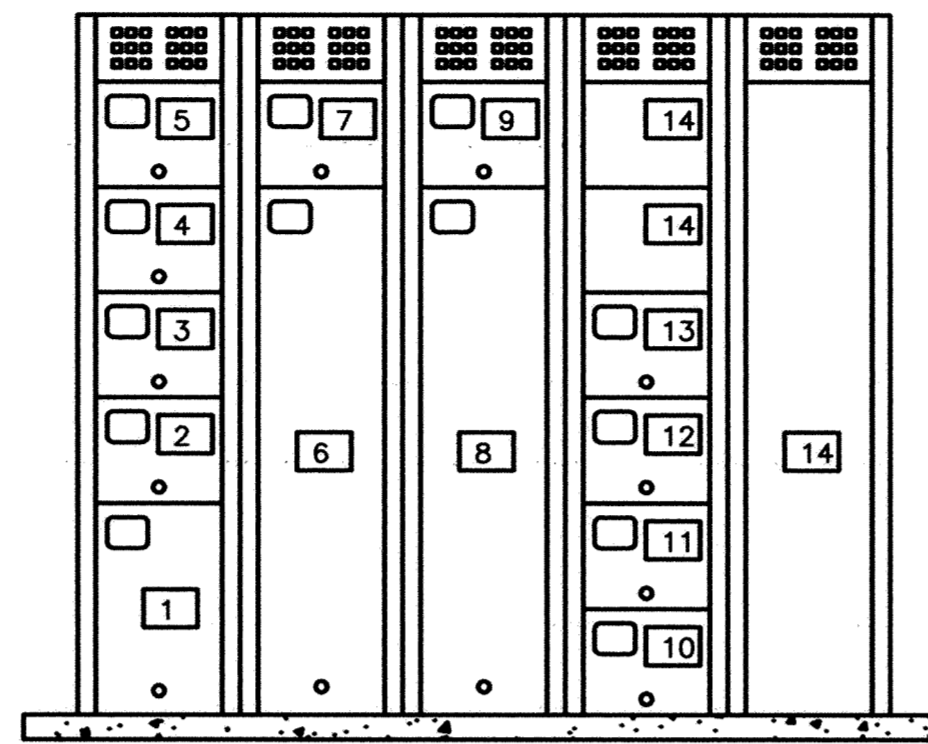


- MOTOR CONTROL CENTER KEY NOTES**
- 1: START-STOP PUSHBUTTONS ON DOOR.
  - 2: REMOTE-OFF-LOCAL SELECTOR SWITCH ON DOOR.
  - 3: ON-OFF SELECTOR SWITCH ON DOOR.
  - 4: GREEN PILOT LIGHT ON DOOR.
  - 5: RED PILOT LIGHT ON DOOR.
  - 6: CONTROL CIRCUIT TRANSFORMER WITH 120V SECONDARY AND FUSES.
  - 7: REVERSING STARTER.
  - 8: RUN-TIME METER ON DOOR.
  - 9: FORWARD-OFF-REVERSE SELECTOR SWITCH ON DOOR.
  - 10: VARIABLE FREQUENCY DRIVE.
  - 11: SOFT-START STARTER.

MOTOR CONTROL CENTER SCHEDULE							
UNIT NO.	LOAD	CKT BRKR AMPS	NEMA SIZE	KEY NOTES	HORSE POWER	VOLTS PHASE	NOTES
1	MAIN BREAKER	200A.	-	-	-	480-3	
2	BOILER SUPPLY FAN	15A./MCP	1	4,6	1/2	480-3	NOTE #1
3	WATER CIRCULATING PUMP	15A./MCP	1	4,6	1/3	480-3	NOTE #1
4	DIGESTER SLUDGE PUMP	15A./MCP	1	3,4,6	5	480-3	NOTE #1
5	RAW SLUDGE PUMP	15A./MCP	1	3,4,6	5	480-3	NOTE #2
6	SLUDGE MIXER PUMP #1	70A.	VFD	3,4,6,8,10	5	480-3	NOTE #1
7	SLUDGE HEAT RECIRCULATING PUMP #1	15A./MCP	1	4,6	5	480-3	NOTE #1
8	SLUDGE MIXER PUMP #2	70A.	VFD	3,4,6,8,10	25	480-3	NOTE #2
9	SLUDGE HEAT RECIRCULATING PUMP #2	15A./MCP	1	4,6	25	480-3	NOTE #2
10	TRANSFORMER T1	20A.	-	-	10KVA	480-3	NOTE #2
11	MAKE UP AIR UNIT #3	15A.	-	-	3/4	480-3	NOTE #1
12	MAKE UP AIR UNIT #4	15A.	-	-	3/4	480-3	NOTE #1
13	EXHAUST FAN #4	15A.	-	-	1/3	480-3	NOTE #1
14	SPACE AND BUSS	-	-	-	-	480-3	

- NOTES:**
- EXISTING MOTOR. REMOVE FEEDER FROM PREVIOUS MOTOR CONTROL CENTER AND EXTEND FEEDER TO NEW MOTOR CONTROL CENTER LOCATION. PROVIDE JUNCTION BOX AND SPLICE NEW CONDUCTORS TO EXISTING. FIELD VERIFY THE EXACT LOCATION PRIOR TO INSTALLATION. PROVIDE EXPLOSION PROOF JUNCTION BOX AND CONDUIT SEAL-OFFS IN CLASSIFIED AREAS.
  - NEW MOTOR. EXTEND CONDUIT AND WIRE FROM MOTOR CONTROL CENTER TO MOTOR AS SPECIFIED.

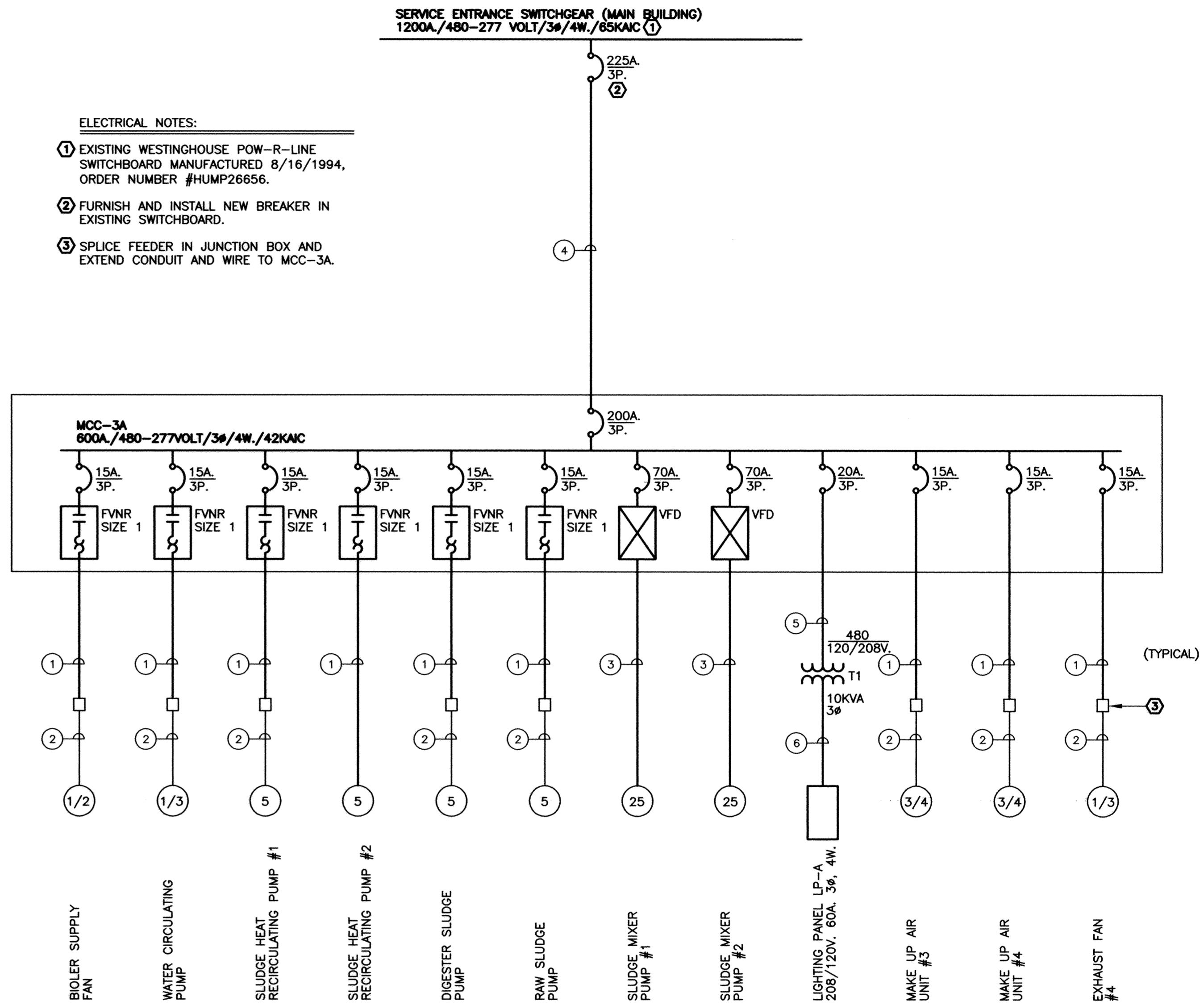


**1 MCC-3A ELEVATION**  
SCALE: NO SCALE

FEEDER SCHEDULE				
ITEM	CONDUIT SIZE	CONDUCTOR SIZE	SETS	NOTES
①	3/4" C.	3 #12 1 #12 GND.	1	
②	-	-	-	NOTE 1
③	1" C.	3 #6 1 #8 GND.	1	NOTE 2
④	3" C.	4 #4/0 1 #4 GND.	1	
⑤	3/4" C.	3 #12 1 #12 GND.	1	
⑥	3/4" C.	4 #10 1 #10 GND.	1	

**NOTE:**

- EXISTING CONDUIT AND WIRE TO REMAIN.
- VFD CABLE.



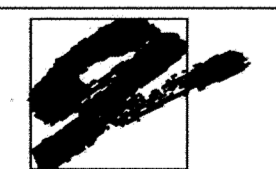
**1 ONE LINE DIAGRAM**  
SCALE: NO SCALE

TRANSFORMER SCHEDULE							
PLAN MARK	KVA	PHASE	PRIMARY VOLTS	SECONDARY VOLTS	TAPS	MOUNTING	REMARKS
T1	10	3	480	120/208	2%	TRAPEZE	DRY TYPE


**RECORD DRAWING**

THIS DRAWING HAS BEEN REVISED TO REPRESENT THE RECORDS OF CONSTRUCTION AS BASED UPON BEST RECORDED INFORMATION AT THE TIME OF COMPLETION OF WORK SET FORTH ON THE DRAWING.

HOWARD R. GREEN COMPANY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS.

 DATE: MAY 2005

Howard R. Green Company

DESIGNED BY: RJT/WLM DRAWN BY: WLM APPROVED BY: RJT JOB NUMBER: 822550J CAD DATE: August 30, 2005 8:39:10 a.m. CAD FILE: 822550J\As-Built\Draws\E-E-4.DWG (DHORNER)	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. SIGNATURE: _____ DATE: _____ PRINTED NAME: ROBERT J. THAYER LIC. NO. 16272	NO. DATE BY REVISION DESCRIPTION 1 05/24/05 DRH RECORD DRAWINGS	 Howard R. Green Company	WWTP PRIMARY DIGESTER IMPROVEMENTS CITY OF ELK RIVER ELK RIVER, MINNESOTA 2004	ELECTRICAL ONE-LINE DIAGRAM AND MCC-3A ELEVATION	SHEET NO. <b>E-4</b>
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