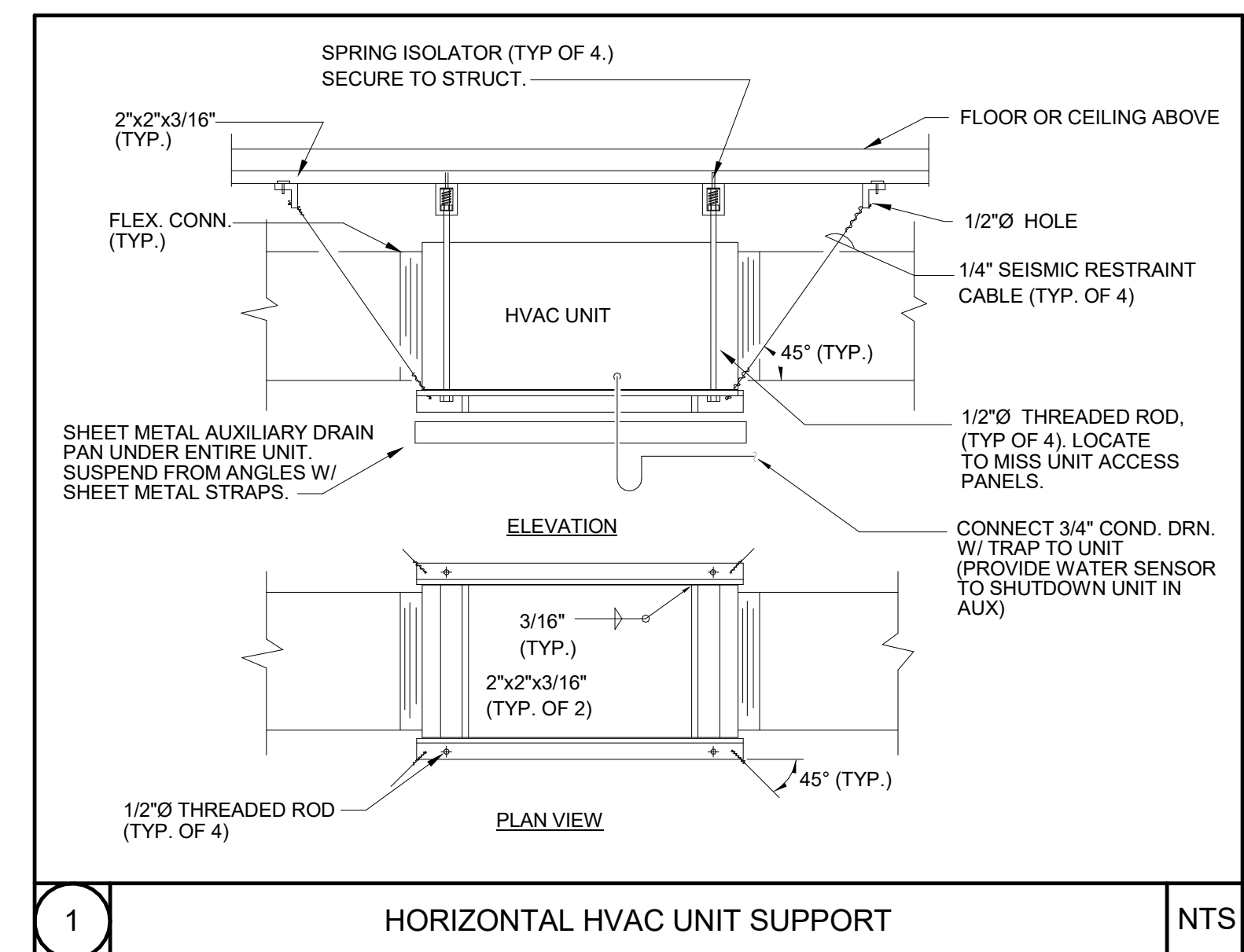
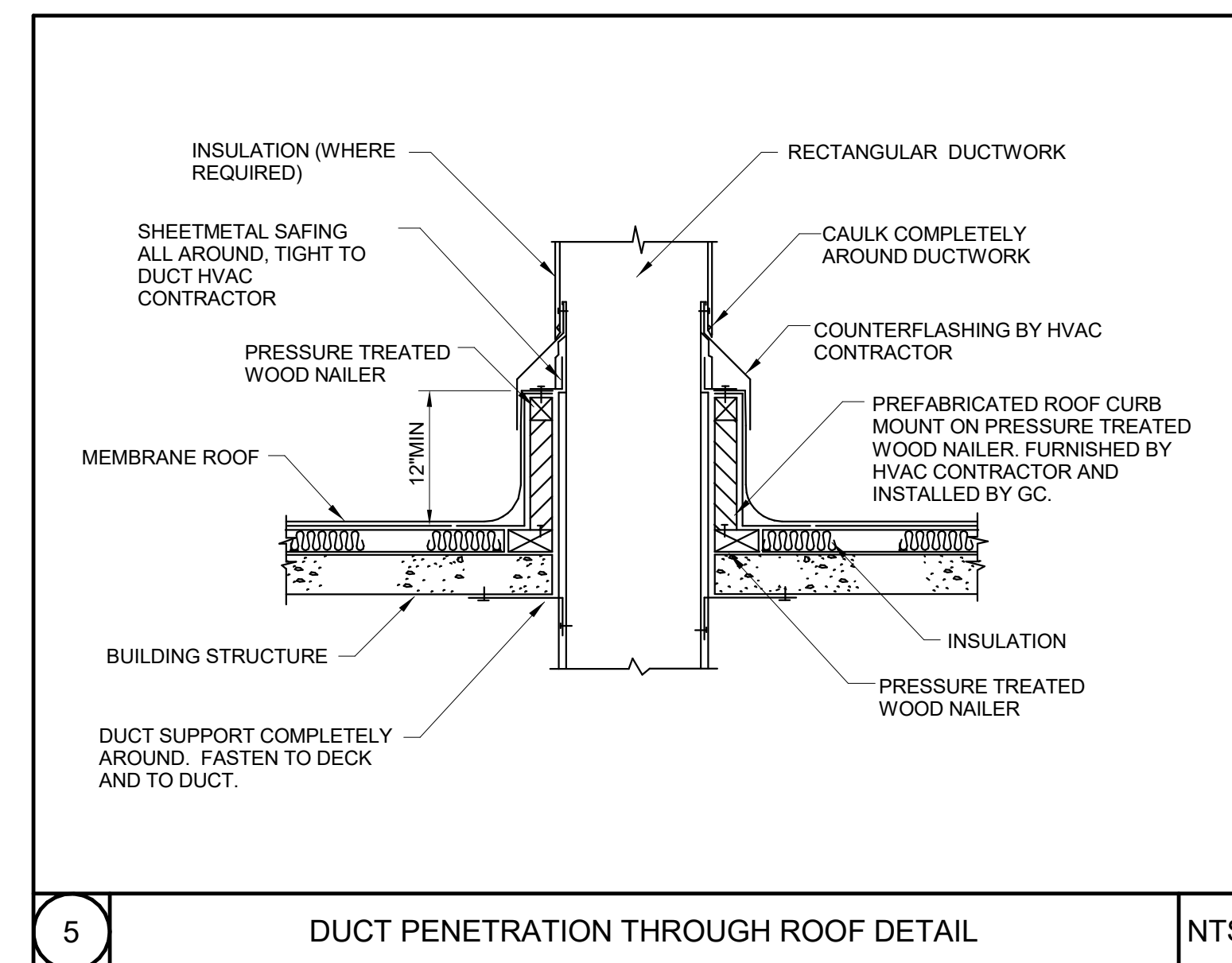
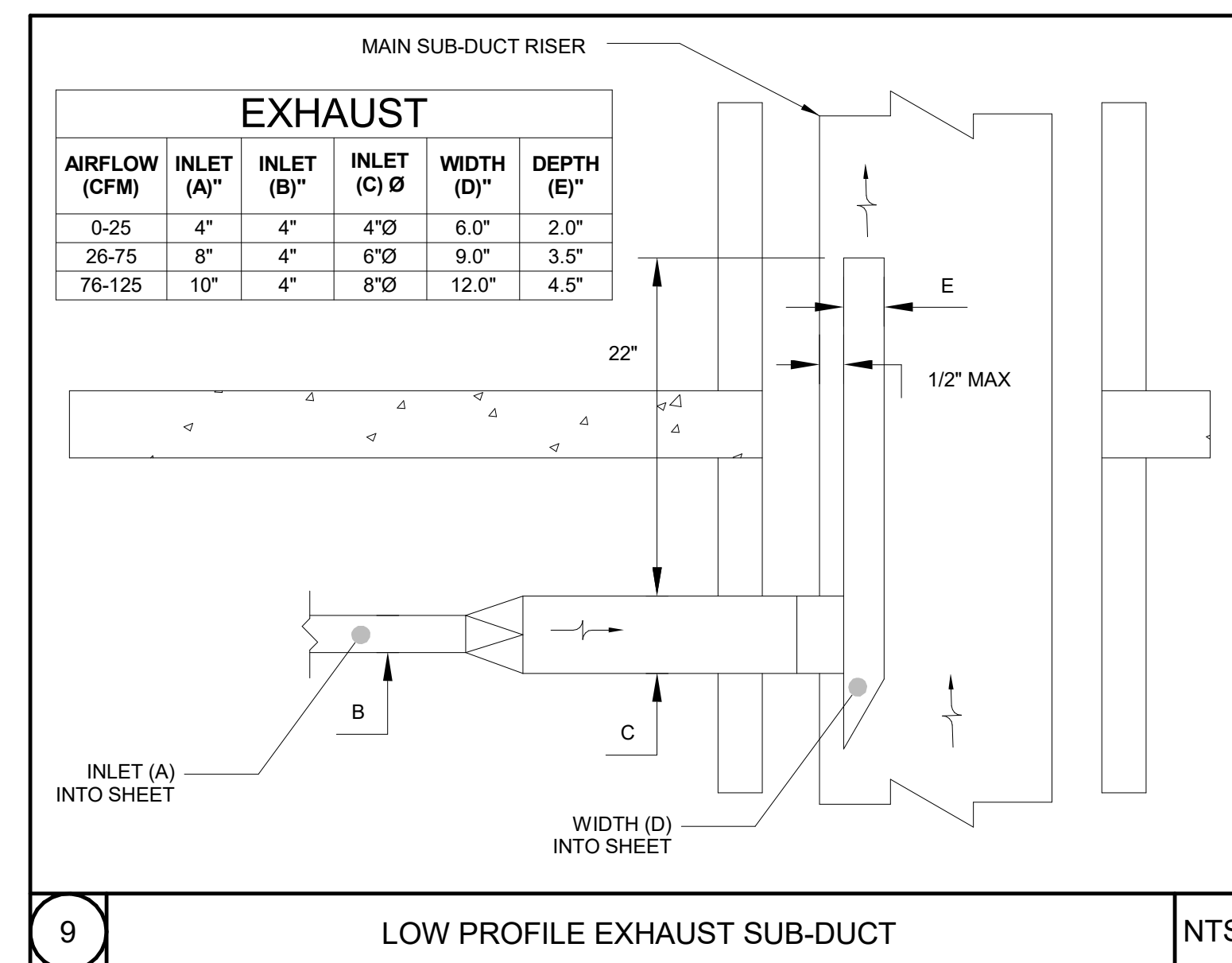
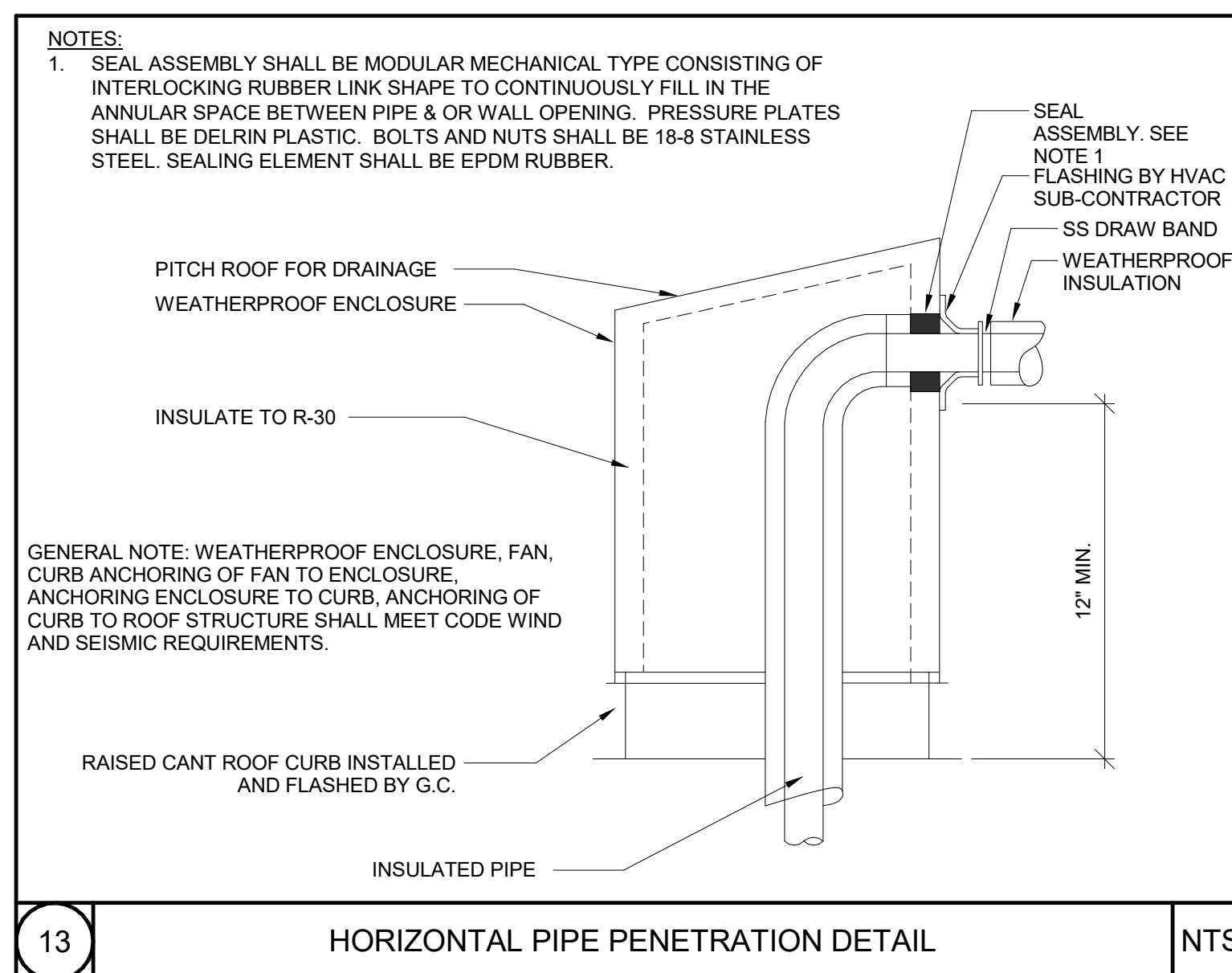
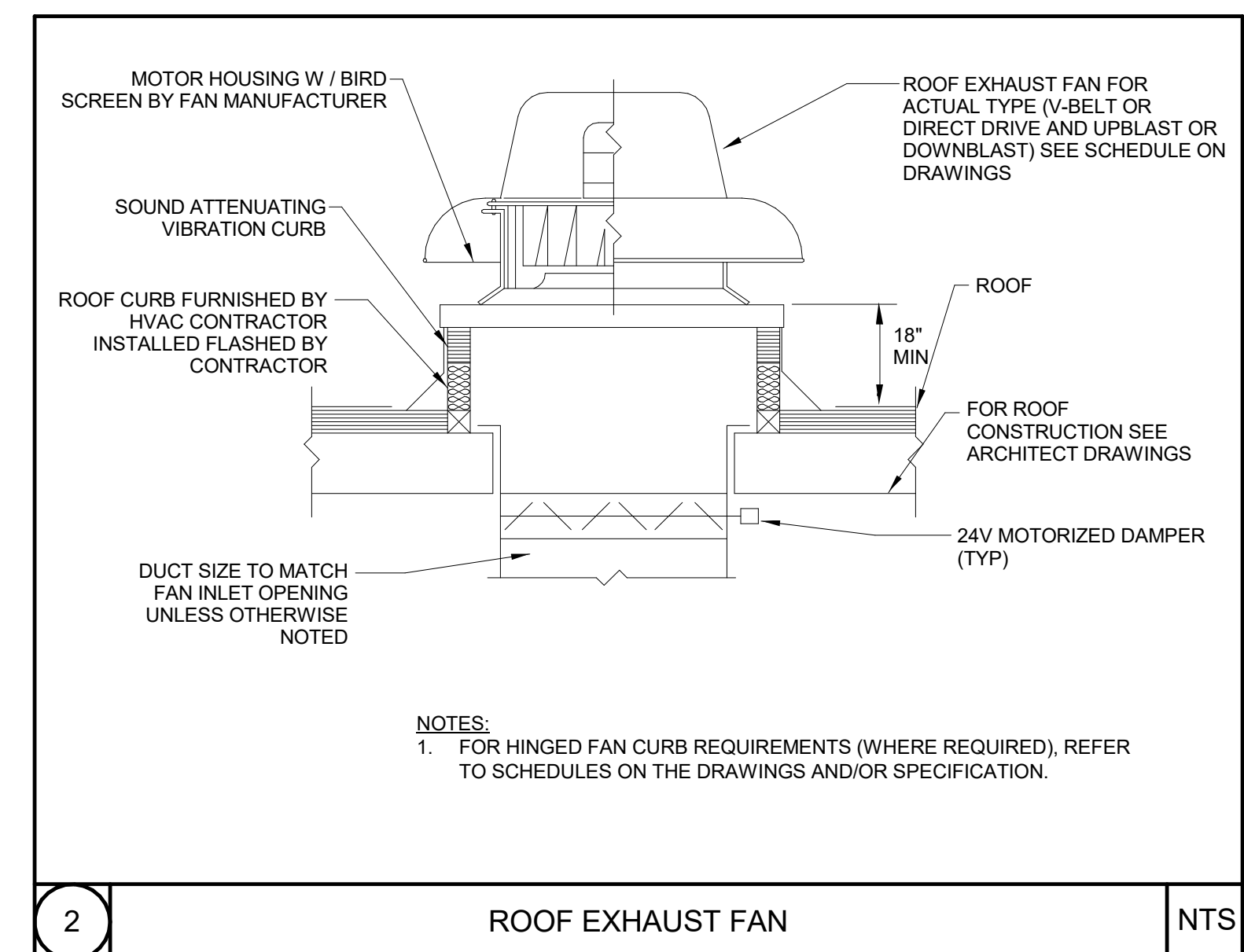
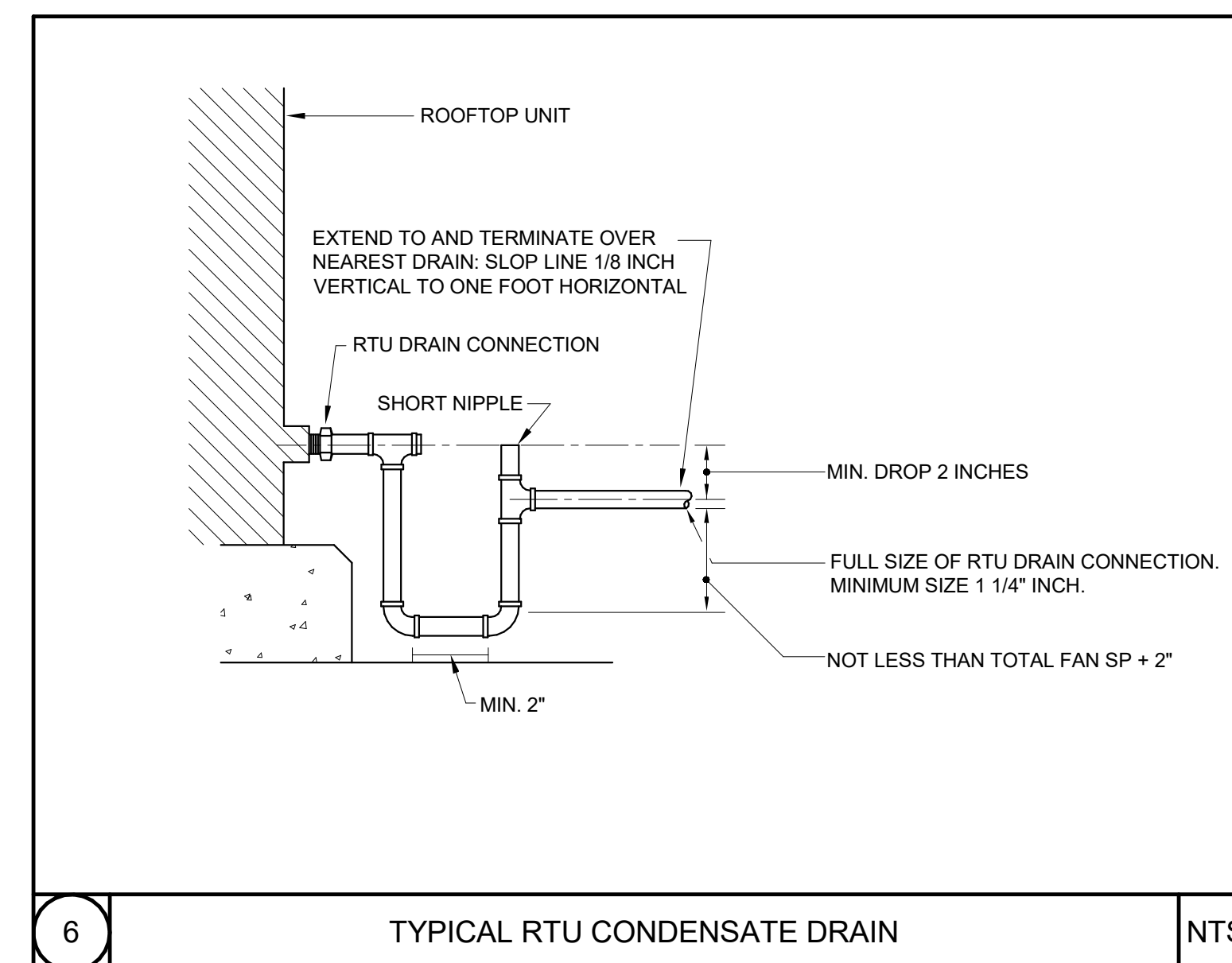
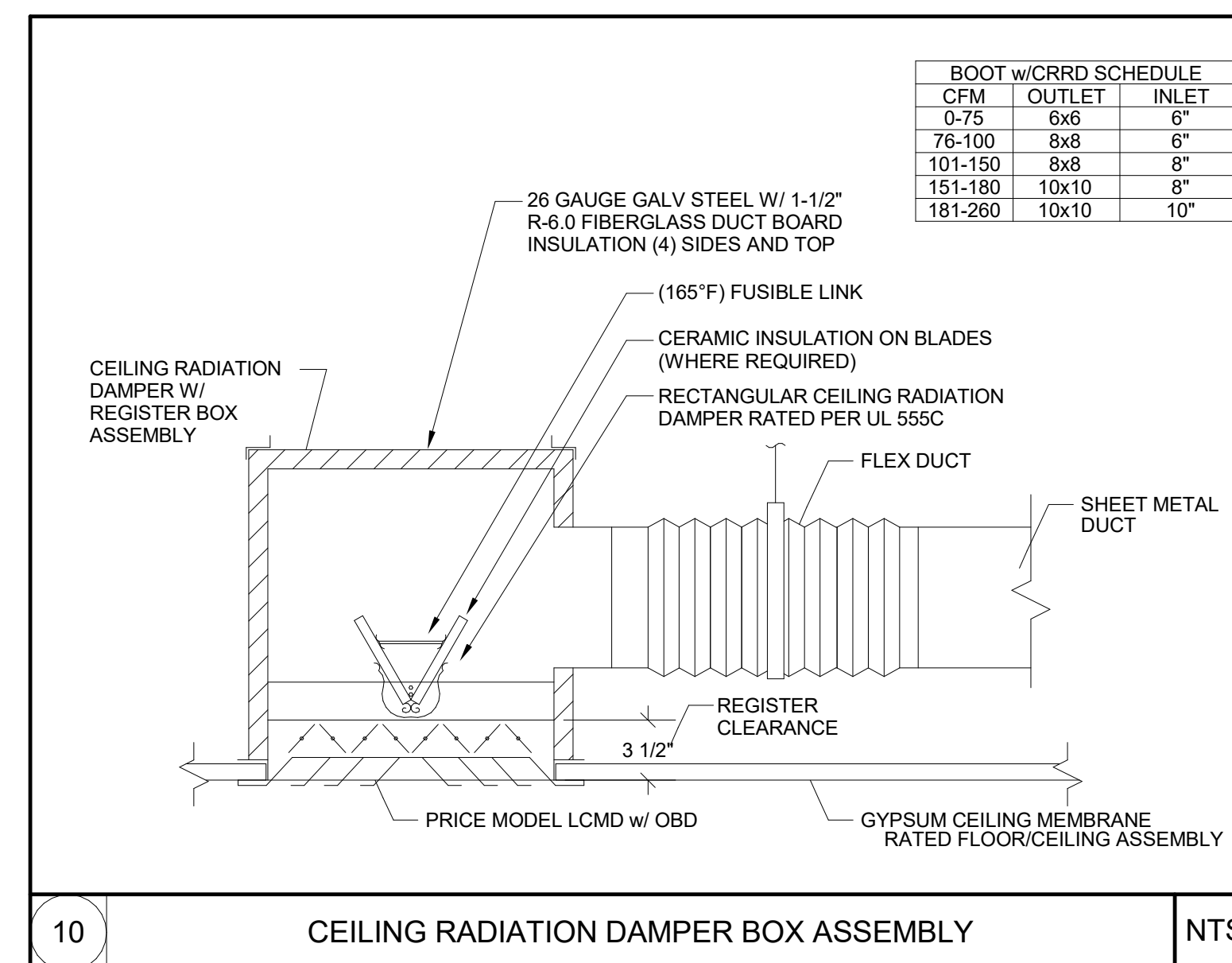
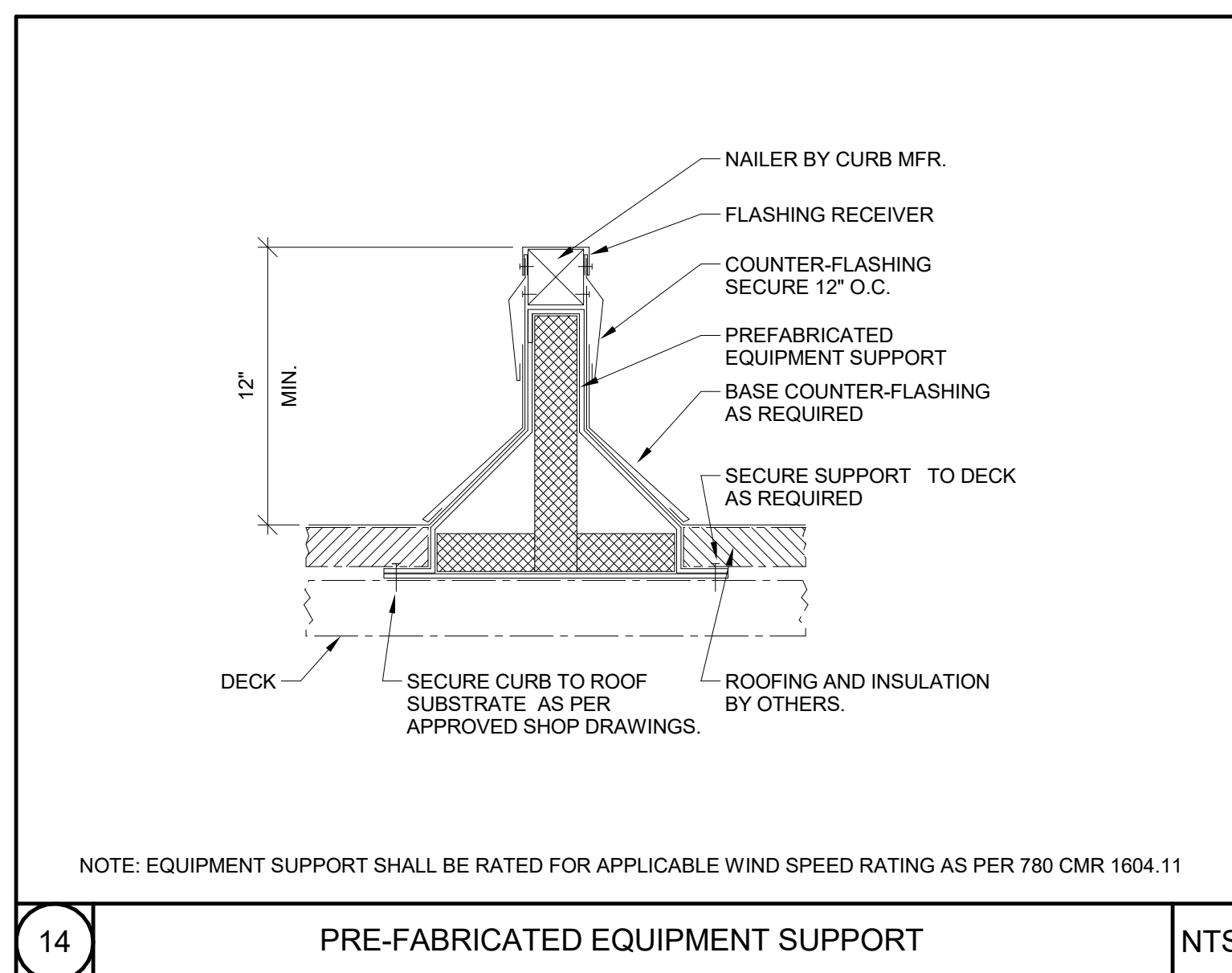
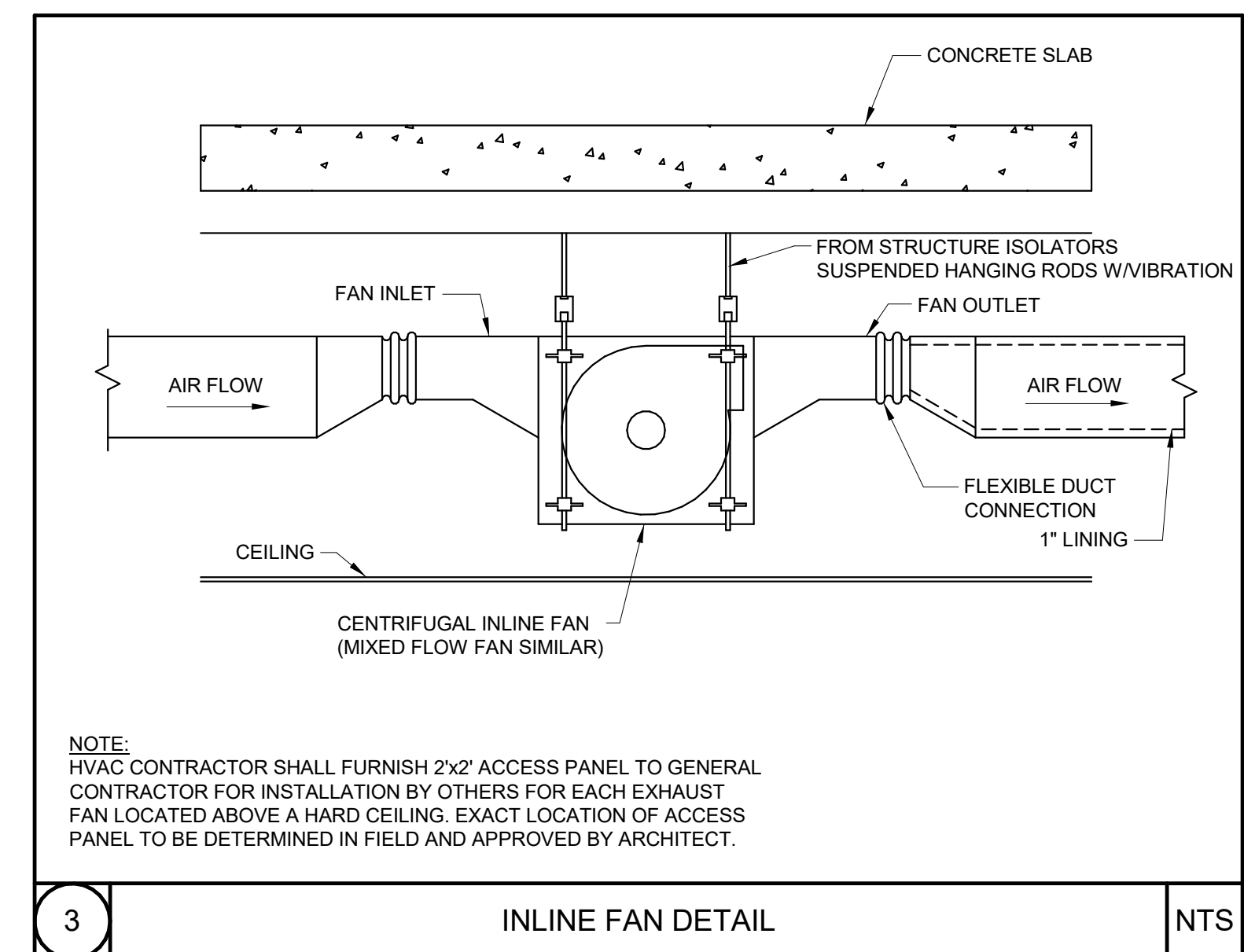
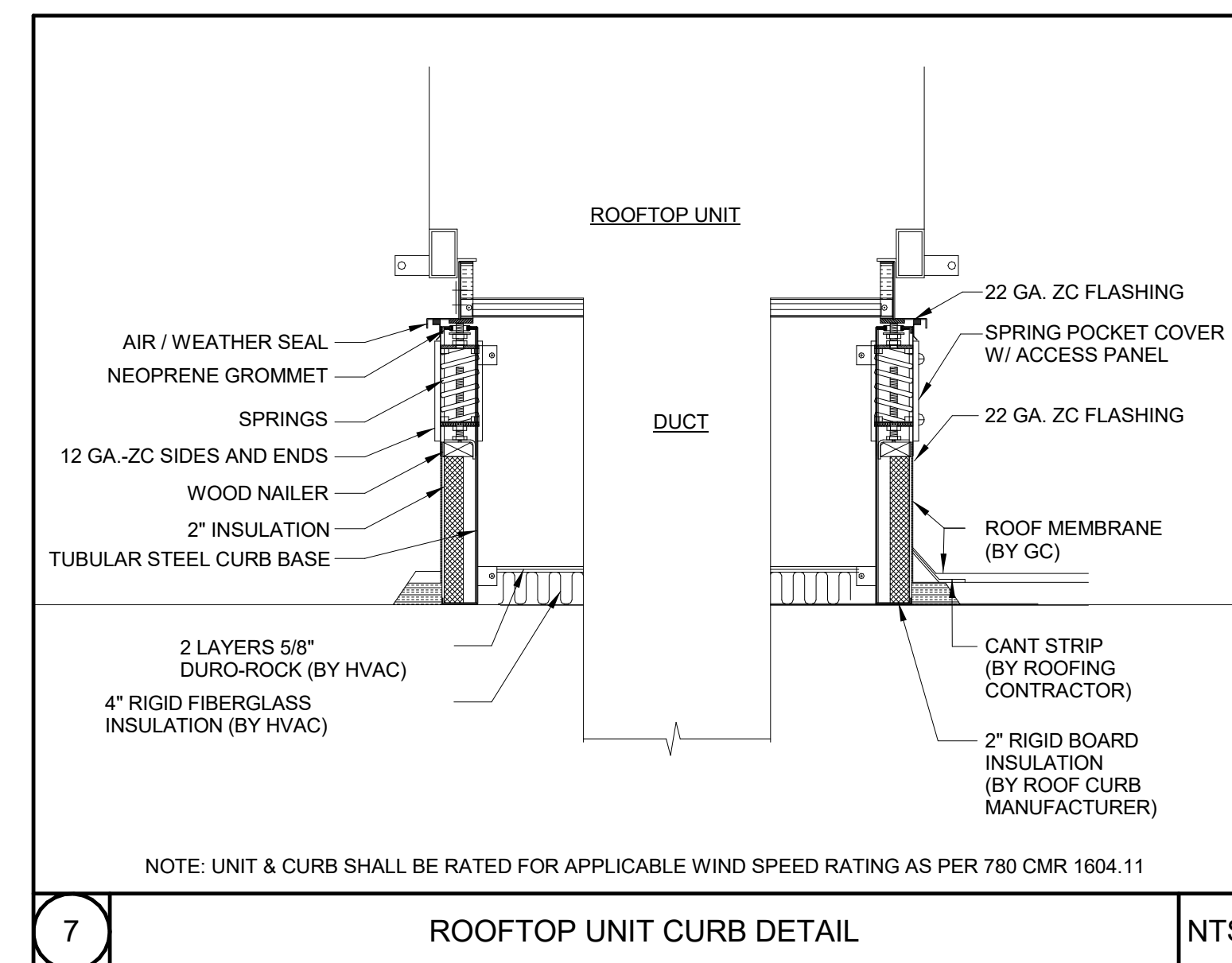
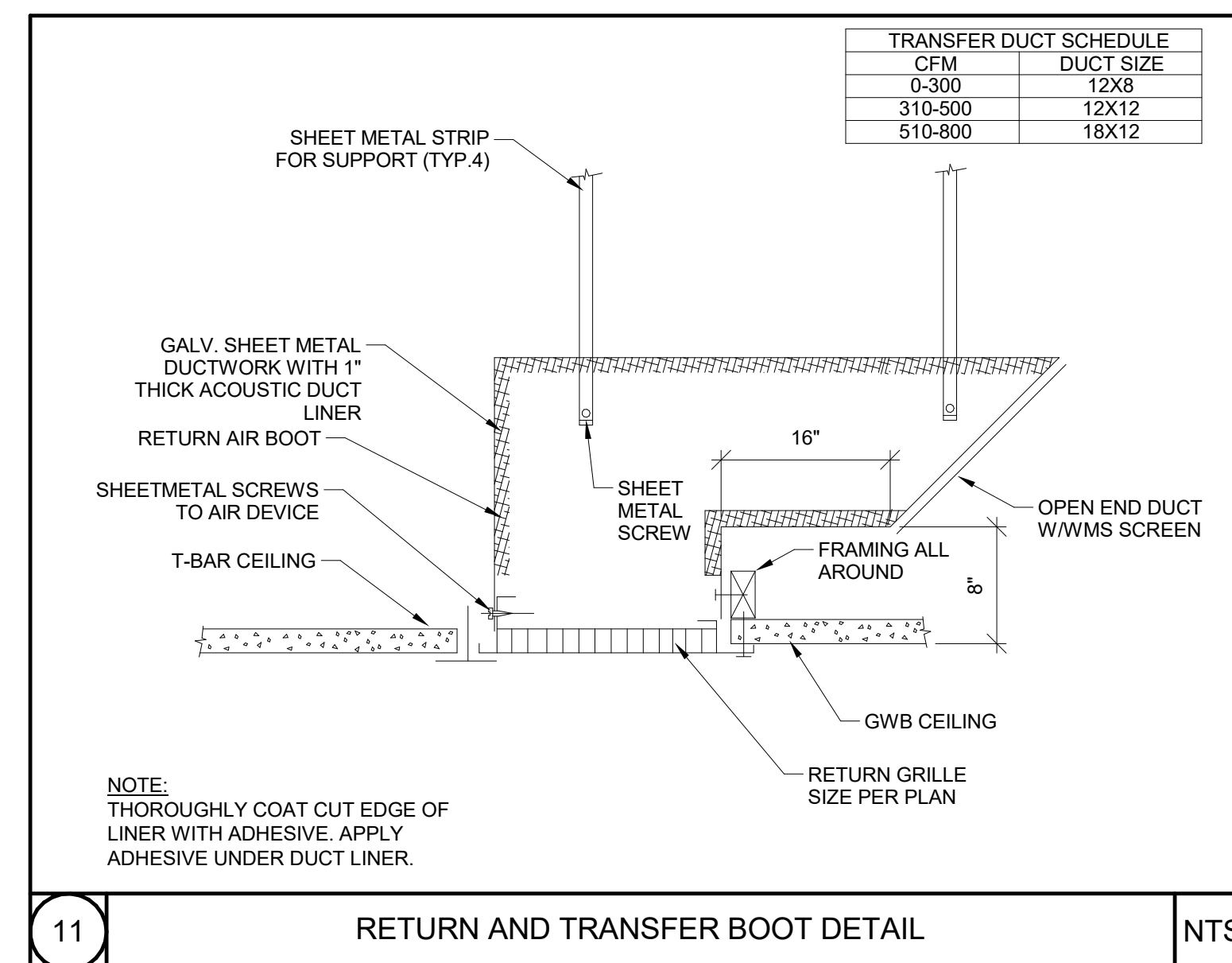
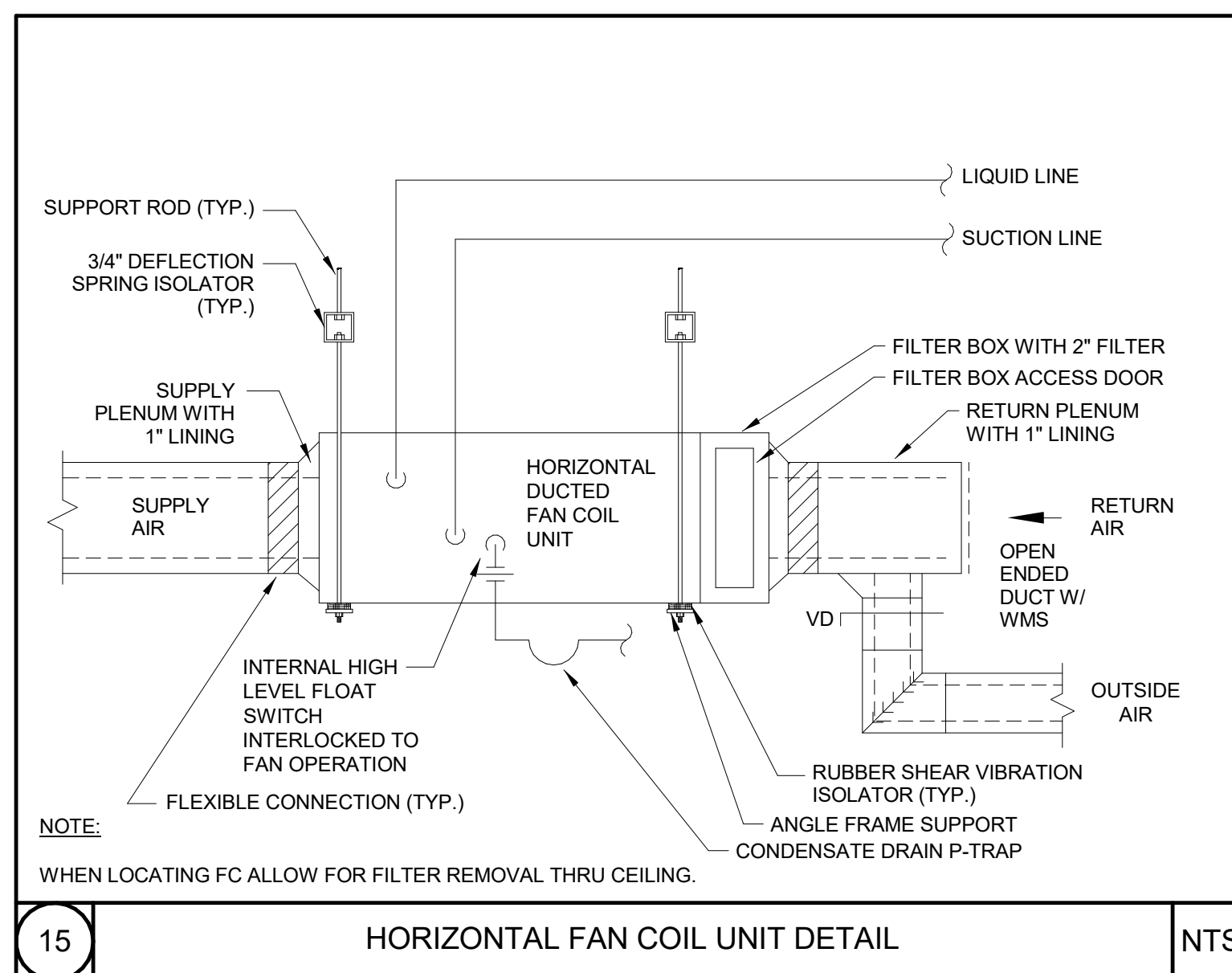
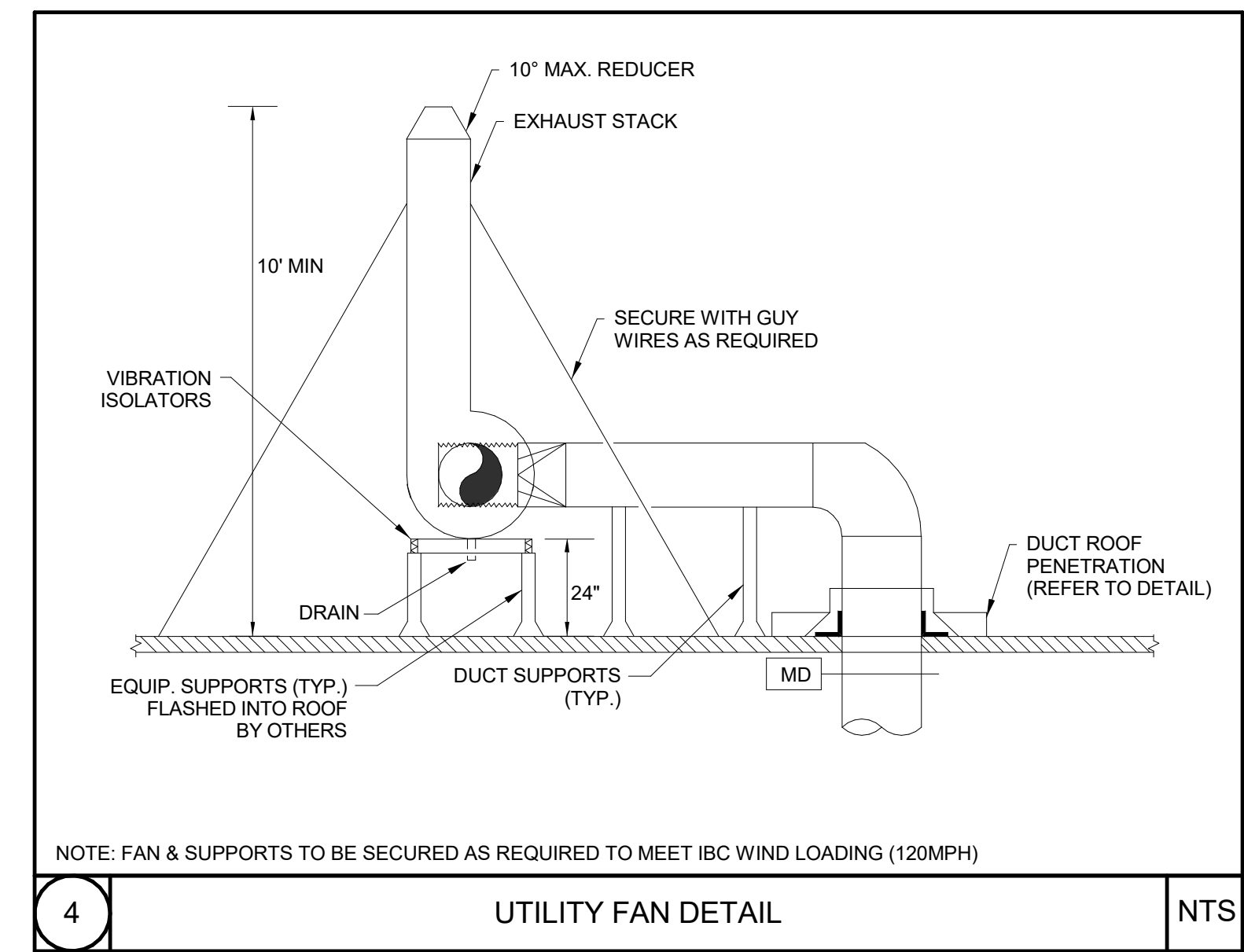
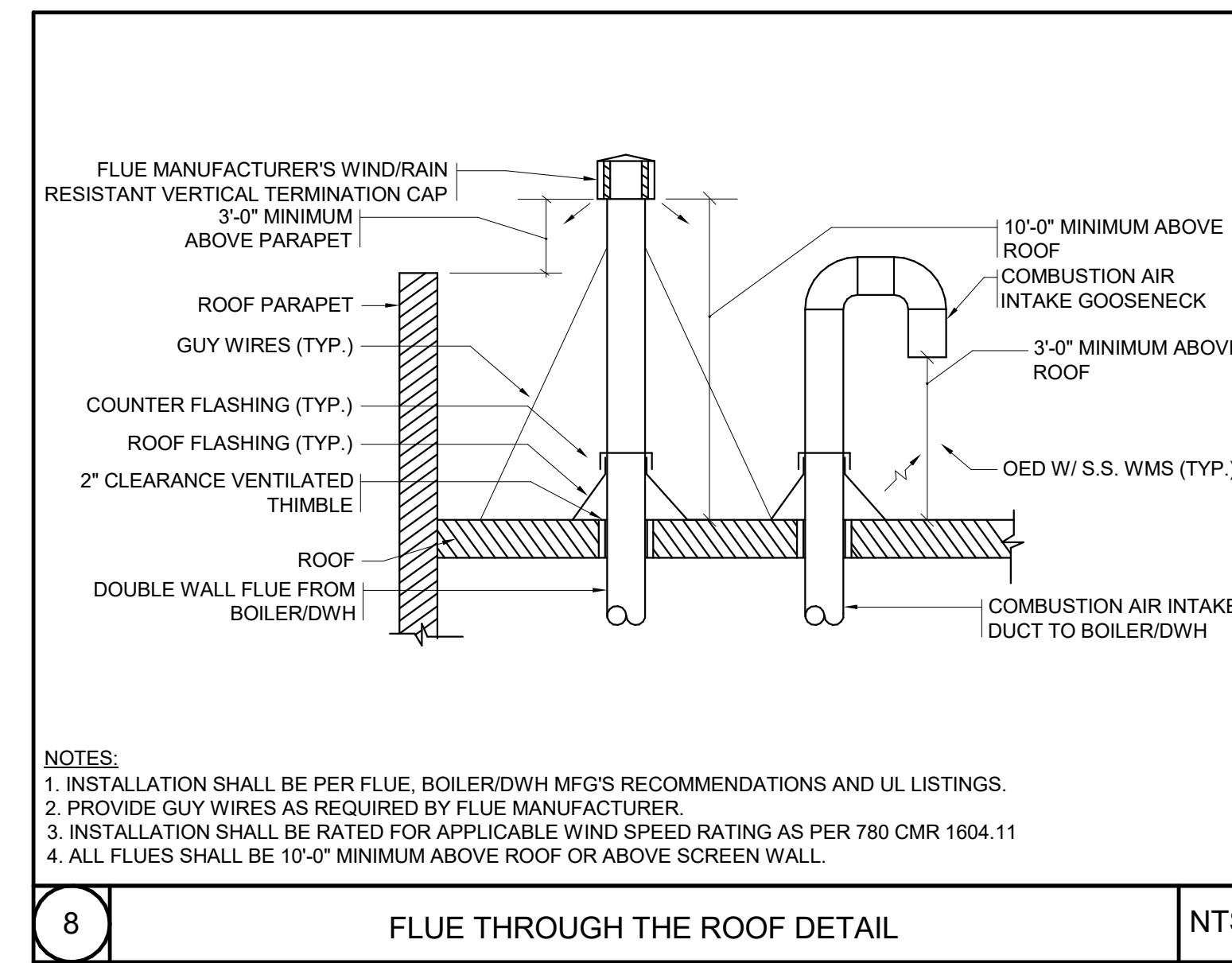
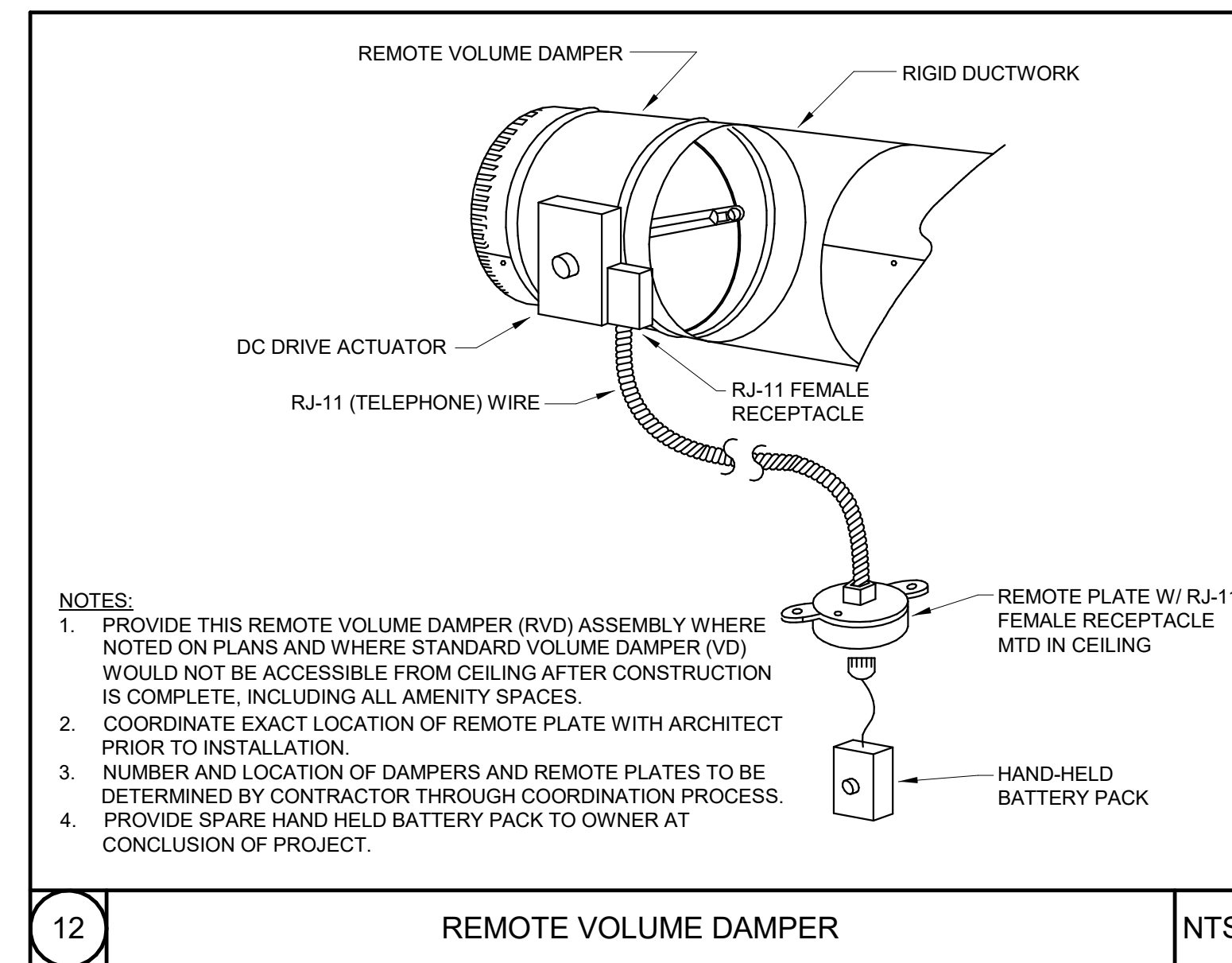
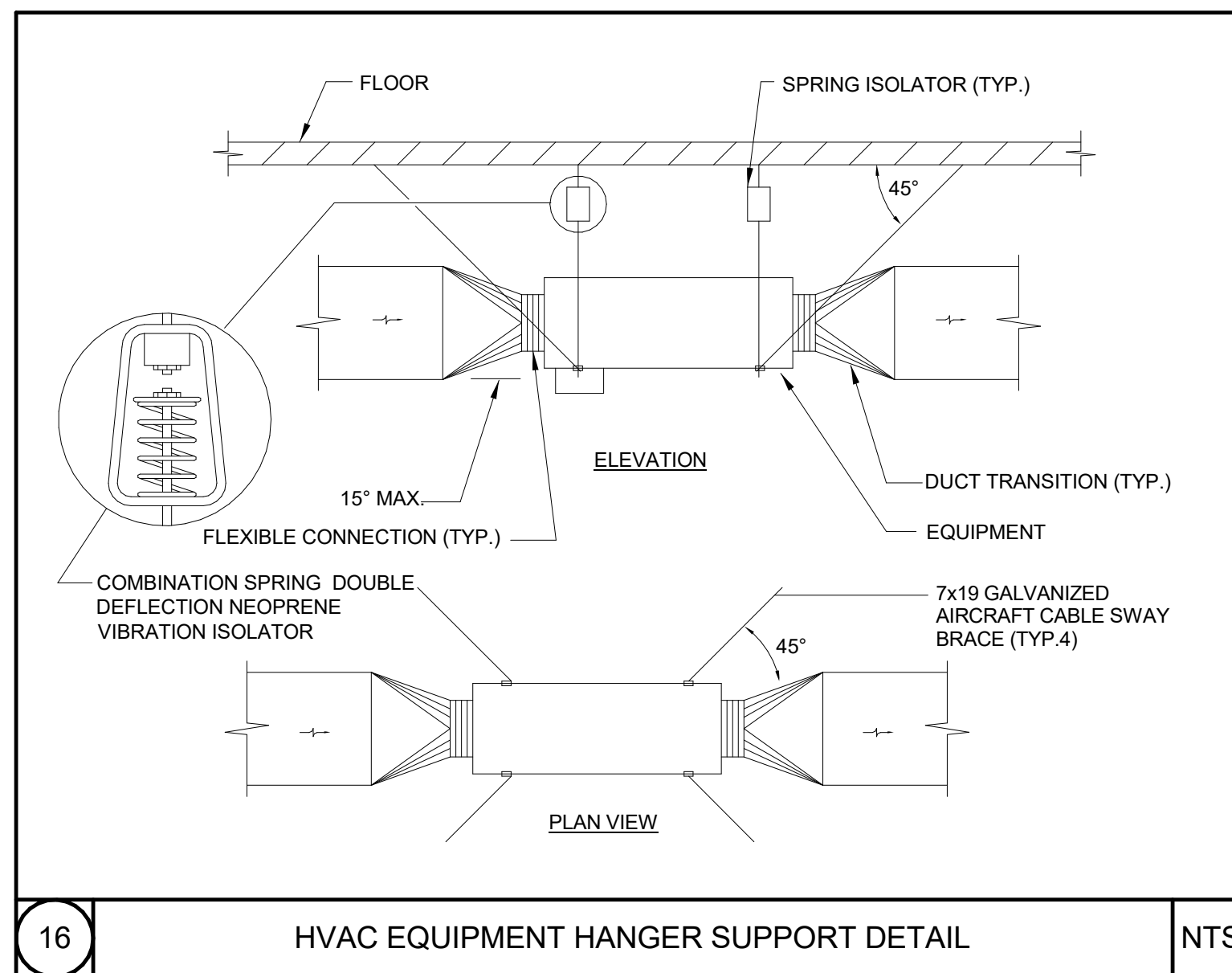
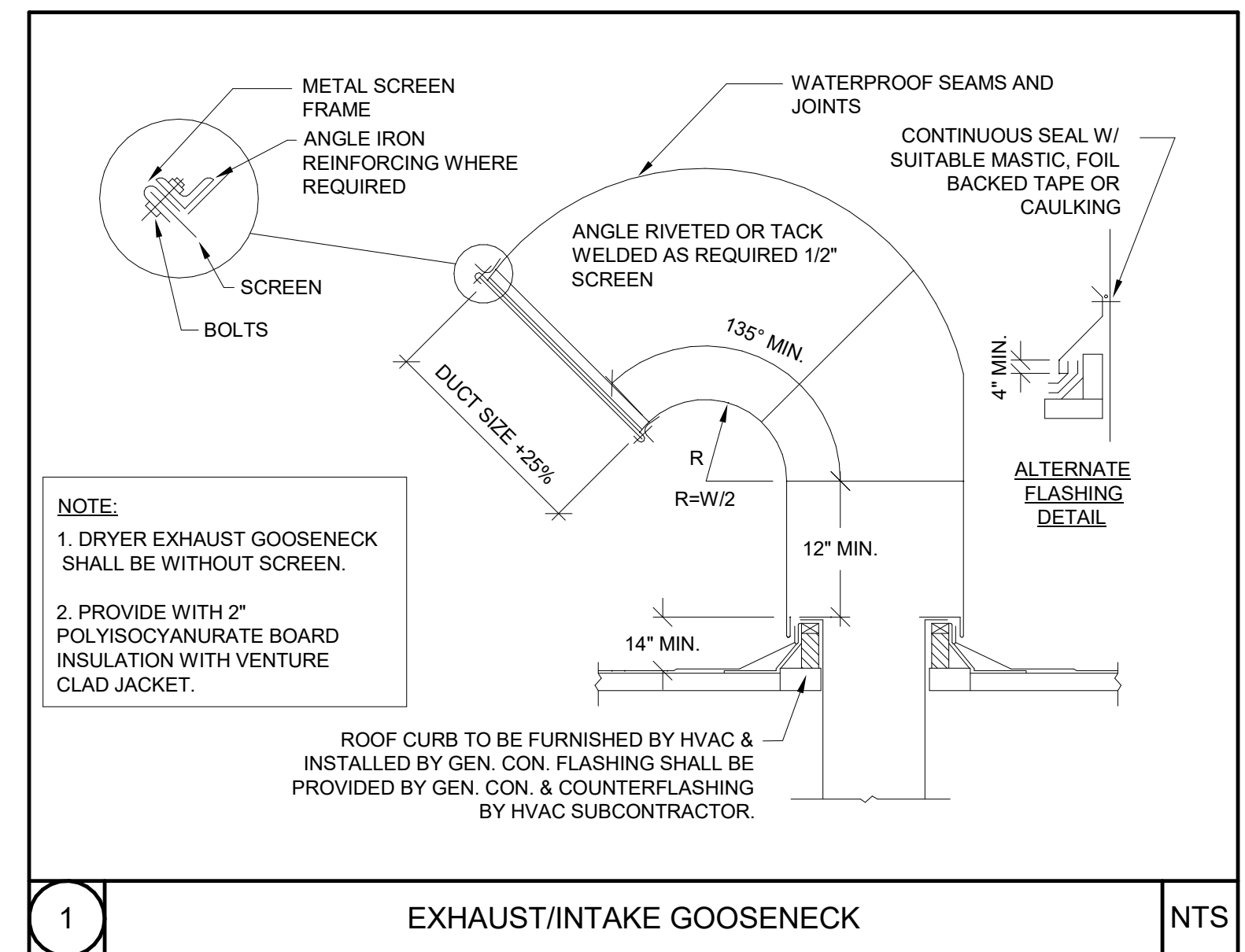


Notes





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NORTH SECOND STREET
(PUBLIC - 40' WIDE)

117 UNION ST
NEW BEDFORD, MA

ON (PUBLIC - 60' WIDE) **STREET**

DUCTBANK DETAIL "A-A"

NTS

DUCTBANK DETAIL "B-B"

NTS

DUCTBANK DETAIL "C-C"

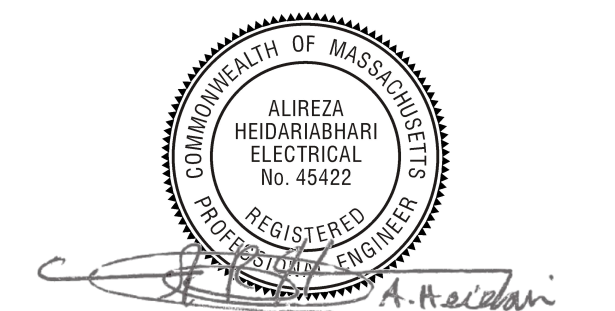
NTS

1. CONTRACTOR SHALL COORDINATE WITH UTILITY WORK ORDER FOR ENGINEER PRIMARY SYSTEM DESIGN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND LABOR RELATED TO "CUSTOMER" RELATED ITEMS ON THE UTILITY WORK ORDER.
3. COORDINATE WITH CIVIL DRAWINGS AND OWNER FOR TELECOMMUNICATION SERVICES. ALL TELECOMMUNICATION SERVICE CONDUIT SHALL BE PROVIDED TO EACH SERVICE PROVIDER UTILITY CONNECTION POINT RESPECTIVELY.
4. ELECTRICAL SITE PLAN IS DIAGRAMMATIC. COORDINATE ALL UTILITY SERVICES AND ROUTING WITH UTILITIES AND GENERAL CONTRACTOR. THIS DRAWING SHOWS PROPOSED CONDUIT ROUTING. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS AND BE RESPONSIBLE OF ACTUAL ROUTING TO AVOID ALL CONFLICTS WITH OTHER TRADES. CONTRACTOR'S MEANS OF METHOD MAY ALLOW CONDUIT SYSTEM INSTALLED ABOVE THE CEILING IN LIEU OF UNDERGROUND CONDUIT DISTRIBUTION SYSTEM.
5. CONTRACTOR SHALL COORDINATE WITH CIVIL, LANDSCAPE AND ARCHITECTURAL DRAWINGS.
6. ALL PRIMARY, SECONDARY, TELCCOM SERVICE CONDUITS SHALL BE ENCASED IN CONCRETE DUCTBANK WITH SPACERS AND MAGNETIC WARNING TAPE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
7. PROVIDE PULL STRINGS FOR ALL EMPTY CONDUITS.
8. ALL UNDERGROUND CONDUITS WITH ELBOWS AND OFFSETS GREATER THAN 30 DEGREES SHALL BE RIGID METALLIC CONDUIT (RMC) ELBOWS AND OFFSETS.
9. ALL CONDUITS PENETRATING INTO THE BUILDING SHALL BE TOTALLY SEALED WITH THRU-WALL AND THRU-FLOOR FITTINGS, AND WATERPROOFING SHALL BE APPLIED ON THE CONDUIT FROM FACE OF THE BUILDING TO 5' 0" BEYOND.
10. ALL PENETRATIONS THROUGH FLOOR SLABS, FOUNDATION WALLS OR MANHOLE WALLS SHALL BE RIGID METALLIC CONDUITS. PROVIDE CHANGEOVER COUPLINGS AND RIGID METALLIC CONDUIT (RMC) AS REQUIRED.
11. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. REFER TO ARCHITECTURAL PLANS AND ELECTRICAL PLANS FOR LOCATIONS OF BUILDING MOUNTED LIGHT FIXTURES.
13. CONTRACTOR SHALL PROVIDE ALL HANDHOLES. ALL HANDHOLES CONTAINING UTILITY SERVICES SHALL BE UTILITY APPROVED AND COMPLY WITH THE RESPECTIVE UTILITY STANDARDS AND REQUIREMENTS.

[illegible]

1	ISSUED FOR CONSTRUCTION	09/09/2022
	Issued/Revision	YYYY.MM.DD

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Scale	As indicated
Project No.	218421128

ELECTRICAL
SITE PLAN

E-001



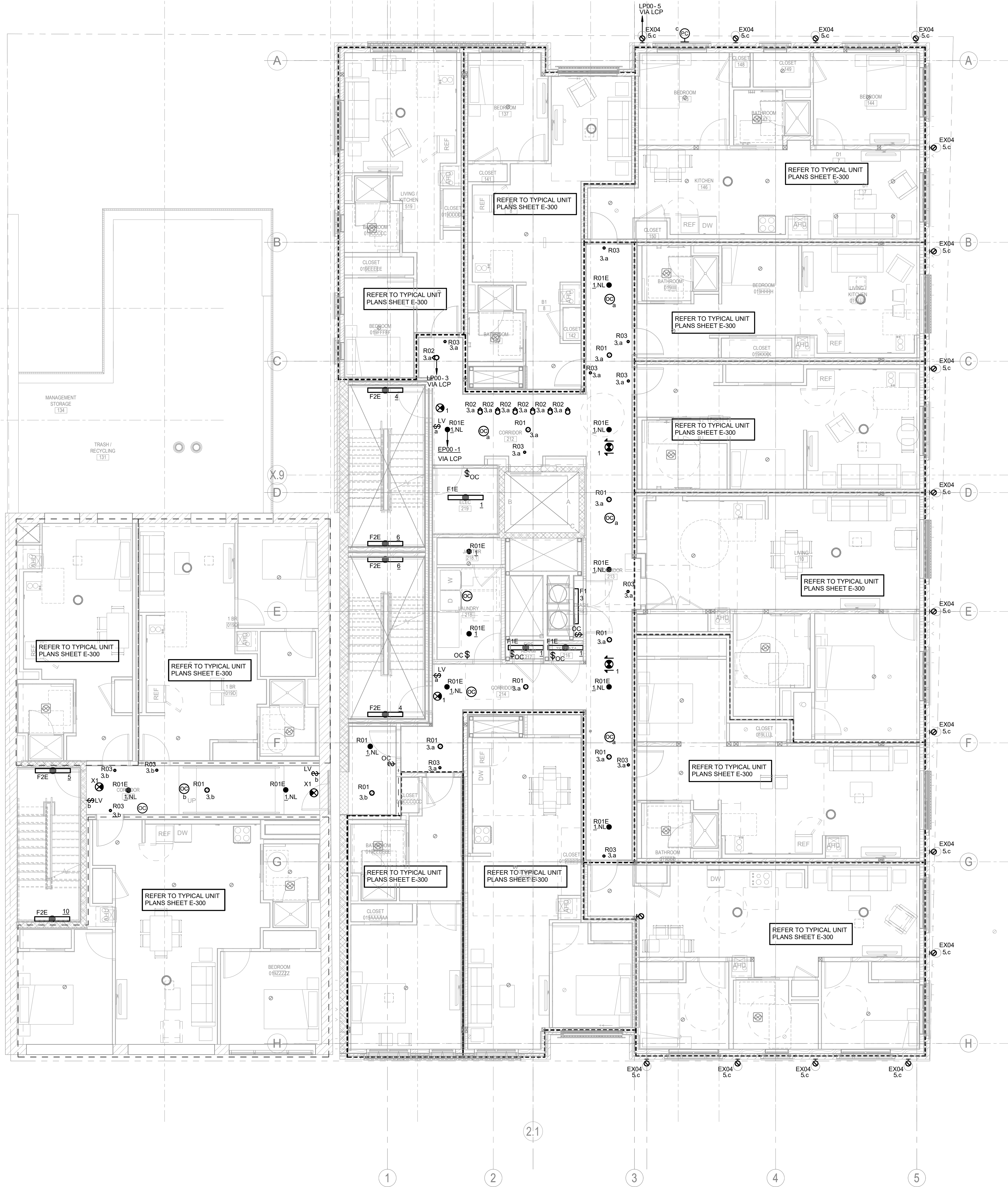
© 2018 Stanley

1 ELECTRICAL LIGHTING LEVEL 1
3/16" = 1'-0"

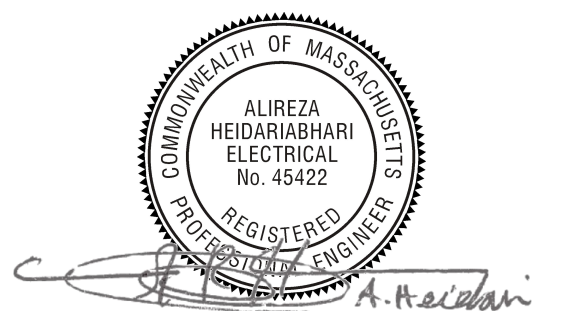
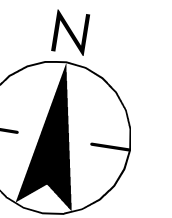
6
5
4
3
2
1

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E0-000 FOR LEGEND AND GENERAL NOTES.
2. LIGHT FIXTURES SHALL BE INSTALLED AT MOUNTING HEIGHTS AND LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, PART PLANS AND DETAILS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
3. CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. CONTRACTOR SHALL FIELD DETERMINE EXACT NUMBERS IN THE FIELD WITH CIRCUITS MADE SPARE FROM DEMOLITION AND SHALL BE NOTED ON THE CONTRACTORS' AS-BUILT DRAWINGS.
4. EXIT SIGNS SHALL BE CONNECTED TO AN UNSWITCHED, CONSTANT "ON" SOURCE AS INDICATED. PROVIDE NEW HANDLE LOCK ON EXISTING CIRCUIT BREAKER.
5. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM VOLTAGE DROP OF 3%. CONTRACTOR SHALL PROVIDE #10AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 60 FEET IN LENGTH AND #10AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 140 FEET IN LENGTH. CONTRACTOR SHALL PROVIDE #8AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 100 FEET IN LENGTH, BUT LESS THAN 160 FEET IN LENGTH AND #8AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 205 FEET, BUT LESS THAN 350 FEET IN LENGTH. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
6. CEILINGS SHALL NOT BE PERMITTED TO BE PROVIDED WITH ACCESS PANELS WITHOUT APPROVAL FROM ARCHITECT. JUNCTION BOXES TO BE LOCATED ABOVE ACCESSIBLE CEILINGS.
7. CORRIDOR LIGHT FIXTURES DESIGNATED AS (NL) SHALL AUTOMATICALLY DIM TO 50% UPON SENSOR DETECTING NO OCCUPANCY FOR 30 MINUTES AND SHALL BE SET FOR AUTOMATIC FULL ON AND MANUAL ON TO 100%.
8. CORRIDOR LIGHT FIXTURES NOT DESIGNATED AS (NL) SHALL AUTOMATICALLY DIM TO 30% UPON SENSOR DETECTING NO OCCUPANCY FOR 30 MINUTES AND SHALL BE PROVIDED MANUAL ON, OFF, AND ONE PRESET SCENE AT EACH CORRIDOR EXIT.
9. PROVIDE 0-10V DIMMING CONTROL WIRING FOR THE DESIGNATED LIGHTING FIXTURE ZONES.
10. PROVIDE ROOM CONTROLLER TYPES AND QUANTITIES WITH NUMBER OF RELAYS AND VOLTAGE RATINGS AS REQUIRED TO ACHIEVE THE DESIGN INTENT.
11. COORDINATE EACH LIGHT FIXTURE DIMMING PROTOCOL WITH FINAL APPROVED LIGHTING SUBMITTAL PACKAGES.
12. ROOM CONTROLLERS WITH DIMMING CAPABILITIES THAT SERVE EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM FOR AUTOMATIC OVERRIDE TO FULL 100% ON.
13. ALL LIGHTING PRESET DIMMING LEVEL AND DAYLIGHT CONTROL DIMMING LEVELS SHALL BE FIELD COMMISSIONED WITH OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL INCLUDE IN THEIR BID A SECOND FIELD COMMISSIONING VISIT SIX MONTHS AFTER OWNER OCCUPANCY FOR OWNER REQUESTED ADJUSTMENTS.
15. REFER TO LIGHTING CONTROL MANUFACTURER'S INSTRUCTIONS FOR ALL WIRING AND INSTALLATION REQUIREMENTS TO COMPLETE THE SYSTEM TO BE FULLY FUNCTIONAL AND OPERATING.
16. LIGHTING CONTROL SUBMITTALS SHALL INCLUDE PROJECT SPECIFIC LIGHTING CONTROL SYSTEM RISER DIAGRAMS INDICATING ALL WIRING, COMPONENTS AND EQUIPMENT ROOM LOCATIONS. LIGHTING CONTROL SUBMITTALS WILL NOT BE REVIEWED WITHOUT RISER DIAGRAM.
17. LIGHTING CONTROL SUBMITTALS SHALL INCLUDE A PROJECT SPECIFIC FLOOR PLAN LAYOUT OF DEVICES WITH LEGEND AND SYMBOLS INDICATING EACH DEVICE TYPE AND LOCATION. LIGHTING CONTROL SUBMITTALS WILL NOT BE REVIEWED WITHOUT FLOOR PLAN LAYOUTS.
18. ALL EMERGENCY LIGHTING SHALL BE PROVIDED WITH UNSWITCHED SAME PHASE- SAME CIRCUIT POWER INPUT.

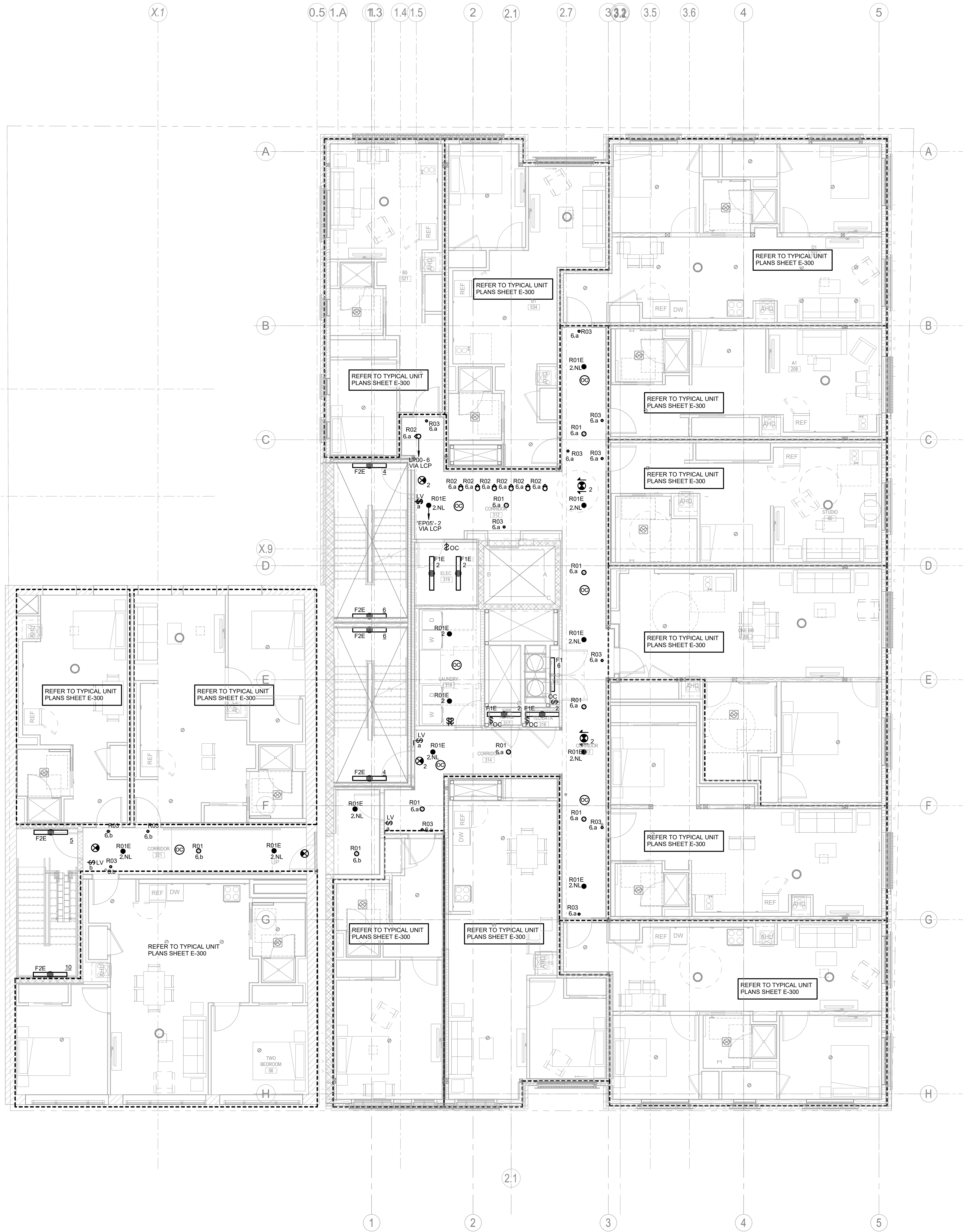


1 ELECTRICAL LIGHTING LEVEL 2
3/16" = 1'-0"

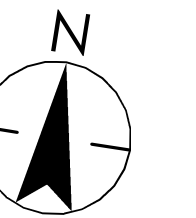


LIGHTING PLAN NOTES:

1. REFER TO DRAWING E0-000 FOR LEGEND AND GENERAL NOTES.
2. LIGHT FIXTURES SHALL BE INSTALLED AT MOUNTING HEIGHTS AND LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, PART PLANS AND DETAILS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
3. CIRCUIT NUMBERS ARE SHOWN FOR DESCRIPTIVE PURPOSES ONLY. CONTRACTOR SHALL FIELD DETERMINE EXACT NUMBERS IN THE FIELD WITH CIRCUITS MADE SPARE FROM DEMOLITION AND SHALL BE NOTED ON THE CONTRACTORS' AS-BUILT DRAWINGS.
4. EXIT SIGNS SHALL BE CONNECTED TO AN UNSWITCHED, CONSTANT "ON" SOURCE AS INDICATED. PROVIDE NEW HANDLE LOCK ON EXISTING CIRCUIT BREAKER.
5. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM VOLTAGE DROP OF 3%. CONTRACTOR SHALL PROVIDE #10AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 60 FEET IN LENGTH AND #10AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 140 FEET IN LENGTH. CONTRACTOR SHALL PROVIDE #8AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 100 FEET IN LENGTH, BUT LESS THAN 160 FEET IN LENGTH AND #8AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 225 FEET, BUT LESS THAN 350 FEET IN LENGTH. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
6. CEILING SHALL NOT BE PERMITTED TO BE PROVIDED WITH ACCESS PANELS WITHOUT APPROVAL FROM ARCHITECT. JUNCTION BOXES TO BE LOCATED ABOVE ACCESSIBLE CEILINGS.
7. CORRIDOR LIGHT FIXTURES DESIGNATED AS (NL) SHALL AUTOMATICALLY DIM TO 50% UPON SENSOR DETECTING NO OCCUPANCY FOR 30 MINUTES AND SHALL BE SET FOR AUTOMATIC FULL ON AND MANUAL ON TO 100%.
8. CORRIDOR LIGHT FIXTURES NOT DESIGNATED AS (NL) SHALL AUTOMATICALLY DIM TO 30% UPON SENSOR DETECTING NO OCCUPANCY FOR 30 MINUTES AND SHALL BE PROVIDED MANUAL ON, OFF, AND ONE PRESET SCENE AT EACH CORRIDOR EXIT.
9. PROVIDE 0-10V DIMMING CONTROL WIRING FOR THE DESIGNATED LIGHTING FIXTURE ZONES.
10. PROVIDE ROOM CONTROLLER TYPES AND QUANTITIES WITH NUMBER OF RELAYS AND VOLTAGE RATINGS AS REQUIRED TO ACHIEVE THE DESIGN INTENT.
11. COORDINATE EACH LIGHT FIXTURE DIMMING PROTOCOL WITH FINAL APPROVED LIGHTING SUBMITTAL PACKAGES.
12. ROOM CONTROLLERS WITH DIMMING CAPABILITIES THAT SERVE EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM FOR AUTOMATIC OVERRIDE TO FULL 100% ON.
13. ALL LIGHTING PRESET DIMMING LEVEL AND DAYLIGHT CONTROL DIMMING LEVELS SHALL BE FIELD COMMISSIONED WITH OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL INCLUDE IN THEIR BID A SECOND FIELD COMMISSIONING VISIT SIX MONTHS AFTER OWNER OCCUPANCY FOR OWNER REQUESTED ADJUSTMENTS.
15. REFER TO LIGHTING CONTROL MANUFACTURER'S INSTRUCTIONS FOR ALL WIRING AND INSTALLATION REQUIREMENTS TO COMPLETE THE SYSTEM TO BE FULLY FUNCTIONAL AND OPERATING.
16. LIGHTING CONTROL SUBMITTALS SHALL INCLUDE PROJECT SPECIFIC LIGHTING CONTROL SYSTEM RISER DIAGRAMS INDICATING ALL WIRING, COMPONENTS AND EQUIPMENT ROOM LOCATIONS. LIGHTING CONTROL SUBMITTALS WILL NOT BE REVIEWED WITHOUT RISER DIAGRAM.
17. LIGHTING CONTROL SUBMITTALS SHALL INCLUDE A PROJECT SPECIFIC FLOOR PLAN LAYOUT OF DEVICES WITH LEGEND AND SYMBOLS INDICATING EACH DEVICE TYPE AND LOCATION. LIGHTING CONTROL SUBMITTALS WILL NOT BE REVIEWED WITHOUT FLOOR PLAN LAYOUTS.
18. ALL EMERGENCY LIGHTING SHALL BE PROVIDED WITH UNSWITCHED SAME PHASE- SAME CIRCUIT POWER INPUT.



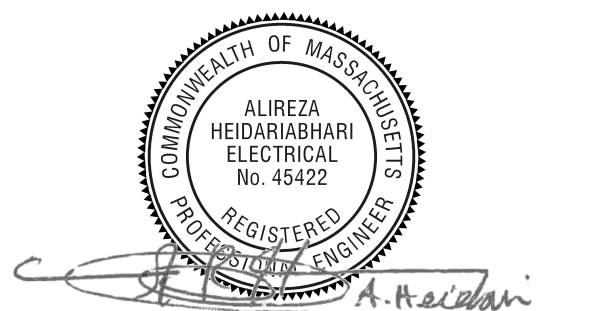
1 ELECTRICAL LIGHTING LEVEL 3
3/16" = 1'-0"



Notes

1 ISSUED FOR CONSTRUCTION 09/09/2022
Issued/Revision YYYMM.DD

Permit/Seal



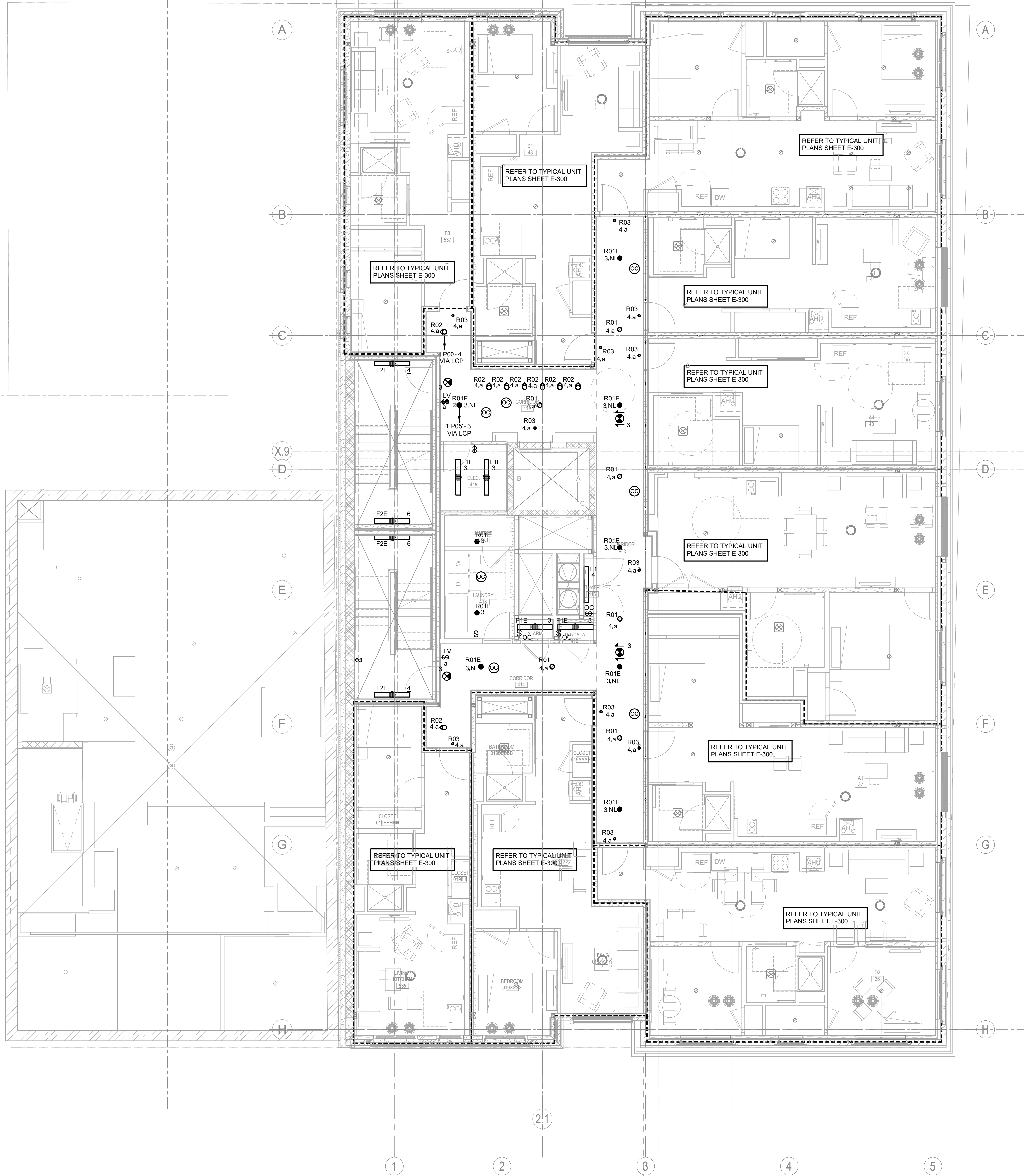
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Project No. 218421128

ELECTRICAL LIGHTING
FLOOR PLAN - LEVEL 3

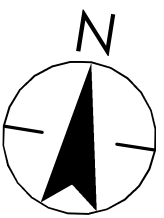
E-103

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E0-000 FOR LEGEND AND GENERAL NOTES.
2. LIGHT FIXTURES SHALL BE INSTALLED AT MOUNTING HEIGHTS AND LOCATIONS AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLANS, ELEVATIONS, PART PLANS AND DETAILS. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION.
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4. EXIT SIGNS SHALL BE CONNECTED TO AN UNSWITCHED, CONSTANT "ON" SOURCE AS INDICATED. PROVIDE NEW HANDLE LOCK ON EXISTING CIRCUIT BREAKER.
5. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM VOLTAGE DROP OF 3%. CONTRACTOR SHALL PROVIDE #10AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 60 FEET IN LENGTH AND #10AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 140 FEET IN LENGTH. CONTRACTOR SHALL PROVIDE #8AWG CONDUCTORS FOR ALL 120V CIRCUITS GREATER THAN 100 FEET IN LENGTH, BUT LESS THAN 160 FEET IN LENGTH AND #8AWG CONDUCTORS FOR ALL 277V CIRCUITS GREATER THAN 225 FEET, BUT LESS THAN 350 FEET IN LENGTH. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
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11. COORDINATE EACH LIGHT FIXTURE DIMMING PROTOCOL WITH FINAL APPROVED LIGHTING SUBMITTAL PACKAGES.
12. ROOM CONTROLLERS WITH DIMMING CAPABILITIES THAT SERVE EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM FOR AUTOMATIC OVERRIDE TO FULL 100% ON.
13. ALL LIGHTING PRESET DIMMING LEVEL AND DAYLIGHT CONTROL DIMMING LEVELS SHALL BE FIELD COMMISSIONED WITH OWNER'S REPRESENTATIVE.
14. CONTRACTOR SHALL INCLUDE IN THEIR BID A SECOND FIELD COMMISSIONING VISIT SIX MONTHS AFTER OWNER OCCUPANCY FOR OWNER REQUESTED ADJUSTMENTS.
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17. LIGHTING CONTROL SUBMITTALS SHALL INCLUDE A PROJECT SPECIFIC FLOOR PLAN LAYOUT OF DEVICES WITH LEGEND AND SYMBOLS INDICATING EACH DEVICE TYPE AND LOCATION. LIGHTING CONTROL SUBMITTALS WILL NOT BE REVIEWED WITHOUT FLOOR PLAN LAYOUTS.
18. ALL EMERGENCY LIGHTING SHALL BE PROVIDED WITH UNSWITCHED SAME PHASE- SAME CIRCUIT POWER INPUT.



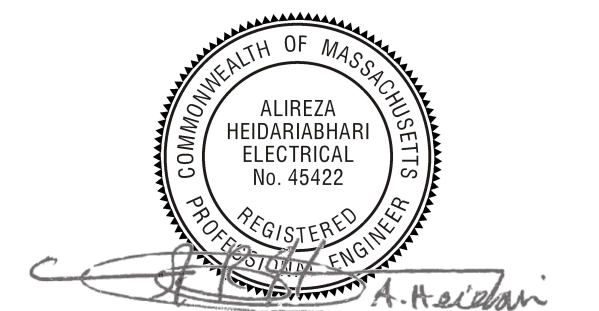
1 ELECTRICAL LIGHTING LEVEL 4
3/16" = 1'-0"



Notes

1 ISSUED FOR CONSTRUCTION 09/09/2022
Issued/Revision YYYTJAM.DD

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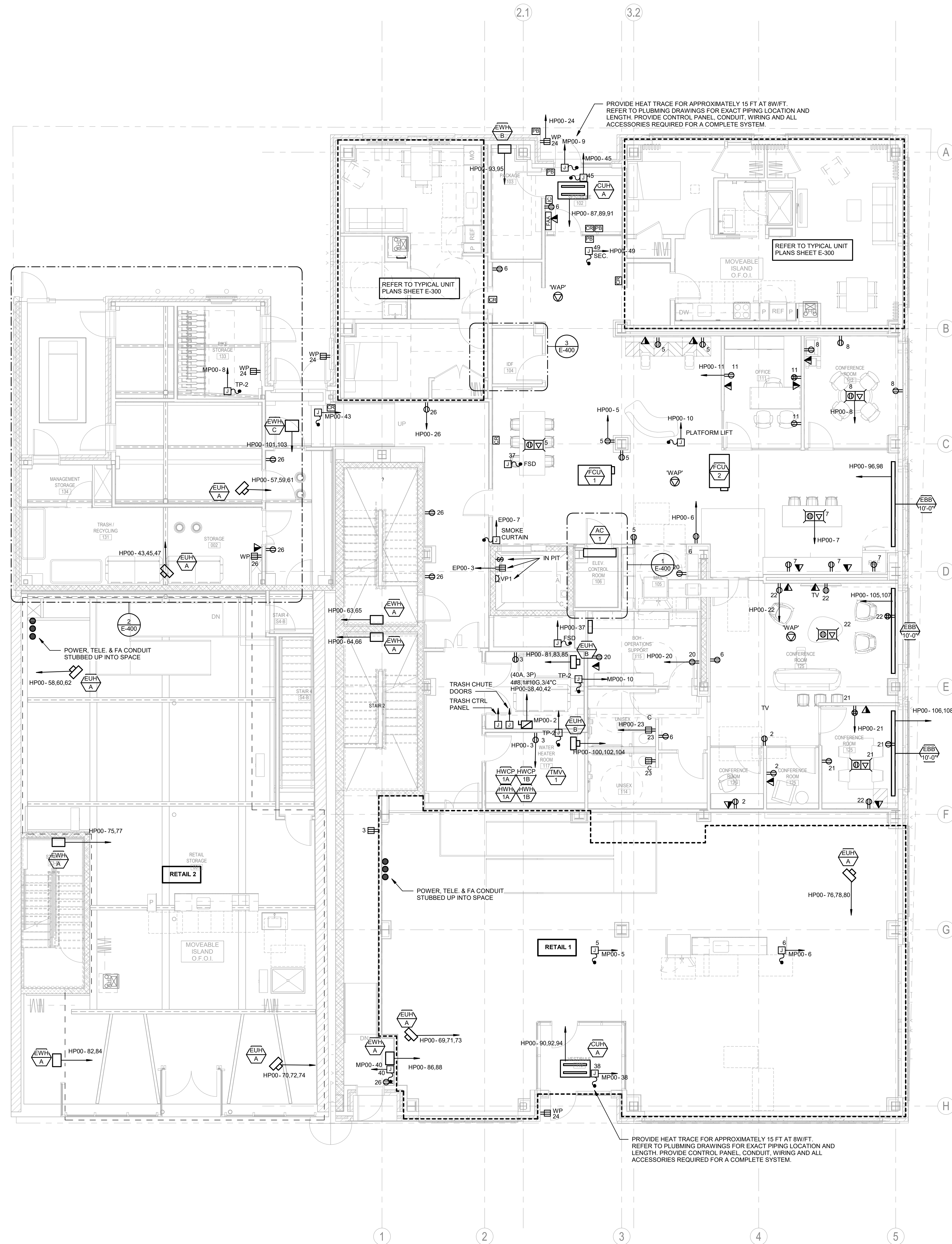
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Project No. 218421128

**ELECTRICAL LIGHTING
FLOOR PLAN - LEVEL 4**

E-104

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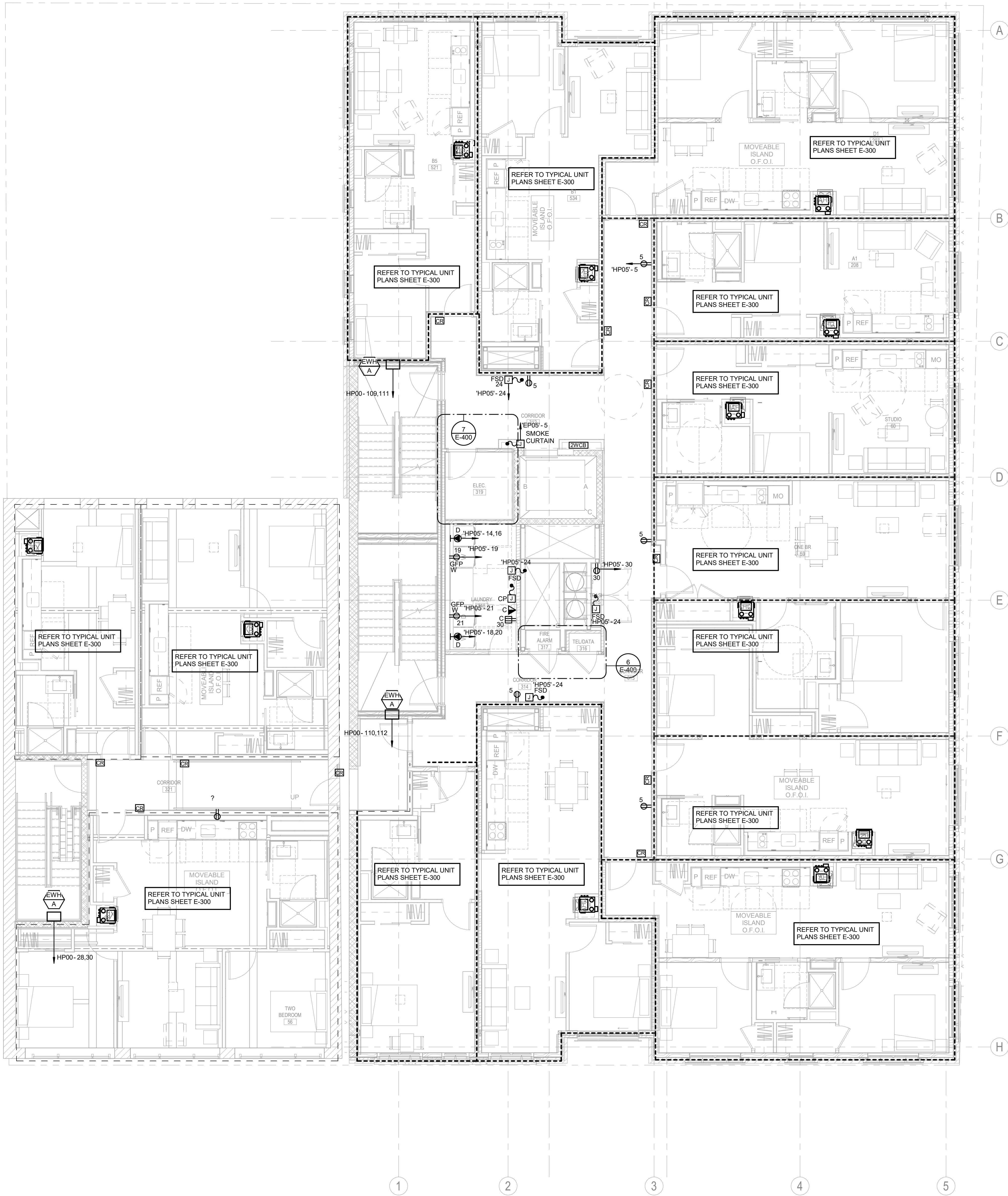
1 ELECTRICAL POWER LEVEL 1
3/16" = 1'-0"



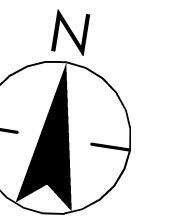
© 2018 Siente

POWER PLAN NOTES

1. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN.
2. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE NOTED ON THE CONTRACTORS AS-BUILT DRAWINGS.
3. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
4. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION DRAWINGS.
5. ALL RECEPTACLES WITHIN 6" OF A SINK SHALL BE PROVIDED WITH GFCI PROTECTION.
6. PUBLIC AREA RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE DEVICES.
7. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ALL MECHANICAL EQUIPMENT LOCATIONS, ELECTRICAL REQUIREMENTS AND ADDITIONAL INFORMATION.
8. REFER TO DRAWING E-701 FOR CABLE TRAY AND TELECOMMUNICATIONS RACEWAY DETAIL AND ADDITIONAL INFORMATION.



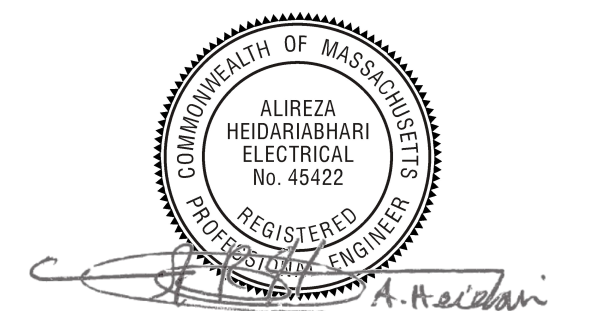
1 ELECTRICAL POWER LEVEL 3
3/16" = 1'-0"



Notes

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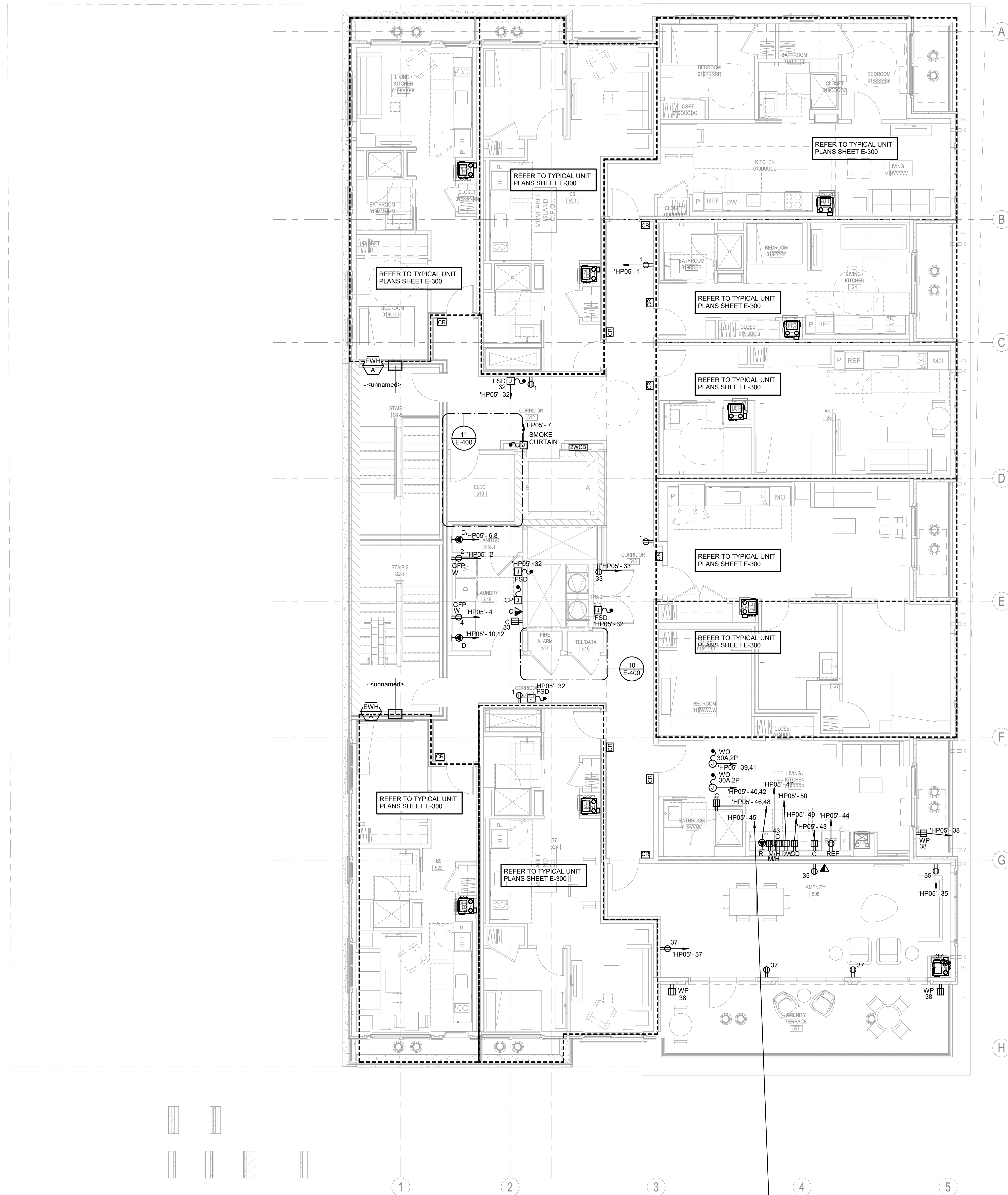
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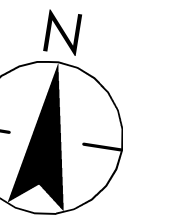
ELECTRICAL POWER
SYSTEMS FLOOR PLAN
- LEVEL 3

E-203

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1 ELECTRICAL POWER LEVEL 5
3/16" = 1'-0"



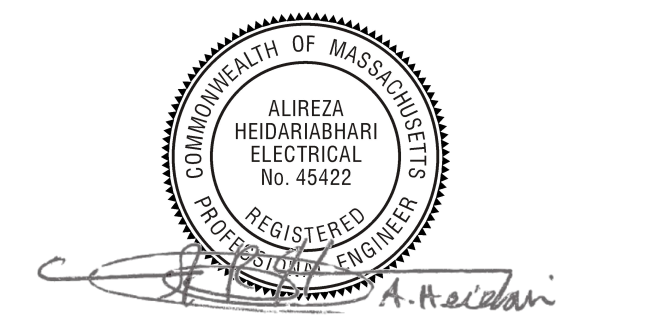


Notes

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1	ISSUED FOR CONSTRUCTION	09/09/2022
	Issued/Revision	YYYY.MM.DD

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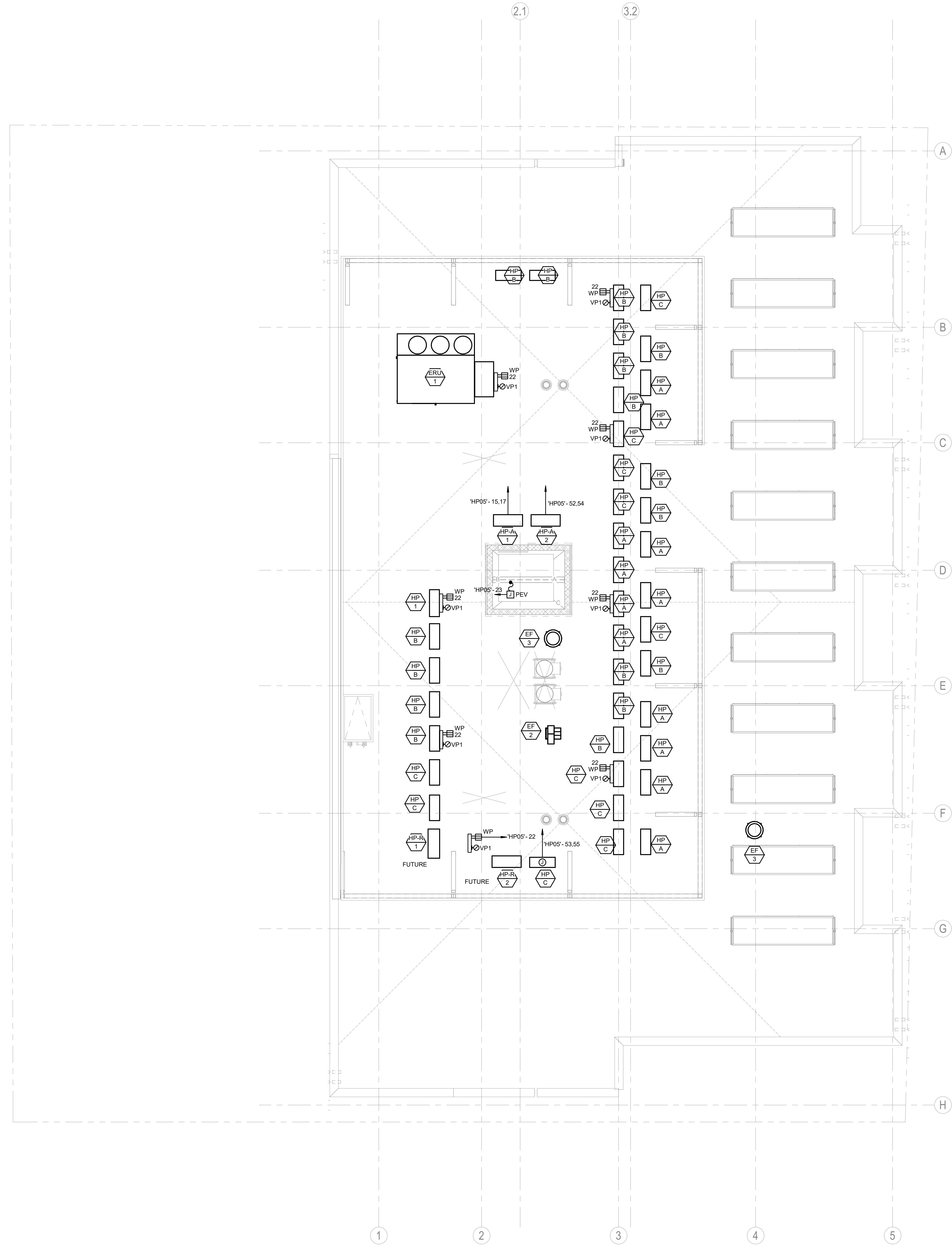
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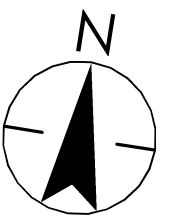
ELECTRICAL POWER
SYSTEM ROOF PLAN

E-206

POWER PLAN NOTES

1. CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT OF ALL DEVICES WITH ARCHITECTS DRAWINGS PRIOR TO ROUGH IN.
2. CIRCUIT NUMBERS ARE FOR DESCRIPTIVE PURPOSES ONLY. EXACT NUMBERS SHALL BE DETERMINED IN FIELD AND SHALL BE THE SAME AS THE CONTRACTORS' RULLED DRAWINGS.
3. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED AND INSTALLED FOR A MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3% FROM PANELBOARD. TOTAL VOLTAGE DROP FROM SERVICE ENTRY TO LAST DEVICE ON CIRCUIT SHALL NOT EXCEED 5%. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND OPTIONS.
4. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH HVAC, PLUMBING, AND FIRE PROTECTION DRAWINGS.
5. ALL RECEPTACES WITHIN 6' OF A SINK SHALL BE PROVIDED WITH GFCI PROTECTION.
6. PUBLIC AREA RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE DEVICES.
7. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ALL MECHANICAL EQUIPMENT LOCATIONS, ELECTRICAL REQUIREMENTS AND ADDITIONAL INFORMATION.
8. REFER TO DRAWING E-701 FOR CABLE TRAY AND TELECOMMUNICATIONS RACEWAY DETAIL AND ADDITIONAL INFORMATION.





Notes

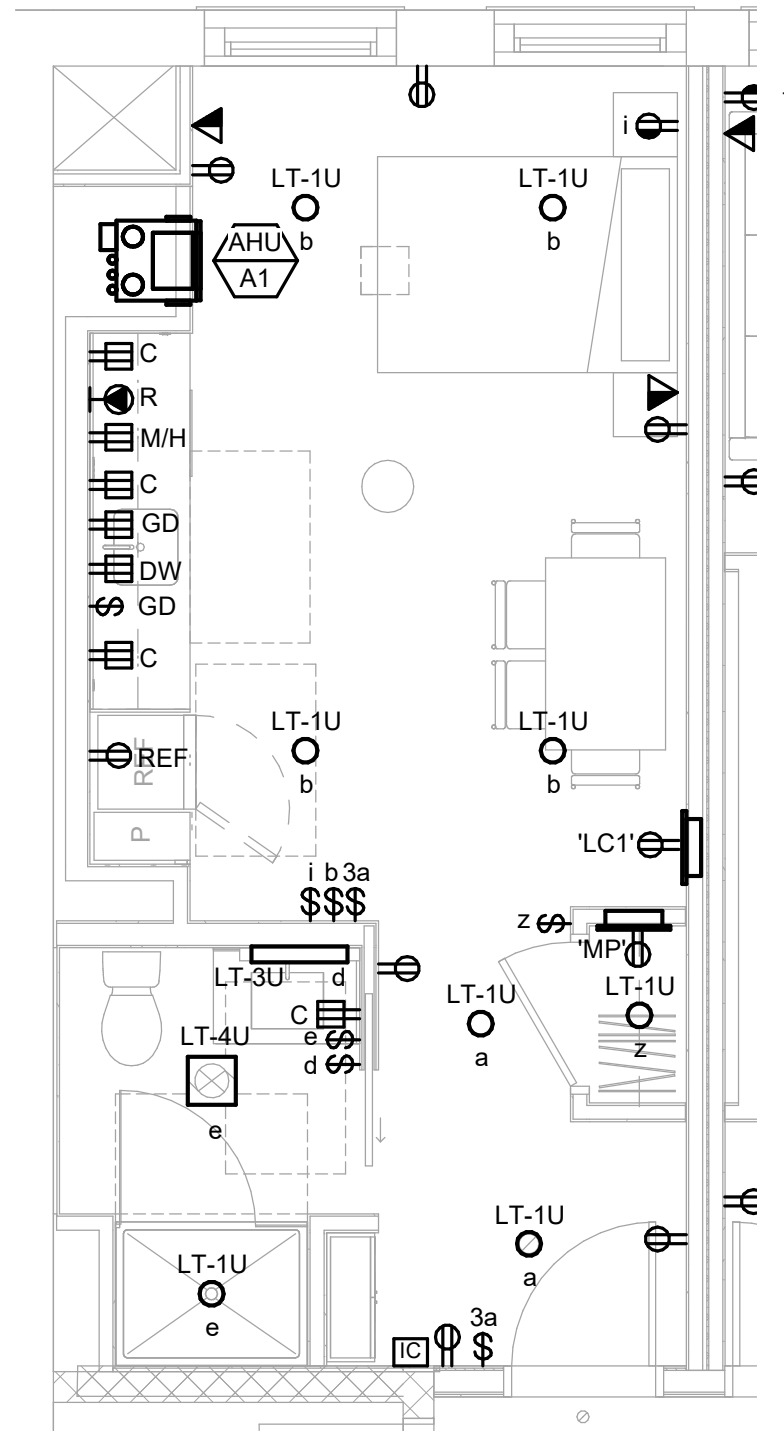
E

D

C

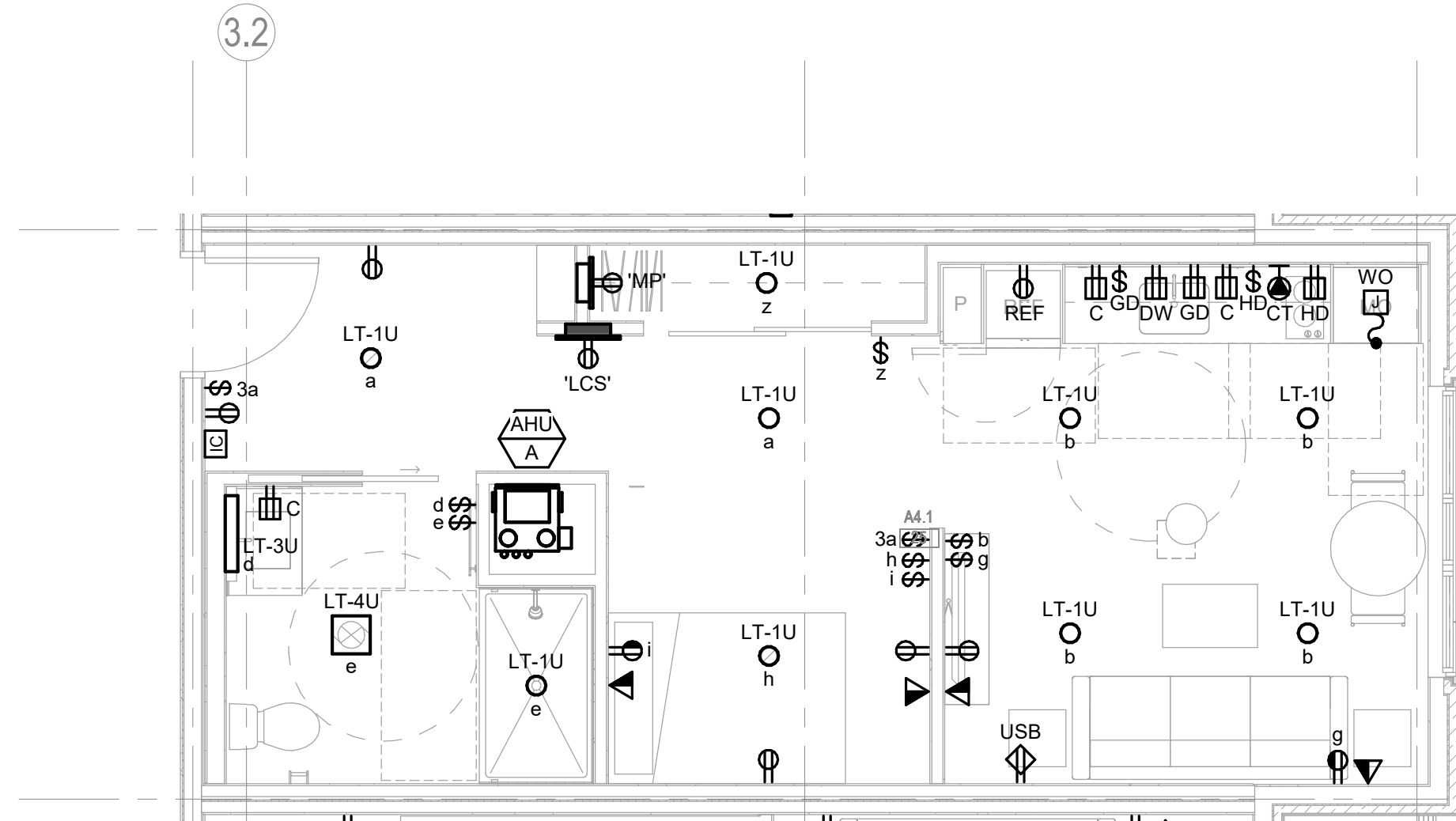
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A

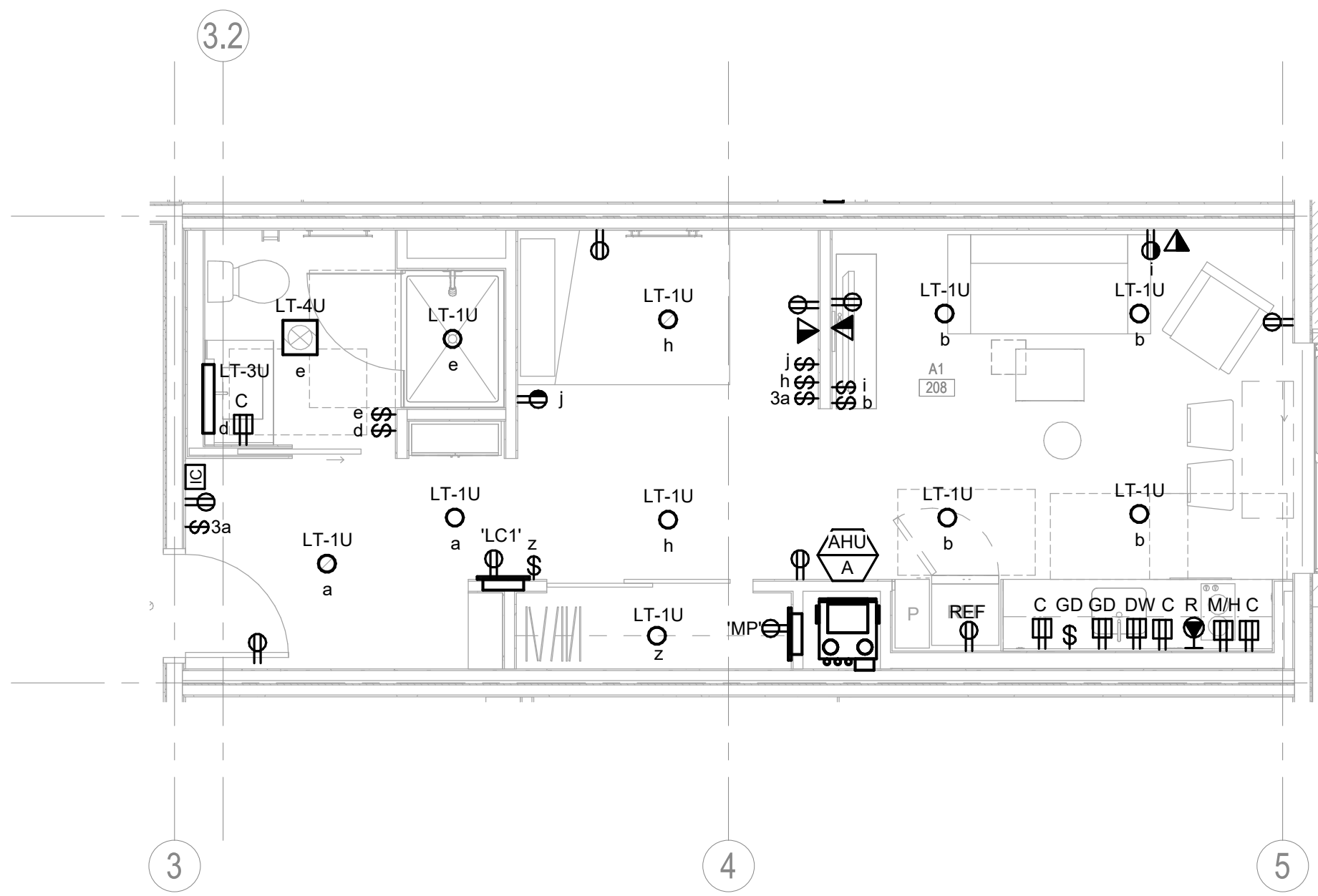


5 UNIT PLAN - A5
1/4" = 1'-0"

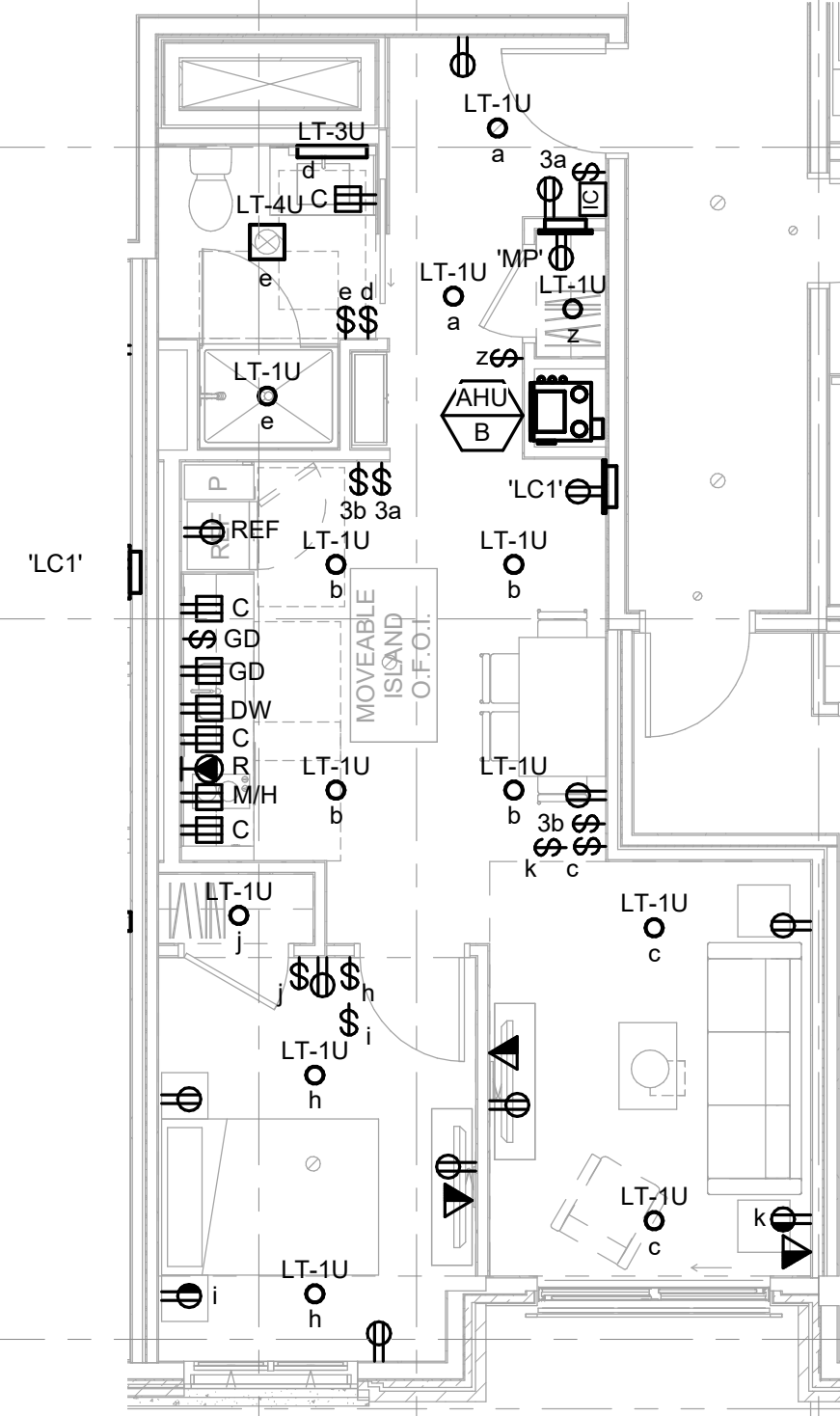
9 UNIT PLAN - B2
3/16" = 1'-0"



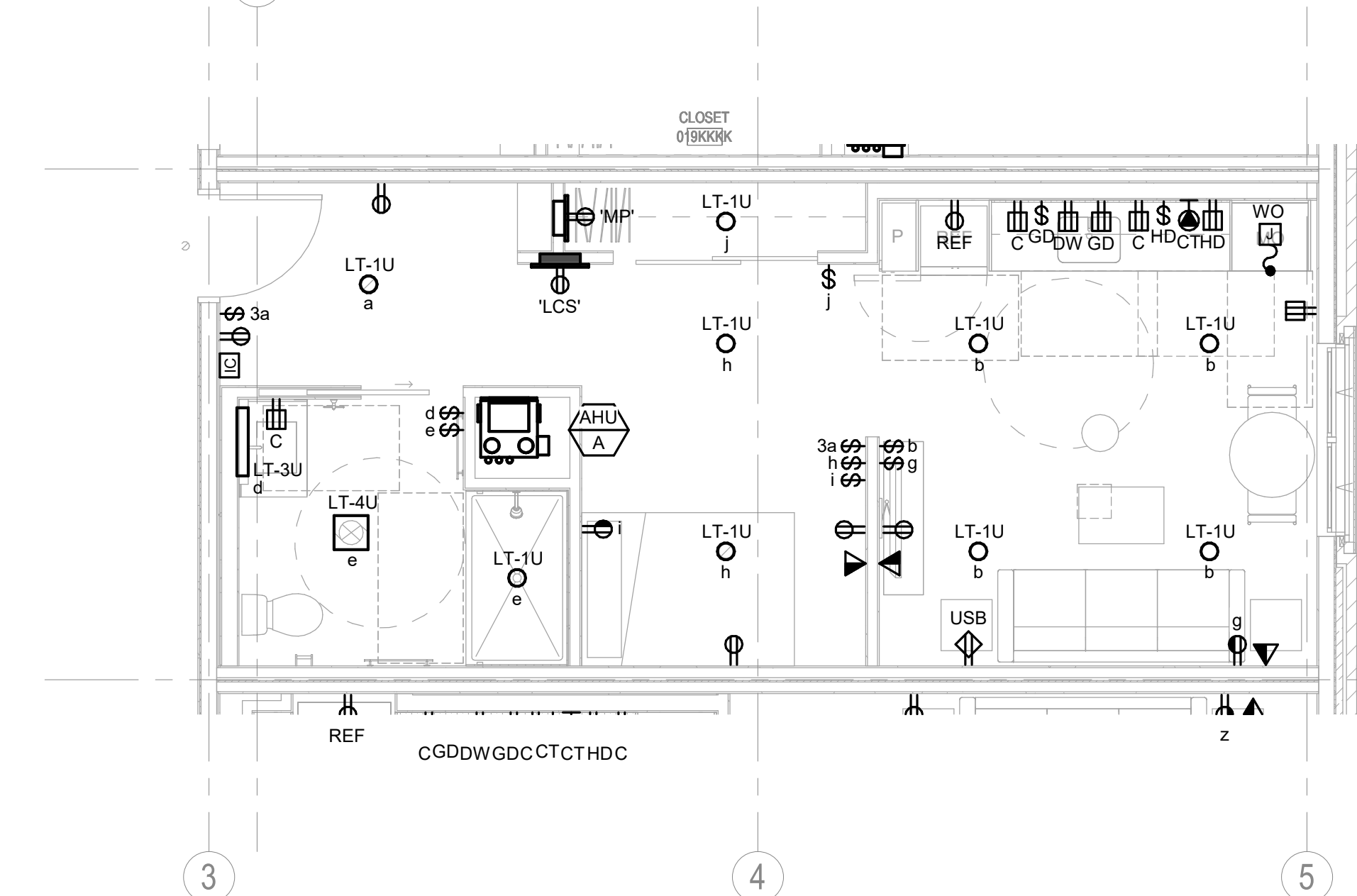
4 UNIT PLAN - A4.1
1/4" = 1'-0"



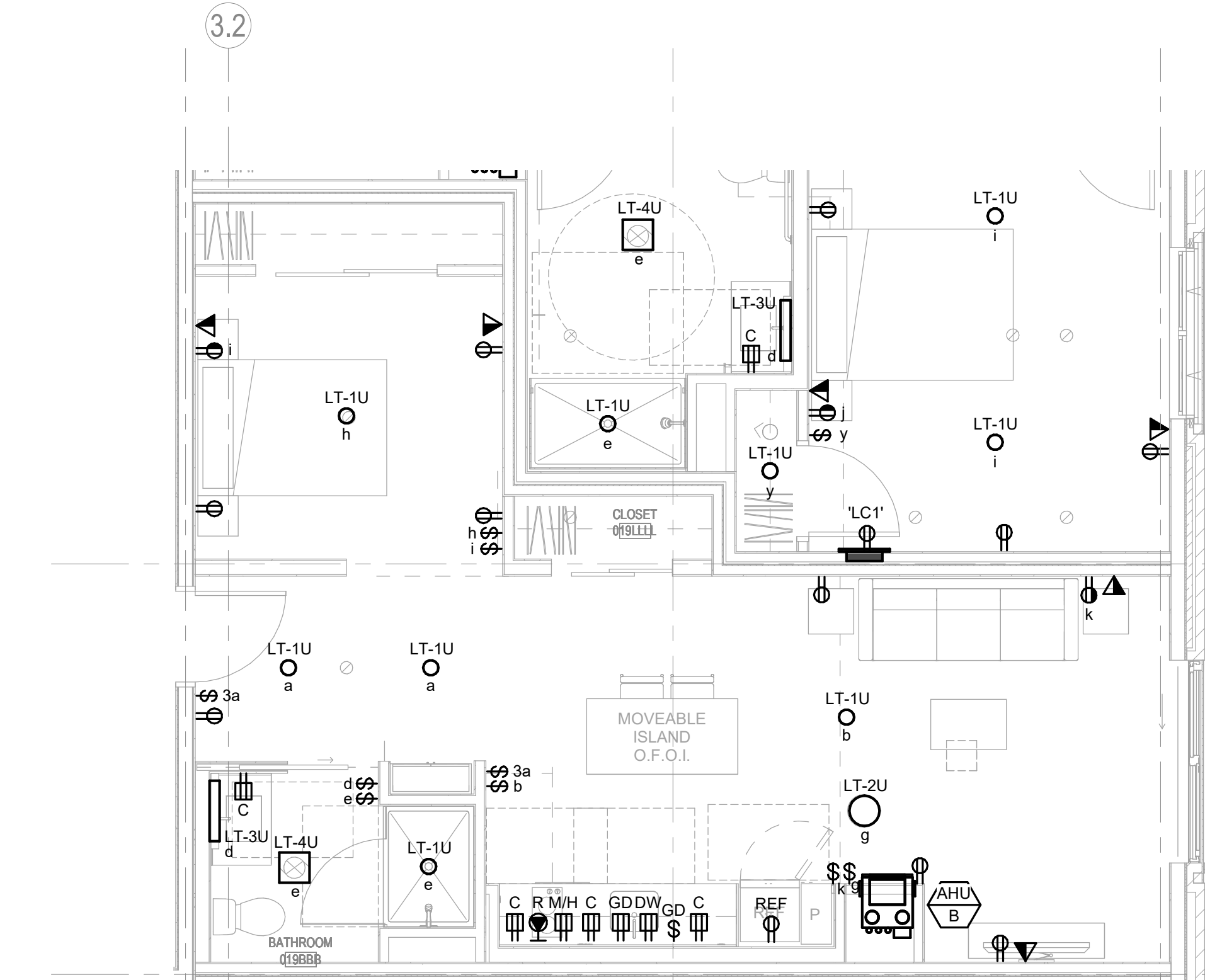
UNIT PLAN - A1
1/4" = 1'-0"



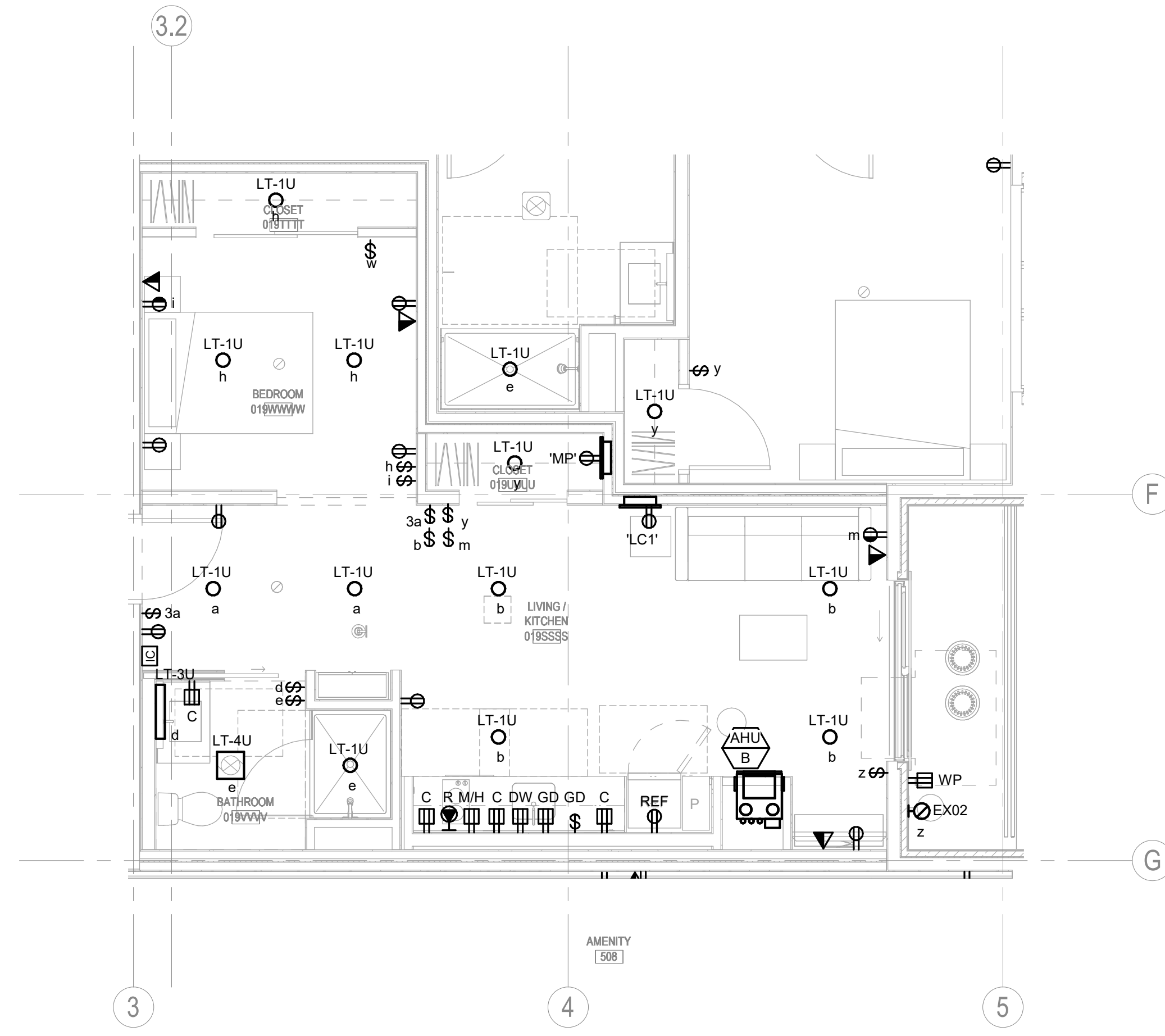
7 UNIT PLAN - A8
1/4" = 1'-0"



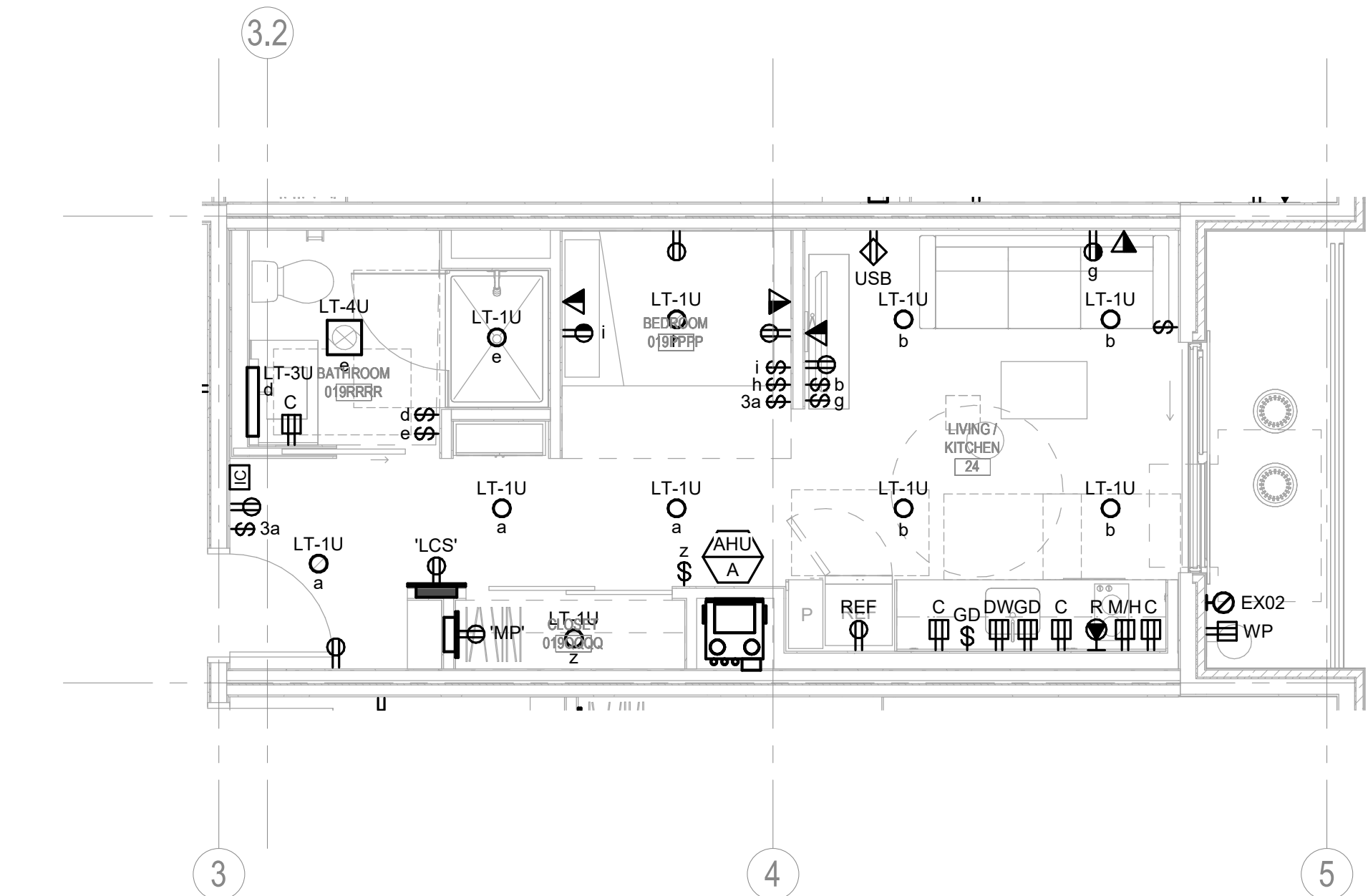
6 UNIT PLAN - A4 (G2A)
1/4" = 1'-0"



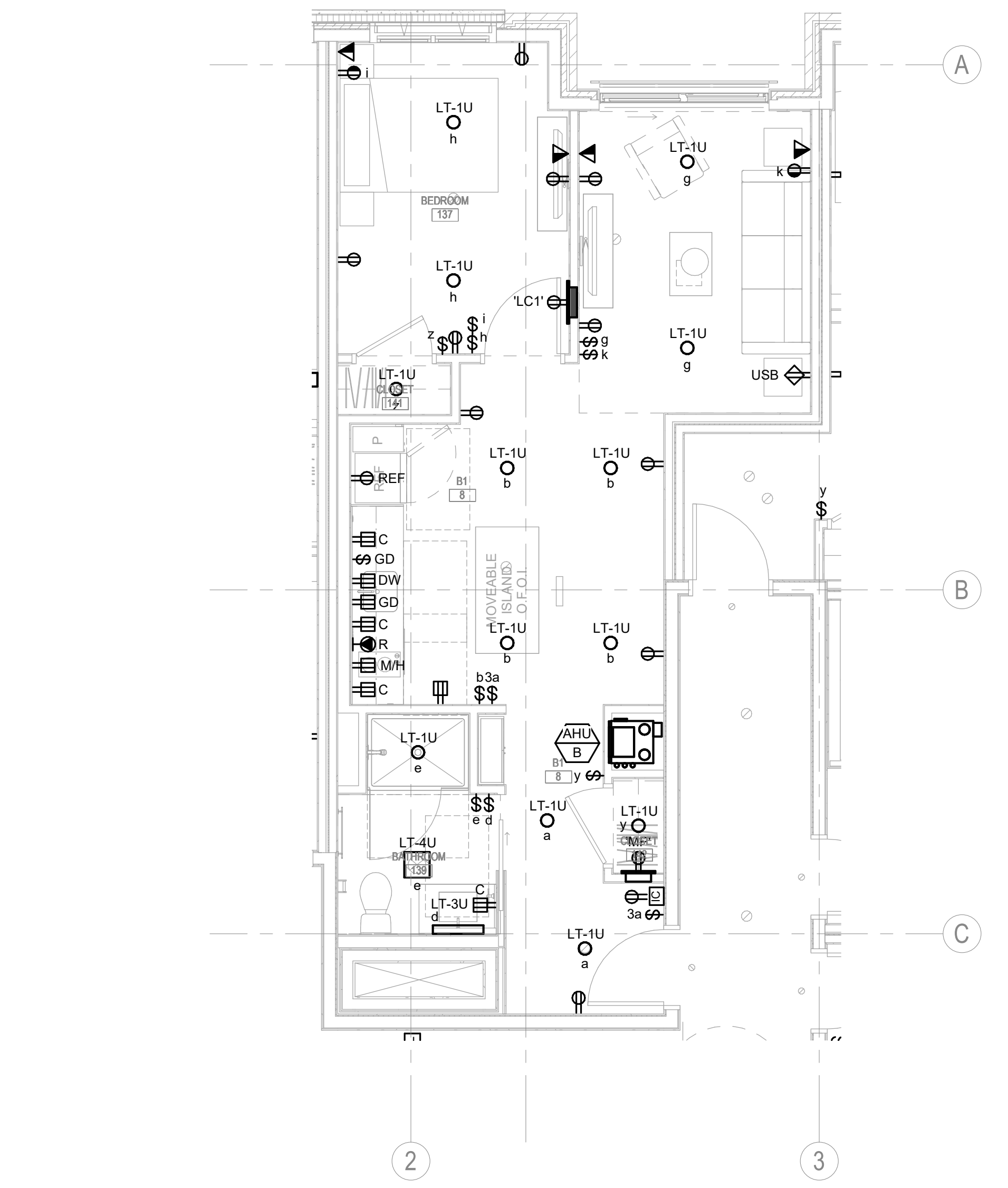
2 UNIT PLAN - A2
1/4" = 1'-0"



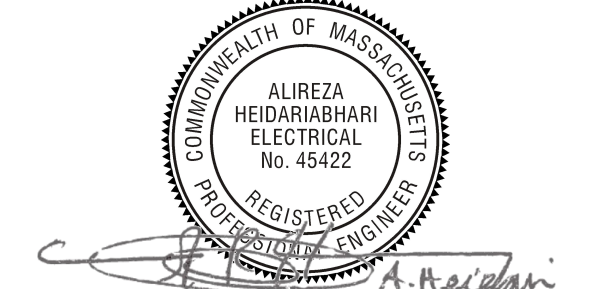
3 UNIT PLAN - A3
1/4" = 1'-0"



8 UNIT PLAN - B1
1/4" = 1'-0"

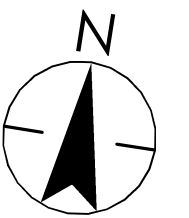


1	ISSUED FOR CONSTRUCTION	09/09/2022
2	Issued/Revision	YYYYMMDD
3	Permit/Seal	



Scale As indicated
Project No. 218421128

ELECTRICAL TYPICAL
UNIT PLANS



Notes

1 UNIT PLAN - B3
1/4" = 1'-0"

2 UNIT PLAN - B4
3/16" = 1'-0"

3 UNIT PLAN - B5 (G2A)
1/4" = 1'-0"

4 UNIT PLAN - B6
1/4" = 1'-0"

5 UNIT PLAN - B7
1/4" = 1'-0"

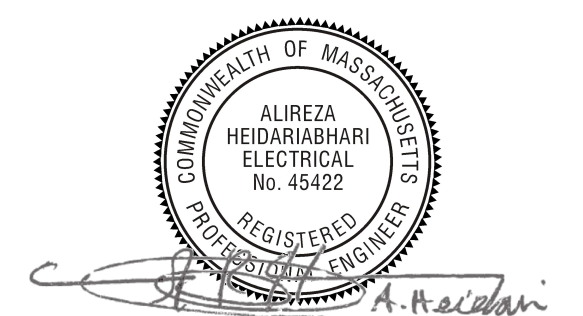
6 UNIT PLAN - B8
1/4" = 1'-0"

7 UNIT PLAN - B9
1/4" = 1'-0"

8 UNIT PLAN - B10 (G2A)
1/4" = 1'-0"

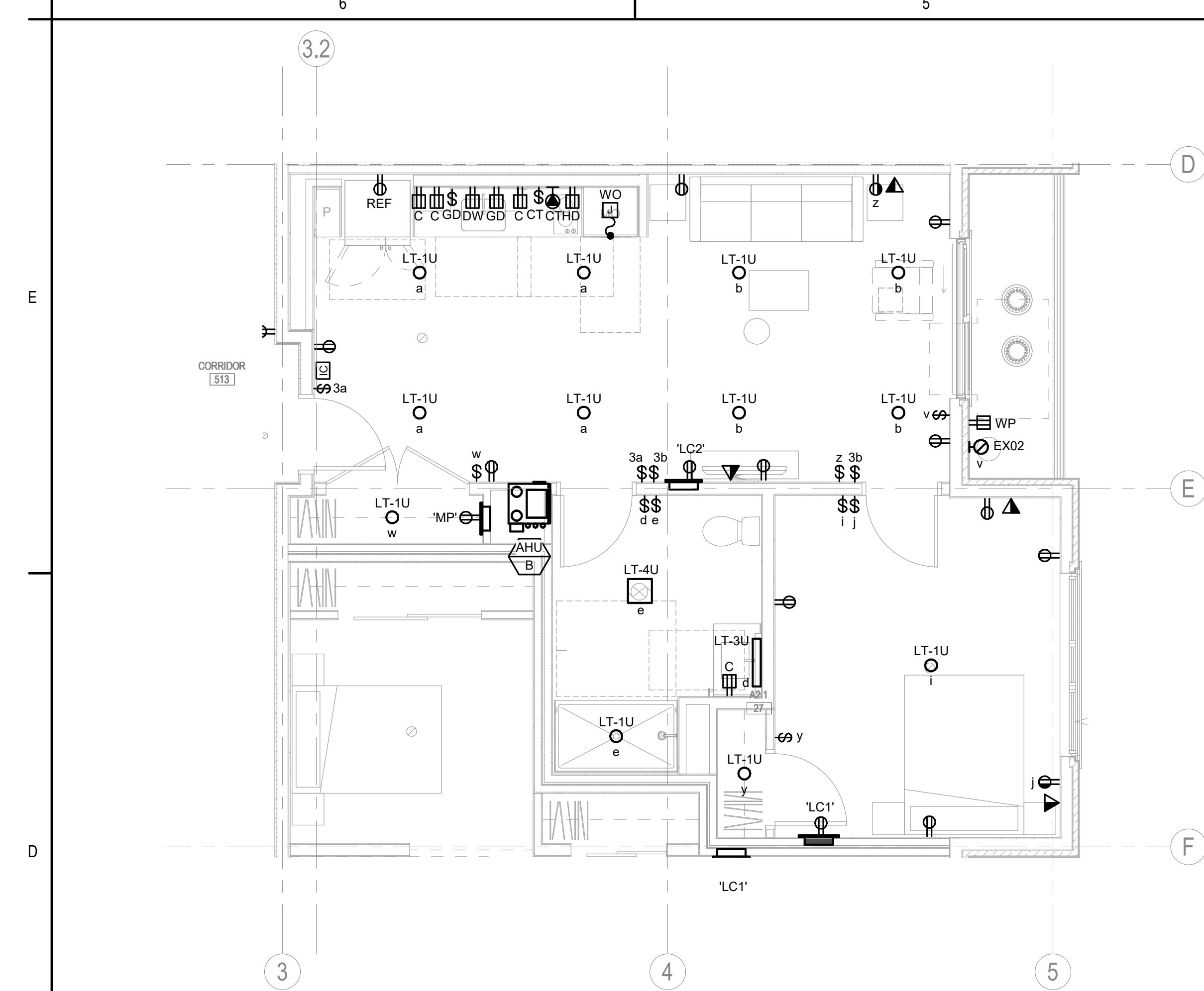
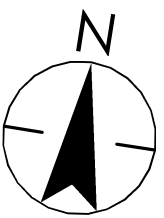
1 ISSUED FOR CONSTRUCTION 09/09/2022
Issued/Revision YYYYYY.AM.DD

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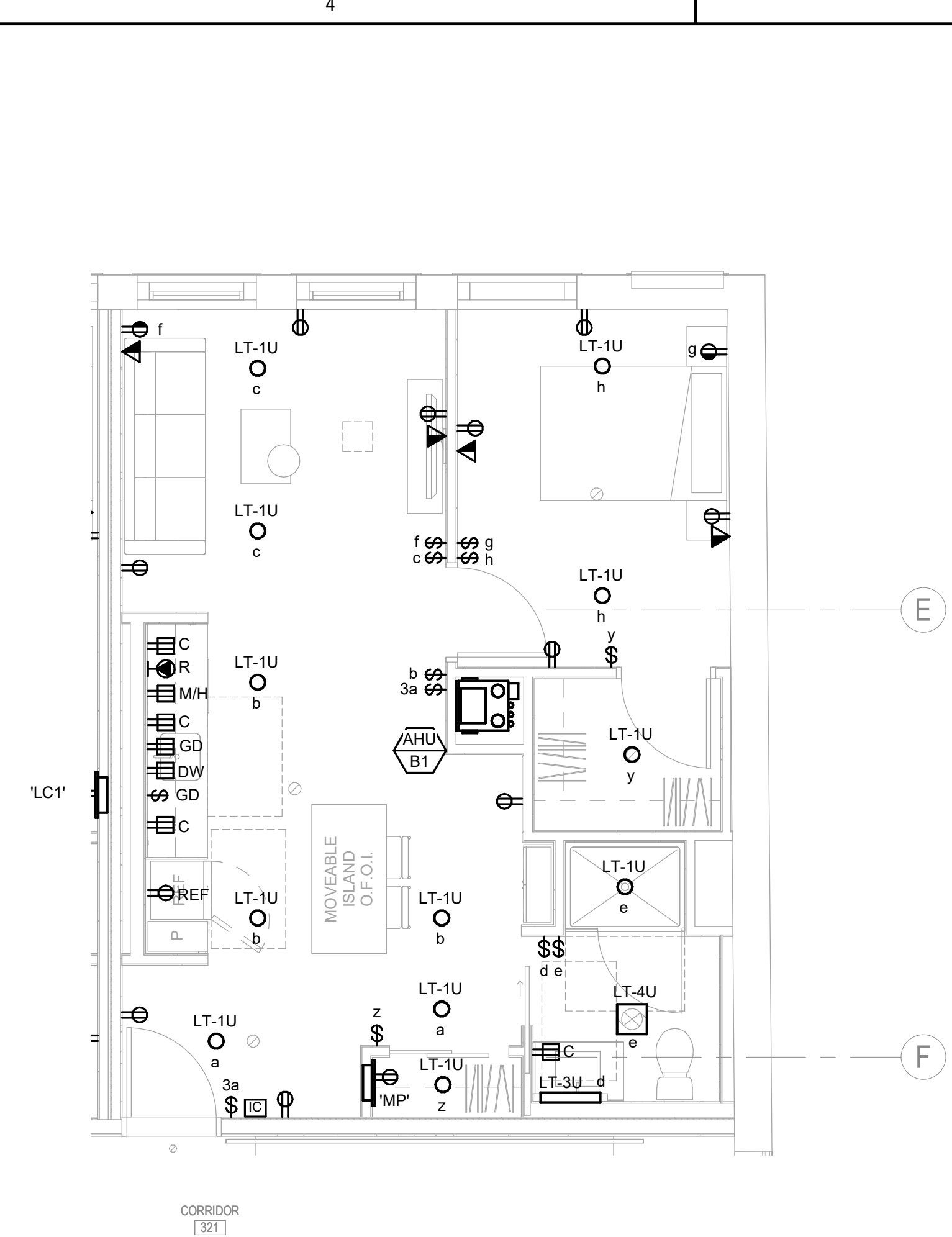


Scale As indicated
Project No. 218421128

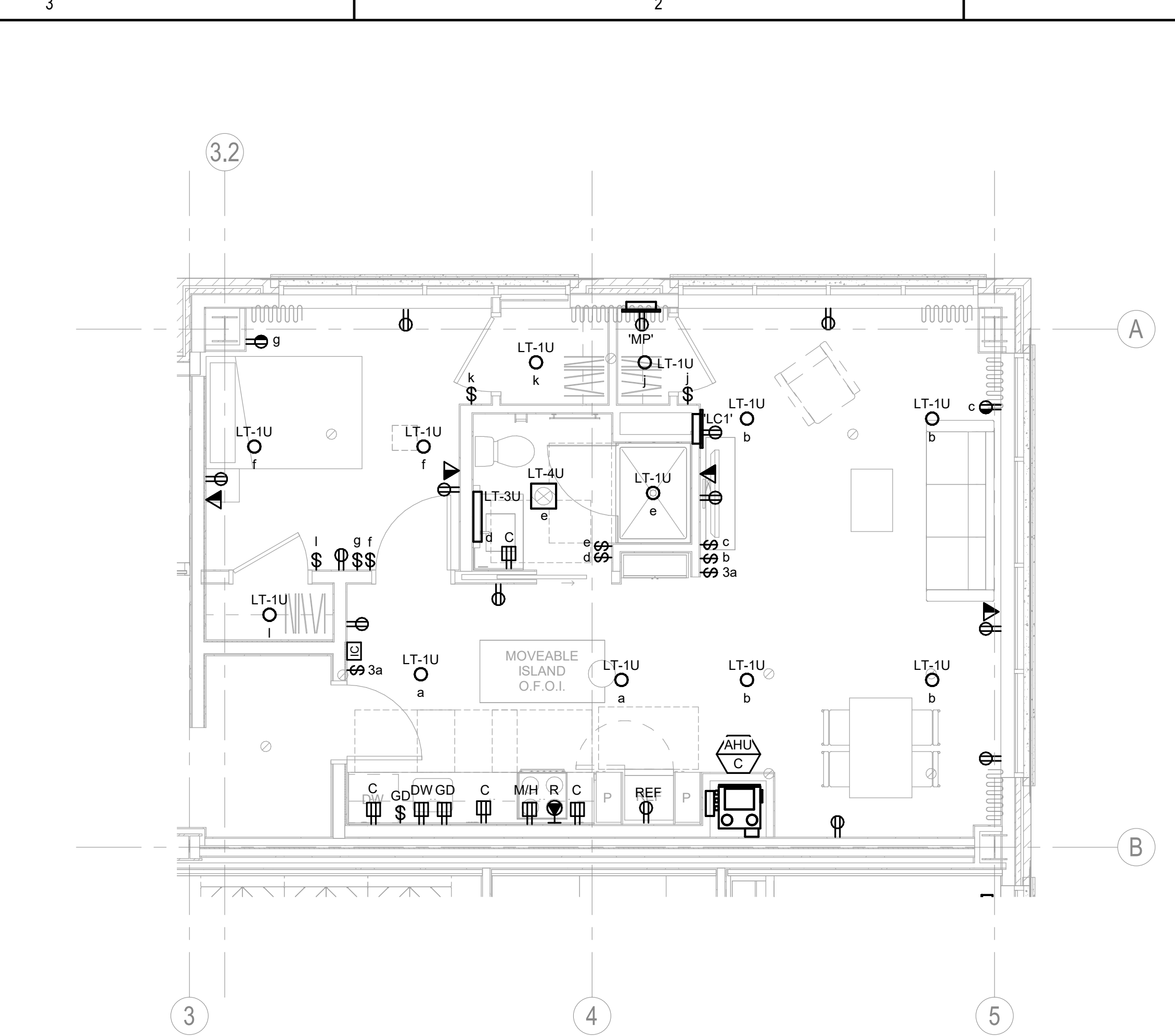
**ELECTRICAL TYPICAL
UNIT PLANS**



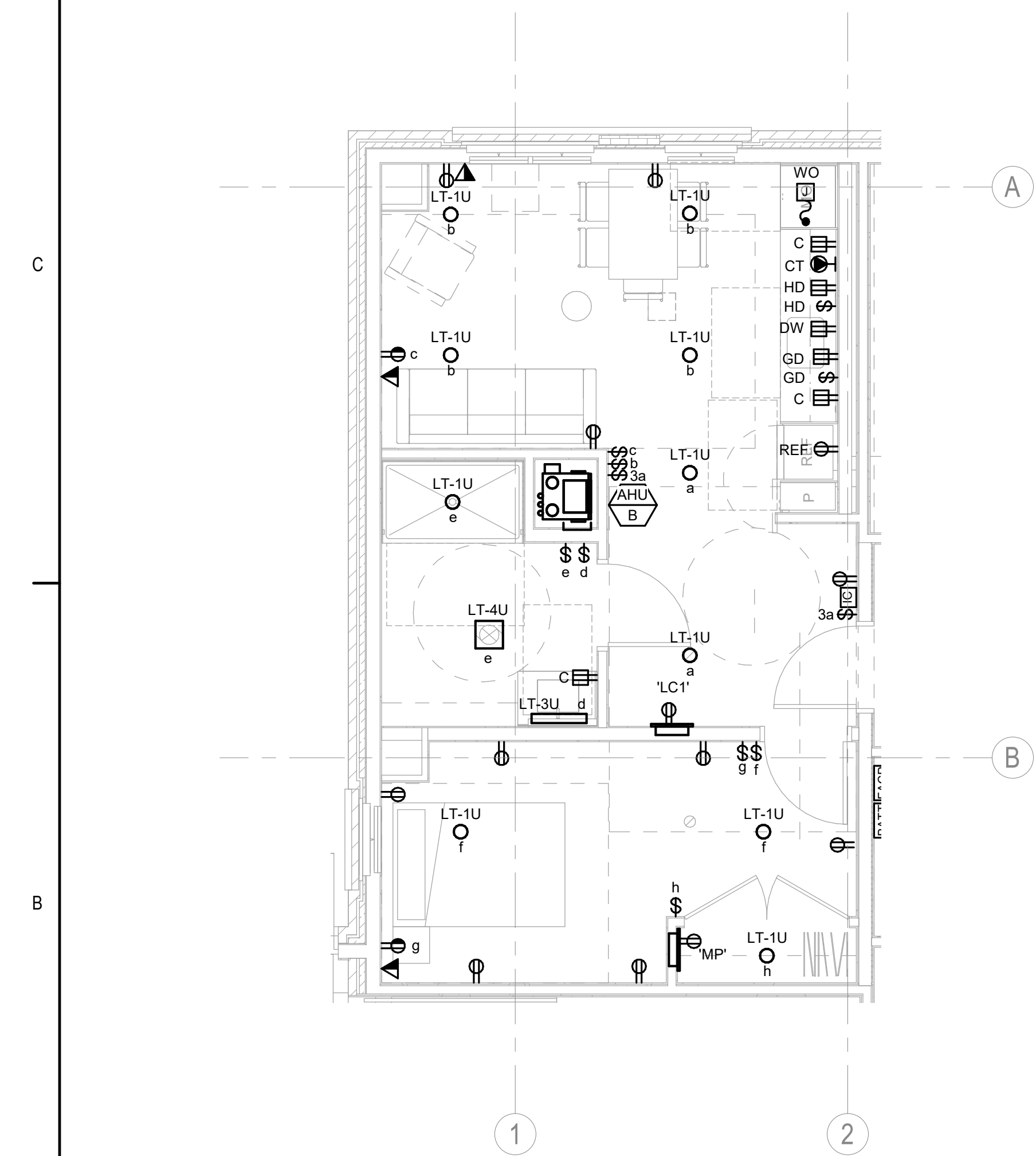
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1/4" = 1'-0"



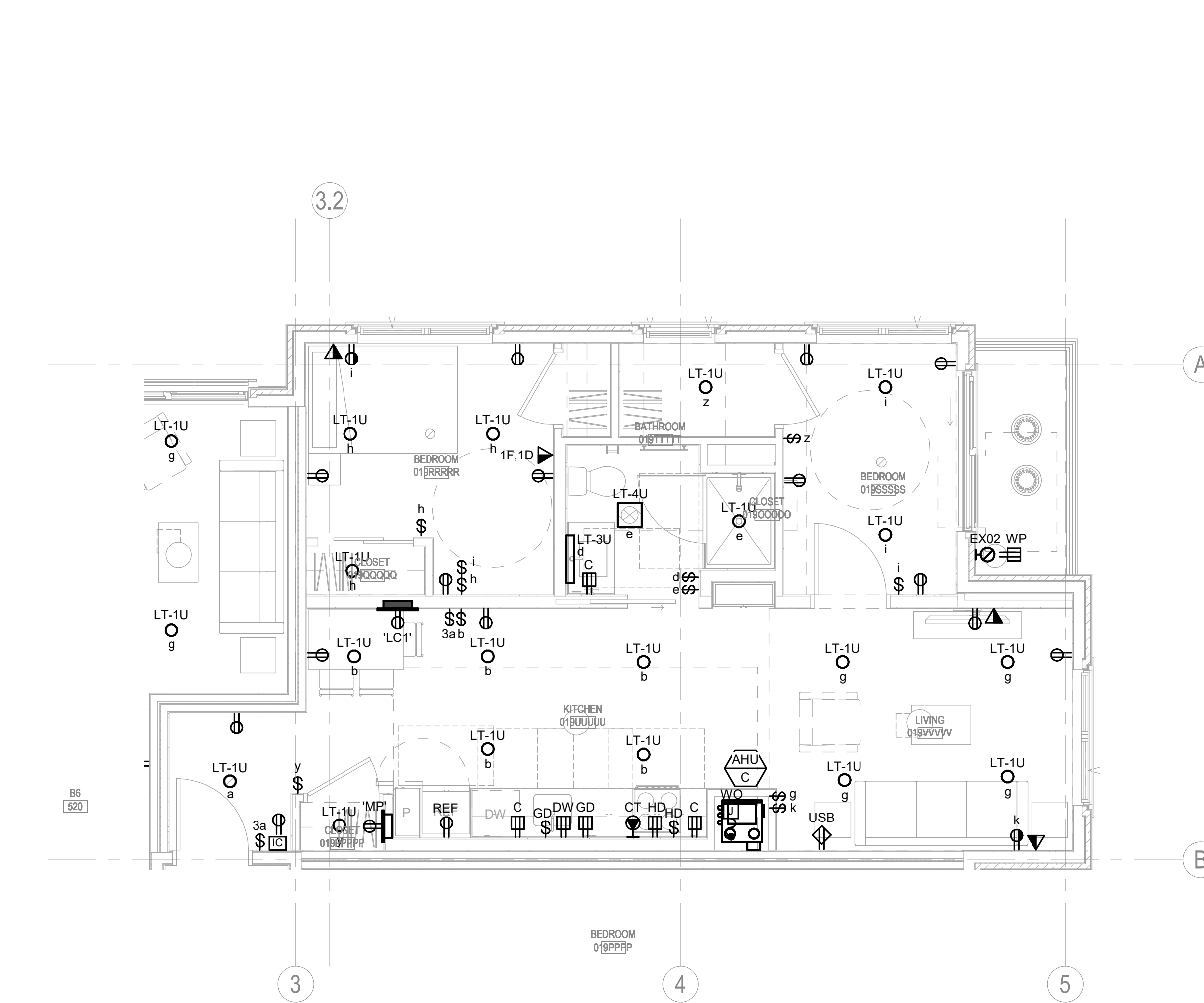
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1/4" = 1'-0"



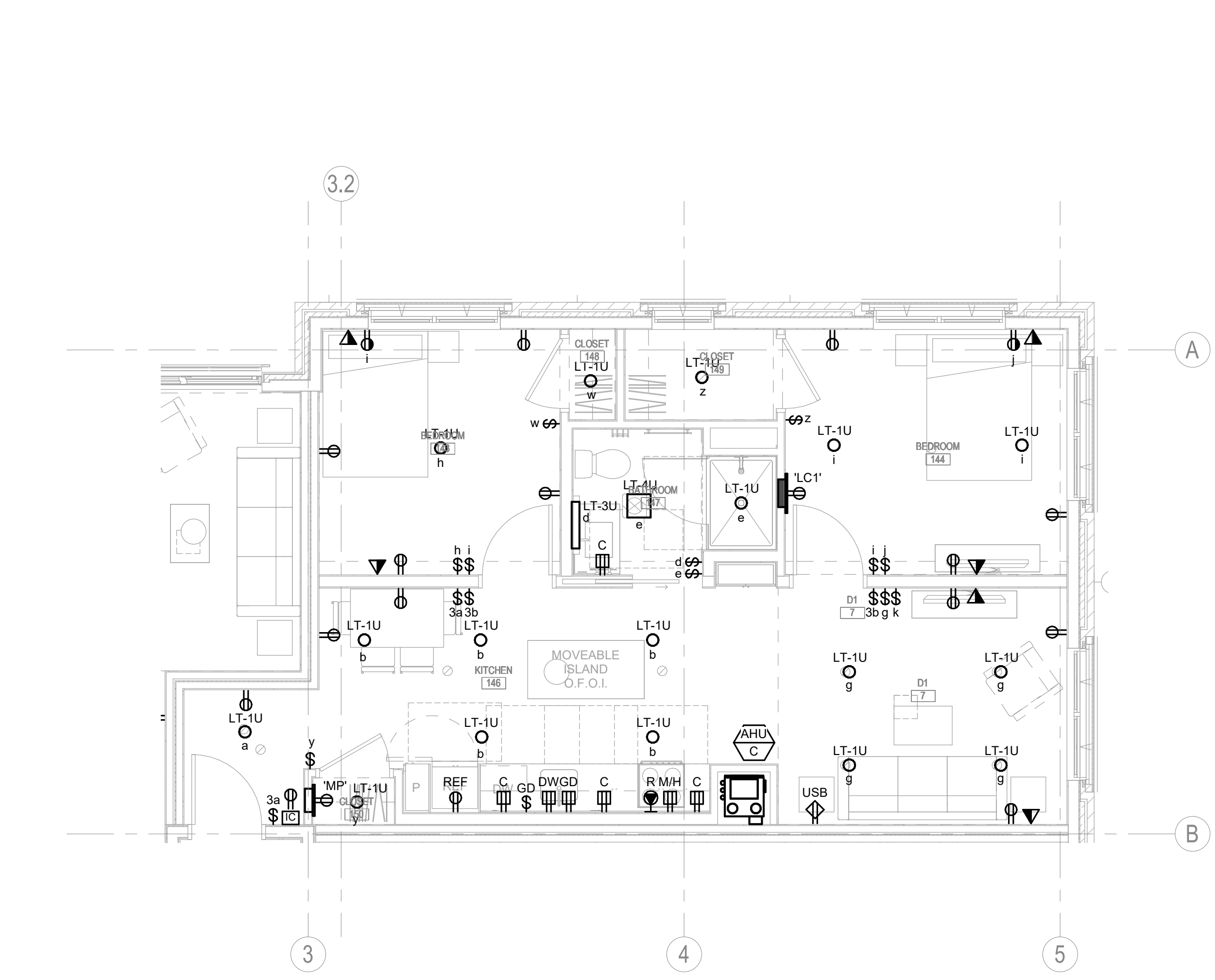
3 UNIT PLAN - B13
1/4" = 1'-0"



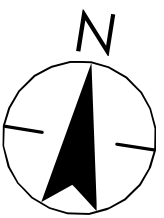
4 UNIT PLAN - B14
1/4" = 1'-0"



5 UNIT PLAN - C1 (G2A)
1/4" = 1'-0"



6 UNIT PLAN - D1
1/4" = 1'-0"



Notes

1 UNIT PLAN - D2
1/4" = 1'-0"

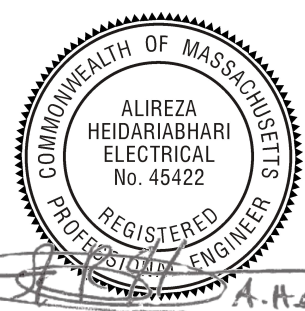
2 UNIT PLAN - D3 (G2A)
1/4" = 1'-0"

3 UNIT PLAN - D4
1/4" = 1'-0"

4 UNIT PLAN - D5
1/4" = 1'-0"

1 ISSUED FOR CONSTRUCTION 09/29/2022
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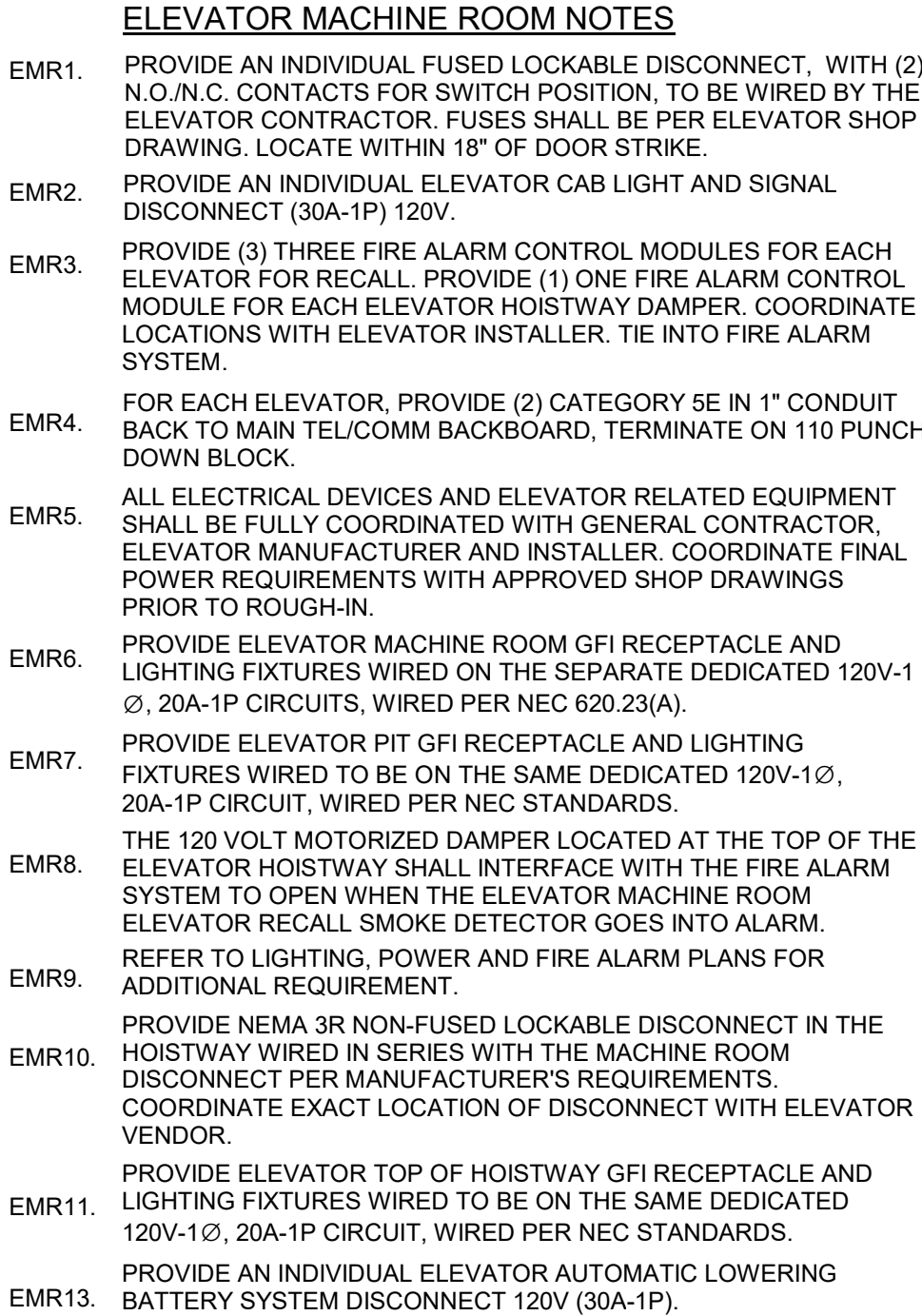
Permit/Seal

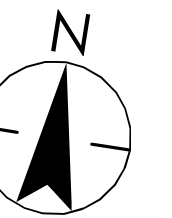


Scale 1/4" = 1'-0"
Project No. 218421128

ELECTRICAL TYPICAL
UNIT PLANS

E-303



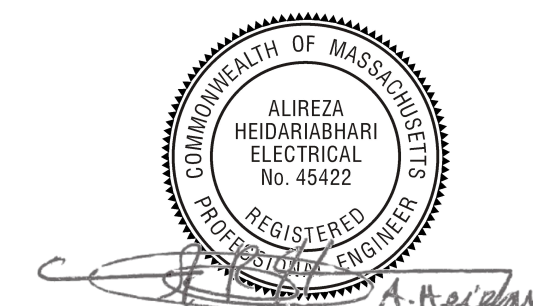


Notes

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1	ISSUED FOR CONSTRUCTION	09/09/2022
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Permit/Seal



Scale	12" = 1'-0"
Project No.	218421128

ELECTRICAL POWER
RISER

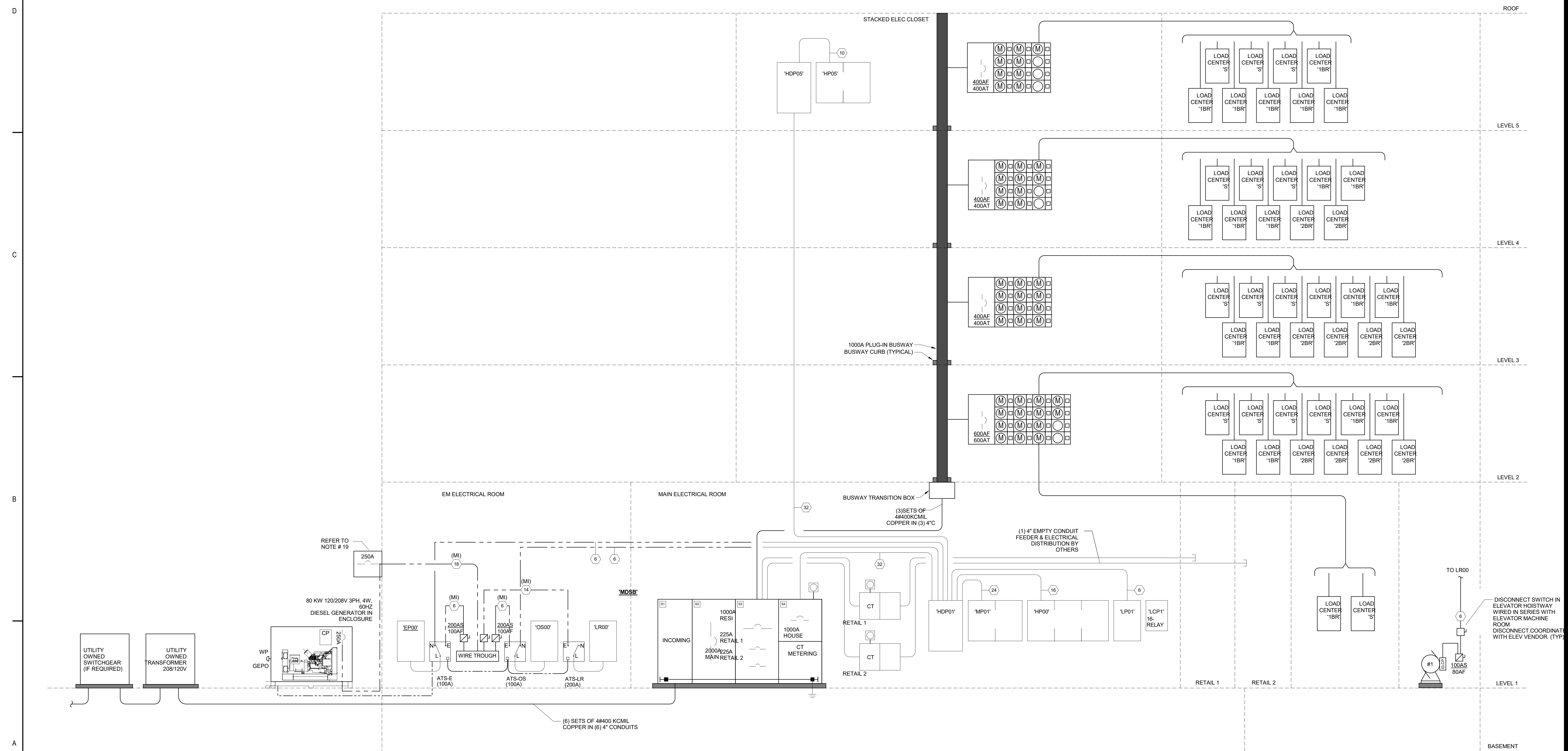
E-500

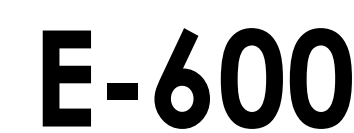
NOTES:

1. REFER TO DRAWING E6.0 FOR SCHEDULES.
 2. CONTRACTOR SHALL CONTACT UTILITY TO OBTAIN NEW SERVICE REQUIREMENTS, PRIMARY SERVICE DESIGN, SERVICE CONNECTION POINT LOCATIONS, REQUIREMENTS AND DESIGN LAYOUT. PROVIDE ALL MATERIALS, CONDUITS, WIRING, PULL BOXES, LABOR (REGULAR/OVERTIME), FEES/CHARGES, RENTAL EQUIPMENT, CONCRETE ENCASUREMENT, ETC AS REQUIRED FOR COMPLETE INSTALLATION TO MEET ALL CODES AND UTILITY'S REQUIREMENTS. MISCELLANEOUS BACK CHARGES SHALL BE PAID DIRECTLY BY THE OWNER.
 3. PROVIDE NEW HOUSEKEEPING PADS, PROTECTION BOLLARDS AND GROUNDING PER NEC AND UTILITY REQUIREMENTS. EXACT LOCATION OF TRANSFER SWITCH SHALL BE COORDINATED WITH THE UTILITY.
 4. PROVIDE UTILITY APPROVED METER SOCKETS AND CT CABINET ENCLOSURES. EXACT LOCATIONS TO BE COORDINATED WITH UTILITY COMPANY.
 5. ALL FLOOR MOUNTED EQUIPMENT SHALL BE PROVIDED WITH 3" (MIN) HIGH CONCRETE SEISMIC HOUSEKEEPING PAD.
 6. REFER TO ELECTRICAL SERVICE GROUNDING DETAIL FOR SERVICE GROUNDING REQUIREMENTS.
 7. CONTRACTOR SHALL INCREASE FEEDER AND CONDUIT SIZES AS REQUIRED TO MAINTAIN LESS THAN 2% VOLTAGE DROP.
 8. UNMETERED SERVICE FEEDERS SHALL BE INSTALLED IN RIGID METAL CONDUIT (RMC).
 9. TENANT LOADCIRCUIT FEEDERS SHALL BE METAL CLAD CABLE (MC) PROVIDE THE FOLLOWING FEEDERS BASED ON DISTANCE FROM THE DISTRIBUTION PANEL:

MAX DIST.	100 - TENANT LOADCIRCUIT FEEDER SCHEDULE
< 100'	3#1/2 (AL), 1#4G (AL) - MC CABLE
101'-130'	3#2 (AL), 1#4G (AL) - MC CABLE
131'-160'	3#3/3 (AL), 1#4G (AL) - MC CABLE
161'-200'	3#4/0 (AL), 1#2G (AL) - MC CABLE
201'-250'	3#2 (AL), 1#2G (AL) - MC CABLE
 10. ALL TENANT MODULAR METERING STACKS SHALL BE MC8 TYPE TRIP RATED AS SHOWN ON RISER DIAGRAM, 120/208 VOLT, 3PH, 4W INCOMING RATED AT 120/208 VOLT, 1PH, 3W OUTGOING WITH A MAXIMUM OF 5 METERS HIGH AND SHALL BE INSTALLED PER ALL APPLICABLE STANDARDS AND MOUNTING HEIGHTS. PROVIDE LABELS TO IDENTIFY EACH TENANT. EACH TENANT CIRCUIT SOCKET SHALL BE PROVIDED WITH 100AMP, 2-POLE MAIN CIRCUIT BREAKER DEVICE TO SERVE EACH TENANT LOADCIRCUIT.
 11. REFER TO ELECTRICAL UNIT PLANS FOR LOADCIRCUIT SCHEDULES. TENANT LOADCIRCUIT SHALL BE MAIN LUG ONLY (MLO), 120/208V, 1PH, 3W, RECESSED MOUNTED SO THAT THE DISTANCE FROM THE HIGHEST CIRCUIT BREAKER OPERATING HANDLE TO THE FLOOR SHALL NOT EXCEED 4'-0" AS REQUIRED FOR ACCESSIBILITY ACCESS.
 12. THE ELECTRICAL CONTRACTOR SHALL UPGRADE THE LOADCIRCUIT SIZES TO A SUITED CIRCUIT BREAKER AS REQUIRED TO ACCOMMODATE LARGER FEEDER SIZES FOR VOLTAGE DROP THAT EXCEED THE STANDARD MLO LUG SIZE.
 13. THE ELECTRICAL CONTRACTOR PROVIDE PERMANENT IDENTIFICATION FOR EACH OF THE MAIN SERVICE DISCONNECT SWITCHES PER NEC 230.2(E) AND THE AUTHORITY HAVING JURISDICTION.
 14. THE ELECTRICAL CONTRACTOR SHALL SUPPLY 100 AMP, 2-POLE CIRCUIT BREAKER REDUCING ADAPTORS (SUCH AS MAC ADAPTORS) AS REQUIRED TO TERMINATE CONDUCTORS TO LUGS FOR CIRCUIT BREAKERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.
 15. PROVIDE SLEEVES AND FIRE STOPPING FOR ALL CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS.
 16. PROVIDE PULL BOXES AS REQUIRED. PULL BOXES FOR UNMETERED SERVICE FEEDERS SHALL BE WITH HINGED COVER WITH UTILITY APPROVED LOCK.
 17. PROVIDE A SHORT CIRCUIT, COORDINATION STUDY AND ARC FLASH HAZARD ANALYSIS STUDY. EQUIPMENT RATINGS ON AVAILABLE FAULT CURRENTS SHALL EXCEED THE STUDY.
 18. PROVIDE DISCONNECT SWITCH IN ELEVATOR HOISTWAY WIRED IN SERIES WITH ELEVATOR MACHINE ROOM DISCONNECT. COORDINATE WITH ELEVATOR VENDOR (TYP).
 19. PROVIDE 2" AND 1/2" WIRING FROM GENERATOR TO AUTOMATIC TRANSFER SWITCHES (ATS) FOR START/STOP CIRCUITS. PROVIDE 1" AND 1/2" WIRING TO ELEVATOR CONTROL PANEL FOR ATS STATUS CIRCUIT. ALL WIRING SHALL BE PER GENERATOR MANUFACTURER'S RECOMMENDATIONS.
 20. PROVIDE TEMPORARY GENERATOR CONNECTION BOX PER NEC 700.3. PROVIDE ELEC. POWER SYSTEMS, TEMP TAP WITH 200A CIRCUIT BREAKER FOR LIFE SAFETY. PROVIDE OUTDOOR TYPE BREAKER WHERE TEMP TAP BOX DOESN'T HAVE AN OPTION FOR CIRCUIT BREAKERS. IN ADDITION, PROVIDE UNISTRUT SUPPORT SYSTEM.

MAX. DIST.	100 - TENANT LOADCENTER FEEDER SCHEDULE
< 100'	3#1/0 (AL), 1#4G (AL) - MC CABLE
101'-130'	3#2/0 (AL), 1#4G (AL) - MC CABLE
131'-160'	3#3/0 (AL), 1#4G (AL) - MC CABLE
161'-200'	3#4/0 (AL), 1#2G (AL) - MC CABLE
201'-250'	3#250 (AL), 1#2G (AL) - MC CABLE





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15. LOAD CENTERS SHALL BE FACTORY PAINTED WHITE EXTERIOR FINISH

*MAXIMUM ALLOWED VOLTAGE DROP = 2%
PROVIDE CONDUCTORS TO SATISFY MAXIMUM 2%
VOLTAGE DROP.

30A-1P	2#10 & 1#10G - 3/4"
40A-1P	2#8 & 1#10G - 3/4"
50A-1P	2#6 & 1#10G - 3/4"
60A-1P	2#6 & 1#10G - 3/4"
208 VOLT & 480 VOLT 1 , 2W. CIRCUITS	
20A-2P	2#12 & 1#12G - 3/4"
30A-2P	2#10 & 1#10G - 3/4"
40A-2P	2#8 & 1#10G - 3/4"
50A-2P	2#6 & 1#10G - 3/4"
60A-2P	2#6 & 1#10G - 3/4"
120/208 VOLT & 277/480 VOLT 1 , 3W. CIRCUITS	
("+" INDICATES TO PROVIDE (2) PHASE CONDUCTORS & (1) NEUTRAL CONDUCTOR IN 1 - CIRCUITS)	
20A-2P+	3#12 & 1#12G - 3/4"
30A-2P+	3#10 & 1#10G - 3/4"
40A-2P+	3#8 & 1#10G - 3/4"
50A-2P+	3#6 & 1#10G - 3/4"
60A-2P+	3#6 & 1#10G - 3/4"
208 VOLT & 480 VOLT 3 , 3W. CIRCUITS	
20A-3P	3#12 & 1#12G - 3/4"
30A-3P	3#10 & 1#10G - 3/4"
40A-3P	3#8 & 1#10G - 3/4"
50A-3P	3#6 & 1#10G - 3/4"
60A-3P	3#6 & 1#10G - 3/4"
120/208 VOLT & 277/480 VOLT 3 , 4W. CIRCUITS	
("+" INDICATES TO PROVIDE (3) PHASE CONDUCTORS & (1) NEUTRAL CONDUCTOR IN 3 - CIRCUITS)	
20A-3P+	4#12 & 1#12G - 3/4"
30A-3P+	4#10 & 1#10G - 3/4"
40A-3P+	4#8 & 1#10G - 3/4"
50A-3P+	4#6 & 1#10G - 1"
60A-3P+	4#6 & 1#10G - 1"

[illegible][illegible]

1. 600KCMIL FEEDERS SHALL BE PROVIDED WITH MAC ADAPTERS AS REQUIRED TO COORDINATE WITH BREAKER LUG SIZES.
2. SEE SPECIFICATIONS FOR ACCEPTABLE CONDUCTOR TYPES.

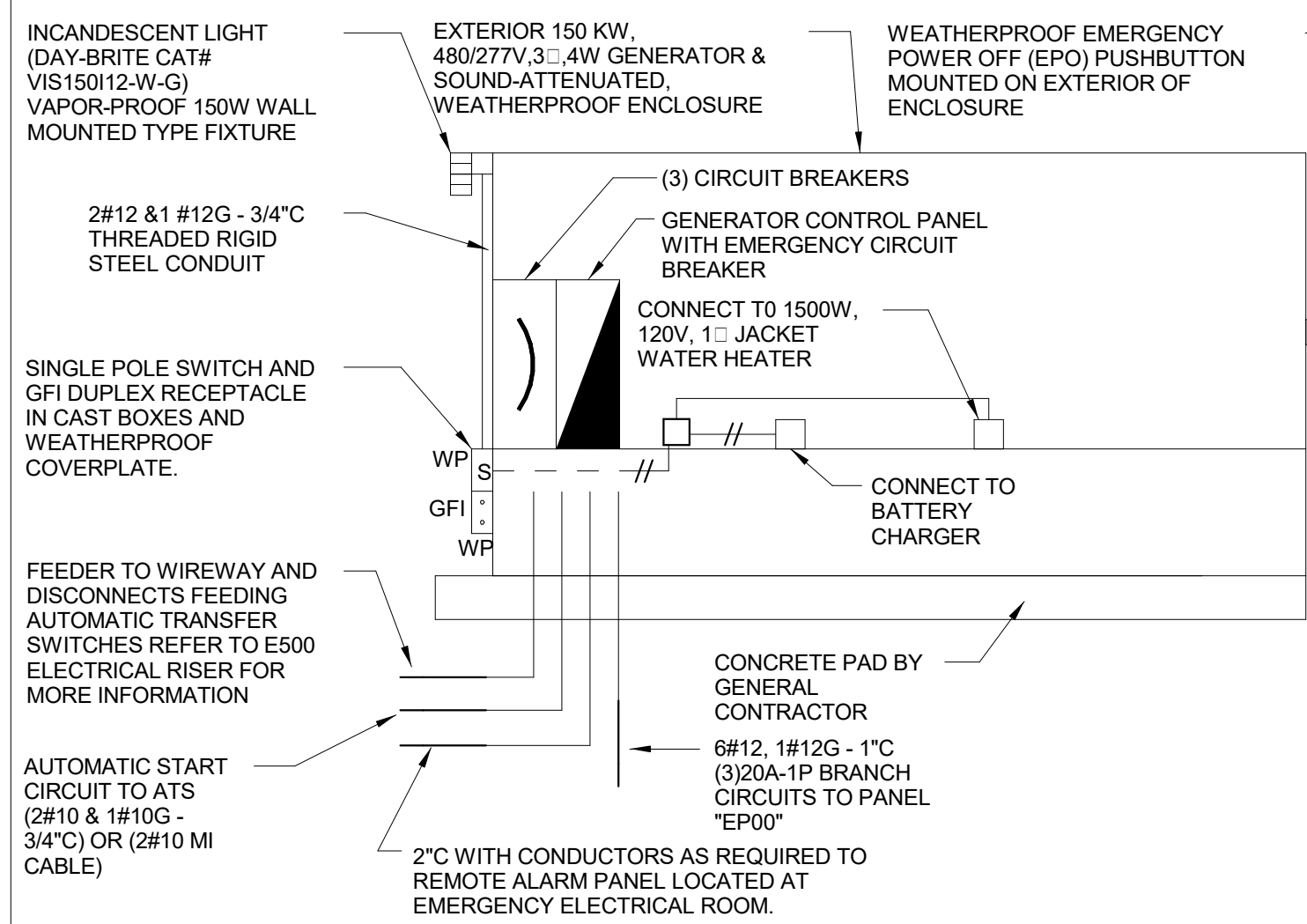
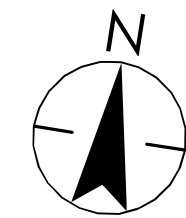
9. PROVIDE POWER FOR HOT WATER HEATER CIRCULATION PUMP AND LINE-VOLTAGE WIRING AND CONNECTIONS TO AQUASTAT SYSTEM. COORDINATE WITH PLUMBING DRAWINGS AND CONTRACTOR.

LF7. NUMBER OF FACES, DIRECTIONAL ARROWS AND MOUNTING AS SHOWN ON THE PLAN.

LF7. NUMBER OF FACES, DIRECTIONAL ARROWS AND MOUNTING AS SHOWN ON THE PLAN.

1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING POWER TO ALL EQUIPMENT ON THIS SHEET.
2. PROVIDE ALL NECESSARY MATERIALS, WIRING AND CONNECTIONS REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
3. ALL LIGHT FIXTURES SELECTED BY ARCHITECT OR LIGHTING CONSULTANT, REFER TO ARCHITECTURAL LUMINARIES SCHEDULE FOR ADDITIONAL INFORMATION.
4. ALL LIGHT FIXTURES SHADED TO INDICATE ON LIFE SAFETY CIRCUIT OR WITH THE SAME FIXTURE NAME AND ENDING DESIGNATION "E" SHALL BE CIRCUITED TO THE EMERGENCY POWER PANEL VIA THE LIGHTING CONTROL PANEL.

Permit/Seal

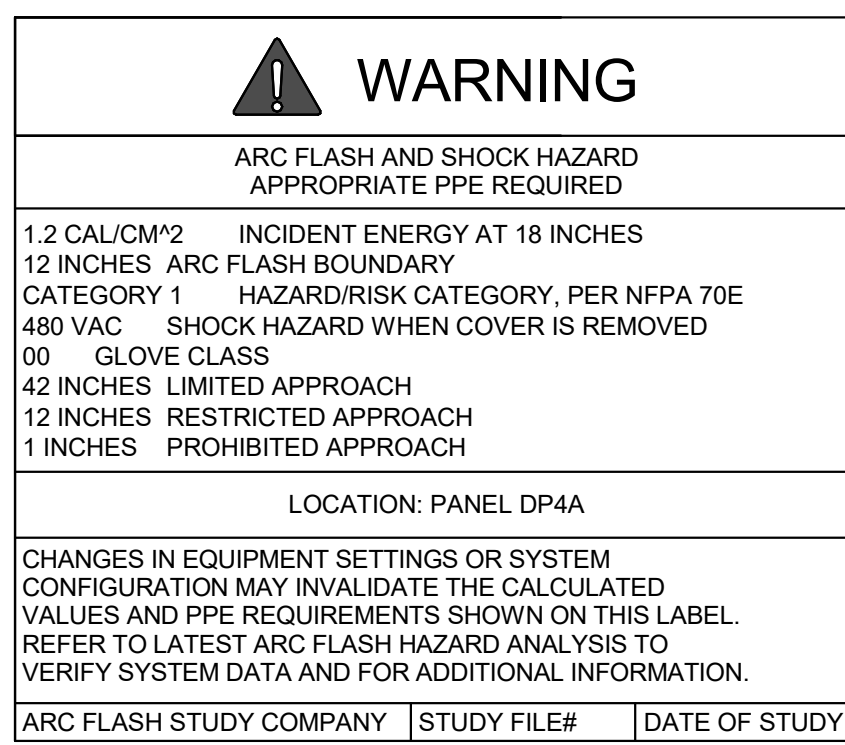


TYPICAL GENERATOR DETAIL

NTS

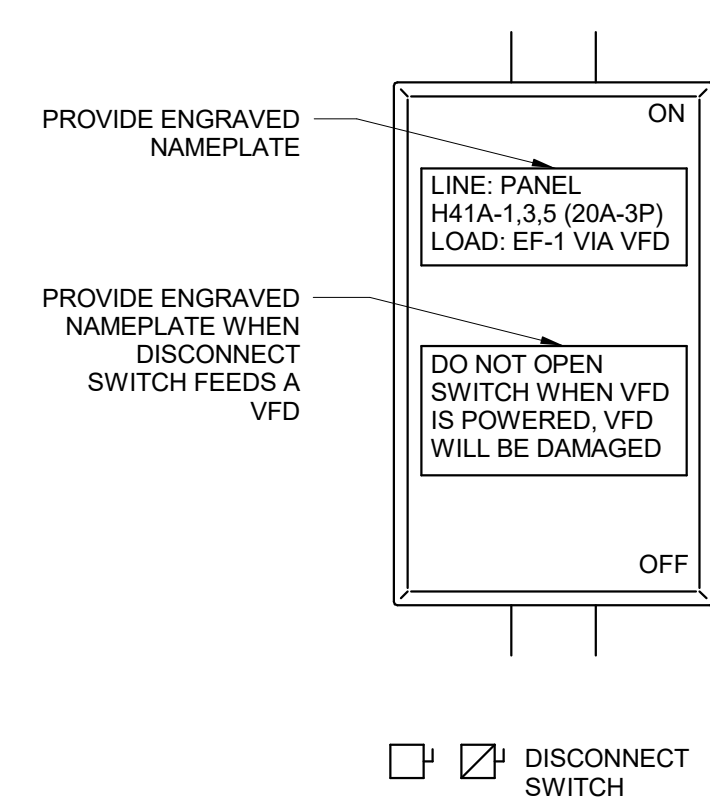
NOTES:

1. SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS IN OTHER THAN DWELLING OCCUPANCIES AND LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. PROVIDE LABEL ON ALL ELECTRICAL EQUIPMENT AS REQUIRED.
2. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
3. THE INFORMATION ON THE LABEL SHOWN IS AN EXAMPLE ONLY. PROVIDE SPECIFIC INFORMATION FOR EACH PIECE OF EQUIPMENT PER ARC FLASH STUDY AS INDICATED IN SPECIFICATIONS.



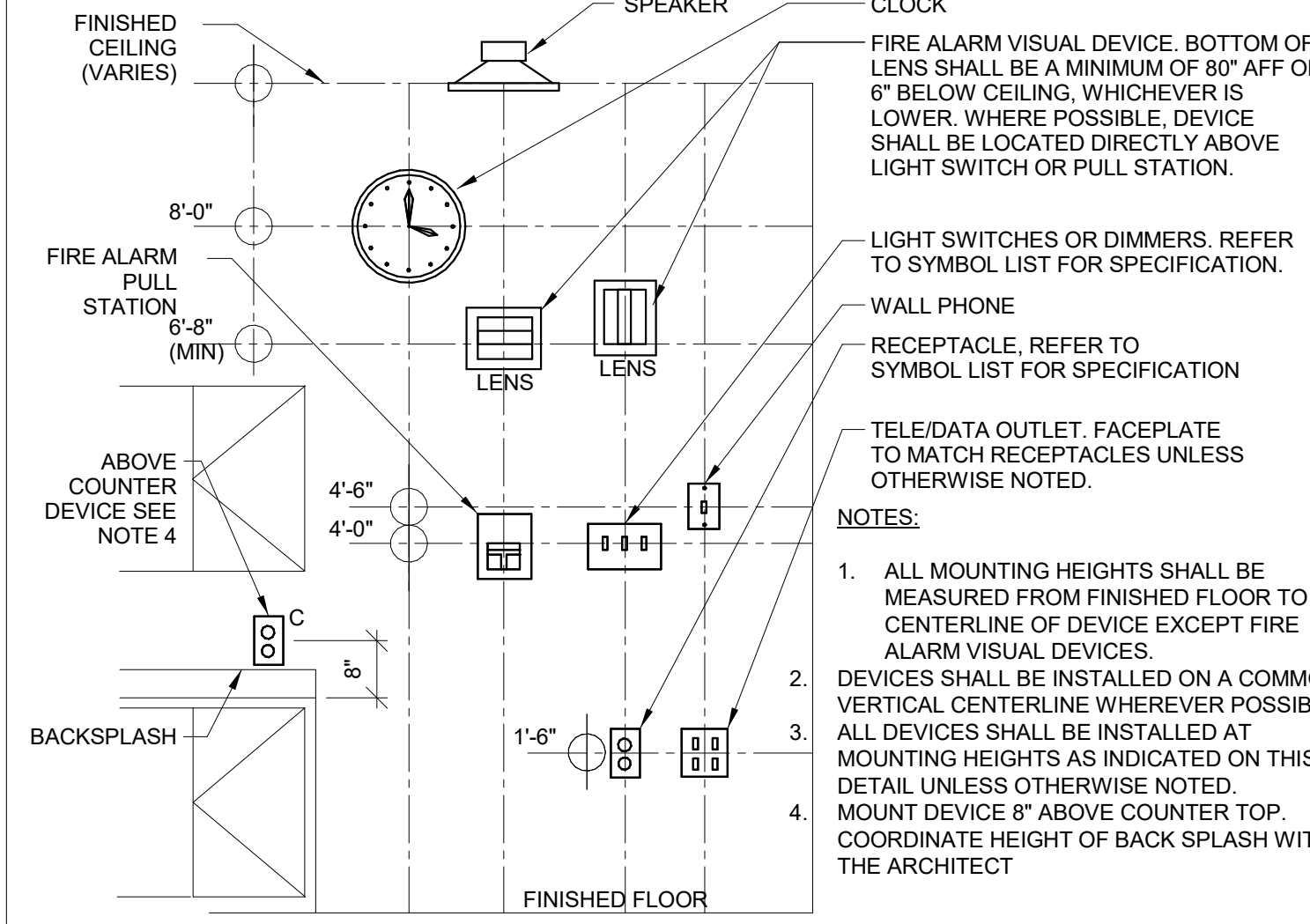
TYPICAL ARC FLASH LABEL

NTS



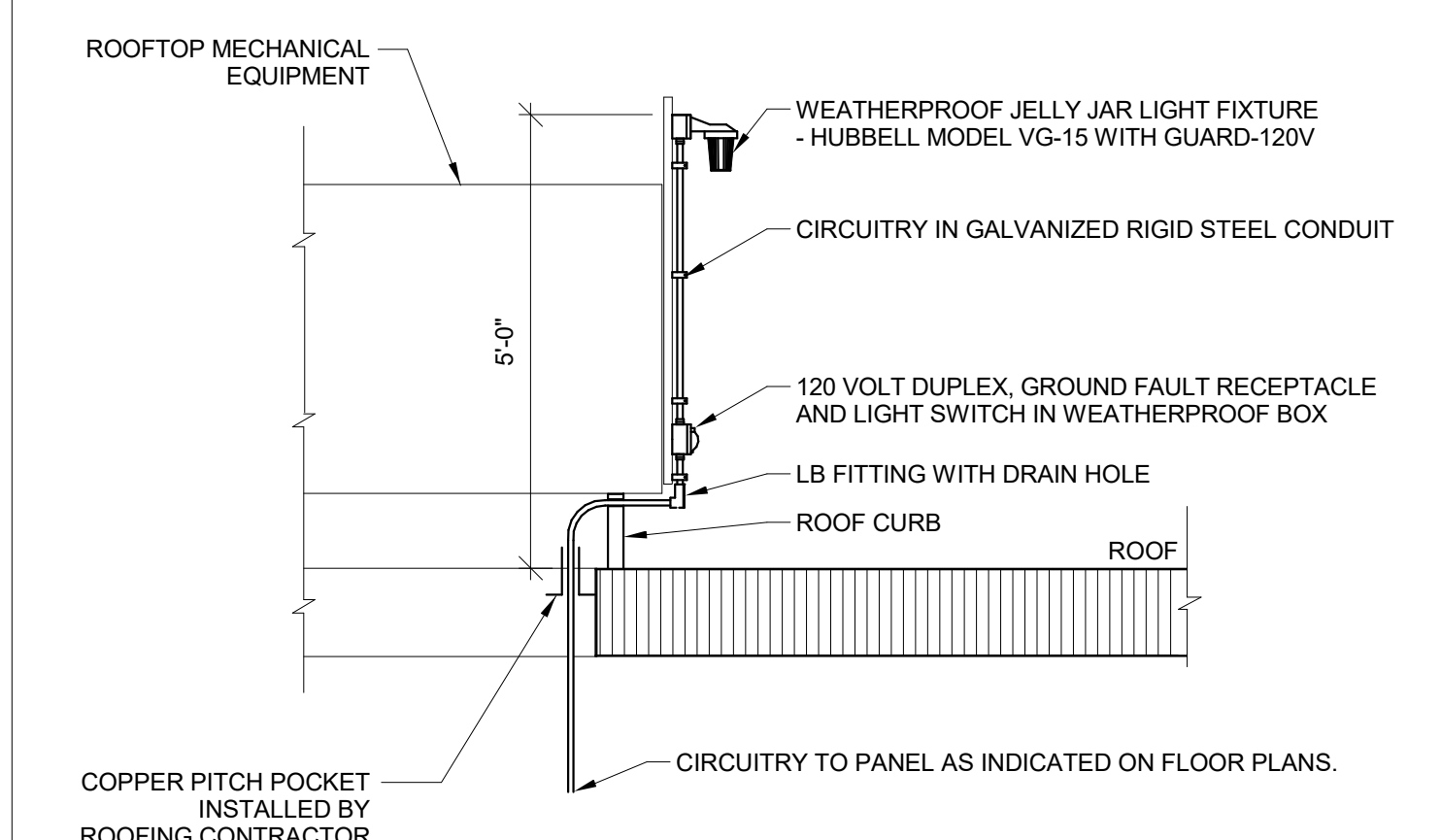
TYPICAL DISCONNECT SWITCH LABEL

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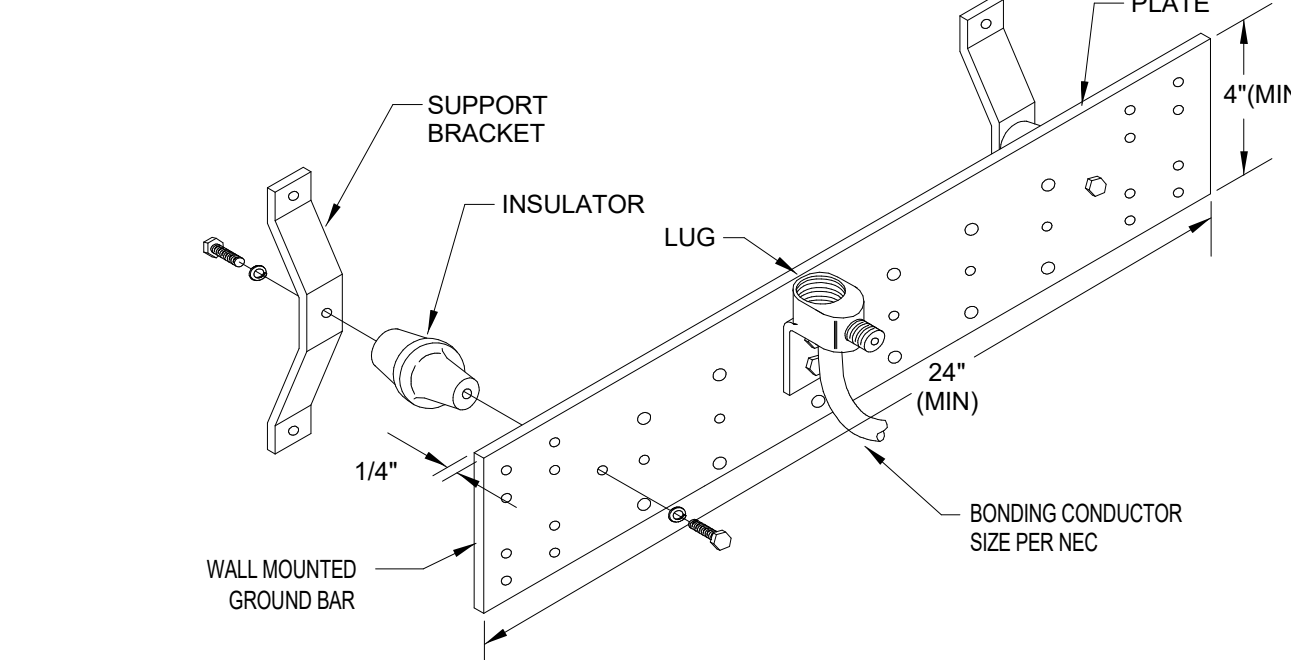
TYPICAL MOUNTING HEIGHTS

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TYPICAL ROOFTOP EQUIPMENT RECEPTACLE AND LIGHTING DETAIL

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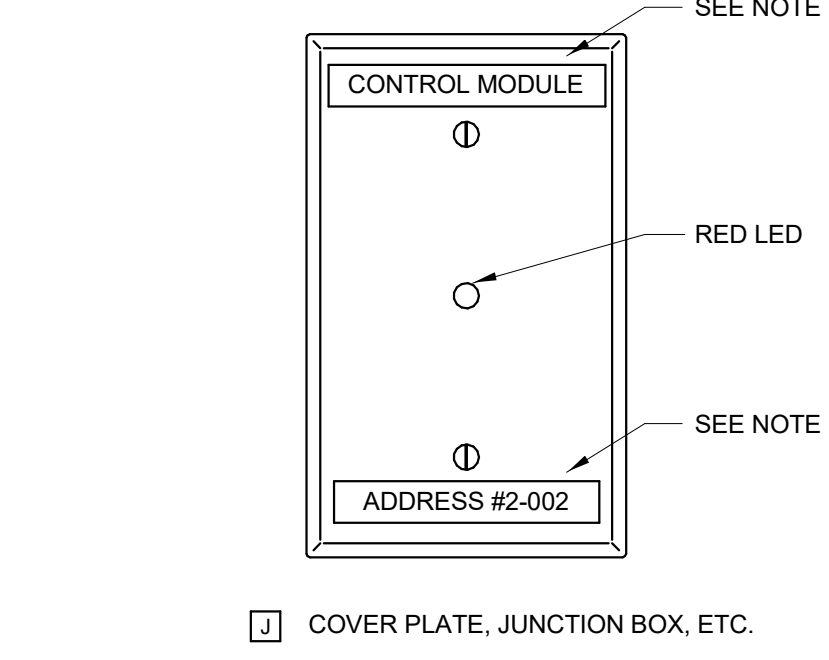


TYPICAL GROUND BAR DETAIL

NTS

NOTES:

1. MINIMUM 2" STAND-OFF FROM WALL TO BACK SIDE OF PLATE

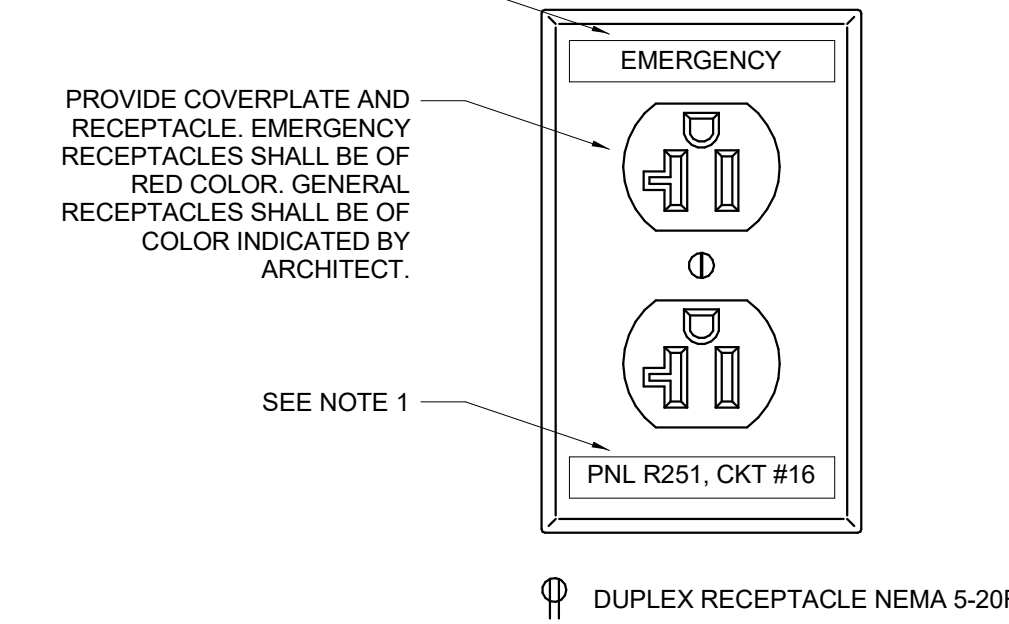


TYPICAL FIRE ALARM LABELING

NTS

NOTES:

1. AT A MINIMUM, ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED LABELS WITH PTOUCH MACHINE TO INDICATE FIRE ALARM DEVICE AND ADDRESS OR ZONE NUMBER. COORDINATE EXACT NAMING WITH FACILITY'S PERSONNEL. IF FACILITY STANDARD IS ENGRAVED COVERPLATES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED COVERPLATES TO MATCH FACILITY REQUIREMENTS.

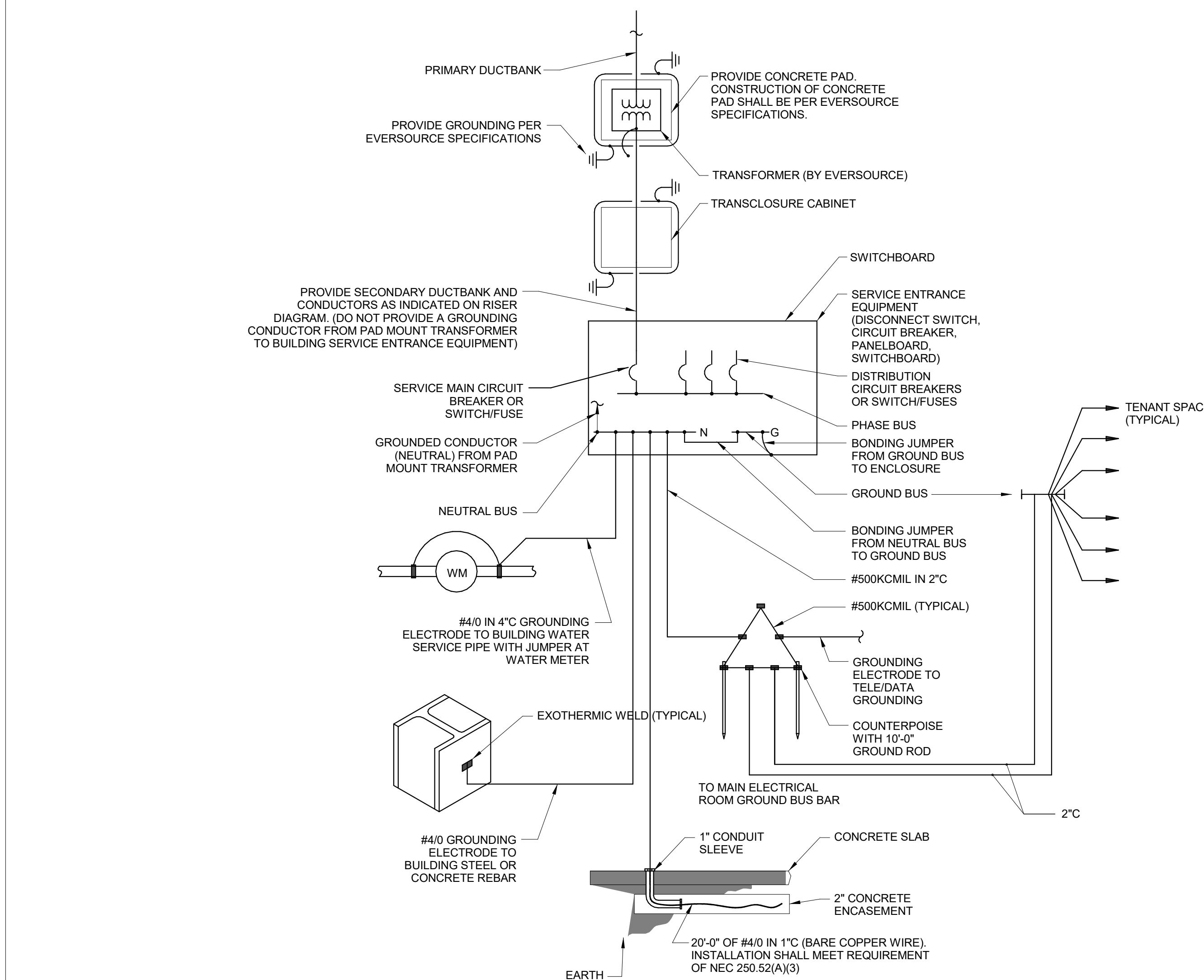


TYPICAL RECEPTACLE LABELING

NTS

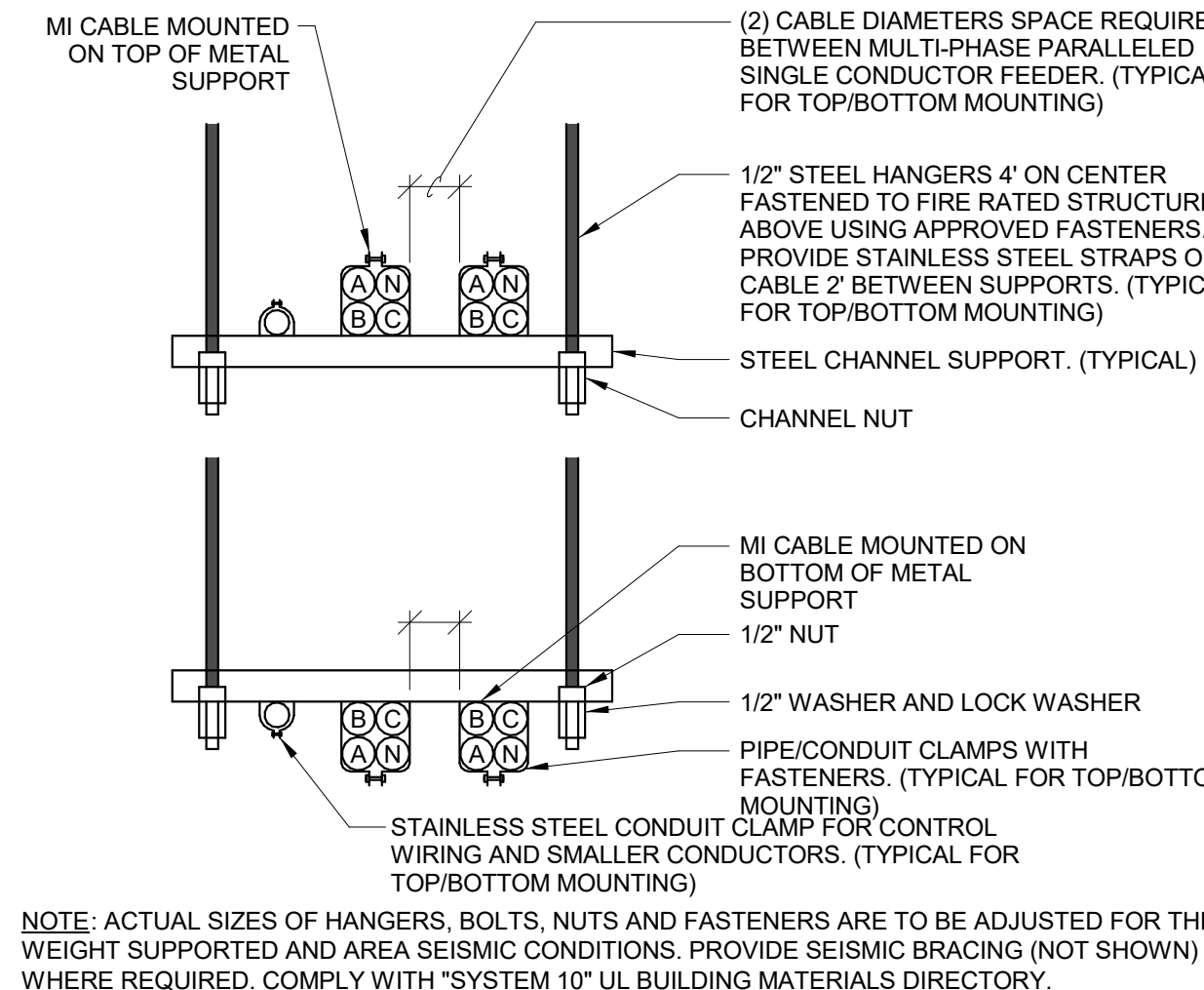
NOTES:

1. AT A MINIMUM, ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED LABELS WITH PTOUCH MACHINE TO INDICATE PANEL NAME AND CIRCUIT NUMBER. PROVIDE 'EMERGENCY' TYPED LABEL FOR CIRCUITS CONNECTED TO EMERGENCY PANELS. COORDINATE EXACT NAMING WITH FACILITY'S PERSONNEL. IF FACILITY STANDARD IS ENGRAVED COVERPLATES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED COVERPLATES TO MATCH FACILITY REQUIREMENTS.



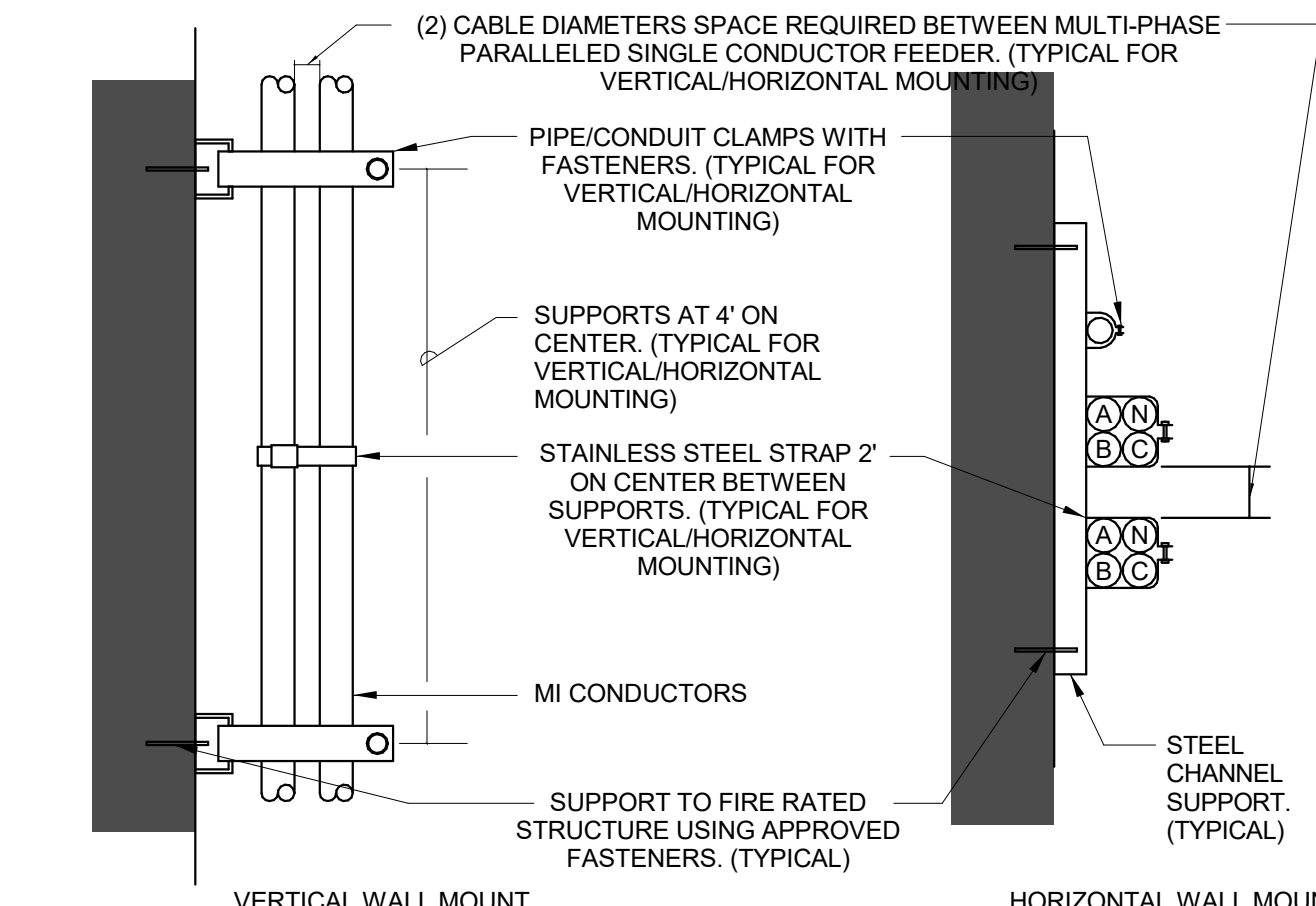
ELECTRIC SERVICE GROUNDING ELECTRODE DETAILS

NTS



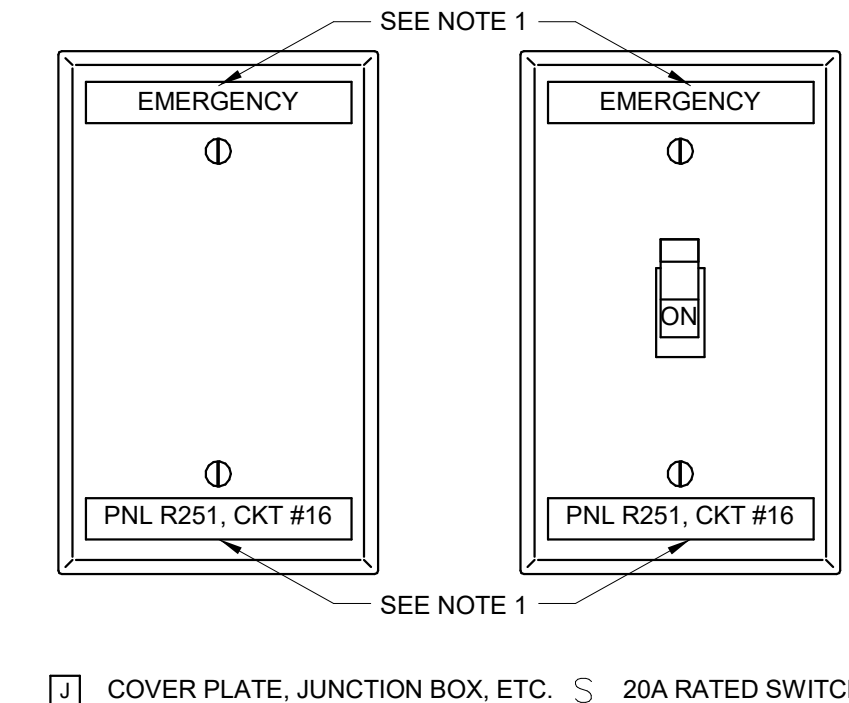
TYPICAL MI CABLE CEILING MOUNTING

NTS



TYPICAL MI CABLE WALL MOUNTING DETAIL

NTS



TYPICAL COVERPLATE AND SWITCH

NTS

NOTES:

1. AT A MINIMUM, ELECTRICAL CONTRACTOR SHALL PROVIDE TYPED LABELS WITH PTOUCH MACHINE TO INDICATE PANEL NAME AND CIRCUIT NUMBER. PROVIDE 'EMERGENCY' TYPED LABEL FOR CIRCUITS CONNECTED TO EMERGENCY PANELS. COORDINATE EXACT NAMING WITH FACILITY'S PERSONNEL. IF FACILITY STANDARD IS ENGRAVED COVERPLATES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ENGRAVED COVERPLATES TO MATCH FACILITY REQUIREMENTS.



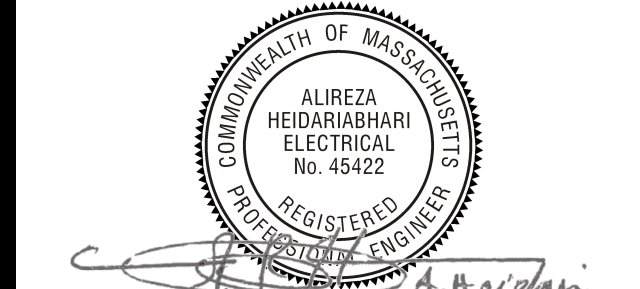
NOTES:

1. NAMEPLATES SHALL HAVE WHITE LETTERS ON BLACK BACKGROUND.
2. NAMEPLATES SHALL BE FASTENED BY MACHINE SCREWS. ADHESIVES WILL NOT BE ALLOWED.
3. NAMEPLATES SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO: PANELBOARDS, SWITCHBOARDS, MOTOR CONTROL CENTERS, STARTERS, JUNCTION BOXES, PULL BOXES, DISCONNECT SWITCHES, TRANSFORMERS, CABINETS, ETC.

TYPICAL ENGRAVED NAME PLATE

NTS

1	ISSUED FOR CONSTRUCTION	09/09/2022
Issued/Revision		YYYYMMDD
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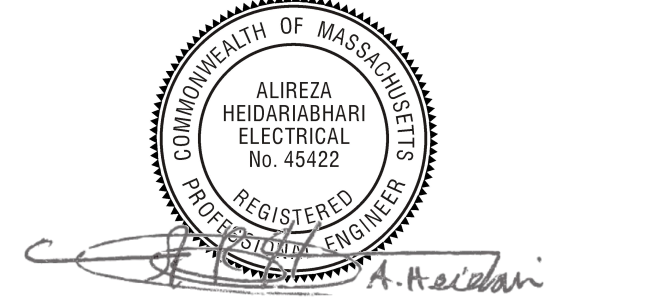


FIRE ALARM SYSTEM WIRING METHODS	
<u>REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION</u>	
FIRE ALARM SYSTEM RISER WIRING	TYPE NPLF AND FPLF CONDUCTORS IN EMT
FIRE ALARM SYSTEM CIRCUIT WIRING IN CONCEALED SPACES	TYPE NPLF AND FPL CONDUCTORS IN EMT OR MC
FIRE ALARM SYSTEM CIRCUIT WIRING IN EXPOSED SPACES VISIBLE TO PUBLIC	TYPE NPLF AND FPL CONDUCTORS IN SURFACE MOUNTED RACEWAY - WIREMOLD V500 OR APPROVED EQUAL
FIRE ALARM SYSTEM CIRCUIT WIRING IN UTILITY ROOMS OR EXTERIOR	TYPE NPLF AND FPL CONDUCTORS IN EMT

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Scale	As indicated
Project No.	218421128

ELECTRICAL FIRE
ALARM FLOOR PLAN -
BASEMENT

FA-100