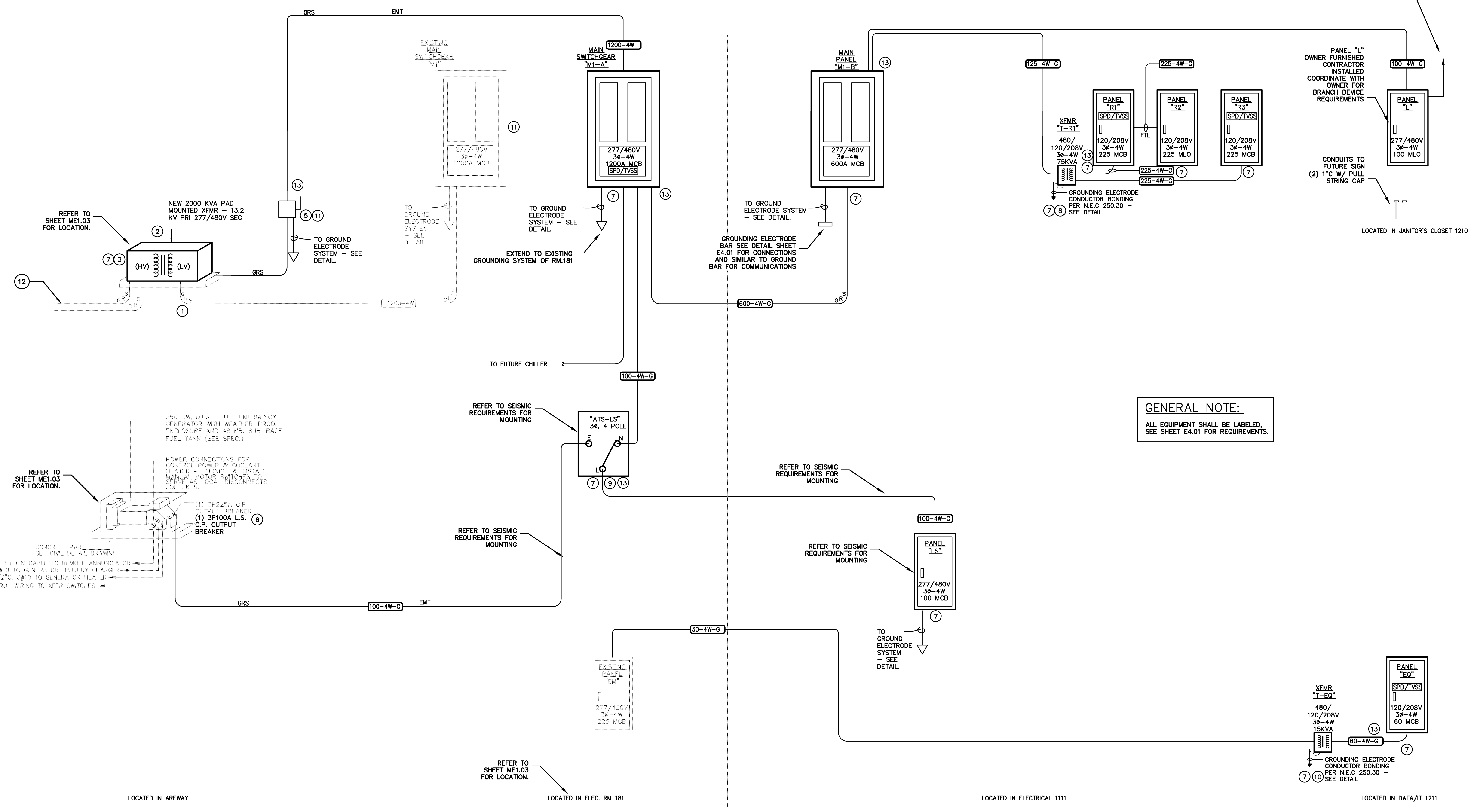


ELECTRICAL FEEDER SCHEDULE								
FEEDER CODE	CONDUIT/WIRE DESCRIPTION	TEMP. RATING	FEEDER CODE	CONDUIT/WIRE DESCRIPTION	TEMP. RATING	FEEDER CODE	CONDUIT/WIRE DESCRIPTION	TEMP. RATING
120-2W-G	1/2" C-3#12	90°C	200-3W	2-1/2" C-3#5/0	75°C	600-4W-G	(2) SETS EA OF 4" C-4#600MCM	75°C
120-3W-G	1/2" C-4#12		200-4W	2-1/2" C-4#5/0		600-3W-G	(2) SETS EA OF 4" C-3#600MCM, #1/0 GND	
120-2W-G	1/2" C-3#10		200-3W-G	2-1/2" C-3#5/0, #6 GND		600-4W-G	(2) SETS EA OF 4" C-4#600MCM, #1/0 GND	
120-3W-G	1/2" C-4#10		200-4W-G	2-1/2" C-4#5/0, #6 GND		1000-4W-G	(3) SETS EA OF 3" C-4#350MCM	
120-4W-G	1/2" C-4#10, #10 GND		225-3W	2-1/2" C-3#4/0		1000-3W-G	(3) SETS EA OF 3" C-4#350MCM, #2/0 GND	
120-3W-G	1/2" C-3#8, #10 GND		225-4W	2-1/2" C-4#4/0		1000-4W-G	(3) SETS EA OF 3" C-4#350MCM, #2/0 GND	
120-4W-G	3/4" C-4#8, #10 GND		225-3W-G	2-1/2" C-3#4/0, #4 GND		1200-4W	(3) SETS EA OF 4" C-4#600MCM	
120-4W-G	3/4" C-4#8, #10 GND		225-4W-G	2-1/2" C-4#4/0, #4 GND		1200-3W-G	(3) SETS EA OF 4" C-4#600MCM, #3/0 GND	
120-2W-G	3/4" C-2#8, #10 GND		250-4W	3" C-4#250MCM		1200-4W-G	(3) SETS EA OF 4" C-4#600MCM, #3/0 GND	
120-3W-G	3/4" C-3#8, #10 GND		250-3W-G	3" C-3#250MCM, #4 GND		1600-4W-G	(4) SETS EA OF 4" C-4#600MCM	
120-4W-G	1" C-4#8, #8 GND		250-4W-G	3" C-4#250MCM, #4 GND		1600-3W-G	(4) SETS EA OF 4" C-3#600MCM, #4/0 GND	
120-3W-G	1" C-3#8, #8 GND		300-3W-G	3" C-3#300MCM, #4 GND		1600-4W-G	(4) SETS EA OF 4" C-4#600MCM, #4/0 GND	
120-4W-G	1" C-4#8, #8 GND		300-4W-G	3" C-4#300MCM, #4 GND		2000-4W	(5) SETS EA OF 4" C-4#600MCM	
120-2W-G	1" C-2#8, #8 GND		400-3W	4" C-3#600MCM		2000-3W-G	(5) SETS EA OF 4" C-3#600MCM, #250 MCM GND	
120-3W-G	1" C-3#8, #8 GND		400-4W-G	4" C-4#600MCM		2000-4W-G	(5) SETS EA OF 4" C-4#600MCM, #250 MCM GND	
120-4W-G	1" C-4#8, #8 GND		400-3W	4" C-3#600MCM, #3 GND		2500-4W	(7) SETS EA OF 4" C-4#600MCM	
120-3W-G	1-1/4" C-3#3, #6 GND		400-4W-G	4" C-4#600MCM, #3 GND		2500-3W-G	(7) SETS EA OF 4" C-3#600MCM, #350 MCM GND	
120-4W-G	1-1/4" C-4#3, #6 GND		600-3W-G	(2) SETS EA OF 3" C-3#250MCM, #2 GND		2500-4W-G	(7) SETS EA OF 4" C-4#600MCM, #350 MCM GND	
120-3W-G	1-1/2" C-3#1, #6 GND		600-4W-G	(2) SETS EA OF 3" C-4#250MCM		3000-4W	(8) SETS EA OF 4" C-4#600MCM	
120-4W-G	1-1/2" C-4#1, #6 GND		600-3W-G	(2) SETS EA OF 3" C-4#250MCM, #2 GND		3000-3W-G	(8) SETS EA OF 4" C-3#600MCM, #400 MCM GND	
125-3W-G	1-1/2" C-3#1, #6 GND	75°C	600-4W-G	(2) SETS EA OF 3-1/2" C-4#350MCM, #1 GND		3000-4W-G	(8) SETS EA OF 4" C-4#600MCM, #400 MCM GND	
125-4W-G	1-1/2" C-4#1, #6 GND		600-3W-G	(2) SETS EA OF 3-1/2" C-4#350MCM		4000-4W	(10) SETS EA OF 4" C-4#600MCM	
150-3W-G	1-1/2" C-3#1/0, #6 GND		700-4W	(2) SETS EA OF 4" C-4#600MCM		4000-3W-G	(10) SETS EA OF 4" C-3#600MCM, #500 MCM GND	
150-4W-G	1-1/2" C-4#1/0, #6 GND		700-3W-G	(2) SETS EA OF 4" C-3#600MCM, #1 GND		4000-4W-G	(10) SETS EA OF 4" C-4#600MCM, #500 MCM GND	
175-3W-G	2" C-3#2/0, #6 GND		700-4W-G	(2) SETS EA OF 4" C-4#600MCM, #1 GND				
175-4W-G	2" C-4#2/0, #6 GND							

\* EQUIPMENT PROVISIONS FOR ELECTRICAL CONNECTIONS - TEMPERATURE LIMITATIONS SHALL COMPLY WITH NEC ARTICLE 110.14 FOR CIRCUITS RATED 100A OR LESS. WIRE SIZES ARE BASED ON TYPE #14TH COPPER CONDUCTORS, WITH NOT MORE THAN THREE CURRENT CARRYING CONDUCTORS IN RACEWAY - DERATE PER TABLE 310.15 AS APPLICABLE.

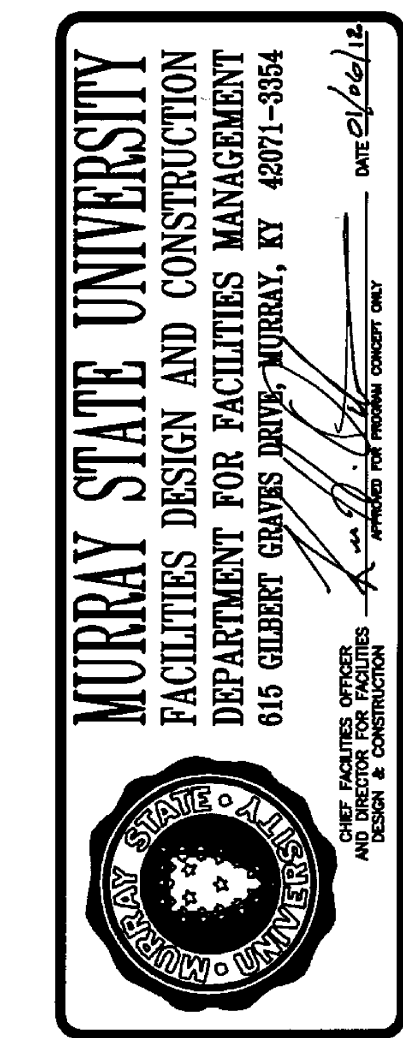
ELECTRICAL CONSTRUCTION NOTES	
THIS DRAWING ONLY	
1	CONTRACTOR SHALL DISCONNECT EXISTING 1000 KVA TRANSFORMER AND REMOVE AND RECONNECT EXISTING MAIN SWITCHGEAR M1.
2	CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING 1000 KVA PAD MOUNT TRANSFORMER AND RELINQUISH TO THE OWNER.
3	CONTRACTOR SHALL FURNISH NEW TRANSFORMER WITH DUAL TAPS AND LOCATE ON EXISTING PAD.
4	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT NEW DISCONNECT SWITCH, CONDUIT AND WIRE TO RE-FEED EXISTING MAIN SWITCHGEAR M1.
5	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT NEW SERVICE RATED DISCONNECT SWITCH, NEMA 3S ENCLOSURE, CONDUIT AND WIRE TO FEED NEW SWITCHGEAR M1A.
6	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT A NEW 3-POLE 100A CIRCUIT BREAKER AT EXISTING 250KW DIESEL FIRED GENERATOR.
7	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ITEMS AS INDICATED.
8	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT NEW TRANSFORMER WITH DUAL TAPS.
9	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT A 4-POLE AUTOMATIC TRANSFER SWITCH PER SPECIFICATIONS.
10	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT A K-13 RATED TRANSFORMER PER SPECIFICATIONS. LOCATE ABOVE CEILING.
11	FURNISH LABEL AS REQUIRED BY N.E.C. AND A.H.J. TO INDICATED "SERVICE DISCONNECT" NUMBER AND LOCATION OF ALL SERVICE DISCONNECTS.
12	CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT A K-13 RATED TRANSFORMER PER SPECIFICATIONS. LOCATE ABOVE CEILING.
13	BEFORE TERMINATION OF CIRCUITS CONTRACTOR SHALL TEST FOR IDENTIFY AND CORRECT GROUND FAULT CONDITIONS OF ALL CIRCUIT CONDUCTOR, INCLUDING NEUTRALS. OWNER SHALL BE NOTIFIED OF TEST AND BE ALLOWED TO WITNESS TEST.



GENERAL NOTE:  
ALL EQUIPMENT SHALL BE LABELED, SEE SHEET E4.01 FOR REQUIREMENTS.

FEEDER DIAGRAM  
NO SCALE

**Hastings+Chivetta**  
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STRUCTURAL BACOM & ASSOCIATES, INC., 1000 W. BROADWAY, SUITE 200, MURRAY, ILLINOIS 62869  
IPE: MARCUM ENGINEERING, L.L.C., 500 SOUTH 17TH STREET, PADUCAH, KENTUCKY, 42028



SPORTS PRACTICE FACILITY  
MURRAY STATE UNIVERSITY  
MURRAY, KENTUCKY  
BID SET - 2012-01-04



REVISIONS

Date	Description
2012-01-04	
2983.00	H+C Project No -
10-007	FDC Project No -
11194	BFW Project No -
11557	Marcum Project No -

Sheet Name -  
ELECTRICAL RISER DIAGRAM

E3.01