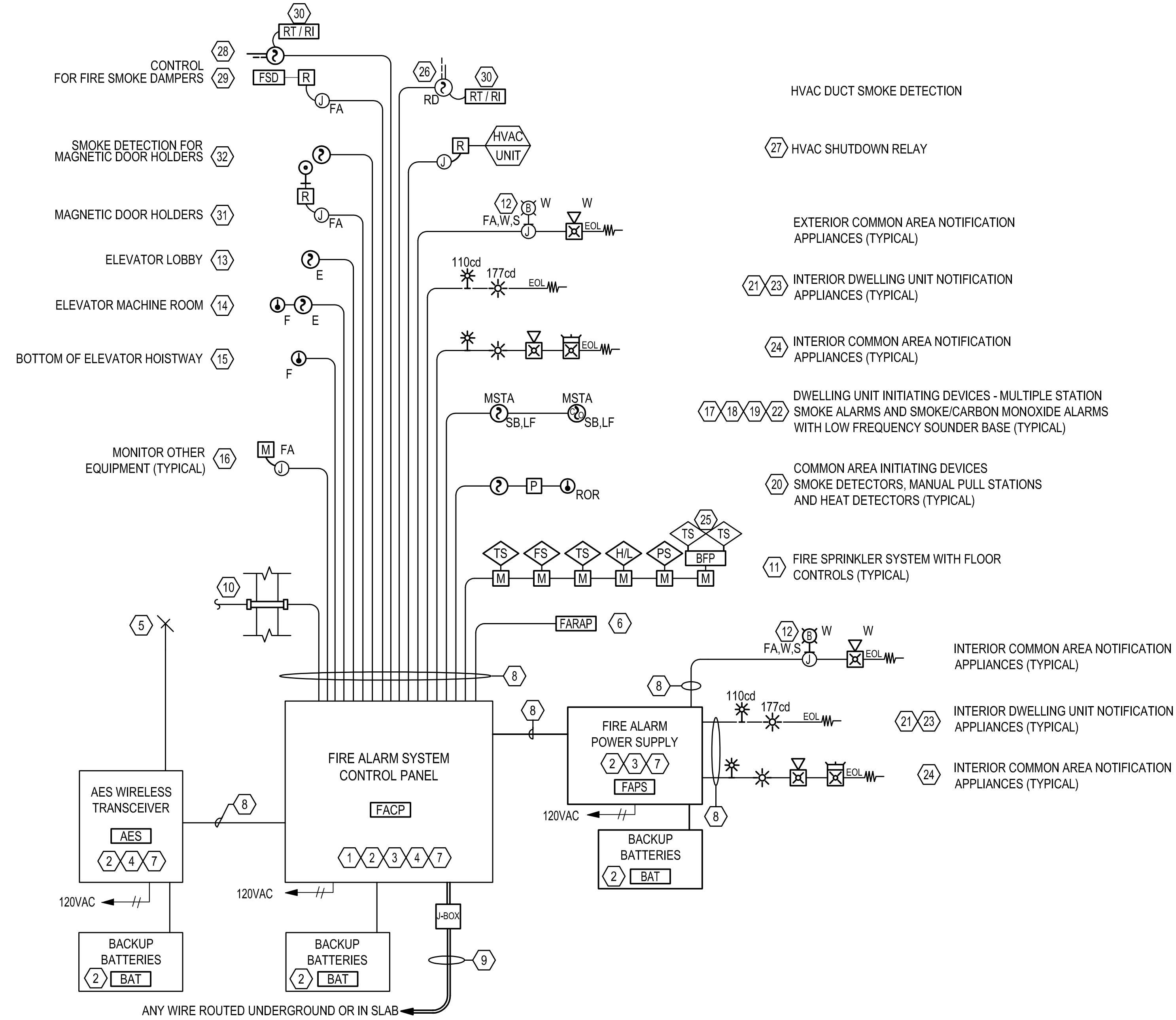


FIRE ALARM SYSTEM RISER DIAGRAM CONSTRUCTION NOTES

- 1 THE RISER DIAGRAM IS DIAGRAMMATIC IN NATURE. IT DOES NOT SHOW ALL DEVICES AND DOES NOT REPRESENT ACTUAL CONDUIT OR CABLE ROUTING.
 - 2 THE FIRE ALARM SYSTEM SHALL BE FULLY FUNCTIONAL WITHOUT THE USE OF PRIMARY POWER. THE FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A MINIMUM OF 24 HOURS OF STANDBY OPERATION FOLLOWED BY AN ADDITIONAL 5 MINUTES OF ALARM OPERATION. ALL BATTERIES SHALL BE SIZED TO PROVIDE AT LEAST 25% ADDITIONAL SPARE CAPACITY. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 3 PROVIDE SYSTEM POWER SUPPLIES WHERE REQUIRED. COORDINATE ADDITIONAL POWER CONNECTIONS THAT ARE NOT SHOWN ON ELECTRICAL DRAWINGS WITH ELECTRICAL CONTRACTOR AS REQUIRED. COST FOR ADDITIONAL CONNECTIONS SHALL BE INCLUDED.
 - 4 PROVIDE ALL NECESSARY EQUIPMENT, INTERFACES, OTHER APPURTENANCES, AND PROGRAMMING AS REQUIRED FOR COMMUNICATION TO THE CENTRAL STATION MONITORING COMPANY OR MONITORING STATION. SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING MONITORING AGREEMENT.
 - 5 FIRE ALARM CONTRACTOR SHALL MEASURE AES SIGNAL STRENGTH. SIGNAL STRENGTH SHALL BE A NETCON 5 OR BETTER. IF AN OUTDOOR ANTENNA IS REQUIRED, MOUNT ANTENNA SO IT REACHES ABOVE THE ROOF LINE OF THE BUILDING
 - 6 FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL INSTALLED WHERE REQUIRED BY AHJ - FRONT ENTRY.
 - 7 PROVIDE SURGE PROTECTION ON ALL INCOMING PRIMARY POWER SUPPLIES SERVING FIRE ALARM SYSTEM PANELS.
 - 8 PROVIDE SYSTEM CABLES FOR A FULLY FUNCTIONAL SYSTEM AS REQUIRED.
 - 9 ALL WIRE RUN UNDERGROUND SHALL BE SUITABLE FOR "WET" INSTALLATIONS.
 - 10 FIRE ALARM SYSTEM CABLING THAT PENETRATES EXISTING OR NEW WALLS SHALL BE PROVIDED WITH AN APPROVED PENETRATION METHOD AS OUTLINED IN THE PROJECT SPECIFICATIONS.
 - 11 FIRE SPRINKLER SYSTEM SWITCHES ARE ALL EXISTING. THE SWITCHES SHALL BE WIRED AND CONNECTED TO THE NEW FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR. EXACT QUANTITIES AND LOCATIONS OF ALL FIRE SPRINKLER SWITCHES, WHICH SHALL BE MONITORED BY THE FIRE ALARM SYSTEM ARE SHOWN WITHIN THE FIRE ALARM SITE ASSESSMENT.
 - 12 THE 24 VOLTS D.C. SPRINKLER SYSTEM ALARM BELL/STROBE SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM CONTRACTOR. THE FIRE ALARM CONTRACTOR SHALL WIRE AND CONNECT THE ALARM BELL TO THE FIRE ALARM SYSTEM CONTROL PANEL (FACP) AND PROGRAM THE ALARM BELL TO ACTIVATE UPON THE FLOW OF WATER.
 - 13 PROVIDE A SMOKE DETECTOR IN THE ELEVATOR LOBBY FOR ELEVATOR RECALL ON ALL LEVELS.
 - 14 PROVIDE SMOKE DETECTOR IN ELEVATOR MACHINE ROOM FOR ELEVATOR RECALL AND, A 135°F FIXED TEMPERATURE HEAT DETECTOR FOR ACTUATION OF THE SHUNT TRIP BREAKER FEATURE.
 - 15 THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A 135°F HEAT DETECTOR AT THE BOTTOM OF THE ELEVATOR HOISTWAY WITHIN 24" OF THE SPRINKLER HEAD FOR ACTUATION OF THE ELEVATOR RECALL FEATURE.
 - 16 FIRE ALARM SYSTEM SHALL MONITOR THE STATUS OF THE ELEVATOR SHUNT TRIP POSITION AND CONTROL ELEVATOR POWER AS REQUIRED BY ASME A17.1.
 - 17 WITHIN ANY ONE DWELLING UNIT, SYSTEM SMOKE DETECTORS SHALL BE PROGRAMMED TO ACT LIKE SINGLE- AND MULTIPLE-STATION ALARMS. WHEN THE DETECTOR IS ACTIVATED, THE SOUNDER BASE IS ACTIVATED; WHEN THE DETECTOR IS CLEARED, THE SOUNDER BASE IS DEACTIVATED. THE FIRE ALARM CONTRACTOR SHALL PROGRAM THESE DETECTORS TO ACTIVATE A SUPERVISORY INDICATION AT THE MAIN FIRE ALARM PANEL AND NOTIFY THE OFF-SITE MONITORING COMPANY OF THE CONDITION. THE MONITORING COMPANY SHALL BE DIRECTED TO TAKE NO ACTION OTHER THAN AUTOMATIC LOGGING AND EMAIL THE EVENT TO PROPERTY MANAGER.
 - 18 THE ACTIVATION OF ANY ONE DWELLING UNIT SMOKE DETECTOR SHALL ACTIVATE THE LOW FREQUENCY SOUNDER BASES OF ALL DWELLING UNIT SMOKE DETECTORS (AND STROBES, IF INSTALLED) WITHIN THAT DWELLING UNIT ONLY.
 - 19 THE ACTIVATION OF SMOKE DETECTORS WITHIN TWO SEPARATE ADJACENT DWELLING UNITS SHALL ACTIVATE THE BUILDING FIRE ALARM SYSTEM.
 - 20 ACTIVATION OF ANY COMMON AREA SMOKE DETECTOR, HEAT DETECTOR, MANUAL PULL STATION, OR SPRINKLER FLOW SHALL ACTIVATE THE BUILDING FIRE ALARM SYSTEM.
 - 21 THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE VISUAL COVERAGE FOR ALL ACCESSIBLE ADA DWELLING UNITS. IF VISUAL COVERAGE IS PROVIDED ON WALLS, GREATER THAN 24" DOWN FROM CEILING, STROBE INTENSITY SHALL BE 110CD. IF VISUAL COVERAGE IS PROVIDED ON THE CEILING OR THE WALL LESS THAN 24" DOWN FROM THE CEILING, STROBE INTENSITY SHALL BE 177CD. VISUAL DEVICES SHALL BE PROVIDED IN EACH BEDROOM, LIVINGROOM, AND BATHROOM.
 - 22 DWELLING UNIT AUDIBLE NOTIFICATION SHALL BE ACCOMPLISHED BY LOW FREQUENCY SOUNDER BASES. THERE SHALL BE NO MORE THAN 4 DWELLING UNITS BEING SERVED FROM ONE SOUNDER BASE NOTIFICATION APPLIANCE CIRCUIT. THIS ALLOWS FOR THE ADDITION OF VISUAL COVERAGE TO ANY ONE OF 4 UNITS IF A "MODERATELY SEVERE TO PROFOUND HEARING LOSS" TENANT MOVES INTO A DWELLING UNIT. DWELLING UNIT NOTIFICATION CIRCUIT END OF LINE RESISTORS SHALL BE LOCATED IN THE LIVING ROOM OF THE DWELLING UNIT.
 - 23 ANY DWELLING UNIT CURRENTLY OCCUPIED BY A "MODERATELY SEVERE TO PROFOUND HEARING LOSS" TENANT SHALL BE PROVIDED WITH VISUAL COVERAGE AS DESCRIBED ABOVE IN NOTE 20.
 - 24 COMMON AREA NOTIFICATION POWER SUPPLY CIRCUITS SHALL BE KEPT SEPARATE FROM DWELLING UNIT NOTIFICATION POWER SUPPLY CIRCUITS. COMMON AREA NOTIFICATION CIRCUIT END OF LINE RESISTORS SHALL BE LOCATED WITHIN AN ACCESSIBLE COMMON SPACE.
 - 25 BACKFLOW PREVENTER (BFP) TAMPER SWITCH MONITORING IS REQUIRED. SEE FIRE ALARM SITE ASSESSMENT FOR LOCATION. ADDRESSABLE MONITOR MODULES MUST REMAIN IN A CONDITIONED SPACE AND WET RATED CABLE INSTALLED FROM THE ADDRESSABLE MODULE TO ANY OUTSIDE TAMPER SWITCHES
- THE FOLLOWING ITEMS ARE NOT CONFIRMED TO BE EXISTING. THE FIRE ALARM SYSTEM CONTRACTOR SHALL VERIFY AND PROVIDE IF NECESSARY:
- 26 DUCT SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED, AND WIRED BY THE FIRE ALARM SYSTEM CONTRACTOR. INSTALL DUCT SMOKE DETECTORS FOR AIR HANDLING UNITS GREATER THAN 2,000 C.F.M. CAPACITY ON THE RETURN SIDE OF H.V.A.C. UNIT PER INTERNATIONAL MECHANICAL CODE SECTION 606.2. (WHERE EXISTING) (CONTRACTOR TO VERIFY IF EXISTING).
 - 27 THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO SHUT DOWN THE H.V.A.C. UNIT UPON ACTIVATION OF H.V.A.C. UNIT DUCT SMOKE DETECTOR IN ADDITION TO TRANSMITTING A SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL PANEL. (WHERE EXISTING) (CONTRACTOR TO VERIFY IF EXISTING).
 - 28 A DUCT SMOKE DETECTOR SHALL BE INSTALLED ON THE SUPPLY SIDE WITHIN 5FT OF FIRE SMOKE DAMPER. DUCT DETECTOR SHALL BE PROVIDED BY FIRE ALARM / EMERGENCY COMMUNICATION CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR WITH CABLING AND TERMINATION PROVIDED BY THE ELECTRICAL CONTRACTOR. FIRE SMOKE DAMPER SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. (WHERE EXISTING) (CONTRACTOR TO VERIFY IF EXISTING).
 - 29 THE FIRE ALARM CONTRACTOR SHALL PROVIDE A RELAY MODULE TO CLOSE FIRE SMOKE DAMPER UPON ACTIVATION OF DUCT SMOKE DETECTOR IN ADDITION TO TRANSMITTING A SUPERVISORY SIGNAL AT THE FIRE ALARM CONTROL PANEL. (WHERE EXISTING) (CONTRACTOR TO VERIFY IF EXISTING).
 - 30 PROVIDE REMOTE ALARM INDICATOR FOR EACH INITIATING DEVICE NOT VISIBLE FROM THE FLOOR (WHERE APPLICABLE). REMOTE ALARM INDICATORS INSTALLED IN ACOUSTICAL CEILING TILES SHALL BE CENTERED ON THE CEILING TILES (12" FROM AN ACOUSTICAL TILE RUNNER) OR ON THE WALL OF EXPOSED STRUCTURE SPACES.
 - 31 THE FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE A RELAY MODULE FOR CONNECTION TO THE MAGNETIC DOOR HOLDERS. THE MAGNETIC DOOR HOLDER SHALL RELEASE UPON ACTIVATION OF THE SMOKE DETECTOR SERVING THE DOOR HOLDERS OR UPON RECEIVING AN ALARM SIGNAL FROM THE FIRE ALARM SYSTEM CONTROL PANEL. (WHERE APPLICABLE) PROVIDE NEW IF NECESSARY.
 - 32 SMOKE DETECTOR FOR MAGNETIC DOOR HOLDER RELEASE SHALL BE LOCATED WITHIN 5'-0" OF THE DOOR IT IS SERVING AND INSTALLED ALONG THE CENTERLINE OF THE DOOR OPENING UNLESS SMOKE DETECTION AS PART OF AN OPEN AREA PROTECTION SYSTEM COVERING THE ROOM, CORRIDOR, OR ENCLOSED SPACE ON EACH SIDE OF THE SMOKE DOOR AND THAT ARE LOCATED AND SPACED AS REQUIRED BY NFPA #72 SECTION 17.7.3 SHALL BE PERMITTED TO ACCOMPLISH SMOKE DOOR RELEASE SERVICE. (WHERE APPLICABLE).

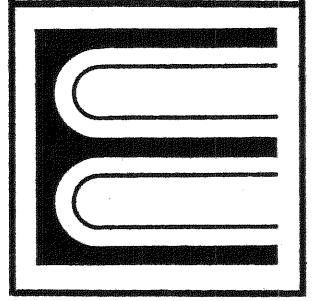


1 FIRE ALARM SYSTEM RISER DIAGRAM
DIAGRAMMATIC

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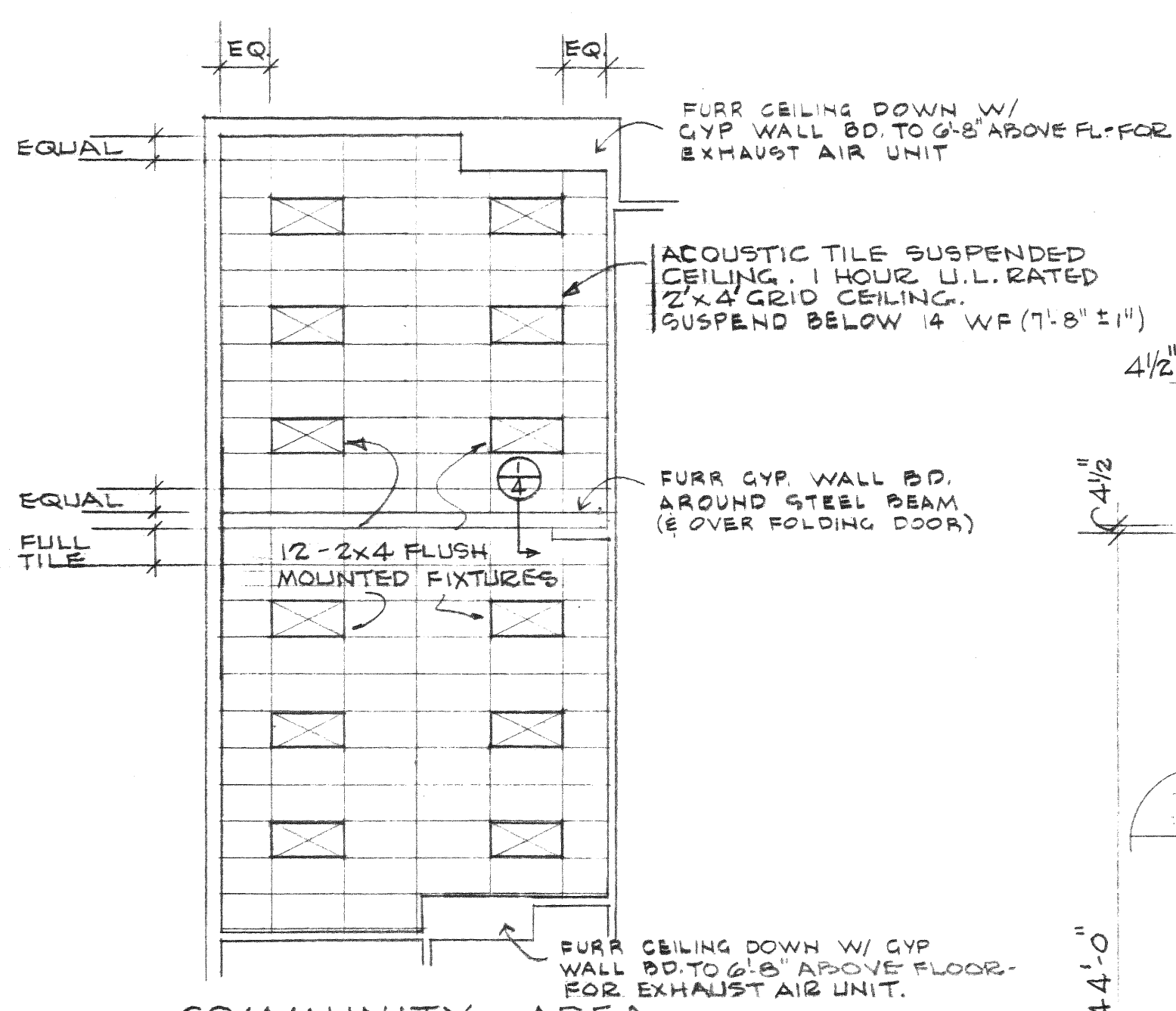
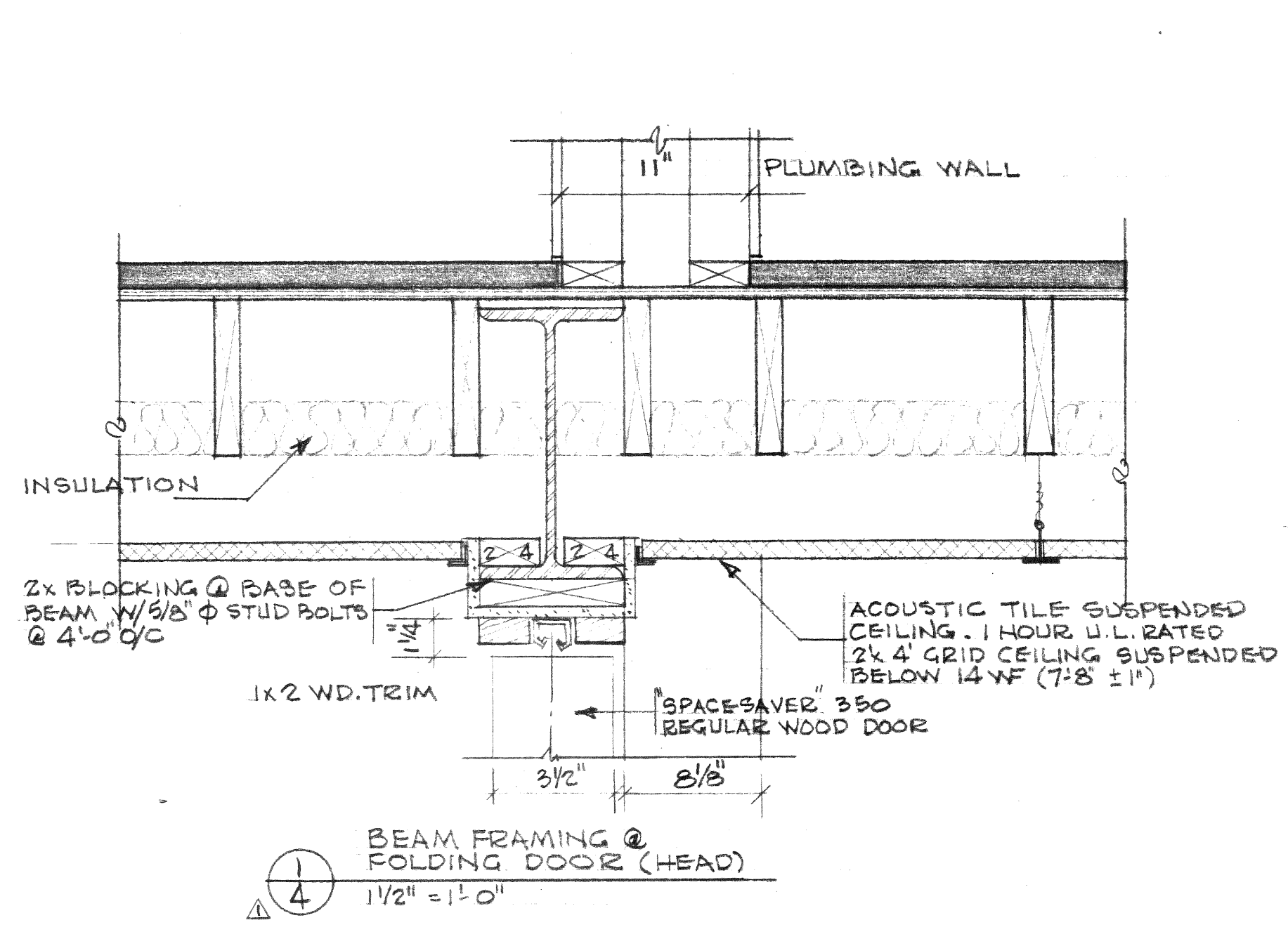
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 drawn M.T.L.E.Z.
 checked J.M.A.
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 seattle, washington 98119
 401 Elliott Ave. West

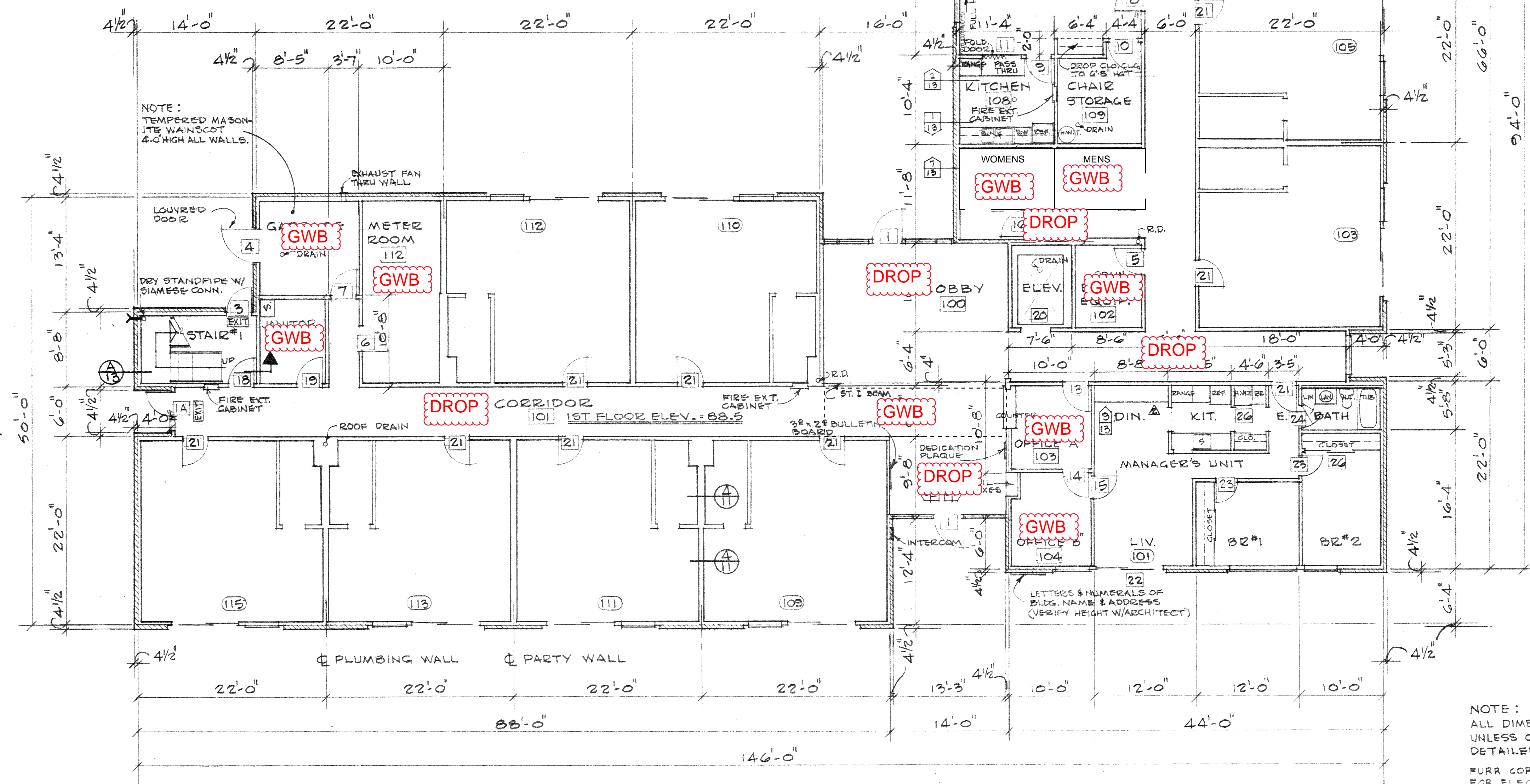


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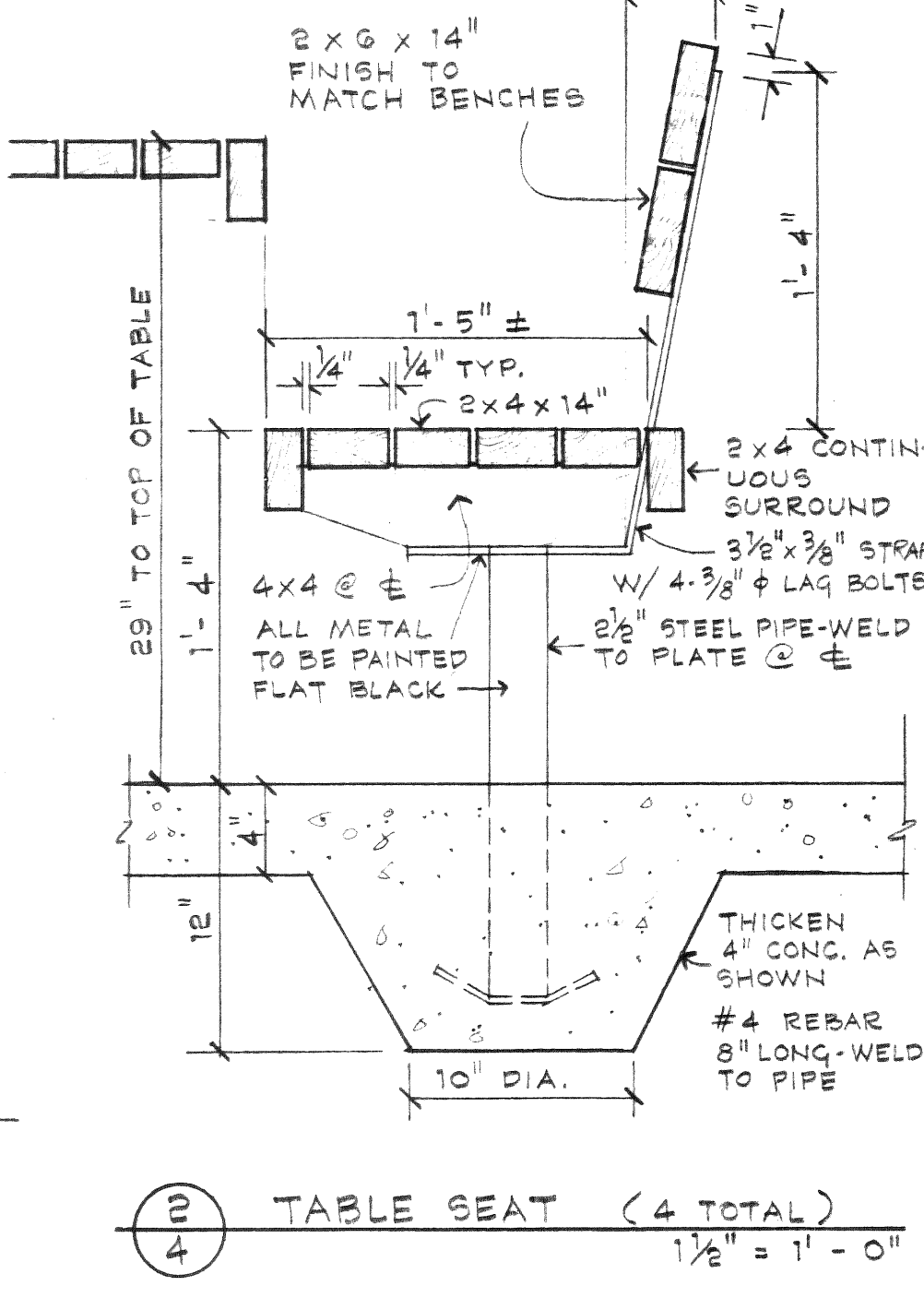
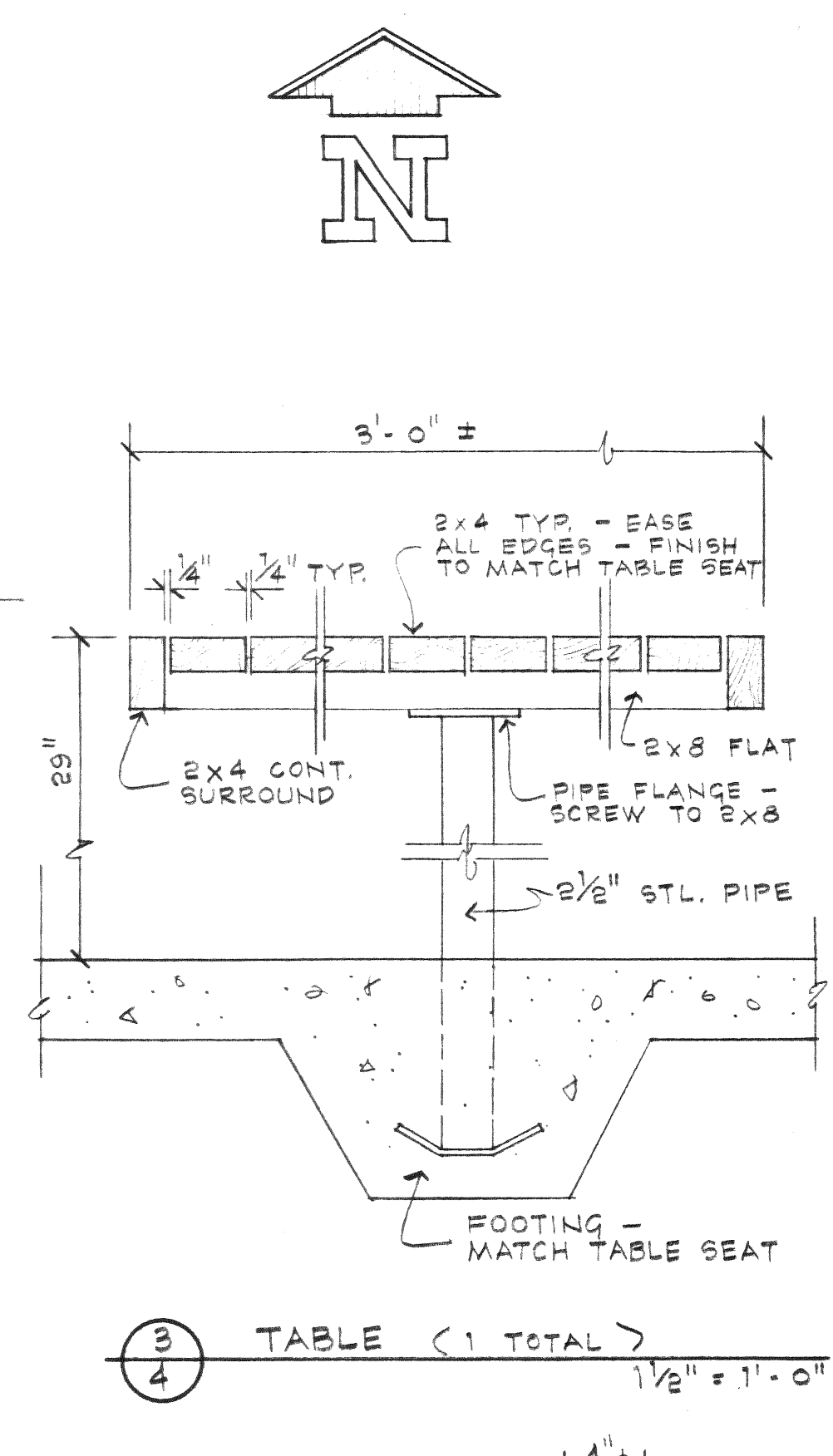
A 40 UNIT APARTMENT BUILDING FOR SENIOR CITIZENS
 FOR THE HOUSING AUTHORITY OF THE COUNTY OF KING, WASH
 WEST SUNSET WAY & 12TH AVENUE N., ISSAQUAH, WASHINGTON
 DEVELOPER: STRAND INCORPORATED
FIRST FLOOR PLAN



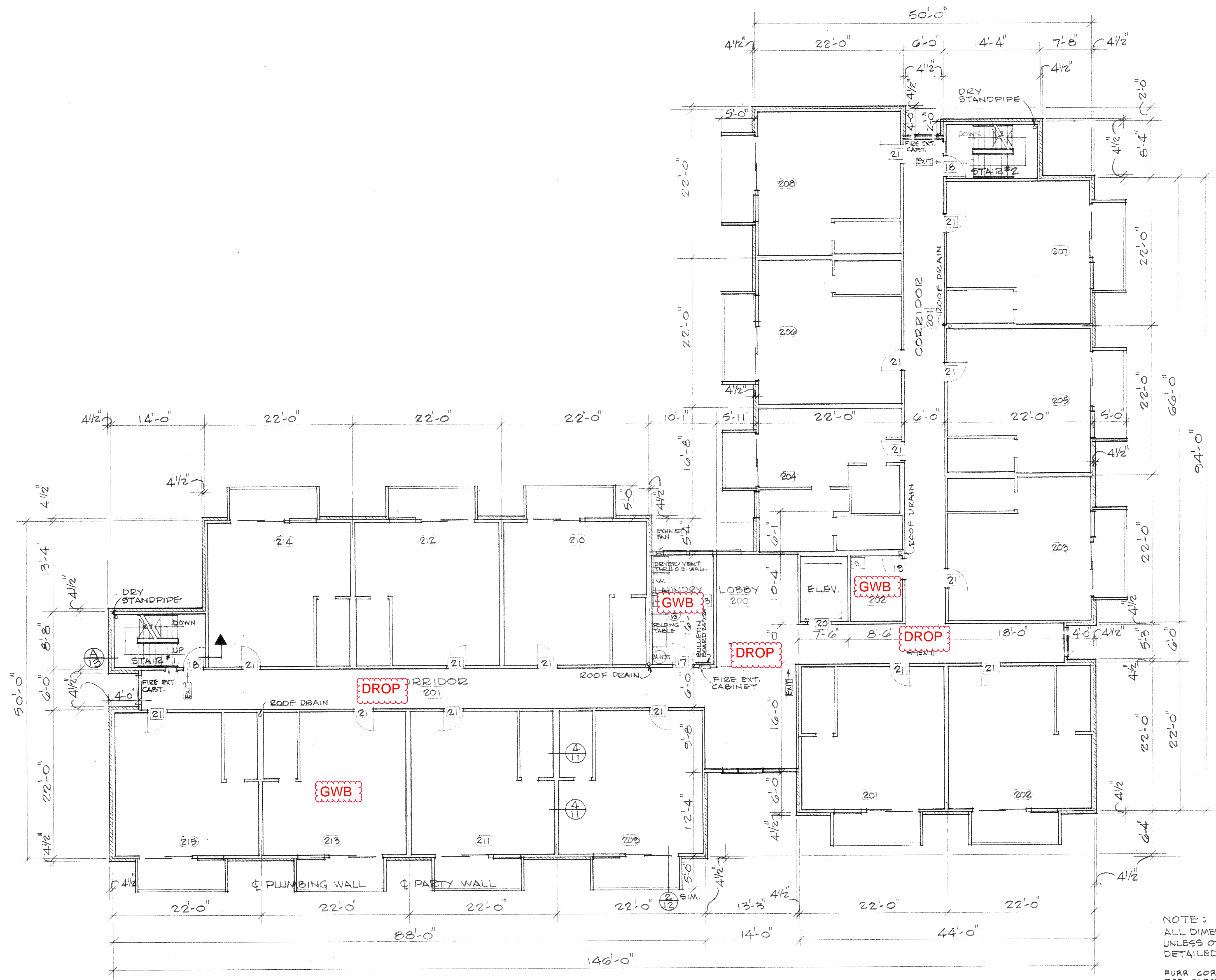
COMMUNITY AREA REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"



FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"

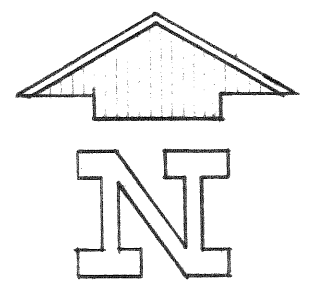


NOTE:
 ALL DIMENSIONS TO FACE OF STUDS UNLESS OTHERWISE NOTED OR DETAILED OTHERWISE.
 FURR CORRIDOR CEILING DOWN TO 8' FOR ELECTRICAL (CORR & LOBBY SAME HEIGHT)
 SEE SHEET #7 FOR INTERIOR OF TYPICAL UNIT - ALL UNITS TYPICAL 1 BEDROOM, EXCEPT 2-BR MANAGER'S UNIT (101).



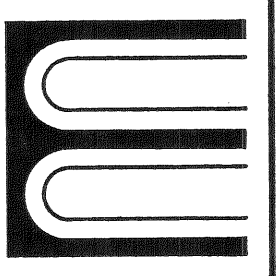
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 DETAILED OTHERWISE.
 FURR CORRIDOR CEILING DOWN TO 8'
 FOR ELECTRICAL (CORR. & LOBBY SAME HEIGHT)

SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



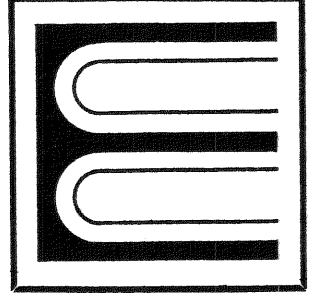
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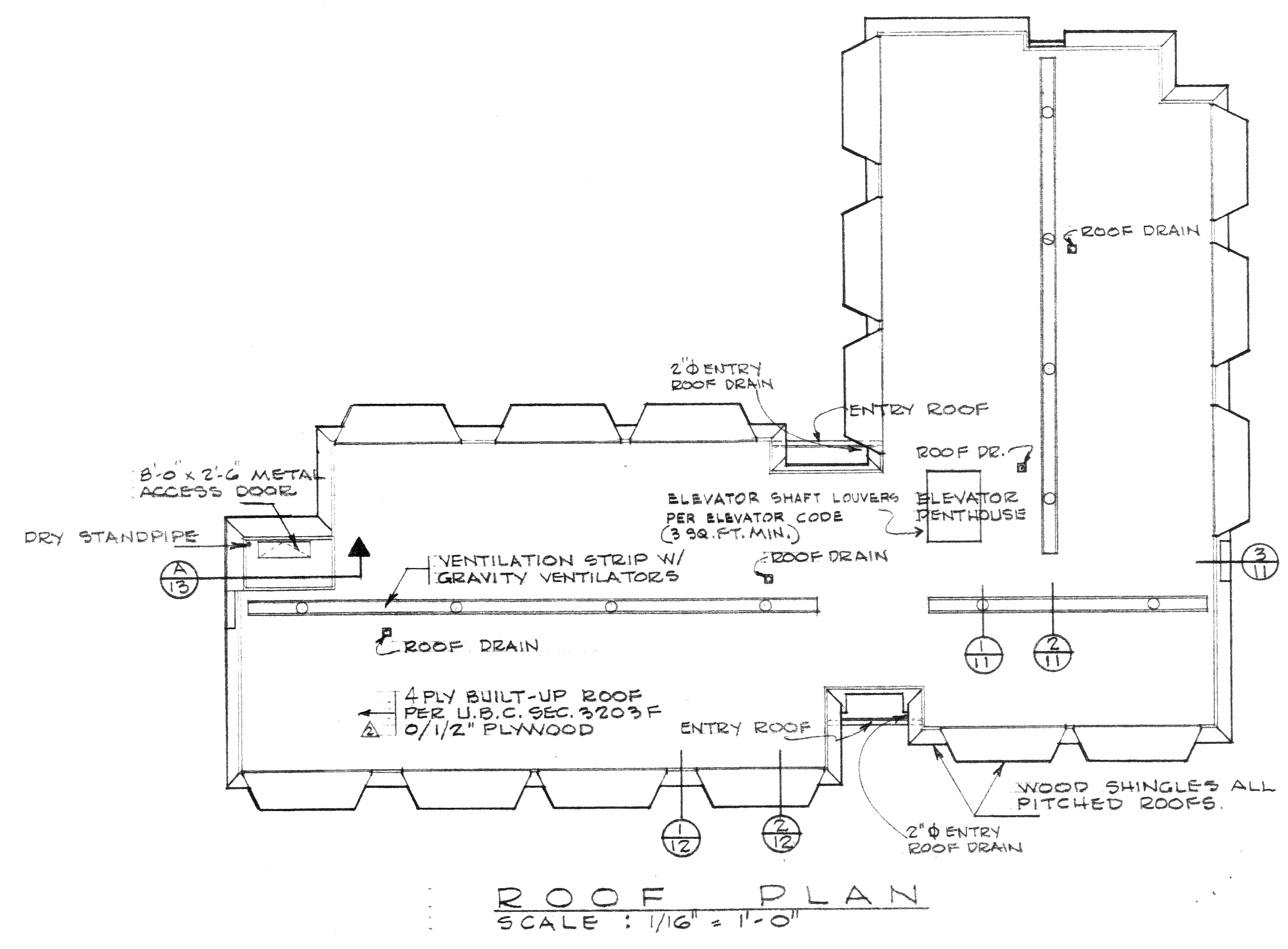
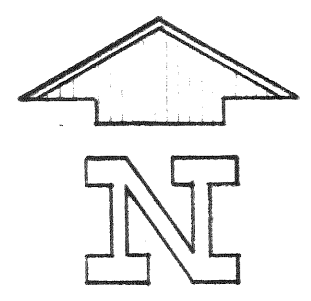


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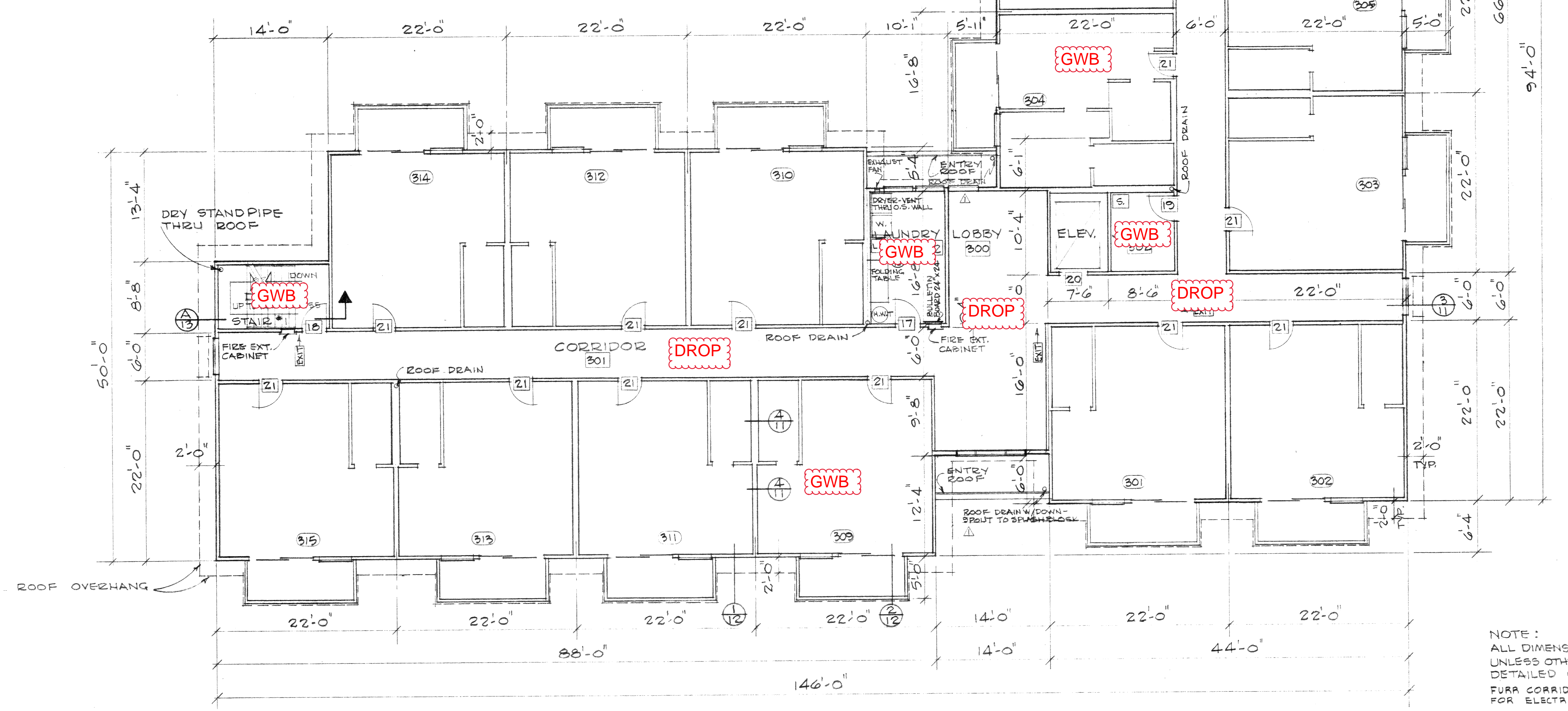
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REGISTERED ARCHITECT
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 STATE OF WASHINGTON



ROOF PLAN
 SCALE: 1/16" = 1'-0"



THIRD FLOOR PLAN
 SCALE: 1/8" = 1'-0"

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 UNLESS OTHERWISE NOTED OR
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 FULL CORRIDOR CEILING DOWN TO 8'
 FOR ELECTRICAL (CORR. & LOBBY SAME HEIGHT)