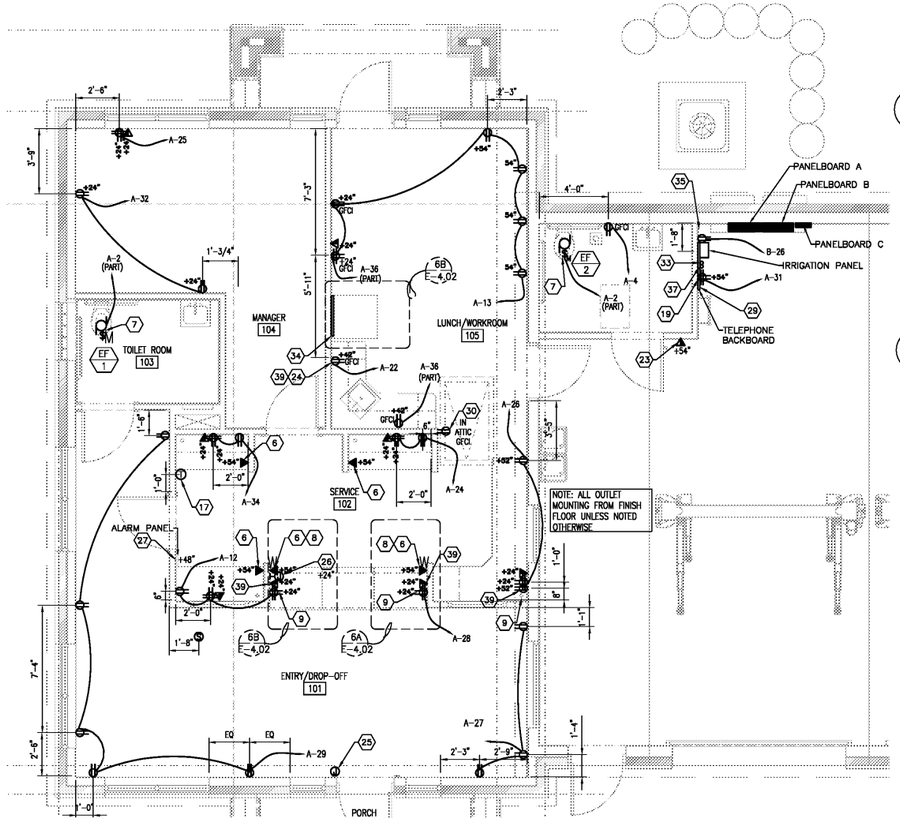
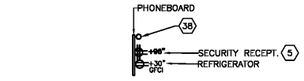


2 PARTIAL ELECTRICAL POWER PLAN
SCALE: 1/4"=1'-0"



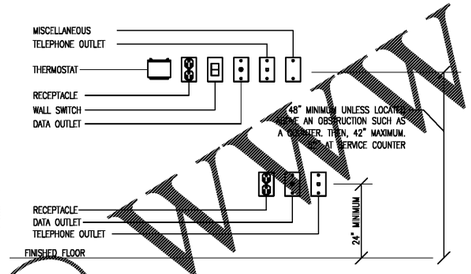
5 LUNCH/WORKROOM CONFIGURATION
SCALE: 1/4"=1'-0"

*NOTE:
ALIGN ON CENTERLINE OF PILASTERS

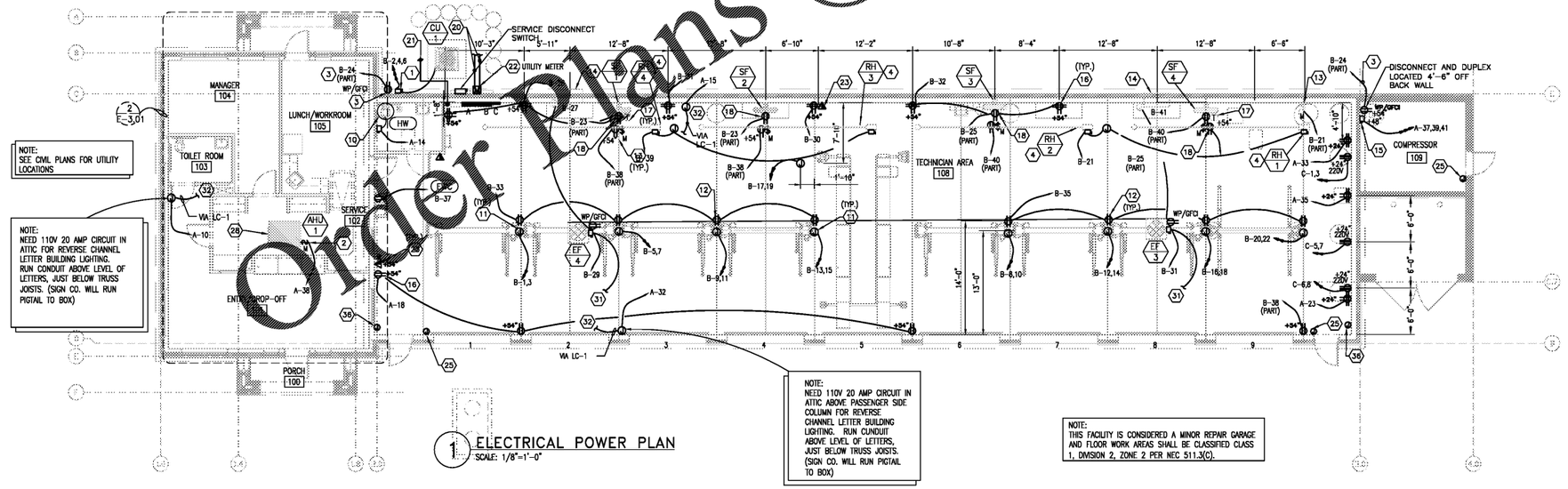
RECEPTACLE
AIR DROP
JUNCTION BOX

(REF. TO PLAN FOR LOCATION)

3 LIFT SERVICE CONFIGURATION
SCALE: NONE



4 MOUNTING HEIGHT DETAIL
SCALE: NONE



1 ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL KEYED NOTES:

1. PROVIDE A 30/3/NF/3R DISCONNECT SWITCH ON EXTERIOR WALL FOR CU-1 SHUTOFF. DISCONNECT AND DUPLEX LOCATED 4'6" OFF BACK WALL. FINAL CONNECTIONS SHALL BE MADE VIA SEALTITE FLEXIBLE CONDUIT.
2. PROVIDE A 20A, 1P MOTOR RATED TOGGLE SWITCH FOR AHU-1 DISCONNECT. FINAL CONNECTIONS SHALL BE MADE VIA FMC.
3. ON SERVING CIRCUIT, THERE SHALL BE NO NON-GFCI RECEPTACLES ON LOAD SIDE OF NOTED GFCI RECEPTACLE.
4. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL COORDINATE LOCATIONS OF RADIANT HEATERS AND HIGH BAY "M" FIXTURES.
5. PROVIDE A DEDICATED NEMA 5-20 DUPLEX RECEPTACLE AT 5'-0" A.F.F. WHERE SHOWN FOR SECURITY SYSTEM. COORDINATE WORK WITH OTHER TRADES INVOLVED.
6. TELEPHONE RECEPTACLE SHALL BE MOUNTED +6" FROM EDGE OF WALL.
7. EXHAUST FAN TO BE CENTERED OVER TOILET. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
8. TELEPHONE RECEPTACLE SHALL BE MOUNTED AT +54" A.F.F. TO ℄ BOX ABOVE FINISHED COUNTER. LOCATE 6" AT ℄ FROM EDGE OF WALL, SEE DIMENSIONS ON DRAWINGS.
9. HOLES WITH PLASTIC GROMMET IN COUNTERTOP FOR EQUIPMENT POWER/DATA CORD COUNTERTOP PENETRATIONS.
10. PROVIDE A 30/2/NF DISCONNECT SWITCH ABOVE CEILING FOR LOCAL SHUTOFF OF WATER HEATER #1. FINAL CONNECTIONS SHALL BE MADE VIA SEALTITE FLEXIBLE CONDUIT.
11. TYPICAL OF (9): PROVIDE A JUNCTION BOX PER DIMENSIONS. PROVIDE A STRAIN RELIEF GRIP AT JUNCTION BOX. PROVIDE SO CORD TO A LB-30R (2 POLE, 3 WIRE GROUNDING) LOCKING CONNECTOR BODY. HARD WIRE LIFT WITH SO CORD AND PROVIDE A LB-30P (2 POLE, 3 WIRE GROUNDING) QUICK DISCONNECT LOCK PLUG. COORDINATE HEIGHT WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
12. TYPICAL OF (9): PROVIDE A RECEPTACLE ON BOTTOM CHORD OF STRUCTURAL TRUSS FOR CORD REEL POWER CONNECTION.
13. TYPICAL OF (2): PROVIDE A 30A, 1P MOTOR RATED TOGGLE SWITCH FOR RADIANT HEATER DISCONNECT. FINAL CONNECTIONS SHALL BE MADE VIA SEALTITE FLEXIBLE CONDUIT.
14. PROVIDE A FLEXIBLE CONNECTION AT +15" A.F.F. TO ELECTRIC ACTUATOR IN MECHANICAL INTAKE LOUVER. COORDINATE WORK WITH MECHANICAL CONTRACTOR. SEE WIRING DIAGRAM #2 ON DRAWING E-4.01.
15. PROVIDE A 30/3/25 DISCONNECT SWITCH IN NEMA 3 ENCLOSURE WITH 25A DUAL ELEMENT TIME DELAY FUSES AT +48"A.F.F. ON COMPRESSOR CLOSET WALL FOR LOCAL SHUTOFF OF 5HP AIR COMPRESSOR. VERIFY THE PRESENCE OF AN ON-BOARD MOTOR STARTER WITH THERMAL PROTECTION AND PROVIDE IF NOT ALREADY PRESENT. ALL FINAL CONNECTIONS BETWEEN DISCONNECT AND ON-BOARD STARTER (AS APPLICABLE) SHALL BE MADE VIA SEALTITE FLEXIBLE CONDUIT. VERIFY HORSEPOWER, VOLTAGE, AND BREAKER SIZE OF ACTUAL COMPRESSOR ORDERED PRIOR TO FINAL BREAKER/DISCONNECT/CONDUCTOR SELECTION. VERIFY LOCATION OF COMPRESSOR WITH OWNER'S REPRESENTATIVE PRIOR TO WORK. RUN 4#10 & 1#10 GROUND IN 1"C AND USE PVC SCHEDULE 40 UNDERGROUND OUTSIDE ONLY.
16. ALL 20A 120V CONVENIENCE DUPLEX AND QUAD RECEPTACLES IN GARAGE SHALL BE GFCI TYPE OR SHALL BE PROTECTED BY GFCI RATED BREAKERS PER NEC ARTICLE 511.12. ALL RECEPTACLES SHALL HAVE METAL FACEPLATES AND SHALL BE MOUNTED AT +54"A.F.F.
17. COORDINATE EXACT LOCATION OF THERMOSTAT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
18. TYPICAL OF (4) PROVIDE A NEMA 5-20 DUPLEX RECEPTACLE AT +96"A.F.F. FOR OSCILLATION FAN POWER CONNECTION. PROVIDE SPST SWITCHES AT +54" AFF (NOT SHOWN) TO CONTROL THESE RECEPTACLES. MOUNT RECEPTACLE AND SWITCH VERTICALLY ALIGNED WITH FAN.
19. PROVIDE A DEDICATED NEMA 5-20 DUPLEX RECEPTACLE WITH GFCI PROTECTION AT +54"A.F.F. WHERE SHOWN FOR IRRIGATION CONTROLS. PROVIDE AND INSTALL A 1" PVC CONDUIT (AS NECESSARY) ROUTED BELOW GRADE FROM CONTROLLER TO AN ACCESSIBLE LOCATION AT BUILDING EXTERIOR AND CAP. COORDINATE WITH OWNER'S LANDSCAPER (AS APPLICABLE).
20. ROUTE (2) SCHEDULE 40 PVC ELECTRICAL CONDUITS (SIZE AS SPECIFIED BY LOCAL UTILITY) AT LEAST 24" BELOW FINISHED GRADE FROM BUILDING EXTERIOR WALL BELOW TRANSOCKET METER TO NEW SECONDARY RISER ON POLE (SITE VERIFY EXACT LOCATION). REFER TO SHEET E-4.01. (1) CONDUIT SHALL BE USED FOR A RACEWAY FOR THE SERVICE ENTRANCE. (1) RACEWAY SHALL CONTAIN A 1/8" NYLON PULLSTRING AND SHALL BE USED AS A SPARE. COORDINATE NEW SERVICE ENTRANCE WITH LOCAL UTILITY.
21. ROUTE (1) 1" SCHEDULE 40 PVC TELEPHONE CONDUIT WITH PULLSTRING AT LEAST 24" BELOW FINISHED GRADE FROM UTILITY BUILDING DEMARK POINT TO A LOCATION ON PROPERTY LINE AS DICTATED BY THE UTILITY. STUB UP AND CAP CONDUIT AT BOTH ENDS. COORDINATE CONDUIT TERMINATION POINTS WITH UTILITY. CONDUITS MAY SHARE A COMMON TRENCH WITH OTHER POWER AND TELEPHONE DATA CONDUITS IF MINIMUM CONDUIT SPACE PER UTILITY SPECIFICATIONS IS ACHIEVED. COORDINATE TELEPHONE AND DATE ENTRANCE WITH LOCAL UTILITY.
22. DENOTES BUILDING MOUNTED UTILITY METER, AND SERVICE DISCONNECT. REFER TO SHEET E-4.01.
23. TYPICAL OF ALL TELEPHONE OR TELEPHONE/DATA RECEPTACLES: PROVIDE AND INSTALL A SINGLE (OR MULTI-GANG BOX IF NEAR OTHER POWER OR DATA RECEPTACLES) WITH BLANK COVER PLATE WHERE SHOWN. ROUTE A 3/4" EMT CONDUIT WITH PULLSTRING FROM JUNCTION BOX TO ACCESSIBLE ATTIC/STORAGE SPACE AND CAP.
24. POWER FOR MICROWAVE AT 42" A.F.F. AND 18" OFF WALL CORNER, SEE DIMENSION ON DRAWINGS.
25. JUNCTION BOX MOUNTED MAX 12" OVER DOOR (LATCH-SIDE) WITH 3/4" CONDUIT INTO ATTIC SPACE FOR SECURITY WIRING (BY OTHERS).
26. PROVIDE 2 CONDUITS FOR STEREO EQUIPMENT FROM JUNCTION BOX LOCATED BELOW THE COUNTER AT +24" A.F.F. TO A 90° BEND STUBBED INTO ATTIC. PROVIDE (2) #18 SPEAKER WIRES FROM JUNCTION BOX AND RUN (1) 2#18 TO EACH SPEAKER. CONNECT TO SPEAKER AND PROVIDE 24 INCHES OF WIRES SLACK AT JUNCTION BOX.
27. PROVIDE SINGLE GANG BOX & 1" CONDUIT FOR SECURITY SYSTEM ALARM KEYPAD WITH 90° BEND INTO ATTIC WITH PULLSTRING.
28. EC SHALL PROVIDE, INSTALL AND WIRE A SMOKE DETECTOR IN THE RETURN DUCT OF FAN COIL UNIT #1. CONNECT TO FAN COIL UNIT #1 CONTROL CIRCUIT SO THAT IN THE EVENT OF A SMOKE DETECTION THE FAN WILL SHUT DOWN.
29. PROVIDE TELEPHONE EQUIPMENT BACKBOARD. REFER TO #1/E-4.01.
30. CONNECT GFCI OUTLET LOCATED IN THE ATTIC TO SAME CIRCUIT FEEDING THE ATTIC DOOR. SEE KEYED NOTE #1 ON DRAWING E-2.01.
31. WIRE EXHAUST FAN EF-3 AS SHOWN PER DIAGRAM 2/E-4.01.
32. REFER TO E-4.01 FOR CONTROLS SCHEDULE.
33. PROVIDE 1" CONDUIT FROM DEMARK POINT ON TECH RR EXTERIOR WALL THROUGH SLAB TO TELEPHONE UTILITY POINT OF CONNECTION.
34. PROVIDE PHONE/DATA BACKBOARD. PAINT WALL COLOR. REFER TO SECTION 4/ME-1.01.
35. COORDINATE LOCATION OF EQUIPMENT AT TECH RESTROOM WALL WITH WATER SERVICE ENTRANCE AND WITH ARCHITECTURAL ELEVATIONS.
36. JUNCTION BOX MOUNTED AT 18" OFF FRONT WALL & 18" AFF WITH 3/4" CONDUIT INTO ATTIC SPACE FOR SECURITY WIRING (BY OTHERS)
37. PROVIDE 1" CONDUIT MOUNTED 78" AFF TO RUN INTO ATTIC FOR LOW VOLTAGE WIRING (BY OTHERS)
38. PROVIDE 1" CONDUIT MOUNTED 12" BELOW CEILING TO RUN INTO ATTIC FOR LOW VOLTAGE WIRING (BY OTHERS)
39. ALL OUTLETS/DROPS SHALL BE A MIN OF 6" FROM EDGE OF COUNTER. COORDINATE EXACT LOCATION WITH G.C.
40. PROVIDE 3" CONDUIT FROM ATTIC TO 1"C BELOW CEILING.

ELECTRICAL GENERAL NOTES:

A. REFER TO SHEET E-1.01 FOR GENERAL NOTES AND SYMBOLS THAT SHALL APPLY TO ALL SHEETS IN THIS SET UNLESS NOTED OTHERWISE IN THE KEYED NOTES.

B. ALL 120V 20A CONVENIENCE AND TELEPHONE RECEPTACLES IN REPAIR AREA AND PERIMETER WALLS SHALL BE MOUNTED AT +54"A.F.F. UNLESS NOTED OTHERWISE.

C. ALL 120V 20A CONVENIENCE RECEPTACLES SHALL EITHER HAVE INTERNAL GFCI PROTECTION, OR SHALL BE SERVED BY GFCI RATED BREAKERS PER NEC ARTICLE 511.12.

D. ALL MULTIWIRE CIRCUITS SHALL HAVE A MINIMUM NEUTRAL SIZE OF #10AWG.

E. ALL RECEPTACLES IN RECEPTION, OFFICE, SERVICE AREA, AND RESTROOMS SHALL BE MOUNTED AT +18"A.F.F. UNLESS OTHERWISE NOTED.

F. ALL WIRE SIZES SHALL BE #12 THHN/THWN, UNLESS NOTED OTHERWISE.

G. ALL CONDUIT SHALL BE 3/4"EMT, UNLESS NOTED OTHERWISE.

H. VERIFY ALL EQUIPMENT, EQUIPMENT PLACEMENT, AND EQUIPMENT MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE.

I. VERIFY ALL EQUIPMENT OVERCURRENT PROTECTION WITH MANUFACTURER.

J. CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% IN FEEDERS, AND 3% IN BRANCH CIRCUITS.

K. ALL OUTLETS, UNLESS OTHERWISE SPECIFIED, TO BE MINIMUM OF 20 AMPS.

L. UTILIZE SPARES AS NECESSARY FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

M. NO WATER PIPING SHALL BE RUN DIRECTLY ABOVE ELECTRICAL PANELS.

N. ALL 20A 120V CONVENIENCE RECEPTACLES LOCATED OUTDOORS, IN GARAGE, OR WITHIN 6'-0" OF WATER SUPPLYING PLUMBING FIXTURES SHALL HAVE GFCI PROTECTION.

O. ALL EXTERIOR HOMERUNS SHALL HAVE A MINIMUM CONDUCTOR SIZE OF #10AWG.

P. ALL ADJACENT POWER, DATA, AND TELEPHONE RECEPTACLES SHALL BE GANGED TOGETHER, AS PRACTICAL.

Q. THESE DRAWINGS ARE INTENDED TO BE COMPLETE AT THE TIME OF ISSUE, BUT WILL NOT REFLECT ANY NEW EQUIPMENT OR LIGHTS THAT MAY BE MOVED, ADDED, OR SUBSTITUTED AFTER THE ISSUE DATE. PROVIDE ALL NECESSARY BREAKERS, WIRING, CONDUITS, RECEPTACLES, JUNCTION BOXES, SWITCHES, ETC. FOR EQUIPMENT AND LIGHTS NOT SHOWN ON PLANS OR FOR EQUIPMENT AND LIGHTS THAT HAVE BEEN MOVED, SUBSTITUTED, OR ALTERED. VERIFY ALL ELECTRICAL REQUIREMENTS OF NEW OR ALTERNATE EQUIPMENT AND LIGHTS WITH MANUFACTURER. CONTACT ELECTRICAL ENGINEER IF ANY DISCREPANCIES ARISE.

R. ELECTRICAL RECEPTACLES ARE TO BE WHITE IN THE OFFICE AREA WITH WHITE COVERPLATES AND BLACK IN THE SHOP AREA WITH STAINLESS STEEL COVERPLATES.

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10/19/2018
Date

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