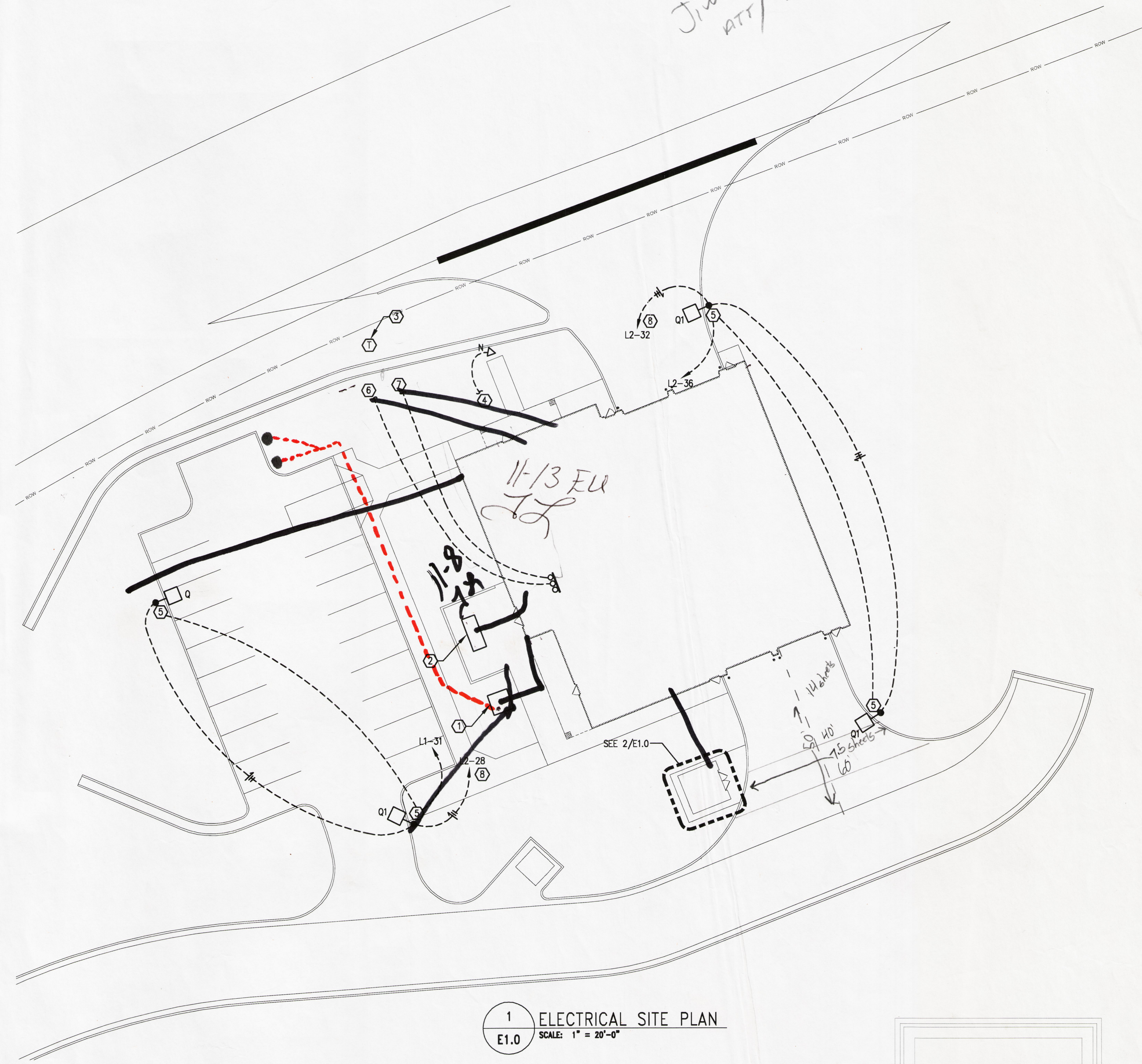
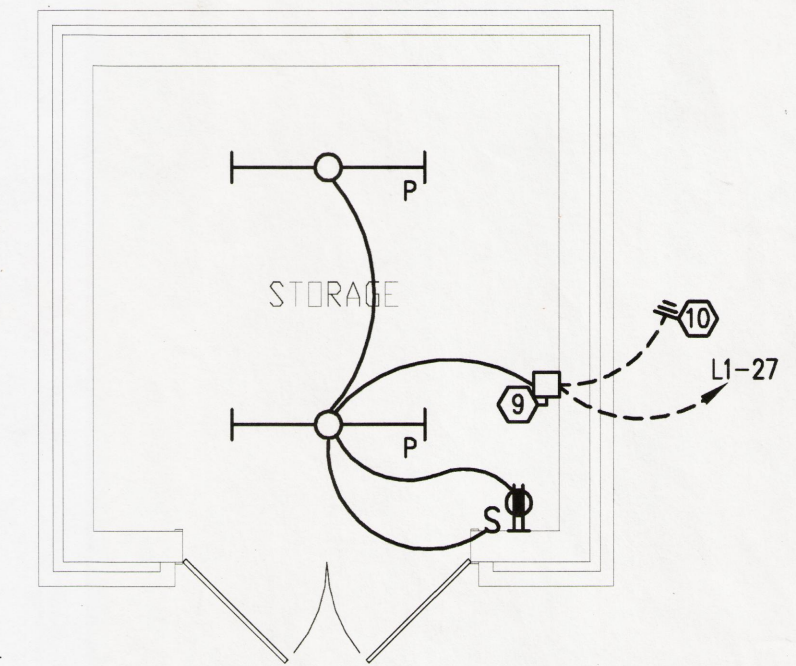


COPYRIGHT © 2012. ALL RIGHTS RESERVED. DRAWINGS MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

Jim REID
ATTY / 970-233-2370



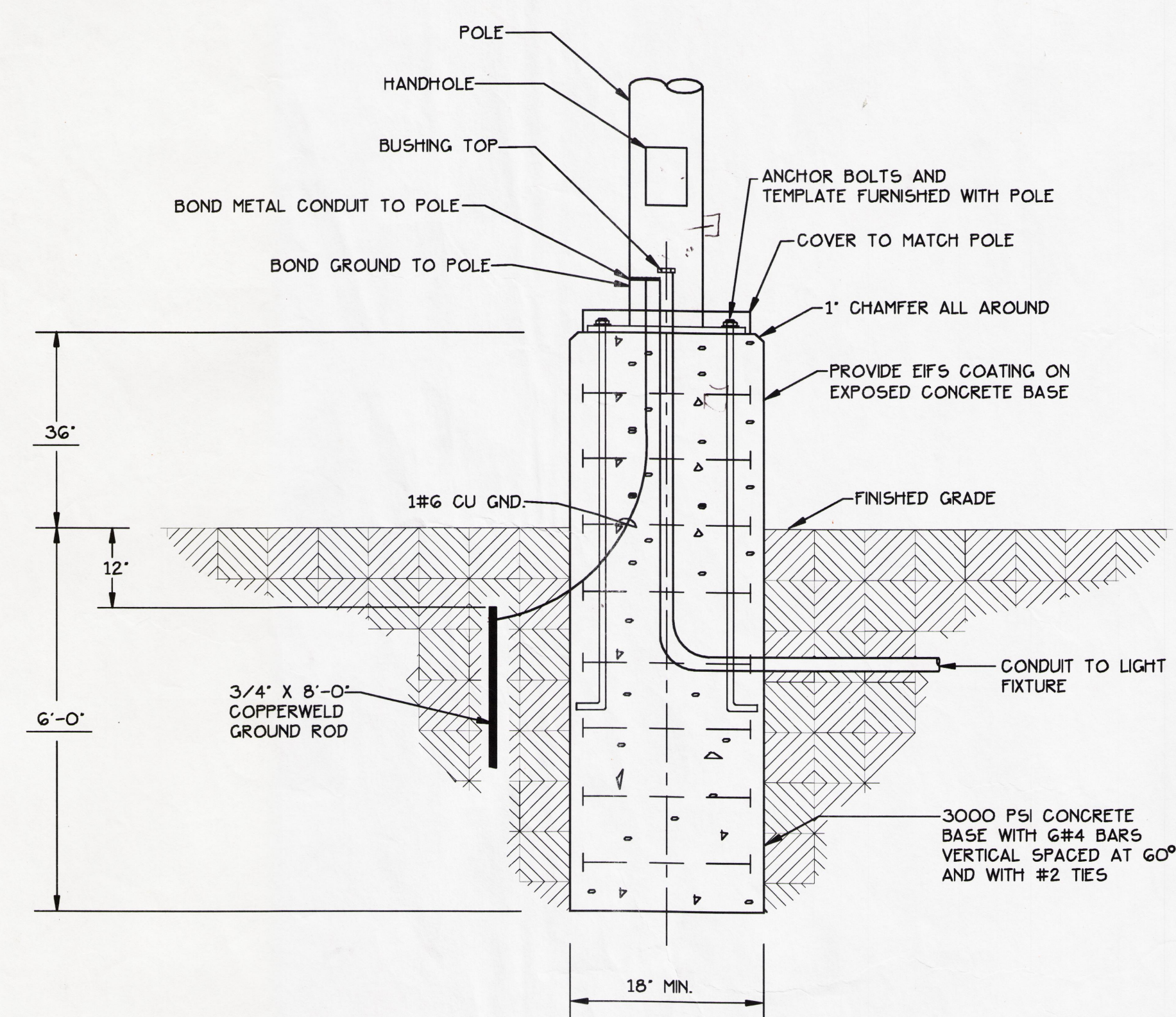
1 ELECTRICAL SITE PLAN
E1.0 SCALE: 1" = 20'-0"



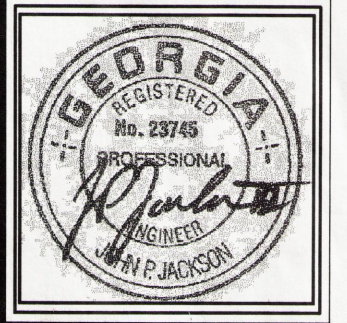
2 STORAGE BUILDING
E1.0 SCALE: 1/4" = 1'-0"
(SEE PLAN FOR ORIENTATION)

KEYNOTES:

- 1 PROPOSED LOCATION OF UTILITY TRANSFORMER. COORDINATE EXACT LOCATION OF TRANSFORMER WITH UTILITY COMPANY PRIOR TO BID, AND INCLUDE IN BID ANY AND ALL COSTS ASSOCIATED WITH INSTALLATION AND CONNECTION OF SERVICE.
- 2 EMERGENCY GENERATOR. SEE SHEET E1.1.
- 3 PROVIDE TAMPER SWITCH AT POST INDICATOR VALVE. ROUTE FIRE ALARM CABLING IN 1" CONDUIT TO FIRE ALARM CONTROL PANEL. PROVIDE MONITOR MODULE INSIDE OF THE BUILDING IN A CLEARLY MARKED BOX ABOVE THE CEILING. COORDINATE LOCATION OF POST INDICATOR VALVE WITH CIVIL PLANS PRIOR TO ROUGH-IN.
- 4 CIRCUIT FOR GRADE MOUNTED FLOOD LIGHTING OF FLAG POLE. EXTEND TO BUILDING MOUNTED LIGHTING FIXTURES. SEE SHEET E1.1.
- 5 PROVIDE A GFI OUTLET WITH WEATHER PROOF COVER IN THE POLE BASE DEVICE BOX.
- 6 ROUTE (2) 2" EC WITH PULL WIRES FOR DATA AND CATV FROM THE TELEPHONE BACKBOARD IN THE MECHANICAL/ELECTRICAL ROOM TO THE PROPERTY LINE FOR USE BY THE UTILITY COMPANIES. COORDINATE STUB UP LOCATION AND TERMINATION REQUIREMENTS WITH THE UTILITY COMPANIES PRIOR TO ROUGH-IN.
- 7 ROUTE (2) 4" EC WITH PULL WIRES FOR TELEPHONE SERVICE FROM THE TELEPHONE BACKBOARD IN THE MECHANICAL/ELECTRICAL ROOM TO THE PROPERTY LINE FOR USE BY THE TELEPHONE COMPANY. COORDINATE STUB UP LOCATION AND TERMINATION REQUIREMENTS WITH THE PHONE COMPANY PRIOR TO ROUGH-IN.
- 8 ROUTE HOMERUN THROUGH EXTERIOR LIGHTING CONTACTOR INDICATED IN KEYNOTE 36, SHEET E1.1.
- 9 30A/1P/20AF SERVICE RATED DISCONNECT SWITCH.
- 10 ROUTE #6 COPPER GROUND WIRE FROM THE GROUND LUG IN THE STORAGE BUILDING DISCONNECT SWITCH TO A 1/2" X 10' LONG COPPER CLAD GROUND ROD DRIVEN SO THAT THE TOP IS 24" BELOW GRADE. GROUND WIRE SHALL BE INSTALLED IN 3/4" GALVANIZED RIGID STEEL CONDUIT.



3 SITE LIGHTING POLE BASE DETAIL
E1.0 NOT TO SCALE



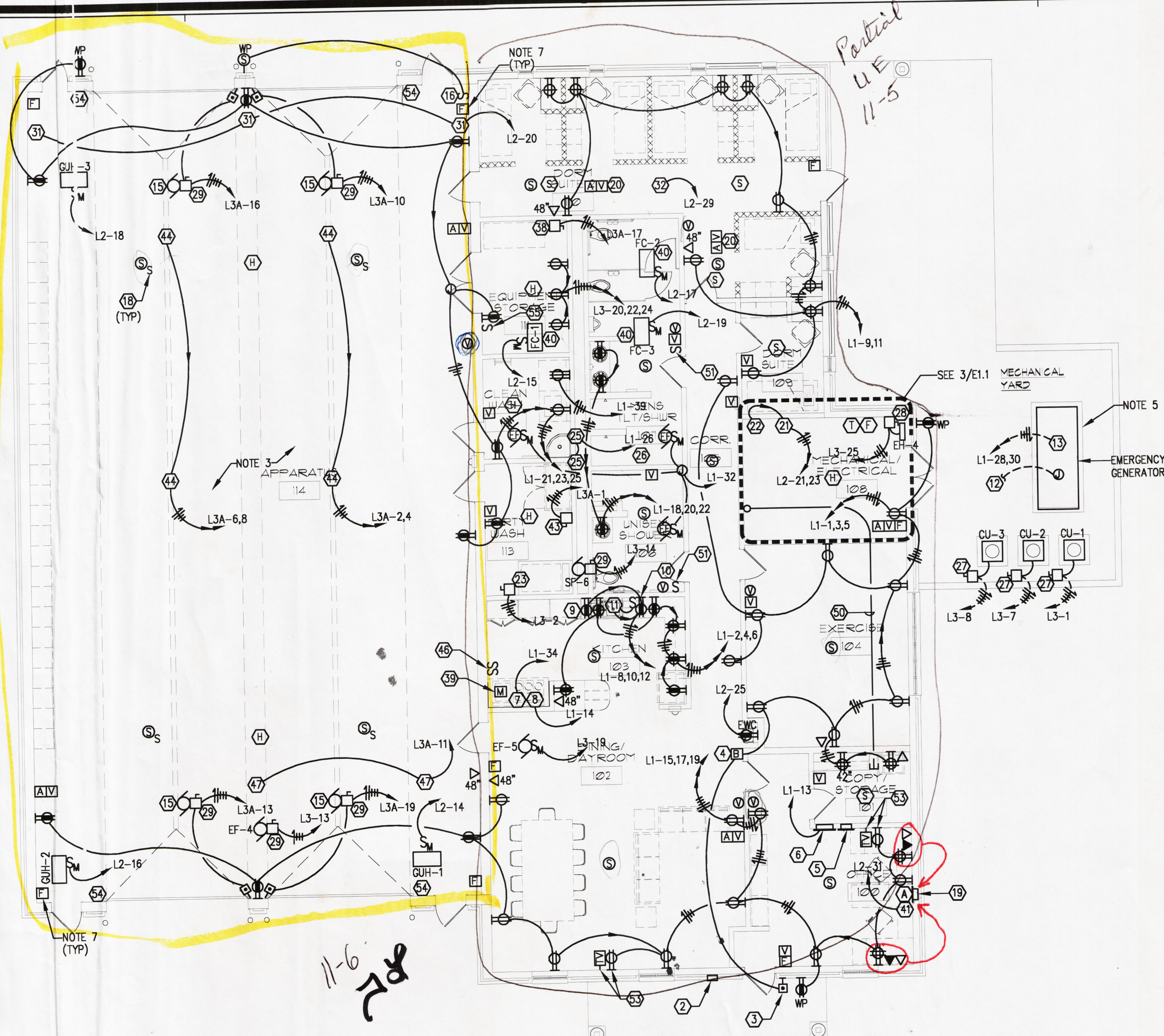
HUSSEY, GAY, BELL & DEYOUNG
INTERNATIONAL, INC. OF GEORGIA
ARCHITECTS
603 GREEN STREET, NE
GAINESVILLE, GEORGIA 30601
TEL 770 696-1183
FAX 770 696-1184
www.hgb.com



DESIGNED	DRAWN	CHECKED
JPJ	JPJ	JPJ
DATE:	MAY 14, 2012	
JOB NO.	611 1078 03	
SCALE:	AS NOTED	

FORSYTH COUNTY
FIRE STATION No. 3
FORSYTH COUNTY, GEORGIA
ELECTRICAL SITE PLAN

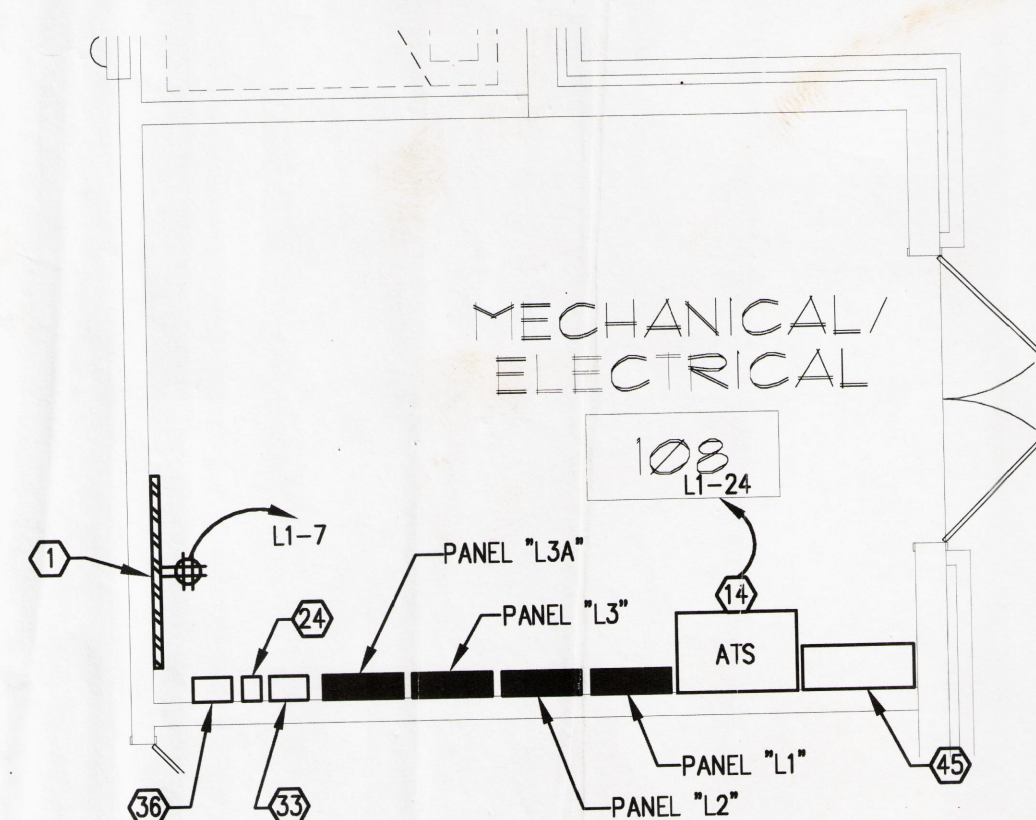
DRAWING NUMBER
E1.0
OF XX



1 POWER/SIGNAL PLAN
E1.1 SCALE: 1/8" = 1'-0"

NOTES:

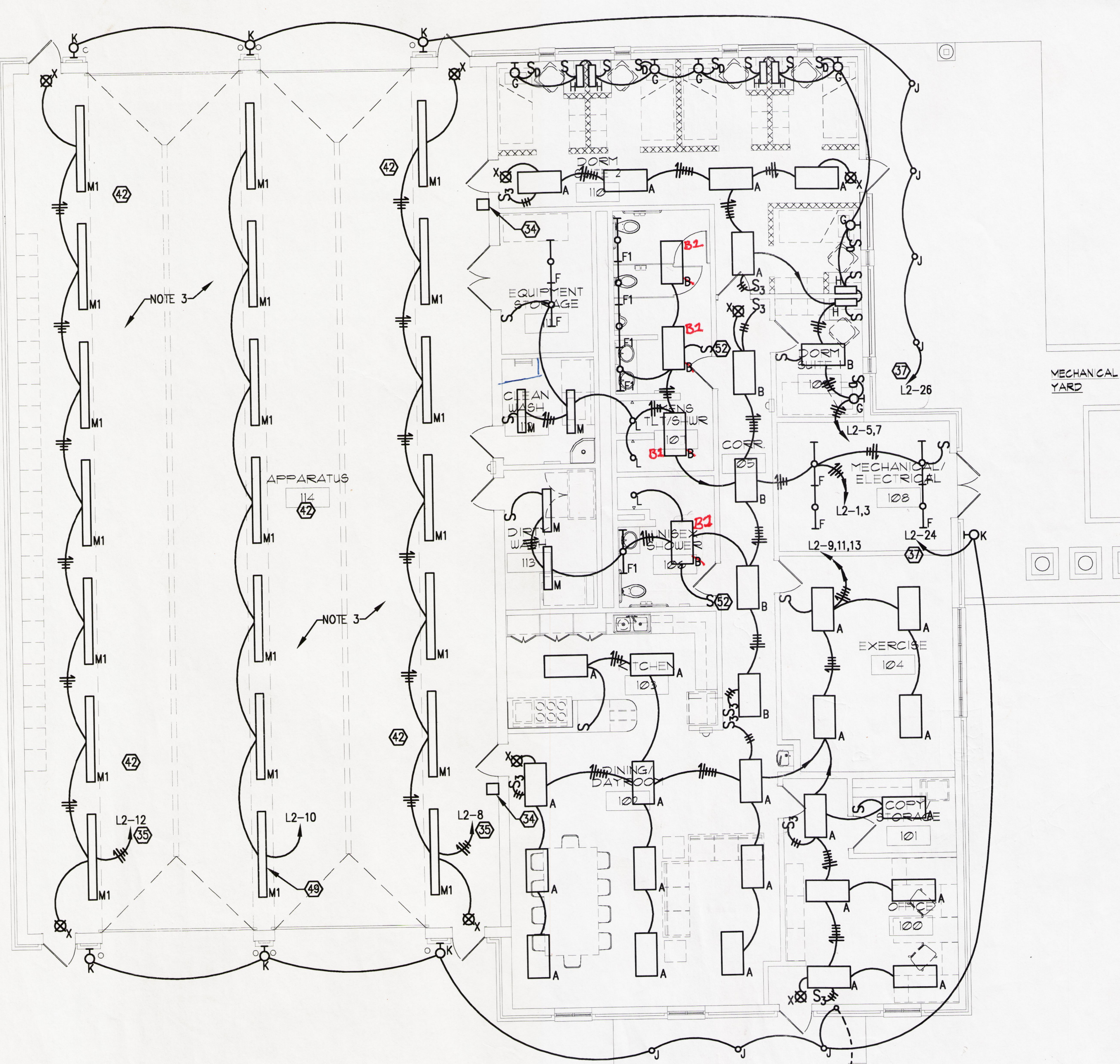
- NOTES:**
1. PROVIDE FUSES IN ALL DISCONNECT SWITCHES SERVING DIVISION 15 EQUIPMENT AND INDICATED AS "FUSE". FUSES SHALL BE SIZED PER THE MAXIMUM FUSE SIZE RATING IN THE NAMEPLATE DATA.
 2. COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
 3. ALL DEVICES AND CONDUITS IN THE BAYS SHALL BE INSTALLED A MINIMUM OF 48" AFF. CONDUITS SHALL BE ROUTED CONCEALED IN WALLS FROM OVERHEAD. CONDUITS SHALL NOT BE INSTALLED IN THE SLAB IN THE BAY AREAS.
 4. COORDINATE EXACT LOCATION OF LIGHTING FIXTURES IN THE CEILING GRID WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
 5. PROVIDE 3000 PSI CONCRETE PAD FOR GENERATOR. PAD SHALL BE 12" THICK WITH A 4" PROJECTION ABOVE GRADE, AND SHALL EXTEND 24" FROM THE GENERATOR HOUSING ON ALL FOUR SIDES. PROVIDE #4 REBAR TIES ON 12" CENTERS IN BOTH DIRECTIONS IN THE PAD.
 6. ALL MECHANICAL EQUIPMENT WILL BE PROVIDED WITH STARTERS WHICH ARE PROVIDED BY DIVISION 15. ELECTRICAL CONTRACTOR SHALL WIRE THE EQUIPMENT THROUGH THE STARTERS PER THE STARTER MANUFACTURER'S DIRECTION.
 7. PROVIDE WEATHER PROOF COVERS ON THE FIRE ALARM PULL STATIONS IN THE APPARATUS BAYS.



3 MECHANICAL/ELECTRICAL ROOM
E1.1 SCALE: 1/4" = 1'-0"

KEYNOTES:

- KEYNOTES:**
- (1) 4"x8"x3/4" FIRE RATED FLYWOOD TELEPHONE/DATA BACKBOARD. PROVIDE 6' COIL OF #6 COPPER GROUND WIRE BONDED TO PANEL "L1" GROUND BUS.
 - (2) PROVIDE EMERGENCY PHONE IN FLUSH MOUNTED ENCLOSURE AT 48" AFF. ENCLOSURE SHALL BE PROVIDED WITH A HINGED DOOR. PHONE SHALL AUTOMATICALLY DIAL 911 WHEN THE HAND SET IS PICKED UP. PROVIDE RED ENGRAVED LAMINATE SIGN ABOVE THE PHONE WITH 1" LETTERS READING "EMERGENCY PHONE". ROUTE 1" CW WITH PULL WIRE TO TELEPHONE BACKBOARD.
 - (3) DOOR BELL PUSH BUTTON AT 48" AFF.
 - (4) DOOR BELL CHIME AT 80" AFF.
 - (5) GENERATOR ANNUNCIATOR PANEL. ROUTE SIGNAL WIRING IN 1" CONDUIT TO ATS.
 - (6) FIRE ALARM CONTROL PANEL (FACP).
 - (7) MAKE CONNECTION TO GAS RANGE CONTROLS.
 - (8) MAKE CONNECTION TO RANGE HOOD.
 - (9) OUTLET BELOW COUNTER FOR ICE MACHINE.
 - (10) OUTLET BELOW COUNTER FOR DISH WASHER.
 - (11) MAKE CONNECTION TO DISPOSAL.
 - (12) ROUTE GENERATOR CONTROL WIRING IN 1" CONDUIT TO ATS.
 - (13) MAKE CONNECTION TO GENERATOR BLOCK HEATER AND CONTROL PANEL.
 - (14) MAKE CONNECTION TO GENERATOR BATTERY CHARGER MOUNTED IN BOTTOM OF ATS ENCLOSURE.
 - (15) MAKE CONNECTION TO ROLL UP DOOR MOTOR. ROUTE CONTROL WIRING IN CONDUIT TO THE PUSH BUTTON CONTROLLER AS INDICATED.
 - (16) PROVIDE SWITCH TO DISABLE EXTERIOR SPEAKER AFTER HOURS.
 - (17) PROVIDE HUBBELL CPC-12320-SC CORD REEL WITH A NEMA 5-20R CONNECTOR. CORD REEL SHALL BE MOUNTED SECURELY TO STRUCTURE. PROVIDE KELLEMS GRIPS ON END OF CORD. PROVIDE STOP ON CORD REEL TO PREVENT CORD FROM BEING RETRACTED ABOVE 7'-0".
 - (18) SUBSCRIPT "S" INDICATES SPEAKER AND SUPPORT BRIDGE MOUNTED IN SURFACE MOUNTED BACKBOX AT STRUCTURE.
 - (19) PROVIDE 12"x12"x4" INTERCOM/PAGING SYSTEM PULL BOX BEHIND THE AMPLIFIER. MOUNT BOX AT 36" AFF. STUB (2") 2" CONDUITS UP TO CEILING SPACE.
 - (20) MOUNT FIRE ALARM HORN/STROBE ON THE CEILING.
 - (21) PROVIDE SINGLE POLE MANUAL STARTER AND MAKE CONNECTION TO GAS WATER HEATER.



2 LIGHTING PLAN
E1.1 SCALE: 1/8" = 1'-0"


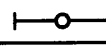


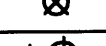

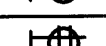
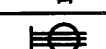


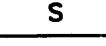
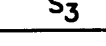
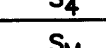
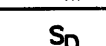
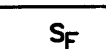





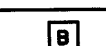
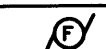



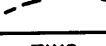
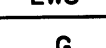
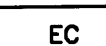


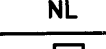
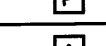

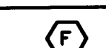
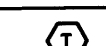
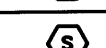
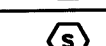
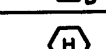
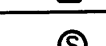
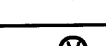
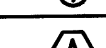
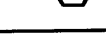
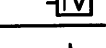
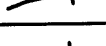






22. PROVIDE SINGLE POLE MANUAL STARTER AND MAKE CONNECTION TO EXTRACTOR.
23. PROVIDE 30A/3P/FUSE DISCONNECT SWITCH AND MAKE CONNECTION TO EXTRACTOR.
24. PROVIDE TIME CLOCK FOR CONTROL OF ELECTRONIC TRAP PRIMERS.
25. MAKE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
26. ROUTE HOMERUN THROUGH TRAP PRIMER TIME CLOCK (SEE KEYNOTE 24).
27. 30A/3P/FUSE/RT DISCONNECT SWITCH.
28. PROVIDE 30A/2P/FUSE DISCONNECT SWITCH AND MAKE CONNECTION TO ELECTRIC HEATER.
29. 30A/3P/FUSE DISCONNECT SWITCH.
30. 30A/3P/FUSE/RT DISCONNECT SWITCH AT ROOF TOP EXHAUST FAN.
31. PROVIDE SINGLE POLE MANUAL STARTER AND MAKE CONNECTION TO MOTORIZED LOUVER. LOUVER TO BE CONTROLLED BY DIVISION 15.
32. PROVIDE DUPLEX GFCI OUTLET IN ATTIC FOR DEHUMIDIFIER.
33. PROVIDE 4-POLE E.O.M.H. LIGHTING CONTACTOR FOR CONTROL OF LIGHTING FIXTURES IN THE APPARATUS BAYS. CONTACTOR SHALL BE CONTROLLED BY TWO MOMENTARY SWITCHES INDICATED IN KEYNOTE 34.
34. PROVIDE MOMENTARY TOGGLE SWITCH FOR CONTROL OF THE BAY LIGHTING CONTACTOR INDICATED IN KEYNOTE 33. ROUTE CONTROL WIRING FROM THE MOMENTARY SWITCH TO THE CONTACTOR.
35. ROUTE HOMERUN THROUGH THE APPARATUS BAY LIGHTING CONTACTOR INDICATED IN KEYNOTE 33. PROVIDE UNSWITCHED HOT LEGS, NOT CONTROLLED BY THE CONTACTOR, TO FEED EXIT SIGNS AS INDICATED.
36. PROVIDE 8-POLE E.O.M.H. CONTACTOR FOR CONTROL OF EXTERIOR LIGHTING CIRCUITS. PROVIDE PHOTOCELL ON ROOF FOR CONTROL OF CONTACTOR.
37. ROUTE HOMERUN THROUGH THE EXTERIOR LIGHTING CONTACTOR INDICATED IN KEYNOTE 36.
38. 30A/2P/FUSE DISCONNECT SWITCH FOR ICE MAKER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH THE OWNER PRIOR TO ROUGH-IN.
39. PROVIDE MONITOR MODULE AND INTERLOCK HOOD FIRE SUPPRESSION SYSTEM WITH THE FIRE ALARM SYSTEM.
40. PROVIDE CIRCUIT FROM L2-27 AND MAKE CONNECTION TO OUTSIDE AIR DAMPER. CIRCUIT SHALL SERVE DAMPERS AT ALL THREE FAN COIL UNITS.
41. MAKE CONNECTION TO PL AMPLIFIER PANEL. COORDINATE ROUGH-IN AND CONNECTION TYPE WITH SYSTEM MANUFACTURER.
42. PROVIDE MOTION DETECTOR MOUNTED AT STRUCTURE FOR CONTROL OF THE MIDDLE ROW OF LIGHTING FIXTURES IN THE APPARATUS BAYS (SEE KEYNOTE 49). DETECTORS SHALL BE WIRED IN PARALLEL PER THE MANUFACTURER'S WIRING DIAGRAMS WITH CONTROL WIRING RUN IN CONDUIT TO THE CONTACTOR CONTROLLING THE LIGHTING CIRCUIT (SEE KEYNOTE 49). MOTION DETECTORS SHALL BE INFRARED TYPE WITH ADJUSTABLE SHUT-OFF FROM 15 SECONDS TO 30 MINUTES. SET SHUT-OFFS TO 20 MINUTES. THE MOTION DETECTOR POWER PACKS TO LOCAL RECEPTACLE CIRCUITS. DETECTORS SHALL BE WATT STOPPER C1-205-1 OR EQUAL AND SHALL BE DESIGNED FOR USE AT THE STRUCTURE HEIGHT.
43. 60A/3P/FUSE DISCONNECT SWITCH FOR DRYING CABINET.
44. PROVIDE 30A/1P/FUSE DISCONNECT SWITCH AT STRUCTURE AND MAKE CONNECTION TO AIR SCRUBBER. COORDINATE AIR SCRUBBER LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
45. 600A/3P/500AF MAIN DISCONNECT SWITCH. SEE RISER DIAGRAM.
46. PROVIDE (2) TOGGLE SWITCHES MOUNTED IN A 2-GANG BOX AT 48" AFF FOR CONTROL OF HOOD LIGHTS AND FAN. FAN SWITCH SHALL BE PROVIDED WITH A PILOT LIGHT. ROUTE CONTROL WIRING IN CONDUIT FROM THE SWITCHES TO THE FAN AND LIGHT CONNECTIONS.
47. PROVIDE HUBBELL CPC-12320-SC CORD REEL WITH A NEMA 5-20R CONNECTOR. CORD REEL SHALL BE MOUNTED SECURELY TO STRUCTURE. PROVIDE KELLEMS GRIPS ON END OF CORD. PROVIDE STOP ON CORD REEL TO PREVENT CORD FROM BEING RETRACTED ABOVE 7'-0".
48. EXTEND TO LIGHT AT THE FLAG POLE. SEE SHEET E1.0.
49. THE CENTER ROW OF LIGHTING FIXTURES IN THE APPARATUS BAYS SHALL BE CONTROLLED BY MOTION DETECTORS INDICATED IN KEYNOTE 42. PROVIDE A CONTACTOR AT STRUCTURE ABOVE THE HOMERUN FIXTURE FOR ON/OFF CONTROL OF THE CIRCUIT BY THE DETECTORS.
50. PROVIDE A 2" EMPTY CONDUIT WITH PULL WIRE FROM ABOVE THE CEILING OF COPY/STORAGE ROOM 101 TO THE TELEPHONE BACKBOARD. TURN CONDUIT DOWN AND TERMINATE AT THE WIRE OF CONDUIT BACKBOARD. PROVIDE INSULATING BUSHINGS ON BOTH ENDS OF CONDUIT.
51. PROVIDE A TOGGLE SWITCH FOR CONTROL OF THE SHOWER/TOILET EXHAUST FAN. MOUNT THE SWITCH IN A 2-GANG BOX WITH THE LIGHT SWITCH AND PROVIDE A COMMON COVER PLATE. ROUTE CONTROL WIRING IN CONDUIT FROM THE FAN SWITCH TO THE EXHAUST FAN.
52. MOUNT SWITCH IN 2-GANG BOX WITH EXHAUST FAN SWITCH. SEE KEYNOTE 51.
53. MOUNT CATV OUTLET AND DUPLEX RECEPTACLE AT 80" AFF.
54. PROVIDE RETRACTABLE CORD REEL AT STRUCTURE FOR ROLL UP DOOR SENSOR CONTROL CABLING. PROVIDE 1/2" EMPTY CONDUIT WITH PULL WIRE FROM THE CORD REEL TO THE DOOR MOTOR FOR INSTALLATION OF CABLING BY THE DOOR INSTALLER. COORDINATE THE EXACT LOCATION AND INSTALLATION OF THE CORD REELS WITH THE ARCHITECT AND DOOR INSTALLER.
55. PROVIDE TOGGLE SWITCH FOR CONTROL OF EXHAUST FAN EF-1. ROUTE CONTROL WIRING IN CONDUIT FROM THE SWITCH TO THE FAN.

provide three type "F" strip lighting fixtures and two duplex receptacles on the mechanical mezzanine. The fixtures shall be evenly spaced, and one receptacle shall be mounted at each end of the mezzanine.

Provide 2 #12^W 1#12^W 1/2" to circuit the fixtures and devices from a spare 20A/1P circuit breaker in panel 24". Provide a toggle switch with pilot light wall mounted at the bottom of the ladder to the mezzanine.

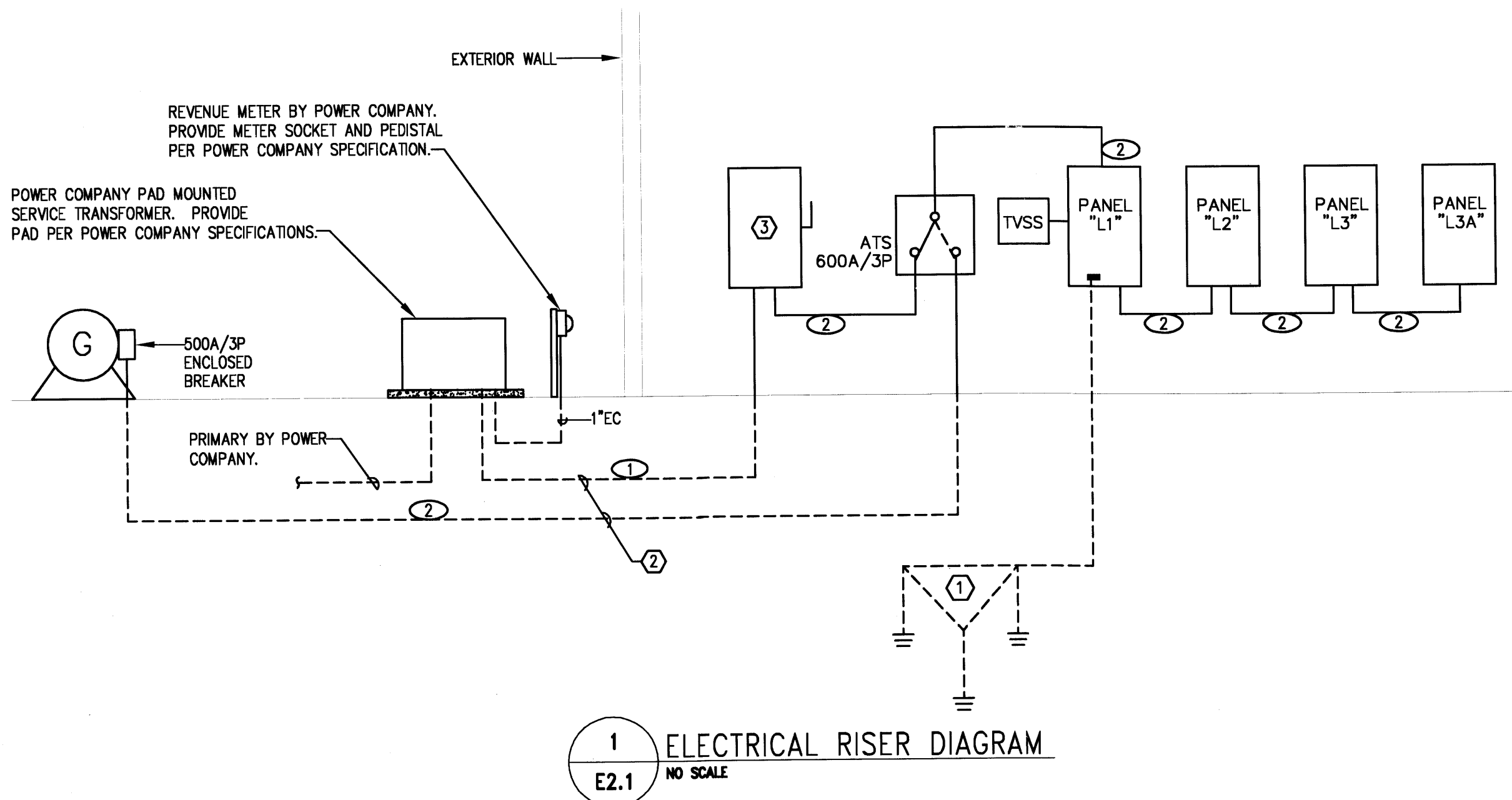
COPYRIGHT © 2012 BY A. L. RIGGS, JR. & SONS, INC. ALL RIGHTS RESERVED. NO PART OF THIS PUBLICATION MAY BE REPRODUCED OR TRANSMITED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM A. L. RIGGS, JR. & SONS, INC.

SYMBOL SCHEDULE

	LIGHTING FIXTURE - FLUORESCENT
	LIGHTING FIXTURE - BARE LAMP STRIP OR INDUSTRIAL STRIP
	LIGHTING FIXTURE - INCAND., HID, OR FLUOR RECESSED OR SURFACE
	LIGHTING FIXTURE - INCAND., HID, OR FLUOR WALL OR BRACKET MOUNTED
	EXIT LIGHT WITH DIRECTIONAL CHEVRONS
	RECEPT MOUNTED ABOVE COUNTERTOP BACKSPLASH (NORMAL, GFI, OR IG AS INDICATED)
	15A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5-15R DUPLEX RECEPT.
	15A, 125V, 2 POLE, 3 WIRE, GROUNDING, NEMA 5-15R DOUBLE DUPLEX RECEPT.
	3CA, 125/250V, 3 POLE, 3 WIRE, NEMA 10-30R SINGLE REC. (DRYER OUTLET)
	DUPLEX RECEPTACLE WITH GROUND FAULT CURRENT INTERRUPTER
	SPECIAL OUTLET - AS INDICATED
	TOGGLE SWITCH, SINGLE POLE
	TOGGLE SWITCH, THREE-WAY
	TOGGLE SWITCH, FOUR WAY
	TOGGLE SWITCH, MOTOR RATED WITH THERMAL OVERLOAD ELEMENT
	SLIDE TYPE DIMMER SWITCH - 1000W (MINIMUM) OR SIZE AS INDICATED
	ROTARY FAN SPEED CONTROLLER
	DATA OUTLET WITH 1" C AND PULLWIRE TO ABOVE CEILING
	TELEPHONE OUTLET WITH 3/4" EC HOMERUN TO TELEPHONE BACKBOARD
	120/208 VOLT PANELBOARD AS SCHEDULED
	TELEPHONE BACKBOARD
	JUNCTION BOX
	DISCONNECT OR SAFETY SWITCH, SIZE AS INDICATED ON THE DRAWINGS
	DOOR BELL CHIME
	MOTOR, # = HORSEPOWER, F = FRACTIONAL
	CONDUIT RUN UP OR DOWN
	CONDUIT, HOMERUN (CROSS MARKS = # OF CONDUCTORS WHERE MORE THAN THREE)
	CONDUIT CONCEALED OVERHEAD IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES (U.N.O.)
	CONDUIT EMBEDDED IN THE SLAB OR BELOW GRADE.
	OUTLET FOR ELECTRIC WATER COOLER MOUNTED CONCEALED BEHIND UNIT
	GROUND
	EMPTY CONDUIT
	WEATHERPROOF
	RAINTIGHT (NEMA 3R)
	NIGHT LIGHT (CONNECTED TO UNSWITCHED CIRCUIT)
	FIRE ALARM MANUAL STATION
	FIRE ALARM AUDIO ALARM
	FIRE ALARM VISUAL STROBE
	FIRE ALARM FLOW SWITCH
	FIRE ALARM TAMPER SWITCH
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
	FLUSH CEILING MOUNTED INTERCOM PAGING SPEAKER COMPLETE WITH BACKBOX AND SUPPORT BRIDGE. SPEAKER AND ACCESSORIES SHALL BE BY BOGEN.
	SPEAKER VOLUME CONTROL BY BOGEN MOUNTED 48" AFF.
	PAGING SYSTEM MIXER/AMPLIFIER. BOGEN TPU/100B. PROVIDE DESK TYPE PAGING MICROPHONE.
	TELEVISION OUTLET BOX WITH 3/4" CONDUIT STUBBED ABOVE CEILING
	ONE PHASE CONDUCTOR
	ONE PHASE NEUTRAL CONDUCTOR
	ONE PHASE EQUIPMENT GROUNDING CONDUCTOR

LIGHTING FIXTURE SCHEDULE

- A - TWO FOOT BY FOUR FOOT FLUORESCENT TROFFER, SPECIFICATION GRADE, ELECTRONIC BALLAST, A12/125 LENS, 120 VOLTS, 4" NOMINAL DEPTH, FOUR F32T8/3500K LAMPS. LITHONIA 2SP8 SERIES OR EQUAL BY COOPER OR HUBBELL.
- B - TWO FOOT BY FOUR FOOT FLUORESCENT TROFFER, SPECIFICATION GRADE, ELECTRONIC BALLAST, A12/125 LENS, 120 VOLTS, 4" NOMINAL DEPTH, TWO F32T8/3500K LAMPS. LITHONIA 2SP8 SERIES OR EQUAL BY COOPER OR HUBBELL.
- B1 - TWO FOOT BY FOUR FOOT FLUORESCENT TROFFER, SPECIFICATION GRADE, ELECTRONIC BALLAST, A12/125 LENS, 120 VOLTS, 4" NOMINAL DEPTH, FLANGE MOUNTED IN GWB CEILING. TWO F32T8/3500K LAMPS. LITHONIA 2SP8 SERIES OR EQUAL BY COOPER OR HUBBELL.
- C - ONE FOOT BY FOUR FOOT FLUORESCENT TROFFER, SPECIFICATION GRADE, ELECTRONIC BALLAST, A12/125 LENS, 120 VOLTS, 4" NOMINAL DEPTH, FLANGE MOUNTED IN GWB CEILING. TWO F32T8/3500K LAMPS. LITHONIA 2SP8 SERIES OR EQUAL BY COOPER OR HUBBELL.
- D - PL FLUORESCENT DOWNLIGHT, 8" OPEN APERTURE, CLEAR ALZAK REFLECTOR, 120 VOLTS, ELECTRONIC BALLAST, VERTICALLY MOUNTED 42W TRI-TUBE LAMP. LITHONIA AFV SERIES OR EQUAL BY COOPER OR HUBBELL.
- F - FOUR FOOT FLUORESCENT STRIP, 120 VOLTS, ELECTRONIC BALLAST, TWO F32T /3500K LAMPS, WRE GUARD. CHAIN MOUNTED IN AREAS WITH EXPOSED STRUCTURE. LITHONIA C240 SERIES OR EQUAL BY COOPER OR HUBBELL.
- F1 - FOUR FOOT FLUORESCENT STRIP, 120 VOLTS, ELECTRONIC BALLAST, TWO F32T8/3500K LAMPS. LITHONIA C240 SERIES OR EQUAL BY COOPER OR HUBBELL. MOUNT FIXTURE IN ARCHITECTURAL COVE.
- G - INCANDESCENT WALL SCONCE ALUMINUM OVAL HOUSING, 11" WIDTH, 6.75" HEIGHT, FINISH AS SELECTED BY ARCHITECT, FROSTED GLASS DIFFUSER, HORIZONTAL EYELED WITH GRILL, 120 VOLTS, 100W A-19 LAMP. TIRON BEOC SERIES. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- H - UNDER CABINET TASK LIGHT, TWO FOOT LENGTH, SHATTER RESISTANT LENS, WHITE HOUSING, ELECTRONIC BALLAST, 120 VOLTS, ONE F17T8/3500K LAMP. LITHONIA 2UC SERIES OR EQUAL BY COOPER OR HUBBELL.
- J - EXTERIOR H.I.D. DOWNLIGHT, 9" APERTURE, REGRESSED WHITE DOOR, FLAT FRESNEL LENS, 120 VOLTS, WET LOCATION, SINGLE FUSE, 100W METAL HALIDE LAMP. LITHONIA LGH SERIES OR EQUAL BY COOPER OR HUBBELL.
- K - EXTERIOR WALL MOUNTED FIXTURE, OVAL DIE CAST ALUMINUM HOUSING, VERTICAL MOUNTING, MOLDED GLASS DIFFUSER, DIE CAST ALUMINUM GUARD, HOUSING AND GUARD FINISH AS SELECTED BY ARCHITECT, GASKETED FOR WET LOCATION LISTING, 120 VOLTS, (2) 13W PL LAMPS. BEGA #2893P. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- L - PL FLUORESCENT SHOWER FIXTURE DOWNLIGHT, 9" APERTURE, DROP OPAL LENS, LISTED FOR WET LOCATIONS, 120 VOLTS, 42W VERTICAL TRI-TUBE LAMP. LITHONIA LGV SERIES OR EQUAL BY COOPER OR HUBBELL.
- M - FOUR FOOT ENCLOSED FLUORESCENT STRIP, IMPACT RESISTANT POLYESTER HOUSING, ACRYLIC DIFFUSER, GASKETED, LISTED FOR DAMP LOCATIONS, ELECTRONIC BALLAST, 120 VOLTS, TWO F32T8/3500K LAMPS. LITHONIA DM SERIES OR EQUAL BY COOPER OR HUBBELL.
- M1 - EIGHT FOOT ENCLOSED FLUORESCENT STRIP, IMPACT RESISTANT POLYESTER HOUSING, ACRYLIC DIFFUSER, GASKETED, LISTED FOR DAMP LOCATIONS, ELECTRONIC BALLAST, 120 VOLTS, TWO 95W F96T8H/3500K LAMPS. LITHONIA DM SERIES OR EQUAL BY COOPER OR HUBBELL.
- N - GRADE MOUNTED FLOOD LIGHT, BRONZE HOUSING, 180/360 ROTATION KNUCKLE MOUNT, 120 VOLTS, 35W METAL HALIDE LAMP. HYDRELL 7000 SERIES. PROVIDE SETBACK AS RECOMMENDED BY THE FIXTURE MANUFACTURER.
- P - FOUR FOOT ENCLOSED FLUORESCENT STRIP, HIGH IMPACT REINFORCED POLYESTER FIBERGLASS HOUSING, SHATTER RESISTANT ACRYLIC DIFFUSER, GASKETED, LISTED FOR DAMP LOCATION, CORROSION RESISTANT CAM LATCHES, ZERO DEGREE ELECTRONIC BALLAST, 120 VOLTS, TWO F32T8/3500K LAMPS. LITHONIA DM SERIES OR EQUAL BY COOPER OR HUBBELL.
- Q - PREMIUM CUT-OFF SHOE BOX TYPE SITE LIGHTING FIXTURE, EXTRUDED ALUMINUM HOUSING, CORROSION RESISTANT HARDWARE, SEGMENTED REFLECTOR, ARM MOUNTED, TYPE 3 DISTRIBUTION, DOUBLE FUSE, 208 VOLTS, 400W METAL HALIDE LAMP, 4"x4"x16" STRAIGHT SQUARE STEEL POLE. VISIONAIRE AMERICAN SERIES OR EQUAL BY COOPER OR HUBBELL. POLE SHALL BE PROVIDED WITH A WEATHER PROOF OUTLET BOX AT 12" ABOVE THE MOUNTING BASE PLATE.
- Q1 - PREMIUM CUT-OFF SHOE BOX TYPE SITE LIGHTING FIXTURE, EXTRUDED ALUMINUM HOUSING, CORROSION RESISTANT HARDWARE, SEGMENTED REFLECTOR, ARM MOUNTED, TYPE 4 DISTRIBUTION, DOUBLE FUSE, 208 VOLTS, 400W METAL HALIDE LAMP, 4"x4"x16" STRAIGHT SQUARE STEEL POLE. VISIONAIRE AMERICAN SERIES OR EQUAL BY COOPER OR HUBBELL. POLE SHALL BE PROVIDED WITH A WEATHER PROOF OUTLET BOX AT 12" ABOVE THE MOUNTING BASE PLATE.
- X - EXIT SIGN, SINGLE FACE, CAST ALUMINUM BODY, RED LED LAMPS AND LETTERS, DIFFUSE FACE, UNIVERSAL MOUNTING, 120 VOLTS, KNOCK-OUT CHEVRONS TO INDICATE DIRECTION OF EGRESS. LITHONIA SIGNATURE SERIES OR EQUAL BY COOPER OR HUBBELL.



NOTES:

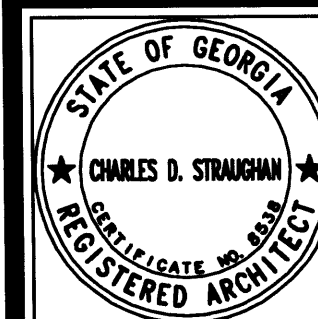
- CONTRACTOR SHALL OBTAIN A LIST OF ROOM NUMBERS FROM THE OWNER, AND INCLUDE BOTH ROOM NUMBERS AND LOADS SERVED IN THE PANEL DIRECTORIES FOR EACH CIRCUIT (IE - RECEPTACLES, ROOM 213).

KEYNOTES:

- RUN (1) #5/0 GROUND TO THREE 3/4" x 10' COPPERCLAD GROUND RODS SPACED TEN FEET APART ON THE EXTERIOR OF THE BUILDING, (1) #5/0 GROUND TO MAIN METAL DOMESTIC WATER LINE, AND (1) #5/0 TO BUILDING STEEL. GROUNDING CONDUCTOR SHALL BE BURIED 24" (MIN.) BELOW GRADE. GROUND RODS SHALL BE DRIVEN SO THAT THEIR TOPS ARE 24" (MIN.) BELOW GRADE.
- NORMAL AND EMERGENCY SERVICE LATERALS SHALL BE ENCASED IN 3200PSI RED DYE CONCRETE ENVELOPE. CONCRETE SHALL PROVIDE 4" (MIN) COVER ON ALL FOUR SIDES. PROVIDE #4 REBAR TIES ON 4 FOOT CENTERS VERTICALLY AND HORIZONTALLY (TOP, BOTTOM, AND BOTH SIDES). PROVIDE CONDUIT SPACERS ON 4 FOOT CENTERS AT ALTERNATE 2 FOOT INTERVALS WITH REBAR.
- 600A/3P/500AF MAIN DISCONNECT SWITCH.

FEEDER LEGEND:

- 1 2 SETS OF 4#250MCM - 2 1/2" EACH
- 2 2 SETS OF 4#250MCM & 1#26 - 2 1/2" EACH



HUSSEY, GAY, BELL & DEYOUNG
INTERNATIONAL, INC. OF GEORGIA
ARCHITECTS
605 GREEN STREET, NE
GAINESVILLE, GEORGIA 30601
TEL: (770) 836-1800
FAX: (770) 836-1804
www.hussey.com



REVISIONS:

DRAWN	DATE	CHECKED
JPJ	MAY 14, 2012	JPJ
JOB NO. 611 1078 03	SCALE: AS NOTED	

FORSYTH COUNTY
FIRE STATION No. 3
FORSYTH COUNTY, GEORGIA
ELECTRICAL SCHEDULES AND RISER

DRAWING NUMBER
E2.1
OF XX

COPYRIGHT © 2012 BY ALL RIGHTS RESERVED. DRAWINGS MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION.

PNL BRD. "L1" NO. OF CKT. SPACES: 42							MAIN DEVICE:							
PP VOLT. 208 AIC RATING: 42,000							TYPE: MLO							
NO. PH. 3 CABINET: SURFACE							SIZE: 600A							
NO.	TA	WS	COND	DESCRIPT	TL	LOAD	NO.	TA	WS	COND	DESCRIPT	TL	LOAD	
1	20/1	12	1/2"	RECEPT	R	1100	2	20/1	12	1/2"	RECEPT	R	1500	
3	20/1	12	1/2"	RECEPT	R	900	4	20/1	12	1/2"	REFRIG	R	1200	
5	20/1	12	1/2"	COOPER	R	1200	6	20/1	12	1/2"	RECEPT	R	1500	
7	20/1	12	1/2"	TELEBKBD	R	800	8	20/1	12	1/2"	DISH W A SHER	R	1200	
9	20/1**	12	1/2"	RECEPT	R	700	10	20/1	12	1/2"	DISPOSAL	R	1200	
11	20/1**	12	1/2"	RECEPT	R	900	12	20/1	12	1/2"	ICE MACHINE	R	1200	
13	20/1	12	1/2"	FACP	O	800	14	20/1*	12	1/2"	HOOD	M	1000	
15	20/1	12	1/2"	RECEPT	R	1100	16	SHUNT TRIP SPACE						
17	20/1	12	1/2"	RECEPT	R	900	18	20/1	12	1/2"	WASHER	M	1200	
19	20/1	12	1/2"	RECEPT	R	1100	20	20/1	12	1/2"	RECEPT	R	700	
21	20/1	12	1/2"	RECEPT	R	1500	22	20/1	12	1/2"	RECEPT	R	700	
23	20/1	12	1/2"	RECEPT	R	1500	24	20/1	12	1/2"	GEN CHGR	O	1200	
25	20/1	12	1/2"	RECEPT	R	1500	26	20/1	12	1/2"	TRAP PRIMER	O	400	
27	20/1	6	1"	STOR. BLDG.	L	1200	28	20/1	12	1/2"	GEN BLK HTR	H	1500	
29	20/1			SPARE			30	20/1	12	1/2"	GEN CNTRLS	O	1200	
31	20/1	8	3/4"	RECEPT	R	400	32	20/1	12	1/2"	EXH FANS	M	1200	
33	20/1	10	1/2"	RECEPT	R	200	34	20/1*	12	1/2"	RANGE	O	800	
35	20/1			SPARE			36	SHUNT TRIP SPACE						
37	20/1			SPARE			38	20/1			SPARE			
39	30/2	10	1/2"	DRYER	H	5000	40	20/1			SPARE			
41	---	---	---	---	---	---	42	20/1			SPARE			
DESCRIPT.							DEMAND							
OTH. PNLS.							115710							
RECEPT.							11500							
LIGHT							1500							
HEAT							6500							
COOL							0							
MOTOR							3400							
OTHER							4400							
SPARE							7700							
CONNLOAD							AMP							
161910							449							
DEMAND							AMP							
150710							418							
NOTES:														
PANEL SHALL BE SERVICE ENTRY RATED.														
PROVIDE FEED THROUGH LUGS TO SERVE PANEL "L2".														
* PROVIDE SHUNT TRIP BREAKER CONTROLLED BY HOOD SUPPRESSION SYSTEM.														
** PROVIDE AFCI TYPE CIRCUIT BREAKER.														

PNL BRD. "L2" NO. OF CKT. SPACES: 42												MAIN DEVICE:			
PP VOLT. 208 AIC RATING: 42,000												TYPE: MLO			
NO. PH. 3 CABINET: SURFACE												SIZE: 600A			
NO.	TA	WS	COND	DESCRIPT	TL	LOAD	NO.	TA	WS	COND	DESCRIPT	TL	LOAD		
1	20/1	12	1/2"	LIGHTING	L	1200	2	20/1			SPARE				
3	20/1	12	1/2"	LIGHTING	L	1500	4	20/1			SPARE				
5	20/1*	12	1/2"	LIGHTING	L	900	6	20/1			SPARE				
7	20/1*	12	1/2"	LIGHTING	L	1000	8	20/1	12	1/2"	LIGHTING	L	1200		
9	20/1	12	1/2"	LIGHTING	L	800	10	20/1	12	1/2"	LIGHTING	L	1200		
11	20/1	12	1/2"	LIGHTING	L	1200	12	20/1	12	1/2"	LIGHTING	L	1200		
13	20/1	12	1/2"	LIGHTING	L	1800	14	20/1	12	1/2"	GUF-1	M	600		
15	20/1	12	1/2"	FC-1	M	900	16	20/1	12	1/2"	GUF-2	M	600		
17	20/1	12	1/2"	FC-2	M	900	18	20/1	12	1/2"	GUF-3	M	600		
19	20/1	12	1/2"	FC-3	M	900	20	20/1	12	1/2"	LOUVERS	M	900		
21	20/1	12	1/2"	WTR.HTR	O	1200	22	20/1			SPARE				
23	20/1	12	1/2"	CIRC PUMP	M	600	24	20/1	10	1/2"	EXT LGT	L	600		
25	20/1	12	1/2"	FWC	R	1200	26	20/1	10	1/2"	EXT LGT	L	600		
27	20/1	12	1/2"	DAMPERS	M	300	28	20/2	6	1"	SITE LIGHTING	L	1000		
29	20/1	12	1/2"	DEHUMID	M	1200	30	---	---	---	---	---	---		
31	20/1	12	1/2"	MOSCAD	O	600	32	20/2	6	1"	SITE LIGHTING	L	1000		
33	20/1			SPARE			34	---	---	---	---	---	---		
35	20/1			SPARE			36	20/1	8	3/4"	RECEPT	R	400		
37				SPARE			38	20/1			SPARE				
39				SPARE			40	20/1			SPARE				
41				SPARE			42	20/1			SPARE				
DESCRIPT.						DF	LOAD		VOLTAGE: 208				DEMAND		
OTH. PNLS.						1	81680		PHASES: 3				81680		
RECEPT.						0.5	1660		SPARE %: 0.2				800		
LIGHT						1.25	15000						18750		
HEAT						1	0						0		
COOL						1	0						0		
MOTOR						1	7500						7500		
OTHER						1	1800						1800		
SPARE						1	5180						5180		
						CONNLOAD		AMP		DEMLOAD				AMP	
						112760		313						115710	
NOTES: PANEL SHALL BE SERVICE ENTRY RATED.														321	
PROVIDE FEED THROUGH LUGS TO SERVE PANEL "L3".															
* PROVIDE AFCI TYPE CIRCUIT BREAKER.															

PNL BRD. "I 3" NO. OF CKT. SPACES: 42							MAIN DEVICE:								
PP VOLT. 208 AIC RATING: 42,000							TYPE: MLO								
NO. PH. 3 CABINET: SURFACE							SIZE: 600A								
NO.	TA	WS	COND	DESCRIPT	TL	LOAD	NO.	TA	WS	COND	DESCRIPT	TL	LOAD		
1	30/3	10	1/2"	CU-1	C	7000	2	30/3	10	1/2"	EXTRACTOR	M	6200		
3	---	---	---	---	---	---	4	---	---	---	---	---	---		
5	---	---	---	---	---	---	6	---	---	---	---	---	---		
7	30/3	10	1/2"	CU-2	C	5900	8	20/3	12	1/2"	CU-3	C	3700		
9	---	---	---	---	---	---	10	---	---	---	---	---	---		
11	---	---	---	---	---	---	12	---	---	---	---	---	---		
13	20/3	12	1/2"	EF-4	M	2800	14	20/3*	12	1/2"	SF-6	M	1300		
15	---	---	---	---	---	---	16	---	---	---	---	---	---		
17	---	---	---	---	---	---	18	---	---	---	---	---	---		
19	20/1*	12	1/2"	EF-5	M	1200	20	20/1	12	1/2"	REFRIG	R	1200		
21	---	---	---	SHUNT TRIP SPACE	---	---	22	20/1	12	1/2"	REFRIG	R	1200		
23	20/1	---	---	SPARE	---	---	24	20/1	12	1/2"	REFRIG	R	1200		
25	20/2	12	1/2"	EH-4	H	2000	26	20/3	10	1/2"	FUEL STN	M	2500		
27	---	---	---	---	---	---	28	---	---	---	---	---	---		
29	20/3	10	1/2"	FUEL STN	M	2500	30	---	---	---	---	---	---		
31	---	---	---	---	---	---	32	---	---	---	SPACE	---	---		
33	---	---	---	---	---	---	34	---	---	---	SPACE	---	---		
35	20/1	---	---	SPARE	---	---	36	---	---	---	SPACE	---	---		
37	20/1	---	---	SPARE	---	---	38	---	---	---	SPACE	---	---		
39	20/1	---	---	SPARE	---	---	40	---	---	---	SPACE	---	---		
41	20/1	---	---	SPARE	---	---	42	---	---	---	SPACE	---	---		
DESCRIPT.									DEMAND						
OITH. PNLS.									37040						
RECEPT.							0.5		3600						
LIGHT							1.25		0						
HEAT							1		2000						
COOL							1		16600						
MOTOR							1		16500						
OTHER							1		0						
SPARE							1		7740						
							CONNLOAD		AMP		DEMLOAD			AMP	
							83480		252		81680			227	
NOTES: PANEL SHALL BE SERVICE ENTRY RATED.															
PROVIDE FEED THROUGH LUGS TO SERVE PANEL "L3A"															
* PROVIDE SHUNT TRIP BREAKER CONTROLLED BY THE HOOD SUPPRESSION SYSTEM.															