PANELBOARD NOTES ( )

(1) TERMINATE GROUND ON ISOLATED GROUND BUS.

(2) INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE). LOCKING DEVICE SHALL BE UL LISTED.

(3) INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).

(4) GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).

(5) GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).

(6) CONDUCTOR SIZE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.

(7) ROUTE CIRCUIT THROUGH CONTACTOR

(8) PROVIDE INTERLOCK WIRING WITH EXHAUST HOOD ANSUL SYSTEM.

(9) PROVIDE LISTED HANDLE-TIE BETWEEN CIRCUIT BREAKERS SHARING COMMON NEUTRAL FOR SIMULTANEOUS TRIP.

(10) REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.

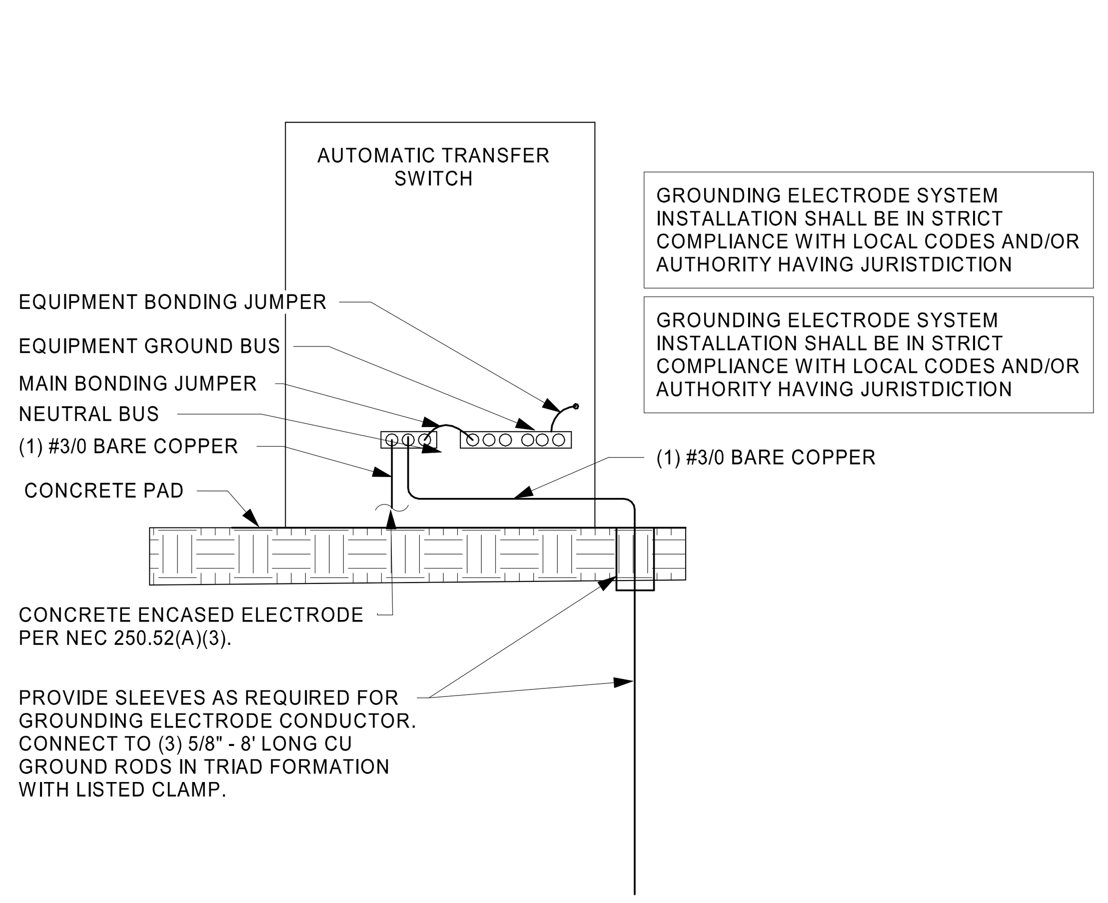
(11) FACTORY INSTALLED BREAKER AND WIRE, INSTALLATIONS BY E.C.

GENERAL NOTES

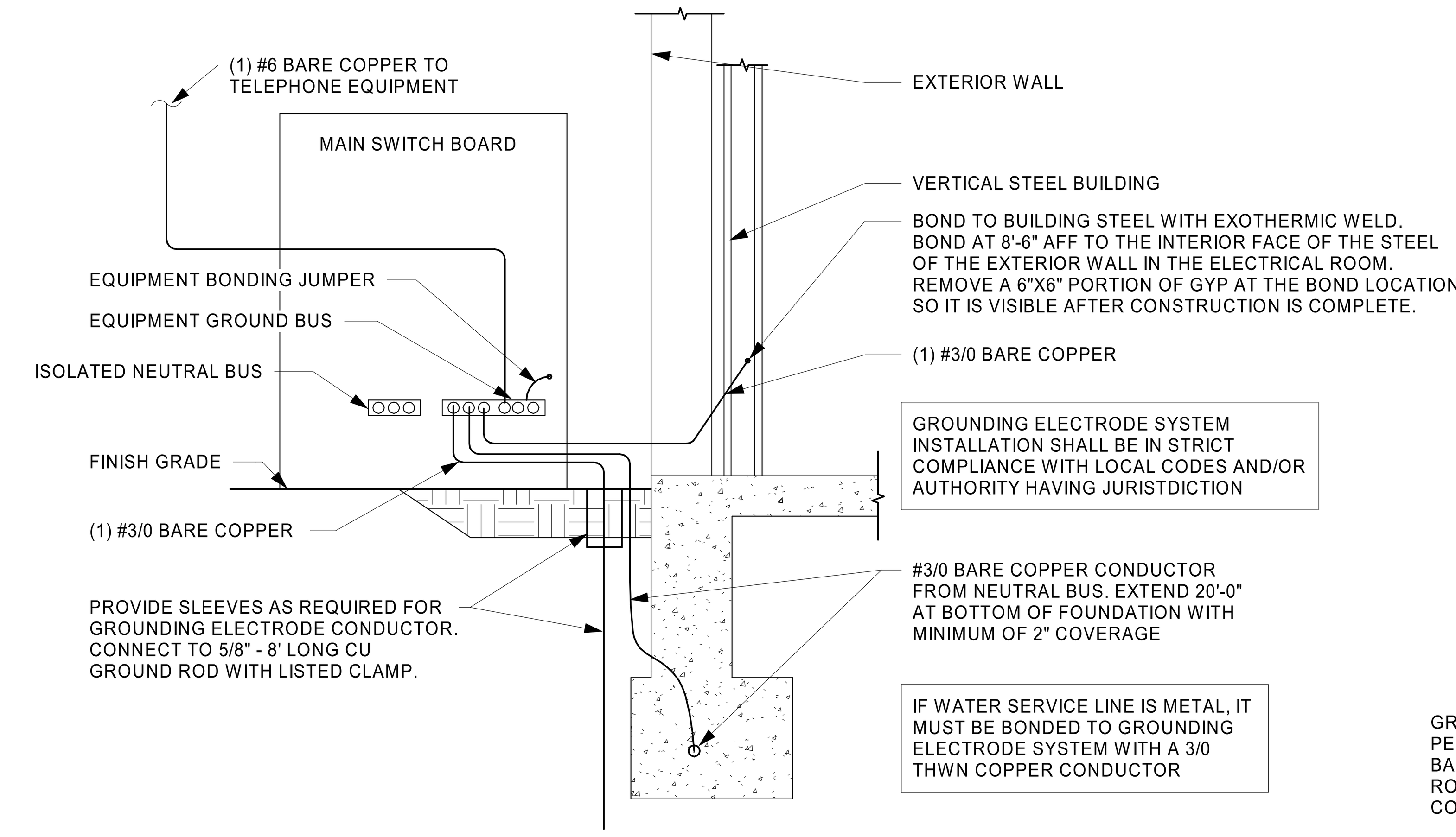
1. SWITCHBOARD 'MDP' SHALL BE RATED FOR SERVICE ENTRANCE AND SHALL HAVE BUILT-IN TRANSIENT VOLTAGE SURGE SUPRESSION (TVSS) PROTECTION, PROVIDED BY OWNER.
2. EQUIPMENT BRACING RATINGS ARE BASED SECONDARY FAULT OF A 300 KVA TRANSFORMER WITH 2.1% IMPEDANCE, AS PROVIDED BY POWER COMPANY.
3. ALL SWITCHGEAR PROVIDED BY OWNER.
4. THE ORDER FOR THE ELECTRICAL SWITCHGEAR EQUIPMENT (FURNISHED BY LOVE'S) WILL ONLY BE RELEASED AFTER THE E.C. HAS VERIFIED WITH THE UTILITY COMPANY THAT THE DESIGN PERTAINING TO THE ELECTRICAL SERVICE (METERING, CT ENCLOSURE(S), CONDUIT(S), TRANSFORMER PAD, ETC.) MEETS THEIR REQUIREMENTS. THE OWNER (LOVE'S) MUST RECEIVE THIS VERIFICATION TO RELEASE THE ORDER.

KEYNOTES

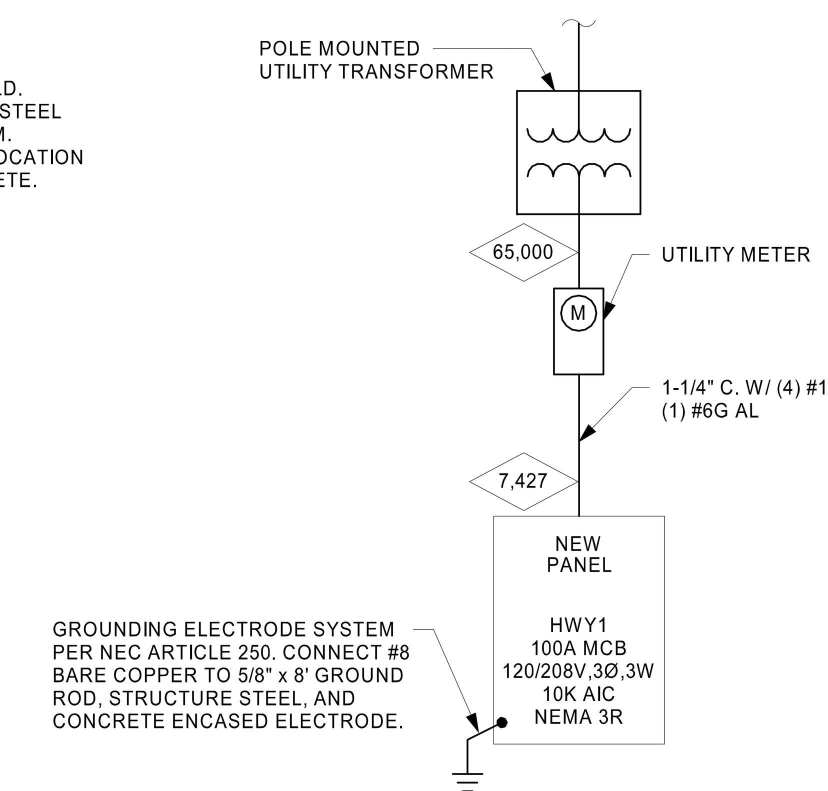
26.441	3-POLE, 200A, 100K AIC, ELECTRICALLY HELD LIGHTING CONTACTOR IN A NEMA 1 ENCLOSURE. INCLUDE TIME CLOCK (TC) IN SAME ENCLOSURE. CONTACTOR SHALL CONTROL PANEL 'LP3'. REFERENCE OUTDOOR LIGHTING CONTROL WIRING DETAIL.
26.442	SITE LIGHTING MANUAL OVERRIDE SWITCH IN OFFICE.
26.443	COORDINATE METERING REQUIREMENTS WITH UTILITY COMPANY.
26.444	PANEL 'LP5' SHALL HAVE BUILT-IN TVSS PROTECTION, PROVIDED BY OWNER.
26.445	ISO-FUEL PANEL 'FP' PROVIDED BY PATCO ELECTRICAL SERVICES. SEE FUEL ELECTRICAL DRAWINGS FOR WIRING DIAGRAMS AND ALL CONNECTION REQUIREMENTS.
26.446	ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A 3/4" CONDUIT FROM THE METER BASE TO TELEPHONE DEMARCATION AREA FOR FUTURE ENERGY MONITORING.
26.447	INSTALL ENERGY REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR.



4 ATS - GROUNDING SYSTEM DETAIL
NTS



3 MDP - GROUNDING SYSTEM DETAIL
NTS



2 HIGH RISE ONE-LINE DIAGRAM
NTS

ONE-LINE SYMBOL LEGEND

Symbol	Description
	BREAKER
GFR	GROUND FAULT RELAY
ST	SHUNT TRIP
	CURRENT TRANSFORMER

MDP — PANELBOARD

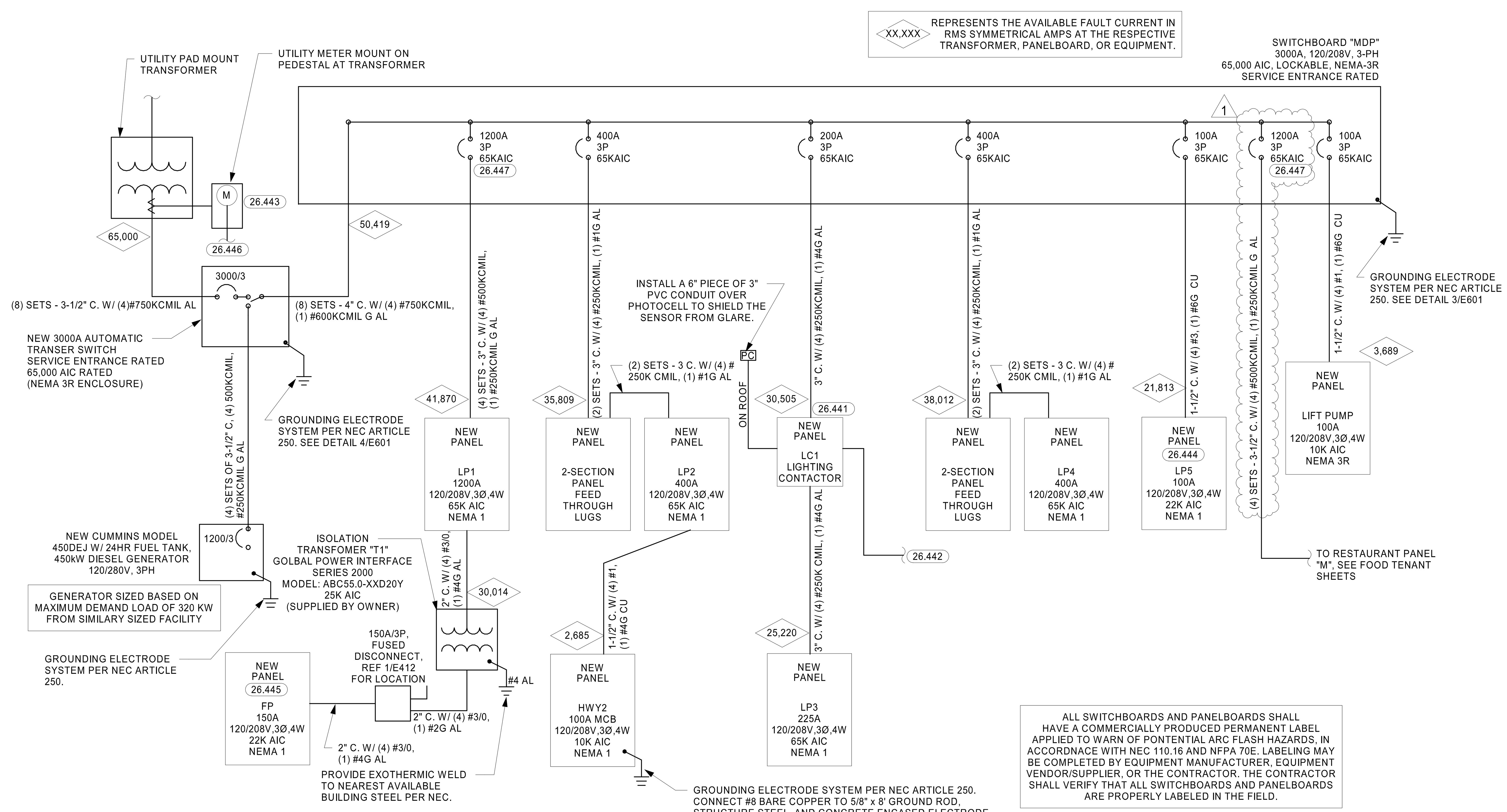
208Y/120V,3PH,4W
3000 A MLO
65K AIC, FULLY RATED
SURFACE, NEMA 3R

LOCATION: EXTERIOR
SUPPLY FROM: AUTOMATIC TRANSFER SWITCH
UPSTREAM OCPD:
SERVES: DISTRIBUTION
SERVICE ENTRANCE RATED

CKT	Circuit Description	Wire	Trip	Poles	A		B		C		Poles	Trip	Wire	Circuit Description	CKT
1	PANEL LP1 (10)	--	1200 A	3	124.64	30.67					3	400 A	--	PANEL LP2 (10)	2
3	--	--	--	--			124.64	29.17			--	--	--	--	4
5	--	--	--	--					121.04	25.30	--	--	--	--	6
7	PANEL LP3 (10)	--	200 A	3	7.72	7.24					3	100 A	--	PANEL LP5 (10)	8
9	--	--	--	--			9.33	3.26			--	--	--	--	10
11	--	--	--	--					6.29	6.84	--	--	--	--	12
13	PANEL LP4 (10)	--	400 A	3	38.32	124.81					3	1200 A	--	PANEL M (10)	14
15	--	--	--	--			35.83	124.81			--	--	--	--	16
17	--	--	--	--					32.06	124.81	--	--	--	--	18
19	SPACE(400A/3P)		--	1	--	--					1	--		SPACE (400A/3P)	20
21	--		--	1			--	--			1	--		--	22
23	--		--	1					--	--	1	--		--	24
25	LIFT STATION	1	100 A	3	5.16	--					1	--		SPACE (100A/3P)	26
27	--	--	--	--			5.16	--			1	--		--	28
29	--	--	--	--					5.16	--	1	--		--	30
31	TVSS (11)	--	20 A	3	0.00	--					3	--		UNUSABLE SPACE	32
33	--	--	--	--			0.00	--			--	--	--	--	34
35	--	--	--	--					0.00	--	--	--	--	--	36
	TOTAL CONNECTED KVA:				338.57 kVA		332.20 kVA		321.51 kVA						
	TOTAL CONNECTED AMPS:				2835.13 A		2782.08 A		2679.25 A						

PER NEC ARTICLE 220

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	TOTAL DEMAND	PANEL TOTALS	
CONTINUOUS	17.08 kVA	125.00%	21.35 kVA		
NON-CONTINUOUS	241.27 kVA	100.00%	241.27 kVA	TOTAL CONN. LOAD:	1005.76 kVA
LIGHTING	78.60 kVA	125.00%	98.25 kVA	TOTAL DEMAND LOAD:	898.29 kVA
RECEPTACLES	50.98 kVA	59.81%	30.49 kVA	TOTAL CONN. CURRENT:	2792 A
MOTORS	42.29 kVA	100.00%	42.29 kVA	TOTAL DEMAND CURRENT:	2493 A
KITCHEN	237.21 kVA	65.00%	154.19 kVA		
REFRIGERATION	40.50 kVA	100.00%	40.50 kVA		
HVAC COOL	29.50 kVA	0.00%	0.00 kVA		
HVAC HEAT	215.64 kVA	100.00%	215.64 kVA		



ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED TO WARN OF PONTENTIAL ARC FLASH HAZARDS, IN ACCORDNACE WITH NEC 110.16 AND NFPA 70E. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

1 ONE-LINE DIAGRAM
NTS

HFA
HARRISON FRENCH & ASSOCIATES, LTD
t 479.273.7780
1705 S. Walton Blvd., Suite 3
Bentonville, Arkansas 72712
www.hfa-ae.com

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ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM

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