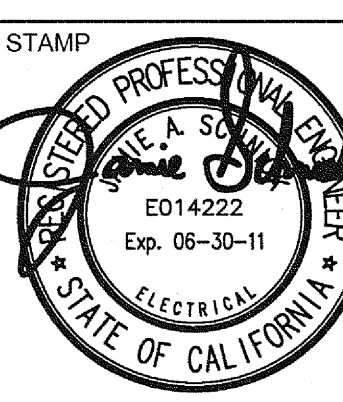
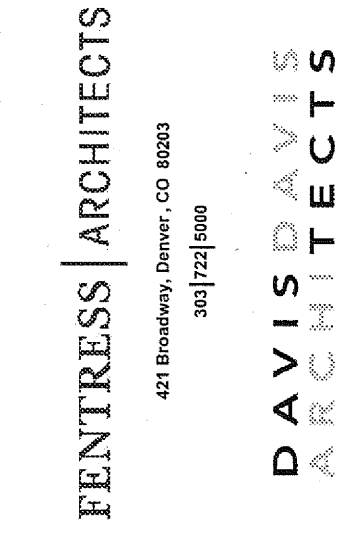
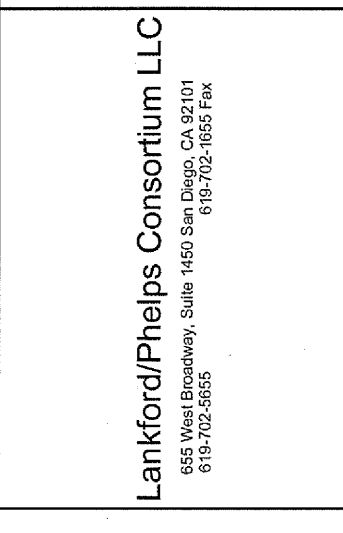
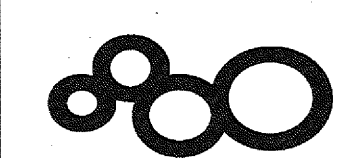
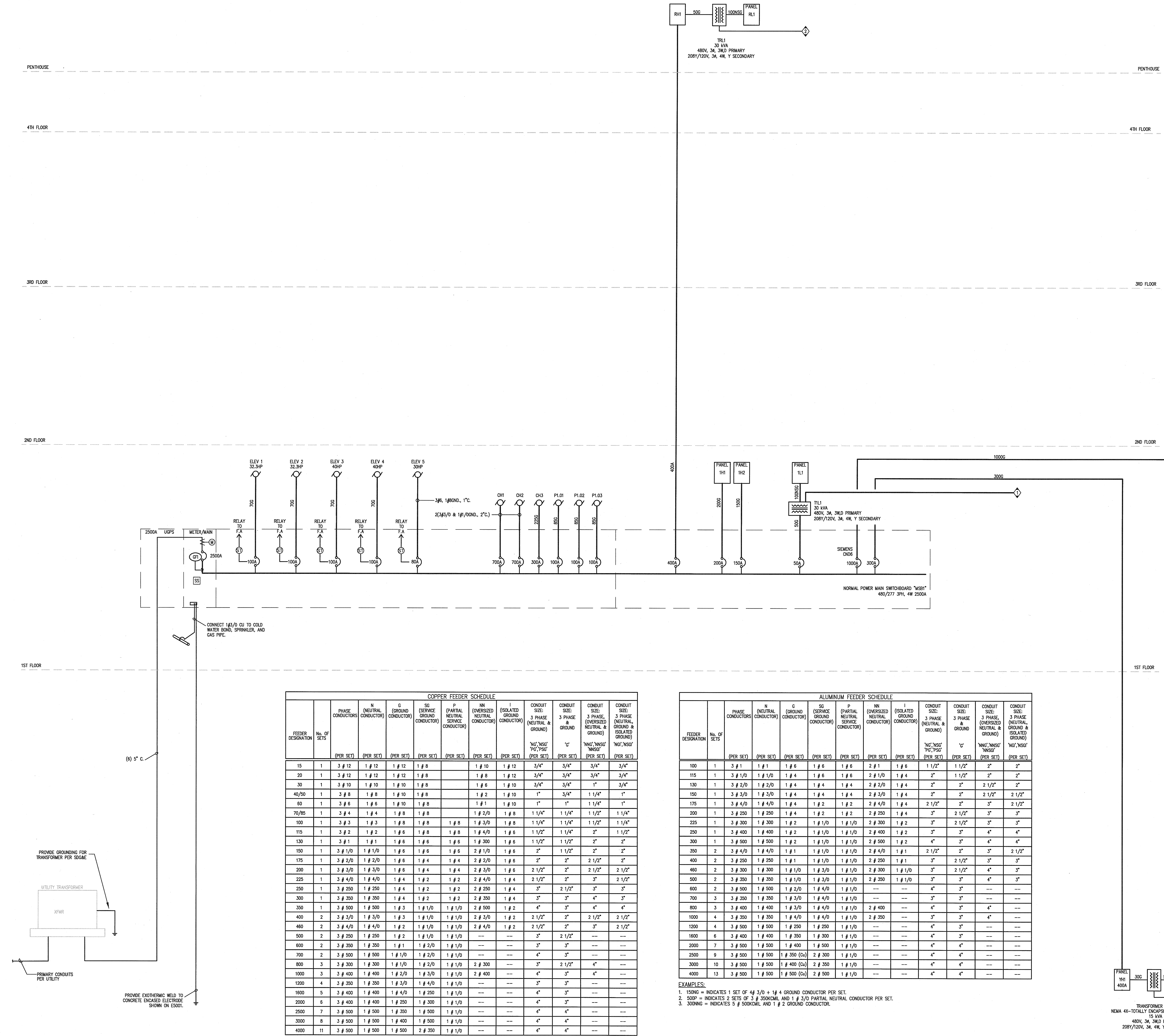




GENERAL NOTES:
1. USE COPPER CONDUCTORS FOR FEEDERS RATED LESS THAN 100A AND FOR FEEDERS TO CHILLERS.
KEY NOTES:
CONNECT (1) 3/0 CU TO GROUND BUSBAR IN MAIN ELECTRICAL ROOM 1802 IN 1ST FL.
CONNECT (1) 3/0 CU TO GROUND BUSBAR IN 4TH FL. ELECTRICAL ROOM ROUTE IN 1ST FL.



COPPER FEEDER SCHEDULE											
FEEDER DESIGNATION	No. OF SETS	PHASE CONDUCTORS (PER SET)	N (NEUTRAL CONDUCTOR) (PER SET)	G (GROUND CONDUCTOR) (PER SET)	SG (SERVICE GROUND CONDUCTOR) (PER SET)	P (PARTIAL NEUTRAL SERVICE CONDUCTOR) (PER SET)	NN (OVERSIZED NEUTRAL CONDUCTOR) (PER SET)	I (ISOLATED NEUTRAL CONDUCTOR) (PER SET)	CONDUIT SIZE: 3 PHASE (NEUTRAL & GROUND) (PER SET)	CONDUIT SIZE: 3 PHASE (OVERSIZED NEUTRAL & ISOLATED GROUND) (PER SET)	CONDUIT SIZE: 3 PHASE (NEUTRAL, GROUND & ISOLATED GROUND) (PER SET)
15	1	3 # 12	1 # 12	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	3/4"	3/4"	3/4"
20	1	3 # 12	1 # 12	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	3/4"	3/4"	3/4"
30	1	3 # 10	1 # 10	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	3/4"	3/4"	3/4"
40/50	1	3 # 8	1 # 8	1 # 10	1 # 8	1 # 8	1 # 8	1 # 8	1"	1 1/4"	1"
60	1	3 # 6	1 # 6	1 # 10	1 # 8	1 # 8	1 # 8	1 # 8	1"	1 1/4"	1"
70/85	1	3 # 4	1 # 4	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	1 1/4"	1 1/4"	1 1/4"
100	1	3 # 3	1 # 3	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	1 1/4"	1 1/4"	1 1/4"
115	1	3 # 2	1 # 2	1 # 8	1 # 8	1 # 8	1 # 8	1 # 8	1 1/2"	1 1/2"	1 1/2"
130	1	3 # 1	1 # 1	1 # 6	1 # 6	1 # 6	1 # 6	1 # 6	1 1/2"	2"	2"
150	1	3 # 1/0	1 # 1/0	1 # 6	1 # 6	1 # 6	1 # 6	1 # 6	2"	2 1/2"	2"
175	1	3 # 2/0	1 # 2/0	1 # 6	1 # 4	1 # 4	1 # 4	1 # 4	2"	2 1/2"	2"
200	1	3 # 3/0	1 # 3/0	1 # 6	1 # 4	1 # 4	1 # 4	1 # 4	2 1/2"	2"	2 1/2"
225	1	3 # 300	1 # 300	1 # 2	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
250	1	3 # 400	1 # 400	1 # 2	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
300	1	3 # 500	1 # 500	1 # 2	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
350	2	3 # 4/0	1 # 4/0	1 # 1	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	2 1/2"
400	2	3 # 250	1 # 250	1 # 1	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
460	2	3 # 300	1 # 300	1 # 1/0	1 # 3/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
500	2	3 # 350	1 # 350	1 # 1/0	1 # 3/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
600	2	3 # 500	1 # 500	1 # 2/0	1 # 4/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
700	3	3 # 350	1 # 350	1 # 3/0	1 # 4/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
800	3	3 # 400	1 # 400	1 # 3/0	1 # 4/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
1000	4	3 # 500	1 # 500	1 # 250	1 # 1/0	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
1600	6	3 # 400	1 # 400	1 # 350	1 # 300	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
2000	7	3 # 500	1 # 500	1 # 400	1 # 350	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
2500	9	3 # 500	1 # 500	1 # 350 (Cu)	2 # 300	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
3000	10	3 # 500	1 # 500	1 # 400 (Cu)	2 # 350	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"
4000	13	3 # 500	1 # 500	1 # 500 (Cu)	2 # 500	1 # 1/0	1 # 1/0	1 # 1/0	2 1/2"	3"	3"

ALUMINUM FEEDER SCHEDULE											
FEEDER DESIGNATION	No. OF SETS	PHASE CONDUCTORS (PER SET)	N (NEUTRAL CONDUCTOR) (PER SET)	G (GROUND CONDUCTOR) (PER SET)	SG (SERVICE GROUND CONDUCTOR) (PER SET)	P (PARTIAL NEUTRAL SERVICE CONDUCTOR) (PER SET)	NN (OVERSIZED NEUTRAL CONDUCTOR) (PER SET)	I (ISOLATED NEUTRAL CONDUCTOR) (PER SET)	CONDUIT SIZE: 3 PHASE (NEUTRAL & GROUND) (PER SET)	CONDUIT SIZE: 3 PHASE (OVERSIZED NEUTRAL & ISOLATED GROUND) (PER SET)	CONDUIT SIZE: 3 PHASE (NEUTRAL, GROUND & ISOLATED GROUND) (PER SET)
100	1	3 # 1	1 # 1	1 # 6	1 # 6	1 # 6	1 # 6	1 # 6	1 1/2"	1 1/2"	2"
115	1	3 # 1/0	1 # 1/0	1 # 4	1 # 6	1 # 6	2 # 1/0	1 # 4	2"	1 1/2"	2"
130	1	3 # 2/0	1 # 2/0	1 # 4	1 # 4	1 # 4	2 # 2/0	1 # 4	2"	2"	2"
150	1	3 # 3/0	1 # 3/0	1 # 4	1 # 4	1 # 4	2 # 3/0	1 # 4	2"	2"	2 1/2"
175	1	3 # 4/0	1 # 4/0	1 # 4	1 # 2	1 # 2	2 # 4/0	1 # 4	2 1/2"	2"	2 1/2"
200	1	3 # 250	1 # 250	1 # 4	1 # 2	1 # 2	2 # 250	1 # 4	3"	2 1/2"	3"
225	1	3 # 300	1 # 300	1 # 2	1 # 1/0	1 # 1/0	2 # 300	1 # 2	3"	2 1/2"	3"
250	1	3 # 400	1 # 400	1 # 2	1 # 1/0	1 # 1/0	2 # 400	1 # 2	3"	3"	4"
300	1	3 # 500	1 # 500	1 # 2	1 # 1/0	1 # 1/0	2 # 500	1 # 2	4"	3"	4"
350	2	3 # 4/0	1 # 4/0	1 # 1	1 # 1/0	1 # 1/0	2 # 4/0	1 # 1	2 1/2"	3"	2 1/2"
400	2	3 # 250	1 # 250	1 # 1	1 # 1/0	1 # 1/0	2 # 250	1 # 1	3"	2 1/2"	3"
460	2	3 # 300	1 # 300	1 # 1/0	1 # 3/0	1 # 1/0	2 # 300	1 # 1/0	3"	2 1/2"	4"
500	2	3 # 350	1 # 350	1 # 1/0	1 # 3/0	1 # 1/0	2 # 350	1 # 1/0	3"	3"	4"
600	2	3 # 500	1 # 500	1 # 2/0	1 # 4/0	1 # 1/0	2 # 500	1 # 1/0	4"	3"	4"
700	3	3 # 350	1 # 350	1 # 3/0	1 # 4/0	1 # 1/0	2 # 350	1 # 1/0	4"	3"	4"
800	3	3 # 400	1 # 400	1 # 3/0	1 # 4/0	1 # 1/0	2 # 400	1 # 1/0	4"	3"	4"
1000	4	3 # 500	1 # 500	1 # 250	1 # 1/0	1 # 1/0	2 # 500	1 # 1/0	4"	3"	4"
1600	6	3 # 400	1 # 400	1 # 350	1 # 300	1 # 1/0	2 # 400	1 # 1/0	4"	3"	4"
2000	7	3 # 500	1 # 500	1 # 400	1 # 350	1 # 1/0	2 # 500	1 # 1/0	4"	4"	4"
2500	9	3 # 500	1 # 500	1 # 350 (Cu)	2 # 300	1 # 1/0	2 # 350	1 # 1/0	4"	4"	4"
3000	10	3 # 500	1 # 500	1 # 400 (Cu)	2 # 350	1 # 1/0	2 # 400	1 # 1/0	4"	4"	4"
4000	13	3 # 500	1 # 500	1 # 500 (Cu)	2 # 500	1 # 1/0	2 # 500	1 # 1/0	4"	4"	4"

EXAMPLES:
1. 1500G = INDICATES 1 SET OF 4 # 1/0 + 1 # 4 GROUND CONDUCTOR PER SET.
2. 500P = INDICATES 2 SETS OF 3 # 350KCMIL AND 1 # 3/0 PARTIAL NEUTRAL CONDUCTOR PER SET.
3. 300NG = INDICATES 5 # 500KCMIL AND 1 # 4 GROUND CONDUCTOR.

U.C.S.D.
PRELIMINARY DRAWINGS
PROGRESS DRAWINGS
REVIEW DRAWINGS
CONSTRUCTION DRAWINGS

APR 15 2010
STATE OF CALIFORNIA
SOUTHERN REGION

TRANSFORMER 'T1'
NEMA 4X-TOTALLY ENCLOSED ENCLOSURE
15 kVA
480V, 3A, 3RD PRIMARY
208Y/120V, 3A, 4W, Y SECONDARY