

NOTES:  
 1. SEE MODES OF OPERATION SPECIFIED IN SECTION 16432.  
 2. TELEPHONE OUTLET FOR UTILITY COMPANY (REMOTE METER READING).

**A** 15kV SWITCHGEAR 20-MSWGR SINGLE LINE DIAGRAM  
 - N.T.S.

**CONFORMED DOCUMENTS  
 FOR CONSTRUCTION**

DESIGNED DB  
 DRAWN AJC/BOG  
 CHECKED MAG/WDH  
 DATE JULY, 2005

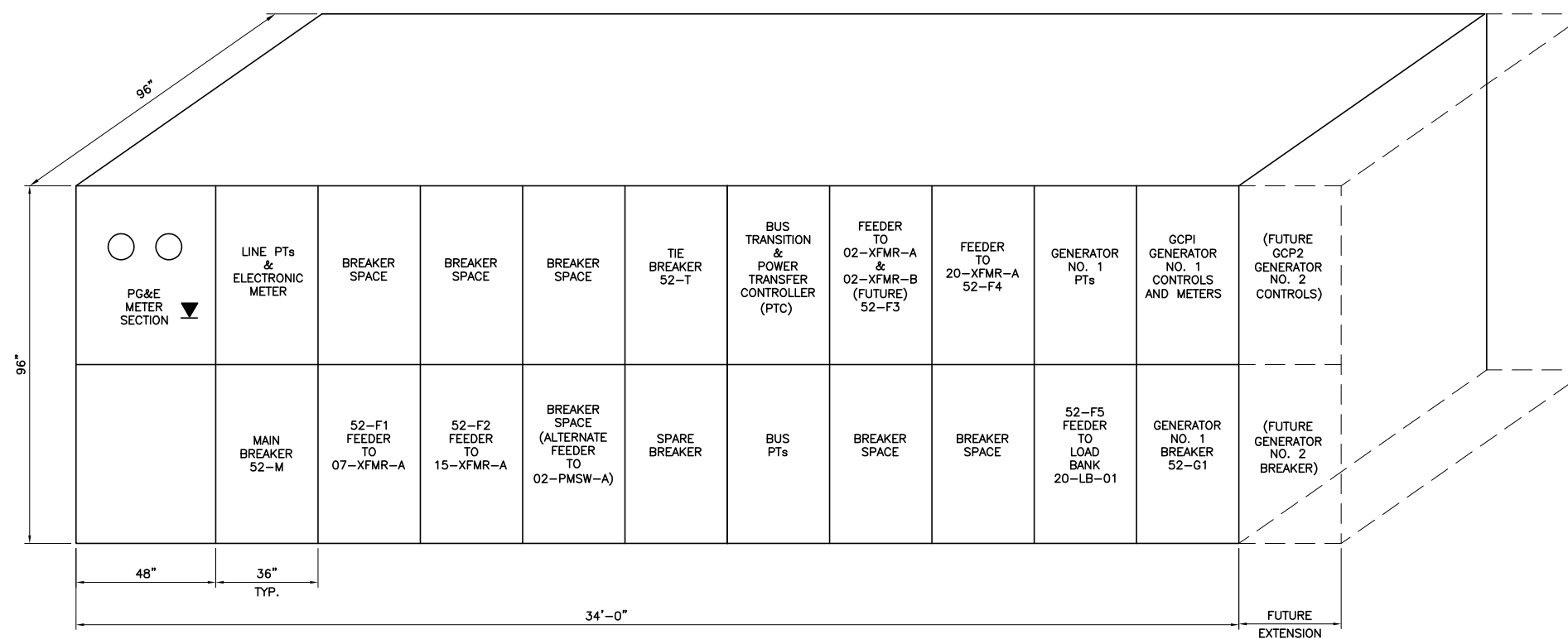


CITY OF PETALUMA  
 ELLIS CREEK WATER RECYCLING FACILITY  
 ELECTRICAL  
 SINGLE LINE DIAGRAM  
 15KV MAIN SWITCHGEAR 20-MSWGR

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 6069B.10  
 DRAWING NO. ES1  
 SHEET NO. 500 OF 740

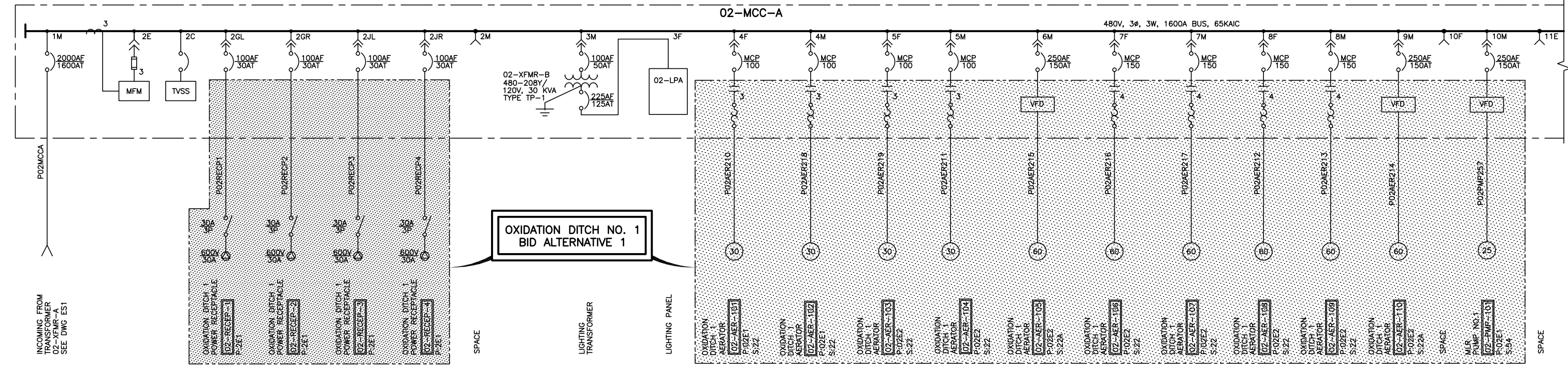
Last Saved By: JAS 4-22-05 11:05am



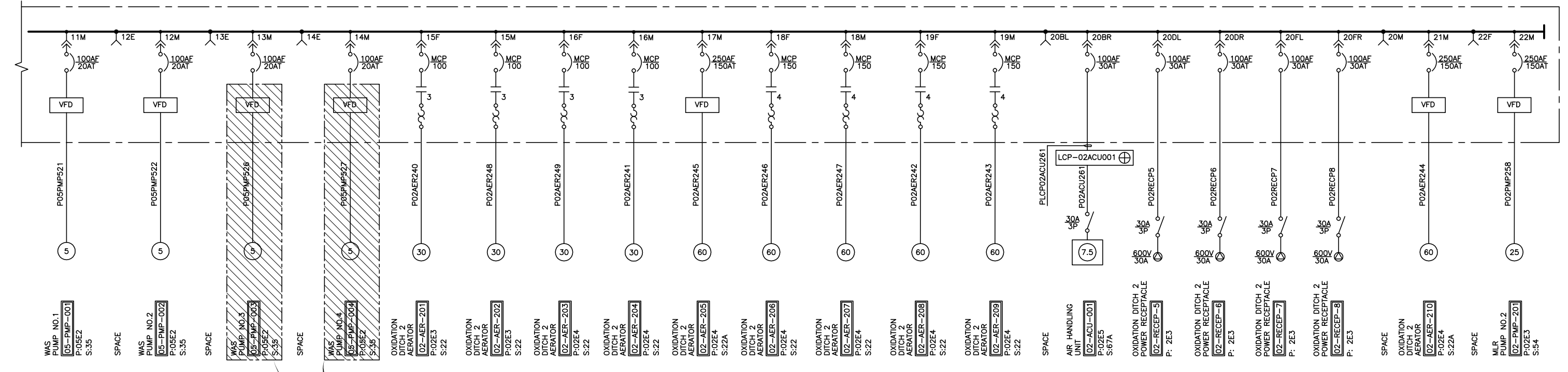
**A** SWITCHGEAR 20-MSWGR FRONT ELEVATION  
 NTS

Last Saved By: SSC - 4-14-05 04:09pm

|   |      |    |             |                    |  |  |  |  |  |                         |  |            |                     |                     |
|---|------|----|-------------|--------------------|--|--|--|--|--|-------------------------|--|------------|---------------------|---------------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |      |    |             | DESIGNED<br>DB     |  |  |  |  |  | CITY OF PETALUMA        | <b>VERIFY SCALES</b><br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0  1"<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JULY, 2005 | DISCIPLINE ENGINEER | JOB NO.<br>6069B.10 |
|   |      |    |             | DRAWN<br>LRP       |  |  |  |  |  | DRAWING NO.<br>ES2      |  |            |                     |                     |
|   |      |    |             | CHECKED<br>MAG/WDH |  |  |  |  |  | SHEET NO.<br>501 OF 740 |  |            |                     |                     |
|   |      |    |             | DATE               |  |  |  |  |  |                         |  |            |                     |                     |
| REV   | DATE | BY | DESCRIPTION |                    |  |  |  |  | ELLIS CREEK WATER RECYCLING FACILITY<br>ELECTRICAL<br>ELEVATION<br>15KV MAIN SWITCHGEAR 20-MSWGR |                         |  |            |                     |                     |



**OXIDATION DITCH NO. 1  
BID ALTERNATIVE 1**



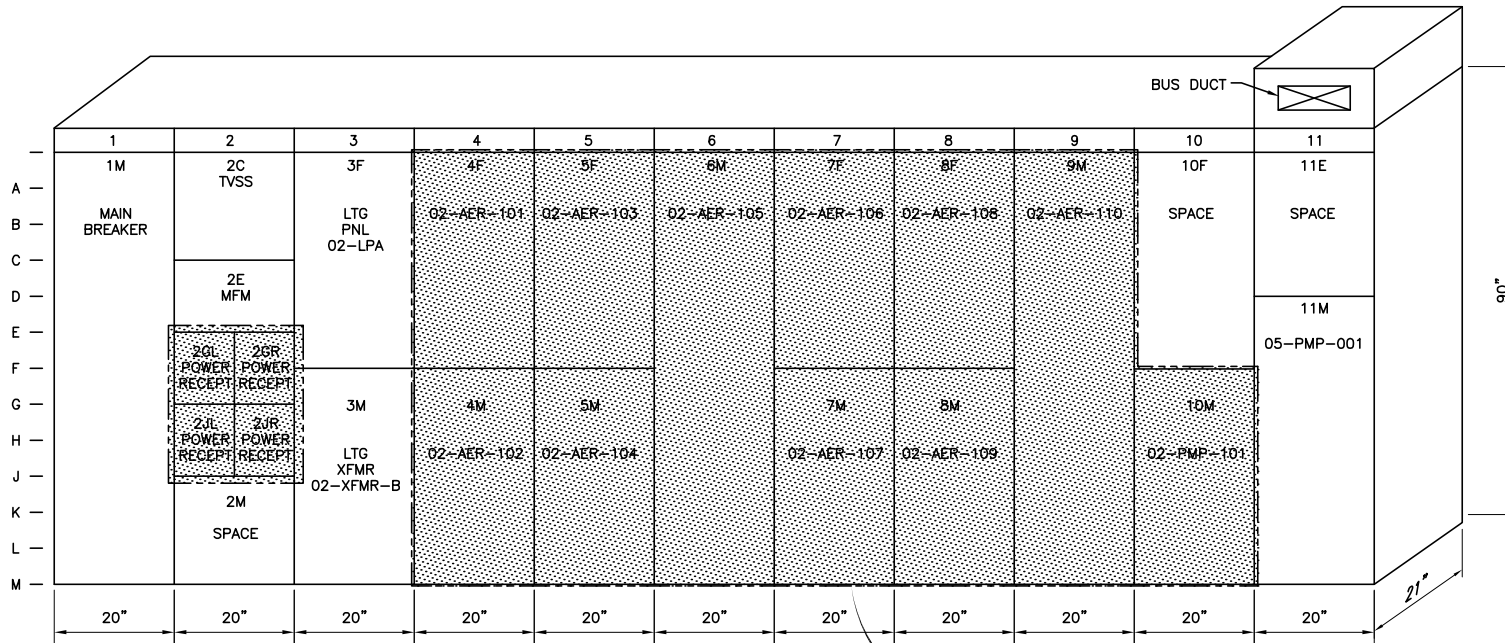
**NOT IN CONTRACT**

**A 02-MCC-A SINGLE LINE DIAGRAM**  
N.T.S.

**LEGEND:**  
 BID ALTERNATIVE. IF OXIDATION DITCH NO. 1 IS CONSTRUCTED AS PART OF THIS CONTRACT, THEN PROVIDE STARTER OVERLOAD & VFD'S AS SHOWN ON DWG.  
 INDICATES THAT WAS PUMP NO. 3 AND 4 ARE NOT PART OF THIS CONTRACT.  
 LCP IS PART OF AIR CONDITIONING UNIT PACKAGE.

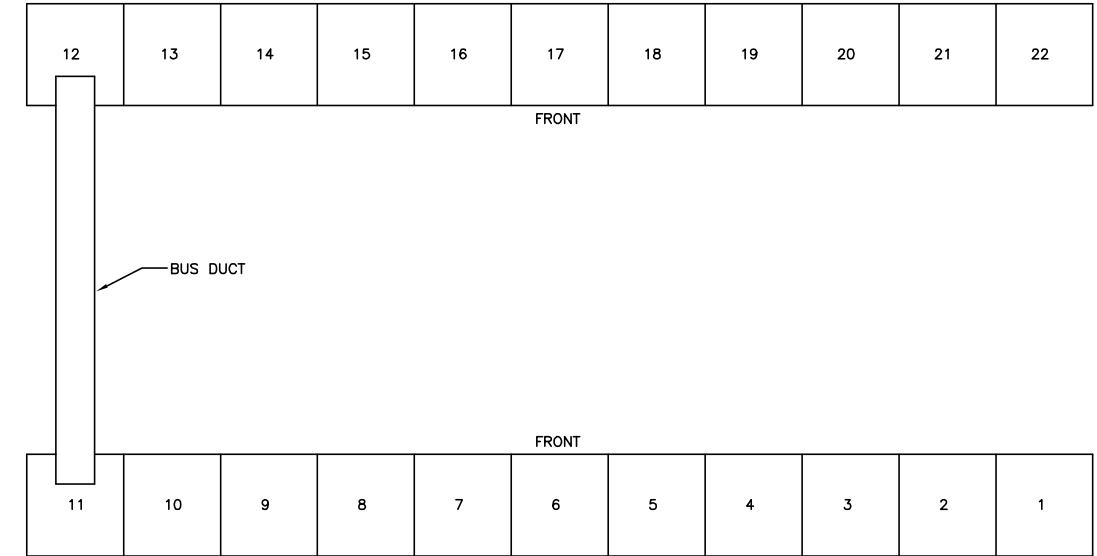
**NOTES:**  
 1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
 "P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.  
 2. SEE DRAWING ES4 FOR MCC ELEVATION.

|   |  |  |   |                         |                      |             |  |  |   |   |   |
|---|--|--|---|-------------------------|----------------------|-------------|--|--|---|---|---|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |  |  | DESIGNED<br>DB/SSG<br>DRAWN<br>AIC/BOG<br>CHECKED<br>LA<br>DATE<br>JULY, 2005 | DISCIPLINE ENGINEER<br> | PROJECT ENGINEER<br> | PARTNER<br> |  |  | CITY OF PETALUMA<br>ELLIS CREEK WATER RECYCLING FACILITY<br>ELECTRICAL<br>SINGLE LINE DIAGRAM<br>02-MCC-A | <b>VERIFY SCALES</b><br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>6069B.10<br>DRAWING NO.<br><b>ES3</b><br>SHEET NO.<br>502 OF 740 |
|---|--|--|---|-------------------------|----------------------|-------------|--|--|---|---|---|

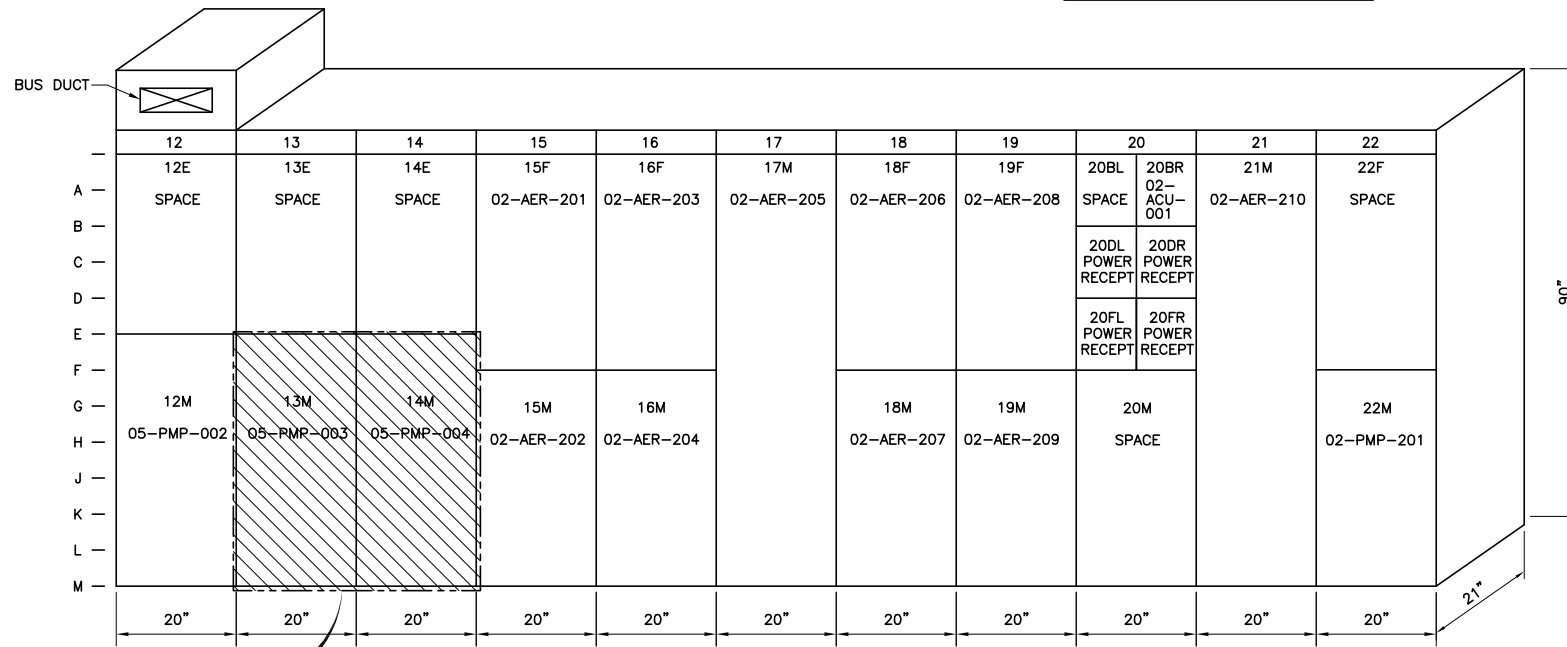


**A** 02-MCC-A FRONT ELEVATION  
- NTS

OXIDATION DITCH NO. 1  
BID ALTERNATIVE 1



**C** PLAN  
- NTS



NOT IN CONTRACT

**B** 02-MCC-A FRONT ELEVATION  
- NTS

**LEGEND:**

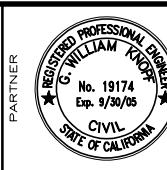
- BID ALTERNATIVE. IF OXIDATION DITCH NO. 1 IS CONSTRUCTED AS PART OF THIS PROJECT, PROVIDE NAMEPLATE AS SHOWN ON DWGS OTHERWISE PROVIDE NAMEPLATE "SPARE".
- INDICATES THAT WAS PUMP NO. 3 AND 4 ARE NOT PART OF THIS CONTRACT.

**NOTES:**

1. SEE DRAWING ES3 FOR MCC S/L DIAGRAM

**CONFORMED DOCUMENTS FOR CONSTRUCTION**

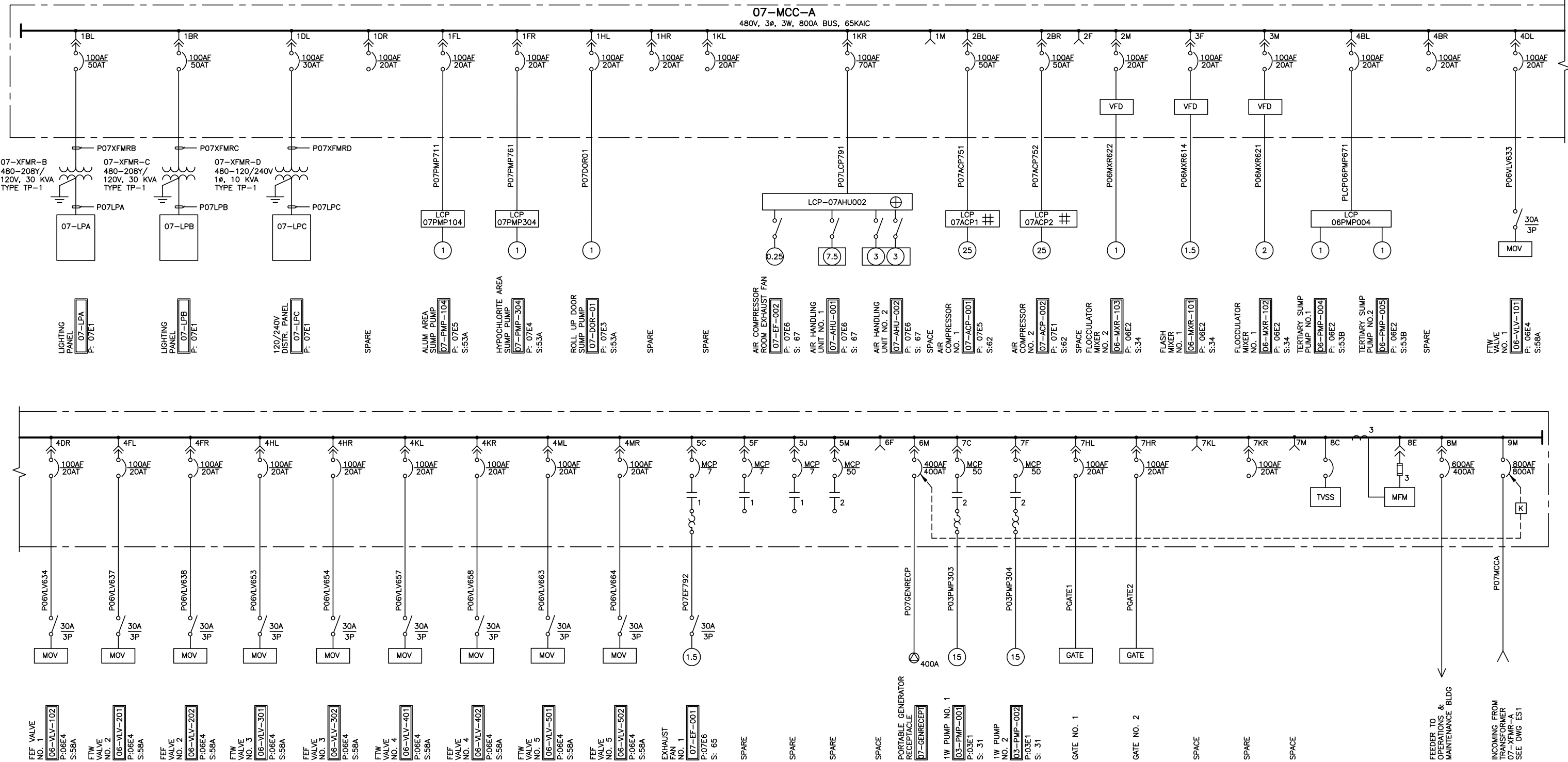
DESIGNED  
DB/SSG  
DRAWN  
AJC  
CHECKED  
LA  
DATE  
JULY, 2005



CITY OF PETALUMA  
ELLIS CREEK WATER RECYCLING FACILITY  
ELECTRICAL  
ELEVATION  
02-MCC-A

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
6069B.10  
DRAWING NO.  
**ES4**  
SHEET NO.  
503 OF 740



(A) 07-MCC-A SINGLE LINE DIAGRAM

**LEGEND:**  
 ⊕ LCP IS PART OF AIR HANDLING UNIT PACKAGE.  
 ⊞ LCP IS PART OF AIR COMPRESSOR PACKAGE.

**NOTES:**  
 1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
 "P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.  
 2. SEE DRAWING ES6 FOR MCC ELEVATION.

Last Saved By: TJS 4-15-05 01:16pm

| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |            |    |             |
|---|------------|----|-------------|
| DESIGNED                                    | DB/SSG     |    |             |
| DRAWN                                       | AJC        |    |             |
| CHECKED                                     | LA         |    |             |
| DATE  | JULY, 2005 |    |             |
| REV   | DATE       | BY | DESCRIPTION |
|   |            |    |             |

DISCIPLINE ENGINEER

**MARIO A. GAMBINO**  
 No. E13816  
 Exp. 3/31/08  
 ELECTRICAL  
 STATE OF CALIFORNIA

PROJECT ENGINEER

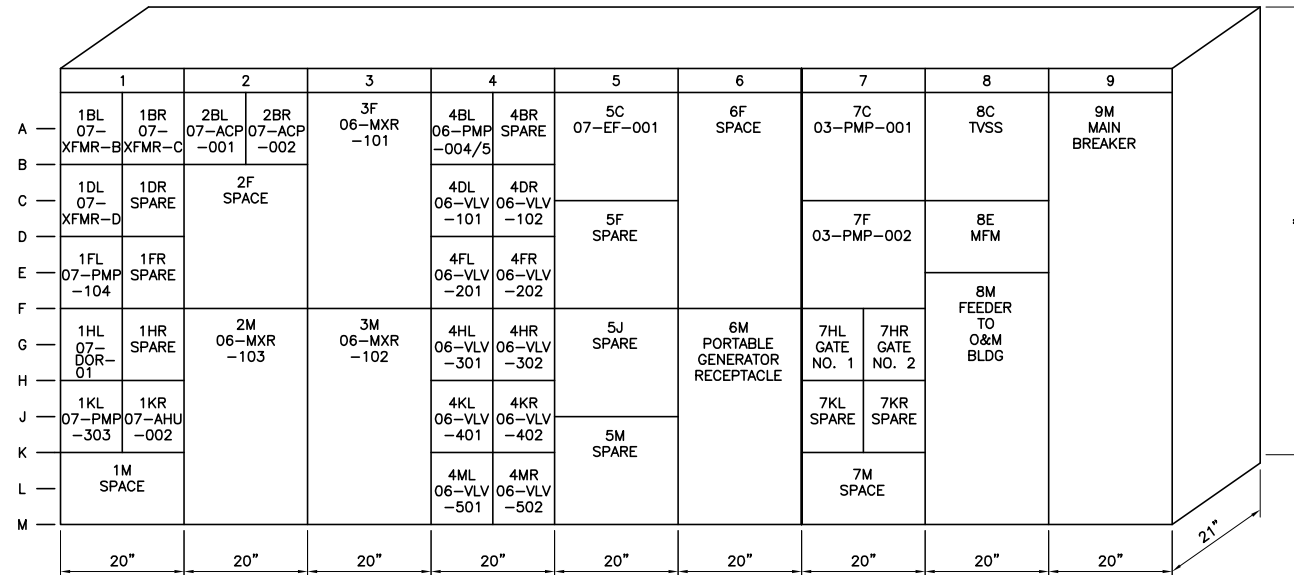
**DOUGLAS W. HUNTER**  
 No. C38950  
 Exp. 3/31/07  
 CIVIL  
 STATE OF CALIFORNIA

PARTNER

**G. WILLIAM KNORR**  
 No. 19174  
 Exp. 9/30/05  
 CIVIL  
 STATE OF CALIFORNIA



|   |  |  |                      |
|---|--|--|----------------------|
| CITY OF PETALUMA                        |  | VERIFY SCALES  | JOB NO. 6069B.10     |
| ELLIS CREEK WATER RECYCLING FACILITY    |  | BAR IS ONE INCH ON ORIGINAL DRAWING                      | DRAWING NO. ES5      |
| ELECTRICAL SINGLE LINE DIAGRAM 07-MCC-A |  | 0 1" (Scale bar)   | SHEET NO. 504 OF 740 |
|   |  | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |                      |

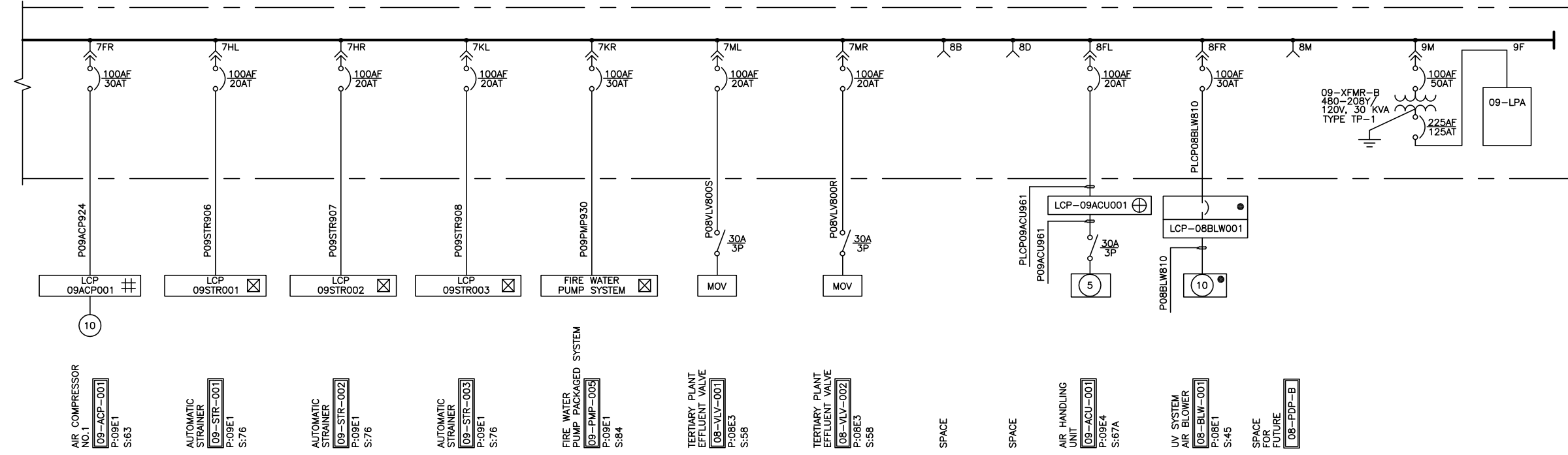
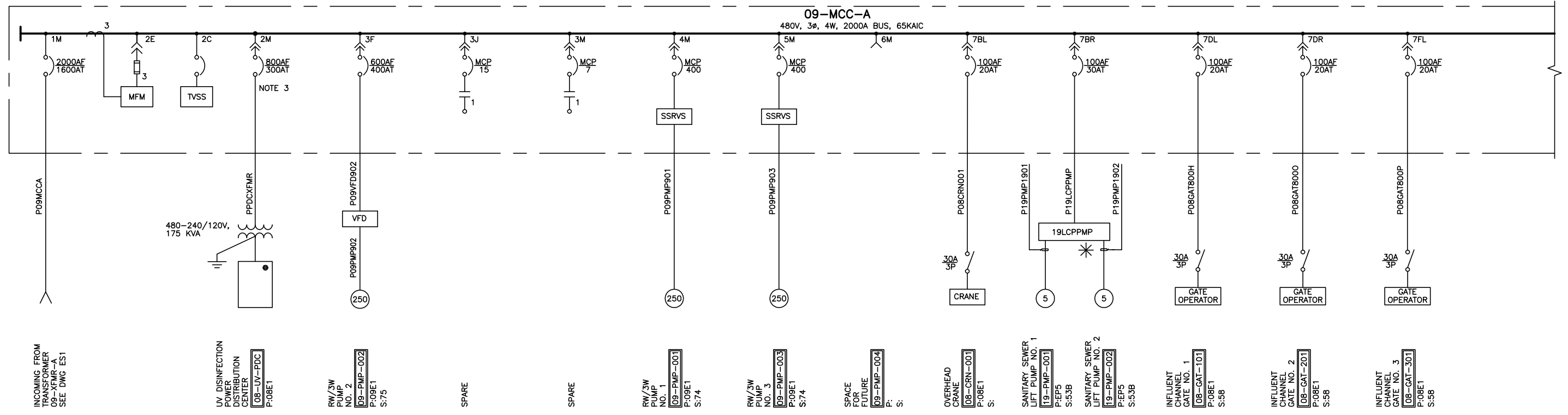


**A** 07-MCC-A FRONT ELEVATION  
- NTS

NOTES:  
1. SEE DRAWING ES5 FOR MCC S/L DIAGRAM.

Last Saved By: JAS 8-18-05 09:46am

|   |      |    |                    |  |  |  |  |  |                                     |                    |                         |
|---|------|----|--------------------|--|--|--|--|--|-------------------------------------|--------------------|-------------------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |      |    | DESIGNED<br>DB/SSG |  |  |  |  |  | CITY OF PETALUMA                    | VERIFY SCALES      | JOB NO.<br>6069B.10     |
|   |      |    | DRAWN<br>AJC       |  |  |  |  |  | CHECKED<br>LA                       | DATE<br>JULY, 2005 | DISCIPLINE ENGINEER     |
| REV   | DATE | BY | DESCRIPTION        |  |  |  |  |  | ELECTRICAL<br>ELEVATION<br>07-MCC-A | 0 1" SCALE         | SHEET NO.<br>505 OF 740 |



**LEGEND:**

- ⊕ LCP IS PART OF AIR CONDITIONING UNIT PACKAGE.
- ⊞ LCP IS PART OF AIR COMPRESSOR PACKAGE.
- ⊗ LCP IS PART OF STRAINER PACKAGE.
- \* LCP IS PART OF PUMP PACKAGE.
- PART OF UV PACKAGE.

**NOTES:**

- "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
"P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.
- SEE DRAWING ES8 FOR MCC ELEVATION.
- PROVIDE ELECTRICALLY OPERATED CIRCUIT BREAKER FOR LOAD SHEDDING.

**A 09-MCC-A SINGLE LINE DIAGRAM**  
N.T.S.

| REV | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
|     |      |    |             |

DESIGNED: DB/SSG  
DRAWN: AJC  
CHECKED: LA  
DATE: JULY, 2005

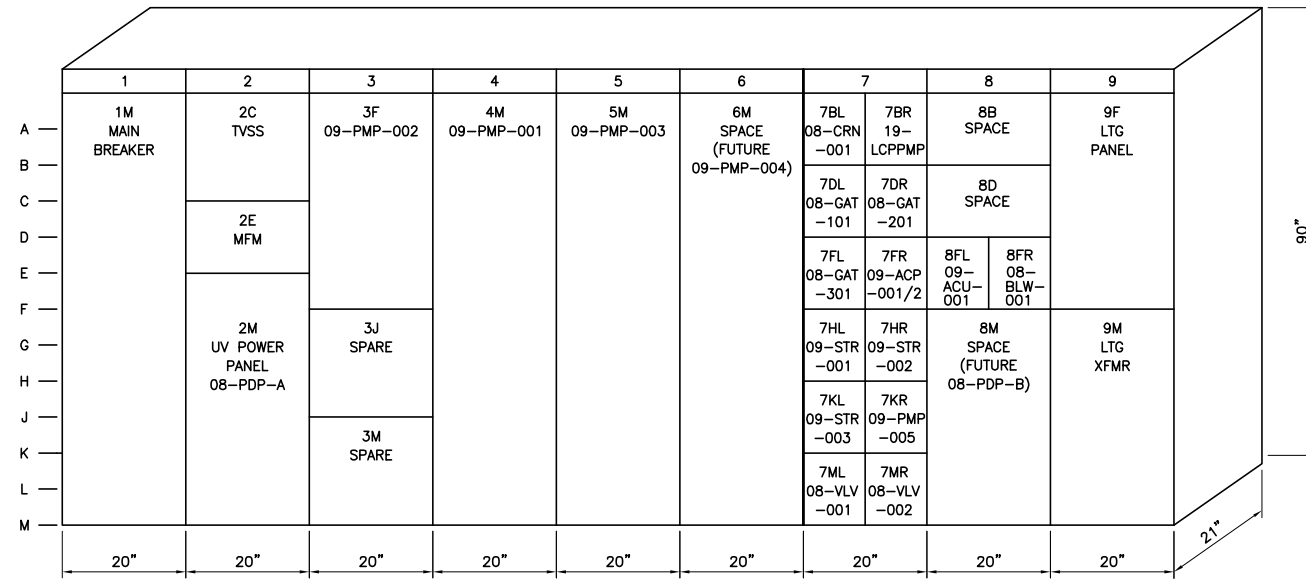
DISCIPLINE ENGINEER: **MARIO A. GAMBINO** (No. E13816, Exp. 3/31/06)  
PROJECT ENGINEER: **DOUGLAS W. MUISEY** (No. C38950, Exp. 3/31/07)  
PARTNER: **G. WILLIAM KNOX** (No. 19174, Exp. 9/30/05)

**carollo engineers**

Petaluma 1858

CITY OF PETALUMA  
ELLIS CREEK WATER RECYCLING FACILITY  
ELECTRICAL  
SINGLE LINE DIAGRAM  
09-MCC-A

|  |  |
|--|--|
| <b>VERIFY SCALES</b><br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>6069B.10<br>DRAWING NO.<br>ES7<br>SHEET NO.<br>506 OF 740 |
|--|--|



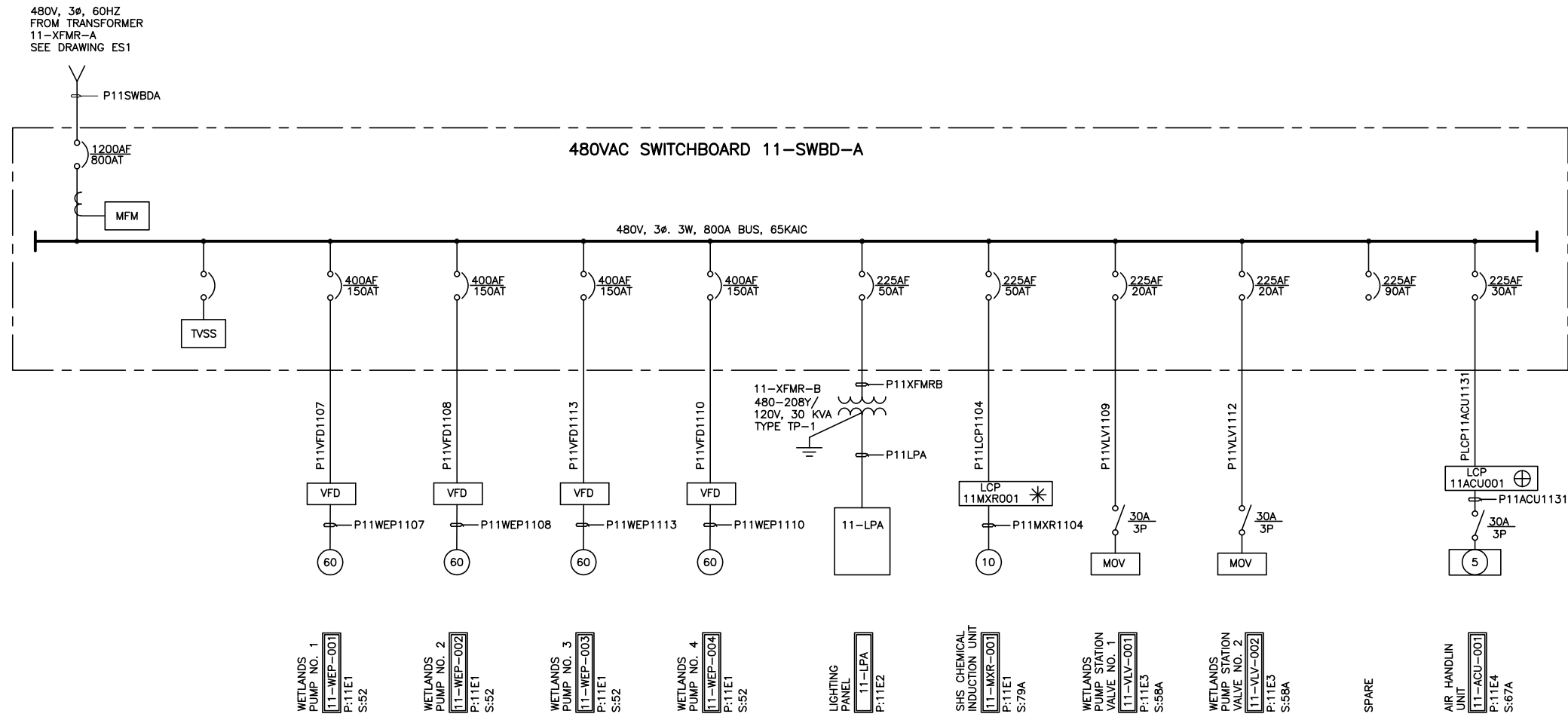
A 09-MCC-A FRONT ELEVATION  
 - NTS

NOTES:  
 1. SEE DRAWING ES7 FOR MCC S/L DIAGRAM.

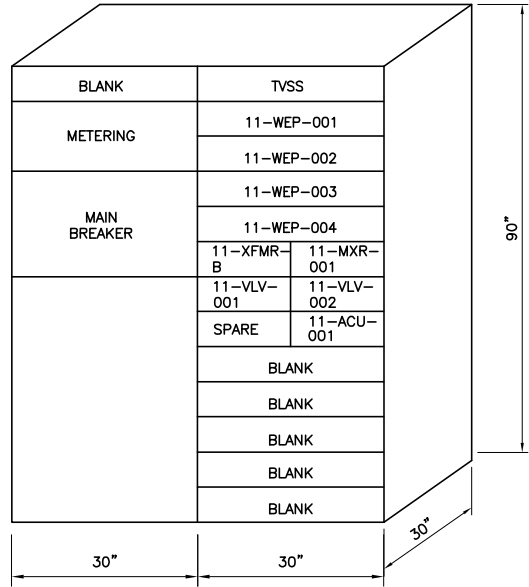
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|-----|------|----|---|--------------------|--|--|--|---|--|--|---------------------------|---------------------|
|     |      |    | <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> | DESIGNED<br>DB     |  |  |  |   |  | CITY OF PETALUMA   | <b>VERIFY SCALES</b>      | JOB NO.<br>6069B.10 |
|     |      |    |   | DRAWN<br>AJC       |  |  |  |   |  | BAR IS ONE INCH ON ORIGINAL DRAWING                      | DRAWING NO.<br><b>ES8</b> |                     |
|     |      |    |   | CHECKED<br>LA      |  |  |  |   |  | 0  1"  | SHEET NO.<br>507 OF 740   |                     |
|     |      |    |   | DATE<br>JULY, 2005 |  |  |  |   |  | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY |                           |                     |
| REV | DATE | BY | DESCRIPTION                                 |                    |  |  |  | ELLIS CREEK WATER RECYCLING FACILITY<br>ELECTRICAL<br>ELEVATION<br>09-MCC-A |  |  |                           |                     |





- WETLANDS PUMP NO. 1  
11-WEP-001  
P:11E1 S:52
- WETLANDS PUMP NO. 2  
11-WEP-002  
P:11E1 S:52
- WETLANDS PUMP NO. 3  
11-WEP-003  
P:11E1 S:52
- WETLANDS PUMP NO. 4  
11-WEP-004  
P:11E1 S:52
- LIGHTING PANEL  
11-LPA  
P:11E2
- S/S CHEMICAL INDUCTION UNIT  
11-MXR-001  
P:11E1 S:79A
- WETLANDS PUMP STATION VALVE NO. 1  
11-VLV-001  
P:11E3 S:58A
- WETLANDS PUMP STATION VALVE NO. 2  
11-VLV-002  
P:11E3 S:58A
- SPARE
- AIR HANDLIN UNIT  
11-ACU-001  
P:11E4 S:67A



**A** 11-SWBD-A SINGLE LINE DIAGRAM  
N.T.S.

**B** 11-SWBD-A FRONT ELEVATION  
N.T.S.

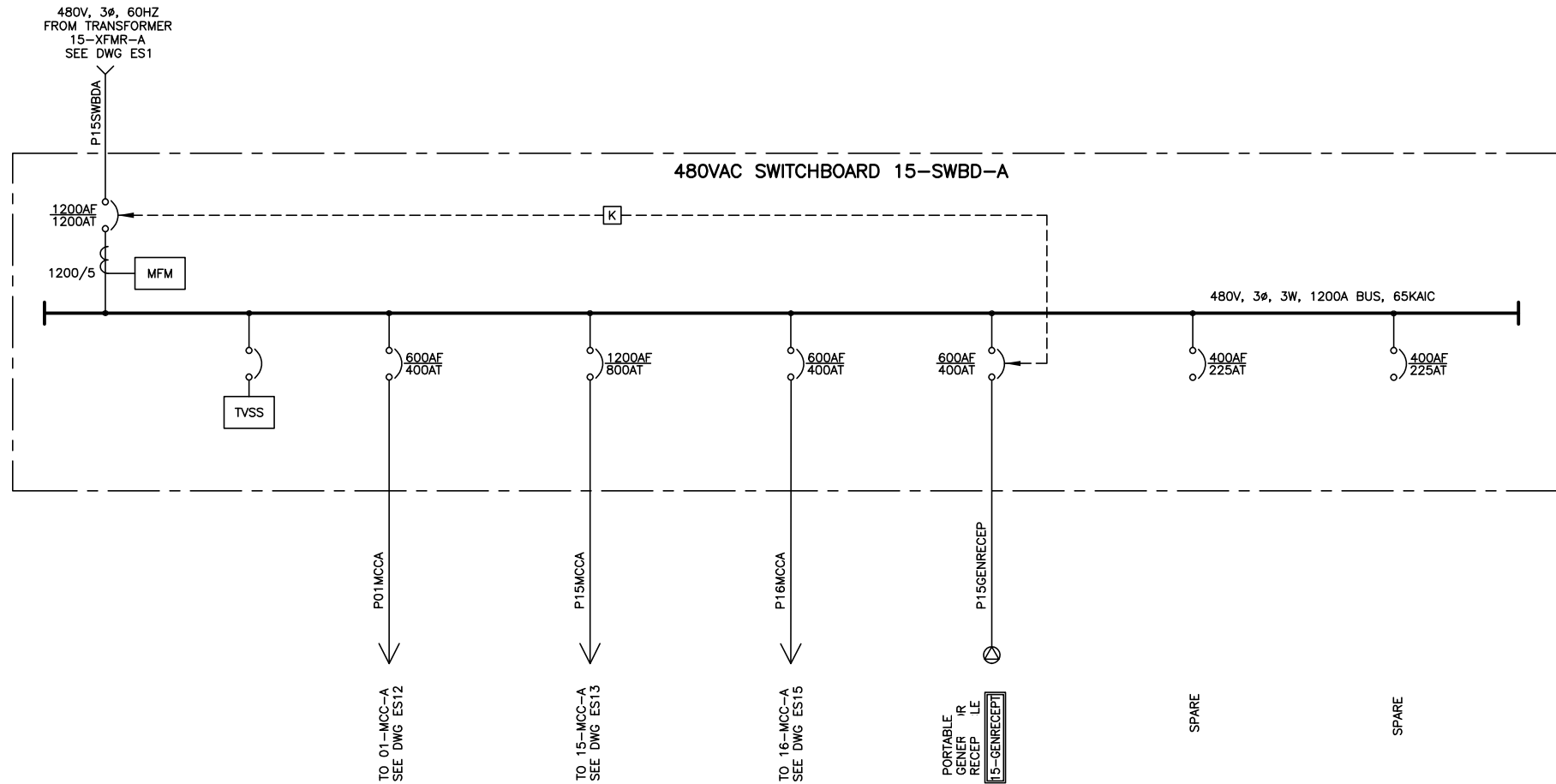
**LEGEND:**  
 ⊕ LCP IS PART OF AIR CONDITIONING UNIT PACKAGE.  
 \* LCP IS PART OF MIXER PACKAGE.

**NOTES:**  
 1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
 "P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.

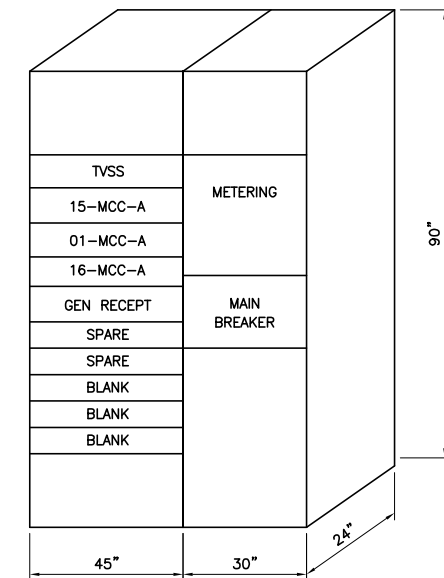
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|     |   |   |                         |                      |             |  |  |   |   |   |  |
|-----|---|---|-------------------------|----------------------|-------------|--|--|---|---|---|--|
|     | <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> | DESIGNED<br>DB/SSG<br>DRAWN<br>LRP<br>CHECKED<br>LA<br>DATE<br>JULY, 2005 | DISCIPLINE ENGINEER<br> | PROJECT ENGINEER<br> | PARTNER<br> |  |  | CITY OF PETALUMA<br>ELLIS CREEK WATER RECYCLING FACILITY<br>ELECTRICAL<br>SINGLE LINE DIAGRAM AND ELEVATION<br>480V SWITCHBOARD - 11-SWBD-A | VERIFY SCALES<br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>6069B.10<br>DRAWING NO.<br><b>ES9</b><br>SHEET NO.<br>508 OF 740 |  |
| REV | DATE  | BY  | DESCRIPTION             |                      |             |  |  |   |   |   |  |

FILENAME: H:\Client\Petaluma\_WCO\6069B10\Drawings\00E027 8-18-05 09:51am rcove XREFS: PBDR; DW; GWK; MAG Petaluma;



**A** 15-SWBD-A SINGLE LINE DIAGRAM  
N.T.S.

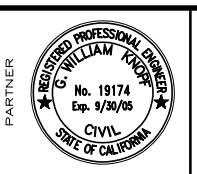
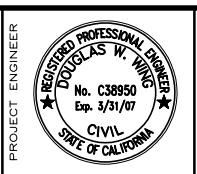
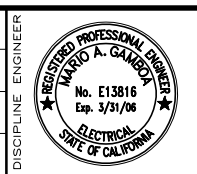


**B** 15-SWBD-A FRONT ELEVATION  
N.T.S.

Last Saved By: TJS 4-15-05 01:20pm

| REV | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
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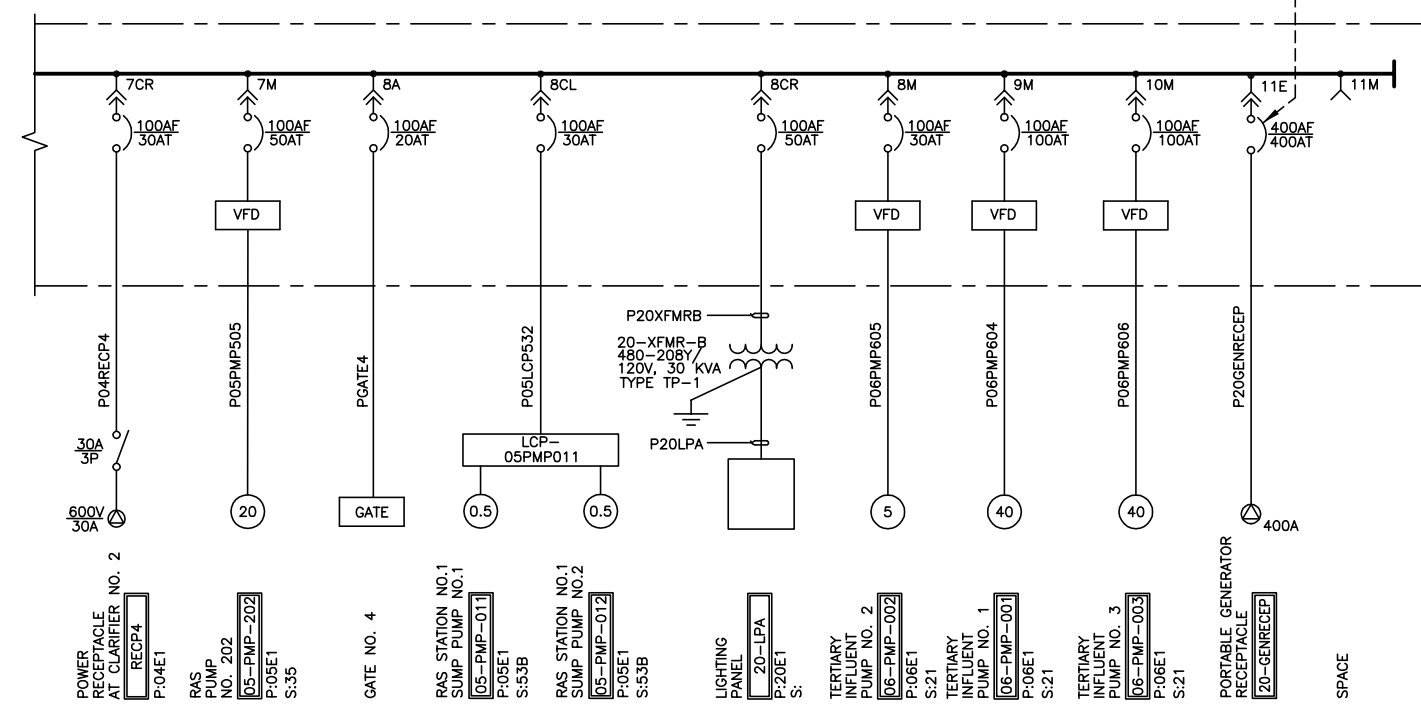
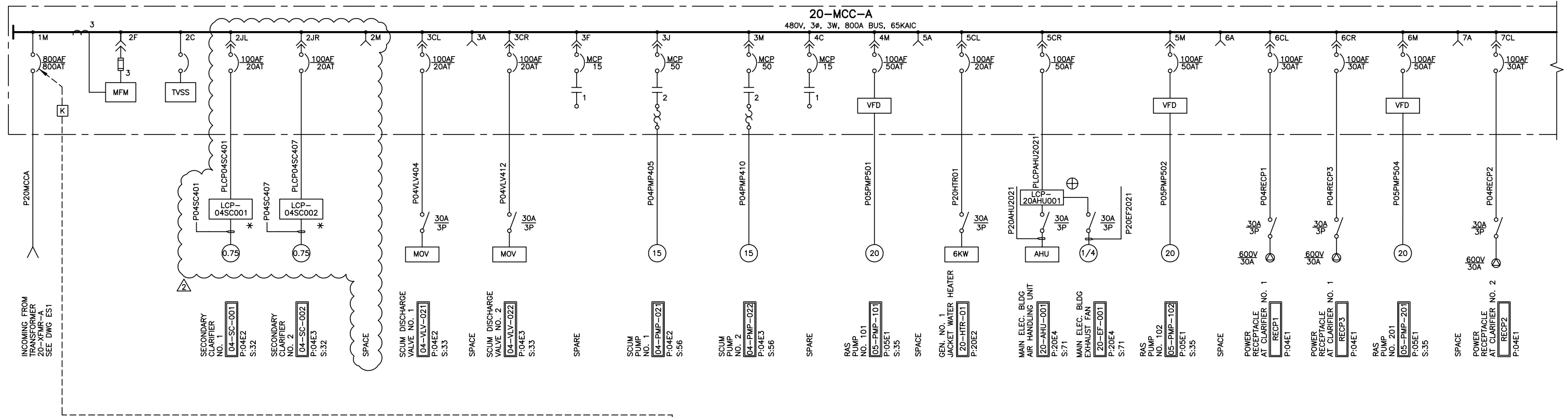
DESIGNED  
DB  
DRAWN  
AJC  
CHECKED  
LA  
DATE  
JULY, 2005



CITY OF PETALUMA  
ELLIS CREEK WATER RECYCLING FACILITY  
ELECTRICAL  
SINGLE LINE DIAGRAM AND ELEVATION  
480V SWITCHBOARD - 15-SWBD-A

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" 1"  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.  
6069B.10  
DRAWING NO.  
ES10  
SHEET NO.  
509 OF 740



**A** 20-MCC-A SINGLE LINE DIAGRAM  
NTS

**B** 20-MCC-A FRONT ELEVATION  
NTS

**LEGEND:**  
 ⊕ LCP IS PART OF AIR HANDLING UNIT PACKAGE.  
 \* PART OF SECONDARY CLARIFIER PACKAGE.  
**NOTES:**  
 1. "S." DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
 "P." DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.

Last Saved: By: jrb 9-02-05 11:45am

|   |                     |
|---|---------------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |                     |
| DESIGNED DB/SSG                             | DISCIPLINE ENGINEER |
| DRAWN AUC/BOG                               |                     |
| CHECKED LA                                  |                     |
| DATE JULY, 2005                             |                     |
| REV 5/2005                                  | PER ADDENDUM NO. 2  |
| DATE  | DESCRIPTION         |

DESIGNED BY/SSG  
 DRAWN AUC/BOG  
 CHECKED LA  
 DATE JULY, 2005

DISCIPLINE ENGINEER  
 MARIO A. GAMBINO  
 No. E13816  
 Exp. 3/31/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

PROJECT ENGINEER  
 DOUGLAS W. MUISE  
 No. C38950  
 Exp. 3/31/07  
 CIVIL  
 STATE OF CALIFORNIA

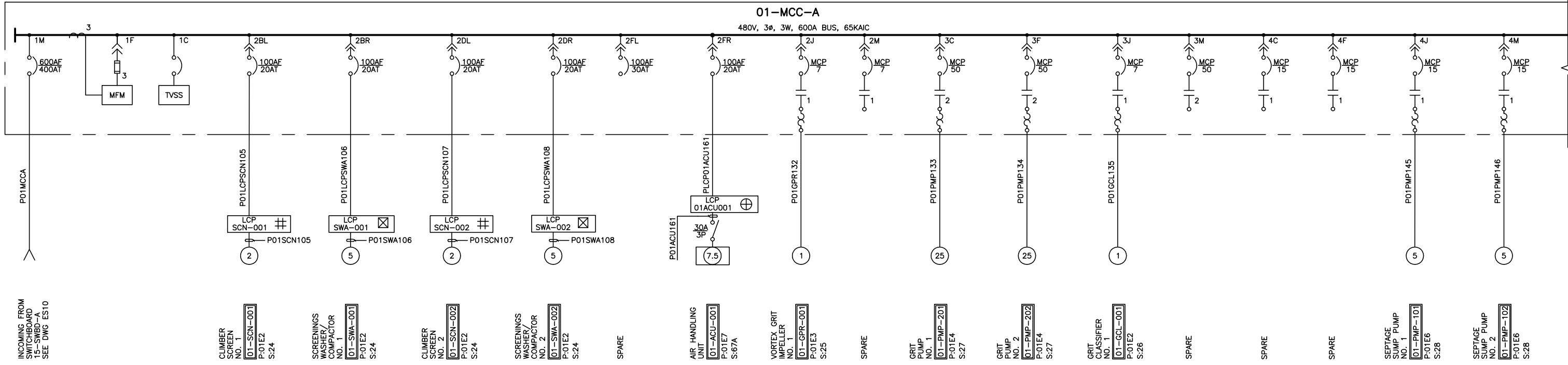
PARTNER  
 WILLIAM KNOPF  
 No. 19174  
 Exp. 9/30/05  
 CIVIL  
 STATE OF CALIFORNIA

**carollo engineers**

PETALUMA 1858

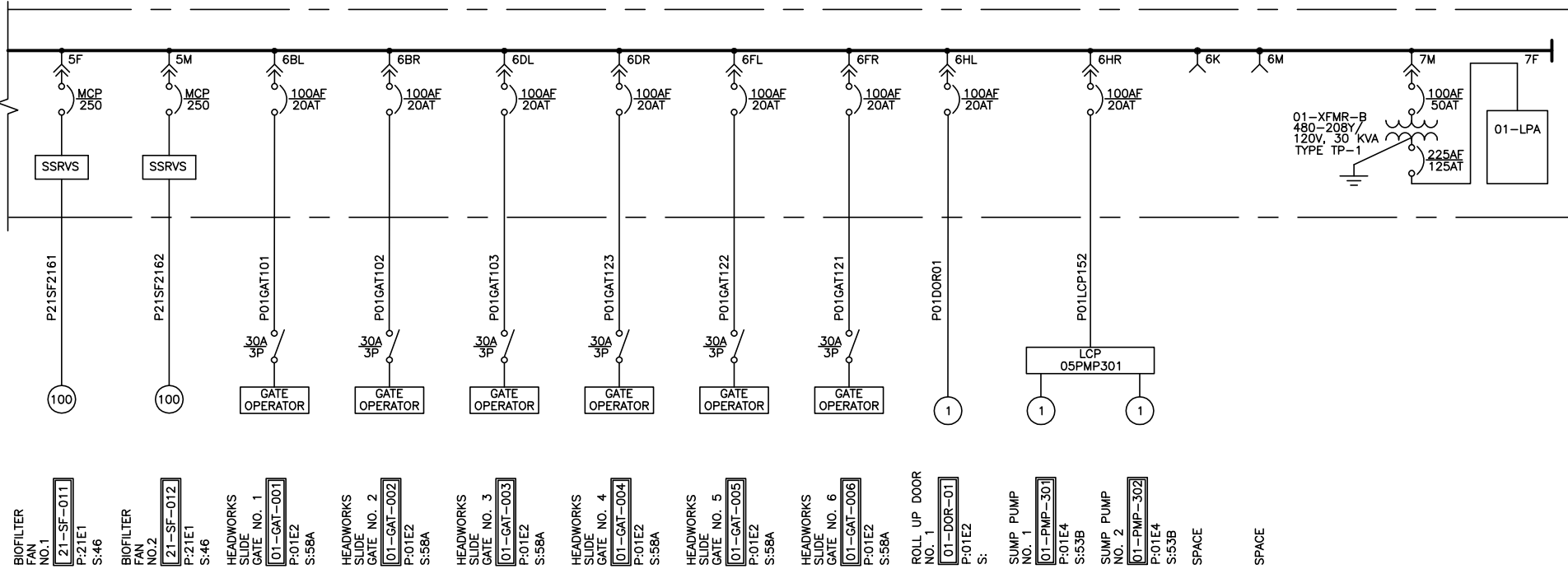
CITY OF PETALUMA  
 ELLIS CREEK WATER RECYCLING FACILITY  
 ELECTRICAL  
 SINGLE LINE DIAGRAM AND ELEVATION  
 20-MCC-A

|   |  |
|---|--|
| <b>VERIFY SCALES</b><br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1"<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO. 6069B.10<br>DRAWING NO. ES11<br>SHEET NO. 510 OF 740 |
|---|--|

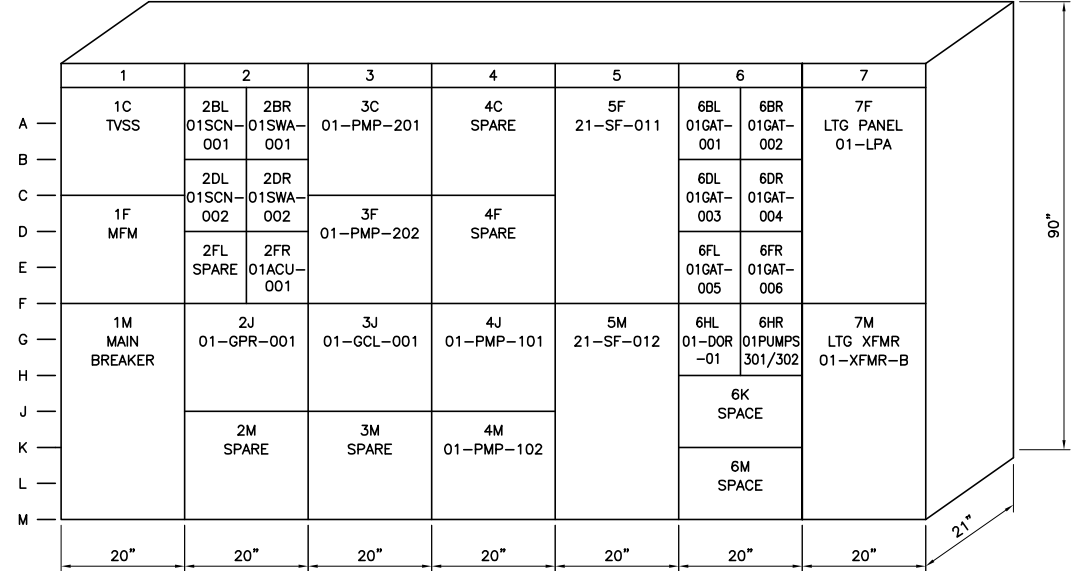


INCOMING FROM SWITCHBOARD 15-SWB-A SEE DWG ES10

CLIMBER SCREEN NO. 1 P:01E2 S:24  
 SCREENINGS WASHER/COMPACTOR NO. 1 P:01E2 S:24  
 CLIMBER SCREEN NO. 2 P:01E2 S:24  
 SCREENINGS WASHER/COMPACTOR NO. 2 P:01E2 S:24  
 SPARE  
 AIR HANDLING UNIT NO. 1 P:01E7 S:67A  
 VORTEX GRIT IMPELLER NO. 1 P:01E3 S:25  
 SPARE  
 GRIT PUMP NO. 1 P:01E4 S:27  
 GRIT PUMP NO. 2 P:01E4 S:27  
 GRIT CLASSIFIER NO. 1 P:01E2 S:26  
 SPARE  
 SPARE  
 SPARE  
 SEPTAGE SUMP PUMP NO. 1 P:01E6 S:28  
 SEPTAGE SUMP PUMP NO. 2 P:01E6 S:28



BIOFILTER FAN NO. 1 P:21E1 S:46  
 BIOFILTER FAN NO. 2 P:21E1 S:46  
 HEADWORKS SLIDE GATE NO. 1 P:01E2 S:58A  
 HEADWORKS SLIDE GATE NO. 2 P:01E2 S:58A  
 HEADWORKS SLIDE GATE NO. 3 P:01E2 S:58A  
 HEADWORKS SLIDE GATE NO. 4 P:01E2 S:58A  
 HEADWORKS SLIDE GATE NO. 5 P:01E2 S:58A  
 HEADWORKS SLIDE GATE NO. 6 P:01E2 S:58A  
 ROLL UP DOOR NO. 1 P:01E2 S:  
 SUMP PUMP NO. 1 P:01E4 S:53B  
 SUMP PUMP NO. 2 P:01E4 S:53B  
 SPACE  
 SPACE



**A** 01-MCC-A SINGLE LINE DIAGRAM  
 SCALE: N.T.S.  
 FILE: -

**B** 01-MCC-A FRONT ELEVATION  
 SCALE: N.T.S.  
 FILE: -

- LEGEND:
- ⊞ LCP IS PART OF SCREEN PACKAGE.
  - ⊞ LCP IS PART OF COMPACTOR PACKAGE.
  - ⊞ LCP IS PART OF AIR HANDLING UNIT PACKAGE.

- NOTES:
1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.
  - "P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.

Last Saved By: TJS 4-15-05 01:21pm

|   |            |    |             |
|---|------------|----|-------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |            |    |             |
| DESIGNED                                    | DB/SSG     |    |             |
| DRAWN                                       | AJC/BOG    |    |             |
| CHECKED                                     | LA         |    |             |
| DATE  | JULY, 2005 |    |             |
| REV   | DATE       | BY | DESCRIPTION |

DISCIPLINE ENGINEER  
 REGISTERED PROFESSIONAL ENGINEER  
 MARIO A. GAMBINO  
 No. E13816  
 Exp. 3/31/06  
 ELECTRICAL  
 STATE OF CALIFORNIA

PROJECT ENGINEER  
 REGISTERED PROFESSIONAL ENGINEER  
 DOUGLAS W. MUISE  
 No. C38950  
 Exp. 3/31/07  
 CIVIL  
 STATE OF CALIFORNIA

PARTNER  
 REGISTERED PROFESSIONAL ENGINEER  
 G. WILLIAM KNORR  
 No. 19174  
 Exp. 9/30/05  
 CIVIL  
 STATE OF CALIFORNIA

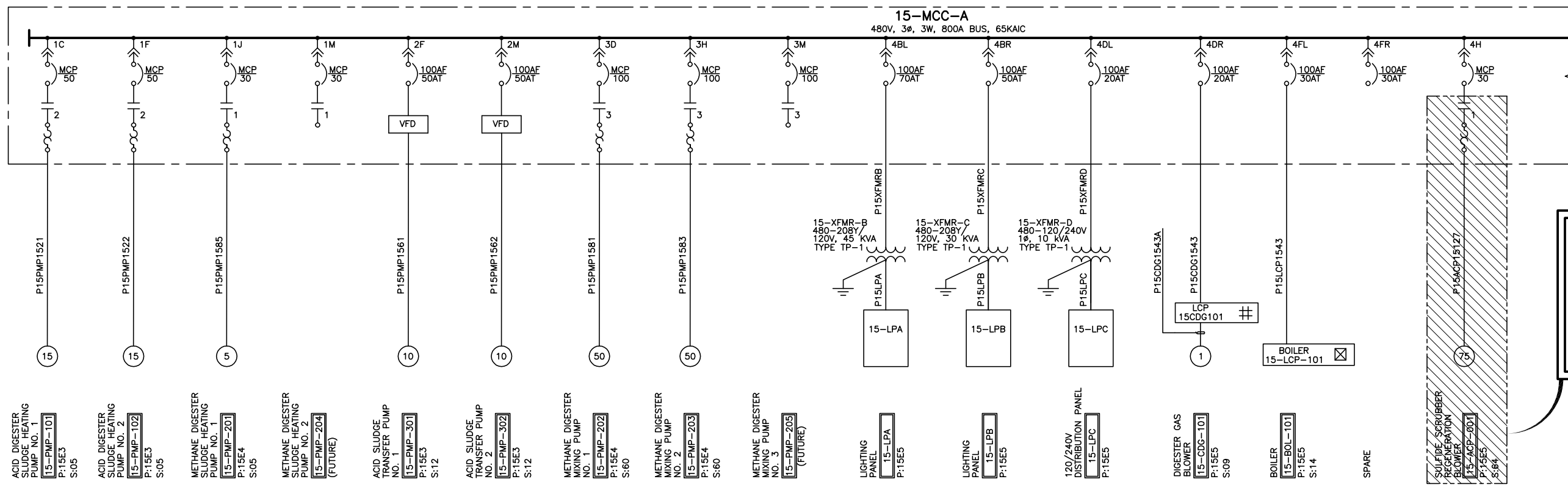
**carollo engineers**

PETALUMA 1858

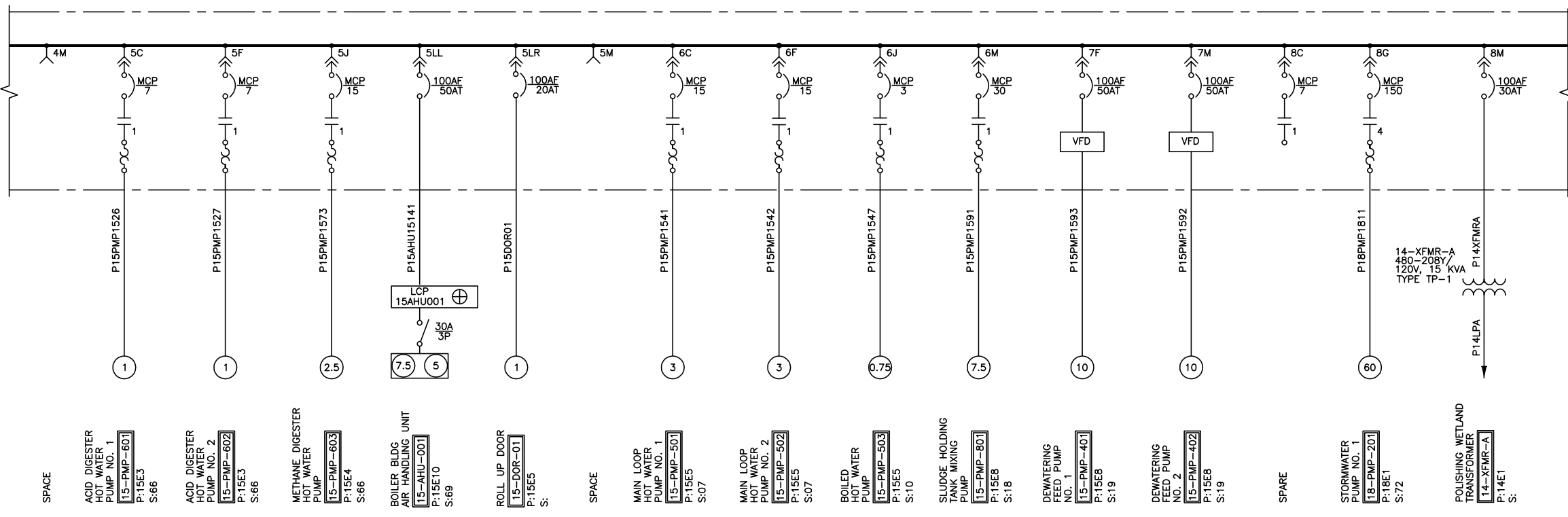
CITY OF PETALUMA  
 ELLIS CREEK WATER RECYCLING FACILITY  
 ELECTRICAL  
 SINGLE LINE DIAGRAM AND ELEVATION  
 01-MCC-A

VERIFY SCALES  
 BAR IS ONE INCH ON ORIGINAL DRAWING  
 0 1" 1"  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 6069B.10  
 DRAWING NO. ES12  
 SHEET NO. 511 OF 740



NOT IN CONTRACT



CONTINUED ON  
DWG ES14

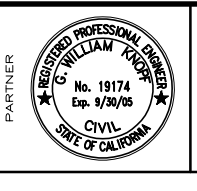
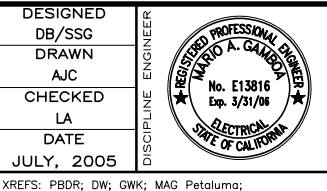
- LEGEND:**
- INDICATES THAT SULFIDE SCRUBBER IS NOT PART OF THIS CONTRACT.
  - LCP IS PART OF CENTRIFUGAL BLOWER PACKAGE.
  - LCP IS PART OF BOILER PACKAGE.
  - LCP IS PART OF AIR HANDLING UNIT PACKAGE.

- NOTES:**
1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
"P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.
  2. SEE DRAWING GS-E14 FOR CONTINUATION AND MCC ELEVATION.

A 15-MCC-A SINGLE LINE DIAGRAM  
N.T.S.

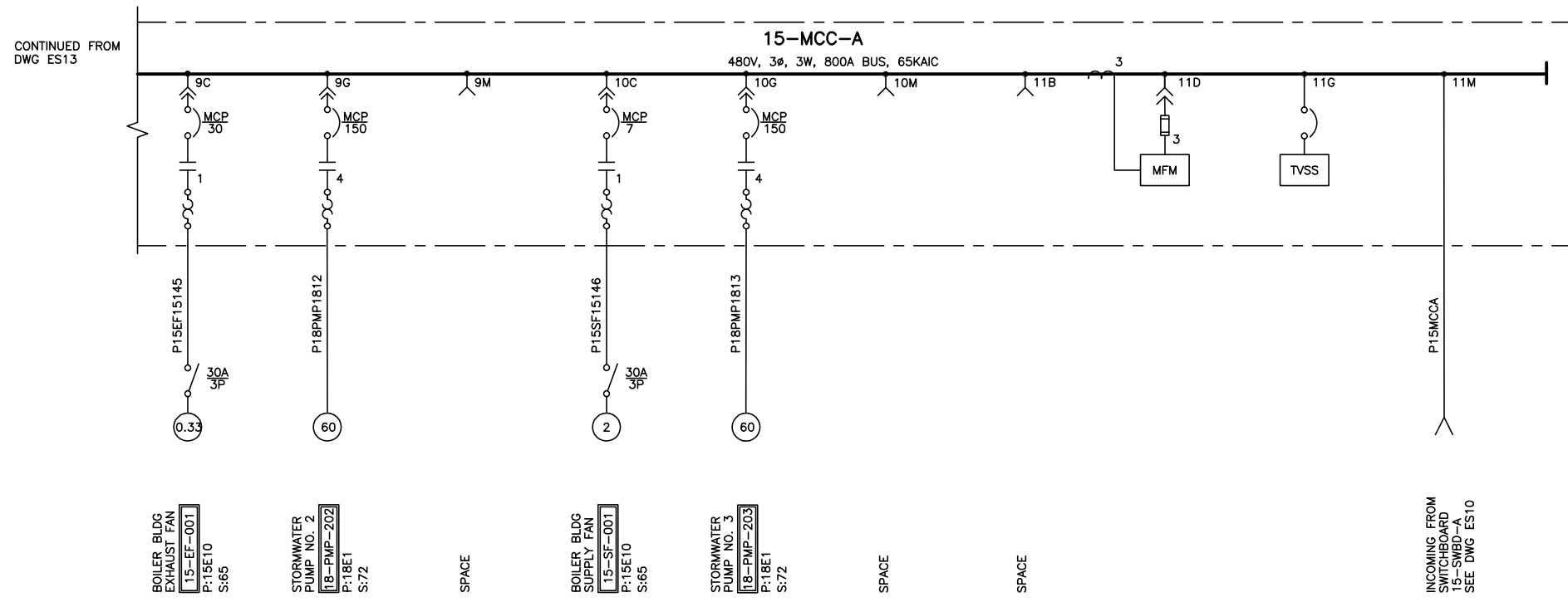
Last Saved By: TJS 4-15-05 01:22pm

|   |                     |               |
|---|---------------------|---------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> |                     |               |
| DESIGNED<br>DB/SSG                          | DRAWN<br>AJC        | CHECKED<br>LA |
| DATE<br>JULY, 2005                          | DISCIPLINE ENGINEER |               |

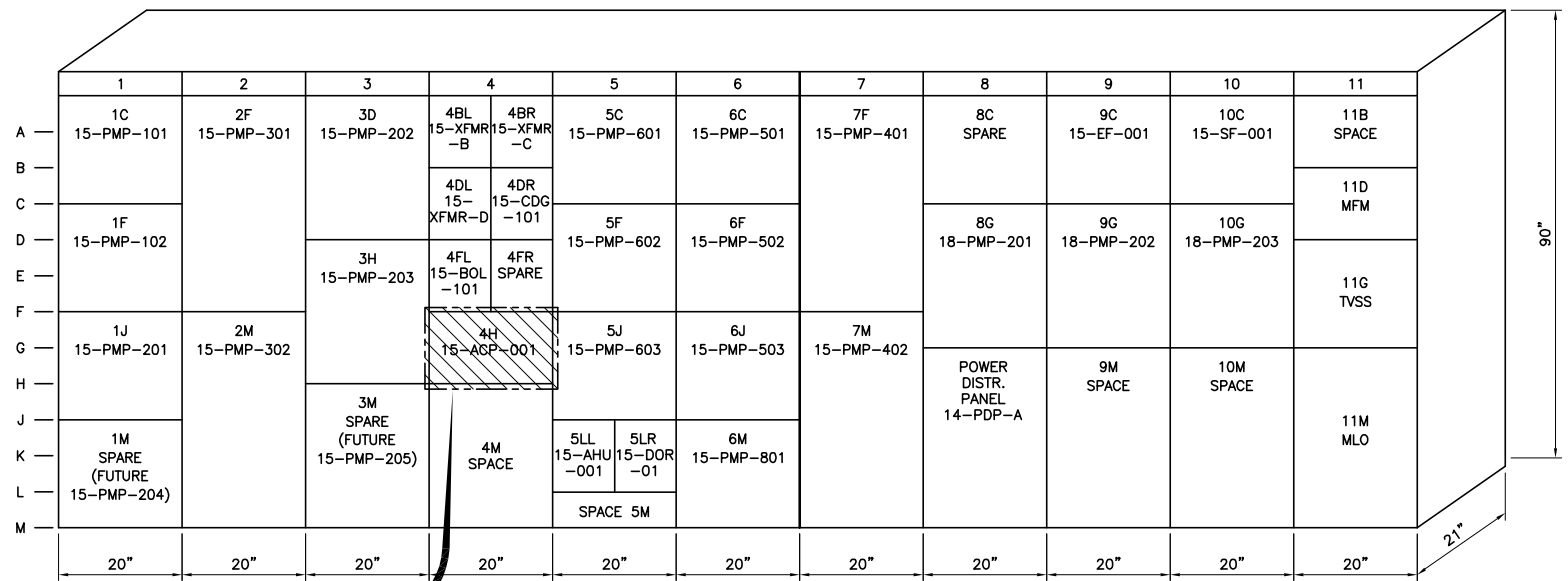


|   |
|---|
| CITY OF PETALUMA<br>ELLIS CREEK WATER RECYCLING FACILITY<br>ELECTRICAL<br>SINGLE LINE DIAGRAM<br>15-MCC-A |
|---|

|   |  |
|---|--|
| <b>VERIFY SCALES</b><br>BAR IS ONE INCH ON ORIGINAL DRAWING<br>0 1" SCALE<br>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | JOB NO.<br>6069B.10<br>DRAWING NO.<br><b>ES13</b><br>SHEET NO.<br>512 OF 740 |
|---|--|



**A** 15-MCC-A SINGLE LINE DIAGRAM  
N.T.S.



**B** 15-MCC-A FRONT ELEVATION  
N.T.S.

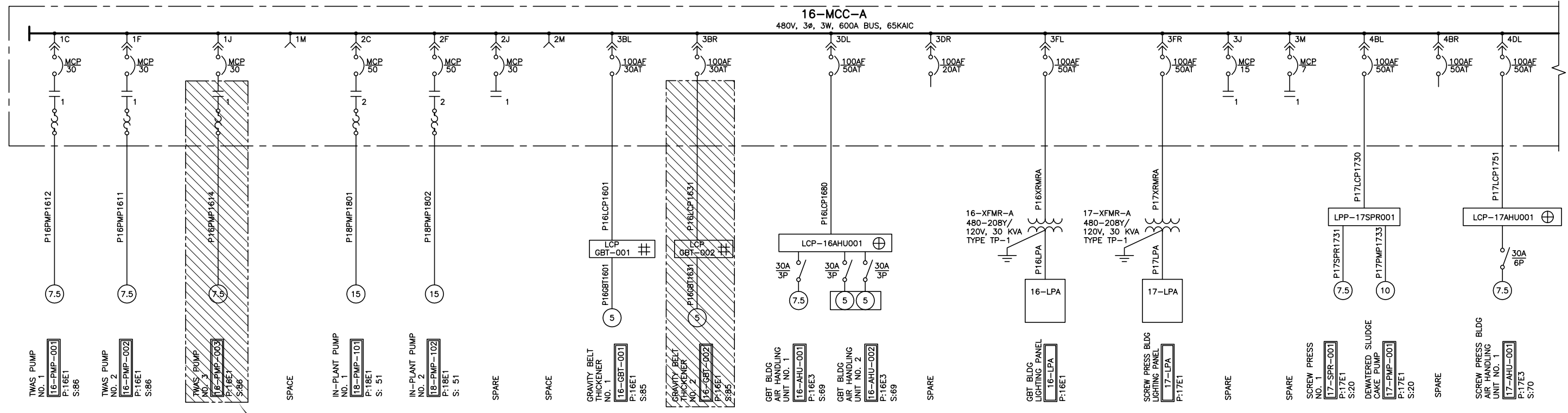
NOT IN CONTRACT

**LEGEND:**  
 INDICATES THAT SULFIDE SCRUBBER IS NOT PART OF THIS CONTRACT. LABEL THE MCC BUCKET AS SPARE.

**NOTES:**  
 1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
 "P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.

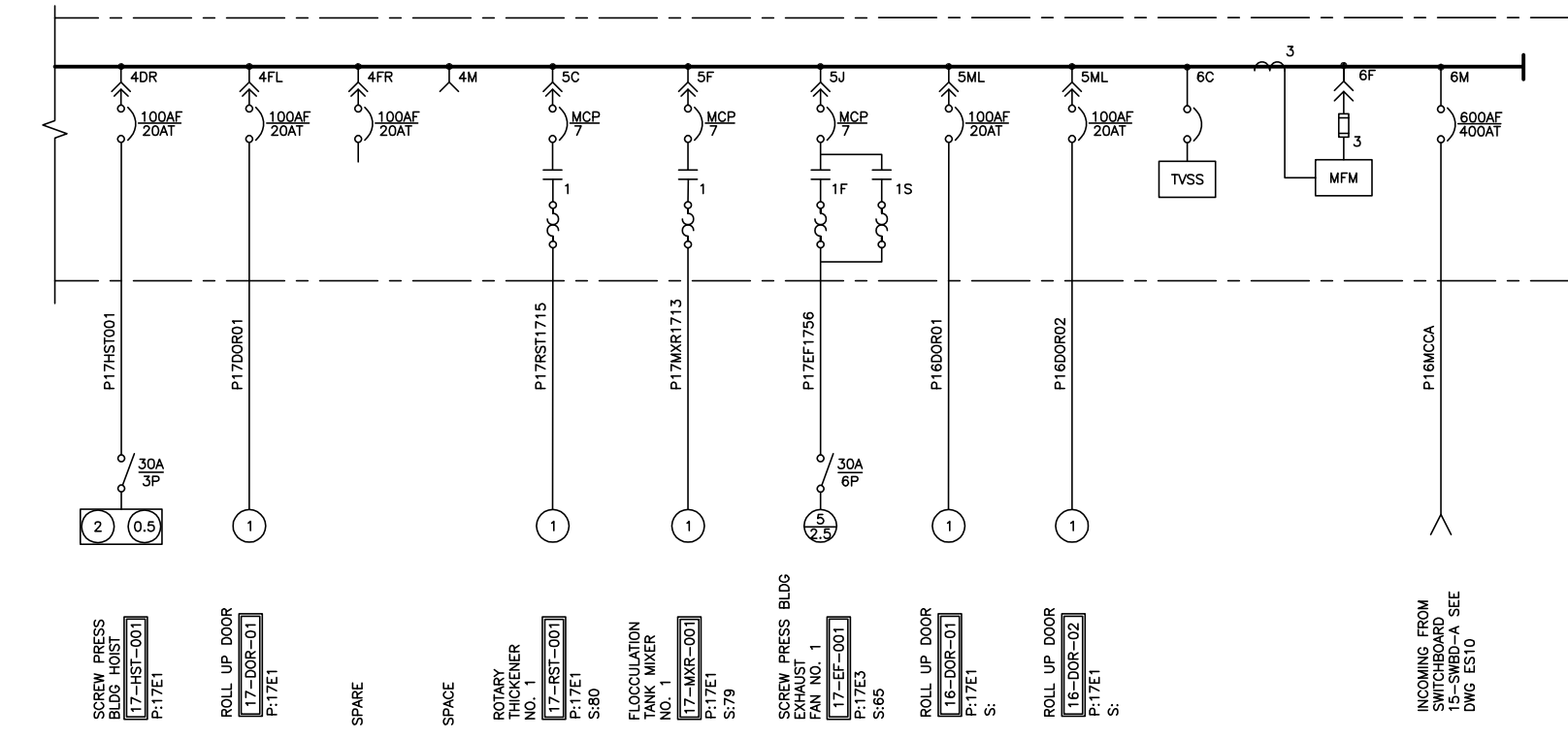
Last Saved By: TMS 4-15-05 01:23pm

|   |                    |   |                      |  |  |  |  |  |                     |
|---|--------------------|---|----------------------|--|--|--|--|--|---------------------|
| <b>CONFORMED DOCUMENTS FOR CONSTRUCTION</b> | DESIGNED<br>DB/SSG |   | PROJECT ENGINEER<br> | PARTNER<br>  |  |  | CITY OF PETALUMA   | VERIFY SCALES<br>BAR IS ONE INCH ON ORIGINAL DRAWING | JOB NO.<br>6069B.10 |
|   | DRAWN<br>AJC       |   |                      |  |  |  | ELLIS CREEK WATER RECYCLING FACILITY                     | 0 1" SCALE   | DRAWING NO.<br>ES14 |
| CHECKED<br>LA                               | DATE<br>JULY, 2005 | ELECTRICAL<br>SINGLE LINE DIAGRAM AND ELEVATION<br>15-MCC-A |                      |  |  |  | IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY | SHEET NO.<br>513 OF 740                              |                     |
| REV   | DATE               | BY  | DESCRIPTION          | FILENAME: H:\Client\Petaluma_WCO\6069B10\Drawings\00E032 8-18-05 10:11am rcove XREFS: PBDR; MAG; DW; GWK Petaluma; |  |  |  |  |                     |



**A** 16-MCC-A SINGLE LINE DIAGRAM  
N.T.S.

NOT IN CONTRACT  
(TYP.)



|   |                  |                  |                  |                  |                        |                    |
|---|------------------|------------------|------------------|------------------|------------------------|--------------------|
|   | 1                | 2                | 3                | 4                | 5                      | 6                  |
| A | 1C<br>16-PMP-001 | 2C<br>18-PMP-101 | 3BL<br>GBT-001   | 3BR<br>GBT-002   | 4BL<br>17-LPP-001      | 4BR<br>SPARE       |
| B |                  |                  | 3DL<br>GBT AHU   | 3DR<br>SPARE     | 4DL<br>SCREW PRESS AHU | 4DR<br>17-HST-001  |
| C | 1F<br>16-PMP-002 | 2F<br>18-PMP-102 | 3FL<br>16-XFMR-A | 3FR<br>17-XFMR-A | 4FL<br>17-DOR-01       | 4FR<br>SPACE       |
| D |                  |                  |                  |                  | 5F<br>17-MXR-001       | 6F<br>MFM          |
| E |                  |                  |                  |                  |                        |                    |
| F | 1J<br>16-PMP-003 | 2J<br>SPARE      | 3J<br>SPARE      | 4M<br>SPACE      | 5K<br>17-EF-001        | 6M<br>MAIN BREAKER |
| G |                  |                  |                  |                  |                        |                    |
| H |                  |                  |                  |                  |                        |                    |
| J |                  |                  |                  |                  |                        |                    |
| K | 1M<br>SPACE      | 2M<br>SPACE      | 3M<br>SPARE      |                  | 5ML<br>16-DOR-01       | 5MR<br>16-DOR-02   |
| L |                  |                  |                  |                  |                        |                    |
| M |                  |                  |                  |                  |                        |                    |
|   | 20"              | 20"              | 20"              | 20"              | 20"                    | 20"                |

**B** 16-MCC-A FRONT ELEVATION  
N.T.S.

**LEGEND:**

INDICATES THAT WAS PUMP NO. 3 AND GRAVITY BELT THICKENER IS NOT PART OF THIS CONTRACT. LABEL MCC'S BUCKETS AS "SPARE".

LCP IS PART OF AIR HANDLING UNIT PACKAGE.

LCP IS PART OF GBT PACKAGE.

**NOTES:**

1. "S:" DESIGNATES THE SCHEMATIC DIAGRAM NUMBER.  
"P:" DESIGNATES THE PLAN DRAWING WHERE THE EQUIPMENT IS LOCATED.

Plot Saved By: JAS 4-21-05 10:57am

**CONFORMED DOCUMENTS FOR CONSTRUCTION**

| REV | DATE | BY | DESCRIPTION |
|-----|------|----|-------------|
|     |      |    |             |

DESIGNED DB DRAWN LRP CHECKED LA DATE JULY, 2005

DISCIPLINE ENGINEER: **MARIO A. GAMBINO** No. E13816 Exp. 3/31/06

PROJECT ENGINEER: **DOUGLAS W. WING** No. C38950 Exp. 3/31/07

PARTNER: **G. WILLIAM KNORR** No. 19174 Exp. 9/30/05

**carollo engineers**

**PETALUMA 1858**

CITY OF PETALUMA  
ELLIS CREEK WATER RECYCLING FACILITY  
ELECTRICAL  
SINGLE LINE DIAGRAM AND ELEVATION  
16-MCC-A

**VERIFY SCALES**  
BAR IS ONE INCH ON ORIGINAL DRAWING  
0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 6069B.10  
DRAWING NO. ES15  
SHEET NO. 514 OF 740