LEGEND

LUMINAIRES (SEE LIGHTING FIXTURE SCHEDULE)

NOTES:
THE NUMBER INSIDE THE CIRCLE IS THE FIXTURE TYPE
DESCRIDED IN THE LIGHTING FIXTURE SCHEDULE

- 2x4 FLOURSCENT FIXTURE
- SURFACE MOUNTED OR SUSPENDED FLOURSCENT FIXTURE
- CEILING FAN WITH LIGHT KIT
- CEILING MTG FIXTURE
- WALL MTG FIXTURE
- RECESSED FIXTURE
- VENT
- E — EXIT LIGHT, BATTERY BACK-UP (WALL PACK)
- EX — EXIT LIGHT, BATTERY BACK-UP, CEILING MTG, ,CAT.# SCL12RW (PROVIDE CHEVRONS AS INDICATED BY ARROWS)
- EM — EMERGENCY LIGHT, BATTERY BACK-UP

RECEPTACLES

- DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 15" A.F.F TO BOTTOM OF BOX UNLESS NOTED OTHERWISE
- GFI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 42" A.F.F. TO BOTTOM OF BOX UNLESS NOTED OTHERWISE
- RECEPTACLE, NEMA 5-20, FOR CONNECTION TO MICROWAVE. COORDINATE MOUNTING HEIGHT WITH MILLWORK CONTRACTOR. PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED.
- SINGLE RECEPTACLE, NEMA 14-30R, PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED. MOUNTING DETERMINED BY NEC FOR TYPE OF EQUIPMENT BEING CONNECTED.
- SINGLE RECEPTACLE, NEMA 14-50R, PROVIDE 6' CORD AND MATCHING PLUG WHERE REQUIRED. MOUNTING DETERMINED BY NEC FOR TYPE OF EQUIPMENT BEING CONNECTED.

SWITCHES

- $ — SWITCH
- $3 — 3 WAY SWITCH

WIRING

- 10 — THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CABLE. THE ABSENCE OF TIC MARKS SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG. WHERE NM CABLE IS UNAVAILABLE IN AWG SIZES SHOWN, PROVIDE CONDUCTORS IN CONDUIT.
- G-13 — HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER BELOW. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.
- PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT IN A JUNCTION BOX PRIOR TO ENTERING THE PANELBOARD.

FIRE ALARM SYSTEM

- STAND ALONE SMOKE DETECTOR. INTERCONNECT ALL DEVICES IN ANY INDIVIDUAL DWELLING UNIT SO THAT AN ALARM DETECTION OF ANY DEVICE CAUSES ALL OF THEM TO ALARM.

HEARING - IMPAIRED EQUIPMENT

- VSD — STAND ALONE SMOKE DETECTOR FOR HEARING IMPAIRED UNITS ONLY. GENTEX #7109CSC OR EQUAL. INTERCONNECT ALL DEVICES IN ANY INDIVIDUAL DWELLING UNIT SO THAT AN ALARM DETECTION OF ANY DEVICE CAUSES ALL OF THEM TO ALARM.

COMMUNICATIONS

- TELEPHONE OUTLET, MOUNTED 15" A.F.F. TO BOTTOM OF BOX UNLESS NOTED OTHERWISE.
- ? — THELEPHONE OUTLET. (MOUNTING HEIGHT NOTED ON DRAWINGS)

VIDEO EQUIPMENT

- CABLE TELEVISION OUTLET MOUNTED AT 15" A.F.F. TYPE F FEMALE CONNECTOR INSTALLED IN WALLPLATE OF A FLUSH MOUNTED OUTLET BOX.

GEAR

- ?/?/? — NON-FUSED DISCONNECT SWITCH. TEXT INDICATES: INDICATES: AMPACITY /NUMBER OF POLES /ENCLOSURE TYPE
- POWER PANEL. MOUNTED WITH TOP BREAKER NO HIGHER THAN 48" A.F.F
- GARBAGE DISPOSAL

LIGHT FIXTURE SCHEDULE

MARK	MFGR.	LAMP	MOUNTING	VOLTS	REMARKS
A	*	1-60A	CEILING	120	FOYER, HALL, BATH CEILING, CLUBHOUSE RESTRM. CEILING
B	*	2-F32T8	CEILING	120	KITCHEN, OFFICES & KITCHENETTE - CLUBHOUSE
C	*	1-F20T12CW	UNDERCABINET	120	DESK
D	*	1-CF13	CEILING	120	UTILITY, CLOSETS
EM	*	2-5.4W	CEILING	120	EMERGENCY W/BATTERY BACKUP
EX	*	-	CEILING	120	EMERGENCY/EXIT W/BATTERY BACKUP
F	*	1-75PAR30	RECESSED	120	DINING, INTERIOR RECESSED - CLUBHOUSE
G	*	3-60A15	FAN LT. KIT	120	LIVING ROOM FAN LIGHT KIT
GF	*	-	FAN	120	LIVING ROOM CEILING FAN
H	*	1-60A	CEILING	120	PATIO
J	*	1-60A	CEILING	120	STORAGE
K	*	1-60A15	FAN LT. KIT	120	BEDROOM FAN LIGHT KIT
KF	*	-	FAN	120	BEDROOM CEILING FAN
L	*	1-75PAR30	RECESSED	120	EXTERIOR RECESSED - CLUBHOUSE
M	*	5-60A	WALL	120	ALL BATHROOMS - APTS. & CLUBHOUSE
N	*	2-CF13	CEILING	120	BREEZEWAY
P	*	1-175MH	WALL	120	EXTERIOR 3RD FLOOR BLDGS. 1,2,3,5&6
R	*	-	FAN	120	RECEPTION/CLOSING
T	*	4-F32T8	CEILING	120	MAINTENANCE, EXERCISE, COPY/FILE

* FIXTURE MANUFACTURERS

CEILING: LIVEX, LEVITON, MILLENNIUM
FAN, FAN/LGT.: LITEX, SIMKAR, MILLENNIUM
WALL: SIMKAR, LIVEX, MILLENNIUM
RECESSED: CAPRI, INDRA, MILLENNIUM

MECHANICAL CONNECTION SCHEDULE

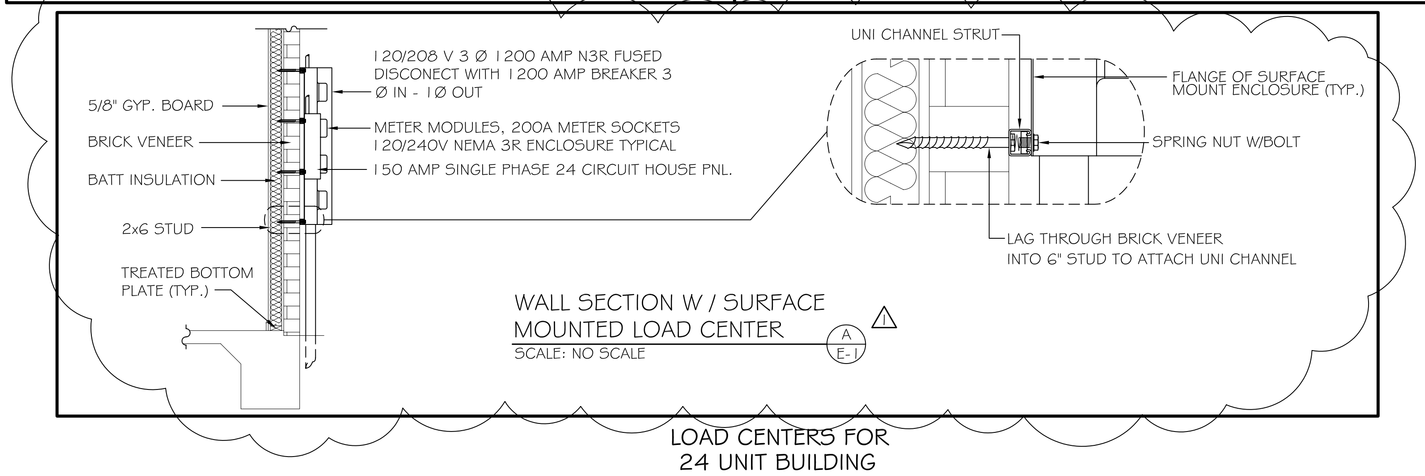
MARK	PANEL NAME	CIRCUIT NO.	BREAKER	CIRCUITRY	LOCAL DISCONNECT
HP COND	ONE BEDROOM	1,3	30/2	2#10,#8(G)	30/2/3R
AHU	ONE BEDROOM	5,7	30/2	2#10,#8(G)	30/2/3R
HP COND	TWO BEDROOM	1,3	35/2	2#8,#8(G)	40/2/3R
AHU	TWO BEDROOM	5,7	40/2	2#8,#8(G)	50/2/3R
HP COND	THREE BEDROOM	1,3	40/2	2#8,#8(G)	50/2/3R
AHU	THREE BEDROOM	5,7	40/2	2#8,#8(G)	50/2/3R
HP COND	#3	1,3	50/2	2#8,#8(G)	60/2/3R
AHU	#3	5,7	40/2	2#8,#8(G)	50/2/3R
HP COND	#4	9,11	60/2	2#6,#8(G)	60/2/3R
AHU	#4	13,15,17,19	60/2	2#6,#8(G)	60/2/3R
HP COND	#5	2,4	60/2	2#6,#8(G)	60/2/3R
AHU	#5	6,8,10,12	60/2	2#6,#8(G)	60/2/3R

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATIONS OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT.
10. PERFORM TESTS REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS. STAMPED BOXES MAY BE USED ABOVE CEILINGS IN AIR CONDITIONED SPACES. MC MAY BE USED FOR LIGHTING WHIPS.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5 FEET OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 AND 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23B.
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200000 AMP INTERRUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/ SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHAL.
19. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
20. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
21. USE TYPE EX145O, EX165N, EX185N, EZ185NZ, EX18XN, EX205N, EX205B, EX205BV, EX205NZ, EZ235N, EX235NZ, EX25DO, EX32DN, EX32DNZ, EZ32XN, EX44TN, EX44TNZ, EZ48TN, EX74TN, EX18CNEX18CNG, EZ20CH, EZ20CHG, EZ20CN, NON-METALLIC BOXES. FOR USE IN FIRE RESISTANCE WALL CONSTRUCTED IN WOOD OR NONBEARING STEEL STUDS AND GYPSUM WALLBOARD WITH 2 HOURS OR LESS CLASSIFICATION PERIODS. CLEARANCE BETWEEN BOXES AND CUTOUTS SHALL NOT EXCEED 1/8 INCH. THE AREA OF OPENINGS FOR BOXES SHALL NOT AGGREGATE MORE THAN 100 SQUARE INCHES OF WALL OR PARTITION AREA WITH NO OPENING EXCEEDING 22.0 SQUARE INCHES. OUTLET BOXES ON OPPOSITE STUDS OF WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES.
23. CONTRACTOR SHALL BALANCE ALL PANELS.

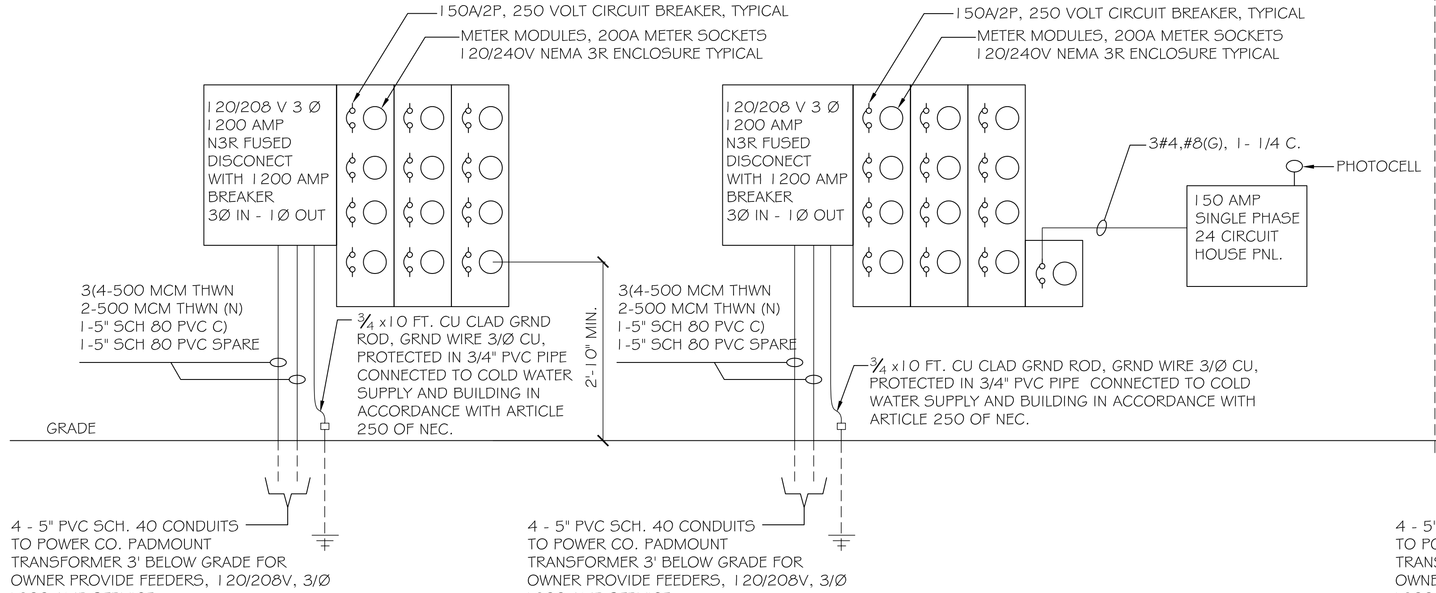
SINGLE LINE NOTES:

1. EACH PANELBOARD IN EACH UNIT SHALL BE FED FROM A 125A/2P BREAKER INSTALLED IN THE METER CENTER. FEEDER CIRCUITRY SHALL BE 3#2,#6(G).
2. EACH 24 UNIT BUILDING SHALL HAVE TWO NEMA 3R METER CENTERS LOCATED AS SHOWN ON THE SITE PLAN. ALL METER CENTERS SHALL HAVE A MINIMUM OF TWELVE 125/2 BREAKERS TO FEED THE INDIVIDUAL UNITS. ONE METER CENTER AT EACH BUILDING SHALL HAVE AN EXTRA METER AND 60/2 BREAKER FOR THE HOUSE PANEL. ALL METER CENTERS SHALL HAVE 800A BUS RATINGS WITH 800A FUSED DISCONNECTS.
3. EACH 36 UNIT BUILDING SHALL HAVE THREE NEMA 3R METER CENTERS LOCATED AS SHOUN ON THE SITE PLAN. ALL METER CENTERS SHALL HAVE A MINIMUM OF TWELVE 125/2 BREAKERS TO FEED THE INDIVIDUAL UNITS. ONE METER CENTER AT EACH BUILDING SHALL HAVE A EXTRA METER AND 60/2 BREAKER FOR THE HOUSE PANEL. ALL METER CENTERS SHALL HAVE 800A BUS RATINGS WITH 800A FUSED DISCONNECTS.
4. THE HOUSE PANEL FOR EACH BUILDING SHALL BE A 60A, 240/120V. 1O, 3W, 10KAIC, 12 CIRCUIT PANEL BOARD EACH WITH 12 BREAKERS. ALL HOUSE PANEL FEEDERS SHALL BE CIRCUITED WITH 3#4,#8(G).
5. AT THE TIME OF DESIGN, THE INFORMATION REQUIRED TO CALCULATE THE METER CENTERS AIC RATINGS WAS NOT AVAILABLE. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY FOR THE AVAILABLE SECONDARY SHORT CIRCUIT CURRENT IN EACH LOCATION TO CORRECTLY SIZE THE METER CENTERS AIC RATINGS.

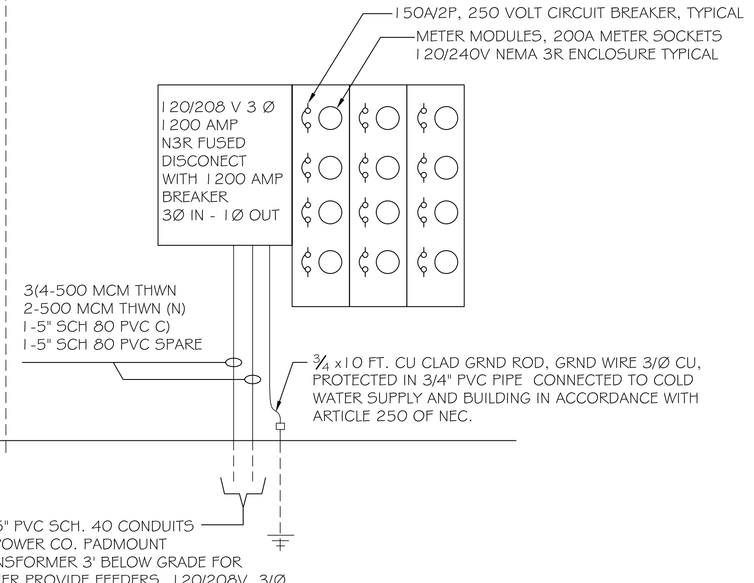


WALL SECTION W / SURFACE MOUNTED LOAD CENTER (A / E-1)
SCALE: NO SCALE

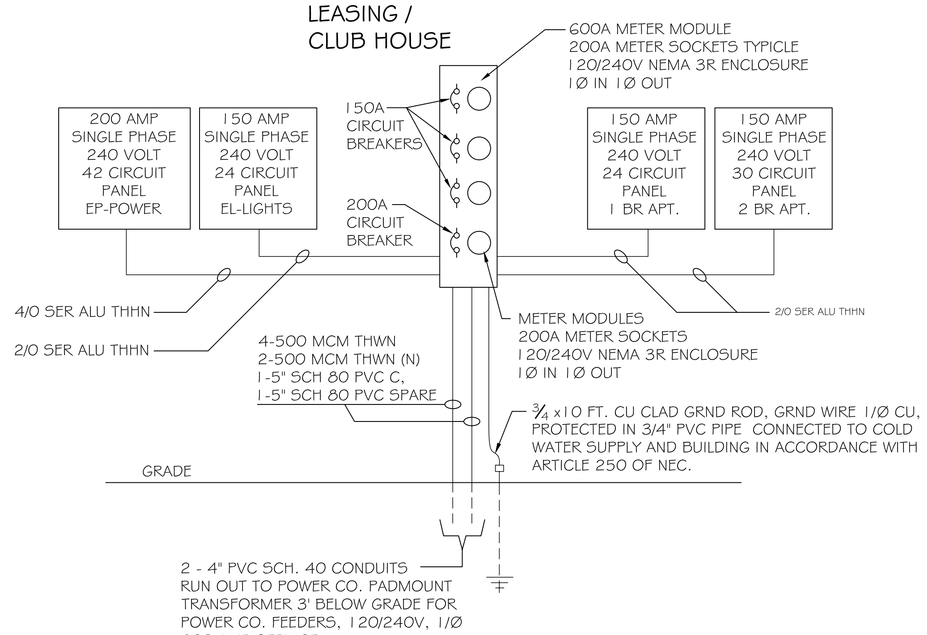
LOAD CENTERS FOR 24 UNIT BUILDING



ADDITIONAL LOAD CENTER FOR 36 UNIT BUILDING



LEASING / CLUB HOUSE



ELECTRICAL SINGLE LINE DIAGRAMS
SCALE: NO SCALE

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ELECTRICAL NOTES & SCHEDULES

REV: 1-15-10 (1)
SCALE: AS NOTED
JOB#: 08112.13
DATE: 12-16-09
SHEET
E-1
OF