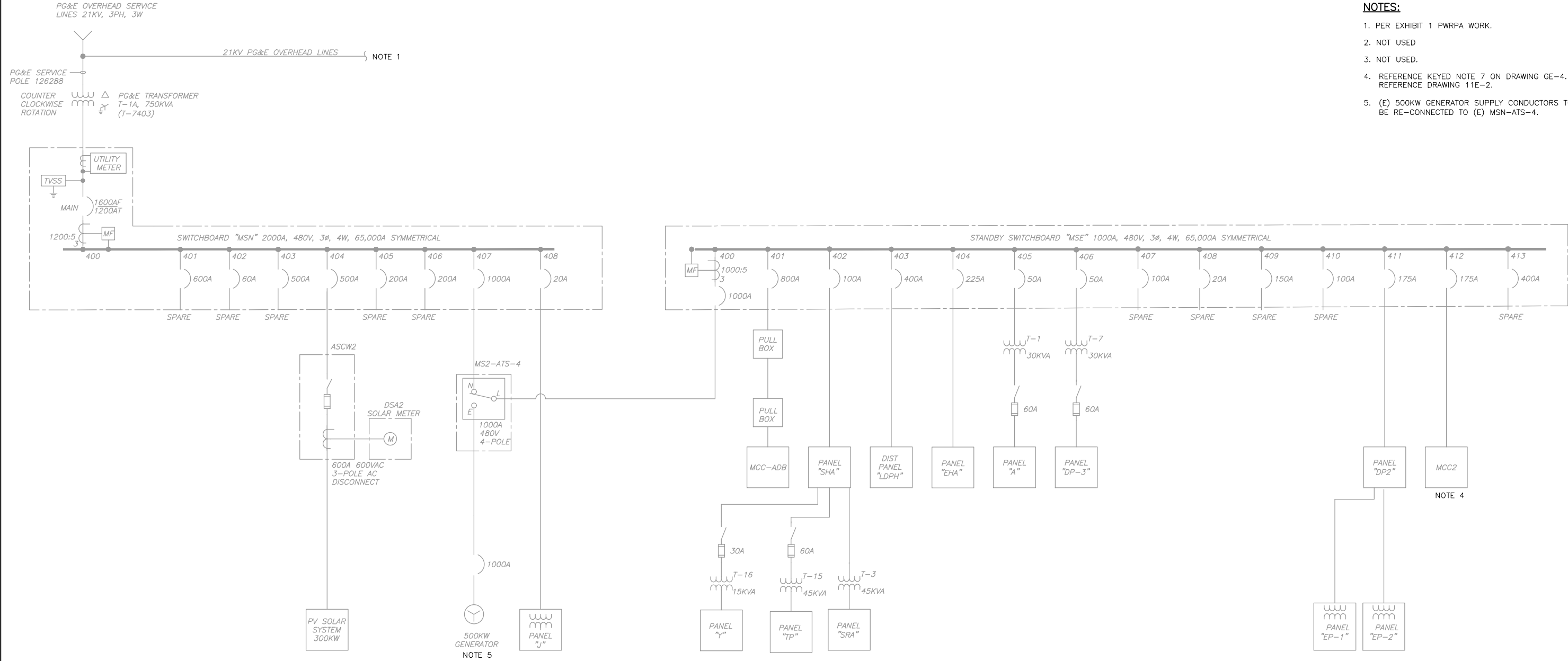
0 1"

IF NOT ONE INCH  
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT**

**SINGLE LINE DIAGRAM  
MSN AND MSE: DEMOLITION**

Scale NONE
Drawing No. GE-5
Sheet No. 168 of 281
File No. WC-274



- NOTES:**
1. PER EXHIBIT 1 PWRPA WORK.
  2. NOT USED
  3. NOT USED.
  4. REFERENCE KEYED NOTE 7 ON DRAWING GE-4. REFERENCE DRAWING 11E-2.
  5. (E) 500KW GENERATOR SUPPLY CONDUCTORS TO BE RE-CONNECTED TO (E) MSN-ATS-4.

2	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
1	1/31/18	JLJM	ADDENDUM 1
Rev.	Date	By	Description

Designed J. MARIANO
Drawn C. DILIP
Checked J. MARIANO
Date: APRIL 2018

**CDM  
Smith**

2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax: (925) 246-9819



**ZONE 7 WATER AGENCY**  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE

0 1"

IF NOT ONE INCH  
SCALE ACCORDINGLY

**DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT**

**SINGLE LINE DIAGRAM  
MSN AND MSE: MODIFICATIONS**

Scale NONE
Drawing No. GE-6
Sheet No. 169 of 281
File No. WC-274

XREFs: [DelValle2234 TitleBlock] Images: []  
Last saved by: DINEESHK Time: 3/29/2018 1:57:23 PM  
C:\p\p1\DINEESHK\045957\ED0602.dwg  
© 2017 CDM SMITH. ALL RIGHTS RESERVED.  
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

1	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
Rev.	Date	By	Description

Designed T. NGUYEN
Drawn K. RAY
Checked J. MARIANO
Date: APRIL 2018

**CDM  
Smith**  
2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax: (925) 246-9819



**ZONE 7 WATER AGENCY**  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE  
0 1"  
IF NOT ONE INCH  
SCALE ACCORDINGLY

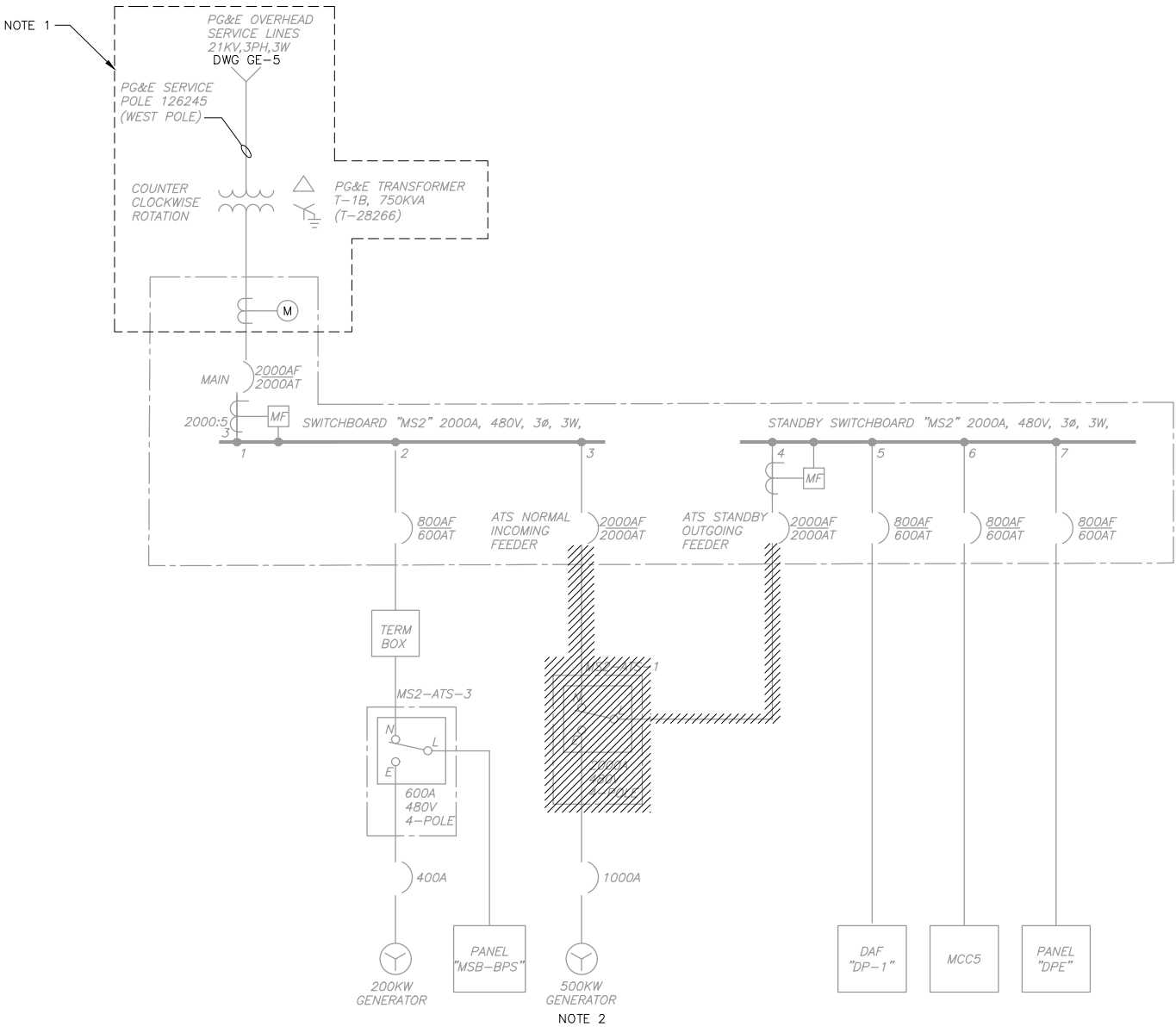
DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT

SINGLE LINE DIAGRAM  
MS2: DEMOLITION

Scale NONE
Drawing No. GE-7
Sheet No. 170 of 281
File No. WC-274

**NOTES:**

1. PER EXHIBIT 1 PWRPA WORK
2. AFTER DISCONNECTION OF EXISTING 500KW GENERATOR SUPPLY CONDUCTOR FROM EXISTING MS2-ATS-1, RECONNECT TO EXISTING MS2-ATS-4. SEE DWG GE-6.



1. PROVIDE NEW "JUMPER" CONDUCTORS WITHIN EXISTING SWITCHBOARD TO TIE "NORMAL" AND STANDBY" BUSES TOGETHER. UTILIZE EXISTING CONDUCTOR LUGS FOR TERMINATIONS. JUMPER CONDUCTOR SIZES SHALL BE 5-(4#500KCMIL, 1#250G).



<b>Designed</b> J. MARIANO
<b>Drawn</b> C. DILIP
<b>Checked</b> J. MARIANO
<b>Date:</b> APRIL 2018

2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax (925) 246-9819



BAR IS ONE INCH  
AT FULL SCALE

0 1"

IF NOT ONE INCH  
SCALE ACCORDINGLY

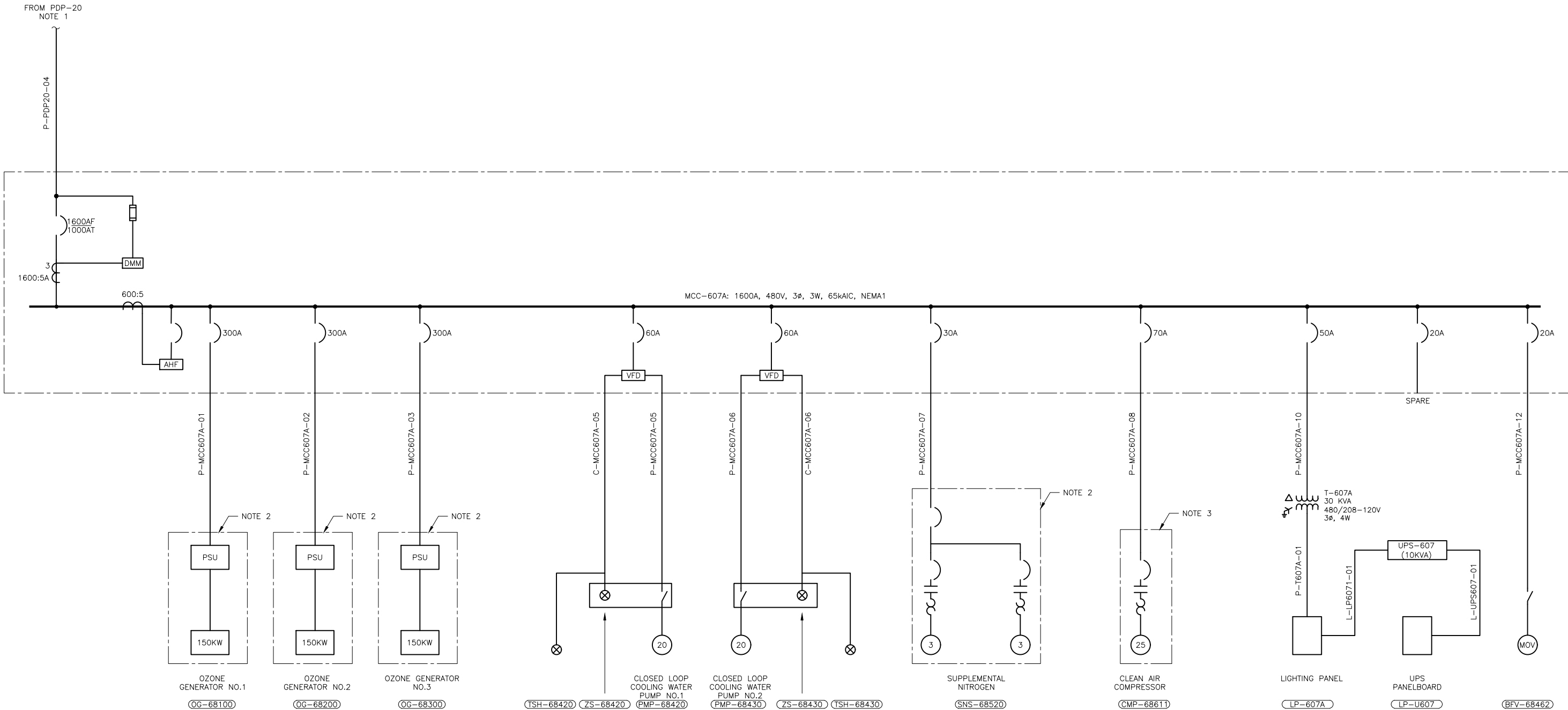
## SINGLE LINE DIAGRAM

### MS2: MODIFICATIONS

<b>Scale</b>	NONE
<b>Drawing No.</b>	GE-8
<b>Sheet No.</b>	171 of 281
<b>File No.</b>	WC-274

KREFS: [DelValle22xTitleBlock] Images: []  
 .ast saved by: DINEESHK Time: 3/29/2018 1:57:25 PM  
 C:\pw\_pl1\DINEESHK\0459537\E00603.dwg  
 © 2017 CDM SMITH ALL RIGHTS RESERVED.  
 REUSE OF DOCUMENTS: THESE DOCUMENTS AND DES

- NOTES:
- SEE DRAWING GE-12 FOR CONTINUATION.
  - EQUIPMENT NOTES SHALL BE FURNISHED BY OZONE SYSTEM SUPPLIER (OSS) AND INSTALLED BY CONTRACTOR.
  - DEVICES IN VENDOR FURNISHED PANELS TO BE SIZED BY VENDOR.



Rev.	Date	By	Description
2	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
1	1/31/18	TTN	ADDENDUM 1

Designed  
J. MARIANO  
Drawn  
C. DILIP  
Checked  
J. MARIANO  
Date:  
APRIL 2018



ZONE 7 WATER AGENCY  
100 North Canyons Parkway  
Livermore California, 94551

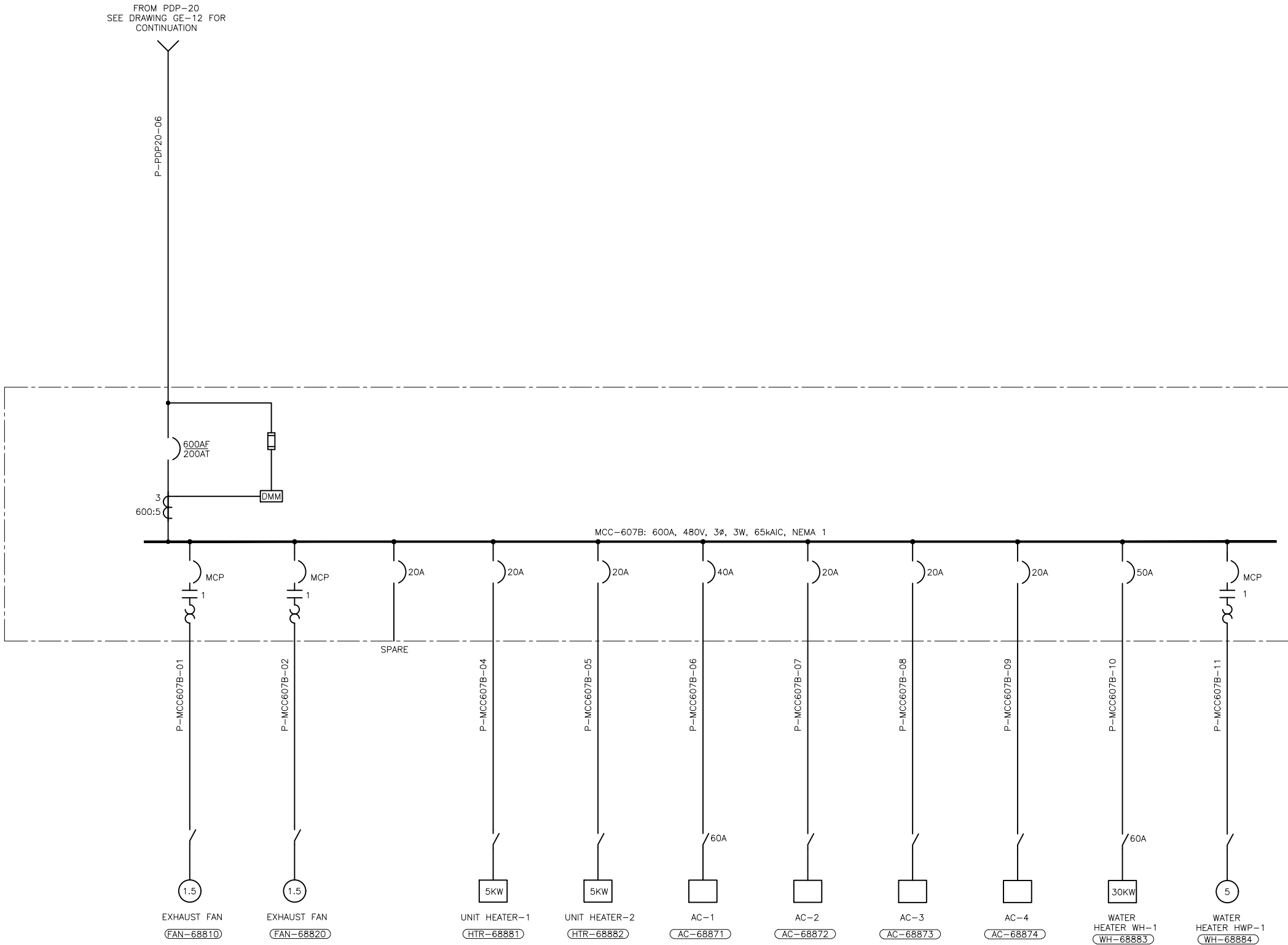
BAR IS ONE INCH  
AT FULL SCALE  
0 1"  
IF NOT ONE INCH  
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT

SINGLE LINE DIAGRAM  
MCC 607A: OZONE GENERATION BUILDING 1

Scale	NONE
Drawing No.	GE-9
Sheet No.	172 of 281
File No.	WC-274

XREFs: [DelValle234TitleBlock] Images: []  
Last saved by: DINEESHK Time: 3/29/2018 2:16:15 PM  
C:\pw\_p1\1\DINEESHK\0459537\ED0606.dwg  
© 2017 CDM SMITH. ALL RIGHTS RESERVED.  
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



Rev.	Date	By	Description
2	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
1	1/31/18	JLJM	ADDENDUM 1

Designed J. MARIANO
Drawn C. DILIP
Checked J. MARIANO
Date: APRIL 2018

**CDM  
Smith**

2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax: (925) 246-9819



**ZONE 7 WATER AGENCY**  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE

0 1"

IF NOT ONE INCH  
SCALE ACCORDINGLY

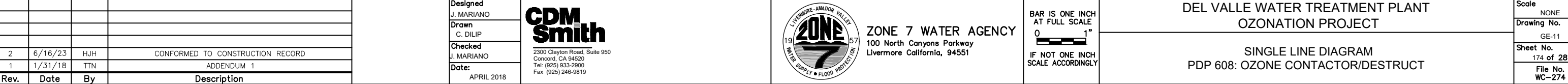
**DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT**

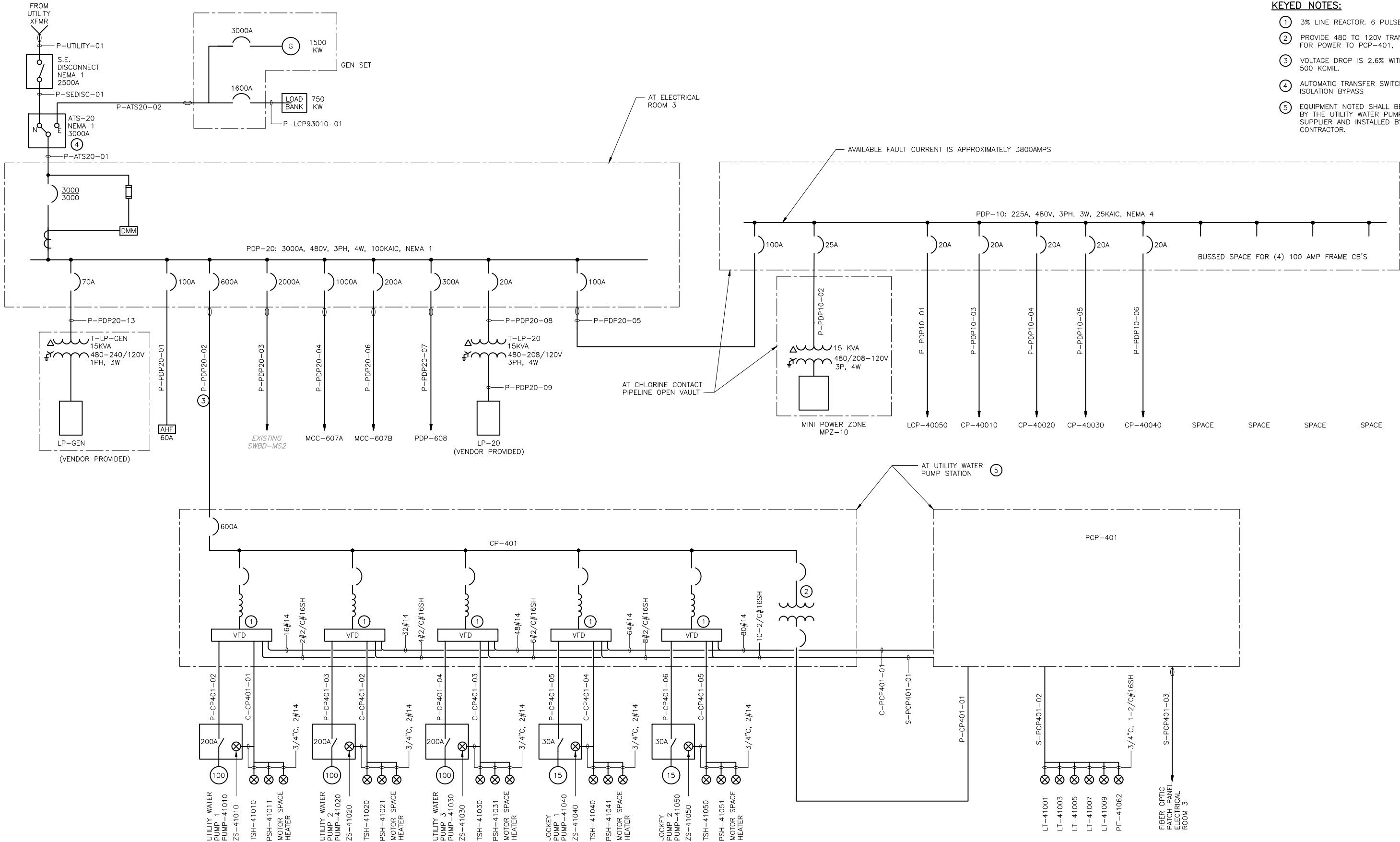
**SINGLE LINE DIAGRAM  
MCC 607B: OZONE GENERATION BUILDING 2**

Scale NONE
Drawing No. GE-10
Sheet No. 173 of 281
File No. WC-274

© 2017 CDM SMITH ALL RIGHTS RESERVED.  
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

1. EQUIPMENT NOTES SHALL BE FURNISHED BY THE OZONE SYSTEM SUPPLIER (OSS) AND INSTALLED BY THE CONTRACTOR.
2. CONTROL PANEL FURNISHED WITH MECHANICAL EQUIPMENT INCLUDING POWER DISCONNECT, MOTOR STARTER(S), CPT AND CONTROLS. SEE MECHANICAL SPECIFICATIONS.
3. EQUIPMENT NOTES SHALL BE SUPPLIED BY THE CARBON DIOXIDE SYSTEM SUPPLIER AND INSTALLED BY THE CONTRACTOR.





- KEYED NOTES:**
- ① 3% LINE REACTOR. 6 PULSE VFD
  - ② PROVIDE 480 TO 120V TRANSFORMER FOR POWER TO PCP-401,
  - ③ VOLTAGE DROP IS 2.6% WITH 2 SETS OF 500 KCML.
  - ④ AUTOMATIC TRANSFER SWITCH WITH ISOLATION BYPASS
  - ⑤ EQUIPMENT NOTED SHALL BE FURNISHED BY THE UTILITY WATER PUMPING SYSTEM SUPPLIER AND INSTALLED BY THE CONTRACTOR.

Rev.	Date	By	Description
2	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
1	1/31/18	TTN	ADDENDUM 1

Designed  
J. MARIANO  
Drawn  
K. RAY  
Checked  
J. MARIANO  
Date:  
APRIL 2018



ZONE 7 WATER AGENCY  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE  
0 1"  
IF NOT ONE INCH  
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT

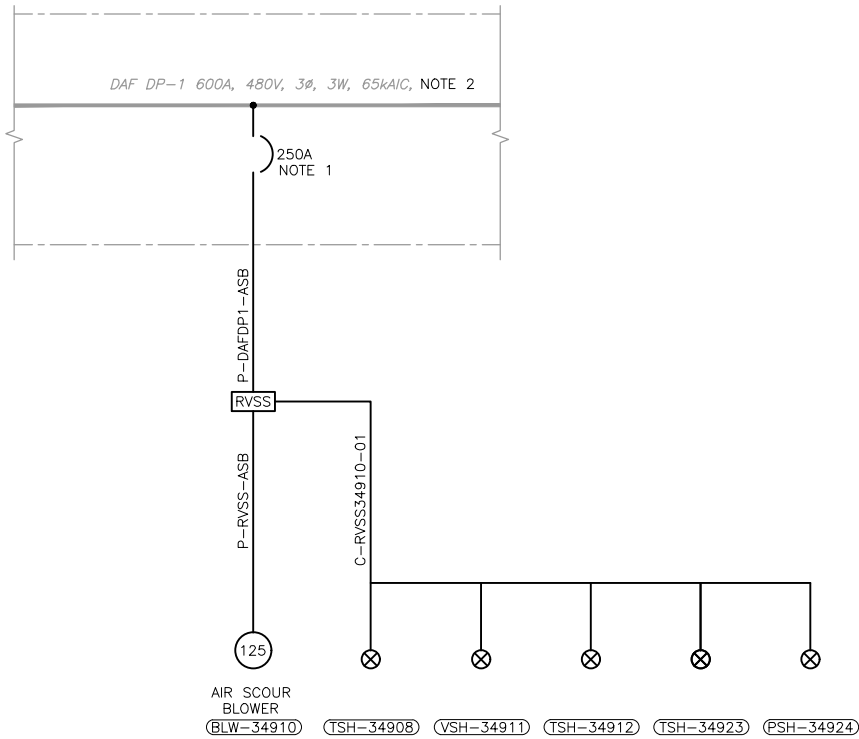
SINGLE LINE DIAGRAM PDP-20:  
ELECTRICAL ROOM 3 AND  
UTILITY WATER PUMP STATION

Scale  
NONE  
Drawing No.  
GE-12  
Sheet No.  
175 of 281  
File No.  
WC-274



XREFs: [DelValle22x34TitleBlock] Images: []  
Last saved by: DINEESHK Time: 3/29/2018 2:31:10 PM  
C:\pw\p1\DINEESHK\045957\ED00609.dwg  
© 2017 CDM SMITH. ALL RIGHTS RESERVED.  
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

- NOTES:
1. REPLACE EXISTING SPARE 125AMP CIRCUIT BREAKER WITH A NEW 250AMP CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL MATCH EXISTING MANUFACTURER.
  2. DAF DP-1 IS LOCATED IN THE FILTER GALLERY REFERENCE DRAWING 14WE-1.



DAF DP-1 PARTIAL SINGLE LINE  
DIAGRAM  
N.T.S.

1

-

2	6/16/23	HJH	CONFORMED TO CONSTRUCTION RECORD
Rev.	Date	By	Description

Designed
J. MARIANO
Drawn
C. DILIP
Checked
J. MARIANO
Date:
APRIL 2018

CDM

Smith

2300 Clayton Road, Suite 950  
Concord, CA 94520  
Tel: (925) 933-2900  
Fax: (925) 246-9819



ZONE 7 WATER AGENCY  
100 North Canyons Parkway  
Livermore California, 94551

BAR IS ONE INCH  
AT FULL SCALE  
0 1"  
IF NOT ONE INCH  
SCALE ACCORDINGLY

DEL VALLE WATER TREATMENT PLANT  
OZONATION PROJECT

SINGLE LINE DIAGRAM  
MCC DAF: AIR SCOUR BLOWER

Scale
NONE
Drawing No.
GE-14
Sheet No.
176 of 281
File No.
WC-274