

| Code Summary  |   |   |
|---|---|---|
| J1307 - Philip Read Memorial Library - Lower Level Fit-Up |   |   |
| Location  |   | Plainfield, NH 03781                      |
| Date of Research:   | April 20, 2011  |   |
| Revised:  | June 24, 2011   |   |
| Researcher:   | Tom Weller, Architect - NH License #01405   |   |
| Applicable Codes:   | Building IBC 2009<br>Fire/Life Safety NFPA 1, UFC 2003 Edition (State Fire Code)<br>Plumbing IPC 2009 with Amendments<br>Mechanical IMC 2009 with Amendments<br>Electrical NEC 2009 with Amendments<br>Accessibility IBC 2009, ICC?ANSI A117.1-2003<br>Energy IECC 2009 with Amendments |   |
| Use Groups:   | Assembly A-3  | IBC Chapter 3 / NFPA Sections 12 and 13   |
| Use Group 1:  |   | IBC 303                                   |
|   |   | Code Ref/Page:                            |
| Fire Separation:  | Vertical Exit Enclosures: less than four stories shall be 1-hour<br>Vertical Exit Enclosures: connects 3 stories or less shall be 1-hour  |   |
|   |   | IBC 707.3.2, 1022.1<br>NFPA 7.1.3.2.1.1   |
| Communication Spaces                                      | Communicating spaces (stories) are not permitted in unsprinklered building  | NFPA 8.6.6.4.a                            |
| Protection of Vertical Openings                           | Any vertical opening shall be protected per 8.6 unless permitted by exception. Exception 12.3.1.1 is not applicable   | NFPA 12.3.1                               |
|   | Required fire resistance rating for the enclosure of floor openings shall be not less than 1-hr (see 7.1.3.2.1 for enclosure of exits)  | NFPA 8.6.5.2                              |
|   | Floor construction is not required to be rated.   | IBC Table 601 and NFPA Table A.8.2.1.2    |
| Fire Protection System:                                   | Assembly occupancies with occupancy loads of more than 300 shall be provided with an approved supervised automatic sprinkler system in accordance with 9.7. Occupancy is less than 300 = Not Required   | IBC Table 503 and NFPA 12.3.5             |
| Detection and Alarm                                       | Assembly occupancies with occupancy loads of more than 300 shall be provided with an approved fire alarm system in accordance with 9.6.12 and 12.3.4. PROVIDED but NOT REQ'D  | NFPA 12.3.4                               |
| Occupant Load:  |   | NFPA 12.1.7                               |
|   | Total Actual: 165   | NFPA Table 7.3.1.2                        |
| Classification of Occupancy:                              | Class C - occupant load of 50 or more but not greater than 300 persons  |   |
| Occupant Load Posting                                     | Every room consisting of assembly occupancy (non-fixed seating) shall have the occupancy load posted in conspicuous place near the main exit from that room   | NFPA 12.7.8.3                             |
| Use Group 1:  | Single Occupancy Use Group  | Code Ref/Page:                            |
| Building Type:  | New and Existing Assembly   | NFPA Ch. 12                               |
|   |   | IBC 602.3                                 |
| Construction Type:  |   |   |
|   | Minimum Required: 5B / V (000)  | IBC Ch. 8 / NFPA 12 New & 13 Existing     |
|   | Actual: 5B / V (000)  | IBC Table 601 / NFPA 12.1.6 and 13.1.6    |
|   | New addition is Building Type 5B Construction (IBC 602.5) or V (000)  |   |
| Height:   | 1 Story 20' and 4,200 SF / Floor  |   |
|   | Allowable: 20'  | IBC Table 503                             |
|   | Actual: 20'6"   |   |
| Height Modifications:                                     | none taken  | IBC 604.2                                 |
| Number of Floors:   |   | IBC Table 503                             |
|   | Allowable: 1  |   |
|   | Actual: 1 at 2'-11" Above LED / 1 at 8'-5" Below LED  |   |
| Area (per floor):   |   | IBC Table 503                             |
|   | Allowable: 4,200 sq ft / Floor  |   |
|   | Actual: 4,457 sq ft gross (Existing - 1,007 / New - 3,450)  |   |
| Area Modifications:                                       | Increase by Frontage = 60%  | IBC 508.2                                 |
|   | 6,720 SF  |   |
| Fire Suppression System                                   | none provided (permitted)   |   |
| Egress Capacity:  |   | IBC Ch. 10, NFPA Ch. 7                    |
|   | Stairs: 0.37/person without sprinkler system  | IBC 1005.1                                |
|   | Other Egress Components: 0.27/person without sprinkler system   | IBC 1005.1                                |
|   | Corridors: greater than 50 occupants - 4" min   | IBC 1008.2 / 1005.1                       |
|   |   | IBC 1008.2.2                              |
| Occupancy (Building Gross)                                | Exist First and new Lower Level = 165 persons total per Occupant Load Factors (Meeting Room occupancy based on 7 SF/PP (chairs only)  | NFPA Table 7.3.1.2 and ICC Table 1004.1.1 |
| Travel Distances:   |   | NFPA 7.6                                  |
| Room Exit Access to Exit (unsprinklered)                  | Common Path Limit: (207/6h) Dead End Limit: (20h) Travel Distance Limit: (150ft)  | Table NFPA 7.6                            |
| Area of Refuge Req'd:                                     | Subsection 7.5.4 requires a minimum of 2 accessible means of egress in all new construction regardless of occupancy classification  | NFPA 7.2.12.1.1 and ICC 1007              |
|   | Stairs not less than 48" are provided   | NFPA 7.2.12.2.3                           |
|   | Provide 2-way communication system for communication to a central control point   | NFPA 7.2.12.2.5 and ICC 107.6.3           |
|   | Minimum space requirement located in exit stair enclosures to be 30"x48" for head in and 30"x 60" side access   | NFPA 7.2.12.3.1 and ICC 1007.6.1          |
|   | Area of refuge to be not less than 1-hour rated construction  | NFPA 7.2.12.3.4                           |
| Accessibility:  |   | IBC Chapter 11                            |
| General   | Building and Facility to be designed and constructed to be accessible according to IBC 2009 and ICC A117.1  | ICC/ANSI A117.1                           |
| Accessible Routes   | Required for building and all occupied floors per reference code - elevator provided  | IBC Section 1104 and A117.1 Chapter 4     |
| Interior Finishes:  |   | NFPA 10.2                                 |
| Classification Limitations                                | Assembly less than 300 occupancy load; Exits-A / Exit Access Corridors - A or B / Other Spaces - A or B   | NFPA Table 10.2.2                         |
| Furnishings and Decorations                               | Fabrics and films used for decorative purposes, all draperies, curtains and similar furnishings shall be in accordance with 10.3.1  | NFPA 12.7.3                               |
| Plumbing Requirements                                     |   | 2009 IBC / 2009 IPC                       |
| Occupancy (Building Gross)                                | Exist First and new Lower Level = 125 persons total per Occupant Load Factors (Meeting Room occupancy based on 15 SF/PP (table and chairs)  | IPC Sections 403                          |
| Water Closets / Sex                                       | 1   | IPC Table 403.1                           |
| Lavatories / Sex  | 1   | IPC Table 403.1                           |
| Bath/Shower   | 0   | IPC Table 403.1                           |
| Drinking Fountain   | 2 (equal to (1) High and (1) Low ADA fixture)   | IPC Table 403.1                           |
| Service Sink  | 1   | IPC Table 403.1                           |
| Separate Facilities                                       | Yes   | IPC Section 403.2                         |
| Location  | Permitted within one story of each other  | IPC Section 403.4.1                       |
| Signage   | Designated and Visible for each sex   | IPC Section 403.5                         |
| ADA Accessible  | Yes   | IPC Section 404 and A117.1 Chapter 6      |



# Philip Read Memorial Library

## Lower Level Renovation

June 10, 2011

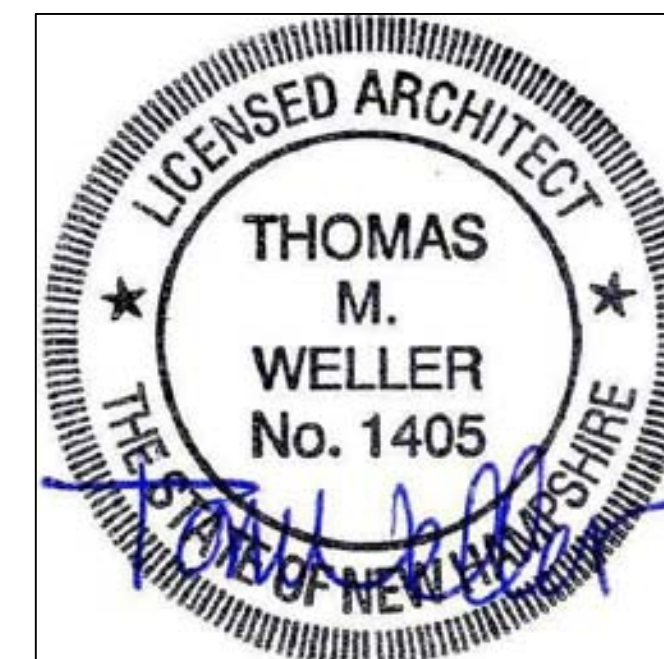
1088 Route 12A  
PLAINFIELD, NEW HAMPSHIRE

| ABBREVIATIONS | MEANING                          |
|---------------|----------------------------------|
| ADJ           | ADJACENT                         |
| AFF           | ABOVE FINISH FLOOR               |
| ALUM          | ALUMINUM                         |
| BO            | BY OWNER                         |
| CER           | CERAMIC                          |
| CJ            | CONTROL JOINT                    |
| CONC          | CONCRETE                         |
| CPT           | CARPET                           |
| EJ            | EXPANSION JOINT                  |
| EX or EXSTG   | EXISTING                         |
| EXP           | EXPANSION                        |
| FNDN or FNDT  | FOUNDATION                       |
| FR            | FIRE RATED                       |
| GWB           | GYPSUM WALL BOARD                |
| HM            | HOLLOW METAL                     |
| HOR           | HORIZONTAL or HORIZONTALLY       |
| INSUL         | INSULATION                       |
| JT            | JOINT                            |
| MI            | MIRROR IMAGE                     |
| MO            | MASONRY OPENING                  |
| MR            | MOISTURE RESISTANT               |
| MFL           | METAL                            |
| NAT           | NATURAL                          |
| NIC           | NOT IN CONTRACT                  |
| OC            | ON CENTER                        |
| OFCl          | OWNER FURNISH CONTRACTOR INSTALL |
| PTD           | PAINTED                          |
| REQ'D         | REQUIRED                         |
| SIM           | SIMILAR                          |
| STL           | STEEL                            |
| SV            | SHEET VINYL                      |
| TBD           | TO BE DETERMINED                 |
| TYP           | TYPICAL                          |
| VCT           | VINYL COMPOSITION TILE           |
| VERT          | VERTICAL or VERTICALLY           |
| VIF           | VERIFY IN FIELD                  |
| WP            | WATERPROOF                       |
| WPM           | WATERPROOF MEMBRANE              |
| WR            | WEATHER RESISTANT                |

### Specifications Sections

NOTE: REFERENCE THE FOLLOWING SPEC SECTIONS PROJECT MANUAL FOR PRM LIBRARY ADDITION PROJECT No. J915 / DATED AUGUST 7, 2002

|              |  |
|--------------|--|
| 02300        | Earthwork                                    |
| 02620        | Subdrainage                                  |
| 03300        | Cast-in-Place Concrete                       |
| 05500        | Metal Fabrications                           |
| 05521        | Pipe and Tube Railings                       |
| 06100        | Rough Carpentry                              |
| 06200        | Finish Carpentry                             |
| 07210        | Building Insulation                          |
| 07311        | Asphalt Shingles                             |
| 07620        | Sheet Metal Flashing and Trim                |
| 07920        | Joint Sealants                               |
| 08110        | Steel Doors and Frames                       |
| 08211        | Flush Wood Doors                             |
| 08212        | Slite & Rail Wood and Fiberglass Doors       |
| 08711        | Door Hardware (Scheduled by Naming Products) |
| 08800        | Glazing                                      |
| 09260        | Gypsum Board Assemblies                      |
| 09511        | Acoustical Panel Ceilings                    |
| 09545        | Laminate Flooring                            |
| 09651        | Resilient Floor Tile                         |
| 09653        | Resilient Wall Base and Accessories          |
| 09912        | Painting (Professional Line Products)        |
| 10431        | Signs  |
| 10520        | Fire-Protection Specialties                  |
| 10901        | Toilet and Bath Accessories                  |
| 1516010Basic | Mechanical and Electrical Requirements       |
| 15400        | Plumbing Specification                       |
| 15500        | Mechanical Specification                     |
| 16000        | Electrical Specification                     |



### DRAWING LIST

|      |                                    |          |
|------|------------------------------------|----------|
| C1   | SITE PLAN - NORTH STAIRWELL        | 06/10/11 |
| A1   | EXTERIOR ELEVATIONS - NORTH & WEST | 06/10/11 |
| A2   | LOWER LEVEL PLAN                   | 06/10/11 |
| A3   | LOWER LEVEL REFLECTED CEILING      | 06/10/11 |
| M1.1 | MECHANICAL PLANS                   | 05/05/11 |
| P1.1 | MECHANICAL PLANS                   | 05/05/11 |
| E0.0 | ELECTRICAL LEGEND & DETAILS        | 06/10/11 |
| E1.0 | POWER PLANS                        | 06/10/11 |
| E1.1 | ELECTRICAL PANEL SCHEDULES         | 06/10/11 |
| E2.0 | LIGHTING PLANS                     | 06/10/11 |
| E2.1 | LIGHTING CONTROLS                  | 06/10/11 |
| E3.0 | COMMUNICATIONS PLANS               | 06/10/11 |
| E4.0 | FIRE ALARM PLANS                   | 06/10/11 |

|                     |   |              |
|---------------------|---|--------------|
| ARCHITECT           | WELLER & MICHAL ARCHITECTS<br>POB 360 / 125 Church Street, Harrisville NH 03450 | 603-827-3840 |
| STRUCTURAL ENGINEER | Ted Fellows PE<br>COUNTY ROAD<br>WALPOLE, NH 03608                              | 603-756-4811 |
| PLUMBING ENGINEER   | WV Engineering<br>11 KING COURT<br>KEENE, NH 03431                              | 603-352-7007 |
| ELECTRICAL ENGINEER | WV Engineering Inc.<br>11 KING COURT<br>KEENE, NH 03431                         | 603-352-7007 |
| MECHANICAL ENGINEER | WV Engineering Inc.<br>11 KING COURT<br>KEENE, NH 03431                         | 603-352-7007 |

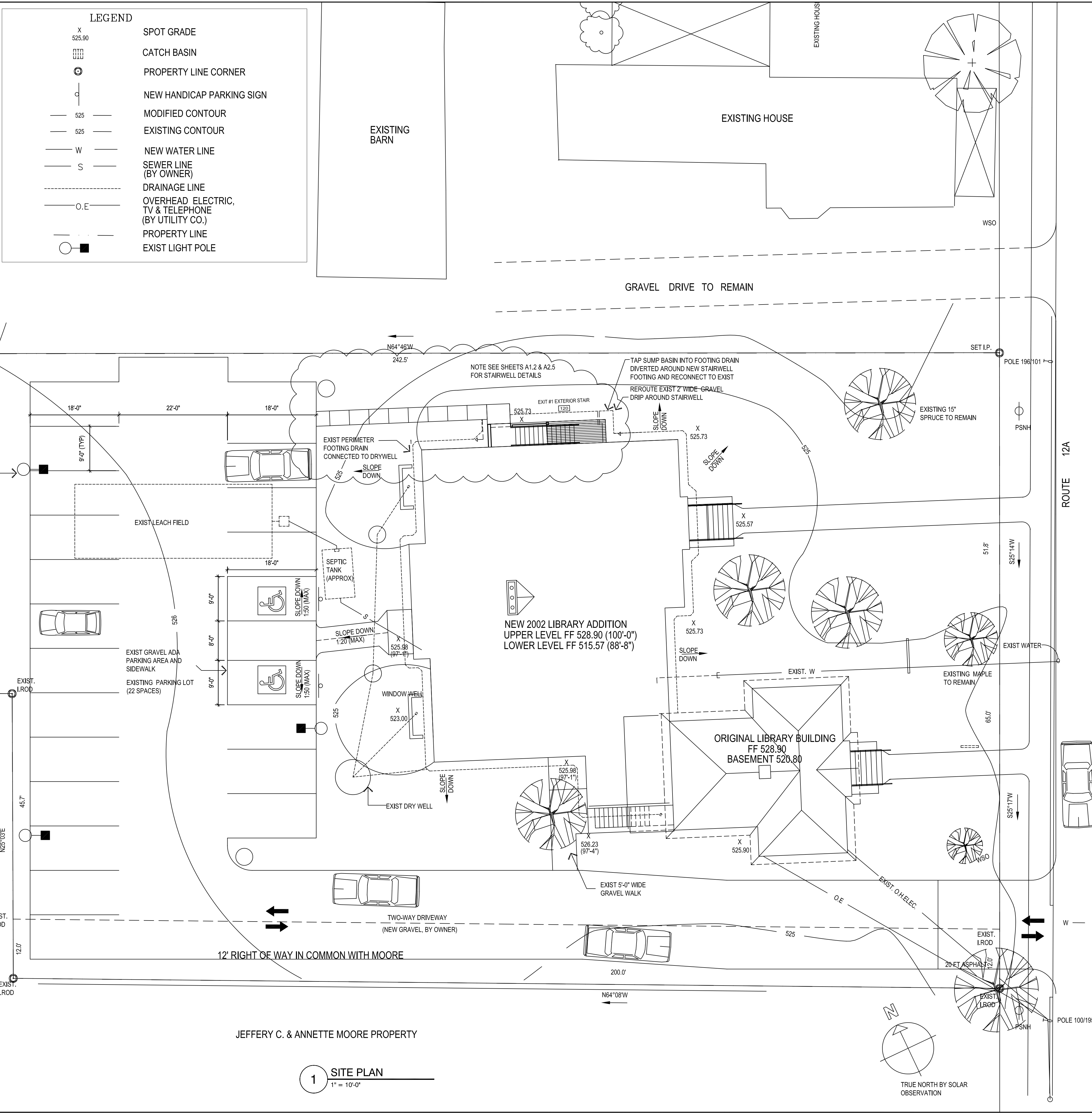
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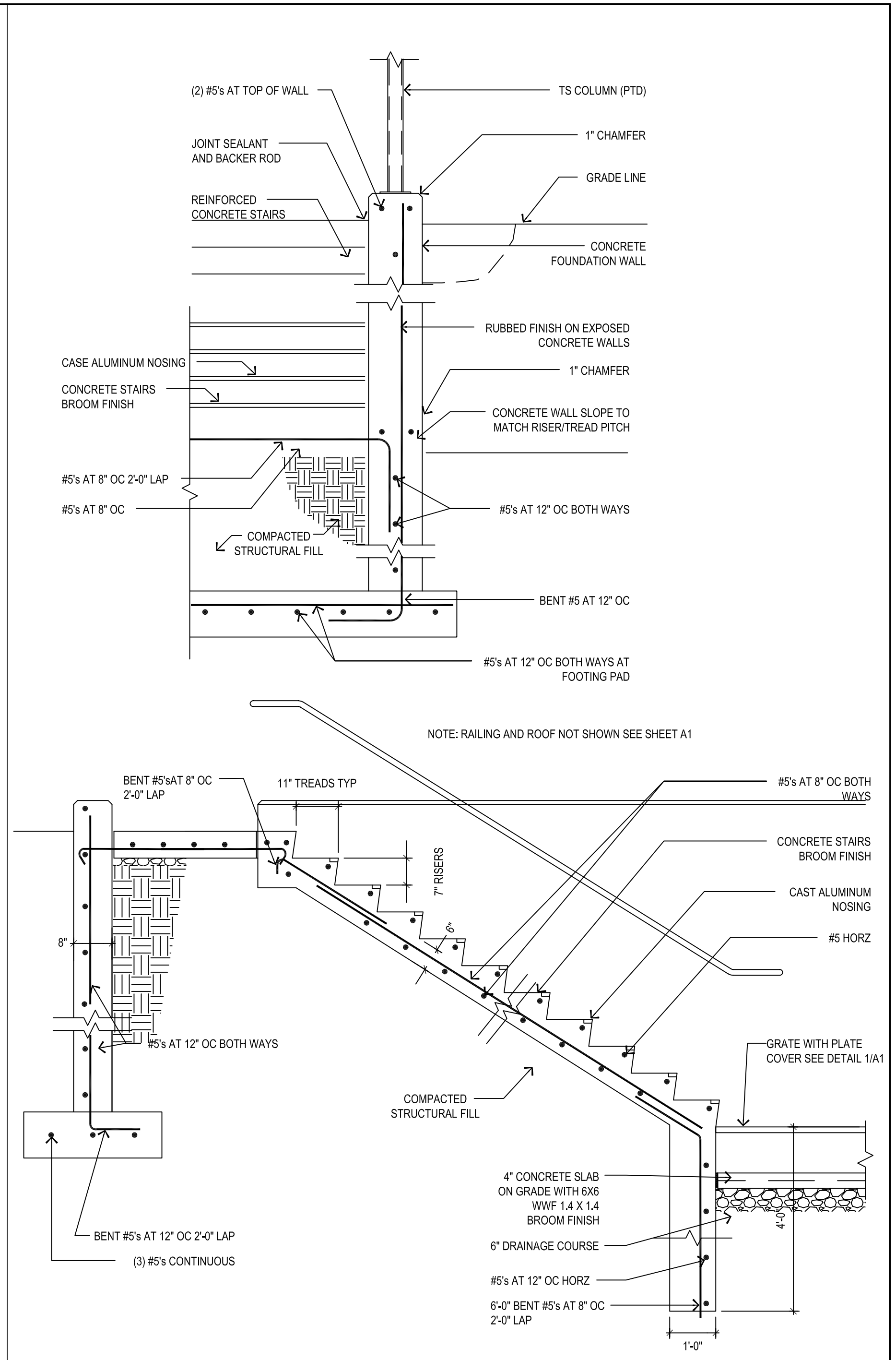
POB 260 / 25 Church Street  
Harrisville, New Hampshire 03450  
Phone : (603) 827-3840  
Fax : (none)  
WWW.WAPM.COM







**1 SITE PLAN**  
1" = 10'-0"



**2 EXTERIOR STAIR DETAILS**  
1/2" = 1'-0"

**GENERAL SITE NOTES:**

1. ALL SURVEY INFORMATION INCLUDING PROPERTY LINES, CONTOURS ETC HAS BEEN PROVIDED BY WAYNE McCUTCHEON ASSOCIATES, INC LOCATED IN CLAREMONT, NH.
2. LOCATION OF EXISTING UNDERGROUND UTILITIES HAS NOT BEEN VERIFIED AND HENCE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UNDERGROUND UTILITIES THE EXISTENCE OF WHICH ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION. CALL DIG-SAFE PRIOR TO ANY EXCAVATION.
3. COORDINATE STOCKPILING OF LOAM TO FACILITATE INSTALLATION OF SEPTIC TANK AND LEACH FIELD.
4. PROTECT ALL TREES AND SHRUBS INDICATED TO REMAIN FROM DRAINAGE.
5. PROTECT EXISTING SEPTIC SYSTEM AND LEACH FIELD FROM HEAVY MACHINERY
6. MAINTAIN EXISTING SURFACE DRAINAGE AT NORTH BOUNDARY.



222 West Street  
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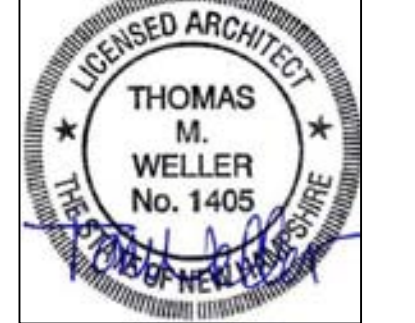
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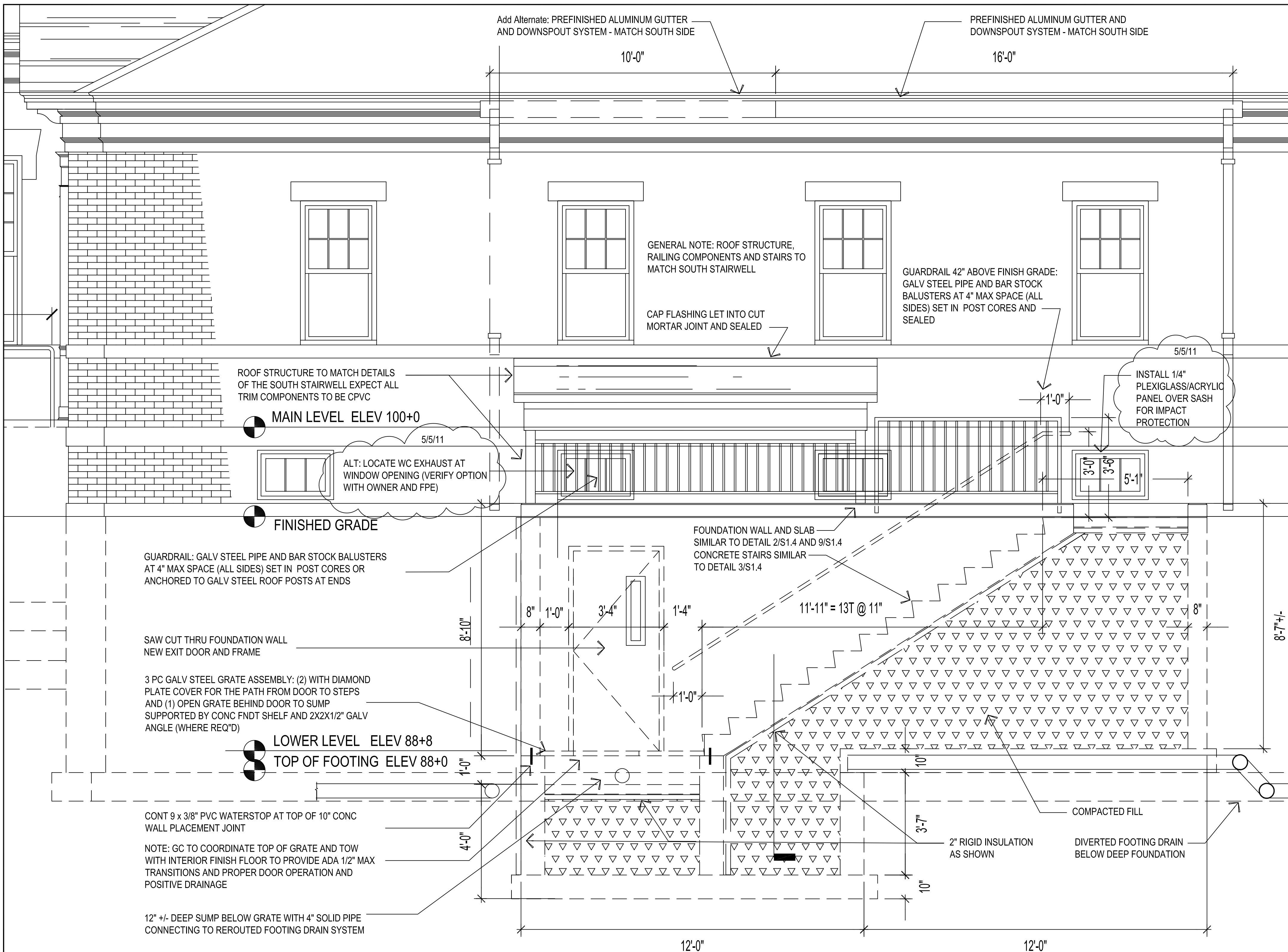
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**G1**

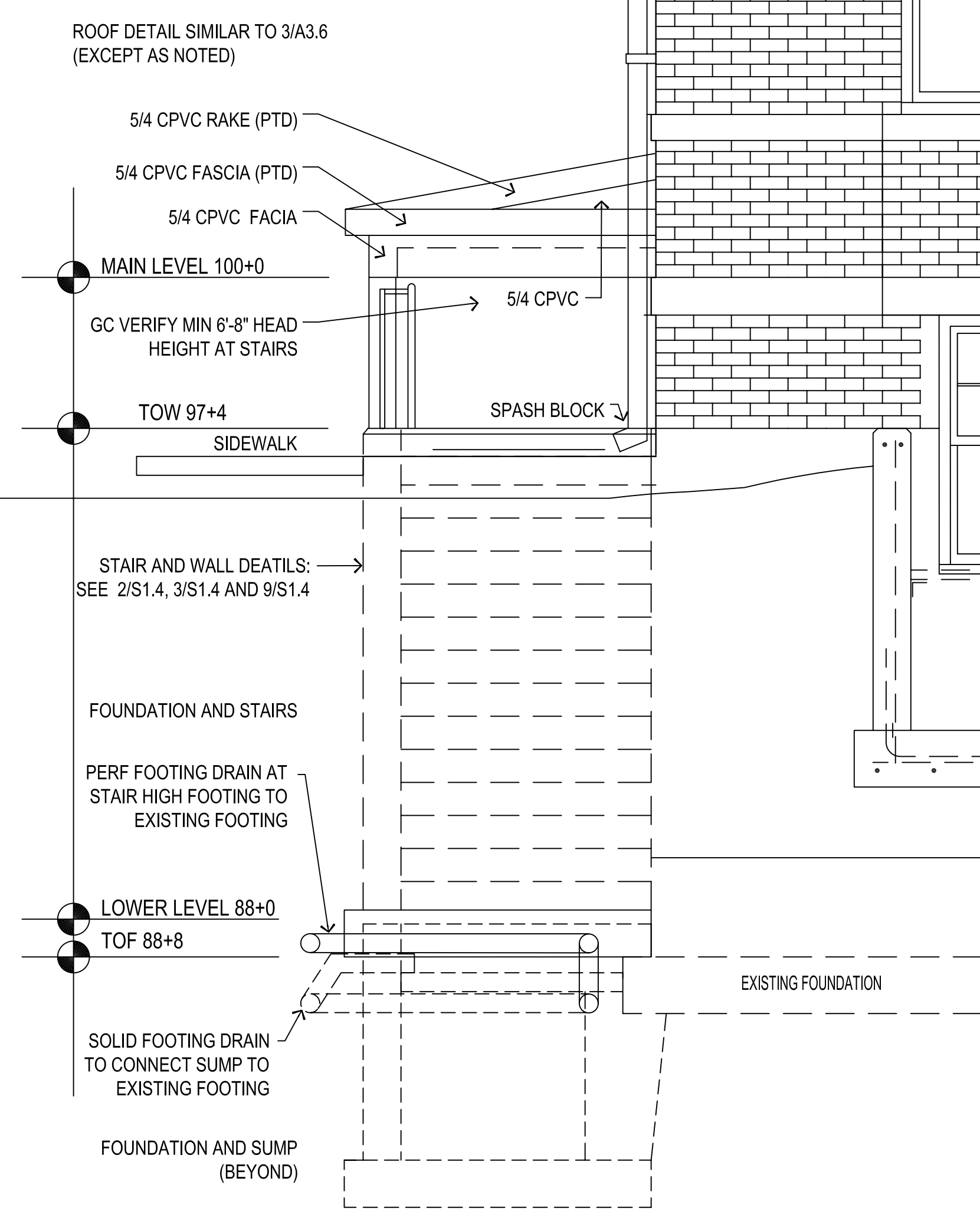
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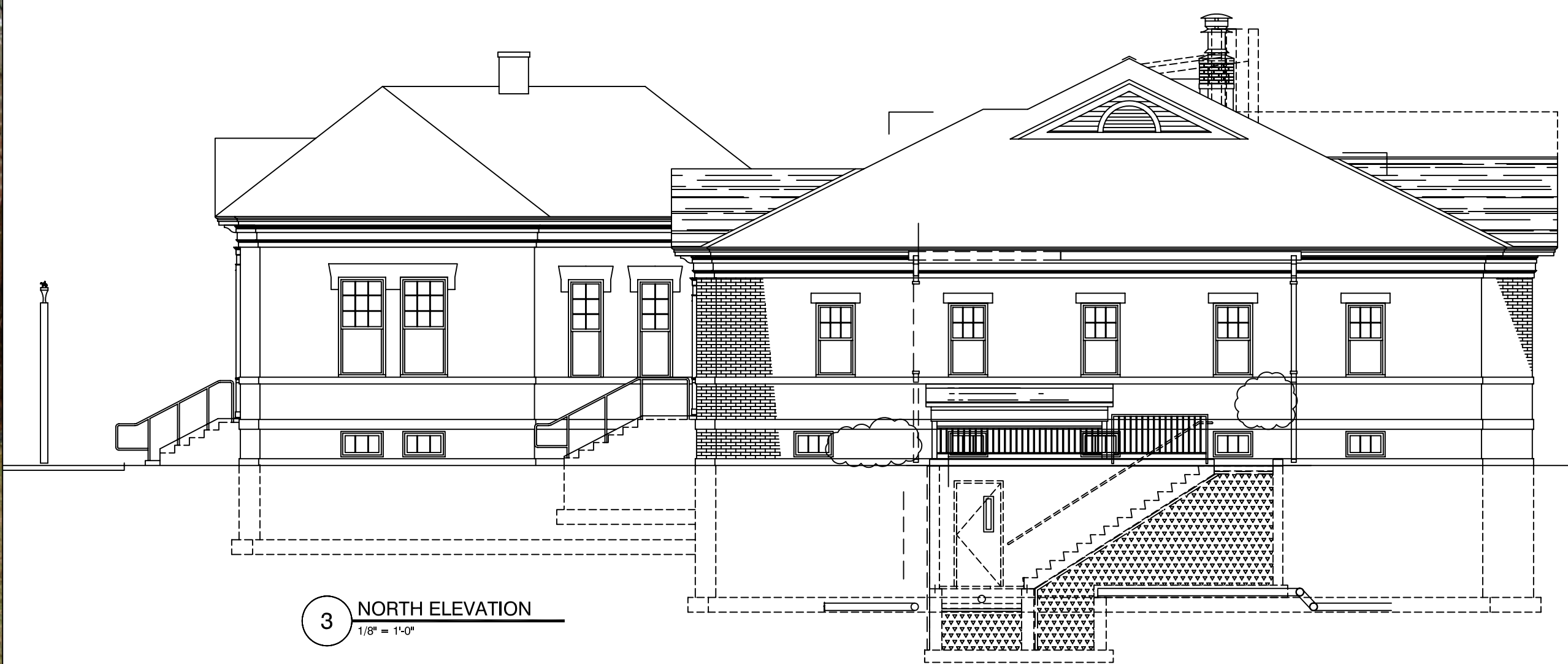




1 PARTIAL NORTH ELEVATION - EXIT STAIR  
1/4" = 1'-0"



3 NORTH ELEVATION  
1/8" = 1'-0"



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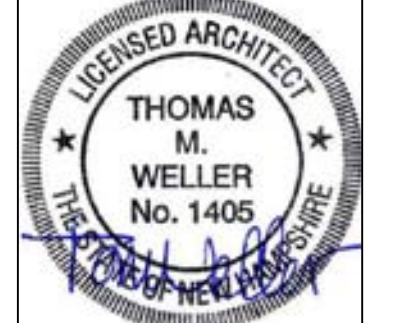
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**A1**

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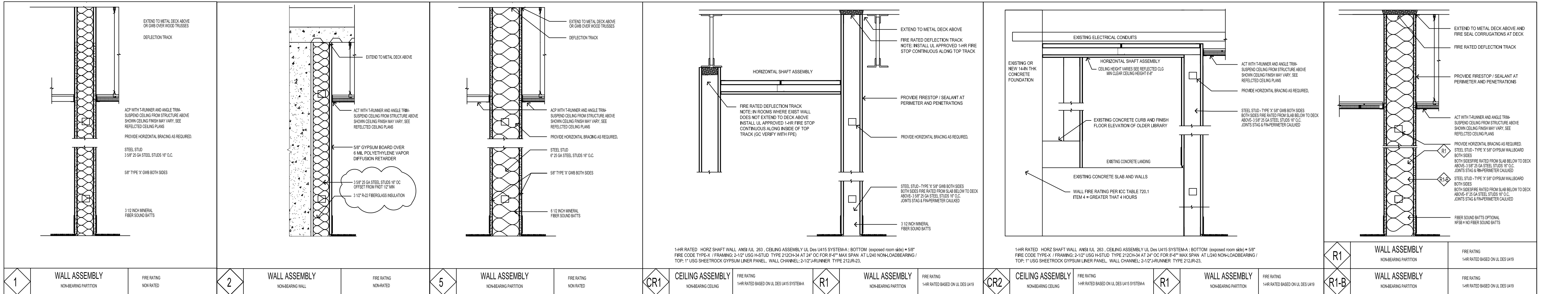
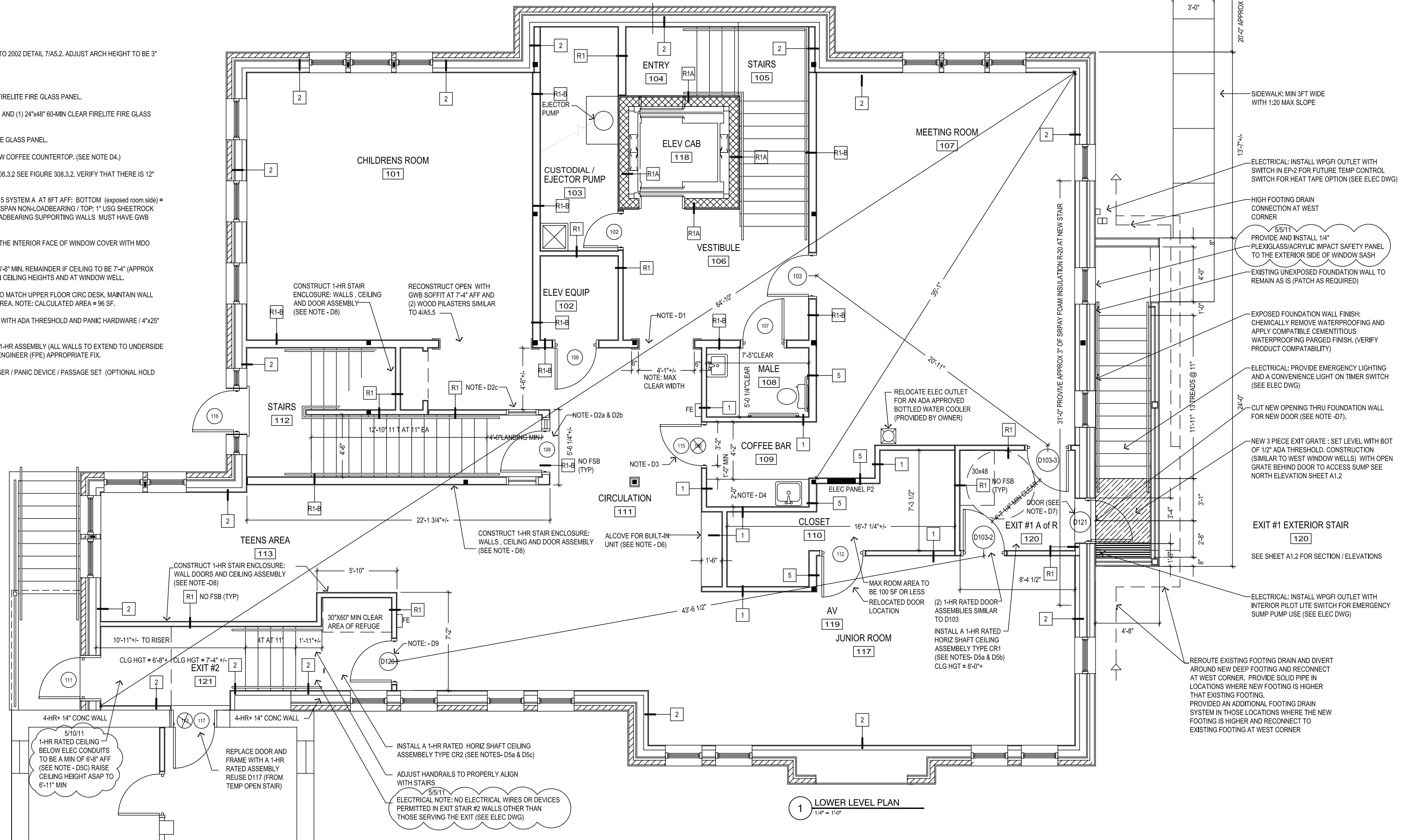


**GENERAL NOTES:**

- G1. CONTRACTOR TO VERIFY DIMENSIONAL CRITERIA TO COMPLY WITH ADA ICC/ANSI A 117.1 LATEST NH EDITION. FOR BATHROOM SEE 2002 ADA REQUIREMENTS 216.5.2.
- G2. ALL STRUCTURAL POSTS TO BE PROTECT BY 1HR RATED CONSTRUCTION ???

**DETAIL NOTES:**

- D1. RELOCATE EXIST DOOR ASSEMBLY AND FRAME THE OPENING WITH WOOD ARCH SIMILAR TO 2002 DETAIL 7A/5.2. ADJUST ARCH HEIGHT TO BE 3" LOWER THAN FINISH CEILING. KEYWAY IS OPTIONAL.
- D2a. RELOCATED RATED DOOR ASSEMBLY D108 INTO NEW RATED WALL ASSEMBLY.
- D2b1. ADD ALTERNATE: REPLACE DOOR WITH MATCHING DOOR AND (1) 24"x48" 60-MIN CLEAR FIRELITE FIRE GLASS PANEL.
- D2b2. ADD ALTERNATE: REPLACE DOOR WITH RATED DOOR MATCHING DOOR 004 (ELEV 2P-1G) AND (1) 24"x48" 60-MIN CLEAR FIRELITE FIRE GLASS PANEL.
- D2c. ADD ALTERNATE: PROVIDE AND INSTALL (2) 24"x48" HM FRAME 60-MIN CLEAR FIRELITE FIRE GLASS PANEL.
- D3. TO REVERSE SWING OF DOOR SUBSTITUTE D115. VERIFY PROPER ADA CLEARANCE TO NEW COFFEE COUNTERTOP. (SEE NOTE D4)
- D4. COUNTERTOP HEIGHT TO BE 34" MAX AND REACH WIDTH OF 24" MAX TO MEET ADA ANS1 308.3.2 SEE FIGURE 308.3.2. VERIFY THAT THERE IS 12" CLEAR FROM DOOR TO COUNTERTOP SEE ANS1 FIGURE 404.2.3.1 (b).
- D5a. INSTALL A 1-HR RATED HORIZ SHAFT WALL. ANS1 JUL 263. CEILING ASSEMBLY UL Des U415 SYSTEM A AT 8FT AFF: BOTTOM (exposed room side) = 5/8" FIRE CODE TYPE-X / FRAMING: 2-1/2" USG H-STUD TYPE 212CH-18 AT 24" OC FOR 6'-7" MAX SPAN NON-LOADBEARING / TOP: 1" USG SHEETROCK GYPSUM LINER PANEL. WALL CHANNEL: 2-1/2" J-RUNNER TYPE 212JR-23. NOTE RATED NON-LOADBEARING SUPPORTING WALLS MUST HAVE GWB CONTINUOUS TO TOP OF WALL. BEFORE INSTALLATION OF CEILING SYSTEM.
- D5b. BLOCK OFF EXISTING TRANSOM (HIGH CELLAR WINDOW ABOVE NEW RATED CEILING) TO THE INTERIOR FACE OF WINDOW COVER WITH MDO PAINTED FLAT BLACK. INSTALL 6-11" FG BATTS AND FINISH WALL WITH 5/8" GWB.
- D5c. CEILING HEIGHT VARIES IN EXIT #2. MIN. CEILING HEIGHT AT PORTION NEAR DOOR 111 = 6'-8" MIN. REMAINDER IF CEILING TO BE 7'-4" (APPROX HEIGHT OF DOOR 117 OPENING TO OLDER LIBRARY). MAINT THE 1-HR ASSEMBLY AT CHANGE IN CEILING HEIGHTS AND AT WINDOW WELL.
- D6. RECONSTRUCT WALL TO CREATE AN 18" DEEP ALCOVE FOR BUILT-IN COUNTERTOP UNIT TO MATCH UPPER FLOOR CIRC DESK. MAINTAIN WALL ABOVE FROM 7'-0" AFF UP TO DECK CONSTRUCT. NEW WALL IN CLOSET TO MEET 100 SF MAX AREA. NOTE: CALCULATED AREA = 96 SF.
- D7. NEW 3'0" X 7'0" GALVANIZED INSULATED STEEL DOOR AND HM FRAME / WEATHER-STRIPPED WITH ADA THRESHOLD AND PANIC HARDWARE / 4'x25" VISION PANEL.
- D8. FIELD VERIFY CONSTRUCTION OF EXISTING WALLS AND MODIFY AS REQUIRED TO MEET A 1-HR ASSEMBLY (ALL WALLS TO EXTEND TO UNDERSIDE OF DECK ABOVE). ALL NEW WORK TO BE 1-HR RATED. FIELD VERIFY WITH FIRE PROTECTION ENGINEER (FPE) APPROPRIATE FIX.
- D9. DOOR 120: DOOR AND FRAME 1-HR RATED ASSEMBLY TO MATCH D103. HARDWARE = CLOSER / PANIC DEVICE / PASSAGE SET (OPTIONAL HOLD OPEN DEVICE - VERIFY WITH OWNER)



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**LOWER LEVEL PLAN**

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**A2**

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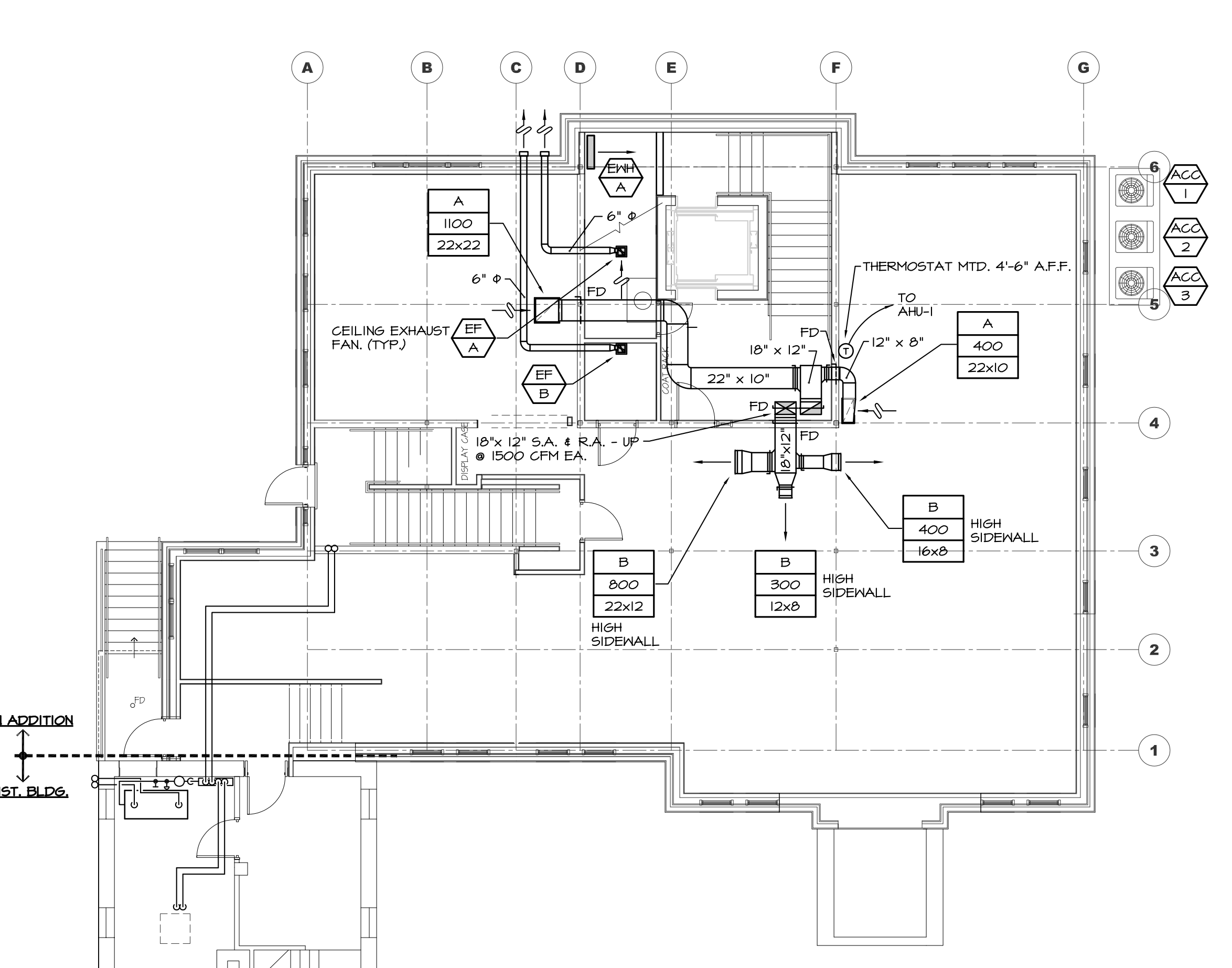
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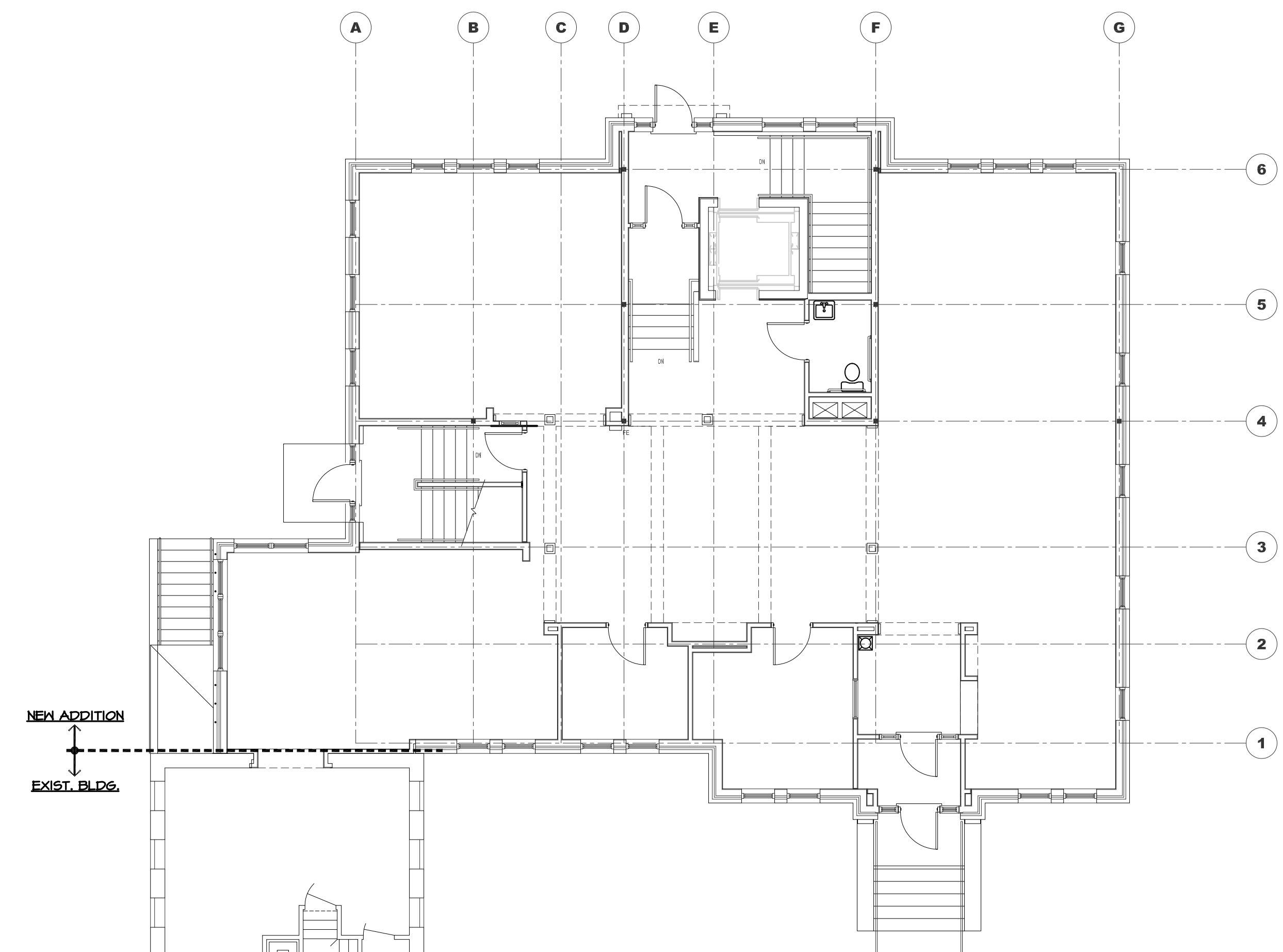
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MECHANICAL PLANS

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LOWER LEVEL MECHANICAL PLAN - EXISTING  
SCALE: 1/8" = 1'-0"

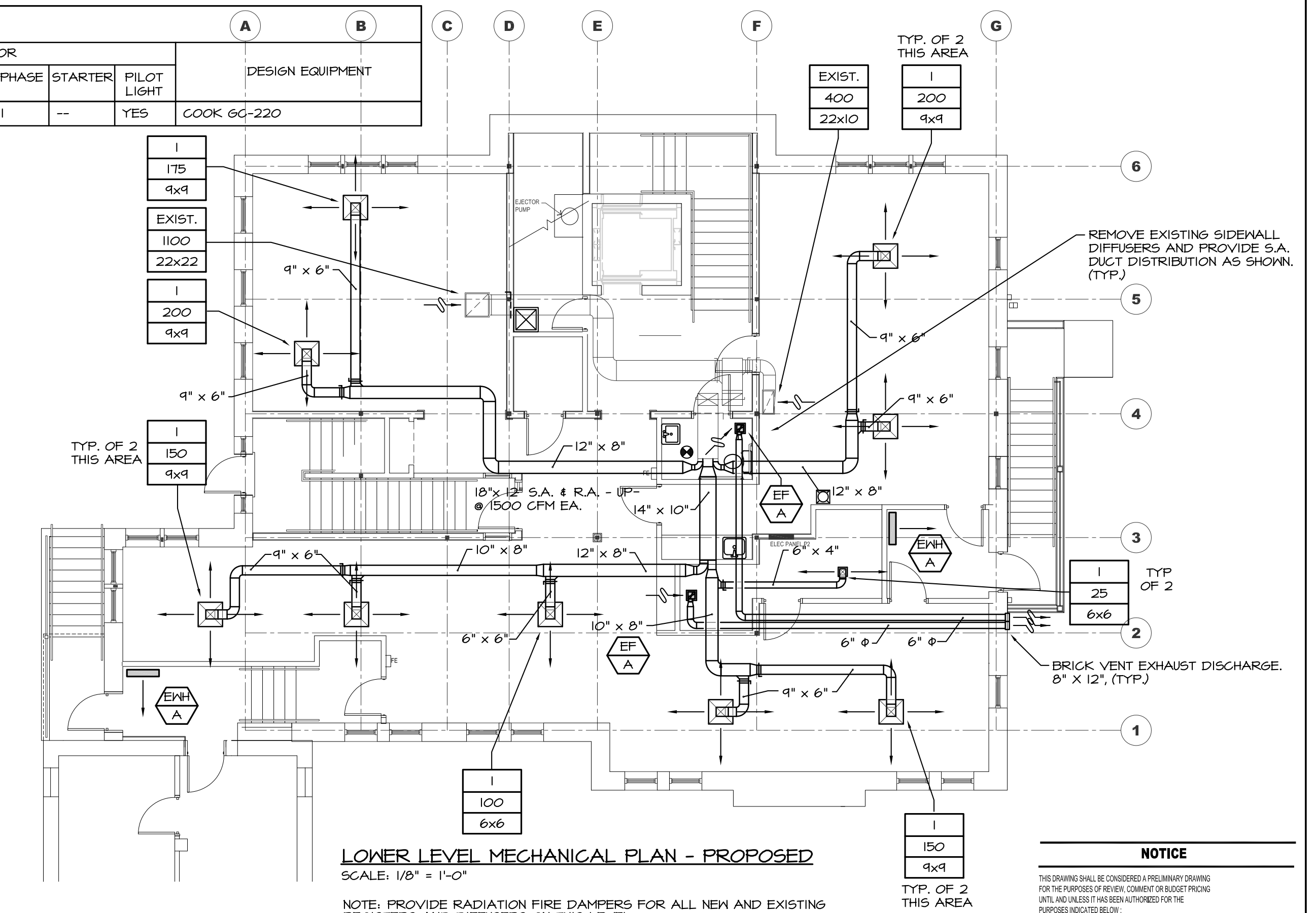


UPPER LEVEL MECHANICAL PLAN  
SCALE: 1/8" = 1'-0"

| UNIT HEATER SCHEDULE - ELECTRIC |          |            |      |     |      |     |       |       |           |           |           |     |       |       |                  |
|---------------------------------|----------|------------|------|-----|------|-----|-------|-------|-----------|-----------|-----------|-----|-------|-------|------------------|
| TYPE                            | LOCATION | SERVICE    | TYPE | CFM | MBH  | KNH | VOLTS | PHASE | E.A.T. °F | L.A.T. °F | FAN MOTOR |     |       |       | DESIGN EQUIPMENT |
|                                 |          |            |      |     |      |     |       |       |           |           | RPM       | HP  | VOLTS | PHASE |                  |
| EH-A                            | AS SHOWN | SPACE HEAT | WALL | 250 | 10.2 | 3.0 | 240   | 1     | 60        | 48        | 1550      | 1/8 | 120   | 1     | G-MARK CU435     |

| FAN SCHEDULE |          |          |         |     |      |          |            |         |                 |                   |       |                    |         |       |      |       |       |                  |     |             |
|--------------|----------|----------|---------|-----|------|----------|------------|---------|-----------------|-------------------|-------|--------------------|---------|-------|------|-------|-------|------------------|-----|-------------|
| UNIT NO.     | LOCATION | SERVICE  | TYPE    | CFM | S.P. | FAN DIA. | BLADE TYPE | FAN RPM | TIP SPEED (FFM) | OUTLET VEL. (FFM) | DRIVE | ROTATION DISCHARGE | CONTROL | MOTOR |      |       |       | DESIGN EQUIPMENT |     |             |
|              |          |          |         |     |      |          |            |         |                 |                   |       |                    |         | RPM   | HP   | VOLTS | PHASE |                  |     |             |
| EF-A         | AS SHOWN | AS SHOWN | CEILING | 75  | 0.2  | --       | CENT.      | 1050    | --              | --                | DIR.  | --                 | --      | 1080  | .009 | 120   | 1     | --               | YES | COOK GG-220 |

| HVAC SYMBOL LIST                     |   |    |             |
|--------------------------------------|---|----|-------------|
| ALL SYMBOLS ARE NOT NECESSARILY USED |   |    |             |
| —CWS—                                | CHILLED WATER SUPPLY                                      |    |             |
| —CHR—                                | CHILLED WATER RETURN                                      |    |             |
| —GS—                                 | GLYCOL SUPPLY   |    |             |
| —GR—                                 | GLYCOL RETURN   |    |             |
| —CS—                                 | CONDENSER WATER SUPPLY                                    |    |             |
| —CR—                                 | CONDENSER WATER RETURN                                    |    |             |
| —PC—                                 | PUMPED CONDENSATE   |    |             |
| —BF—                                 | BOILER FEED   |    |             |
| —BBD—                                | BOILER BLOW DOWN  |    |             |
| —D—                                  | DRAIN   |    |             |
| —ATV—                                | ATMOSPHERIC VENT  |    |             |
| —VAC—                                | VACUUM  |    |             |
| —RD—                                 | REFRIGERANT DISCHARGE                                     |    |             |
| —RL—                                 | REFRIGERANT LIQUID  |    |             |
| —RS—                                 | REFRIGERANT SUCTION                                       |    |             |
| —RHG—                                | REFRIGERANT HOT GAS                                       |    |             |
| —A—                                  | COMPRESSED AIR  |    |             |
| —G—                                  | GAS   |    |             |
| —FOS—                                | FUEL OIL SUPPLY   |    |             |
| —FOR—                                | FUEL OIL RETURN   |    |             |
| —FOV—                                | FUEL OIL VENT   |    |             |
| —FOF—                                | FUEL OIL FILL   |    |             |
| —FOG—                                | FUEL OIL GAUGE  |    |             |
| —FCW—                                | DOMESTIC COLD WATER (CW)                                  |    |             |
| —R—                                  | DIRECTION OF FLOW   |    |             |
| —CAP—                                | CAP OR PLUG   |    |             |
| —BCTA—                               | BOTTOM CONNECTION/TURN AWAY                               |    |             |
| —TCTA—                               | TOP CONNECTION/TURN TOWARDS                               |    |             |
| —U—                                  | UNION (OR FLANGE)   |    |             |
| —V—                                  | VALVE (SHUT OFF)  |    |             |
| —G—                                  | GLOBE VALVE   |    |             |
| —C—                                  | CHECK VALVE   |    |             |
| —CV—                                 | CONTROL VALVE (2-WAY)                                     |    |             |
| —PRV—                                | PRESSURE REDUCING VALVE                                   |    |             |
| —C3V—                                | CONTROL VALVE (3-WAY)                                     |    |             |
| —TDV—                                | TRIPLE DUTY VALVE   |    |             |
| —PRV—                                | PRESSURE REDUCING VALVE                                   |    |             |
| —BC—                                 | BALANCING COCK  |    |             |
| —FB—                                 | FLOW BALANCER   |    |             |
| —S—                                  | STRAINER  |    |             |
| —TT—                                 | THERMOSTATIC TRAP ASSEMBLY                                |    |             |
| —FT—                                 | FLOAT & THERMOSTATIC TRAP ASSEMBLY                        |    |             |
| —TS—                                 | TRANSITION-SQUARE TO ROUND SUPPLY DUCT SECTION            |    |             |
| —TR—                                 | RETURN OR EXHAUST DUCT SECTION                            |    |             |
| —RD—                                 | ROUND DUCT SECTION  |    |             |
| —FD—                                 | FIRE DAMPER   |    |             |
| —SD—                                 | SMOKE DAMPER  |    |             |
| —FSD—                                | COMBINATION FIRE AND SMOKE DAMPER                         |    |             |
| —BD—                                 | BACKDRAFT DAMPER  |    |             |
| —VD—                                 | VOLUME DAMPER   |    |             |
| —MD—                                 | MANUAL DAMPER   |    |             |
| —MOD—                                | MOTOR OPERATED DAMPER                                     |    |             |
| —T—                                  | THERMOSTAT  |    |             |
| —TE—                                 | ELECTRIC THERMOSTAT WITH MULTIPLE SET POINTS WITH A GUARD |    |             |
| —T2—                                 | TEMPERATURE SENSOR  |    |             |
| —T3—                                 | STATIC PRESSURE SENSOR                                    |    |             |
| —H—                                  | HUMIDISTAT  |    |             |
| —UGD—                                | UNDERGUT DOOR (1" BY THE G.C.)                            |    |             |
| —LD—                                 | LOUVERED DOOR, INDICATES SQ. FT. FREE AREA                |    |             |
| —A—                                  | AIR FLOW  |    |             |
| —ATL—                                | ACOUSTIC THERMAL LINING                                   |    |             |
| —SA—                                 | SOUND ATTENUATOR  |    |             |
| —W—                                  | WORK TO BE REMOVED  |    |             |
| —N—                                  | NEW TO EXISTING CONNECTION                                |    |             |
| —D—                                  | DIFFUSER W/ FLEX. DUCT CONNECTION (REG. SIMILAR)          |    |             |
| —R—                                  | DIFFUSER W/ RIGID DUCT CONNECTION (REG. SIMILAR)          |    |             |
| —TYPE                                | REGISTER, DIFFUSER, OR GRILLE DESIGNATION                 |    |             |
| —CFM                                 | DUCT SIZE SERVING REGISTER, DIFFUSER, OR GRILLE           |    |             |
| —SIZE                                | DUCT SIZE SERVING REGISTER, DIFFUSER, OR GRILLE           |    |             |
| —X BRANCH                            | DUCT SIZE SERVING REGISTER, DIFFUSER, OR GRILLE           |    |             |
| —CFM                                 | CUBIC FEET/MINUTE   | SA | SUPPLY AIR  |
| —FPM                                 | FEET/MINUTE   | RA | RETURN AIR  |
| —NTS                                 | NOT TO SCALE  | EA | EXHAUST AIR |
| —DSD                                 | DUCT SMOKE DETECTOR                                       | OA | OUTSIDE AIR |
| —MBH                                 | THOUSAND BTU/HOUR   |    |             |
| —(E)                                 | EXISTING  |    |             |



LOWER LEVEL MECHANICAL PLAN - PROPOSED  
SCALE: 1/8" = 1'-0"

NOTE: PROVIDE RADIATION FIRE DAMPERS FOR ALL NEW AND EXISTING REGISTERS AND DIFFUSERS ON THIS LEVEL.

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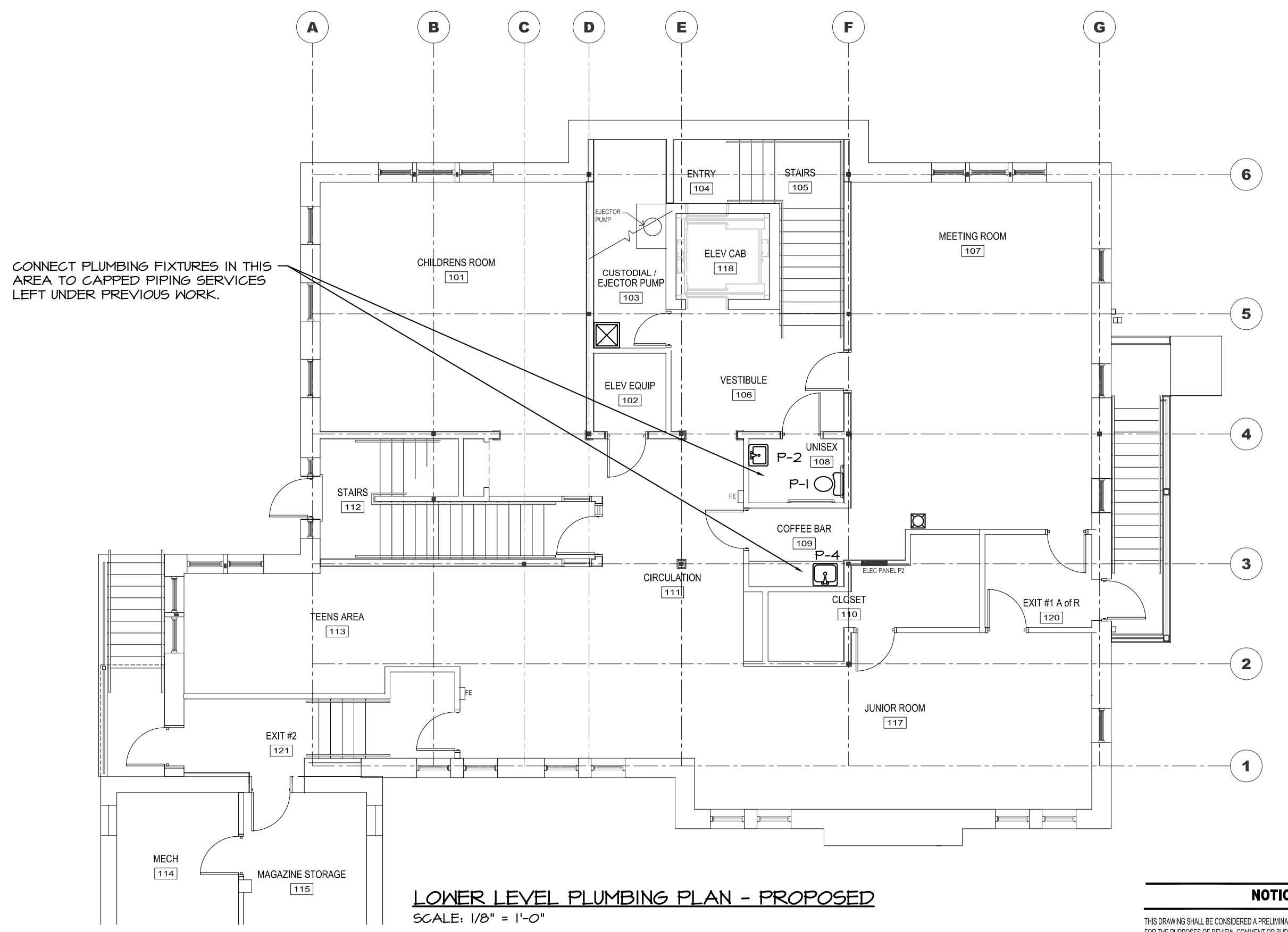
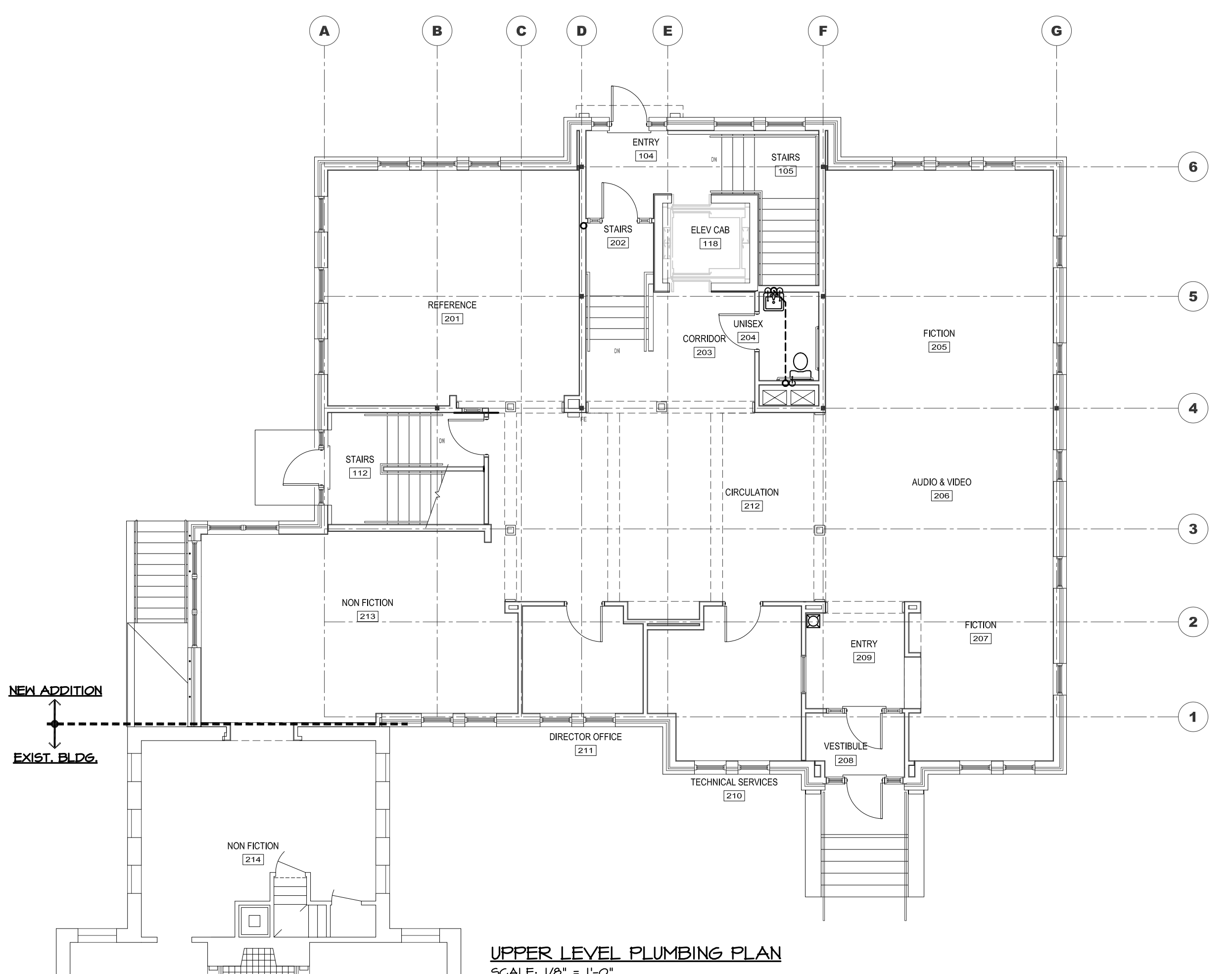
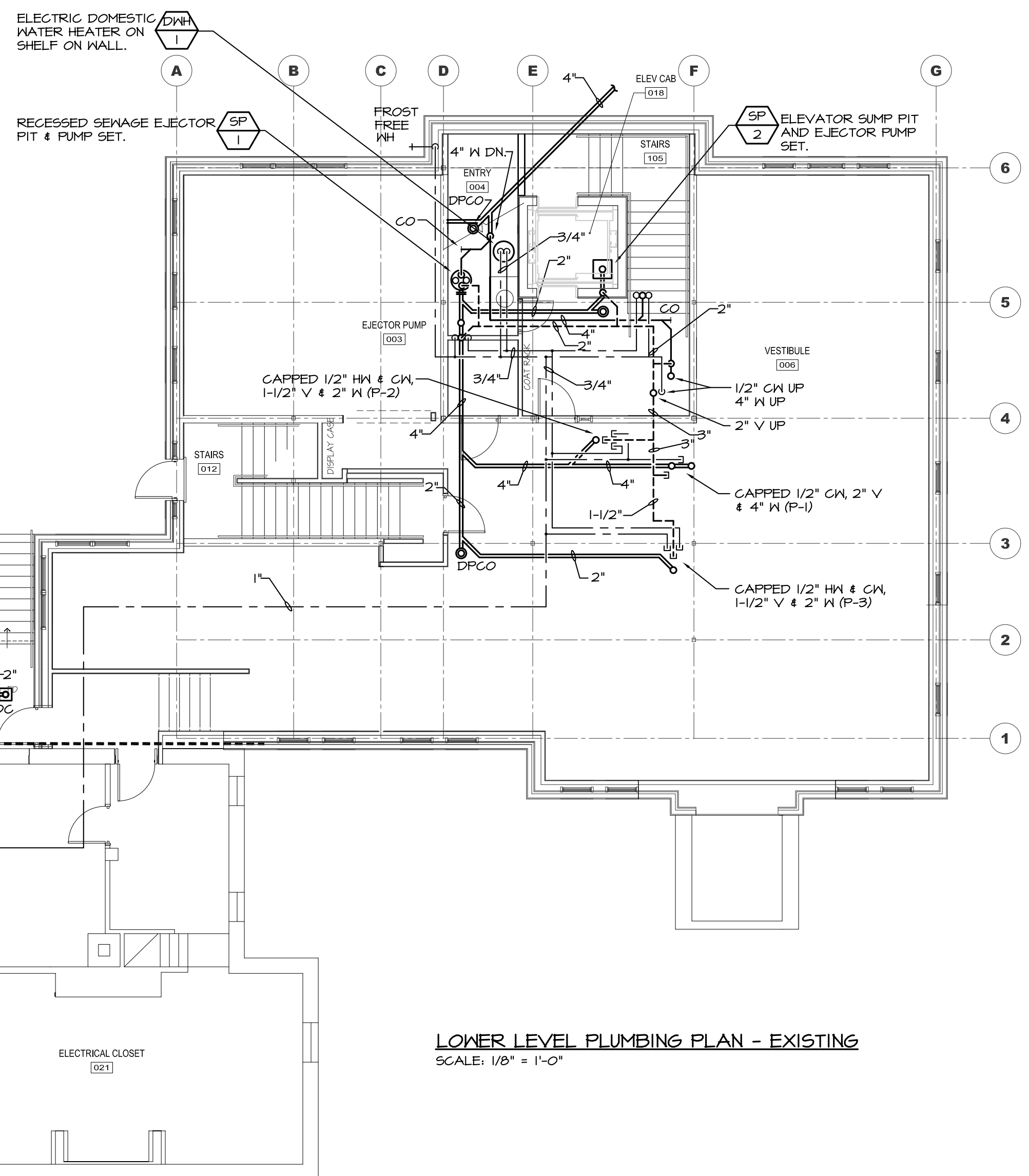
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PROJECT NO. J1307  
**M1.1**

PROJECT ARCHITECT  
Tom Weller

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| FIXTURE CONNECTION SCHEDULE |              |     |       |                     |       |      |         |                                      |
|-----------------------------|--------------|-----|-------|---------------------|-------|------|---------|--------------------------------------|
| SYM                         | FIXTURE      | SUP | TRP   | MINIMUM BRANCH SIZE |       |      | REMARKS |                                      |
|                             |              |     |       | WASTE               | VENT  | COLD |         | HOT                                  |
| P-1                         | WATER CLOSET | 1/2 | -     | 4                   | 2     | 1/2  | -       | FLOOR MTD. TANK, ADA TYPE            |
| P-2                         | LAVATORY     | 3/8 | 1-1/4 | 1-1/2               | 1-1/2 | 1/2  | 1/2     | WALL HUNG, ADA COMPLIANT             |
| P-3                         | JANITOR SINK | 1/2 | 2     | 3                   | 2     | 1/2  | 1/2     | FLOOR MTD, MOLDED STONE RECEPTOR     |
| P-4                         | SINK         | 3/8 | 1-1/4 | 1-1/2               | 1-1/2 | 1/2  | 1/2     | DROP IN FURN. BY OWNER, INSTLN BY PC |

| PLUMBING SYMBOL LIST                 |   |              |         |                                     |              |
|--------------------------------------|---|--------------|---------|-------------------------------------|--------------|
| ALL SYMBOLS ARE NOT NECESSARILY USED |   |              |         |                                     |              |
| SYMBOLS                              | DESCRIPTION                               | ABBREVIATION | SYMBOLS | DESCRIPTION                         | ABBREVIATION |
|                                      | SANITARY SOIL AND WASTE ABOVE GROUND      | S/W          |         | CLEANOUT                            | CO           |
|                                      | SANITARY SOIL AND WASTE BELOW GROUND/SLAB | S/W          |         | WALL CLEANOUT                       | WCO          |
|                                      | SANITARY VENT                             | V            |         | DECK PLATE CLEANOUT                 | DPCO         |
|                                      | VENT BELOW GROUND/SLAB                    | V            |         | FLOOR OR ROOF DRAIN                 | FD, RD       |
|                                      | COLD WATER                                | CW           |         | WATER HAMMER ARRESTER               | WHA          |
|                                      | HOT WATER                                 | HW           |         | NATURAL GAS                         | G            |
|                                      | HOT WATER RECIRC                          | HWR          |         | LIQUID PETROLEUM GAS                | LPG          |
|                                      | SHUTOFF VALVE (GATE)                      | GV           |         | PRESSURE & TEMPERATURE RELIEF VALVE | PTV          |
|                                      | SHUTOFF VALVE (BALL)                      | BV           |         | PRESSURE RELIEF VALVE               | RV           |
|                                      | CHECK VALVE                               | CV           |         | STRAINER                            |              |
|                                      | GLOBE VALVE                               | GLV          |         | UNION                               |              |
|                                      | FLOW (BALANCING VALVE)                    | FBV          |         | PRESSURE GAUGE                      |              |
|                                      | CONTROL VALVE                             | CLV          |         | THERMOMETER                         |              |
|                                      | PRESSURE REDUCING VALVE                   | PRV          |         | WATER HYDRANT                       | WH           |
|                                      | WATER METER                               | WM           |         | HOSE BIBB                           | HB           |
|                                      | PIPING DROP OR DOWN THROUGH FLOOR         | DROP, DN     |         | NEW TO EXISTING CONNECTION          |              |
|                                      | PIPING RISE OR UP THROUGH CEILING         | RISE, UP     |         |                                     |              |



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PROJECT ARCHITECT  
Tom Weller

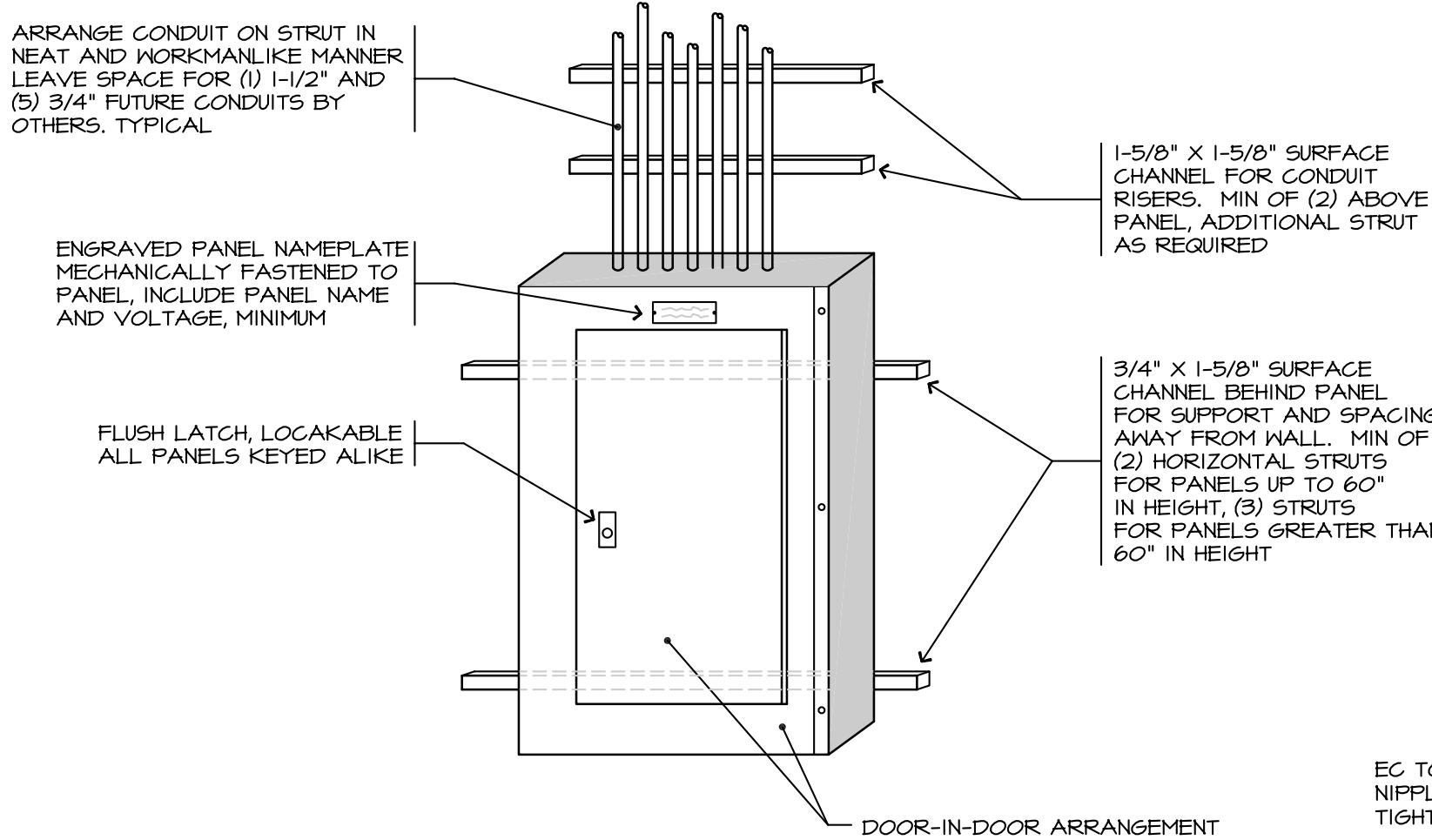
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**ELECTRICAL SYMBOL LIST**

- NOT ALL SYMBOLS ARE NECESSARILY USED
- RECESSED, FLUORESCENT FIXTURE
  - WALL BRACKET
  - CEILING FIXTURE
  - EMERGENCY BATTERY UNIT, NO ATTACHED HEADS
  - EMERGENCY BATTERY UNIT, ATTACHED HEADS (12V, 12W HALOGEN)
  - REMOTE EMERGENCY LIGHTING FIXTURE, DOUBLE HEAD, POWERED FROM REMOTE BATTERY UNIT (12V, 12W HALOGEN)
  - EXIT SIGN, SELF POWERED
  - EXIT SIGN, SELF POWERED, WALL MOUNTED
  - EMERGENCY LIGHTING UNIT, FLUSH MOUNTED, INTEGRAL BATTERY
  - EMERGENCY LIGHTING UNIT, FLUSH MOUNTED, REMOTE LIGHT UNIT
  - SINGLE POLE SWITCH 20 AMP, 125/277 VOLT TOGGLE
  - 3-WAY SWITCH 20 AMP, 125/277 VOLT TOGGLE
  - 4-WAY SWITCH 20 AMP, 125/277 VOLT TOGGLE
  - PILOT LIGHT SWITCH 20 AMP, 125 VOLT TOGGLE, FLUSH MOUNT SEE NOTES AT DEVICE FOR SPECIFIC MOUNTING INSTRUCTIONS
  - OIL BURNER SHUT OFF SWITCH
  - DIMMER SWITCH, 120 VOLT, SLIDE TYPE, 1000 WATT MIN
  - WALL MOUNTED TIME DELAY OFF SWITCH, 20 AMP, 120 VOLT
  - OIL BURNER FIRE-O-MATIC THERMAL CUTOFF SWITCH
  - DUPLEX RECEPTACLE 20 AMP 125 VOLT
  - TAMPER RESISTANT RECEPTACLE
  - CEILING MOUNTED RECEPTACLE, WHITE COLOR, FOR "SHOW WINDOW" USE, 120 VOLT, 20 AMP, WHITE PLATE
  - DUPLEX RECEPTACLE ABOVE COUNTER AND BACKSPASH, VERIFY FINAL MOUNTING HEIGHT ON SITE PRIOR TO ROUGH IN
  - ISOLATED GROUND DUPLEX RECEPTACLE
  - DUPLEX RECEPTACLE, SPLIT WIRED, TOP HALF SWITCH CONTROLLED
  - DOUBLE DUPLEX RECEPTACLE, INSTALL IN 2-GANG BOX UNDER ONE 2-GANG PLATE, WIRE TO COMMON CIRCUIT AS SHOWN
  - DUPLEX RECEPTACLE WITH WEATHERPROOF, GASKETED COVER
  - GROUND FAULT TYPE DUPLEX RECEPTACLE, 20 AMP, 125 VOLT, CLASS A WITH 20 AMP FEED THROUGH RATINGS, PLATE TO MATCH OTHER DEVICES INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS (MIN 3 1/2" WALL BOX)
  - INSTALL IN SEPARATE SINGLE GANG BOX WHERE SHOWN ON PLANS GROUND FAULT TYPE DUPLEX RECEPTACLE, WITH WEATHERPROOF COVER (MIN 3 1/2" WALL BOX)
  - FLOOR MOUNTED RECEPTACLE
  - SPECIAL 1Ø OR 3Ø OUTLET, 2Ø8 VOLT, CONFIRM AMPERAGE AND N.E.M.A. CONFIGURATION TO SUITE EQUIPMENT BEING SERVED
  - RANGE OUTLET, 50 AMP, 4 WIRE, FLUSH RECEPTACLE IN DEEP BOX WITH RAISED COVER
  - TELEPHONE SYSTEM NETWORK INTERFACE (DEMARCON) POINT FURNISHED AND INSTALLED BY LOCAL TELEPHONE SERVICE CO, QUANTITY AS REQUESTED BY OWNER TO SERVE NEEDS
  - TELEPHONE OUTLET, BOX AND DROP SEE DROP DETAIL AND PHONE RISER
  - TELEPHONE OUTLET, WALL OR PAY TYPE AS NOTED
  - CATV OUTLET BOX AND DROP, SEE DETAILS AND CATV RISER DIAGRAM
  - COMPUTER OUTLET BOX AND DROP, SEE DETAILS
  - WIRING HOME RUN TO PANEL AS NOTED, (2) #12, (1) #12 GND MIN, BACK TO 20 AMP, SINGLE POLE BREAKER UNLESS NOTED OTHERWISE
  - INDICATES (2) POWER CONDUCTORS WITH FULL SIZE GROUND
  - INDICATES (3) POWER CONDUCTORS WITH FULL SIZE GROUND
  - INDICATES (4) POWER CONDUCTORS WITH FULL SIZE GROUND
  - CABLE OR RACEWAY RUN CONCEALED IN WALLS OR CEILINGS SURFACE MOUNTED WHERE NOTED OR ALLOWED IN UTILITY OR UNFINISHED AREAS
  - UNDERSLAB RACEWAY AS NOTED
  - EMERGENCY LIGHTING LOW VOLTAGE (12 VDC) WIRING, RUN CONCEALED IN WALLS OR ABOVE CEILINGS. SURFACE MOUNTED ONLY IN UTILITY AREAS OR WHERE SPECIFICALLY ALLOWED
  - 120/208
  - SURF. ELECTRICAL PANELBOARD, VOLTAGE AND PHASE AS NOTED, REFER TO POWER RISER DIAGRAM AND PANEL SCHEDULES FOR DETAILS
  - FLUSH
  - TELEPHONE AND CATV BACKBOARD BY EC, SEE SYSTEMS RISER DIAGRAMS FOR ADDITIONAL DETAILS AND SPECIFICATIONS
  - FU DISCONNECT SWITCH BY EC, 250 VOLT, NEMA 1 (OR 3R AS NOTED), FUSIBLE, SIZE AS NOTED OR REQUIRED, DUAL ELEMENT, TIME DELAY FUSES SIZED, FURNISHED AND INSTALLED BY EC PER EQUIPMENT NAMEPLATE VALUES
  - TC TIMECLOCK
  - PC PHOTOCELL
  - FS FIRE SEAL AT RATED PARTITION
  - ALARM BELL
  - ALARM CORRIDOR LIGHT
  - TRANSFORMER, 120/24 VAC
  - MS MANUAL MOTOR STARTER
  - MAGNETIC OR COMBINATION MOTOR STARTER
  - EF EXHAUST FAN, FURNISHED WITH DUCTWORK AND INSTALLED BY MC, POWER WIRING BY EC AS SHOWN OR AS NOTED, FANS ARE 120 VOLT, FRACTIONAL HORSEPOWER, UNLESS SPECIFICALLY NOTED OTHERWISE
  - HP EQUIPMENT MOTOR, FURNISHED AND INSTALLED COMPLETE BY OTHERS AS NOTED, POWER WIRING AND DISCONNECT BY EC AS REQUIRED



**SURFACE MOUNTED PANELBOARD DETAIL**  
NOT TO SCALE

**FIRE ALARM SYMBOL LIST**

| SYMBOL | DESCRIPTION                   | MOUNTING                  |
|--------|-------------------------------|---------------------------|
| FACP   | FIRE ALARM CONTROL PANEL      | FLUSH, 5' TO TOP          |
| ANN    | FIRE ALARM REMOTE ANNUNCIATOR | FLUSH, 5' TO TOP          |
| SD     | SYSTEM SMOKE DETECTOR         | CEILING                   |
| RD     | RATE OF RISE HEAT DETECTOR    | CEILING                   |
| FD     | FIXED HEAT DETECTOR           | CEILING                   |
| FD200  | FIXED HEAT DETECTOR           | CEILING                   |
| RD200  | RATE OF RISE HEAT DETECTOR    | CEILING                   |
| MS     | MANUAL PULL STATION           | WALL, 42" AFF, SEMI FLUSH |
| HS     | HORN STROBE DEVICE            | WALL, 80" AFF, SEMI FLUSH |
| CS     | CANDELLA RATING AS SHOWN      |                           |
| SS     | STROBE ONLY DEVICE            | WALL, FLUSH, 80" AFF      |
| MS     | MIN HORN STROBE DEVICE        | WALL, FLUSH, 80" AFF      |
| FS     | FLOW SWITCH                   | BY SPRINKLER CONTRACTOR   |
| TS     | TAMPER SWITCH                 | BY SPRINKLER CONTRACTOR   |
| PS     | PRESSURE SWITCH               | BY SPRINKLER CONTRACTOR   |
| SD     | SPEAKER STROBE DEVICE         | WALL, 80" AFF, SEMI FLUSH |
| CS     | CANDELLA RATING AS SHOWN      |                           |

**ELECTRICAL ABBREVIATIONS**

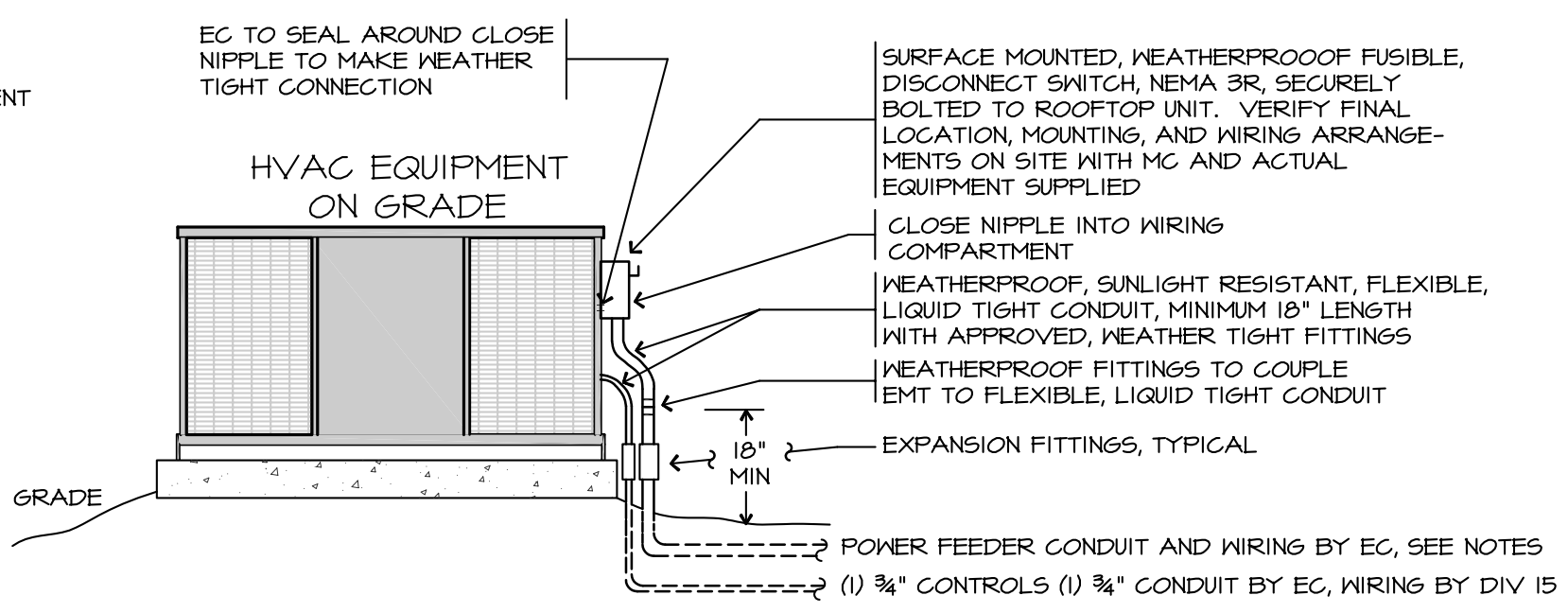
|      |   |
|------|---|
| AFF  | ABOVE FINISHED FLOOR                            |
| AFG  | ABOVE FINISHED GRADE                            |
| AL   | ALUMINUM  |
| BA   | BELL ATLANTIC                                   |
| BC   | BARE COPPER                                     |
| BKBD | BACKBOARD                                       |
| BLDG | BUILDING  |
| C    | CONDUIT   |
| CATV | CABLE TELEVISION                                |
| CSA  | CANADIAN STANDARDS                              |
| CU   | COPPER  |
| CVEC | CONN. VALLEY ELECTRIC CORP.                     |
| CVPS | CENTRAL VERMONT PUBLIC SERVICE                  |
| DET  | DETAIL  |
| DWG  | DRAWING   |
| EC   | ELECTRICAL CONTRACTOR                           |
| EMT  | ELECTRICAL METALLIC TUBING                      |
| FU   | FUSIBLE   |
| GC   | GENERAL CONTRACTOR                              |
| GF   | GROUND FAULT (PROTECTED)                        |
| GFI  | GROUND FAULT INTERRUPTER                        |
| HVAC | HEATING, VENTILATION AND AIR CONDITIONING       |
| MC   | MECHANICAL CONTRACTOR                           |
| MCB  | MAIN CIRCUIT BREAKER                            |
| MH   | MAGNETIC HOLDERS                                |
| MIN  | MINIMUM   |
| MLO  | MAIN LUG ONLY                                   |
| MTD  | MOUNTED   |
| NIC  | NOT IN CONTRACT                                 |
| NF   | NON FUSED                                       |
| PVC  | RIGID NON-METALLIC CONDUIT (POLYVINYL CHLORIDE) |
| RMC  | RIGID GALVANIZED METAL CONDUIT                  |
| SHT  | SHEET   |
| TELE | TELEPHONE                                       |
| TV   | TELEVISION                                      |
| UL   | UNDERWRITERS LABORATORY                         |
| UN   | UNLESS OTHERWISE NOTED                          |
| VBA  | VERIZON / BELL ATLANTIC WITH GROUND CONDUCTOR   |
| WF   | WEATHERPROOF                                    |

**LISTED EQUIPMENT NOTICE**

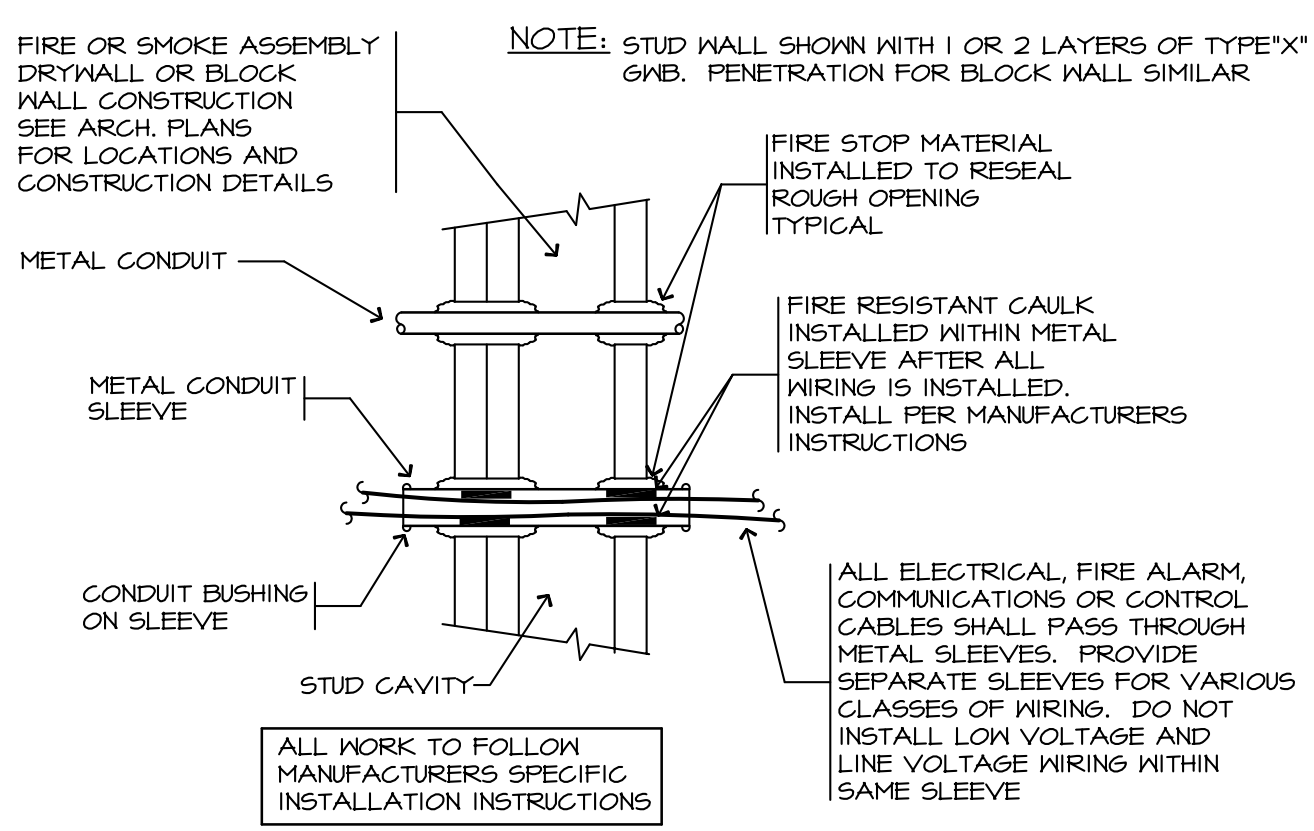
ALL EQUIPMENT NEEDING ELECTRICAL POWER IS INTENDED AND SPECIFIED TO BE "UL" OR "CSA" LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER AND ENGINEER OF ANY EQUIPMENT NOT SO LISTED AND LABELED AND SHALL NOT PROCEED WITH ANY WIRING OF SUCH EQUIPMENT OR DIRECTED IN WRITING BY ENGINEER. TYPICAL OF ALL DEVICES AND EQUIPMENT ON THIS PROJECT

**EXISTING EQUIPMENT SYMBOLS**

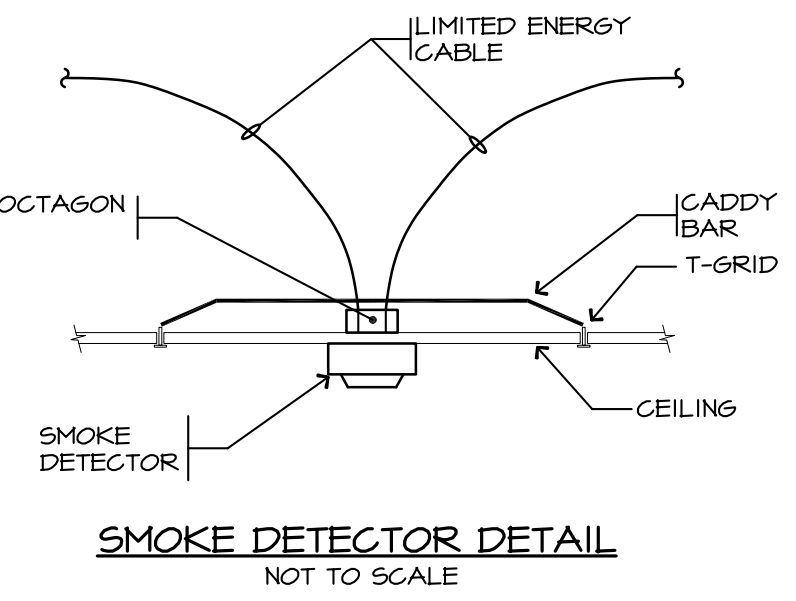
- EXISTING EQUIPMENT TO REMAIN
- EXISTING EQUIPMENT TO BE RELOCATED AS SHOWN
- NEW EQUIPMENT AT EXISTING LOCATION
- EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED OF



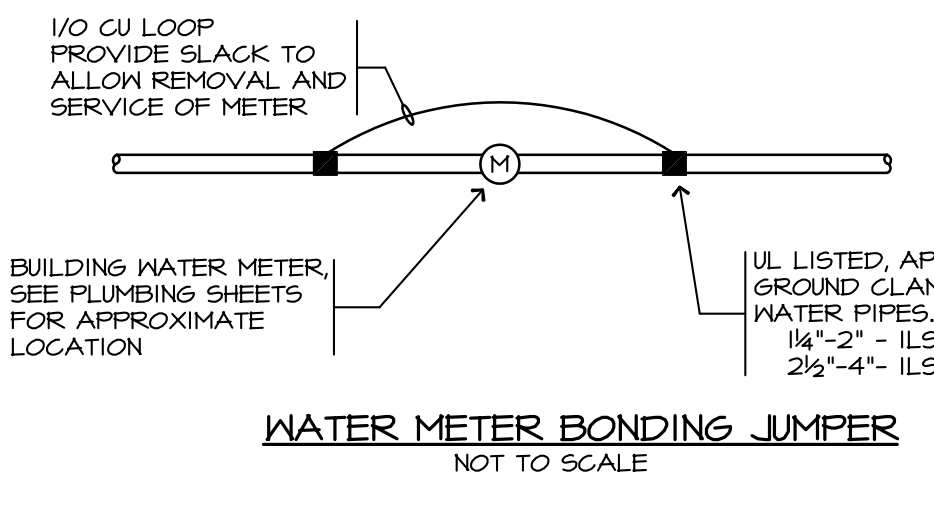
**PADMOUNTED UNIT WIRING INSTALLATION DETAIL**  
NOT TO SCALE



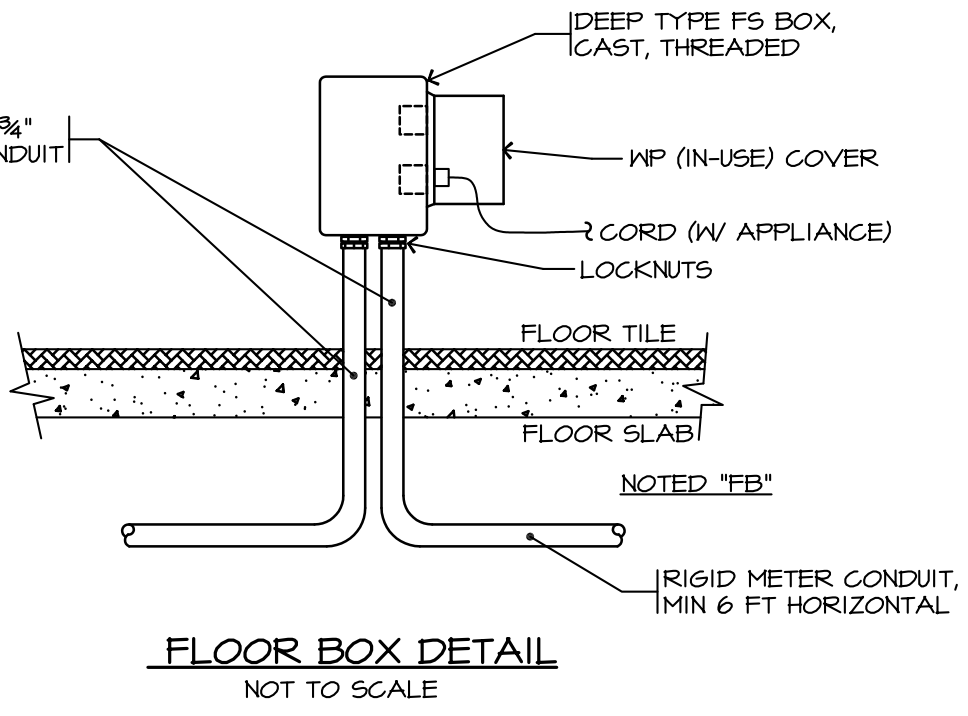
**WIRING THROUGH FIRE RATED ASSEMBLY - TYPICAL DETAIL**  
NOT TO SCALE



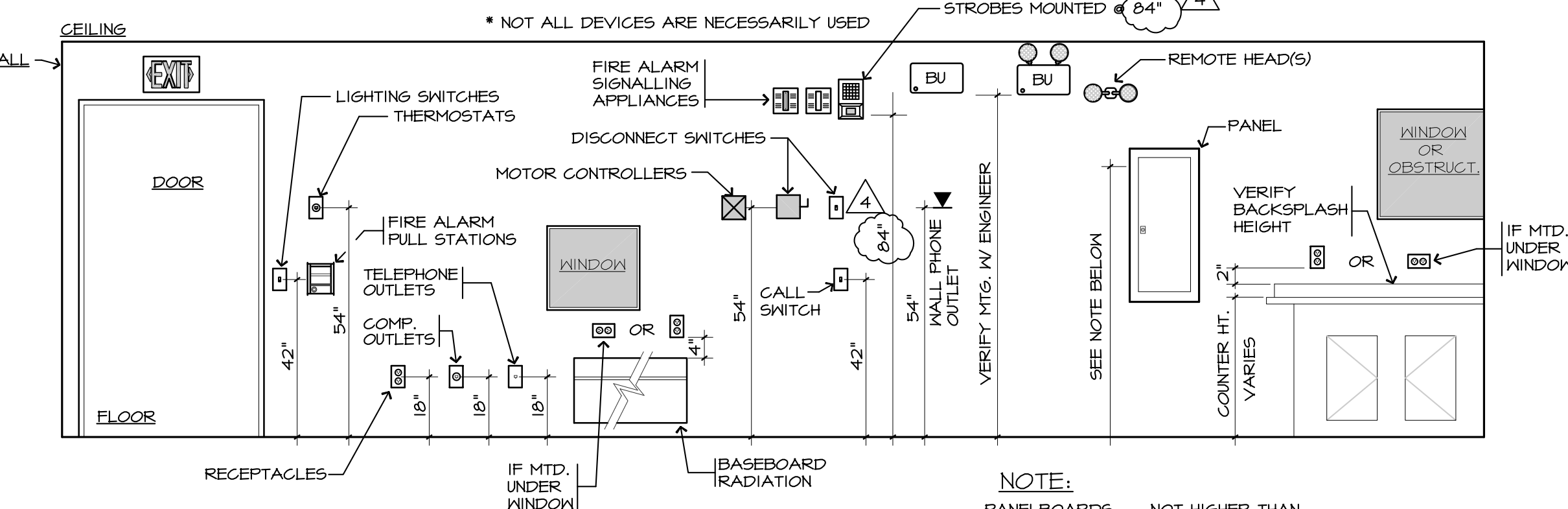
**SMOKE DETECTOR DETAIL**  
NOT TO SCALE



**WATER METER BONDING JUMPER**  
NOT TO SCALE

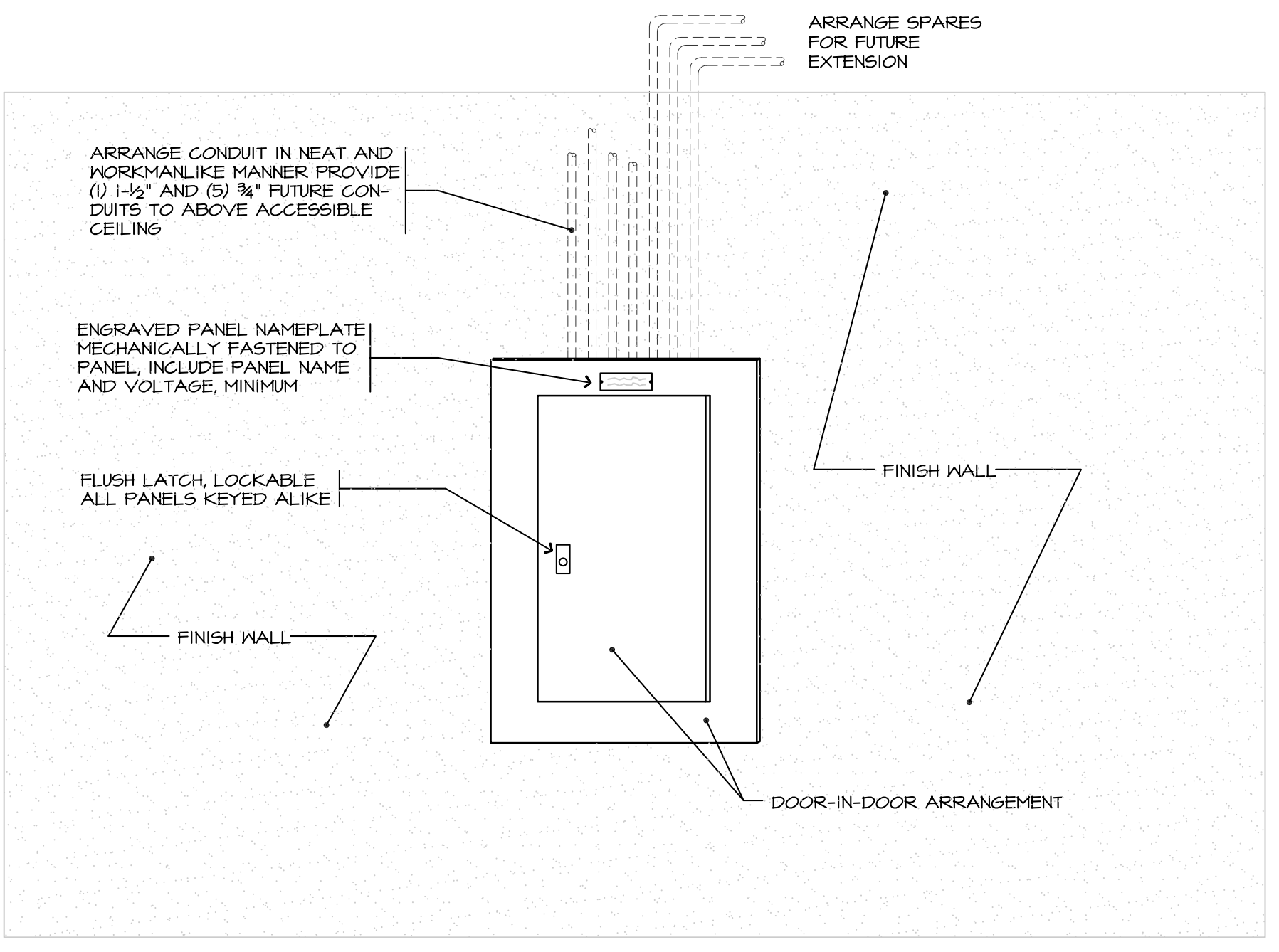


**FLOOR BOX DETAIL**  
NOT TO SCALE

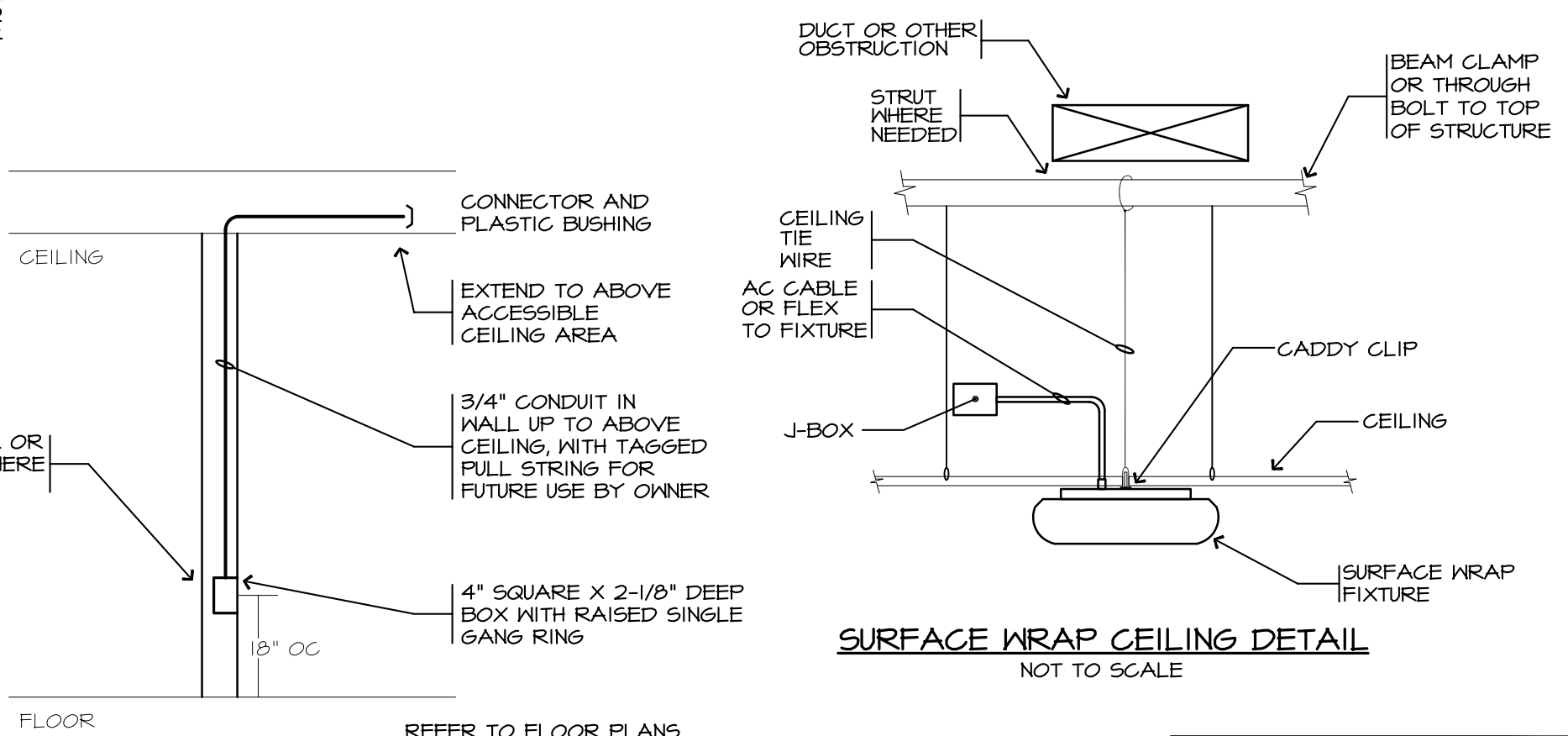


**TYPICAL DEVICE MOUNTING HEIGHTS ELEVATION**  
NOT TO SCALE

- NOTES**
- A. THE ABOVE MOUNTING HEIGHTS SHALL APPLY TO ALL DEVICES UNLESS NOTED OTHERWISE ON THE PLANS. ALL NOTED DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE FROM THE FINISHED FLOOR.
  - B. WHERE EXISTING OR SPECIAL CONDITIONS PREVENT THE INSTALLATION OF DEVICES AT THE ABOVE HEIGHTS, THE EC SHALL VERIFY HEIGHTS ON SITE WITH ARCHITECT.
  - C. ALL DEVICES IN FINISHED AREAS SHALL BE INSTALLED IN FLUSH DEVICE BOXES. NO SURFACE BOXES SHALL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.
  - D. EC SHALL VERIFY FINAL WORKBENCH, COUNTER, CABINET OR VANITY HEIGHTS INCLUDING BACKSPASH, ON SITE WITH GC PRIOR TO INSTALLATION OF BOXES. ABOVE COUNTER DEVICES NOTED BY (\*).
  - E. INSTALL RECEPTACLES HORIZONTALLY, 4" ABOVE BASEBOARD RADIATION. REFER TO M - SERIES (DIV. 15) SHEETS FOR RADIATION LAYOUT.



**FLUSH MOUNTED PANELBOARD DETAIL**  
NOT TO SCALE



**SURFACE WRAP CEILING DETAIL**  
NOT TO SCALE

**CATV/COMPUTER/TELEPHONE DROP DETAIL**  
NOT TO SCALE

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| DATE     | DISTRIBUTION        |

PROJECT NO. J197  
**E0.0**

PROJECT ARCHITECT  
Tom Weller





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POWER PLANS

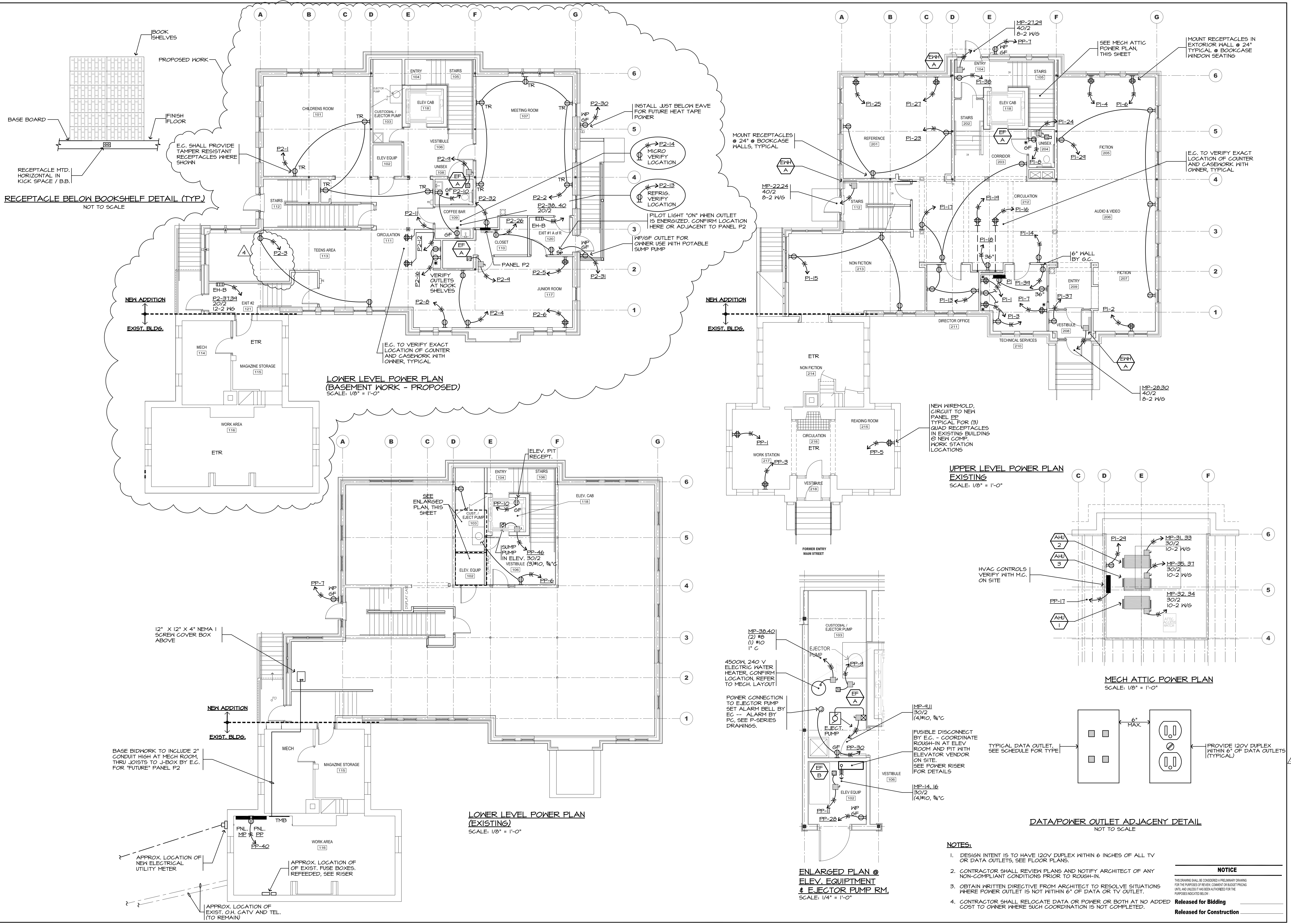
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|          |                     |
|----------|---------------------|
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| DATE     | DISTRIBUTION        |

PROJECT NO. J197

**E1.0**

PROJECT ARCHITECT  
Tom Weller



DRAWING FILE: S:\2010\10219\Drawings\10219E1.0.dwg PLOTTED: Jun 10 2011 10:23am BY: mddy



| PANEL: MP                           |       | VOLTAGE: 120/240 |               | PHASE: 1 |    | MAIN: A - MLO |   | MCB                      |  |
|-------------------------------------|-------|------------------|---------------|----------|----|---------------|---|--------------------------|--|
| TYPE: PANELBOARD                    |       | LOADCENTER       |               | PLUG IN  |    | BOLT ON       |   | FAULT RATING: 10,000 dlc |  |
| LOCATION: ELECT. CLOSET             |       | MOUNTING:        |               | SURFACE  |    |               |   |                          |  |
| DIRECTORY                           | TRIP  | Ø                | AØ            | BØ       | Ø  | TRIP          | DIRECTORY   |                          |  |
| PANEL PP                            | 125/2 | 1                | 1600<br>10000 |          | 2  | 125/2         | PANEL PI  |                          |  |
| ---                                 | ---   | 3                | 7600<br>10000 |          | 4  | ---           | ---   |                          |  |
| FUTURE PANEL                        | 125/2 | 5                | 5000<br>8000  |          | 6  | 125/2         | PANEL P2<br>(FUTURE - BASEMENT)                                       |                          |  |
| ---                                 | ---   | 7                | 5000<br>8000  |          | 8  | ---           | ---   |                          |  |
| SEWAGE EJECTOR PUMP                 | 30/2  | 9                | 1000<br>3000  |          | 10 | 10/2          | EXISTING LIBRARY<br>(FUSED PANEL)                                     |                          |  |
| ---                                 | ---   | 11               | 1000<br>3000  |          | 12 | ---           | ---   |                          |  |
| ACC-1 (FUTURE)<br>(CONDENSING UNIT) | 50/2  | 13               | 3174<br>5750  |          | 14 | 40/2          | ELEVATOR (10 HP)<br>CONFIRM/VERIFY HP (ST)                            |                          |  |
| ---                                 | ---   | 15               | 3174<br>5750  |          | 16 | ---           | ---   |                          |  |
| ACC-2 (FUTURE)<br>(CONDENSING UNIT) | 50/2  | 17               | 3174<br>5750  |          | 18 | Ø             | SHUNT TRIP<br>MECH.   |                          |  |
| ---                                 | ---   | 19               | 3174<br>800   |          | 20 | 20/1          | FUEL OIL SUPPLY<br>PUMP   |                          |  |
| ACC-3 (FUTURE)<br>(CONDENSING UNIT) | 50/2  | 21               | 3174<br>1500  |          | 22 | 40/2          | BNH-A   |                          |  |
| ---                                 | ---   | 23               | 3174<br>1500  |          | 24 | ---           | ---   |                          |  |
| SPARE                               | 20/1  | 25               | 500<br>500    |          | 26 | 20/1          | SPARE   |                          |  |
| BNH-A                               | 40/2  | 27               | 1500<br>1500  |          | 28 | 40/2          | BNH-A   |                          |  |
| ---                                 | ---   | 29               | 1500<br>1500  |          | 30 | ---           | ---   |                          |  |
| AIR HANDLING UNIT<br>AHU-2          | 30/2  | 31               | 1500<br>1500  |          | 32 | 30/2          | AIR HANDLING UNIT<br>AHU-1  |                          |  |
| ---                                 | ---   | 33               | 1500<br>1500  |          | 34 | ---           | ---   |                          |  |
| AIR HANDLING UNIT<br>AHU-3          | 30/2  | 35               | 1500<br>2250  |          | 36 | 20/1          | ELEVATOR SUMP<br>PUMP   |                          |  |
| ---                                 | ---   | 37               | 1500<br>2250  |          | 38 | 40/2          | WATER HEATER  |                          |  |
| RECEPTACLE MTD.<br>BELOW THIS PANEL | 20/1  | 39               | 500<br>2250   |          | 40 | ---           | ---   |                          |  |
| CONNECTED LOAD                      |       |                  | 54381         | 60387    |    |               | NOTES   |                          |  |
| DEMAND                              | 70%   |                  | 41510         | 42210    |    |               | (ST) SHUNT TRIP BREAKER<br>(GF) GROUND FAULT<br>(BL) BREAKER LOCK KIT |                          |  |
| TOTAL DEMAND LOAD                   |       |                  | 83940         |          |    |               |   |                          |  |

| PANEL: PP                           |      | VOLTAGE: 120/240 |            | PHASE: 1 |    | MAIN: 125 A - MLO |   | MCB                      |  |
|-------------------------------------|------|------------------|------------|----------|----|-------------------|---|--------------------------|--|
| TYPE: PANELBOARD                    |      | LOADCENTER       |            | PLUG IN  |    | BOLT ON           |   | FAULT RATING: 10,000 dlc |  |
| LOCATION: ELECT. CLOSET             |      | MOUNTING:        |            | SURFACE  |    |                   |   |                          |  |
| DIRECTORY                           | TRIP | Ø                | AØ         | BØ       | Ø  | TRIP              | DIRECTORY   |                          |  |
| WORK STATION OIT<br>RECEPTACLE      | 20/1 | 1                | 360<br>360 |          | 2  | 20/1              | WORK STATION OIT<br>RECEPTACLE                        |                          |  |
| WORK STATION OIT<br>RECEPTACLE      | 20/1 | 3                | 360<br>500 |          | 4  | 20/1              | AREA OF REFUGE (BL)                                   |                          |  |
| (BL) FACP                           | 20/1 | 5                | 800<br>500 |          | 6  | ---               | ---   |                          |  |
| EXTERIOR RECEPTACLES                | 20/1 | 7                | 500<br>500 |          | 8  | ---               | VESTIBULE<br>RECEPTACLES                              |                          |  |
| EXHAUST FAN<br>EF-A                 | 20/1 | 9                | 500<br>500 |          | 10 | 20/1              | ELEVATOR PIT<br>RECEPTACLE                            |                          |  |
| EXHAUST FAN<br>EF-B                 | 20/1 | 11               | 500<br>500 |          | 12 | 20/1              | ELEVATOR PIT<br>LIGHTING                              |                          |  |
| BASEMENT LIGHTING                   | 20/1 | 13               | 500<br>500 |          | 14 | 20/1              | BASEMENT/STAIR<br>LIGHTING                            |                          |  |
| SPARE                               | 20/1 | 15               | 500<br>500 |          | 16 | 20/1              | SPARE   |                          |  |
| HVAC CONTROLS                       | 20/1 | 17               | 750<br>500 |          | 18 | 20/1              | VEST. ELEV. EQUIP., SEN. EJECT.<br>CUSTODIAL LIGHTING |                          |  |
| HVAC CONTROLS                       | 20/1 | 19               | 750<br>500 |          | 20 | 20/1              | SPARE   |                          |  |
| SPARE                               | 20/1 | 21               | 500<br>500 |          | 22 | 20/1              | SPARE   |                          |  |
| SPARE                               | 20/1 | 23               | 500<br>500 |          | 24 | 20/1              | SPARE   |                          |  |
| SPARE                               | 20/1 | 25               | 500<br>500 |          | 26 | 20/1              | SPARE   |                          |  |
| ELEVATOR PIT<br>RECEPTACLE          | 20/1 | 27               | 360<br>540 |          | 28 | 20/1              | ELEVATOR RM.<br>RECEPTACLES                           |                          |  |
| ELEVATOR<br>CONTROLS                | 20/1 | 29               | 650<br>500 |          | 30 | 20/1              | PUMP ROOM<br>RECEPTACLE                               |                          |  |
| ELEVATOR<br>CAB LIGHTS              | 20/1 | 31               | 650<br>500 |          | 32 | 20/1              | SPARE   |                          |  |
| SITE LIGHTING                       | 20/1 | 33               | 800<br>800 |          | 34 | 20/1              | SITE LIGHTING   |                          |  |
| SITE LIGHTING                       | 20/1 | 35               | 800<br>800 |          | 36 | 20/1              | SITE LIGHTING   |                          |  |
| CATV BACKBOARD<br>RECEPTACLE        | 20/1 | 37               | 700<br>700 |          | 38 | 20/1              | TELEPHONE BACKBOARD<br>RECEPTACLE                     |                          |  |
| RECEPTACLE MTD.<br>BELOW THIS PANEL | 20/1 | 39               | 180<br>200 |          | 40 | 20/1              | EXISTING ATTIC<br>LIGHTING                            |                          |  |
| CONNECTED LOAD                      |      |                  | 11420      | 10240    |    |                   | NOTES   |                          |  |
| DEMAND                              | 70%  |                  | 7994       | 7168     |    |                   | (GF) GROUND FAULT<br>(BL) BREAKER LOCK KIT            |                          |  |
| TOTAL DEMAND LOAD                   |      |                  | 15162      |          |    |                   |   |                          |  |

| PANEL: PI                                     |      | VOLTAGE: 120/240 |              | PHASE: 1 |    | MAIN: 125 A - MLO |  | MCB                      |  |
|---|------|------------------|--------------|----------|----|-------------------|--|--------------------------|--|
| TYPE: PANELBOARD                              |      | LOADCENTER       |              | PLUG IN  |    | BOLT ON           |  | FAULT RATING: 10,000 dlc |  |
| LOCATION: ELECT. CLOSET                       |      | MOUNTING:        |              | FLUSH    |    |                   |  |                          |  |
| DIRECTORY                                     | TRIP | Ø                | AØ           | BØ       | Ø  | TRIP              | DIRECTORY  |                          |  |
| TECH. SERVICES 210 WORK<br>STATION RECEPTACLE | 20/1 | 1                | 360<br>900   |          | 2  | 20/1              | FICTION 201/AUDIO VIDEO<br>206 RECEPTACLES             |                          |  |
| TECH. SERVICES 210 WORK<br>STATION RECEPTACLE | 20/1 | 3                | 360<br>360   |          | 4  | 20/1              | FICTION 205<br>RECEPTACLE                              |                          |  |
| TECH. SERVICES 210 WORK<br>STATION RECEPTACLE | 20/1 | 5                | 720<br>360   |          | 6  | 20/1              | FICTION 205<br>RECEPTACLE                              |                          |  |
| TECH. SERVICES 210 WORK<br>STATION RECEPTACLE | 20/1 | 7                | 360<br>180   |          | 8  | 20/1              | UNI-SEX 204<br>RECEPTACLE                              |                          |  |
| SPARE   | 20/1 | 9                | 500<br>500   |          | 10 | 20/1              | SPARE  |                          |  |
| SPARE   | 20/1 | 11               | 500<br>500   |          | 12 | 20/1              | SPARE  |                          |  |
| DIRECTOR OFFICE 211<br>RECEPTACLES            | 20/1 | 13               | 540<br>1000  |          | 14 | 20/1              | COPIER   |                          |  |
| NON-FICTION 015<br>RECEPTACLES                | 20/1 | 15               | 540<br>360   |          | 16 | 20/1              | CIRCULATION DESK<br>RECEPTACLES                        |                          |  |
| CIRC. 212/CORRIDOR 015<br>RECEPTACLES         | 20/1 | 17               | 540<br>180   |          | 18 | 20/1              | CAB/DISPLAY<br>RECEPTACLE                              |                          |  |
| CIRCULATION DESK<br>RECEPTACLES               | 20/1 | 19               | 360<br>1500  |          | 20 | 20/1              | FICTION 205/207<br>LIGHTING                            |                          |  |
| REFERENCE 201<br>LIGHTING                     | 20/1 | 21               | 1250<br>1200 |          | 22 | 20/1              | NON FICTION 015/DIR. OFFICE<br>TECH. SERVICES LIGHTING |                          |  |
| REFERENCE 201<br>RECEPTACLES                  | 20/1 | 23               | 540<br>600   |          | 24 | 20/1              | UNI-SEX 204<br>EF-A (EXH. FAN)                         |                          |  |
| REFERENCE 201<br>RECEPTACLES                  | 20/1 | 25               | 360<br>1000  |          | 26 | 20/1              | CIRCULATION PENDANT<br>LIGHTING                        |                          |  |
| REFERENCE 201<br>RECEPTACLES                  | 20/1 | 27               | 360<br>500   |          | 28 | 20/1              | CIRCULATION DOWN<br>LIGHTING                           |                          |  |
| FICTION/AUDIO & VIDEO<br>RECEPTACLES          | 20/1 | 29               | 500<br>1955  |          | 30 | 40/2              | SPARE  |                          |  |
| ENTRY<br>LIGHTING                             | 20/1 | 31               | 350<br>1455  |          | 32 | ---               | ---  |                          |  |
| STAIRS 105<br>LIGHTING                        | 20/1 | 33               | 400<br>1455  |          | 34 | 30/2              | SPARE  |                          |  |
| CORRIDOR 203<br>LIGHTING                      | 20/1 | 35               | 800<br>1455  |          | 36 | ---               | ---  |                          |  |
| VESTIBULE<br>RECEPTACLES                      | 20/1 | 37               | 500<br>500   |          | 38 | 20/1              | ENTRY<br>RECEPTACLES                                   |                          |  |
| RECEPTACLE MTD.<br>BELOW THIS PANEL           | 20/1 | 39               | 180<br>256   |          | 40 | 20/1              | MECH. ATTIC<br>SERVICE LIGHTING                        |                          |  |
| CONNECTED LOAD                                |      |                  | 15220        | 12516    |    |                   | NOTES  |                          |  |
| DEMAND  | 70%  |                  | 10645        | 8761     |    |                   | (GF) GROUND FAULT<br>(BL) BREAKER LOCK KIT             |                          |  |
| TOTAL DEMAND LOAD                             |      |                  | 19406        |          |    |                   |  |                          |  |

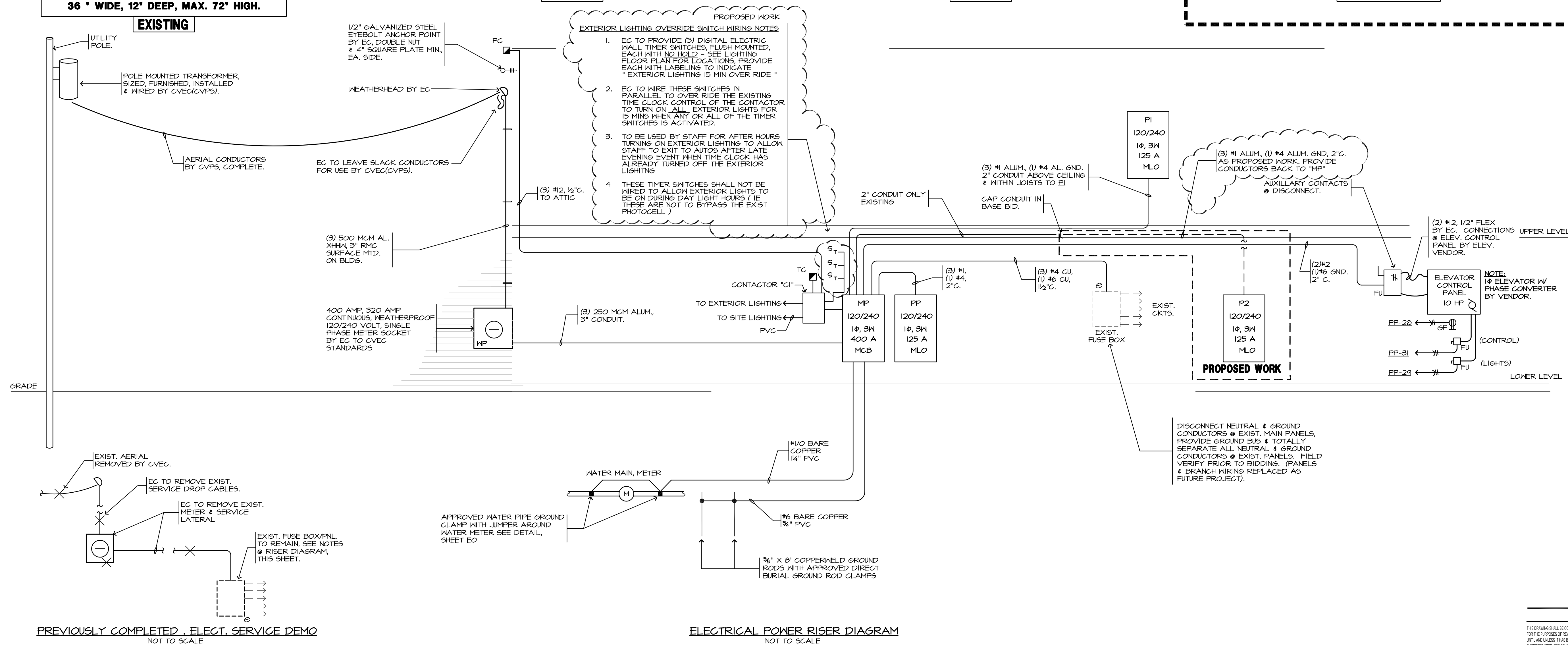
| PANEL: P2                                      |      | VOLTAGE: 120/240 |              | PHASE: 1 |    | MAIN: 125 A - MLO |  | MCB                      |  |
|--|------|------------------|--------------|----------|----|-------------------|--|--------------------------|--|
| TYPE: PANELBOARD                               |      | LOADCENTER       |              | PLUG IN  |    | BOLT ON           |  | FAULT RATING: 10,000 dlc |  |
| LOCATION: TECH. SERVICES                       |      | MOUNTING:        |              | SURFACE  |    |                   |  |                          |  |
| DIRECTORY                                      | TRIP | Ø                | AØ           | BØ       | Ø  | TRIP              | DIRECTORY  |                          |  |
| CHILDRENS ROOM 101<br>RECEPTACLES (GF)         | 20/1 | 1                | 540<br>900   |          | 2  | 20/1              | MEETINGS ROOM 107<br>RECEPTACLES                 |                          |  |
| TEENS AREA I13<br>RECEPTACLES (GF)             | 20/1 | 3                | 360<br>720   |          | 4  | 20/1              | JUNIOR ROOM I17<br>RECEPTACLES                   |                          |  |
| JUNIOR ROOM I17<br>WORK STATION RECEPT. (GF)   | 20/1 | 5                | 360<br>360   |          | 6  | 20/1              | JUNIOR ROOM I17<br>WORK STATION RECEPTACLES      |                          |  |
| SPARE (GF)                                     | 20/1 | 7                | 500<br>500   |          | 8  | 20/1              | JUNIOR ROOM I17<br>WALL RECEPTACLES              |                          |  |
| UNI-SEX 108<br>EXH. FAN (EF-A) x 2             | 20/1 | 9                | 800<br>540   |          | 10 | 20/1              | CLOSET I10/COFFEE I09/UNI-SEX 108<br>RECEPTACLES |                          |  |
| CIRCULATION III<br>COUNTER RECEPTACLE          | 20/1 | 11               | 360<br>360   |          | 12 | 20/1              | CIRCULATION III<br>COUNTER RECEPTACLE            |                          |  |
| COFFEE BAR 104<br>REF. RECEPT. (EG TO CONFIRM) | 20/1 | 13               | 1000<br>1100 |          | 14 | 20/1              | COFFEE BAR 104<br>MICRO RECEPT. (EG TO CONFIRM)  |                          |  |
| SPARE  | 20/1 | 15               | 500<br>500   |          | 16 | 20/1              | CIRCULATION III<br>COUNTER RECEPTACLE            |                          |  |
| TEENS AREA I13<br>LIGHTING                     | 20/1 | 17               | 750<br>900   |          | 18 | 20/1              | JUNIOR ROOM I17<br>LIGHTING                      |                          |  |
| CIRCULATION III<br>LIGHTING                    | 20/1 | 19               | 600<br>780   |          | 20 | 20/1              | MEETING ROOM 107<br>LIGHTING                     |                          |  |
| SPARE  | 20/1 | 21               | 500<br>500   |          | 22 | 20/1              | SPARE  |                          |  |
| CLOSET, EXIT, UNISEX, COFFEE<br>LIGHTING       | 20/1 | 23               | 610<br>640   |          | 24 | 20/1              | CHILDRENS ROOM 101<br>LIGHTING                   |                          |  |
| SPARE  | 20/1 | 25               | 500<br>500   |          | 26 | 20/1              | CLOSET / VESTIBULE<br>RECEPTACLES                |                          |  |
| SPARE  | 20/1 | 27               | 500<br>500   |          | 28 | 20/1              | AREA OF RESCUE<br>ASSISTANCE PANELS (BL)         |                          |  |
| SPARE  | 20/1 | 29               | 500<br>500   |          | 30 | 20/1              | ICE MELT<br>RECEPTACLES                          |                          |  |
| SUMP PUMP<br>RECEPTACLE                        | 20/1 | 31               | 500<br>500   |          | 32 | 20/1              | BOTTLED WATER<br>RECEPTACLE                      |                          |  |
| SPARE  | 30/2 | 33               | 500<br>500   |          | 34 | 40/2              | SPARE  |                          |  |
| ---  | ---  | 35               | 500<br>500   |          | 36 | ---               | ---  |                          |  |
| ELECTRIC WALL HEATER                           | 20/2 | 37               | 500<br>500   |          | 38 | 20/2              | ELECTRIC WALL HEATER                             |                          |  |
| ---  | ---  | 39               | 500<br>500   |          | 40 | ---               | ---  |                          |  |
| CONNECTED LOAD                                 |      |                  | 12250        | 10540    |    |                   | NOTES  |                          |  |
| DEMAND   | 70%  |                  | 8575         | 7378     |    |                   | (GF) GROUND FAULT<br>(BL) BREAKER LOCK KIT       |                          |  |
| TOTAL DEMAND LOAD                              |      |                  | 15453        |          |    |                   |  |                          |  |

SUITABLE FOR USE AS SERVICE EQUIPMENT  
36" WIDE, 12" DEEP, MAX. 72" HIGH.

EXISTING

EXISTING

PROPOSED WORK



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**ELECTRICAL PANEL SCHEDULES (NEW/EXISTING)**

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**E1.1**

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LIGHTING PLANS

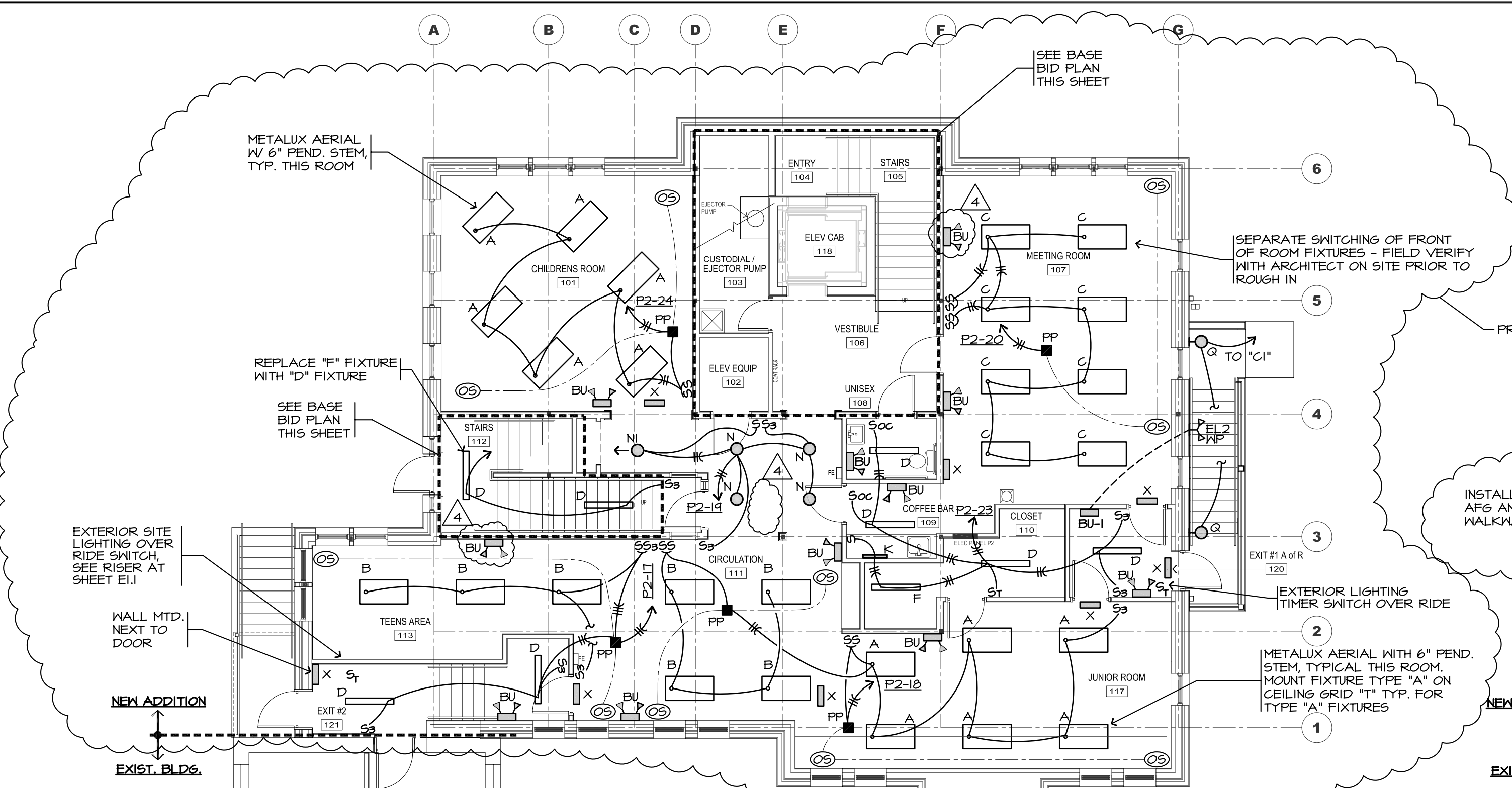
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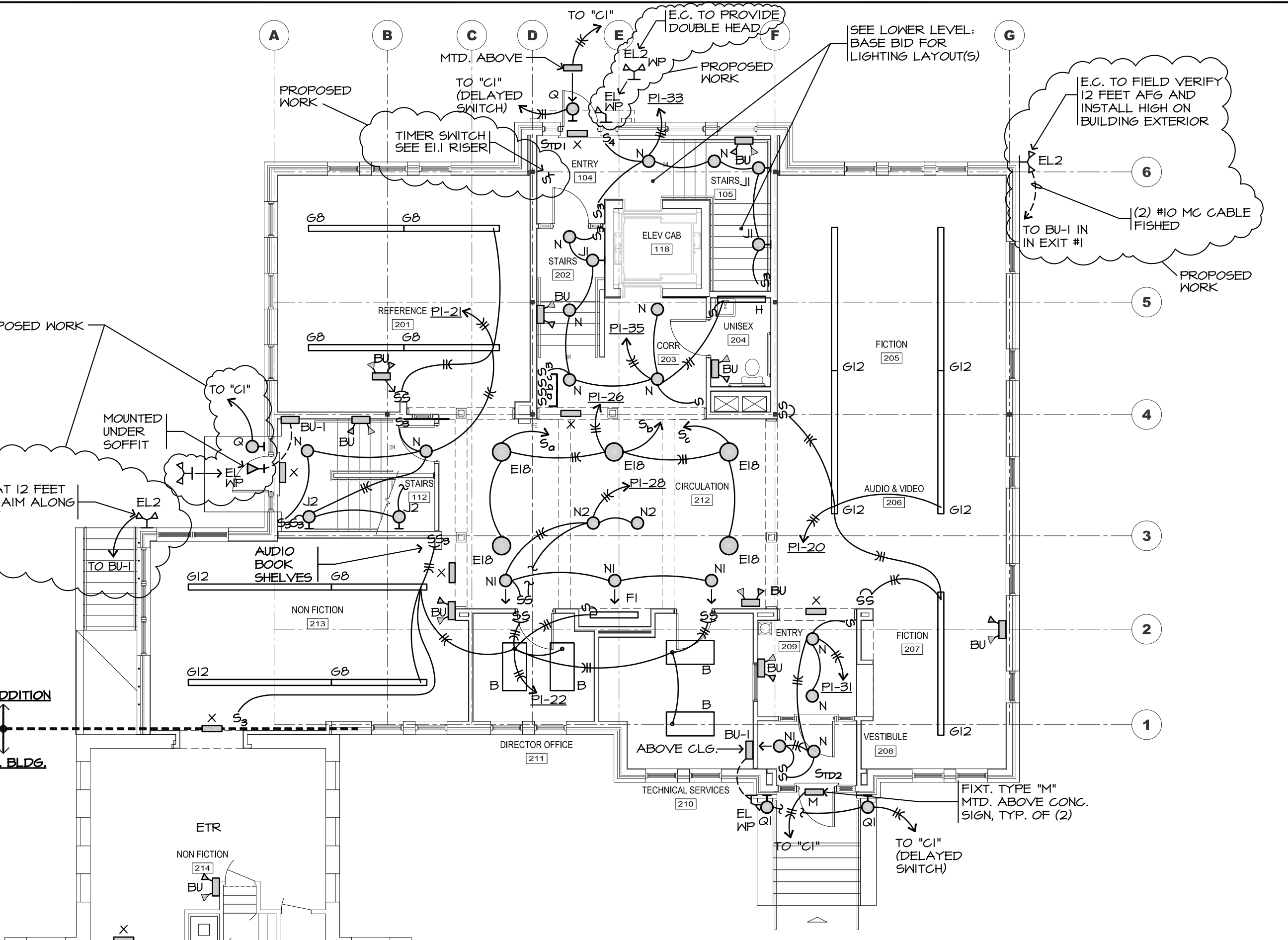
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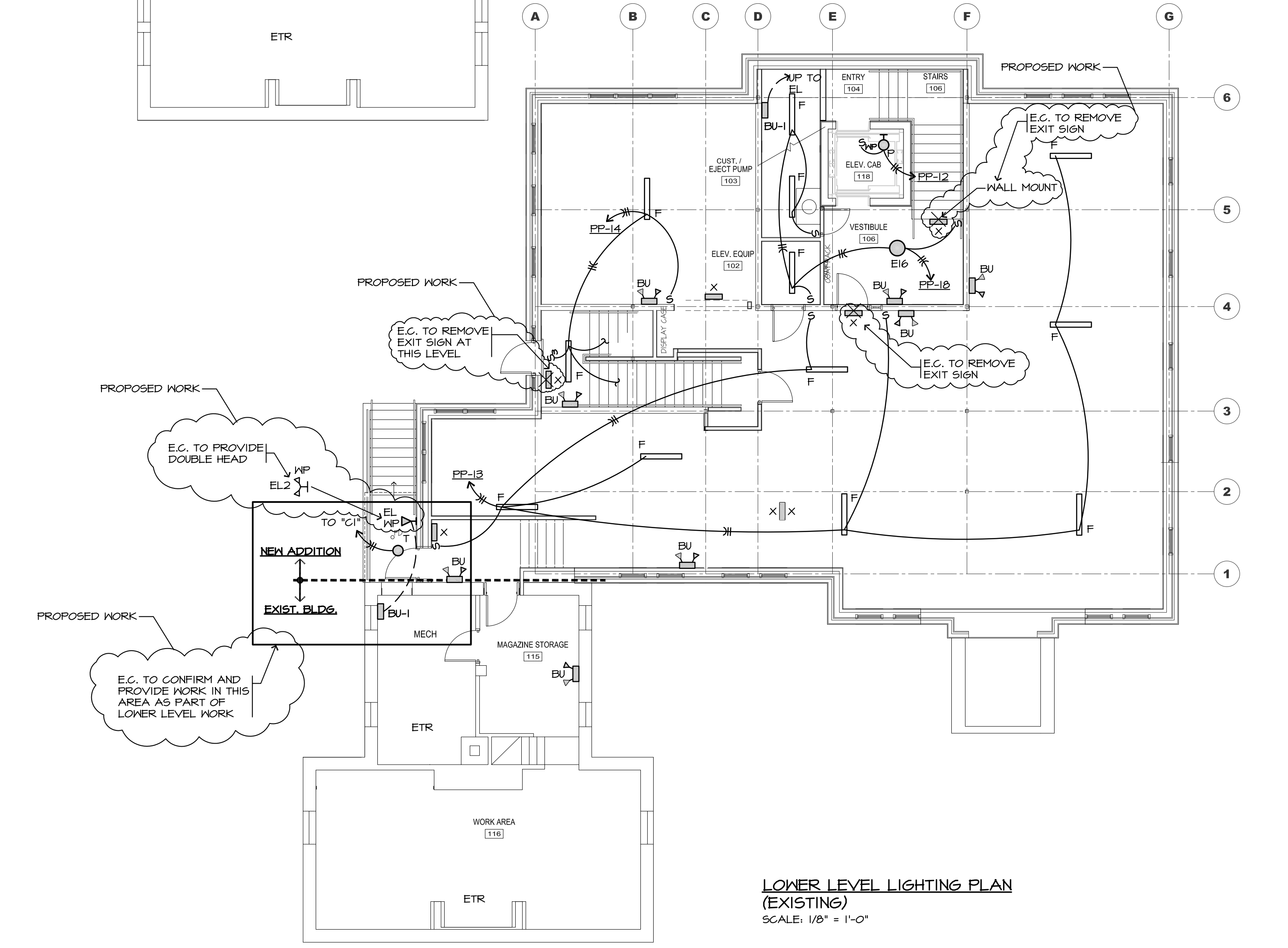
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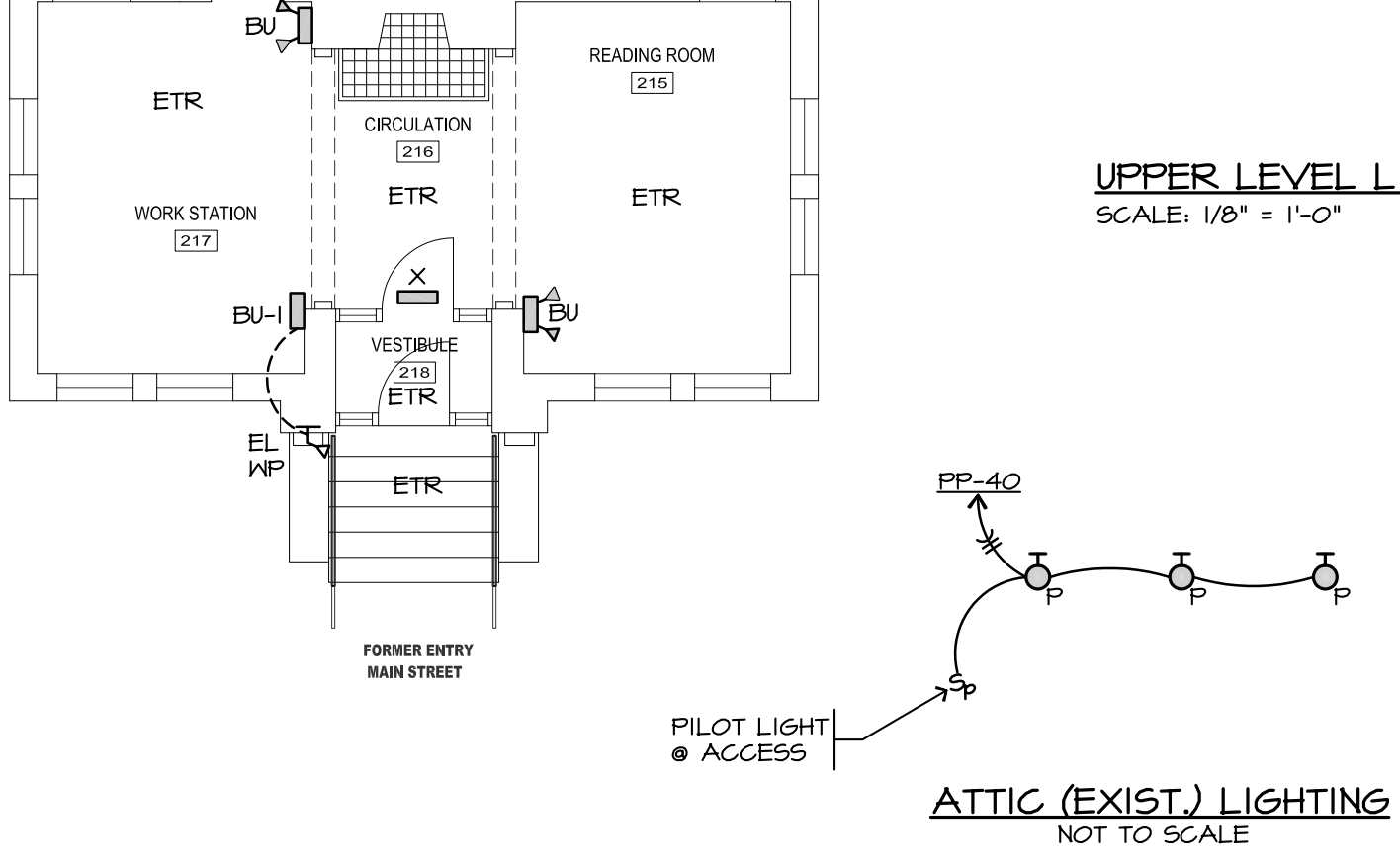
**LOWER LEVEL LIGHTING PLAN**  
(BASEMENT WORK - PROPOSED)  
SCALE: 1/8" = 1'-0"



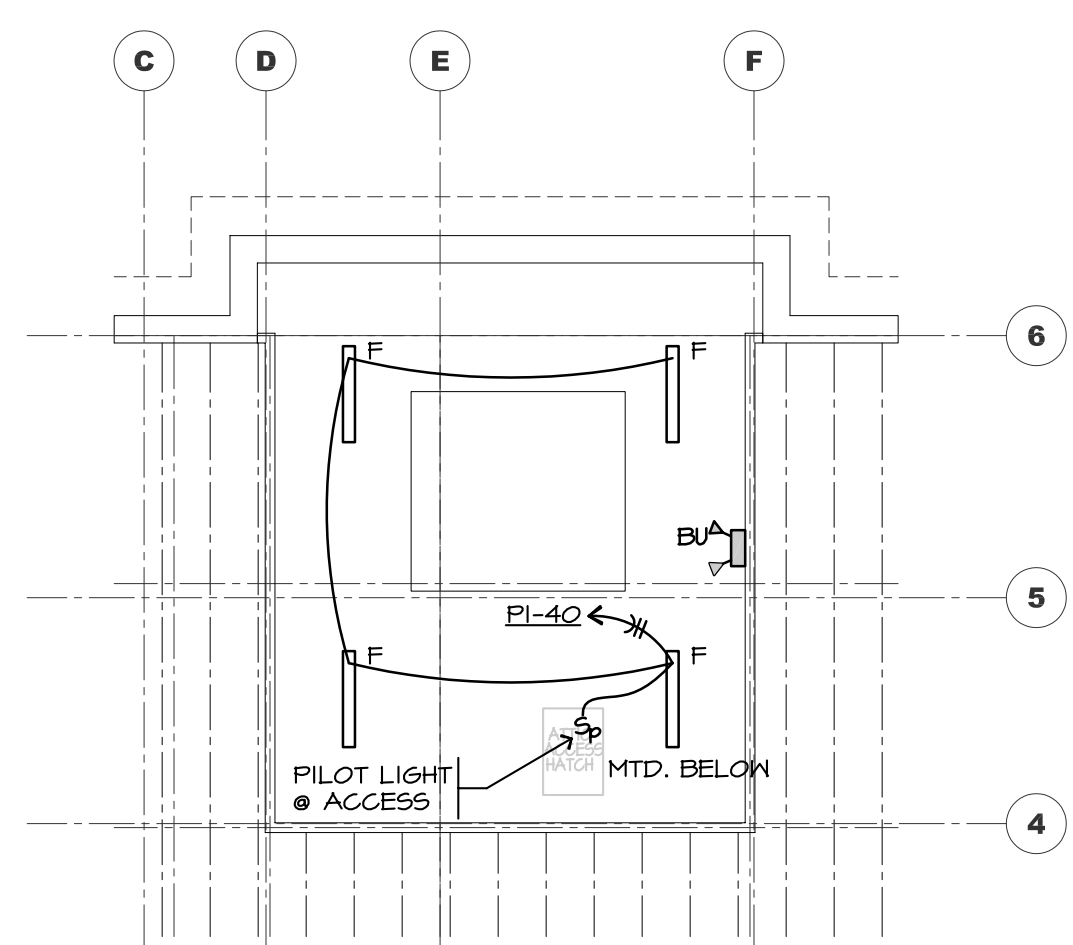
**UPPER LEVEL LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"



**LOWER LEVEL LIGHTING PLAN**  
(EXISTING)  
SCALE: 1/8" = 1'-0"



**ATTIC (EXIST.) LIGHTING**  
NOT TO SCALE



**MECH. ATTIC LIGHTING PLAN**  
NOT TO SCALE

NOTE:  
COORD. LOCATION(S) OF FIXTURE TYPE "F" - HV DIV. 12 (MECH. EQUIPMENT)

**NOTES:**

- E.G. TO REFER TO ARCH. ELEVATIONS AND SECTIONS FOR EXACT LOCATION OF LIGHTING / EMERGENCY LIGHTING / EXITS, TYPICAL

**BATTERY UNIT WIRING NOTES:**

- WIRE BATTERY UNITS AND EXIT SIGNS TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHES OR AUTOMATIC CONTROLS
- WIRE BATTERY UNITS SERVING EXTERIOR EMERGENCY LIGHTING TO EXTERIOR LIGHTING CIRCUIT AHEAD OF AUTOMATIC CONTROLS
- BATTERY UNITS BU-1 SERVING EXTERIOR EMERGENCY LIGHTING SHALL BE UTILITY TYPE, INSTALLED IN UTILITY ROOMS AND INCLUDE TIME DELAY RELAY TO EXTEND OPERATING TIME AFTER RETURN OF NORMAL POWER BY 15 MINS TO PROVIDE COVERAGE DURING EXTERIOR LIGHTING RESTRIKE TIMES

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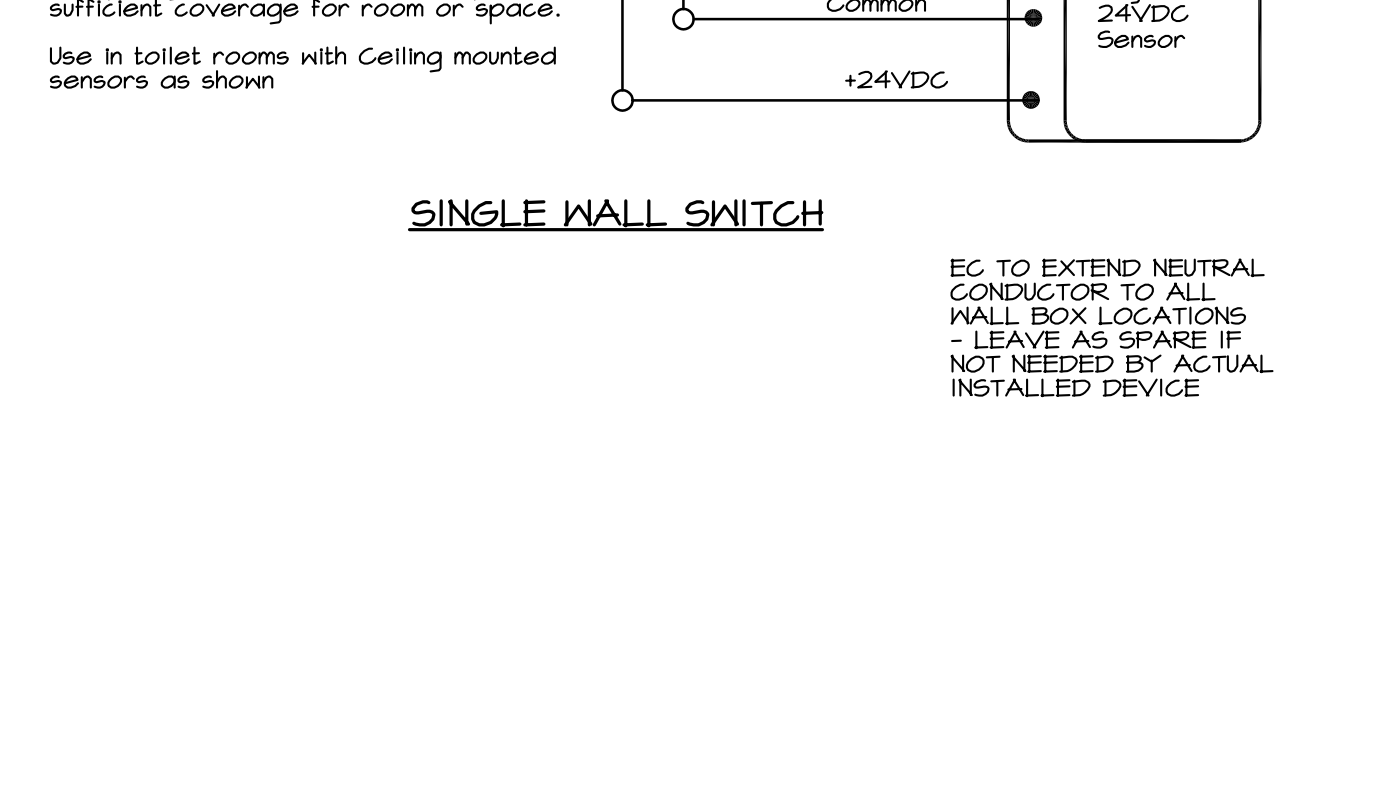
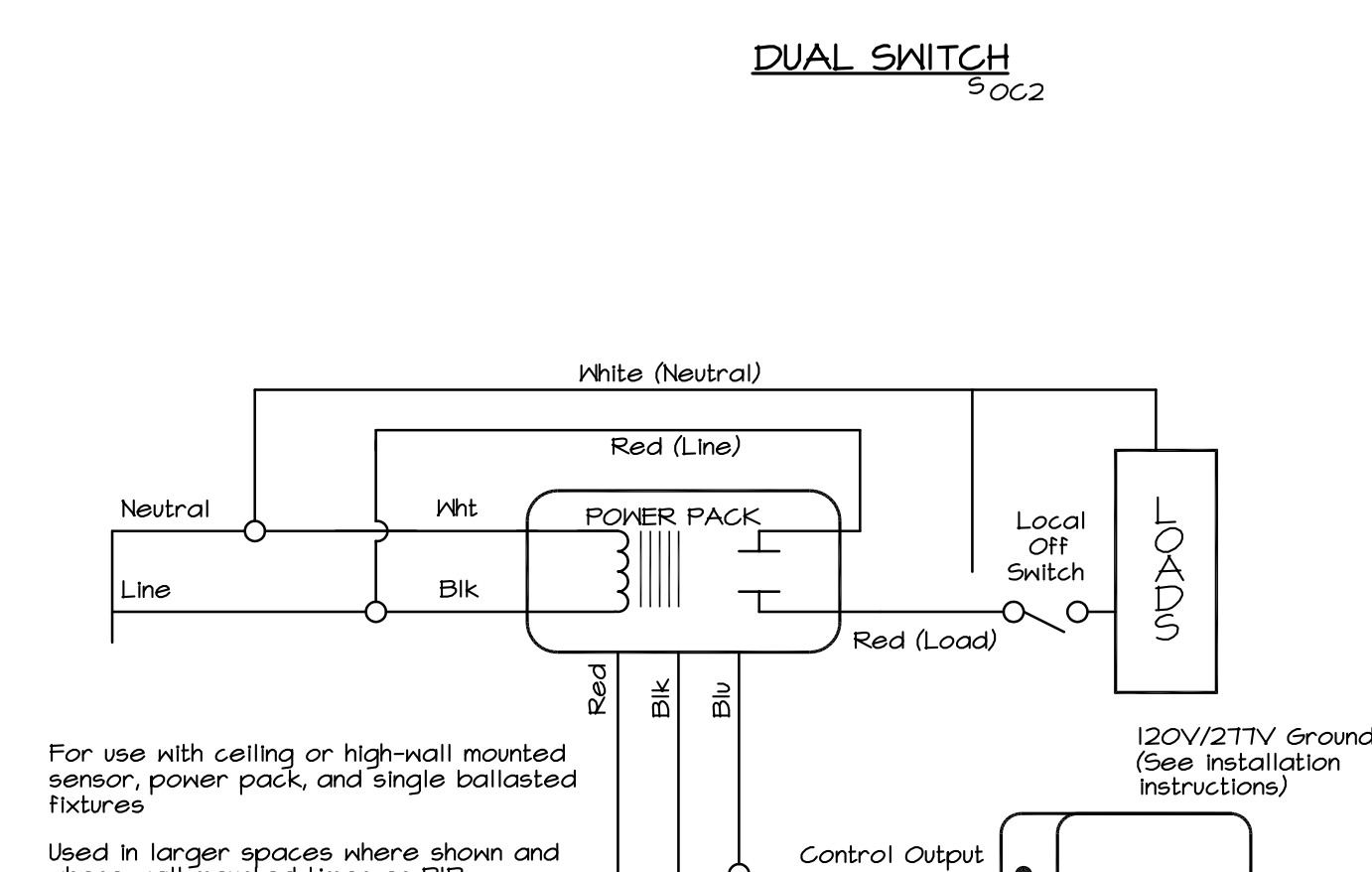
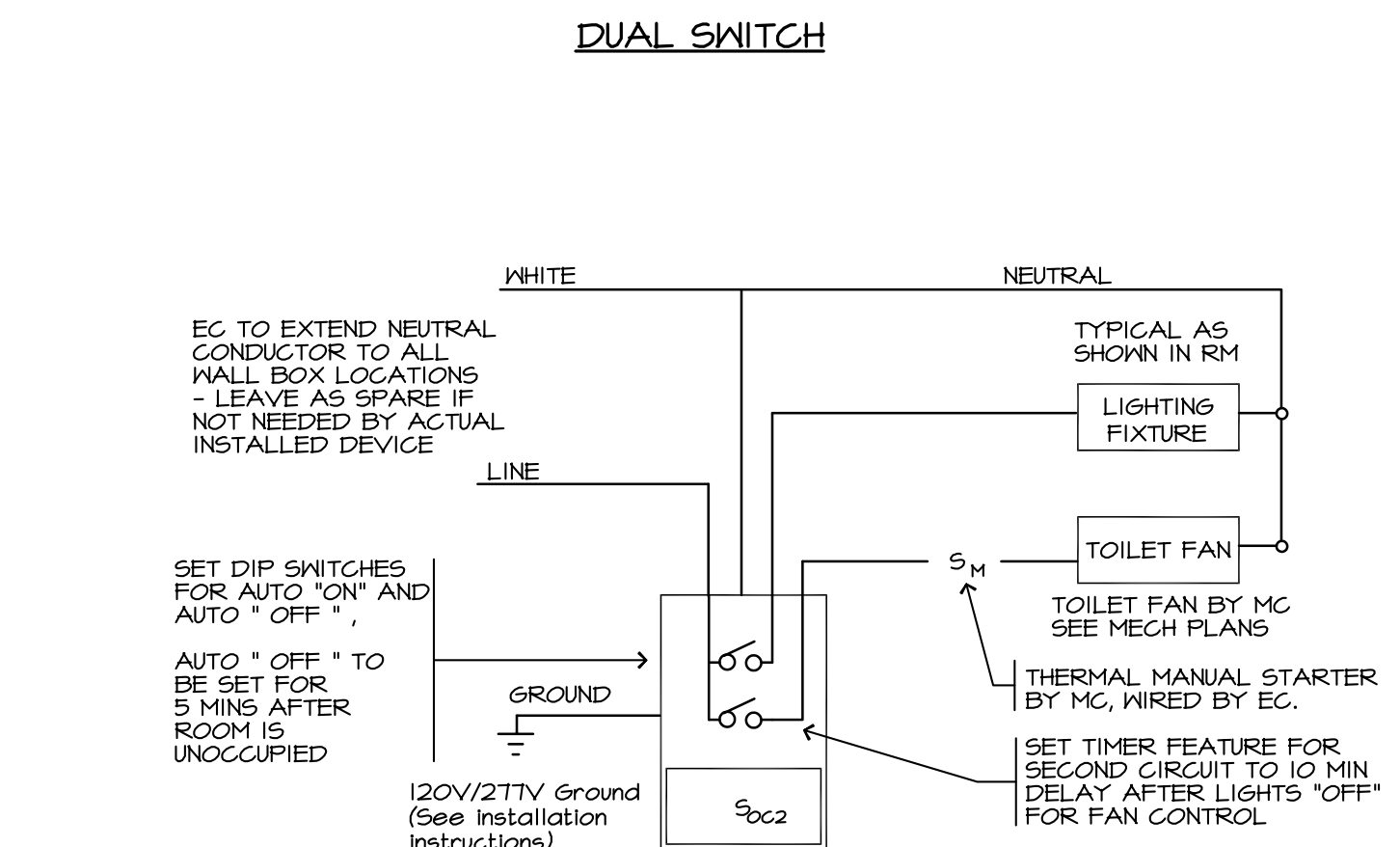
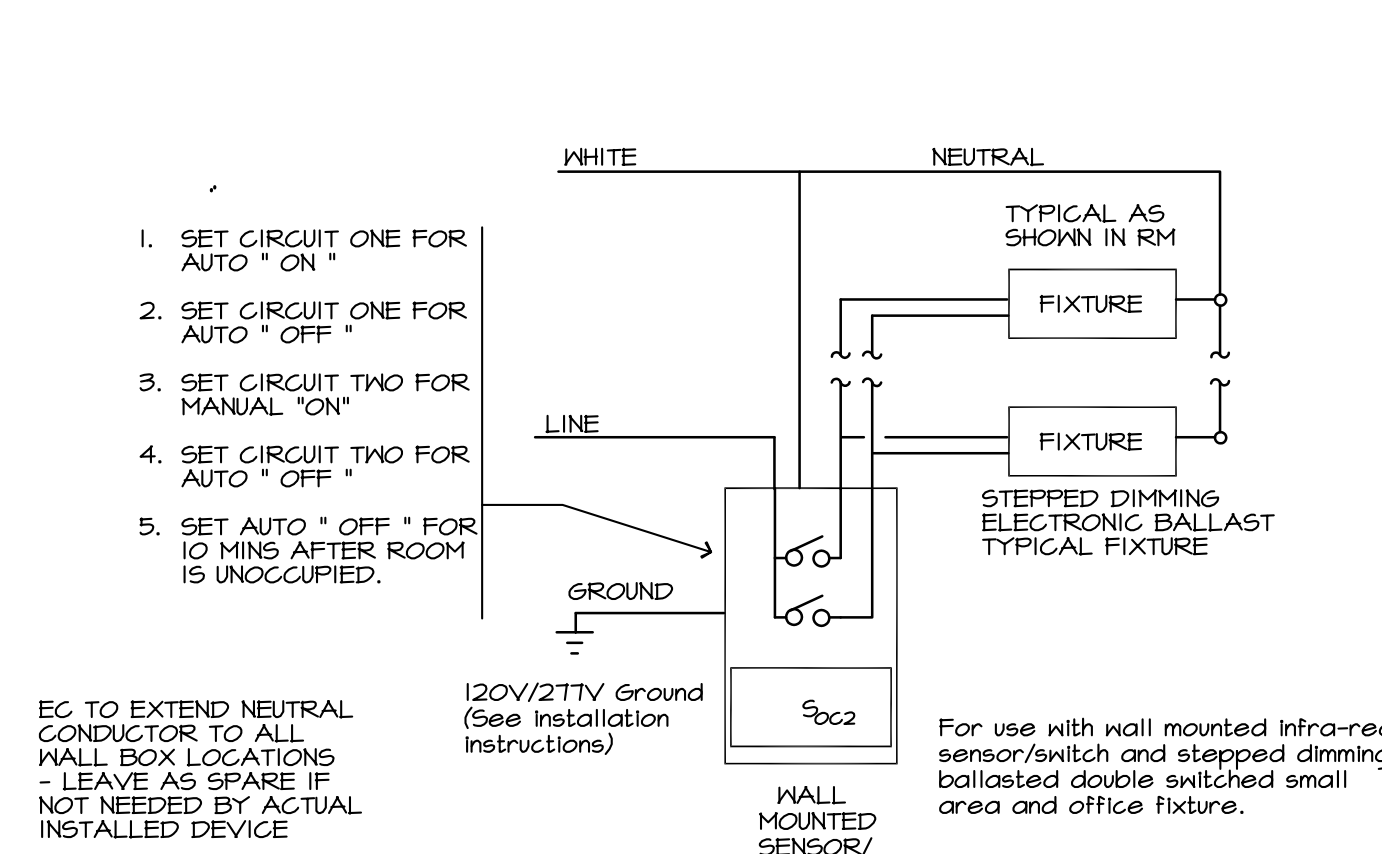
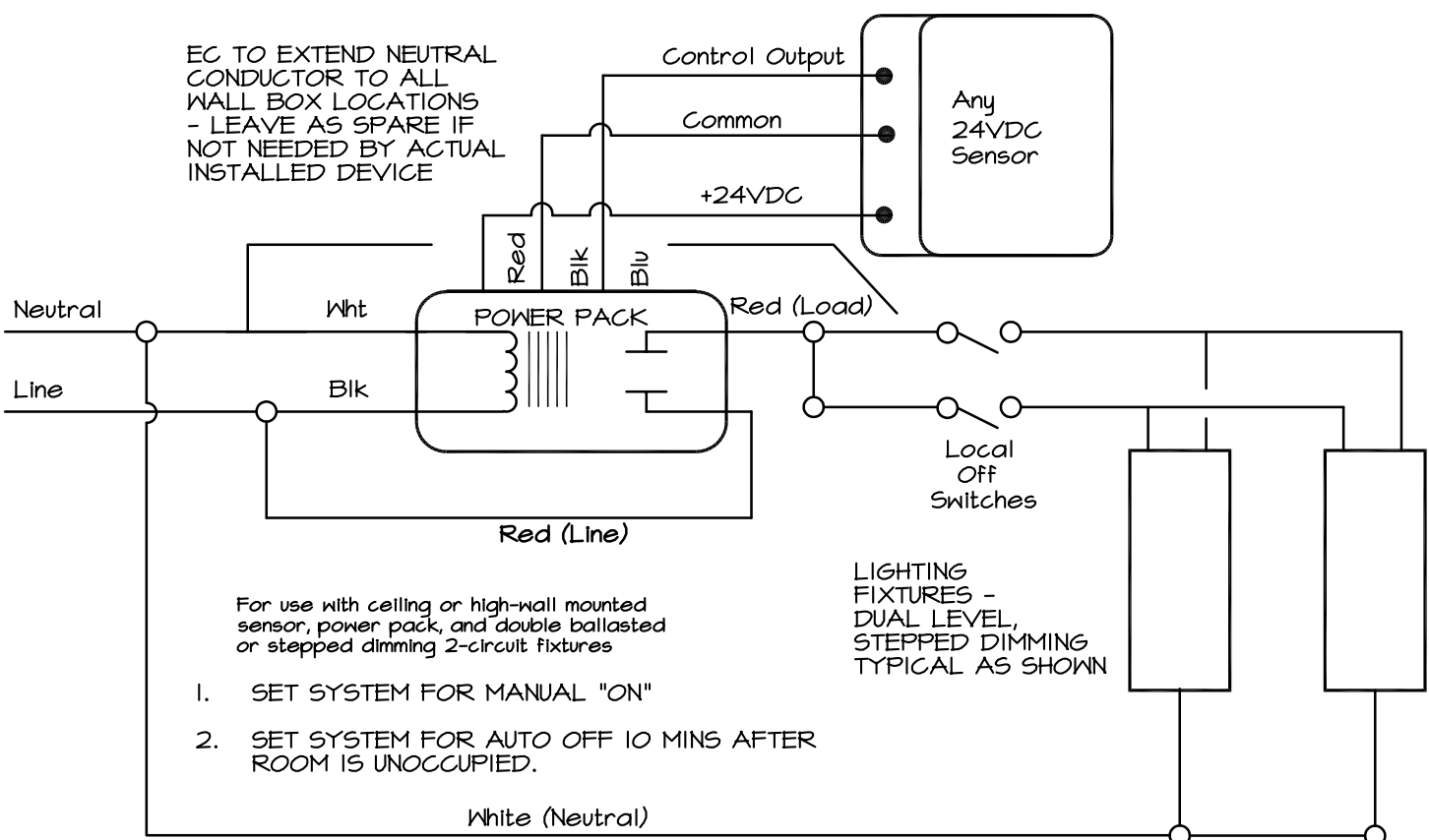
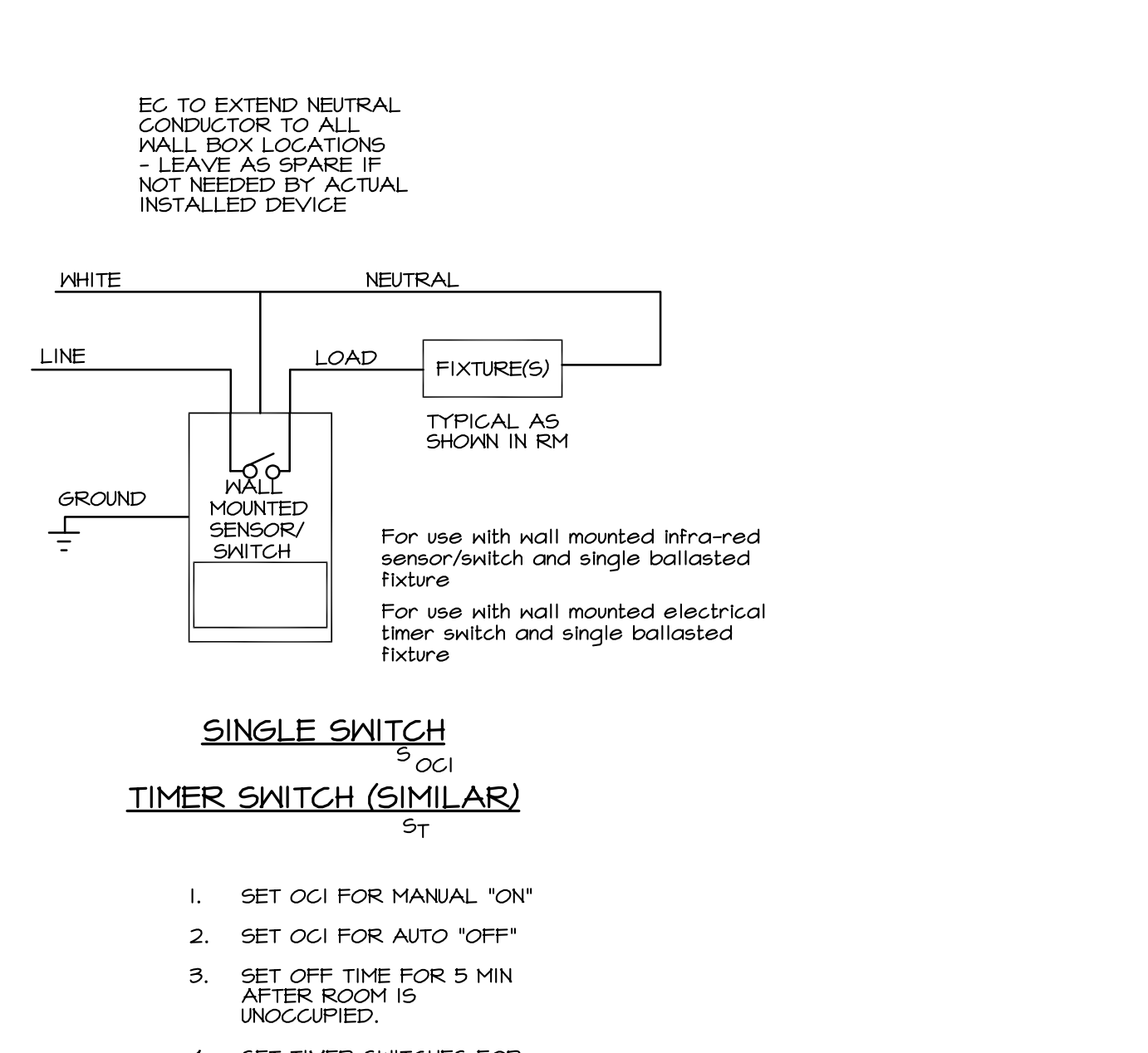
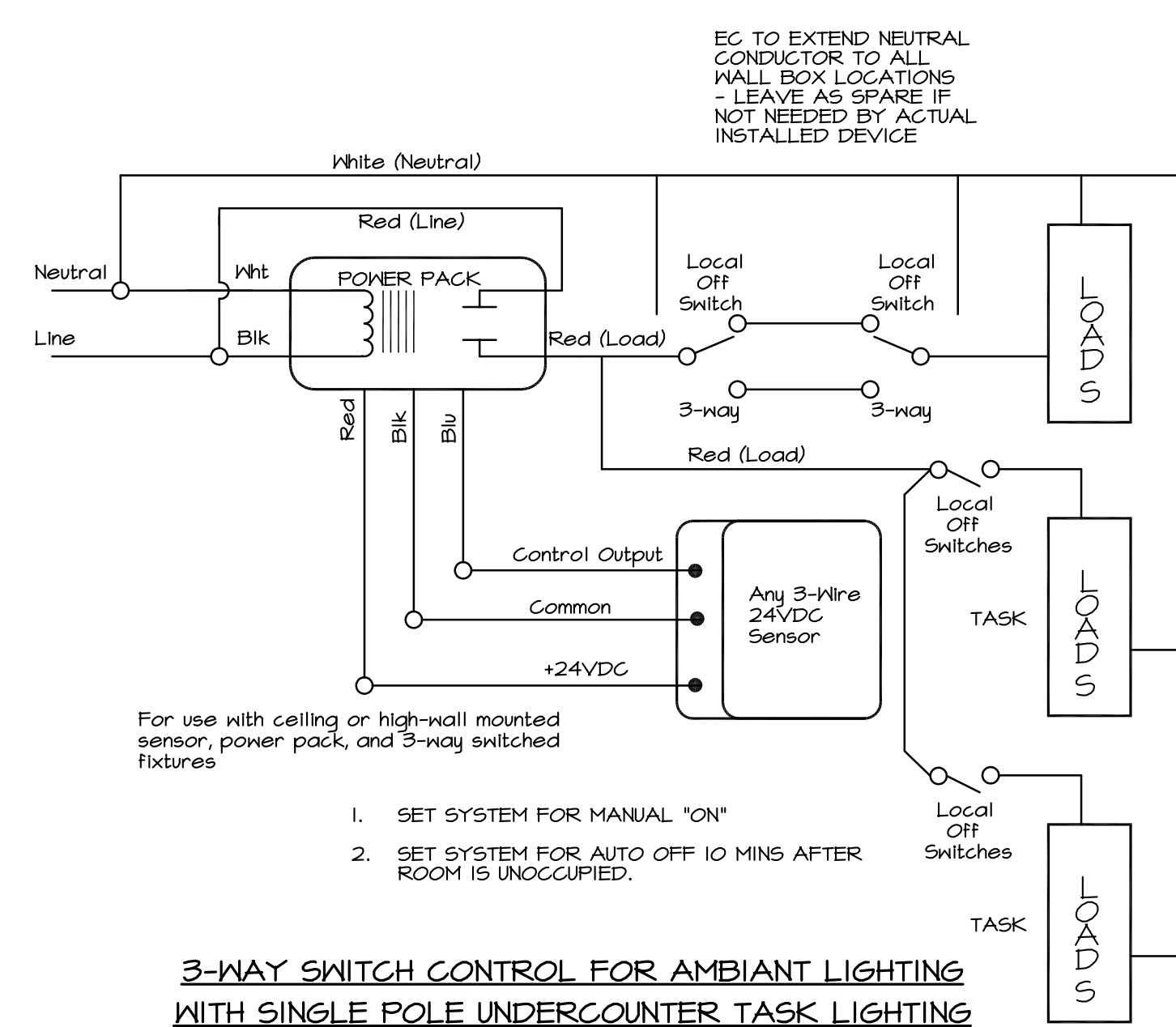
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LIGHTING CONTROLS

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### Product Overview

WattStopper's CI 200 Series Passive Infrared (PIR) Ceiling Sensors provide 360° coverage to detect occupancy in the controlled area. These low-profile sensors reliably control lighting in a variety of applications.

The CI-200 Series Sensors are a 24 VDC and control lighting through WattStopper power packs. Utilizing the latest PIR technology, they turn lighting on when a difference is detected between the infrared energy from a human being in motion and the background space within the controlled area. After the area is vacated for a user adjustable time delay, lighting automatically turns off.

### Features

- ASIC technology reduces components and enhances reliability.
- Pulse Count Processing eliminates false-off without reducing sensitivity.
- Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI
- Low-profile design ensures a clean and uncluttered ceiling appearance.
- User adjustable time delay from 15 seconds to 30 minutes by two minute increments.
- ASIC technology reduces components and enhances reliability.
- Pulse Count Processing eliminates false off without reducing sensitivity.
- Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI
- Zero crossing circuitry reduces stress on the relay and results in increased sensor life.

### Product Overview

The WI-300 is a passive infrared automatic wall switch that turns lighting on and off based on occupancy and ambient light levels. It contains two separate relays, and can control two independent lighting loads or circuits.

The WI-300 uses advanced passive infrared technology to detect occupancy. The sensor detects the difference between the infrared energy from a human body in motion and the background space. When the sensor detects occupancy, it automatically turns the lights on for both relays. After a period of time when no occupancy is detected, lighting automatically switches off. Each of the WI-300's relays simultaneously controls a separate lighting load. Dual Auto-Off buttons allow the user to manually turn on and off each of these loads. When a button is soft in the Auto position, that load will turn on automatically with occupancy.

### Features

- Contains two relays for control of two independent lighting loads or circuits.
- Secondary relay is isolated.
- ASIC technology reduces components and enhances reliability.
- Pulse Count Processing eliminates false off without reducing sensitivity.
- Detection Signature Analysis eliminates false triggers and provides immunity to RFI and EMI
- Zero crossing circuitry reduces stress on the relay and results in increased sensor life.
- Time delay adjustment from 30 seconds to 30 minutes.
- Built-in light level sensor in the second relay holds lights off until natural light levels drop.
- Four-level patented Fresnel lens provides superior desk-top detection.
- Patented voltage drop protection.
- For safety, there is no leakage to lead in the off mode and sensor is safety grounded.
- Units are lamp resistant.
- LED indicates occupancy detection.

### Specifications

- Dial-element, temperature compensated pyroelectric sensor.
- CI-200 contains isolated relay with N/O and N/C outputs, rated for 1 Amp at 24 VDC/VAC.
- Adjustable delay time delay: 15 seconds to 30 minutes with 1% tolerance.
- Integrated light level sensor, 4-190 footcandles (43-2345 lux)
- Mounting options using hole, round trim ring.
- Max. CI-200s per power pack: B = 5, BZ = 7
- Max. CI-205s per power pack: B = 10, BZ = 13
- Dimensions: 3.3" x 2.2" (84mm x 56mm)
- Mounting depth extends approximately .36" (9.14mm) from ceiling.
- UL and cUL listed.
- Five year warranty.

### Wiring, Mounting & Settings

### Ordering Information

| Catalog No. | Voltage                                     | Current | Coverage                   | Features                    |
|-------------|---|---------|----------------------------|-----------------------------|
| CI-200      | 24 VDC                                      | 20 mA   | 360° up to 300' (91.4 x m) | Isolated relay, light level |
| CI-205-U    | 24 VDC                                      | 11 mA   | 360° up to 300' (91.4 x m) | Isolated relay, light level |
| CI-200-L    | 24 VDC                                      | 20 mA   | 360° up to 300' (91.4 x m) | Isolated relay, light level |
| CI-205-L    | 24 VDC                                      | 11 mA   | 360° up to 300' (91.4 x m) | Isolated relay, light level |
| CI-205-1    | 24 VDC                                      | 11 mA   | 360° up to 300' (91.4 x m) | Isolated relay, light level |
| MB-1        | Industrial Mounting Bracket                 |         |                            |                             |
| MB-2        | Industrial Mounting Bracket for HD fixtures |         |                            |                             |

All units are white and use WattStopper power packs. Current consumption is an LED-lightly fixture which only consumes per power pack in-vision.

www.wattstopper.com 1.800.879.8585

### Product Overview

The BZ 50 Universal Voltage Power Pack provides 24 VDC operating voltage to WattStopper's low-voltage occupancy sensors. This device is constructed with environmentally friendly materials and is RoHS compliant.

The BZ-50 consists of a high-efficiency switching power supply and a high-voltage relay. It has an input of 120/230/277 VAC, 50/60Hz, and an output of 24VDC, 225mA. It turns the connected load on and off automatically based on an occupancy sensor input.

The BZ-50 Power Pack is designed to be flexible enough to control almost any lighting or HVAC load, such as lighting circuits, self-contained air conditioners, pumps, fans, motors, VAV systems, motorized damper controls and setback thermostats. The BZ-50 is well-suited for any application which requires high-voltage switching through low voltage controls. By taking power packs and sensors, an almost unlimited number of configurations can be obtained.

### Features

- Self-contained power supply relay system
- Efficient switching power supply providing regulated current output based on number of sensors.
- LED indicates status of relay or if there is a low-voltage overcurrent
- RoHS-compliant
- Zero crossing circuitry for reliability and increased product life
- UL 2963 plenum rated for cost-effective installation
- 1/2" snap-in terminal attaches to standard electrical enclosures through 1/2" knock-knits
- 14 AWG wires on the relay for 24A operation
- Qualifies for AIAA funded public works projects

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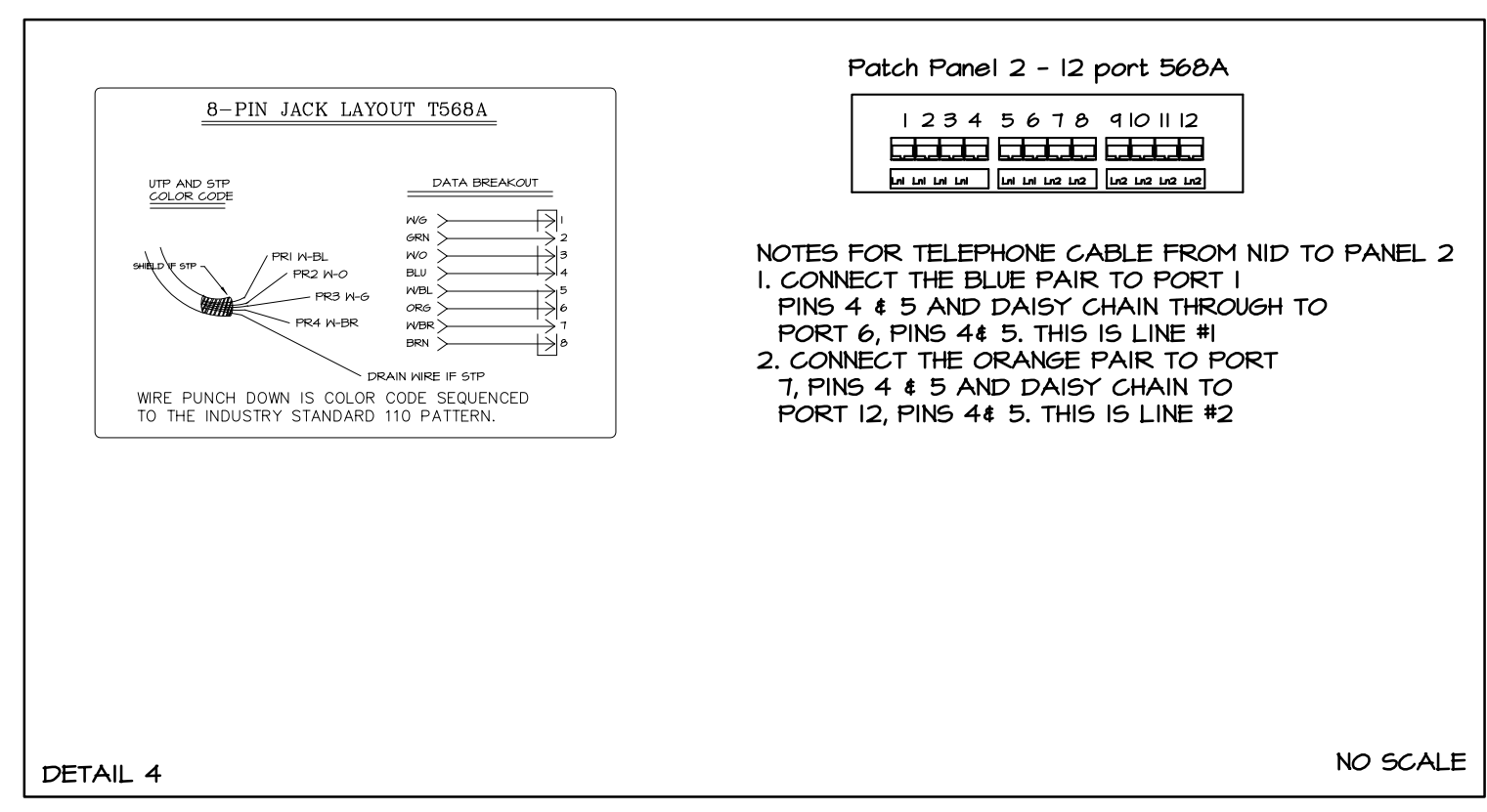
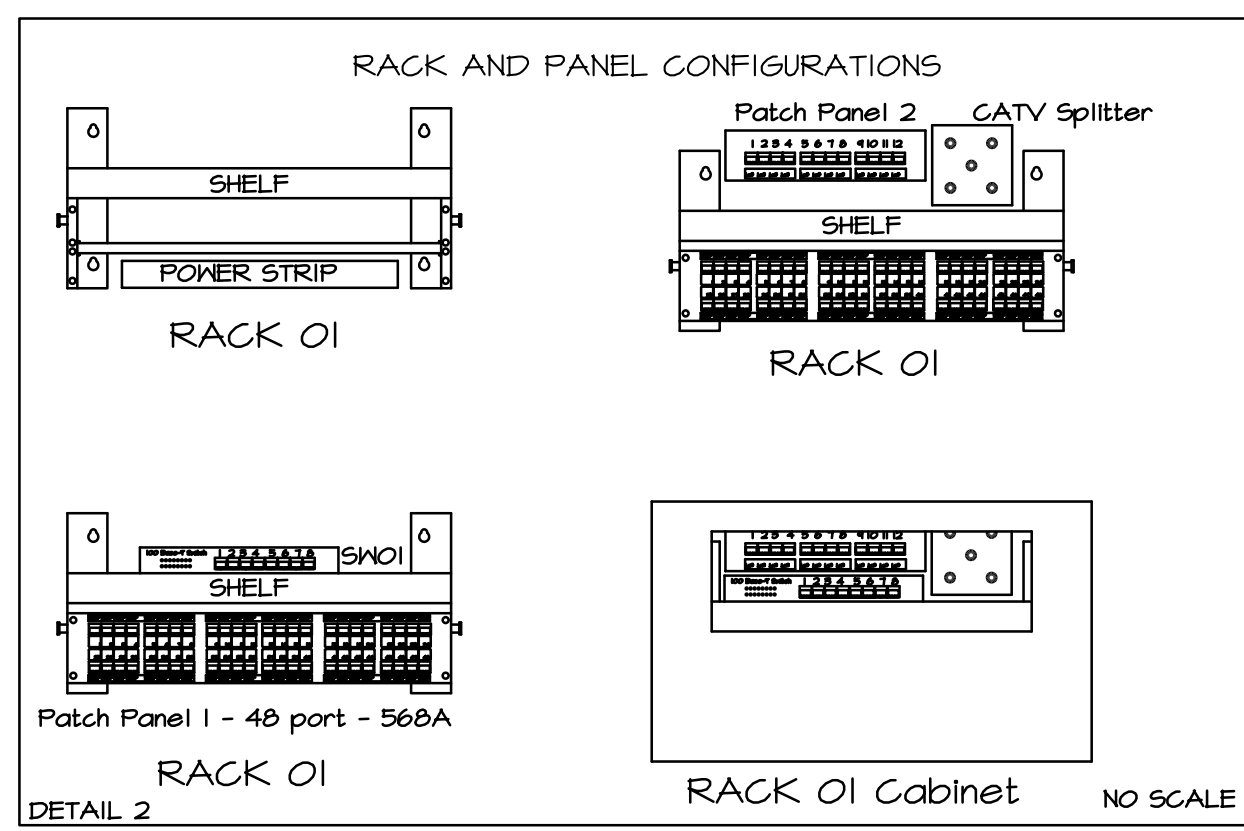
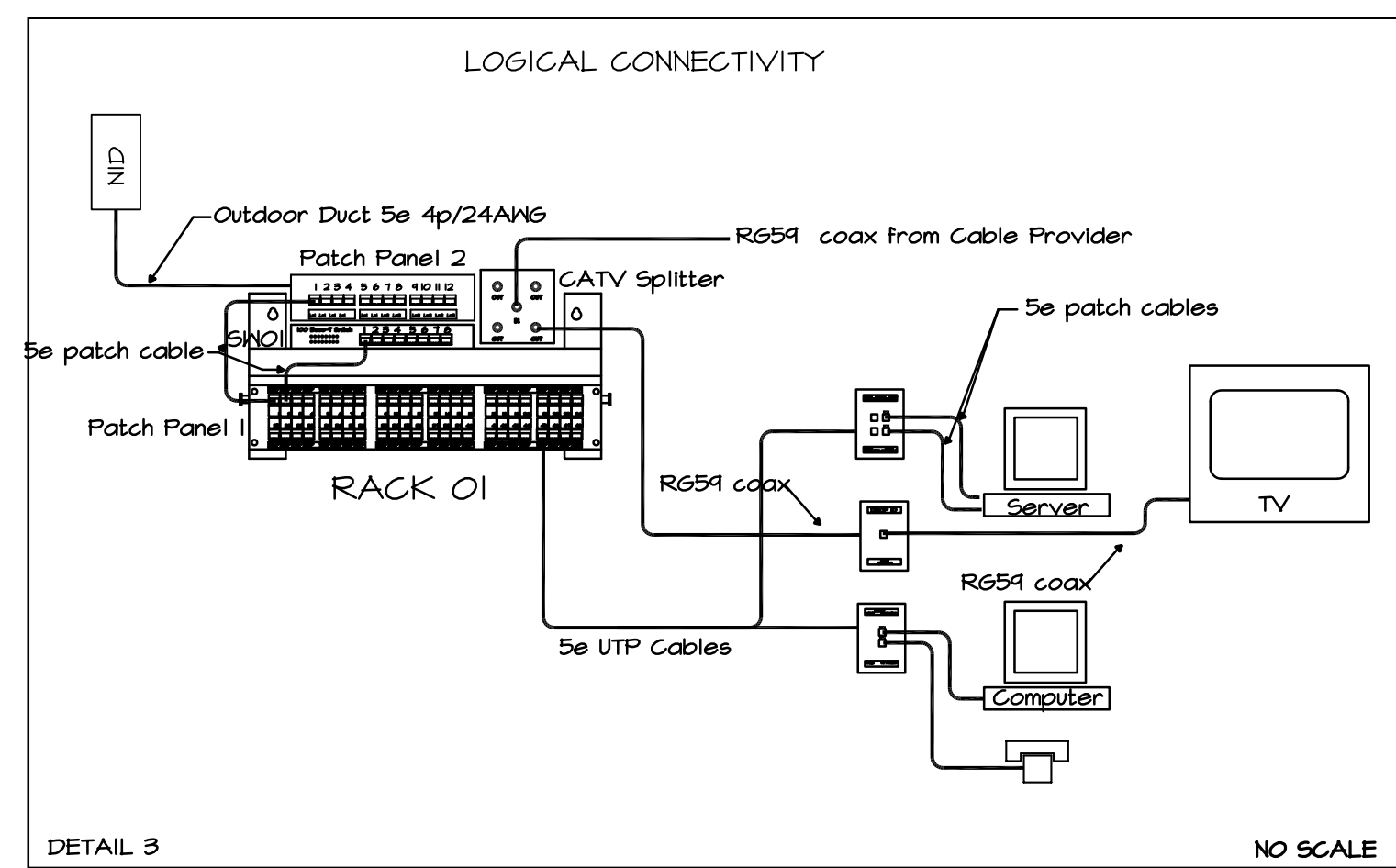
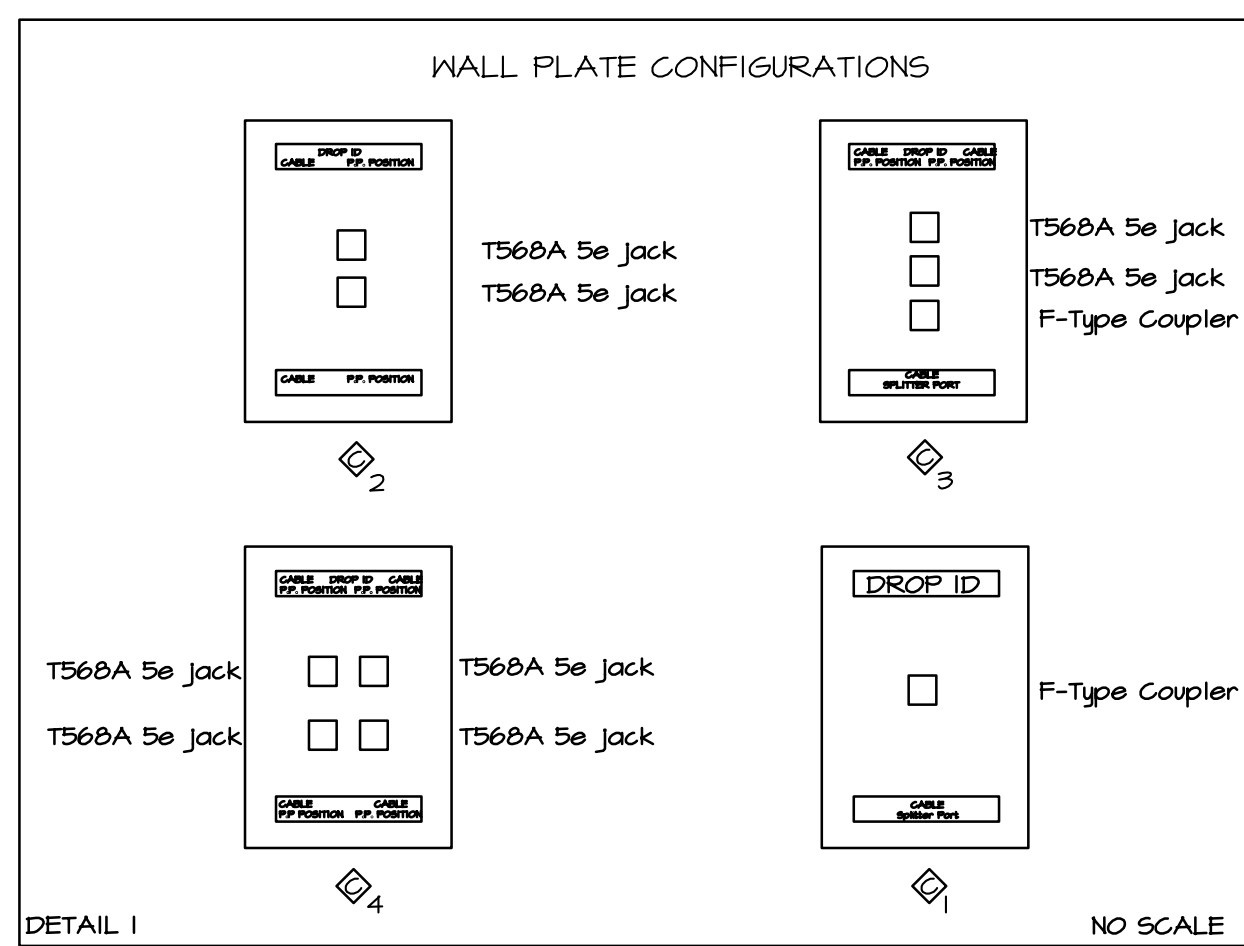
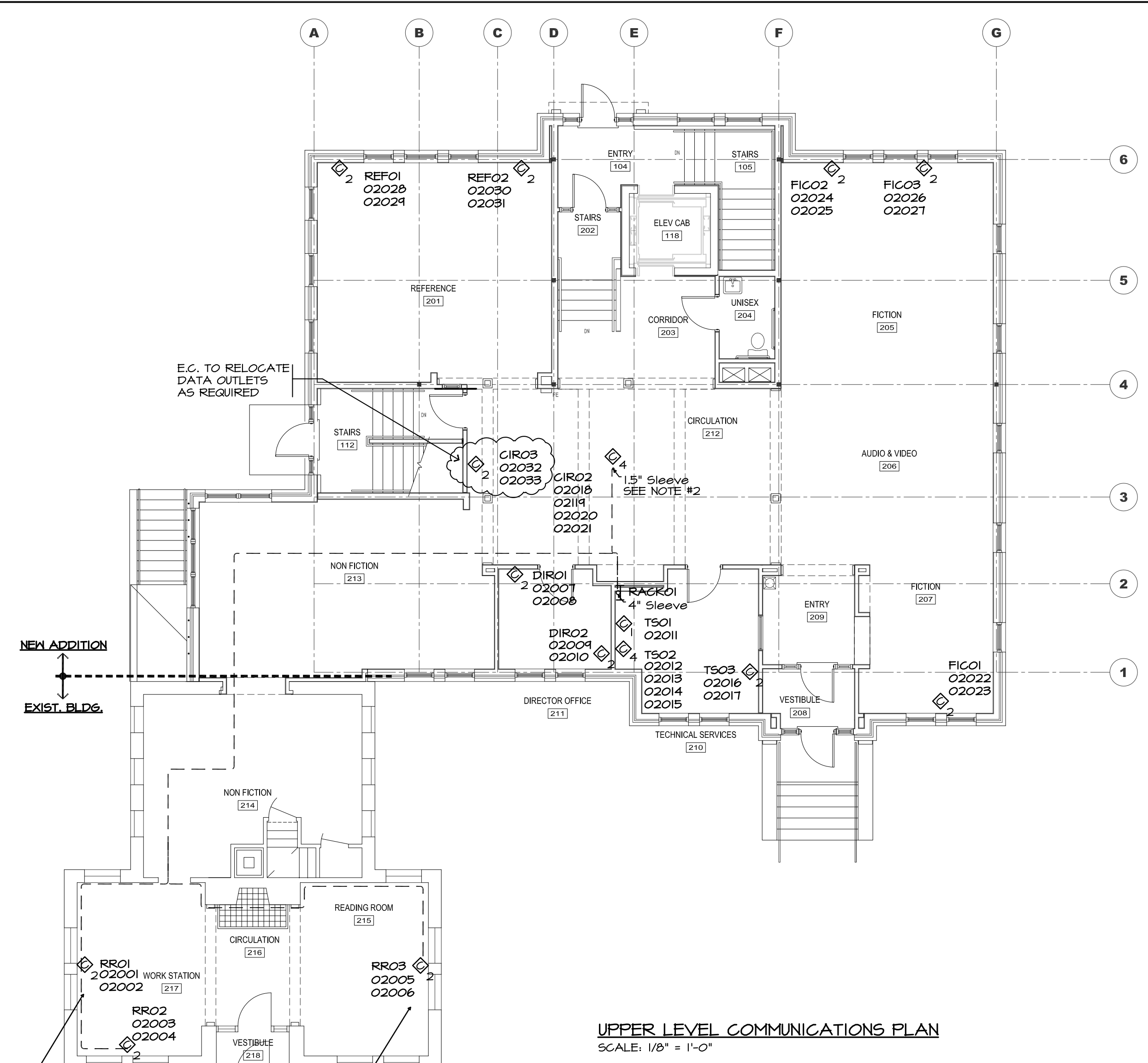
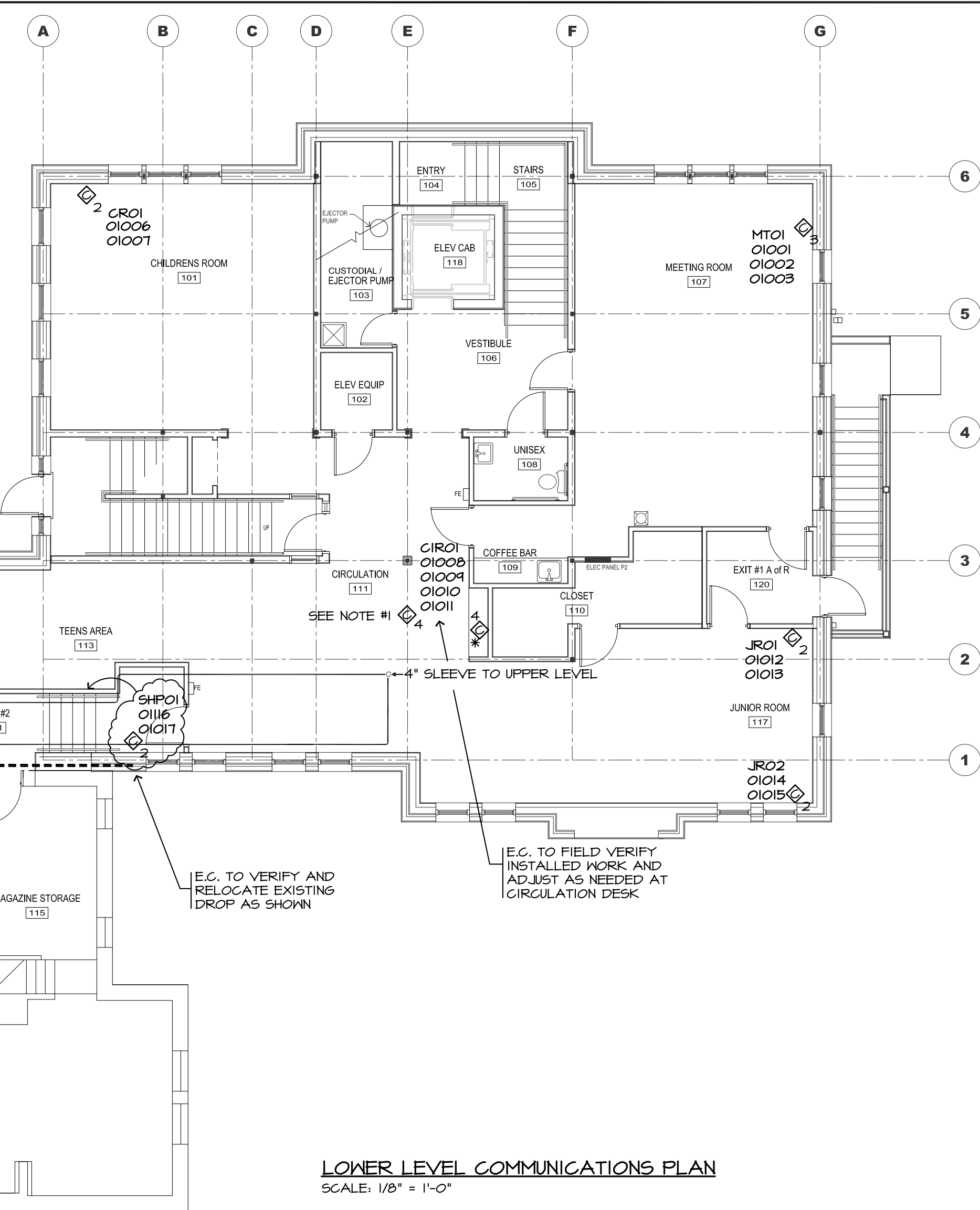
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- LEGEND**
- Enhanced CAT 5e copper 4pr. UTP cable routed in ceiling on this floor.
  - Enhanced CAT 5e copper 4pr. UTP cables routed in the floor below.
  - CAT 5 OSP 4PR/24AWG outdoor duct cable for telephone service.
  - R654 COAX
- TERMINATION**
- Termination for (1) R654 coax cable terminated in a single-gang 1-port wall plate.
  - Termination for (2) Enhanced Cat 5e copper cables terminated in Cat 5e T-568A jacks mounted in a single-gang two port wall plate.
  - Termination for (3) R654 coax cable terminated in a F-type coupler and (2) Enhanced Cat 5e copper cables terminated in Cat 5e T-568A jacks and mounted in a single-gang 3-port wall plate.
  - Termination for (4) Enhanced Cat 5e copper cables terminated in Cat 5e T-568A jacks mounted in a single-gang four port wall plate.
- CABLE NUMBERING**
- Sequentially Numbered Drops
  - Floor Number
- DROP NUMBERING**
- Drop # in area
  - Room Name (A-B)

- MATERIALS LIST**
- 4000 Ft. Mohawk/CDT Megalan 400 Enhanced Cat. 5e non-plenum, blue #H55484
  - 130 Ft. Mohawk/CDT Megalan 400 LAN-Trak OSP 4 pr. 24 AWG Outdoor Aerial/Duct #H57561
  - 400 Ft. R654, 75 ohm coax
  - 2 bags Hubbell HDSE Series Cat. 5e Jacks, T568A, Electric Ivory #HDSEA2 25 per bag
  - 3 Hubbell F-type Coupler Bulkhead F/F, Electrical Ivory #5FFEX
  - 16 Hubbell IFF plates, single-gang, 2-port, Electrical Ivory #IFFI2E1
  - 3 Hubbell IFF plates, single-gang, 4-port, Electrical Ivory #IFFI4E1
  - 2 Hubbell IFF plates, single-gang, 3-port, Electrical Ivory #IFFI3E1
  - 1 Hubbell IFF plates, single-gang, 1-port, Electrical Ivory #IFFI1E1
  - 1 INNOdata, EZ Mount Secur-A-shelf 22"x18"x13"H Phone 888-334-3930
  - 1 INNOdata EZ Mount Network Shelf, hold 48 pos Patch Panel, shelf for ethernet switch and opt. power strip.
  - 1 Hubbell SPEEDGAIN Cat. 5e Patch Panel, 48 port, T568A #PSE48B1E
  - 1 Hubbell Cat. 5e Front Access Panel, 12 position T568A #PSE12AF
  - 12 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 3' length, blue #PCSEPB03
  - 6 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 3' length, red #PCSEPR03
  - 12 Hubbell SPEEDGAIN Xcelerator Cat. 5e Patch Cords 12' length, blue #PCSEPB12
  - 1 bag Hubbell Color Code Icons (10) color blue, #IBLU50
  - 1 bag Hubbell Color Code Icons (10) color red, #IBRED50
  - 3 12' R654 coax patch cords with F-type Connectors
  - #6AWG grounding wire for rack.
  - 212 Small wrap around cable labels Brady DAT 35-242-10 Any other hardware required, ex. J brackets, beam clamps, non-metallic raceway, additional F-type coax connectors, 4 port CATV splitter, etc.

- DRAWING NOTES:**
- A 1" CONDUIT IS NEEDED TO PROVIDE A PATH TO THE CIRCULATION COUNTER. INSTALL IN CONCRETE FLOOR AND STUB UP IN WALL ABOVE DROP CEILING AND FLUSH WITH FLOOR UNDER FRONT EDGE OF COUNTER.
  - A 1.5" SLEEVE IS NEEDED IN FLOOR UNDER THE FRONT EDGE OF THE CIRCULATION COUNTER TO PROVIDE A PATH FOR DATA CABLES.
  - CABLES FOR CIR02 DROP LOCATION WILL BE RUN FROM THE PANEL, DOWN THROUGH THE 4" SLEEVE, ABOVE THE DROP CEILING ON THE LOWER LEVEL, UP THROUGH THE 1.5" SLEEVE AND INTO THE COUNTER.
  - CABLES FOR DROPS RR01-RR03 WILL HAVE TO BE ROUTED THROUGH THE 4" SLEEVE AND ABOVE THE DROP CEILING ON THE LOWER LEVEL AND INTO THE EXISTING BUILDING AND UP THROUGH THE FLOOR. SINCE THE EXISTING BUILDING HAS SHEETROCK WALLS AND CEILINGS, HUBBELL NON-METALLIC SURFACE RACEWAY CAN BE USED.
  - TO MINIMIZE CUSTOMER TELEPHONE OUTAGE, IT IS SUGGESTED THAT THE CABLE TO THE NID BE HOOKED UP AFTER THE REST OF THE INSTALLATION IS INSTALLED AND TESTED PRIOR TO REMOVING THE EXISTING TELEPHONE CABLES AND JACKS AND CONNECTING TO THE NID.
  - THE CATV COAX CABLE CAN BE ROUTED THE SAME AS THE TELEPHONE CABLE SHOWN ON THE DRAWING FOR THE LOWER LEVEL.
  - RED ICONS ARE FOR JACKS THAT ARE PATCHED TO PANEL 2 FOR VOICE AND BLUE ICONS ARE FOR JACKS THAT ARE PATCHED TO PANEL 1 FOR 100-BASE-T ETHERNET

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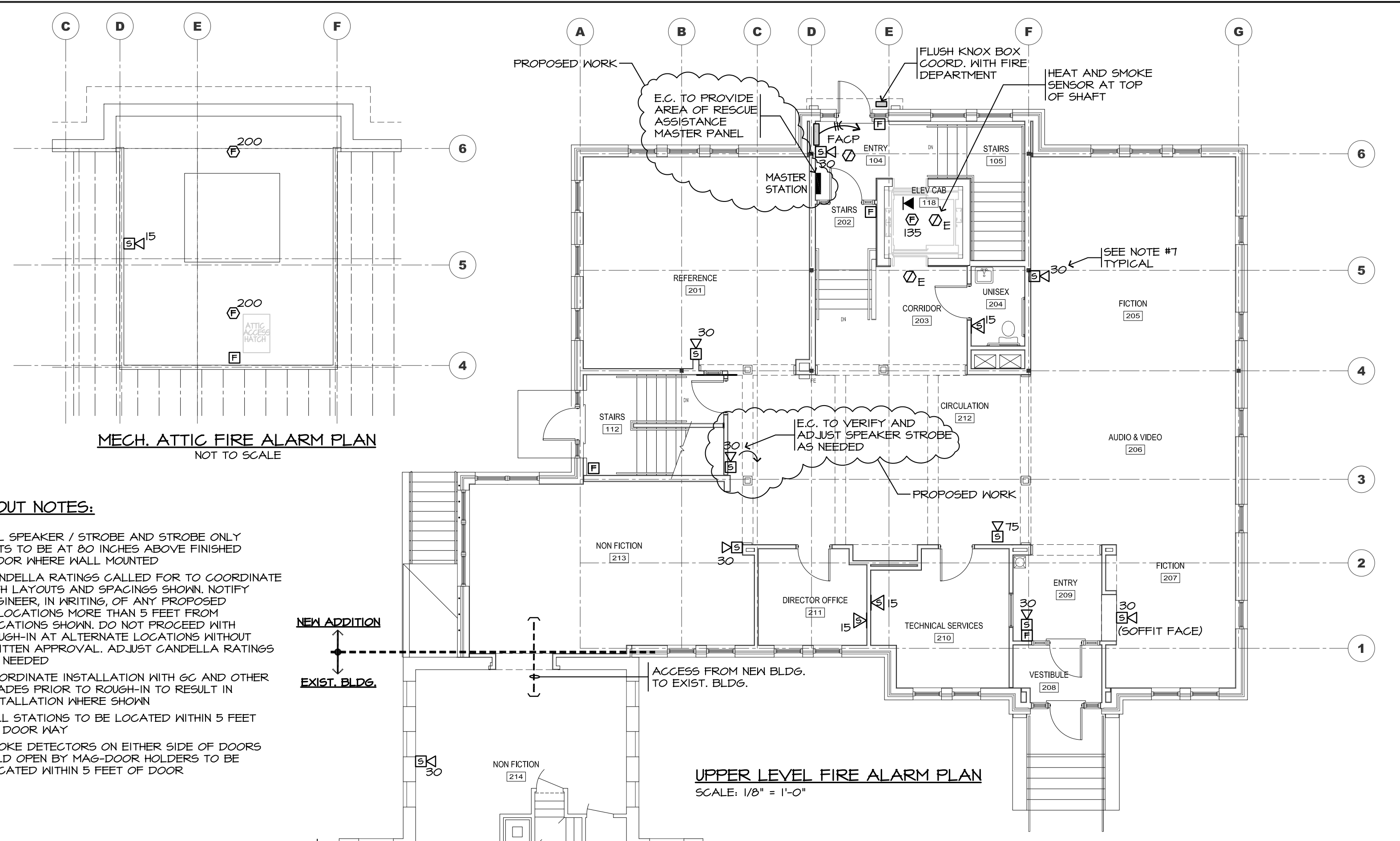
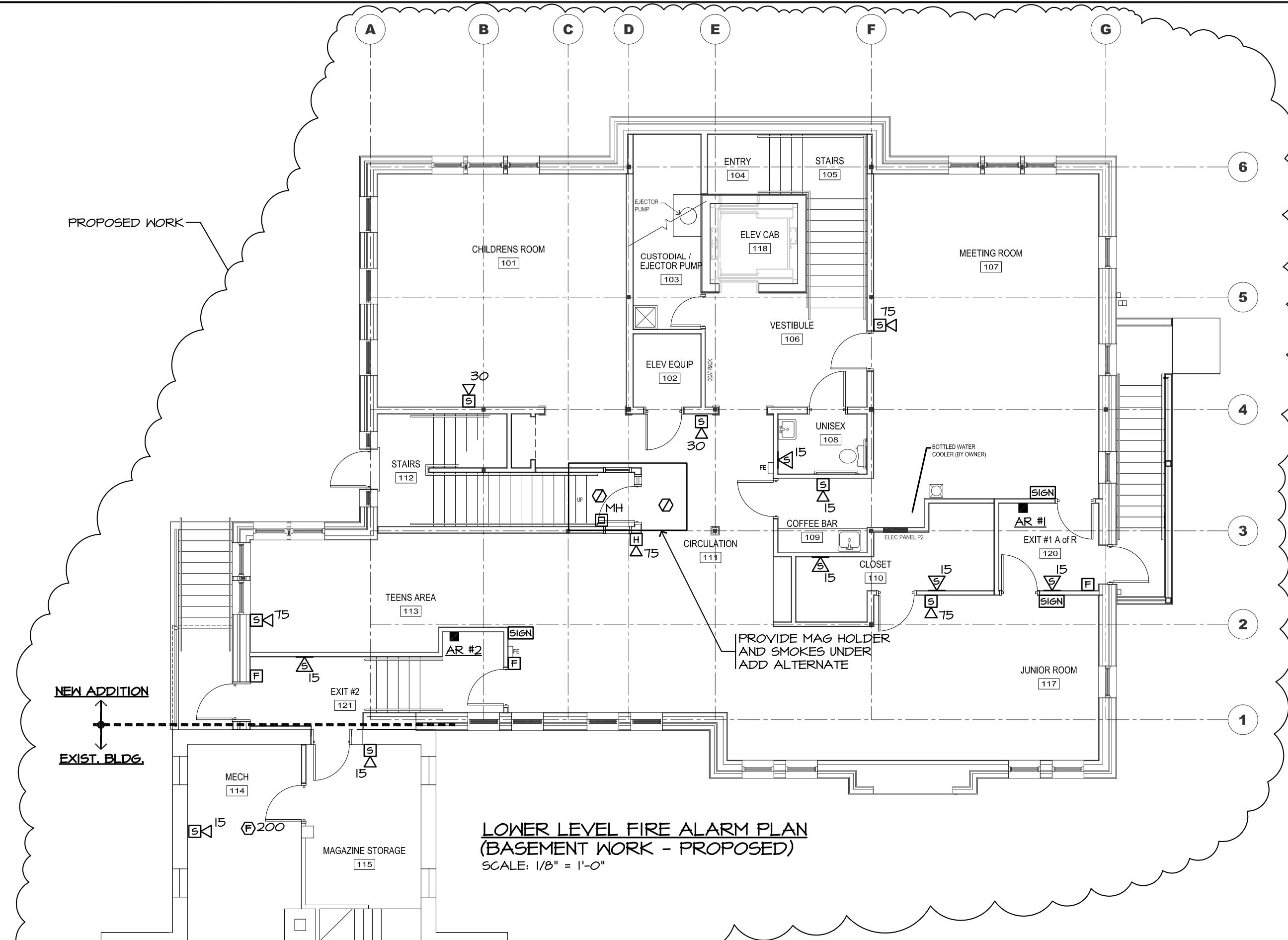
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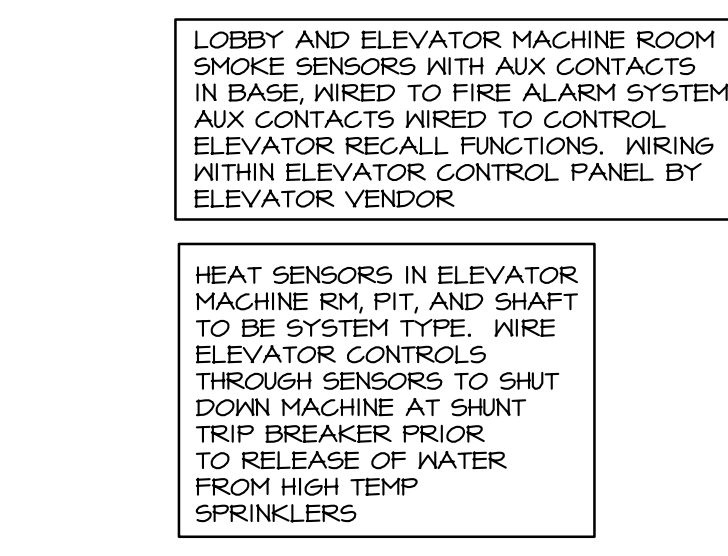
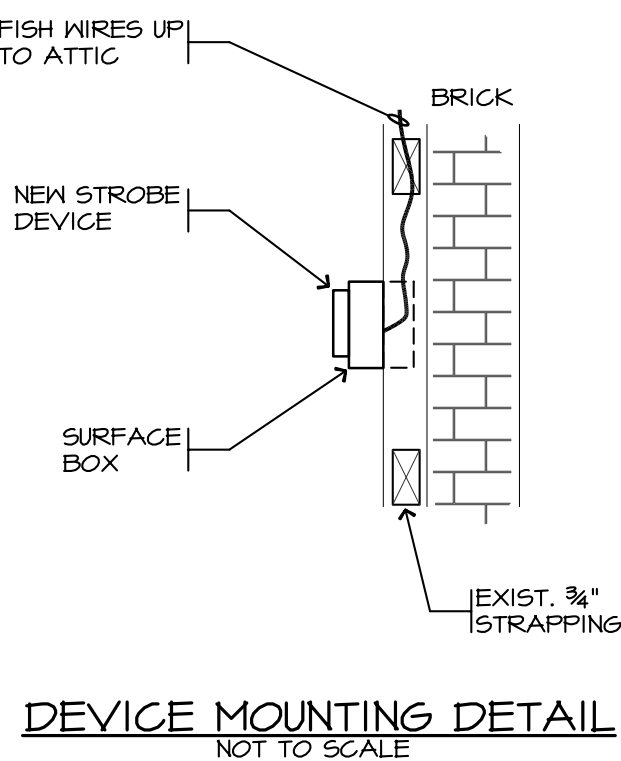
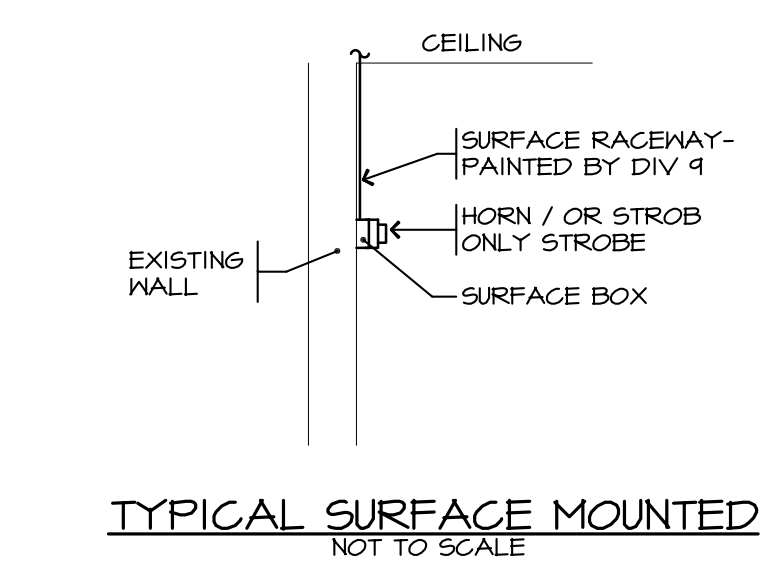
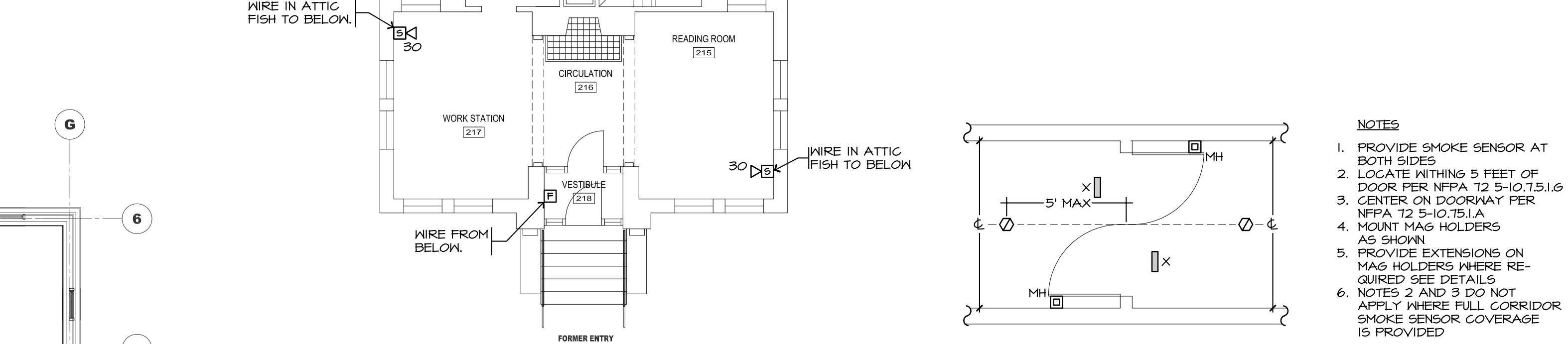
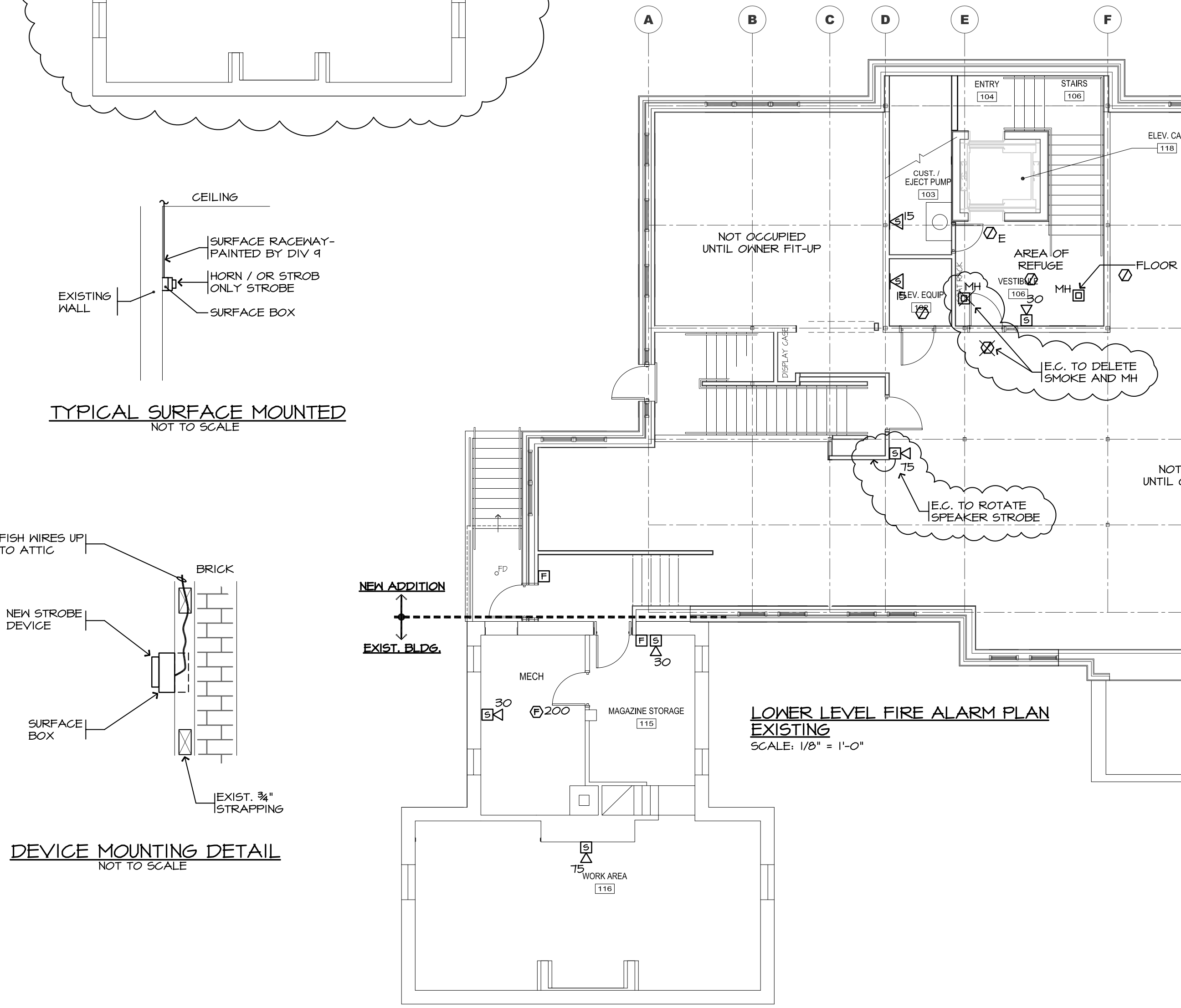
**PHILIP READ MEMORIAL LIBRARY**  
1088 ROUTE 12A  
PLAINFIELD, NEW HAMPSHIRE  
FIRE ALARM PLANS

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**LAYOUT NOTES:**

1. ALL SPEAKER / STROBE AND STROBE ONLY UNITS TO BE AT 80 INCHES ABOVE FINISHED FLOOR WHERE WALL MOUNTED
2. CANDELLA RATINGS CALLED FOR TO COORDINATE WITH LAYOUTS AND SPACINGS SHOWN. NOTIFY ENGINEER, IN WRITING, OF ANY PROPOSED RELOCATIONS MORE THAN 5 FEET FROM LOCATIONS SHOWN. DO NOT PROCEED WITH ROUGH-IN AT ALTERNATE LOCATIONS WITHOUT WRITTEN APPROVAL. ADJUST CANDELLA RATINGS AS NEEDED
3. COORDINATE INSTALLATION WITH GC AND OTHER TRADES PRIOR TO ROUGH-IN TO RESULT IN INSTALLATION WHERE SHOWN
4. FULL STATIONS TO BE LOCATED WITHIN 5 FEET OF DOOR WAY
5. SMOKE DETECTORS ON EITHER SIDE OF DOORS HELD OPEN BY MAG-DOOR HOLDERS TO BE LOCATED WITHIN 5 FEET OF DOOR



- NOTES**
1. PROVIDE SMOKE SENSOR AT BOTH SIDES
  2. LOCATE WITHIN 5 FEET OF DOOR PER NFPA T2 5-10.7.5.1.6
  3. CENTER ON DOORWAY PER NFPA T2 5-10.7.5.1.A
  4. MOUNT MAG HOLDERS AS SHOWN
  5. PROVIDE EXTENSIONS ON MAG HOLDERS WHERE REQUIRED SEE DETAILS
  6. NOTES 2 AND 3 DO NOT APPLY WHERE FULL CORRIDOR SMOKE SENSOR COVERAGE IS PROVIDED

**CORRIDOR FIRE / SMOKE DOORS MAG HOLDER / DETECTOR DETAIL**  
NOT TO SCALE

**AREA OF RESCUE ASSISTANCE SYSTEM NOTES:**

1. E.G. TO PROVIDE COMPLETE.
2. E.G. TO PROVIDE ENGRAVED/ADA SIGNS.
3. CONFIRM MASTER STATION LOCATION ADJACENT TO F.A. ANNUNCIATOR WITH FIRE DEPARTMENT PRIOR TO ROUGH-IN.
4. COMPONENTS BASED ON TEKTRON.
5. SUBMIT ALTERNATE MANUFACTURER FOR CONSIDERATION.

**GENERAL FIRE ALARM NOTES:**

1. MANUAL SYSTEM WITH DUCT SMOKE DETECTORS UNITS TO BE AT 80 INCHES ABOVE FINISHED FLOOR
2. DIALLER TO COMMUNICATOR TO CONTACT FIRE DEPT
3. HARDWIRED, NON-ADDRESSIBLE SYSTEM
4. VOICE ANNUNCIATION FOR LIBRARY AS PLACE OF ASSEMBLY
5. MAIN PANEL @ ENTRY
6. FLUSH KEY "KNOX BOX" AT EXTERIOR
7. REFER TO SHEET E0-0 FOR DEVICE MOUNTING HEIGHTS
8. DIALLER TO CONNECT TO HANOVER FIRE DEPARTMENT.
9. PROVIDE CUT-OFF LINE FOR ELEVATOR.

**NOTICE**  
THIS DRAWING SHALL BE CONSIDERED A PRELIMINARY DRAWING FOR THE PURPOSES OF REVIEW, COMMENT OR BUDGET PRICING UNTIL INDICATED OTHERWISE. ANY CHANGES TO THE DRAWING SHALL BE INDICATED BY A REVISION TABLE.  
Released for Bidding  
Released for Construction

DRAWING FILE: S:\2010\1021\3\Drawings\1021\_354.dwg PLOTTED: Jun 10 2011 12:52pm BY: mddy