

SOUTHWEST LOWER LEVEL LIGHTING PLAN
 SCALE: 3/16" = 1'
 NORTH

- NOTES:**
1. FIXTURE TYPES A1, A2, A3, H2, W1 AND W2, ALL 3-LAMP FIXTURES, SHALL BE DOUBLE SWITCHED. ONE SWITCH SHALL CONTROL BOTH OUTER LAMPS, OTHER SWITCH SHALL CONTROL INNER LAMP.
 2. WHERE 3-WAY SWITCHES ARE CONTROLLING 3-LAMP DOUBLE SWITCHED FIXTURES, 3-WAY SWITCHES SHALL CONTROL OUTER LAMPS.
 3. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF TYPE R FIXTURE.
 4. RECESSED PHOTOCELL SHALL CONTROL 5 TYPE B1 FIXTURES AT VISITORS ENTRANCE ONLY. MOUNT PHOTOCELL ALIGNED WITH AND EVENLY SPACED BETWEEN B1 FIXTURES. PHOTOCELL SHALL BE WIRED IN SERIES WITH WALL SWITCH.
 5. ALL H1 FIXTURES TO BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 7'-6" AFF. H1 FIXTURES LOCATED IN ROOM 142 SHALL BE SPACED 8'-0" O.C., H1 FIXTURES IN ROOM 128 SHALL BE SPACED 7'-4" O.C.
 6. ALL H2 FIXTURES TO BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 8'-0" AFF.
 7. BOTTOM OF TYPE P FIXTURE TO BE 6'-0" AFF.
 8. SHADED PORTION OF CONTINUOUS FIXTURE SHALL BE CONNECTED TO

- 1 THIS FIXTURE INCLUDED ONLY AS AN ALTERNATE BID PER SPECS.
- 2 IN BASE BID, PROVIDE SWITCH WITH PILOT LIGHT AS SHOWN. IN ALTERNATE BID, DELETE THIS SWITCH.
- 3 THIS TYPE B3 FIXTURE SHALL BE INCLUDED IN BASE BID. IN ELEVATOR ALTERNATE BID, THIS FIXTURE SHALL BE DELETED.
- 4 TYPE J2 FIXTURE SHALL NOT BE INCLUDED IN BASE BID. THIS FIXTURE WILL BE INCLUDED IN ALTERNATE BID PER SPECS. J2 FIXTURE SHALL BE CONNECTED TO SAME SWITCH AS DELETED B3 FIXTURES.
- 5 THIS SWITCH NOT INCLUDED IN BASE BID, SWITCH SHALL BE INCLUDED IN ALTERNATE BID ONLY. SWITCH SHALL CONTROL 9 TYPE C1 FIXTURES IN CRAWL SPACE.

NEW DISTRICT 7 HEADQUARTERS
 JOPLIN, MISSOURI

PROJECT # 07-605-0-0001(C) ACCOUNT # 605-68177-9113

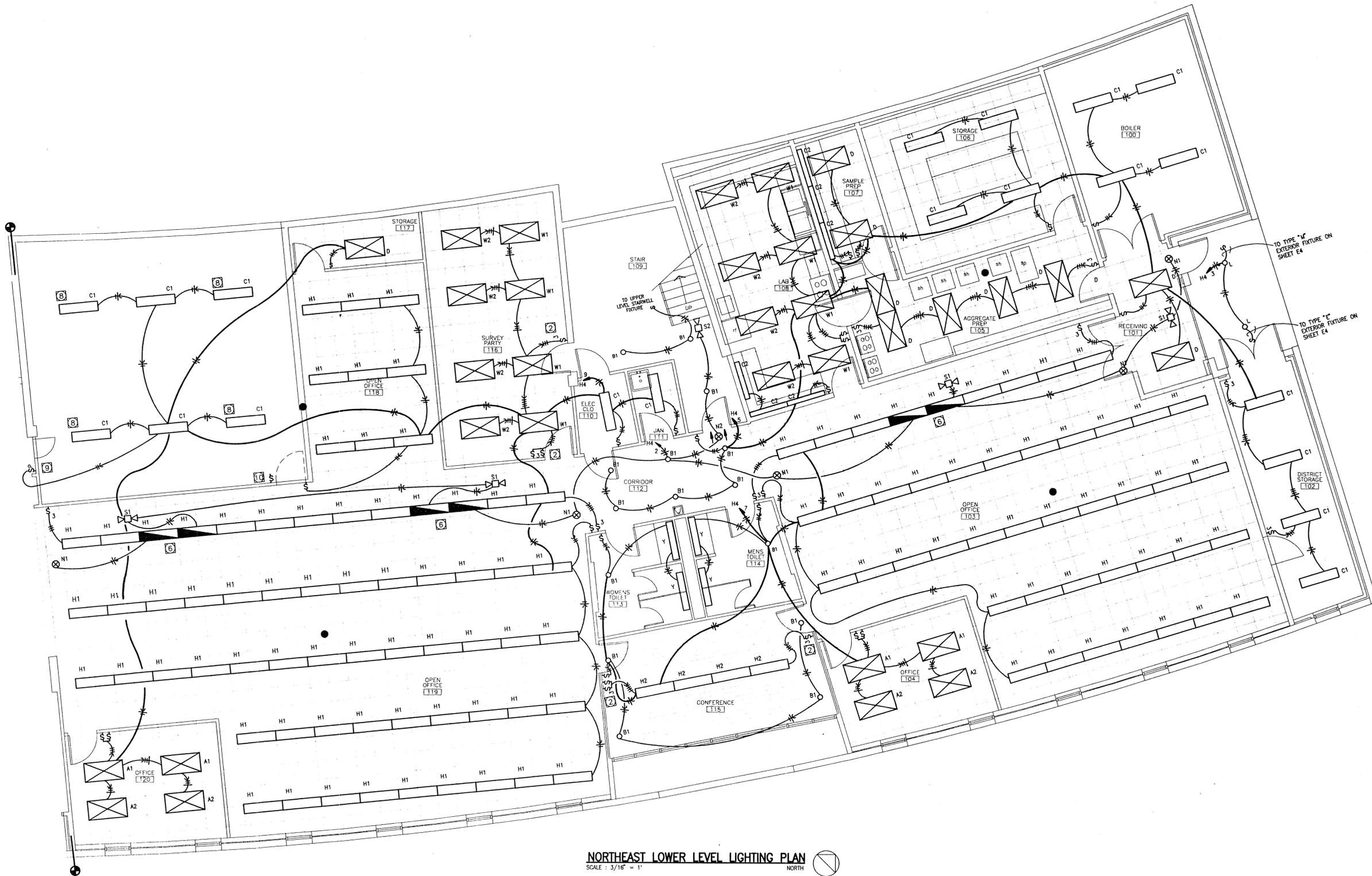
STATE OF MISSOURI
 JOHN ASHCROFT, GOVERNOR
 OFFICE OF ADMINISTRATION

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MECHANICAL & ELECTRICAL DESIGN ENGINEERS AND ENERGY CONSULTANTS
 10333 W. 84TH TERRACE-LENEXA, KANSAS 66214 (913) 894-9720

SOUTHWEST LOWER LEVEL
 LIGHTING PLAN





NORTHEAST LOWER LEVEL LIGHTING PLAN
 SCALE: 3/16" = 1'
 NORTH

- NOTES:
1. FIXTURE TYPES A1, A2, A3, H2, W1 AND W2, ALL 3-LAMP FIXTURES, SHALL BE DOUBLE SWITCHED, ONE SWITCH SHALL CONTROL BOTH OUTER LAMPS, OTHER SWITCH SHALL CONTROL INNER LAMP.
 2. WHERE 3-WAY SWITCHES ARE CONTROLLING 3-LAMP DOUBLE SWITCHED FIXTURES, 3-WAY SWITCHES SHALL CONTROL OUTER LAMPS.
 3. ALL H1 FIXTURES SHALL BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 7'-6" AFF. ALL H1 FIXTURES ON THIS SHEET SHALL BE SPACED 7'-4" O.C.
 4. EXTERIOR LIGHTING CIRCUIT H4-3 SHALL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM. COORDINATE CIRCUIT WIRING INSTALLATION WITH CONTROLS CONTRACTOR.
 5. ALL H2 FIXTURES SHALL BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 8'-0" AFF.
 6. SHADED PORTION OF CONTINUOUS FIXTURE SHALL BE CONNECTED TO CIRCUIT H4-2, AND SHALL NOT BE CONTROLLED BY WALL SWITCH.
 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
 8. THIS FIXTURE INCLUDED ONLY AS AN ALTERNATE BID PER SPECS.
 9. IN BASE BID, PROVIDE SWITCH WITH PILOT LIGHT AS SHOWN, IN ALTERNATE BID, DELETE THE SWITCH.

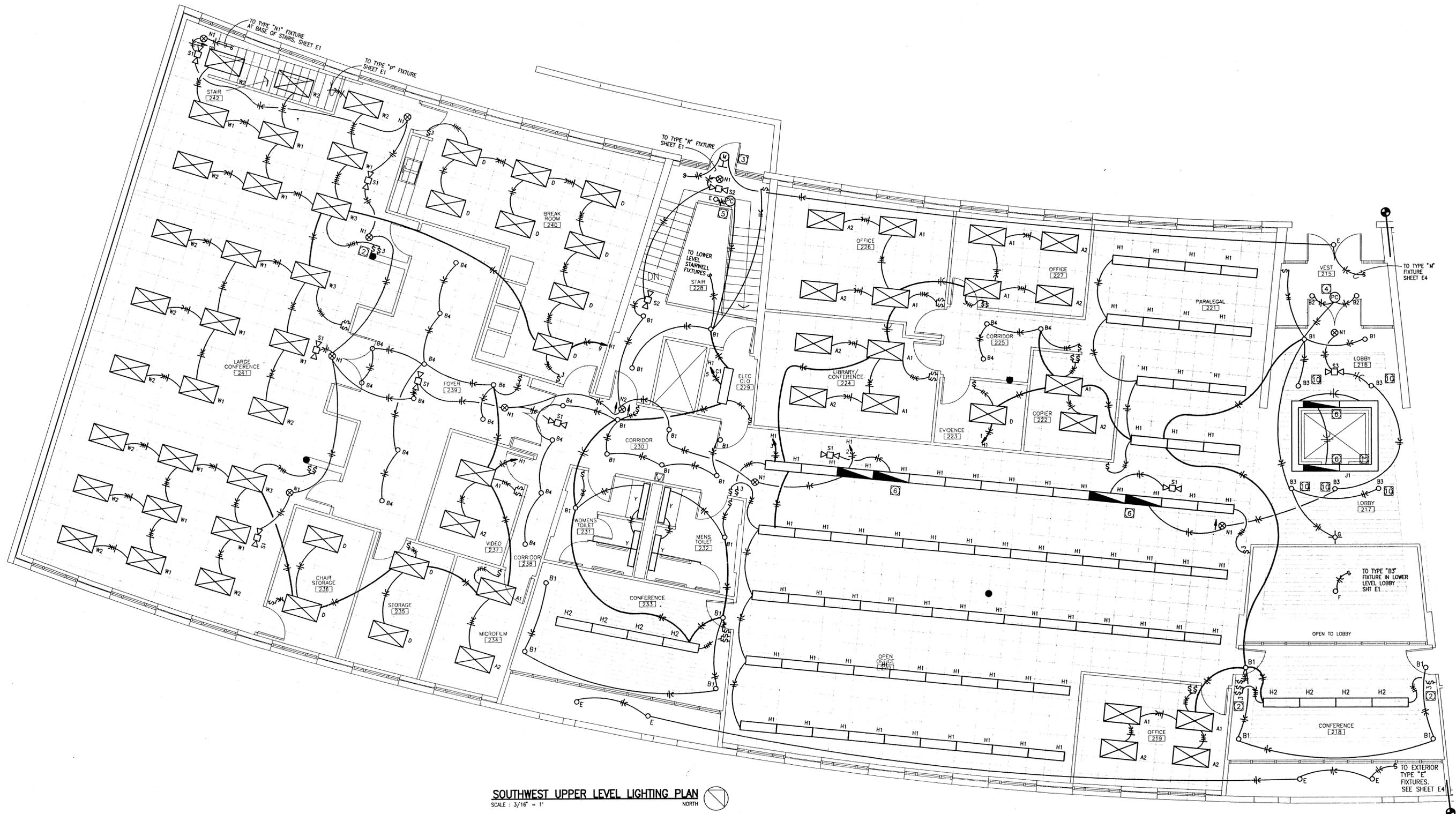
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 NORTHEAST LOWER LEVEL
 LIGHTING PLAN





SOUTHWEST UPPER LEVEL LIGHTING PLAN
 SCALE: 3/16" = 1'
 NORTH

- NOTES:
1. FIXTURE TYPES A1, A2, A3, H2, W1, W2 AND W3, ALL 3-LAMP FIXTURES, SHALL BE DOUBLE SWITCHED, ONE SWITCH SHALL CONTROL BOTH OUTER LAMPS, OTHER SWITCH SHALL CONTROL INNER LAMP.
 2. WHERE 3-WAY SWITCHES ARE CONTROLLING 3-LAMP DOUBLE SWITCHED FIXTURES, 3-WAY SWITCHES SHALL CONTROL OUTER LAMPS.
 3. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF TYPE M FIXTURE.
 4. RECESSED CEILING-MOUNTED PHOTOCELL SHALL CONTROL 2 TYPE B2 FIXTURES ONLY. PHOTOCELL SHALL BE ALIGNED WITH AND CENTERED BETWEEN B2 FIXTURES. PHOTOCELL SHALL BE WIRED IN SERIES WITH WALL SWITCH.
 5. RECESSED CEILING-MOUNTED PHOTOCELL SHALL CONTROL TYPE E FIXTURE ONLY. PHOTOCELL CENTER LINE SHALL BE ALIGNED WITH FIXTURE TYPE E CENTER LINE, AND PHOTOCELL SHALL BE SPACED 2 FT. FROM FIXTURE TYPE E. PHOTOCELL SHALL BE WIRED IN SERIES WITH WALL SWITCH.
 6. SHADED PORTION OF CONTINUOUS FIXTURE SHALL BE CONNECTED TO CIRCUIT H1-2, AND SHALL NOT BE CONTROLLED BY WALL SWITCH. IN FIXTURE J1 ONLY 4 FT. LAMPS SHALL BE CONNECTED TO CIRCUIT H1-2. THIS NOTE IS APPLICABLE ONLY IF ELEVATOR ALTERNATE BID IS ACCEPTED.
 7. ALL H1 FIXTURES SHALL BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 7'-6" AFF. H1 FIXTURES LOCATED IN TOP HALF OF FLOOR SHALL BE SPACED 6'-0" O.C. H1
1. TYPE J1 FIXTURE SHALL NOT BE INCLUDED IN BASE BID, THIS FIXTURE WILL BE INCLUDED IN ALTERNATE BID PER SPECS. J1 FIXTURE SHALL BE CONNECTED TO SAME SWITCH AS DELETED B3 FIXTURES.

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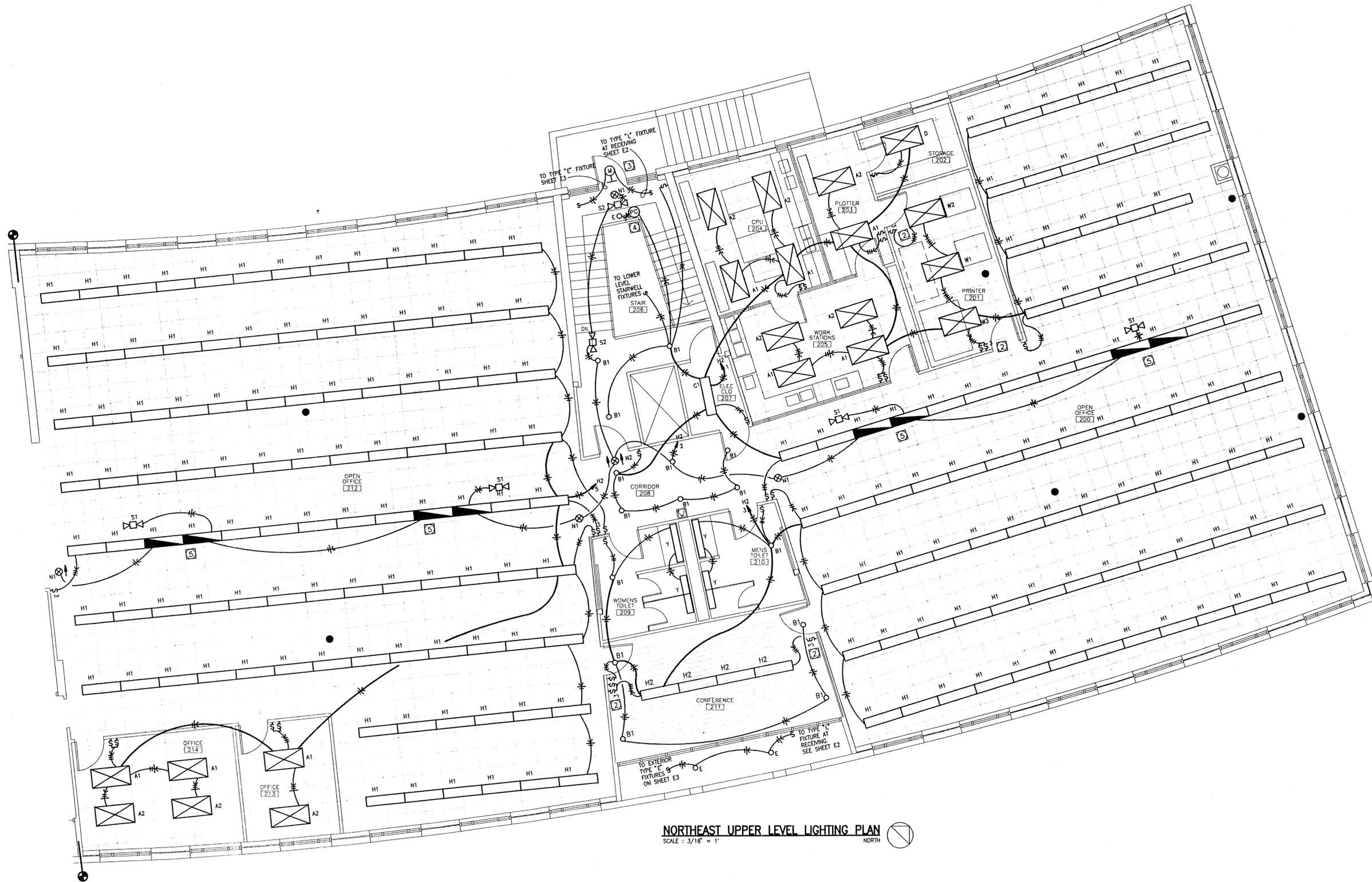
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SOUTHWEST UPPER LEVEL LIGHTING PLAN





NORTHEAST UPPER LEVEL LIGHTING PLAN
 SCALE: 3/16" = 1'
 NORTH

- NOTES:**
1. FIXTURE TYPES A1, A2, A3, H2, W1, W2, AND W3, ALL 3-LAMP FIXTURES, SHALL BE DOUBLE SWITCHED. ONE SWITCH SHALL CONTROL BOTH OUTER LAMPS, OTHER SWITCH SHALL CONTROL INNER LAMP.
 2. WHERE 3-WAY SWITCHES ARE CONTROLLING 3-LAMP DOUBLE SWITCHED FIXTURES, 3-WAY SWITCHES SHALL CONTROL OUTER LAMPS.
 3. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF TYPE M FIXTURE.
 4. RECESSED CEILING-MOUNTED PHOTOCELL SHALL CONTROL FIXTURE TYPE E ONLY. PHOTOCELL CENTER LINE SHALL BE ALIGNED WITH FIXTURE TYPE E CENTER LINE. PHOTOCELL SHALL BE SPACED 2 FT. FROM FIXTURE TYPE E. PHOTOCELL SHALL BE WIRED IN SERIES WITH WALL SWITCH.
 5. SHADED PORTION OF CONTINUOUS FIXTURE SHALL BE CONNECTED TO CIRCUIT H2-2, AND SHALL NOT BE CONTROLLED BY WALL SWITCH.
 6. ALL H1 FIXTURES SHALL BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 7'-6" AFF. H1 FIXTURES IN TOP HALF OF FLOOR SHALL BE SPACED 8'-8" O.C., H1 FIXTURES IN BOTTOM HALF OF FLOOR SHALL BE SPACED 7'-4" O.C.
 7. ALL H2 FIXTURES SHALL BE PENDANT MOUNTED WITH BOTTOM OF FIXTURE 8'-0" AFF.
 8. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHT FIXTURES.

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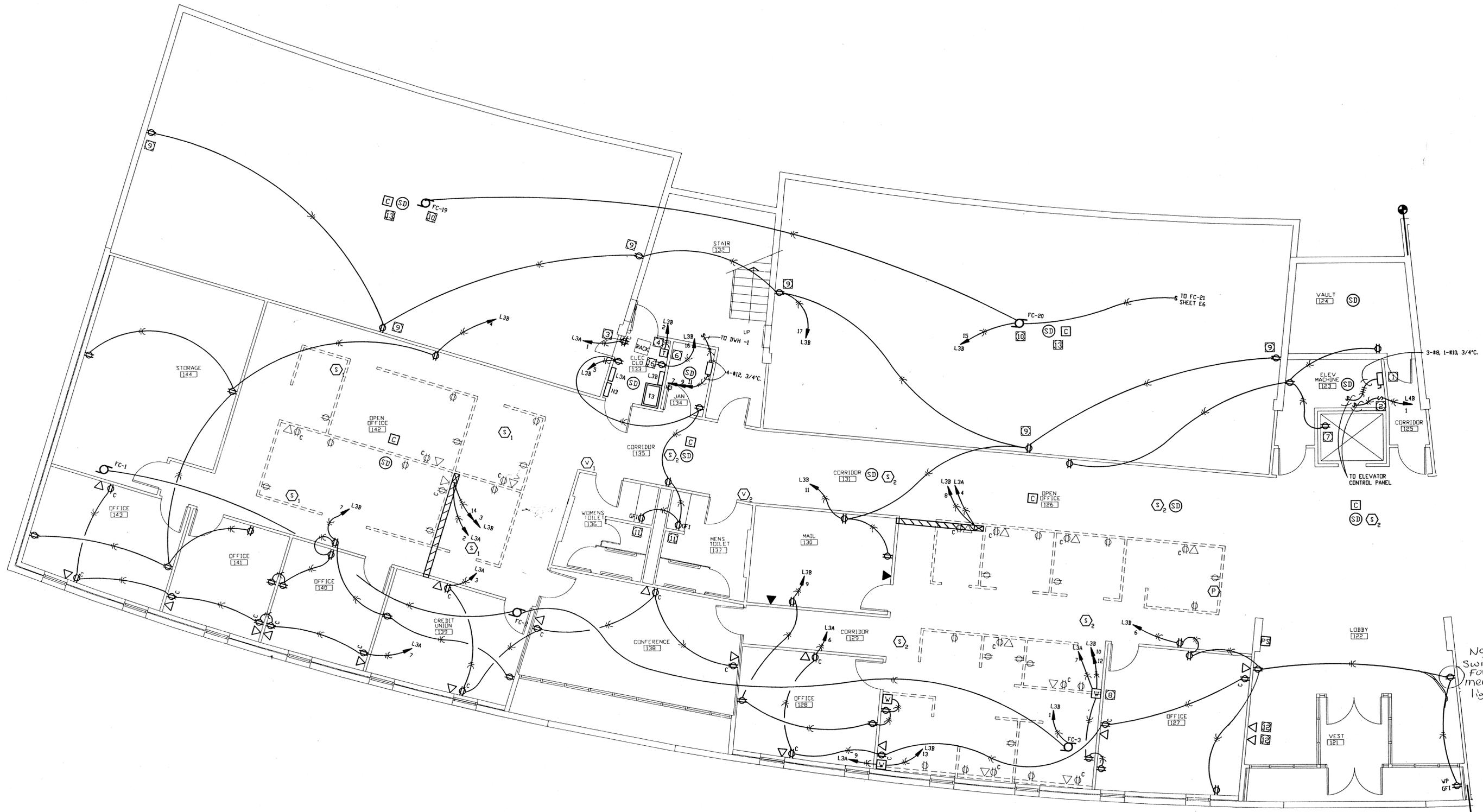
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NORTHEAST UPPER LEVEL
 LIGHTING PLAN





SOUTH WEST LOWER LEVEL POWER WIRING PLAN
 SCALE 3/16" = 1'
 NORTH

- NOTES:**
- COORDINATE LOCATION OF ELEVATOR DISCONNECT WITH ELEVATOR CONTRACTOR.
 - 120 VOLT CIRCUIT FOR ELEVATOR CAR LIGHTS, WITH DISCONNECT SWITCH.
 - COORDINATE LOCATION OF ELECTRICAL EQUIPMENT TO PROVIDE FULL ACCESS TO CRAWL SPACE ACCESS DOOR. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ACCESS DOOR.
 - PROVIDE COMPLETE CONNECTION TO 120/24 VOLT TRANSFORMERS FOR HVAC CONTROLS. COORDINATE QUANTITY AND LOCATION IN ELECTRICAL CLOSET OF TRANSFORMERS WITH CONTROL'S CONTRACTOR. PROVIDE ADDITIONAL CIRCUITS, IF REQUIRED, FROM SPARE CIRCUIT BREAKERS IN PANEL L3B.
 - DATA RACK IN ELECTRICAL CLOSET N.I.C.
 - STUB 2 4" CONDUITS THROUGH WALL AT THIS APPROXIMATE LOCATION. REFER TO EMPTY CONDUIT DETAIL SHEET E10. ROUTE CONDUITS TO AVOID CONFLICTS WITH ALL DUCTS, PIPES, ETC.
 - THIS FAN COIL AND ALL ASSOCIATED WIRING SHALL BE INCLUDED AS AN ALTERNATE BID.
 - MOUNT BOTTOM OF OUTLET 4" ABOVE COUNTERTOP.
 - PAY TELEPHONE OUTLET. COORDINATE LOCATION AND HEIGHT WITH TELEPHONE COMPANY.
 - SMOKE DETECTOR, CHIME AND ALL ASSOCIATED WIRING AND PROGRAMMING SHALL BE INCLUDED AS PART OF THE ALTERNATE BID WHICH INCORPORATES THIS SPACE AS PART OF THE FINISHED BUILDING.
 - ALL ELECTRICAL WORK SHOWN ON FURNITURE SYSTEMS N.I.C. PROVIDE WALL AND FLOOR ELECTRICAL FEEDS TO FURNITURE AS SHOWN. CONNECTIONS TO FURNITURE N.I.C. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF ALL FURNITURE WALL AND FLOOR FEEDS. DIMENSIONED FURNITURE DRAWINGS WILL BE PROVIDED TO CONTRACTOR PRIOR TO INSTALLATION OF WALL AND FLOOR FEEDS. WALL AND FLOOR FEEDS SHALL BE INSTALLED SUCH THAT THEIR APPEARANCE AS MUCH AS POSSIBLE MATCHES THE APPEARANCE OF THE FINISHED BUILDING.

Now Switch For memorial light.



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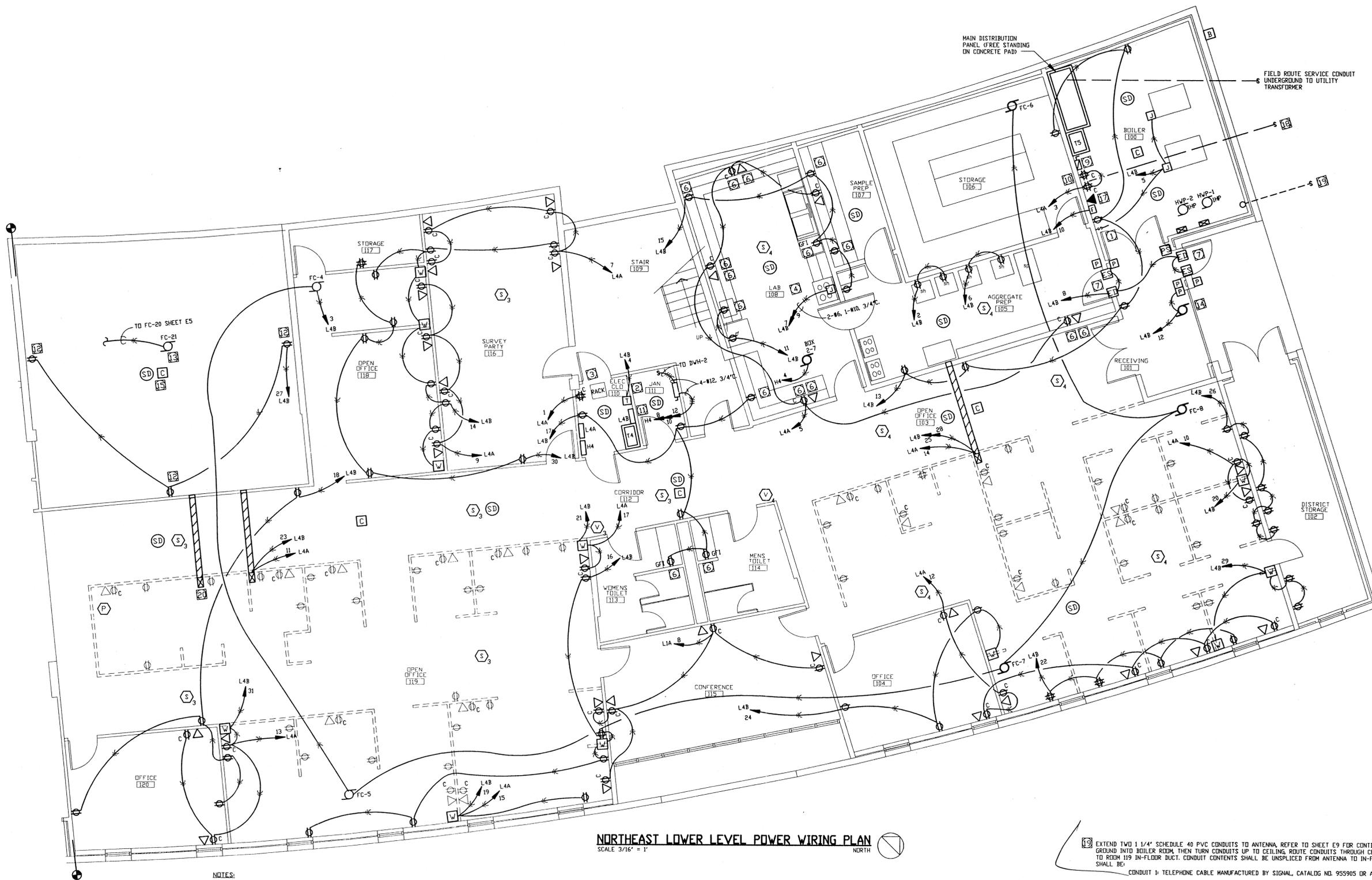
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SOUTHWEST LOWER LEVEL
 POWER WIRING PLAN



NORTHEAST LOWER LEVEL POWER WIRING PLAN
SCALE 3/16" = 1'
NORTH

NOTES:

- 1 MOUNT SWITCH 5'-6" AFF. SWITCH AND SWITCH PLATE SHALL BE RED. PROVIDE LABEL "BOILER KILL SWITCH".
- 2 PROVIDE COMPLETE CONNECTION TO 120/24 VOLT TRANSFORMERS FOR HVAC CONTROLS. COORDINATE QUANTITY AND LOCATION OF TRANSFORMERS IN ELECTRICAL CLOSET WITH CONTROLS CONTRACTOR. PROVIDE ADDITIONAL CIRCUITS, IF REQUIRED FROM SPARE CIRCUIT BREAKERS IN PANEL L4B.
- 3 DATA RACK IN ELECTRICAL CLOSET N.I.C.
- 4 PROVIDE COMPLETE CONNECTION TO 10.3 KW RANGE PROVIDED BY OWNER. MOUNT JUNCTION BOX RECESSED IN WALL 12" AFF.
- 5 NOT USED
- 6 MOUNT BOTTOM OF OUTLET 4" ABOVE COUNTER TOP.
- 7 ELECTRIC DOOR CONTROLLER, ELECTRIC STRIKE AND 2 PUSH BUTTONS PROVIDED AND INSTALLED BY OTHERS. WIRING BETWEEN PUSH BUTTONS AND DOOR CONTROLLER N.I.C. WIRING SHALL BE PROVIDED BY CONTRACTOR CONCEALED WITHIN DOOR FRAME BETWEEN DOOR CONTROLLER AND ELECTRIC STRIKE.
- 8 CONTRACTOR SHALL INSTALL SECONDARY (480V) CONDUCTORS AND CONDUIT FROM BOILER ROOM TO SECONDARY SIDE OF UTILITY TRANSFORMER. ROUTING SHALL BE BELOW BOILER ROOM FLOOR, UNDER GROUND TO TRANSFORMER PAD, TRANSFORMER, TRANSFORMER PAD, ALL METERING EQUIPMENT, PRIMARY (12.4KV) CONDUCTORS AND CONDUIT AND ALL CONNECTIONS WILL BE PROVIDED AND INSTALLED BY UTILITY COMPANY. PERMIT SECONDARY CONDUIT 24" BELOW GRADE TO SECONDARY SIDE OF TRANSFORMER PER UTILITY REQUIREMENTS.

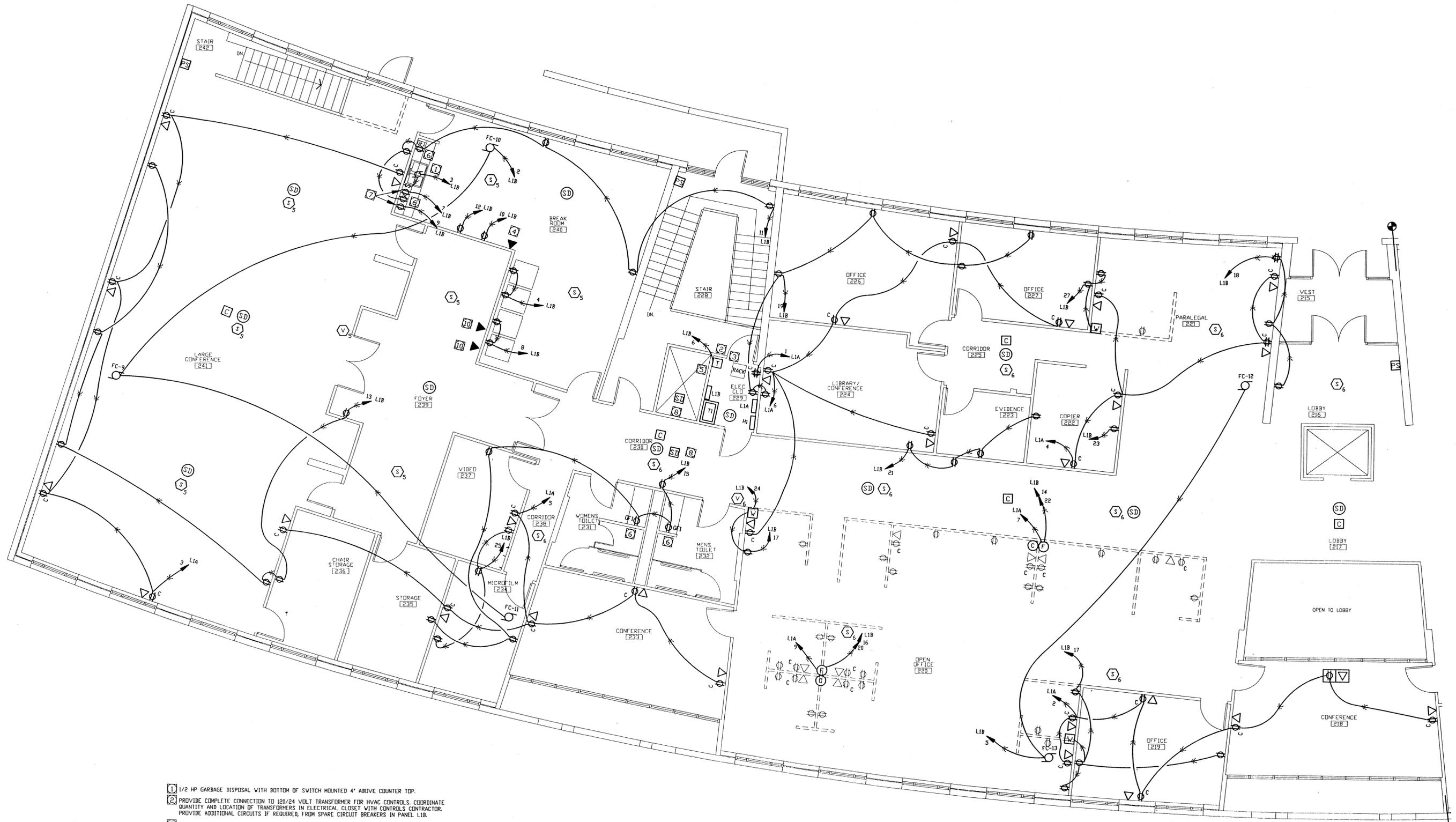
- 11 STUB 2 4" CONDUITS THROUGH WALL AT THIS LOCATION. REFER TO EMPTY CONDUIT DETAIL SHEET E10. ROUTE CONDUITS TO AVOID CONFLICTS WITH ALL DUCTS, PIPES, ETC.
- 12 THIS DUPLEX RECEPTACLE AND ALL ASSOCIATED WIRING SHALL BE INCLUDED AS AN ALTERNATE BID.
- 13 THIS FAN COIL AND ALL ASSOCIATED WIRING SHALL BE INCLUDED AS AN ALTERNATE BID.
- 14 ELECTRIC GARAGE DOOR OPENER AND PUSH BUTTON PROVIDED AND INSTALLED BY OTHERS. WIRING BETWEEN PUSH BUTTON AND DOOR OPENER SHALL BE PROVIDED BY CONTRACTOR.
- 15 SMOKE DETECTOR, CHIME AND ASSOCIATED POWER WIRING AND PROGRAMMING SHALL BE INCLUDED AS AN ALTERNATE BID.
- 16 ALL ELECTRICAL WORK SHOWN ON FURNITURE SYSTEMS N.I.C. PROVIDE WALL AND FLOOR ELECTRICAL FEEDS TO FURNITURE AS SHOWN. CONNECTIONS TO FURNITURE N.I.C. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF ALL FURNITURE WALL AND FLOOR FEEDS. DIMENSIONED FURNITURE DRAWINGS WILL BE PROVIDED TO CONTRACTOR PRIOR TO INSTALLATION OF WALL AND FLOOR FEEDS. WALL AND FLOOR FEEDS SHALL BE INSTALLED SUCH THAT FURNITURE SYSTEMS WILL CONCEAL THEIR APPEARANCE AS MUCH AS POSSIBLE.
- 17 PROVIDE TELEPHONE JACK FOR FIRE ALARM PANEL AUTO-DIALER AT LOCATION DESIGNATED BY FIRE ALARM SYSTEM SUBCONTRACTOR.
- 18 ROUTE ONE 4" SCHEDULE 40 PVC CONDUIT 24" BELOW GRADE TO TELEPHONE MAIN PANEL IN BOILER ROOM. EXTEND CONDUIT FROM THIS LOCATION TO EAST PROPERTY LINE AS SHOWN BY SHEET SD-3. AT PANEL, PROVIDE 4" RIGID STEEL ELBOW, AND EXTEND 4"

- 19 EXTEND TWO 1 1/4" SCHEDULE 40 PVC CONDUITS TO ANTENNA. REFER TO SHEET E9 FOR CONTINUATION. ROUTE CONDUITS UNDERGROUND INTO BOILER ROOM, THEN TURN CONDUITS UP TO CEILING. ROUTE CONDUITS THROUGH CEILING PLENUM FROM BOILER ROOM TO ROOM 119 IN-FLOOR DUCT. CONDUIT CONTENTS SHALL BE UNSPLICED FROM ANTENNA TO IN-FLOOR DUCT ACCESS PANEL AND SHALL BE:
 - CONDUIT 1- TELEPHONE CABLE MANUFACTURED BY SIGNAL, CATALOG NO. 95590S OR APPROVED EQUAL.
 - CONDUIT 2- 2-#6, 1-#10 GND. THWN FOR 30 AMP, 120 VOLT, SINGLE PHASE FEED (OPERATING CURRENT OF 55 AMPS).
- 20 THIS IN FLOOR DUCT DEDICATED FOR TELEPHONE AND EMERGENCY POWER CONNECTIONS TO ANTENNA. PROVIDE 5 FT. EXCESS TELEPHONE CABLE LENGTH AND 2 FT. EXCESS POWER WIRING LENGTH CONNECTIONS BY OTHERS.
- 21 REFER TO SPECIFICATIONS AND DETAILS ON SHEET E10 FOR COORDINATION REQUIREMENTS WITH FURNITURE CONTRACT.
22. ALL PA SYSTEM WORK SHALL BE INCLUDED AS AN ALTERNATE BID.

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NORTHEAST LOWER LEVEL POWER WIRING PLAN





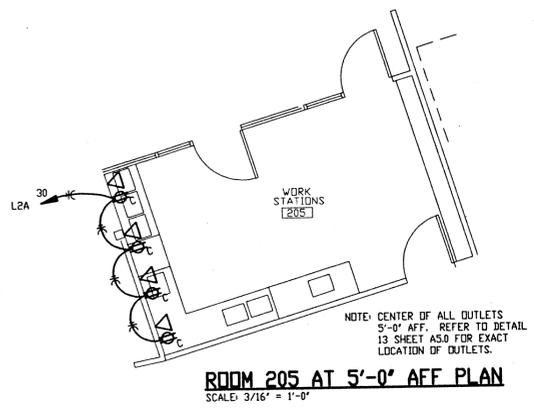
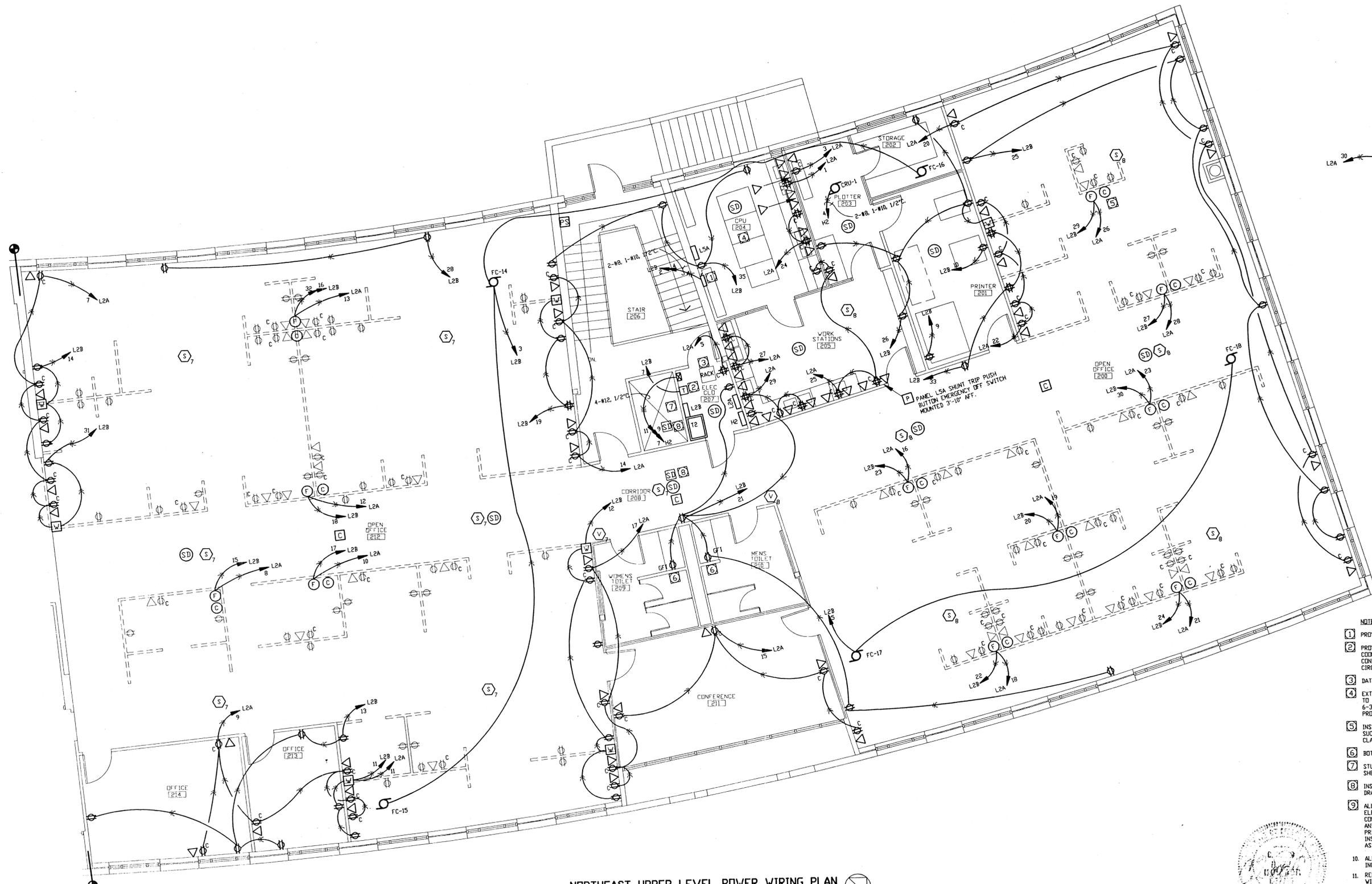
1. 1/2 HP GARBAGE DISPOSAL WITH BOTTOM OF SWITCH MOUNTED 4" ABOVE COUNTER TOP.
2. PROVIDE COMPLETE CONNECTION TO 120/24 VOLT TRANSFORMER FOR HVAC CONTROLS. COORDINATE QUANTITY AND LOCATION OF TRANSFORMERS IN ELECTRICAL CLOSET WITH CONTROLS CONTRACTOR. PROVIDE ADDITIONAL CIRCUITS IF REQUIRED, FROM SPARE CIRCUIT BREAKERS IN PANEL LIB.
3. DATA RACK IN ELECTRICAL CLOSET N.I.C.
4. TELEPHONE JACK MOUNTED 5'-0" AFF.
5. STUB 2'-4" CONDUITS THROUGH WALL AT THIS LOCATION. REFER TO EMPTY CONDUIT DETAIL SHEET E10. ROUTE CONDUITS TO AVOID CONFLICTS WITH ALL DUCTS, PIPES, ETC.
6. MOUNT BOTTOM OF RECEPTACLE 4" ABOVE COUNTERTOP.
7. MOUNT RECEPTACLE 5'-9" AFF FOR MICROWAVE OVENS BUILT IN TO OVERHEAD CABINETS.
8. DUCT SMOKE DETECTOR SHALL BE INSTALLED IN RTU MAIN S/A, R/A DUCT. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.
9. ALL ELECTRICAL WORK SHOWN ON FURNITURE SYSTEMS N.I.C. PROVIDE WALL AND FLOOR ELECTRICAL FEEDS TO FURNITURE AS SHOWN. CONNECTIONS TO FURNITURE N.I.C. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF ALL FURNITURE, WALL AND FLOOR FEEDS. DIMENSIONED FURNITURE DRAWINGS WILL BE PROVIDED TO CONTRACTOR PRIOR TO INSTALLATION OF WALL AND FLOOR FEEDS. WALL AND FLOOR FEEDS SHALL BE INSTALLED SUCH THAT FURNITURE SYSTEMS WILL CONCEAL THEIR APPEARANCE AS MUCH AS POSSIBLE.
10. TELEPHONE JACK FOR PUBLIC TELEPHONE. COORDINATE EXACT LOCATION AND HEIGHT WITH TELEPHONE COMPANY.

SOUTHWEST UPPER LEVEL POWER WIRING PLAN
 SCALE: 1/32" = 1'-0"
 NORTH

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 SOUTHWEST UPPER LEVEL
 POWER WIRING PLAN





NORTHEAST UPPER LEVEL POWER WIRING PLAN
SCALE 3/16" = 1'-0" NORTH

- NOTES:**
1. PROVIDE COMPLETE CONNECTION FROM 60 AMP DISCONNECT TO RELOCATED LIEBERT UNIT.
 2. PROVIDE COMPLETE CONNECTION TO 120/24 VOLT TRANSFORMERS FOR HVAC CONTROLS. COORDINATE QUANTITY AND LOCATION OF TRANSFORMERS IN ELECTRICAL CLOSET WITH CONTROLS CONTRACTOR. PROVIDE ADDITIONAL CIRCUITS, IF REQUIRED, FROM SPARE CIRCUIT BREAKERS IN PANEL L2B.
 3. DATA RACK IN ELECTRICAL CLOSET N.I.C.
 4. EXTEND 3 SEPARATE 3/4" FLEXIBLE CONDUITS FROM PANEL L5A UNDER RAISED FLOOR TO CPU. EACH CONDUIT SHALL CONTAIN 3-#10 AND SHALL TERMINATE WITH HUBBELL 6-30L 2623 LOCKING CONNECTOR (TO MATE WITH EXISTING PLUGS ON CPU EQUIPMENT). PROVIDE LENGTH OF CONDUIT AS REQUIRED TO EXTEND TO CPU.
 5. INSTALL POWER AND COMMUNICATION FLOOR OUTLETS NORTHWEST OF SHOWN LOCATION SUCH THAT THEY WILL BE CONCEALED BY FURNITURE PARTITIONS. (THESE BOXES, FOR CLARITY, ARE NOT SHOWN AT THE REQUIRED LOCATION).
 6. BOTTOM OF OUTLET MOUNTED 4" ABOVE COUNTERTOP.
 7. STUB 2-4" CONDUITS THROUGH WALL AT THIS LOCATION. REFER TO EMPTY CLOSET DETAIL SHEET E10. ROUTE CONDUITS TO AVOID CONFLICTS WITH ALL DUCTS, PIPES ETC.
 8. INSTALL DUCT SMOKE DETECTOR IN RTU S/A R/A MAIN DUCTS. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
 9. ALL ELECTRICAL WORK SHOWN ON FURNITURE SYSTEMS N.I.C. PROVIDE WALL AND FLOOR ELECTRICAL FEEDS TO FURNITURE AS SHOWN. CONNECTIONS TO FURNITURE N.I.C. CONTRACTOR SHALL BE RESPONSIBLE FOR EXACT LOCATION OF ALL FURNITURE WALL AND FLOOR FEEDS. DIMENSIONED FURNITURE DRAWINGS WILL BE PROVIDED TO CONTRACTOR PRIOR TO INSTALLATION OF WALL AND FLOOR FEEDS. WALL AND FLOOR FEEDS SHALL BE INSTALLED SUCH THAT FURNITURE SYSTEMS WILL CONCEAL THEIR APPEARANCE AS MUCH AS POSSIBLE.
 10. ALL WIRING IN ROOM 204 (CPU ROOM) ASSOCIATED WITH PANEL L5A SHALL BE CONCEALED, INCLUDING CPU FEEDS.
 11. REFER TO SPECIFICATIONS AND DETAILS ON SHEET E10 FOR COORDINATION REQUIREMENTS WITH FURNITURE CONTRACTOR.
 12. ALL PA SYSTEM WORK SHALL BE INCLUDED AS AN ALTERNATE BID.



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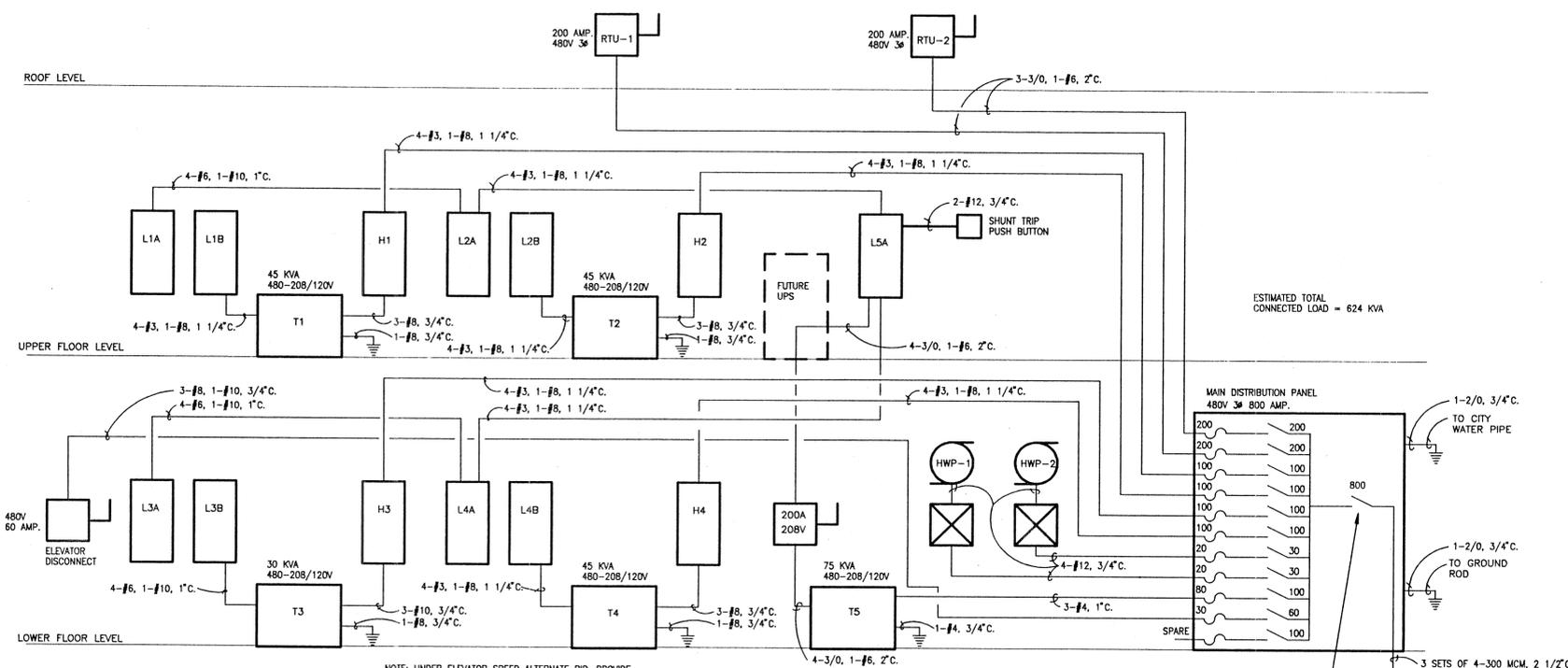
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NORTHEAST UPPER LEVEL
POWER WIRING PLAN



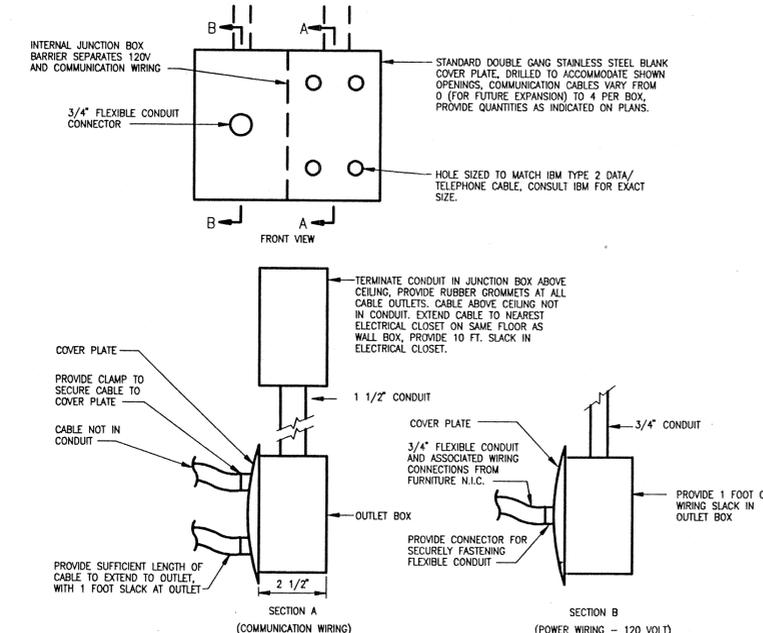


ELECTRICAL RISER DIAGRAM
N.T.S.

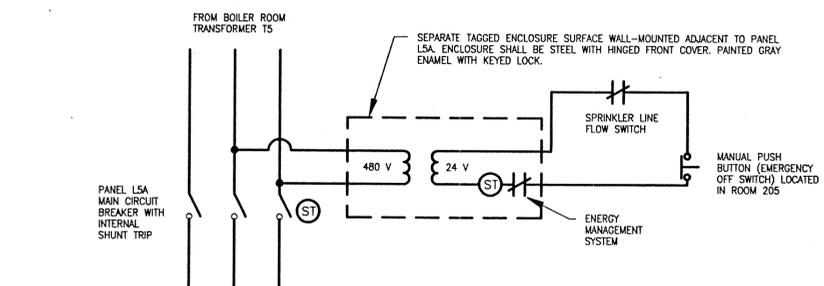
NOTE: UNDER ELEVATOR SPEED ALTERNATE BID, PROVIDE 50 AMP FUSES IN MAIN DISTRIBUTION PANEL FOR ELEVATOR FUSED SWITCH, INSTEAD OF THE SHOWN 30 AMP FUSES.

ESTIMATED TOTAL CONNECTED LOAD = 624 KVA

SOLID STATE MAIN CIRCUIT BREAKER W/ GFI PROTECTION



WALL BOX DETAIL
N.T.S.

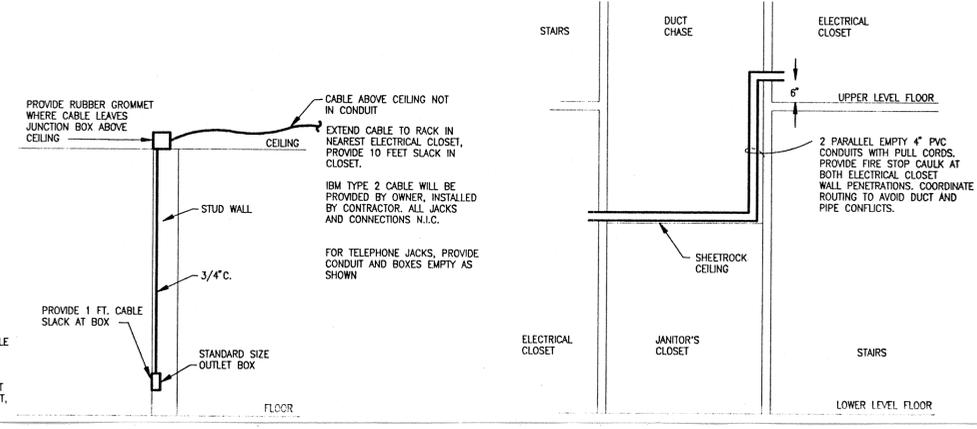
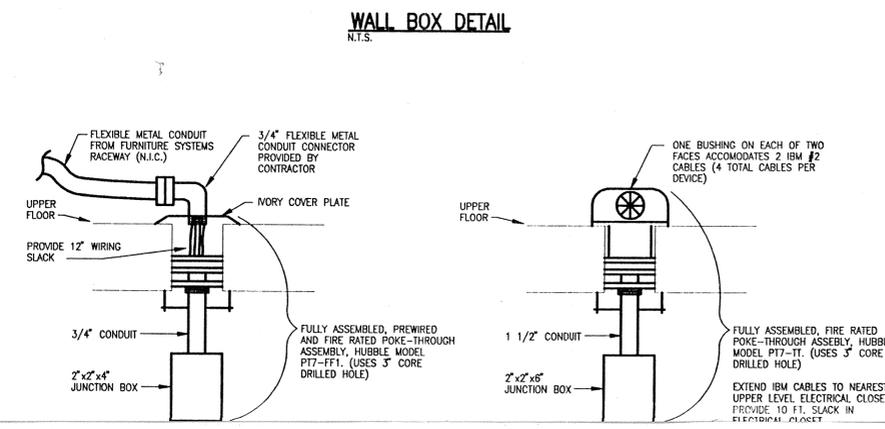


PANEL BOARD L5A CONTROL DIAGRAM
N.T.S.

- NOTES:**
1. ALL WIRE TO BE INSTALLED IN CONDUIT AND CONDUIT TO BE CONCEALED.
 2. FLOW SWITCH TO BE INSTALLED BY OTHERS, WIRED BY CONTRACTOR. FLOW SWITCH LOCATED IN CPU ROOM.
 3. COORDINATE INSTALLATION WITH EMS CONTRACTOR.

SEQUENCE OF OPERATIONS

PANEL L5A MAIN CIRCUIT BREAKER SHALL REMAIN CLOSED AT ALL TIMES. UPON ACTIVATION OF MANUAL PUSH BUTTON OR SPRINKLER FLOW SWITCH, OR UPON APPROPRIATE SIGNAL FROM EMS, L5A MAIN BREAKER SHALL OPEN. BREAKER SHALL REMAIN OPEN UNTIL MANUALLY RESET AT PANEL L5A MAIN CIRCUIT BREAKER.



LIGHTING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	CATALOG NUMBER	LAMP NO./WATTS/VOLTS	MOUNTING	SYMBOL	MANUFACTURER	CATALOG NUMBER	LAMP NO./WATTS/VOLTS	MOUNTING
A1	LITHONIA	2PM0C34027LS277ES	3/34/277	RECESSED	N1	LITHONIA	F2ESWR277ELN	2/5/277	SURFACE
A2	LITHONIA	2PM0C34027LS277ES	3/34/277	RECESSED	N2	LITHONIA	F2ESWR277ELN	2/5/277	SURFACE
B1	LITHONIA	AF13T77BC277	2/13/277	RECESSED	P	LIGHTOLIER	4903	1/13/277	WALL
B2	LITHONIA	AF13T77BC277	2/13/277	RECESSED	R	KIM	INWCL32070MH277/ MODLGP	1/70/277	WALL
B3	LITHONIA	AF13T77BC277	2/13/277	RECESSED	S1	LITHONIA	ELR2N	2/8/277	RECESSED
B4	LITHONIA	AF13T77BC277EBH	2/13/277	RECESSED	S2	LITHONIA	ELR2N	2/8/277	RECESSED
C1	LITHONIA	C240277ES	2/34/277	SURFACE	S3	LITHONIA	ELR2N	2/8/277	RECESSED
C2	LITHONIA	C140277ES	1/34/277	SURFACE	T1	KIM	FIXTURE: 2BAR5400 HPS277LGP POLE: PFRS39-9120LGP	2/400/277	POLE
D	LITHONIA	2SPG240A12.125277ES	2/34/277	RECESSED	T2	KIM	FIXTURE: 1AAR2400 HPS277LGP POLE: PFRS39-9120LGP	1/400/277	POLE
E	LITHONIA	LGH175M12RW73	1/175/277	RECESSED	T3	KIM	FIXTURE: 1AAR4400 HPS277LGP POLE: PFRS20-59120LGP	1/400/277	POLE
F	LITHONIA	AH175M12BC277	1/175/277	RECESSED	U	KIM	CL470MH277NFF	1/70/277	GROUND
G	SPI	SFB1401	1/175/277	SUSPENDED	V	IMPERIAL BRONZE/ELITE	FL-3040-FL-A	1/40/277	GROUND
H1	COAST	LWB11-18-OSC-460W	1/32/277	SUSPENDED	W1	LITHONIA	2SPG340A12.125277ES	3/34/277	RECESSED
H2	COAST	LWB13-18-OSC-460W	3/32/277	SUSPENDED	W2	LITHONIA	2SPG340A12.125277ES	3/34/277	RECESSED
J1	LITECONTROL	BSN2RSFPBSSCT277	12/25/277 2/34/277	RECESSED	W3	LITHONIA	2SPG340A12.125277ES	3/34/277	RECESSED
J2	LITECONTROL	BSN2RSFPBSSCT277	4/20/277 2/25/277 2/34/277	RECESSED	Y	ICE	WMAR124BRW277UP/DN	2/34/277	WALL
L	LITHONIA	RL4H70M277	1/70/277	RECESSED					
M	KIM	INWCL320175MH277 LGPHS	1/175/277	WALL					

LIGHTING/POWER WIRING LEGEND

- ⚡ SINGLE POLE SWITCH (⌀ 3'-10" AFF)
- ⚡ 3 THREE WAY SWITCH (⌀ 3'-10" AFF)
- ⚡ P SWITCH WITH PILOT LIGHT (⌀ 3'-10" AFF)
- ⚡ DUPLEX RECEPTACLE - NORMAL POWER (⌀ 18" AFF)
- ⚡ FOURPLEX RECEPTACLE - NORMAL POWER (⌀ 18" AFF)
- ⚡ C DUPLEX RECEPTACLE - DEDICATED POWER (⌀ 18" AFF)
- ⚡ C FOURPLEX RECEPTACLE - DEDICATED POWER (⌀ 18" AFF)
- ⚡ TELEPHONE JACK (⌀ 18" AFF) REFER TO DATA/TELEPHONE JACK DETAIL THIS SHEET
- ⚡ DATA/TELEPHONE JACK (⌀ 18" AFF) REFER TO DATA/TELEPHONE JACK DETAIL THIS SHEET
- ⚡ WALL MOUNTED JUNCTION BOX (MOUNT AS HIGH AS POSSIBLE)
- ⚡ PUSH BUTTON STATION (⌀ 3'-10" AFF)
- ⚡ S/S REMOTE START/STOP STATION (⌀ 5'-0" AFF)
- ⚡ PHOTOCELL
- ⚡ NON-FUSIBLE DISCONNECT
- ⚡ FUSED DISCONNECT
- ⚡ MOTOR CONTROLLER
- ⚡ POWER FLOOR BOX - REFER TO POWER FLOOR BOX DETAIL THIS SHEET
- ⚡ COMMUNICATION FLOOR BOX - REFER TO COMMUNICATION FLOOR BOX DETAIL THIS SHEET
- ⚡ WALL POWER/COMMUNICATION BOX - REFER TO WALL BOX DETAIL THIS SHEET
- ⚡ ELECTRICAL (IN FLOOR) WIRING DUCT
- ⚡ ELECTRICAL DUCT ACCESS PANEL
- ⚡ 2-#12, 3/4" CONCEALED RIGID CONDUIT, UNLESS NOTED OTHERWISE
- ⚡ SHORT, LONG AND CURVED TICKS INDICATE PHASE, NEUTRAL AND GROUND WIRES, RESPECTIVELY
- ⚡ CIRCUIT B HOME RUN TO PANEL A
- ⚡ GFI GROUND FAULT INTERRUPTING
- ⚡ T WALL MOUNTED TRANSFORMER
- ⚡ FLOOR SURFACE MOUNTED OUTLET CONTAINING DUPLEX RECEPTACLE AND DATA/TELEPHONE JACK
- ⚡ PA SYSTEM SPEAKER, ZONE ⌀
- ⚡ PA SYSTEM ZONE VOLUME CONTROL, ZONE ⌀
- ⚡ PA SYSTEM MICROPHONE AND SWITCH PANEL
- ⚡ SMOKE DETECTOR
- ⚡ DUCT SMOKE DETECTOR
- ⚡ COMBINATION CHIME/STROBE
- ⚡ FIRE ALARM SYSTEM PULL STATION
- ⚡ FIRE ALARM SYSTEM CONTROL PANEL
- ⚡ FIRE ALARM SYSTEM BELL
- ⚡ ELECTRICAL PANEL BOARD
- ⚡ PAD-MOUNTED TRANSFORMER
- ⚡ MOTOR
- ⚡ RECESSED 2x4 FLUORESCENT LIGHT FIXTURE
- ⚡ RECESSED ROUND LIGHT FIXTURE
- ⚡ PENDANT, SURFACE OR WALL MOUNTED FLUORESCENT LIGHT FIXTURE
- ⚡ PENDANT, SURFACE OR WALL MOUNTED FLUORESCENT LIGHT FIXTURE ON EMERGENCY LIGHTING CIRCUIT
- ⚡ PENDANT MOUNTED LIGHT FIXTURE
- ⚡ WALL MOUNTED H.I.D. LIGHT FIXTURE
- ⚡ EXIT LIGHT FIXTURE WITH INDICATING ARROWS
- ⚡ FLUORESCENT WALL SCONCE
- ⚡ EMERGENCY LIGHT FIXTURE
- ⚡ PARKING LOT LIGHT FIXTURES
- ⚡ FLAG POLE LIGHT FIXTURE
- ⚡ SIGN LIGHT FIXTURE
- ⚡ DATA/COMMUNICATION RACK N.I.C.
- ⚡ ELECTRIC DOOR STRIKE
- ⚡ ELECTRIC DOOR OPENER
- ⚡ WEATHER PROOF

NEW DISTRICT 7 HEADQUARTERS
JOPLIN, MISSOURI

PROJECT # 07-605-0-0001(C) ACCOUNT # 605-68177-9113

STATE OF MISSOURI
JOHN ASHCROFT, GOVERNOR

CORPORATE ENERGY CONSULTANTS, LTD.

MECHANICAL & ELECTRICAL DESIGN ENGINEERS AND ENERGY CONSULTANTS
10333 W. 84TH TERRACE-LENEXA, KANSAS 66214 (913) 894-9720

ELECTRICAL DETAILS AND SCHEDULES

ELECTRICAL PANEL BOARD <u>11A</u>																			
SERVICE			NOTES			MAINS			ENCLOSURE										
208 / 120 VOLT 3 PHASE 4 WIRE			DEDICATED POWER			BREAKER 100 AMP 3 POLE			NEMA 1										
LOCATION ROOM 229						LUGS AMP POLE			FLUSH MOUNTED										
						BOTTOM TOP			SURFACE MOUNTED										
CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT			
1	RACK	20 1	0.1	1.1		1	218, 19, 20 DR	4	1	FC-1	20 1	0.4	1.7	1	20	FC-9, 10, 11	2		
2	241 DR	20 1		0.9	0.9	1	221, 22 DR	4	2	GARBAGE DISPOSAL	20 1	1.1	1.0	1	20	VENDING MACHINES	4		
3	233, 34, 37, 41, DR	20 1		1.1	1.1	1	220, 24, 26, 27 DR	6	3	FC-12, 13	20 1		1.5	0.1	1	20	CONTROLS	6	
4	220 FLOOR BOX	20 1	0.7	1.9		1	SPARE	8	4	MICROWAVE OVEN	20 1	1.2	1.0		1	20	VENDING MACHINES	8	
5	220 FLOOR BOX	20 1		0.7	1.9	1	SPARE	10	5	MICROWAVE OVEN	20 1	1.2	1.2		1	20	REFRIGERATOR	10	
6	220 FLOOR BOX	20 1		1.9	1.9	1	SPARE	12	6	REFRIGERATOR	20 1		0.9	1.2	1	20	REFRIGERATOR	12	
7	SPACE	20 1				1	SPACE	14	7	236, 39, 41 DR	20 1	1.1	0.9		1	20	220 FLOOR BOX	14	
8	SPACE	20 1				1	SPACE	16	8	230, 31, 32, 34, 35, 37 DR	20 1	1.1	0.8		1	20	220 FLOOR BOX	16	
9	SPACE	20 1				1	SPACE	18	9	219, 20 DR	20 1		1.2	0.9	1	20	220 FLOOR BOX	18	
10	SPACE	20 1				1	SPACE	20	10	19, 224, 24, 27, 29 DR	20 1	1.1	0.8		1	20	220 FLOOR BOX	20	
11	SPACE	20 1				1	SPACE	22	11	220, 22, 23, 24	20 1		0.7	0.9	1	20	220 FLOOR BOX	22	
12	SPACE	20 1				1	SPACE	24	12	23	20 1		1.9	0.5	1	20	220 WALL BOX, DR	24	
13	SPACE	20 1				1	SPACE	26	13	25	20 1	1.5	1.9		1	20	SPARE	26	
14	SPACE	20 1				1	SPACE	28	14	27	20 1	0.6	1.9		1	20	SPARE	28	
15	SPACE	20 1				1	SPACE	30	15	29	20 1			1.9		1	20	SPARE	30
16	SPACE	20 1				1	SPACE	32	16	31	20 1		1.9			1	20	SPARE	32
17	SPACE	20 1				1	SPACE	34	17	33	20 1		1.9			1	20	SPARE	34
18	SPACE	20 1				1	SPACE	36	18	35	20 1		1.9			1	20	SPARE	36
19	SPACE	20 1				1	SPACE	38	19	37	20 1		1.9			1	20	SPARE	38
20	SPACE	20 1				1	SPACE	40	20	39	20 1		1.9			1	20	SPARE	40
21	SPACE	20 1				1	SPACE	42	21	41	20 1		1.9			1	20	SPARE	42
TOTAL PHASE A			3.8			TOTAL PHASE B			4.4			TOTAL PHASE C			6.0				
TOTAL CONNECTED LOAD			14.2			KVA													
LOAD			CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA		
LIGHTING	RECEPTACLES	TRANSFORMERS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
6.6	5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3		
CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			20			CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			74			CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			60				
BREAKER SIZE =			60			BREAKER SIZE =			100			BREAKER SIZE =			60				

ELECTRICAL PANEL BOARD <u>11B</u>																	
SERVICE			NOTES			MAINS			ENCLOSURE								
208 / 120 VOLT 3 PHASE 4 WIRE			DEDICATED POWER			BREAKER 100 AMP 3 POLE			NEMA 1								
LOCATION ROOM 229						LUGS AMP POLE			FLUSH MOUNTED								
						BOTTOM TOP			SURFACE MOUNTED								
CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT	
1	FC-1	20 1	0.4	1.7		1	20	2	FC-9, 10, 11	20 1	3.5	1.2		1	20	EMERGENCY L	
2	GARBAGE DISPOSAL	20 1		1.1	1.0	1	20	4	VENDING MACHINES	20 1	3.5	6.3		3	40	TRANSFORMER T1	
3	FC-12, 13	20 1			1.5	0.1	1	20	CONTROLS	20 1			2.9	6.3	1	20	TRANSFORMER T1
4	MICROWAVE OVEN	20 1	1.2	1.0		1	20	8	VENDING MACHINES	20 1	2.7	6.3		2	1	20	SPARE
5	MICROWAVE OVEN	20 1	1.2	1.2		1	20	10	REFRIGERATOR	20 1	2.6	1.9		1	20	SPARE	
6	REFRIGERATOR	20 1		0.9	1.2	1	20	12	REFRIGERATOR	20 1	1.9	1.9		1	20	SPARE	
7	236, 39, 41 DR	20 1	1.1	0.9		1	20	14	220 FLOOR BOX	20 1				1	20	SPACE	
8	230, 31, 32, 34, 35, 37 DR	20 1	1.1	0.8		1	20	16	220 FLOOR BOX	20 1				1	20	SPACE	
9	219, 20 DR	20 1		1.2	0.9	1	20	18	220 FLOOR BOX	20 1				1	20	SPACE	
10	19, 224, 24, 27, 29 DR	20 1	1.1	0.8		1	20	20	220 FLOOR BOX	20 1				1	20	SPACE	
11	220, 22, 23, 24	20 1		0.7	0.9	1	20	22	220 FLOOR BOX	20 1				1	20	SPACE	
12	23	20 1		1.9	0.5	1	20	24	220 WALL BOX, DR	20 1				1	20	SPACE	
13	25	20 1	1.5	1.9		1	20	26	SPARE	20 1				1	20	SPACE	
14	27	20 1	0.6	1.9		1	20	28	SPARE	20 1				1	20	SPACE	
15	29	20 1			1.9		1	20	30	SPARE	20 1				1	20	SPACE
16	31	20 1		1.9			1	20	32	SPARE	20 1				1	20	SPACE
17	33	20 1		1.9			1	20	34	SPARE	20 1				1	20	SPACE
18	35	20 1		1.9			1	20	36	SPARE	20 1				1	20	SPACE
19	37	20 1		1.9			1	20	38	SPARE	20 1				1	20	SPACE
20	39	20 1		1.9			1	20	40	SPARE	20 1				1	20	SPACE
21	41	20 1		1.9			1	20	42	SPARE	20 1				1	20	SPACE
TOTAL PHASE A			13.5			TOTAL PHASE B			12.4			TOTAL PHASE C			12.0		
TOTAL CONNECTED LOAD			37.9			KVA											
LOAD			CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA	CONN. KVA	DEMAND FACTOR	DESIGN KVA
LIGHTING	RECEPTACLES	TRANSFORMERS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21.8	5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			59			CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			74			CONTINUOUS LOAD AMPS WITH SAFETY FACTOR =			100		
BREAKER SIZE =			100			BREAKER SIZE =			100			BREAKER SIZE =			100		

ELECTRICAL PANEL BOARD <u>H1</u>																	
SERVICE			NOTES			MAINS			ENCLOSURE								
480 / 277 VOLT 3 PHASE 4 WIRE			NORMAL POWER			BREAKER 100 AMP 3 POLE			NEMA 1								
LOCATION ROOM 229						LUGS AMP POLE			FLUSH MOUNTED								
						BOTTOM TOP			SURFACE MOUNTED								
CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT	SERVING	BREAKER TRIP POLE	PHASE A	PHASE B	PHASE C	BREAKER TRIP POLE	SERVING	CKT	
1	215, 16, 17, 18, 19, 21, 22, 23 L	20 1	3.5	1.2		1	20	2	EMERGENCY L	20 1				1	20	EMERGENCY L	
2	220, 24, 26, 27 L	20 1				1	20	4	TRANSFORMER T1	20 1				3	40	TRANSFORMER T1	
3	226, 28, 30, 31, 32, 33 L	20 1				1	20	6	CONTROLS	20 1				2.9	6.3	1	20
4	234, 35, 37, 38, 39, 41 L	20 1	2.7	6.3		1	20	8	VENDING MACHINES	20 1	2.7	6.3		2	1	20	
5	240, 42 L	20 1	2.6	1.9		1	20	10	REFRIGERATOR	20 1	2.6	1.9		1	20	SPARE	
6	SPARE	20 1				1	20	12	REFRIGERATOR	20 1	1.9	1.9		1	20	SPARE	
7	SPACE	20 1				1	20	14	220 FLOOR BOX	20 1				1	20	SPACE	
8	SPACE	20 1				1	20	16	220 FLOOR BOX	20 1				1	20	SPACE	
9	SPACE	20 1				1	20	18	220 FLOOR BOX	20 1				1	20	SPACE	
10	SPACE	20 1				1	20	20	220 FLOOR BOX	20 1				1	20	SPACE	
11	SPACE	20 1				1	20	22	220 FLOOR BOX	20 1				1	20	SPACE	
12	SPACE	20 1				1	20	24	220 WALL BOX, DR	20 1				1	20	SPACE	
13	SPACE	20 1				1	20	26	SPARE	20 1				1	20	SPACE	
14	SPACE	20 1				1	20	28	SPARE	20 1				1	20	SPACE	
15	SPACE	20 1				1	20	30	SPARE	20 1				1	20	SPACE	
16	SPACE	20 1				1	20	32	SPARE	20 1				1	20	SPACE	
17	SPACE	20 1				1	20	34	SPARE	20 1				1	20	SPACE	
18	SPACE	20 1				1	20	36	SPARE	20 1				1	20	SPACE	
19	SPACE	20 1				1	20	38	SPARE	20 1				1	20	SPACE	
20	SPACE	20 1				1	20	40	SPARE	20 1				1	20	SPACE	
21	SPACE	20 1				1	20	42	SPARE	20 1				1	20	SPACE	
TOTAL PHASE A			13.7			TOTAL PHASE B			14.								