

MARQUETTE MANOR APARTMENTS

INTERIOR & EXTERIOR IMPROVEMENTS

1999 SUTTER AVENUE, CINCINNATI, 45225

DRAWING LIST

| NUMBER | DESCRIPTION | NUMBER | DESCRIPTION |
|---------------------|--|--------|-------------------------------------|
| 01 | TITLE AND CODE DRAWINGS | M1.03 | TYPICAL FLOORS 2-15 MECHANICAL PLAN |
| G0.01 | COVER SHEET | M1.04 | PENTHOUSE MECHANICAL PLAN |
| G0.02 | CODE DATA & LIFE SAFETY | M2.01 | TYPICAL UNIT MECHANICAL PLAN |
| G0.03 | ACCESSIBILITY STANDARDS | | |
| G0.04 | FIRESTOPPING DETAILS - WALLS | | |
| G0.05 | FIRESTOPPING DETAILS - WALLS | | |
| G0.06 | FIRESTOPPING DETAILS - WALLS | | |
| G0.07 | FIRESTOPPING DETAILS - WALLS | | |
| G0.08 | FIRESTOPPING DETAILS - FLOORS | | |
| G0.09 | FIRESTOPPING DETAILS - FLOORS | | |
| G0.10 | FIRESTOPPING DETAILS - FLOORS | | |
| G0.11 | FIRESTOPPING DETAILS - FLOORS | | |
| 02 | SITE PLANS | | |
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| AS.02 | PROPOSED SITE PLAN | | |
| AS.03 | ENLARGED SITE PLAN - NORTH PARKING LOT | | |
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| 03 | ARCHITECTURAL DEMOLITION DRAWINGS | | |
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| A2.01 | EXTERIOR ELEVATIONS - NORTH AND EAST | | |
| A2.02 | EXTERIOR ELEVATIONS - SOUTH AND WEST | | |
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| A3.02 | BUILDING SECTION | | |
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| M0.02 | MECHANICAL SCHEDULES & DETAILS | | |
| M1.01 | BASEMENT MECHANICAL PLAN | | |
| M1.02 | GROUND FLOOR MECHANICAL PLAN | | |

GENERAL NOTES

- GENERAL**
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL AND STATE BUILDING CODES, FIRE SAFETY CODES AND REGULATIONS, BUT NOT LIMITED TO, THE OHIO BUILDING CODE (OBC), ICC ANSI 117.1 ACCESSIBLE AND USABLE BUILDING AND FACILITIES AND FAIR HOUSING ACT GUIDELINES. ANY CONFLICTS BETWEEN THE WORK INDICATED WITHIN THESE DOCUMENTS AND RELATED CODES OR REGULATIONS NOTED BY THE CONTRACTOR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
 - PROVIDE MEANS NECESSARY TO PROTECT THE STRUCTURE IN ALL RESPECTS FROM THE WEATHER, BUILDING HAZARDS, UNNECESSARY INTRUSIONS, AND FROM DUST, DIRT AND DEBRIS.
 - MAKE ARRANGEMENTS IN 72 HOURS MINIMUM IN ADVANCE WITH THE OWNER FOR ANY INTERRUPTIONS OF UTILITY SERVICE.
 - EACH CONTRACTOR AND VENDOR SHALL INSPECT THE SITE & BECOME FAMILIAR WITH ALL CONDITIONS AND CLEARANCES PRIOR TO SUBMITTING A PROPOSAL.
 - ARCHITECT TO SUBMIT FOR GENERAL PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
 - ALL WORK SHALL BE COMPLETED IN A FIRST CLASS MANNER TO BETTER THAN ACCEPTED INDUSTRY STANDARDS.
 - SHOULD ANY OF THE DETAILED INSTRUCTIONS ON THE DRAWINGS CONFLICT WITH THE NOTES OR SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL APPLY. ANY SUCH CONFLICT SHALL BE REPORTED TO THE ARCHITECT AS A FORMAL RFI (REQUEST FOR INFORMATION) AS INDICATED IN THE SPECIFICATIONS.
 - ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE STRUCTURE UNLESS SPECIFICALLY NOTED OTHERWISE.
 - THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS BEFORE PROCEEDING WITH THE AFFECTED WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY.
 - EACH CONTRACTOR SHALL COORDINATE ARCHITECTURAL DRAWINGS WITH THE PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL DRAWINGS BEFORE PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY IN A FORMAL RFI (REQUEST FOR INFORMATION) AS INDICATED IN THE SPECIFICATIONS.
 - THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" MEANS TO FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL.
 - ALL ARRANGEMENTS FOR CONSTRUCTION PERSONNEL ENTERING THE SITE DURING WORK HOURS, DELIVERY OF MATERIALS, REMOVAL OF DEBRIS, PARKING, ETC. SHOULD BE MADE WITH THE GENERAL CONTRACTOR.
 - ALL CONTRACTORS AND SUBCONTRACTORS FOR THE WORK OF THIS CONTRACT SHALL BE PROPERLY LICENSED AND REGISTERED IN ACCORDANCE WITH THE REGULATIONS OF LOCAL AND STATE CODES.
 - ALL DRAWINGS AND SPECIFICATIONS PREPARED AS PART OF THIS COMMISSION ARE THE PROPERTY OF LDA ARCHITECTS, INC. AND WILL NOT BE TRANSFERRED OR USED ON ANY OTHER PROJECT WITHOUT WRITTEN AGREEMENT.
 - THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK BY THE GENERAL CONTRACTOR. ALL AREAS OF THE PROJECT SHALL BE FINISHED AND READY FOR OCCUPANCY AND INCLUDE SUCH ITEMS AS HARDWARE, ACCESSORIES, PAINTING, AND ETC. WHETHER SPECIFIED OR NOT.
 - AT ALL TIMES WHEN WORK IS IN PROGRESS, A REPRESENTATIVE OF THE CONTRACTOR OR SUB-CONTRACTOR SHALL BE ON THE SITE AND AUTHORIZED TO ANSWER QUESTIONS OR RECEIVE INSTRUCTIONS FROM THE OWNER OR ARCHITECT.
 - THE CONTRACTOR AND EACH SUBCONTRACTOR SHALL PROVIDE A COPY OF PROOF OF INSURANCE TO THE OWNER PRIOR TO THE COMMENCEMENT OF THE WORK.
 - THE CONTRACTOR SHALL FORWARD TO THE OWNER ALL APPLICABLE WARRANTIES, GUARANTEES, ETC. AS A CONDITION FOR FINAL PAYMENT.
 - THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A MINIMUM PERIOD OF ONE YEAR OR LONGER AS INDICATED IN DRAWINGS AND SPECIFICATIONS FOLLOWING COMPLETION OF ALL WORK AND THAT ALL DEFECTS ARISING WITHIN THIS PERIOD OF TIME SHALL BE CORRECTED, REPAIRED, OR REPLACED WITHIN 30 DAYS OF NOTIFICATION OF SUCH DEFECTS BY OWNER.
 - THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR REVIEWING, COORDINATING, AND COMPLYING WITH THE FULL SET OF DRAWINGS, SPECIFICATIONS, AND ADDENDA.
 - THE APPLICABLE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR THE VERIFICATION AND LOCATION OF UNDERGROUND UTILITIES, FACILITIES, AND EQUIPMENT. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY PROTECTION SERVICE AS REQUIRED IN ADVANCE OF THE COMMENCEMENT OF UNDERGROUND UTILITIES WORK.
 - ALL PRODUCTS SPECIFIED IN THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE THE BASIS OF DESIGN. OTHER PRODUCTS THAT MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF THE BASIS OF DESIGN ARE ACCEPTABLE IF DOCUMENTATION IS PROVIDED SHOWING COMPLIANCE.



PROJECT DIRECTORY

- OWNER:
CINCINNATI METROPOLITAN HOUSING AUTHORITY
1627 WESTERN AVENUE
CINCINNATI, OHIO 45214
PHONE: (513) 721-4580
- ARCHITECT:
LDA ARCHITECTS, INC.
5000 EUCLID AVENUE
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CLEVELAND, OHIO 44113
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- STRUCTURAL ENGINEER:
SHAEFER
537 EAST PETE ROSE WAY, SUITE 400
CINCINNATI, OHIO 45202
PHONE: (513) 542-3300

PROJECT INFORMATION

PROJECT NAME: MARQUETTE MANOR
ADDRESS: 1999 SUTTER AVE., CINCINNATI, OH 45225

HEIGHT: 2 STORY PENTHOUSE & 15 STORY APARTMENT BUILDING
BUILDING COUNT: 1 TOTAL
UNIT COUNT: 140 UNITS
UNIT MIX: 126 (1BR), 14 (1BR ADA)

BUILDING INFORMATION:

| UNIT TYPE(S) | *UNIT AREA | QUANTITY | **ACCESSIBLE UNIT(S) | A/V UNIT(S) |
|--------------|------------|----------|----------------------|-------------|
| TYPE: 1A | 548 SF | 84 | 0 | 3 |
| TYPE: 1B | 593 SF | 42 | 0 | 0 |
| TYPE: 1C | 1024 SF | 14 | 14 | 0 |
| TOTAL: | 85,274 SF | 140 | 14 | 3 |

***GROSS SQUARE FOOTAGE:

| | |
|--------------------|-----------------------------|
| BASEMENT= | 3,539 |
| FIRST FLOOR= | 5,705 |
| SECOND- FIFTEEN' | 8,656 PER FLOOR X 14 FLOORS |
| PENTHOUSE LEVEL 1= | 905 |
| PENTHOUSE LEVEL 2= | 905 |
| TOTAL: | 132,238 SF |

*UNIT AREAS ARE BASED ON BOMA STANDARD METHOD A (NET) LEASED UNITS
*** PROJECT GROSS AREA BASED ON BOMA STANDARD PLAN A GROSS AREA

ACCESSIBLE UNIT LOCATIONS: #205, #305, #405, #505, #605, #705 #805, #905, #1005, #1105, #1205, #1305, #1405, #1505
AUDIO / VISUAL UNIT LOCATIONS: #309, #709, #1409

SITE INFORMATION:

LOT SIZE: 4.38 ACRES
PARCEL #: 020600010234
CURRENT USE: R-2
PROPOSED USE: R-2

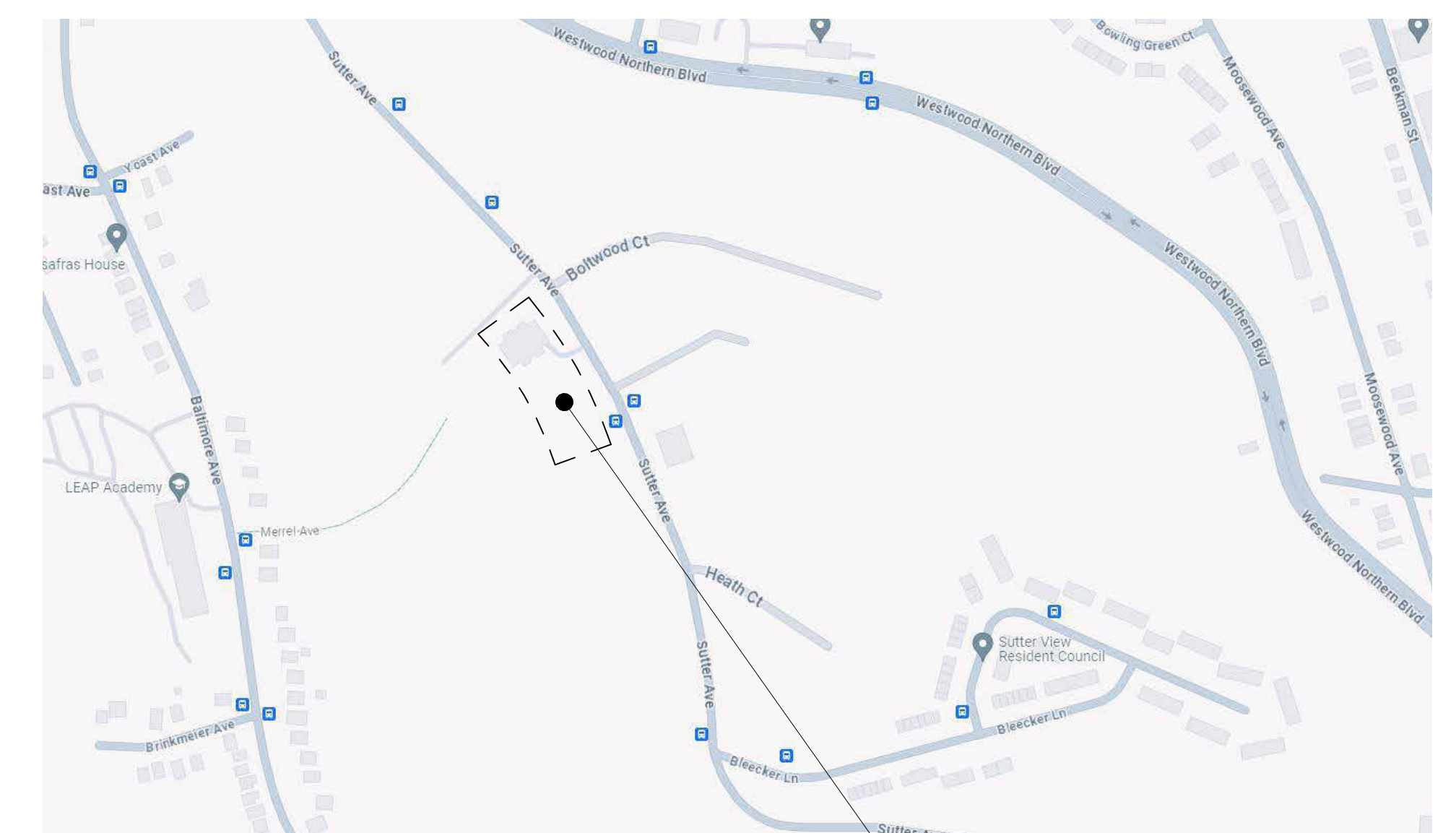
EXISTING PARKING:
STANDARD PARKING SPACES: 30
ACCESSIBLE PARKING SPACES: 8

PROPOSED PARKING: (SEPERATE PERMIT)
STANDARD PARKING SPACES: 88
ACCESSIBLE PARKING SPACES: 4

TOTAL PARKING SPACES: 38

TOTAL PARKING SPACES: 92

PROJECT LOCATION

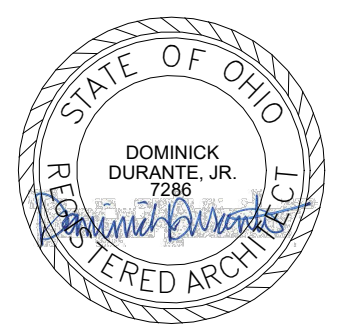


1999 SUTTER AVE,
CINCINNATI, OH 45225



The Offices at the Agora
5000 Euclid Avenue, Suite 104
Cleveland, OH 44103
LDAarchitecture.com
216.932.1890

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



DOMINICK DURANTE, JR.
LICENSE 07396
EXPIRATION 10/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

COVER SHEET

G0.01

CONSTRUCTION CODE SUMMARY

APPLICABLE CODES:

- 2024 OHIO EXISTING BUILDING CODE (OBC) WITH ALL CURRENT AMENDMENTS/UPDATES
- 2024 OHIO BUILDING CODE (OBC) WITH ALL CURRENT AMENDMENTS/UPDATES
- 2024 OHIO MECHANICAL CODE (OMC)
- 2024 OHIO PLUMBING CODE (OPC)
- 2024 NATIONAL ELECTRICAL CODE - NFPA 70
- ICC/ANSI A117.1-2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- ACCESSIBLE, UNIFORM FEDERAL ACCESSIBILITY GUIDELINES (UFAS)
- ASHRAE 90.1 2019
- ALL APPLICABLE LOCAL BUILDING CODES AND REGULATIONS

EXISTING CONSTRUCTION SUMMARY:

THE EXISTING STRUCTURE IS A CONCRETE SLAB ON GRADE WITH CONCRETE CAISSON FOOTINGS. THE EXTERIOR WALLS ARE A COMBINATION OF EXPOSED REINFORCED CONCRETE SPANDREL BEAMS AND CONCRETE COLUMNS WITH AREAS OF BRICK VENEER ON 4" CMU BACK-UP. THE FLOORS ARE 10" REINFORCED CONCRETE CAST-IN-PLACE SLABS.

FIRE PROTECTION:

EXISTING BUILDING IS FULLY SPRINKLERED AND HAS A WET STAND-PIPE SYSTEM.

EXISTING USE AND OCCUPANCY CLASSIFICATIONS:

PRIMARY USE(S):

THERE ARE NO CHANGES IN EXISTING USE GROUPS.

-RESIDENTIAL, R-2 (APARTMENTS)

SECONDARY USES: ACCESSORY SPACES INCLUDE THE FOLLOWING:

- BUSINESS, B (OFFICES)
- ASSEMBLY, A-3 (COMMUNITY AREAS)
- STORAGE, S

EXISTING CONSTRUCTION CLASSIFICATION:

TYPE IB

OBC TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:

- PRIMARY STRUCTURAL FRAME: 2 HR
- BEARING WALLS: EXTERIOR 2 HR, INTERIOR 2 HR
- NONBEARING WALLS AND PARTITIONS: EXTERIOR 0 HR, INTERIOR 0 HR
- FLOOR CONSTRUCTION: 2 HR
- ROOF CONSTRUCTION: 1 HR

APPLICABLE 2024 OHIO EXISTING BUILDING CODE MATERIAL:

OBC 301.3.1 PRESCRIPTIVE COMPLIANCE METHOD.

ALTERATIONS, ADDITIONS AND CHANGES OF OCCUPANCY COMPLYING WITH SECTIONS 302 THROUGH 309 AND CHAPTER 5 OF THIS CODE ARE TO BE CONSIDERED IN COMPLIANCE WITH THE PROVISIONS OF THIS CODE.

302.4 NEW AND REPLACEMENT MATERIALS.

EXCEPT AS OTHERWISE REQUIRED OR PERMITTED BY THIS CODE, MATERIALS PERMITTED BY THE APPLICABLE CODE FOR NEW CONSTRUCTION SHALL BE USED. LIKE MATERIALS SHALL BE PERMITTED FOR REPAIRS AND ALTERATIONS, PROVIDED THAT UNSAFE CONDITIONS ARE NOT CREATED. HAZARDOUS MATERIALS SHALL NOT BE USED WHERE THE CODE FOR NEW CONSTRUCTION WOULD NOT PERMIT THEIR USE IN BUILDINGS OF SIMILAR OCCUPANCY, PURPOSE AND LOCATION.

302.5 OCCUPANCY AND USE.

WHERE DETERMINING THE APPROPRIATE APPLICATION OF THE REFERENCED SECTIONS OF THIS CODE, THE OCCUPANCY AND USE OF A BUILDING SHALL BE DETERMINED IN ACCORDANCE WITH CHAPTER 3 OF THE BUILDING CODE. (SEE ABOVE)

503.1 GENERAL.

EXCEPT AS PROVIDED IN CHAPTER 3 OF THIS CODE OR THIS SECTION, ALTERATIONS TO ANY BUILDING, STRUCTURE, OR SYSTEM (EGRESS, FIRE PROTECTION, SMOKE CONTROL, MECHANICAL, PLUMBING, ETC.) ARE TO COMPLY WITH THE REQUIREMENTS OF THE CODE FOR NEW CONSTRUCTION ONLY TO THE EXTENT OF THE PROPOSED ALTERATION. PORTIONS OF THE STRUCTURE OR SYSTEM NOT ALTERED AND NOT AFFECTED BY THE ALTERATION ARE NOT REQUIRED TO COMPLY WITH THE CODE REQUIREMENTS FOR A NEW STRUCTURE. ALTERATIONS ARE TO BE SUCH THAT THE EXISTING BUILDING, STRUCTURE, OR SYSTEM IS NO LESS COMPLYING WITH THE PROVISIONS OF THIS CODE THAN THE EXISTING BUILDING OR STRUCTURE WAS PRIOR TO THE ALTERATION.

APPLICABLE 2024 OHIO BUILDING CODE MATERIAL:

OBC 603 COMBUSTIBLE MATERIAL IN TYPE I AND II CONSTRUCTION:

ALL NEW MATERIALS TO BE IN ACCORDANCE AND INSTALLED PER IBC SECTION 603.

OBC 708.3 FIRE RESISTANCE RATINGS FOR FIRE PARTITIONS BETWEEN DWELLING UNITS:

1 HR - FIRE PARTITION SEPARATION

OBC 711.2 FIRE RESISTANCE RATINGS FOR FLOORS BETWEEN DWELLING UNITS:

1 HR - FIRE RESISTANCE RATED CONSTRUCTION

OBC 713.3.1.2 THROUGH PENETRATION FIRESTOP SYSTEM:

THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.

OBC TABLE 803.9 INTERIOR WALL AND CEILING FINISH REQUIREMENTS:

- GROUP R-2:
- EXIT ENCLOSURES AND EXIT PASSAGEWAYS: CLASS B
- CORRIDORS: CLASS B
- ROOMS AND ENCLOSED SPACES: CLASS C

OBC TABLE 1020 CORRIDOR FIRE-RESISTANCE RATING OCCUPANCY, R, WITH SPRINKLER SYSTEM = 1/2 HOURS

SYMBOL LEGEND

- DOOR TAG
- KEYED NOTE - REFER TO KEY NOTE LEGEND
- DEMOLITION KEYED NOTE - REFER TO KEY NOTE LEGEND
- WINDOW TAG
- EXTERIOR ELEVATION SYMBOL
- EXTERIOR ELEVATION NUMBER
- SHEET ON WHICH EXTERIOR ELEVATION IS LOCATED
- WALL SECTION / DETAIL SYMBOL
- SECTION / DETAIL NUMBER
- SHEET ON WHICH SECTION / DETAIL IS LOCATED
- INTERIOR ELEVATION SYMBOL
- INTERIOR ELEVATION NUMBER
- SHEET ON WHICH INTERIOR ELEVATION IS LOCATED

ENERGY CODE REQUIREMENTS

APPLICABLE CODES / STANDARDS:

- 2017 OHIO ENERGY CODE
- OHFA LIMITED SCOPE REHABILITATION SUSTAINABILITY STANDARDS
- ASHRAE 90.1 2019

GENERAL: THE FOLLOWING REQUIREMENTS ARE ONLY REQUIRED IN ALTERATIONS AS DEFINED BY ASHRAE 90.1-2019 IN REPLACEMENTS TO A BUILDING OR ITS SYSTEMS. REPAIRS SHALL NOT CONSTITUTE AN ALTERATION.

3401.1 ENERGY CODE COMPLIANCE:

ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC 2012) / ASHRAE 90.1 - 2019

ASHRAE 90.1 - 2019:

BUILDING ENVELOPE REQUIREMENTS FOR ZONE 4A:

TABLE C402.2:

ROOF INSULATION = R-25 CONTINUOUS INSULATION

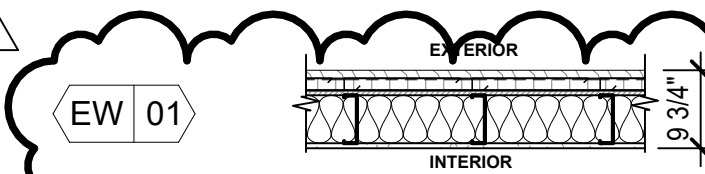
TABLE C402.3:

U-FACTOR:
FIXED FENESTRATION = 0.38
OPERABLE FENESTRATION = 0.45
ENTRANCE DOORS = 0.77
SHGC:
SHGC = 0.40

CONSTRUCTION TYPES AND ASSEMBLIES

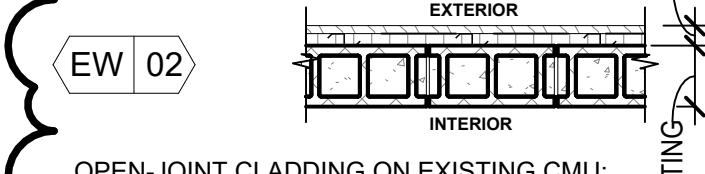
NEW EXTERIOR WALL TYPES:

- REFER TO COVER SHEET FOR ADDITIONAL FINISH AND DRYWALL REQUIREMENTS AT ALL NEW WALLS



EXTERIOR

- 1\"/>



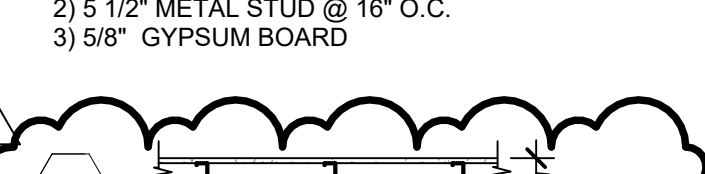
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- 1\"/>



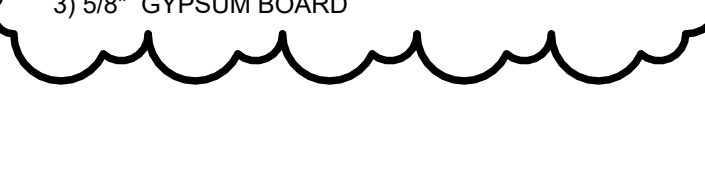
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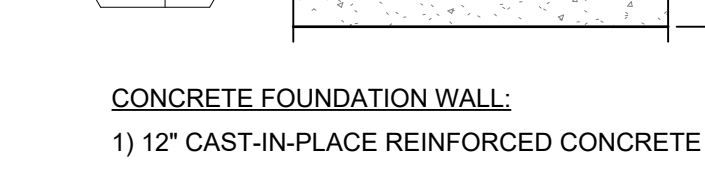
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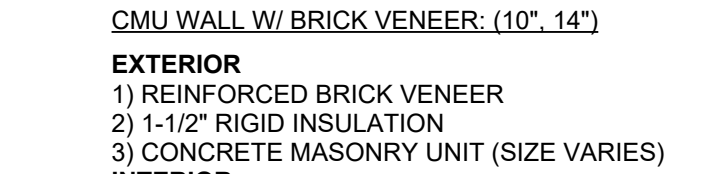
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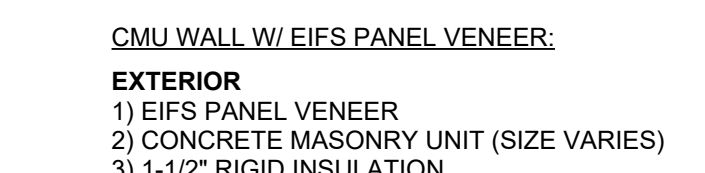
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- 1) 5/8\"/>



EXTERIOR

- 1) 5/8\"/>



EXTERIOR

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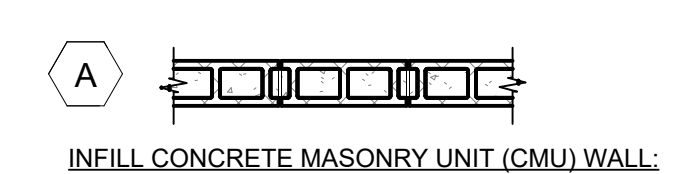


EXTERIOR

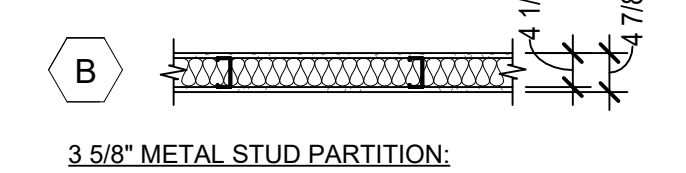
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NEW INTERIOR WALL TYPES:

- REFER TO COVER SHEET FOR ADDITIONAL FINISH AND DRYWALL REQUIREMENTS AT ALL NEW WALLS

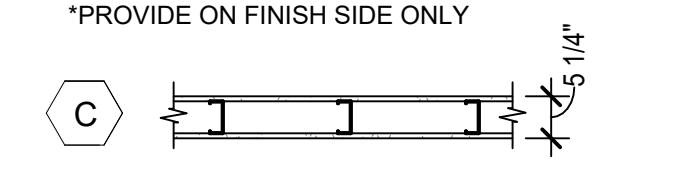


INFILL CONCRETE MASONRY UNIT (CMU) WALL (NON-RATED)



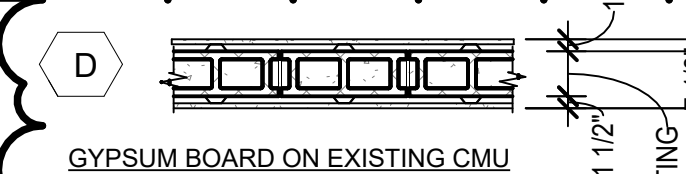
3-5/8\"/>

- 1) 5/8\"/>



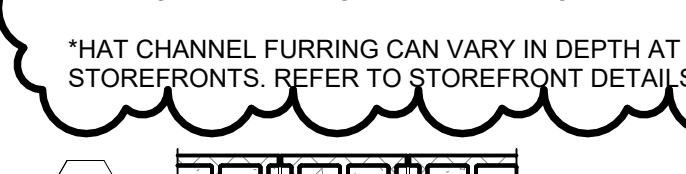
4\"/>

- 1) 5/8\"/>



6-3/4\"/>

- 1) EXISTING CMU WALL TO REMAIN
- 2) 7/8\"/>



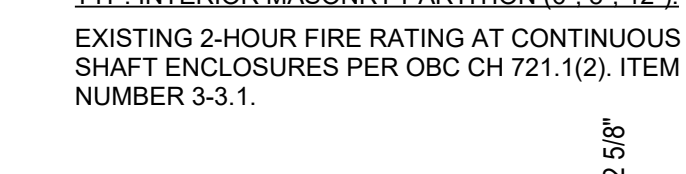
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- 1) 5/8\"/>



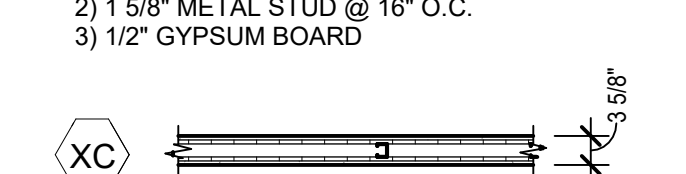
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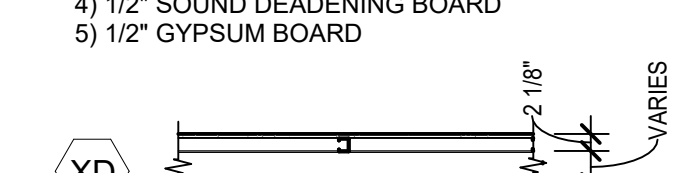
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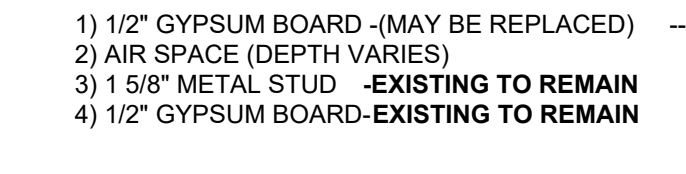
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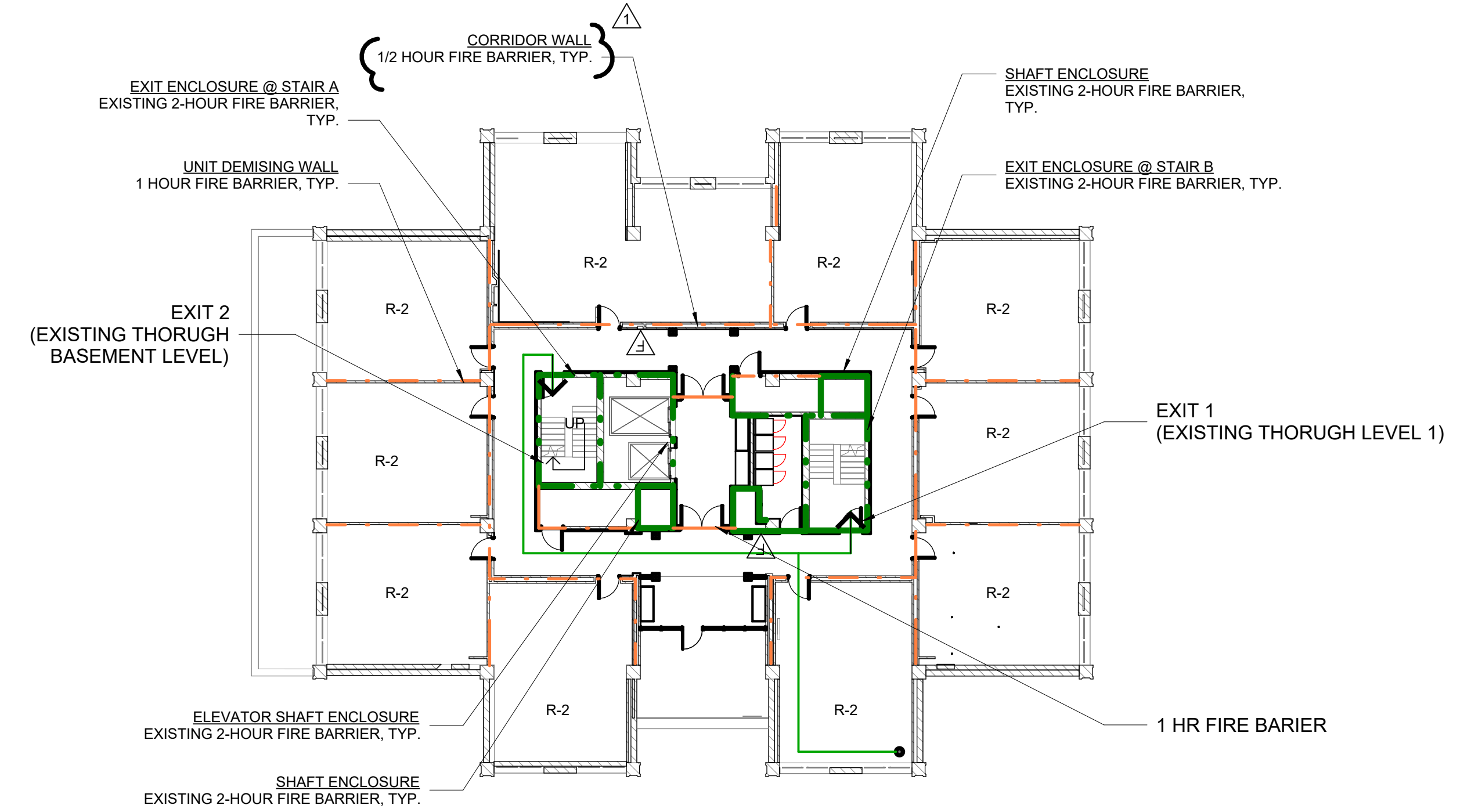
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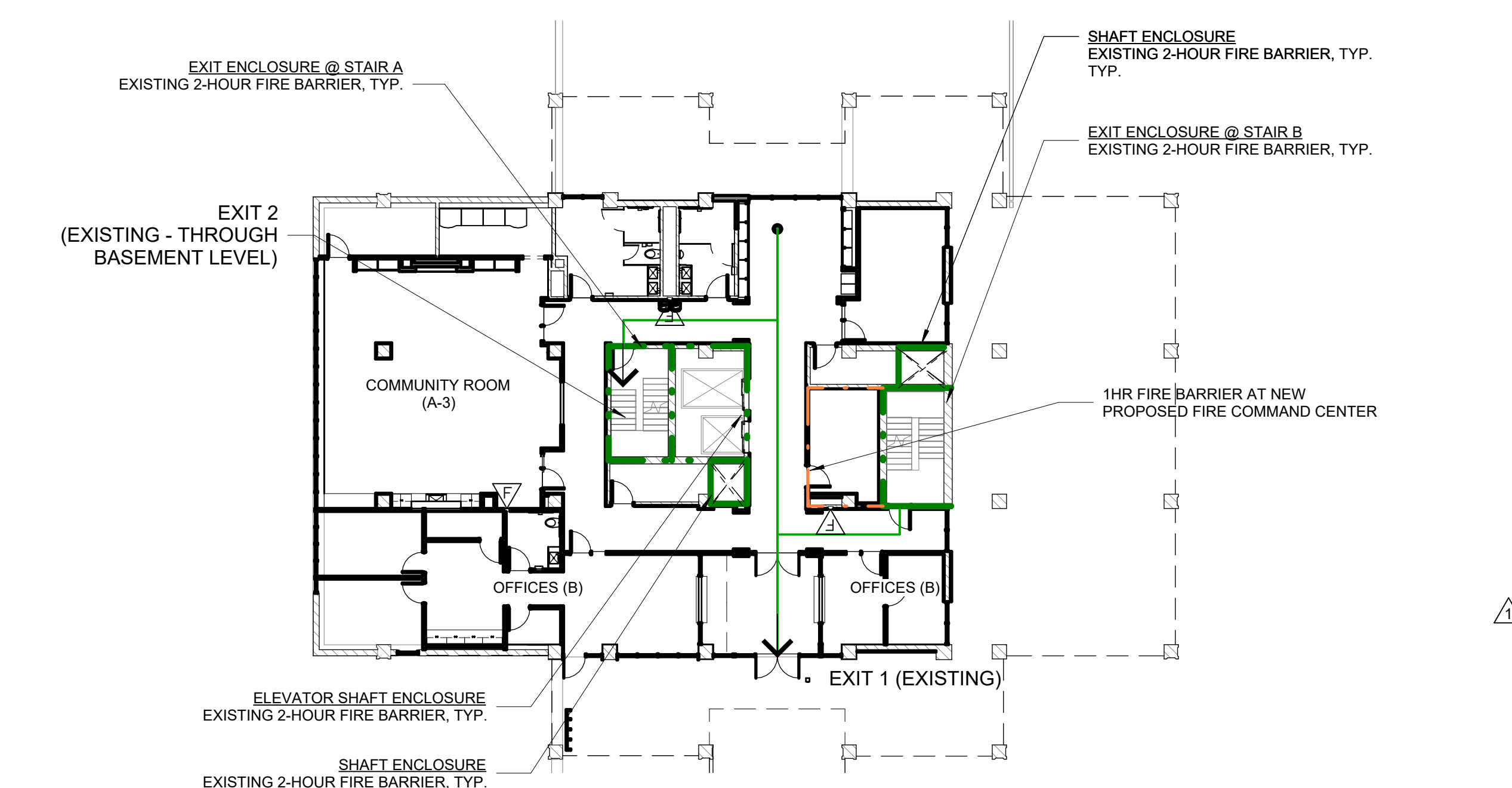


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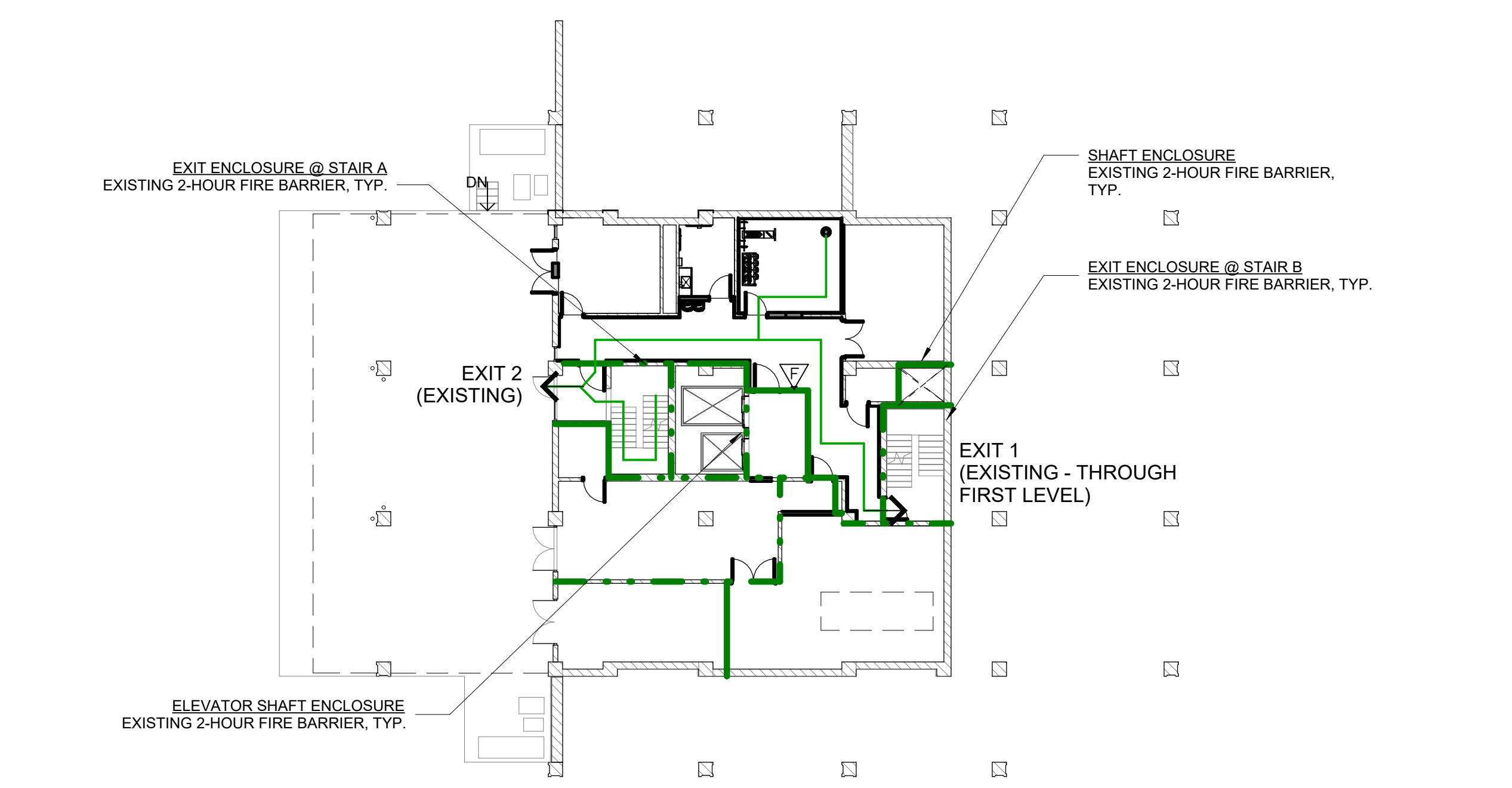
- 1) 10\"/>



3 LEVEL 2-15 - LIFE SAFETY
SCALE: 1/16\"/>



2 GROUND LEVEL - LIFE SAFETY
SCALE: 1/16\"/>



1 BASEMENT LEVEL LIFE SAFETY
SCALE: 1/16\"/>

- 1) 1/2\"/>



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| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

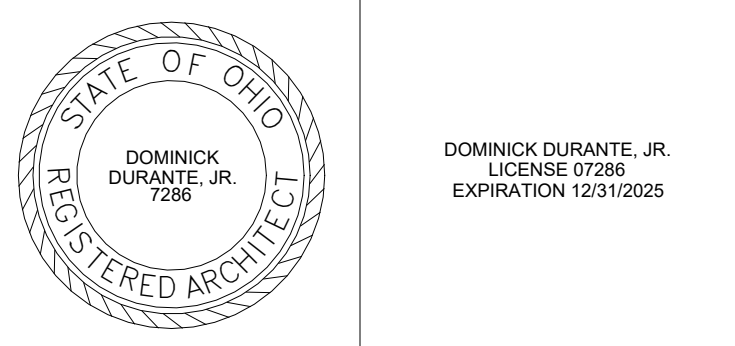
LIFE SAFETY PLAN LEGEND

- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- ACCESSIBLE PATH OF TRAVEL
- DIRECTION OF EGRESS
- FIRE EXTINGUISHER CABINET

GENERAL NOTES - WALL ASSEMBLIES

- THESE GENERAL NOTES APPLY TO ANY GYPSUM BOARD CALLED OUT IN WALL TYPES THAT APPLY TO THE BELOW DESCRIBED AREAS.
- PAPERLESS GYPSUM BOARD (PGB) MUST BE USED AT A MINIMUM IN THE FOLLOWING AREAS WHERE NEW GYPSUM BOARD IS TO BE PROVIDED:
 - BEHIND KITCHEN SINKS AND RESTROOM SINKS TO A HEIGHT OF 3' ABOVE BASE CABINET.
 - SHOWER WALLS WHERE PGB WILL NOT HAVE AN EXPOSED FINISH EXCEPT 6\"/>
- PAPER-FACED MOISTURE-RESISTANT GYPSUM BOARD MUST BE USED AT A MINIMUM IN THE FOLLOWING AREAS WHERE NEW GYPSUM BOARD IS BEING PROVIDED:
 - WITHIN 4 FEET IN HORIZONTALLY AND VERTICALLY OF ANY WATER SOURCE, EXCEPT DIRECTLY BEHIND SINKS, TUBS, SHOWER SURROUNDS, AND BEHIND TOILET.
 - BEHIND PUBLIC DRINKING FOUNTAINS WITHIN 4 FEET IN ANY DIRECTION BEHIND LAUNDRY (CLOTHES WASHING MACHINES, WATER HEATERS, WATER METERS, ETC.
- A PRODUCT THAT MEETS THE REQUIREMENTS OF BOTH PRODUCTS OUTLINED ABOVE MAY BE USED IF APPROVED BY ARCHITECT.
- ALL FIRE RATED WALLS / FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FLOOR/CEILING ASSEMBLY BELOW TO THE UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACES, SUCH AS THE SPACE ABOVE A SUSPENDED CEILING AND BEHIND SHOWERS AND TUBS.
- WALL TYPE PRIORITY: WHERE FIRE RATED ASSEMBLIES INTERSECT WITH NON RATED OR LESSER RATED ASSEMBLIES, THE HIGHEST RATED ASSEMBLY SHALL TAKE PRIORITY AND PROVIDE CONTINUITY OF THE REQUIRED RATING.
- PROVIDE SOUND ATTENUATION BATT INSULATION AT ALL NEW RESTROOM WALLS.
- WHERE DISSIMILAR METALS ARE IN CONTACT IN THE PROJECT, CONSIDER PROVIDING RUBBER SELF HEALING MEMBRANE BETWEEN THE TWO MATERIALS.
- LIFE SAFETY PLANS INDICATE CURRENT APPLICABLE CODE REQUIREMENTS FOR R2 OCCUPANCY. EXISTING NON-COMPLYING FIRE-RATED SEPARATIONS WILL NOT BE REQUIRED TO BE UPGRADED, BUT ANY NEW WALLS OR PATCHING WHERE FIRE SEPARATION IS REQUIRED BY THE CURRENT CODE WILL REQUIRE UPGRADE EXISTING CONSTRUCTION.

*THIS SHEET IS INTENDED TO BE PRINTED IN COLOR. BLACK AND WHITE PRINTS MAY NOT FULLY DEPICT INTENT.



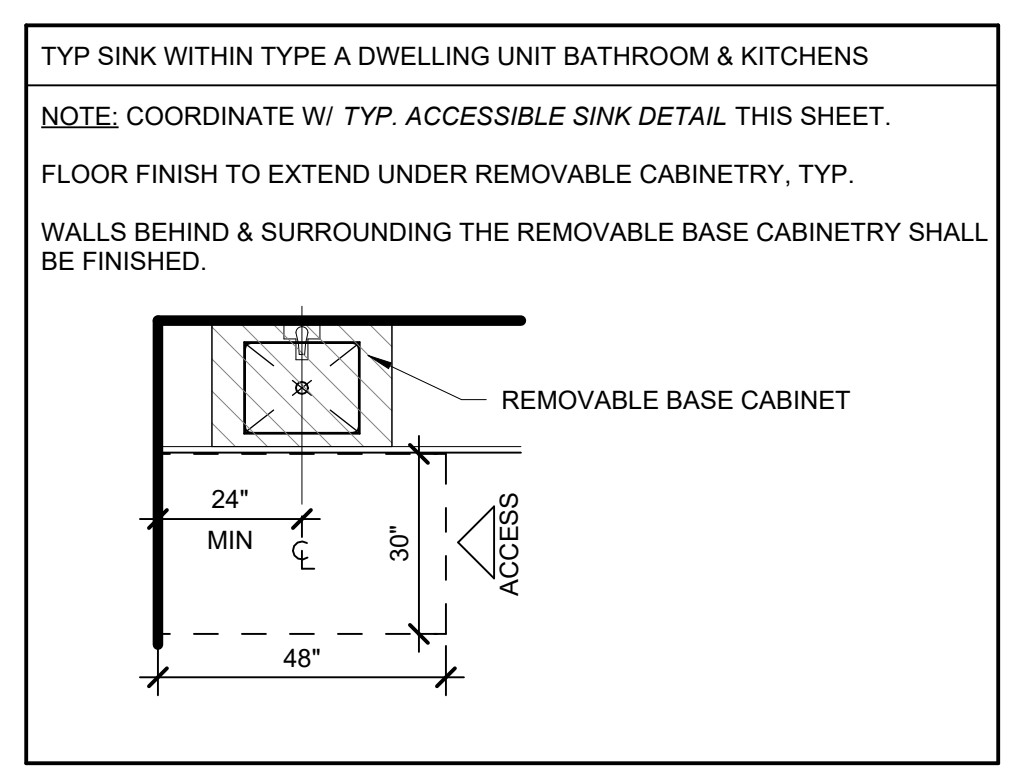
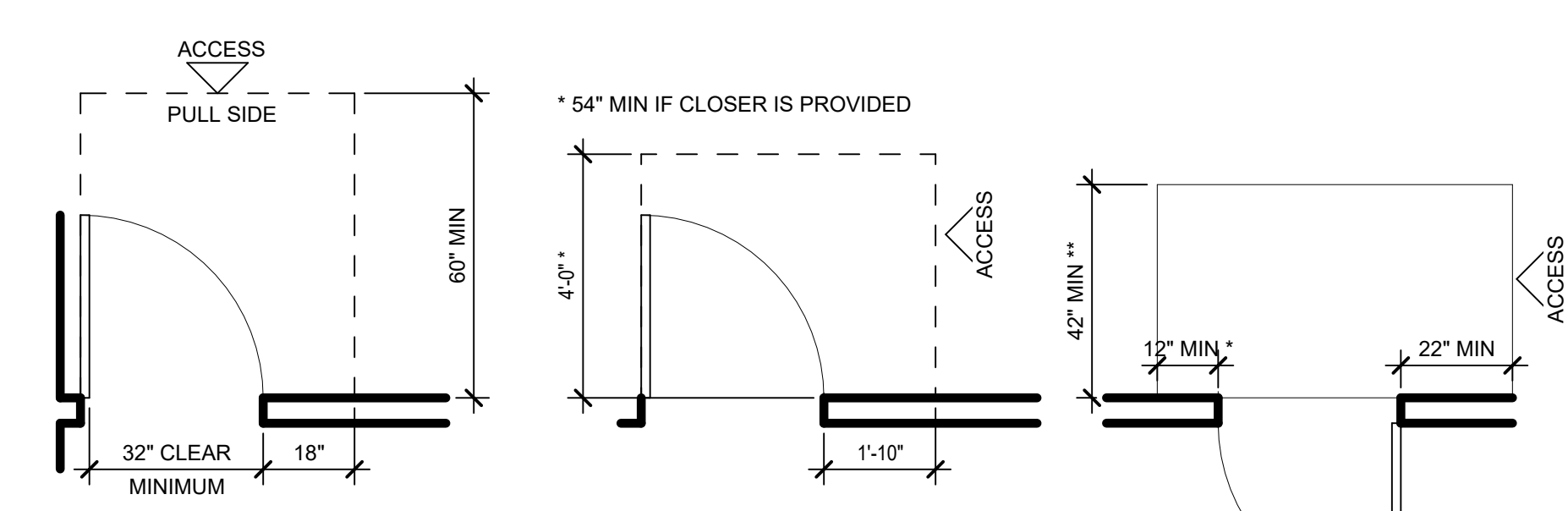
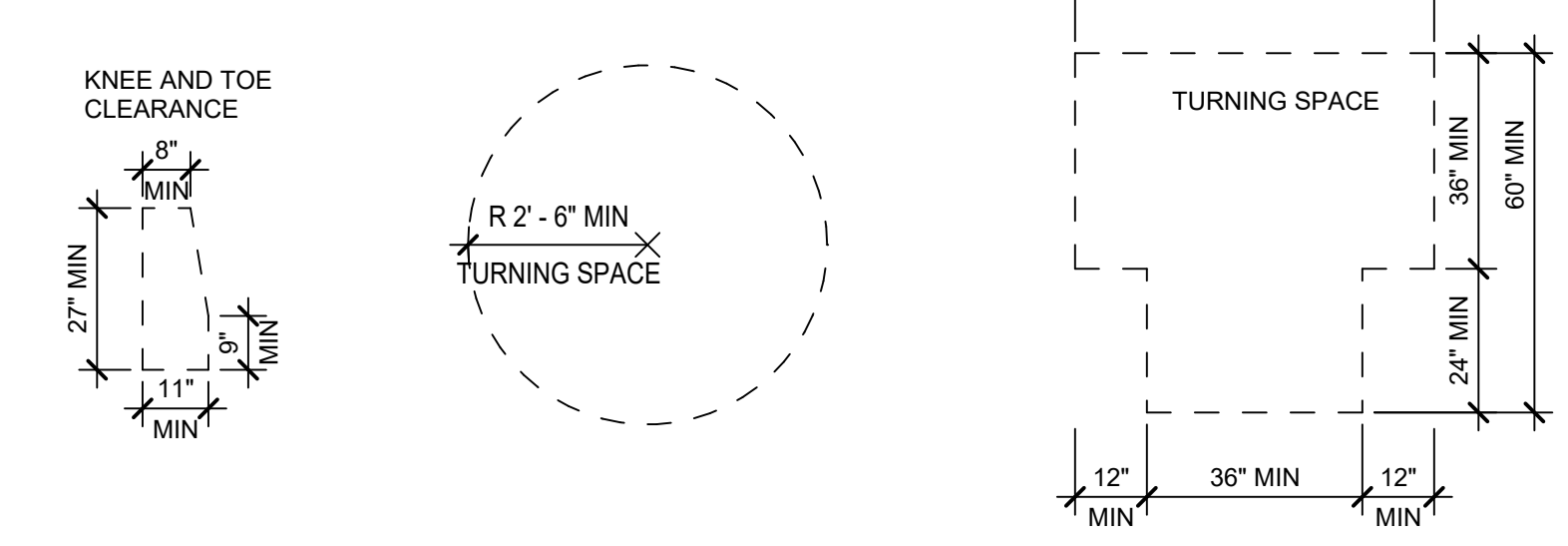
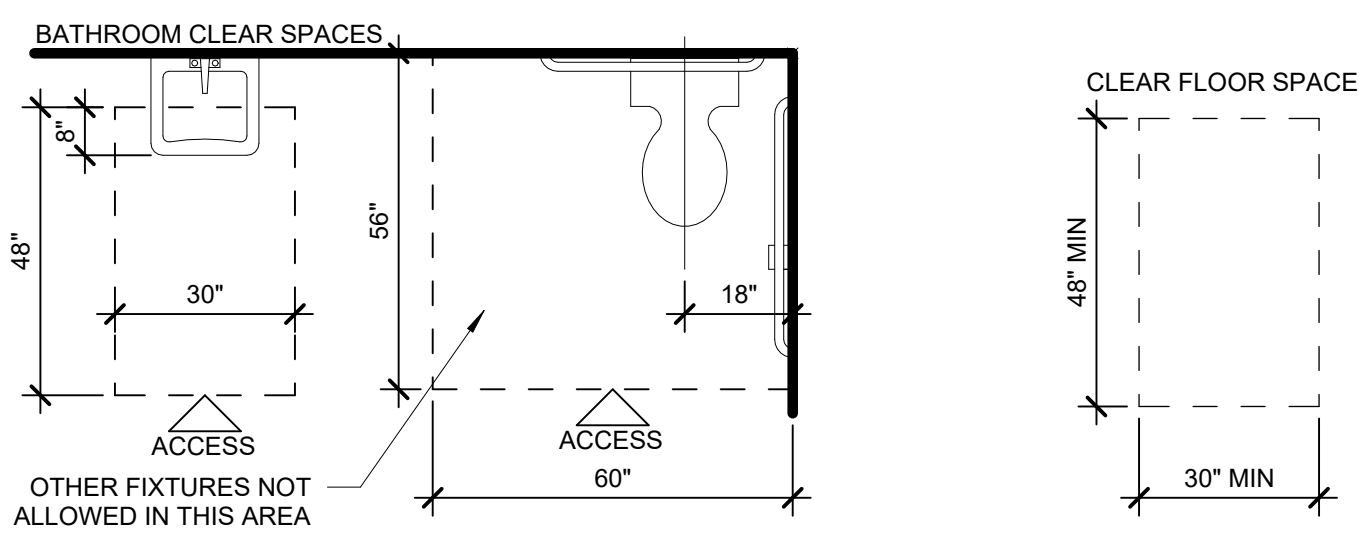
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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

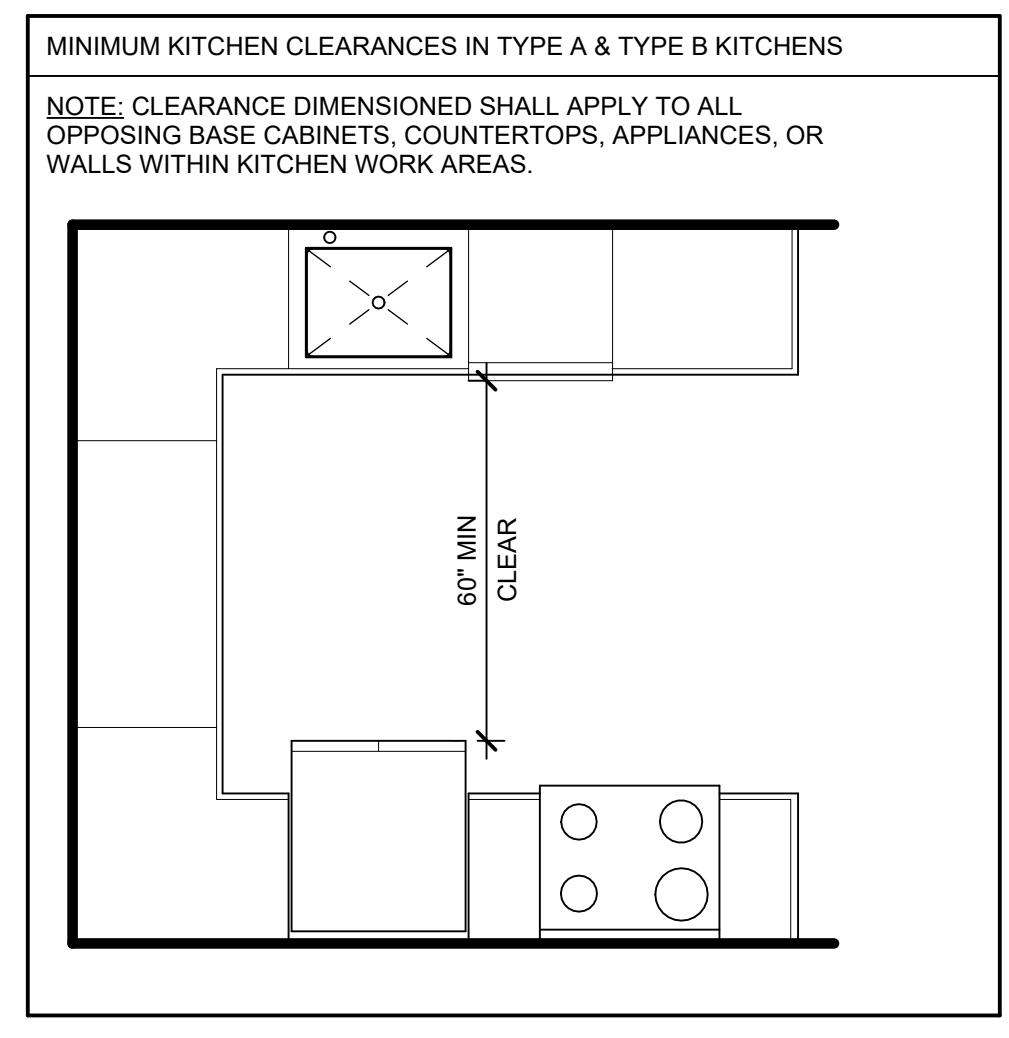
LDA Project No.23.47
CODE DATA & LIFE SAFETY

G0.02

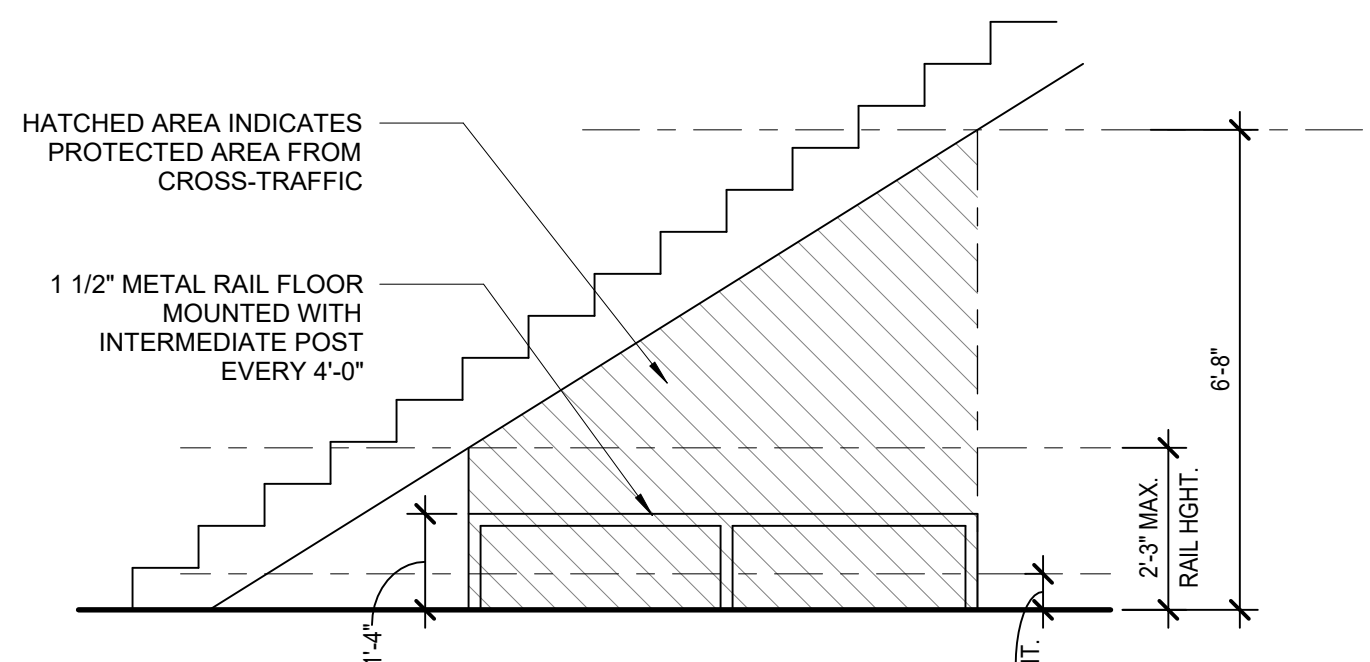
| REV | DATE | DESCRIPTION |
|------------|------|----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
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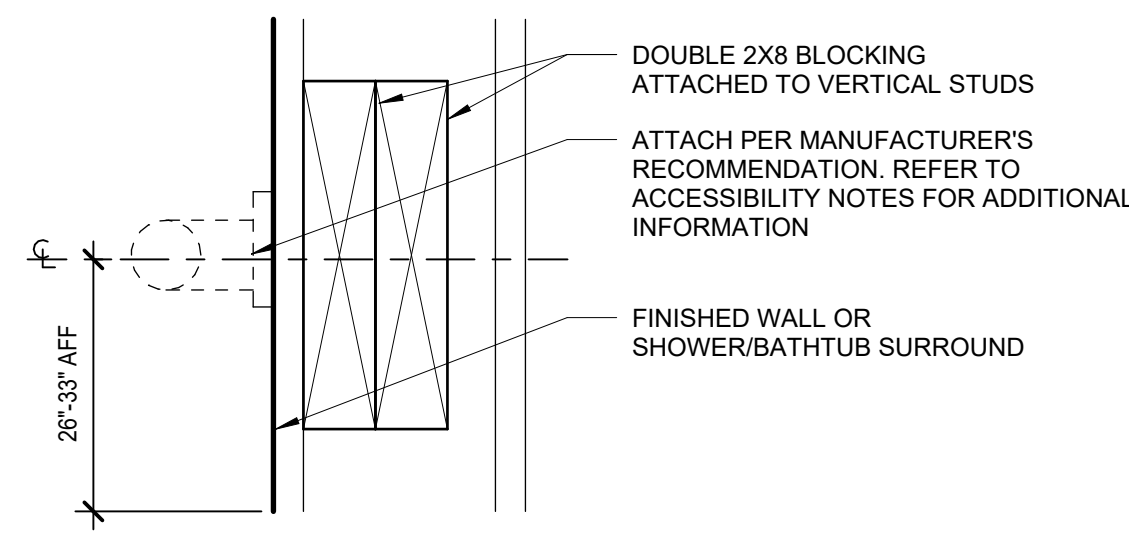
ACCESSIBLE SINK PLAN
SCALE: N.T.S.



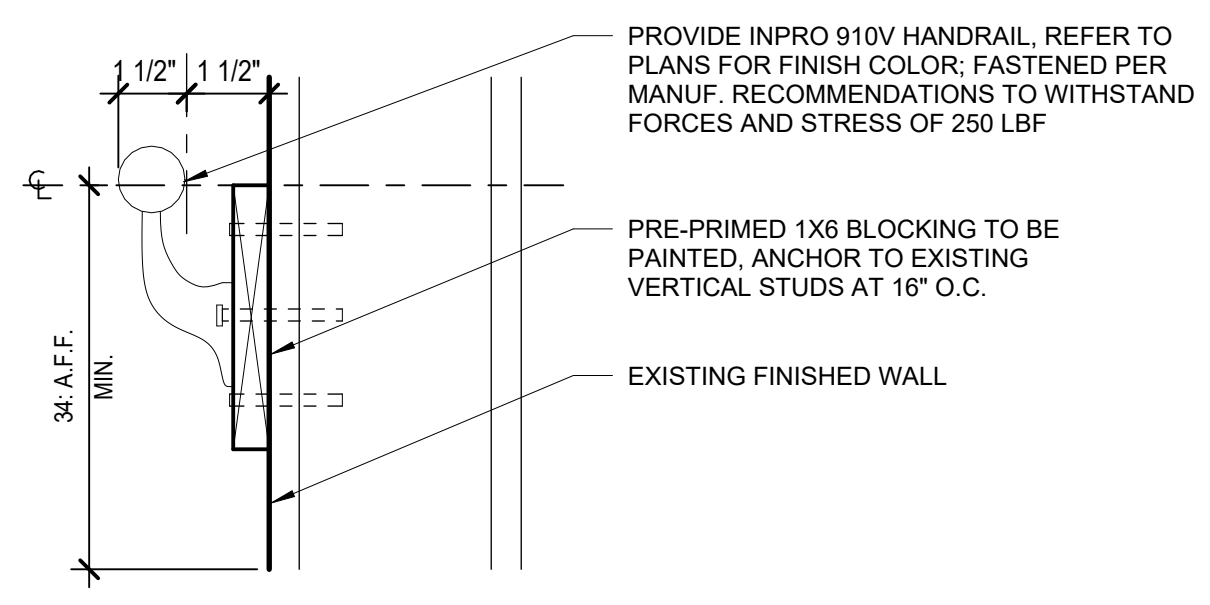
ACCESSIBLE KITCHEN PLAN
SCALE: N.T.S.



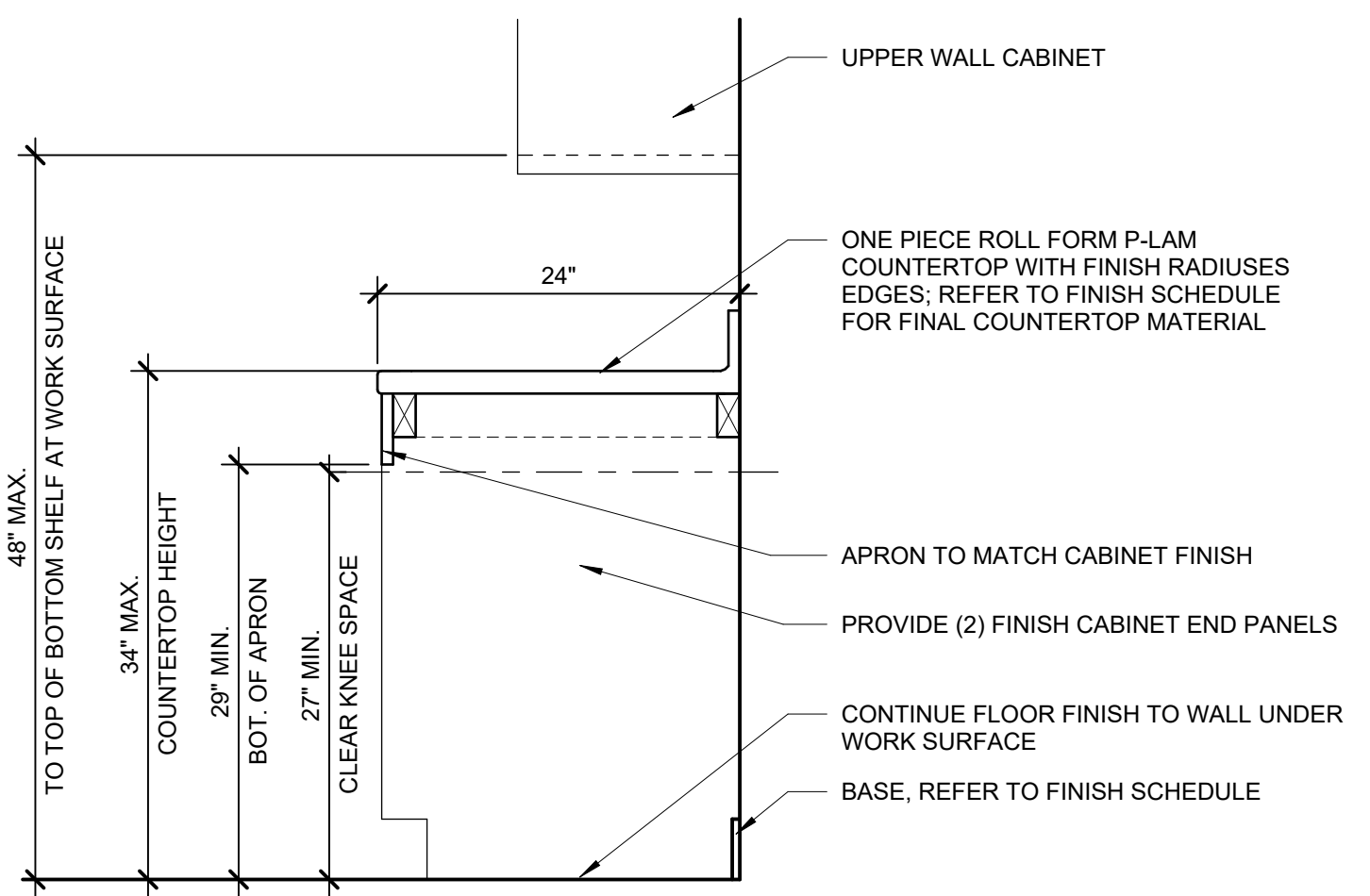
CANE DETECTION AREA AT STAIRS
SCALE: 3/8"=1'-0"



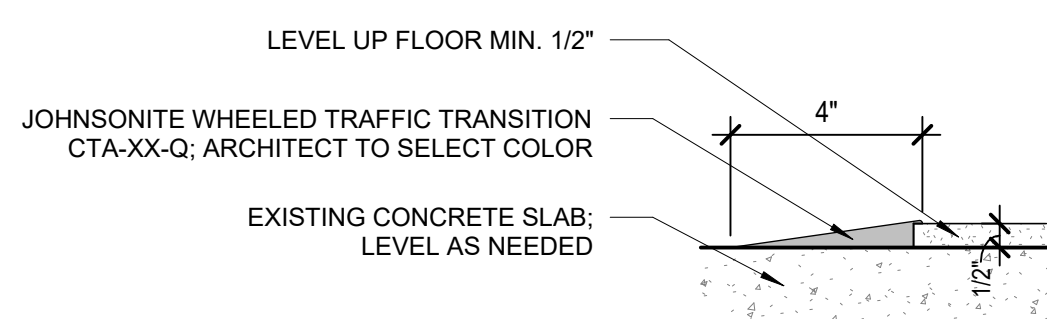
TYPICAL GRAB BAR BLOCKING DETAIL
SCALE: 3/4"=1'-0"



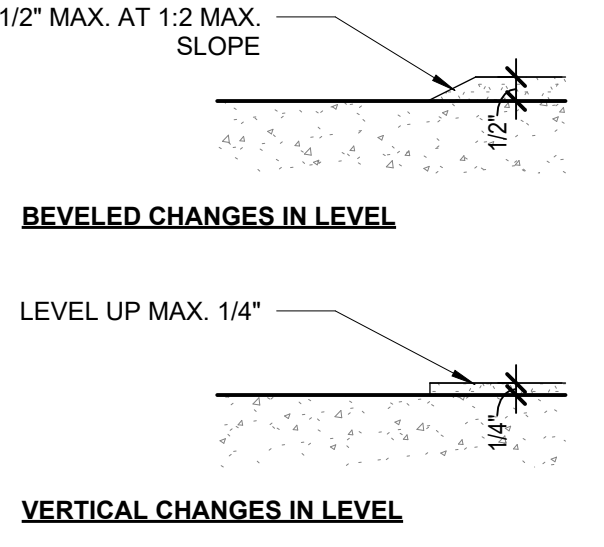
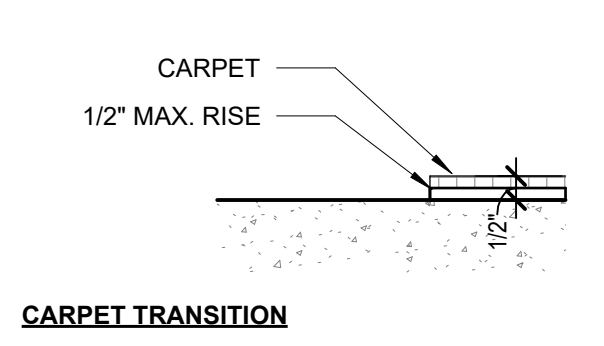
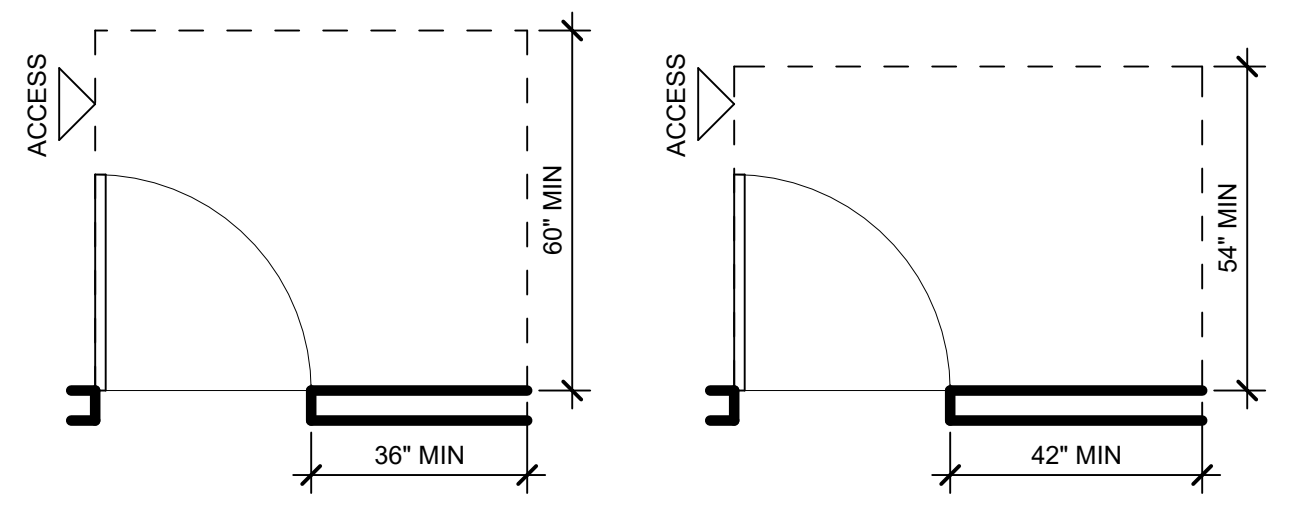
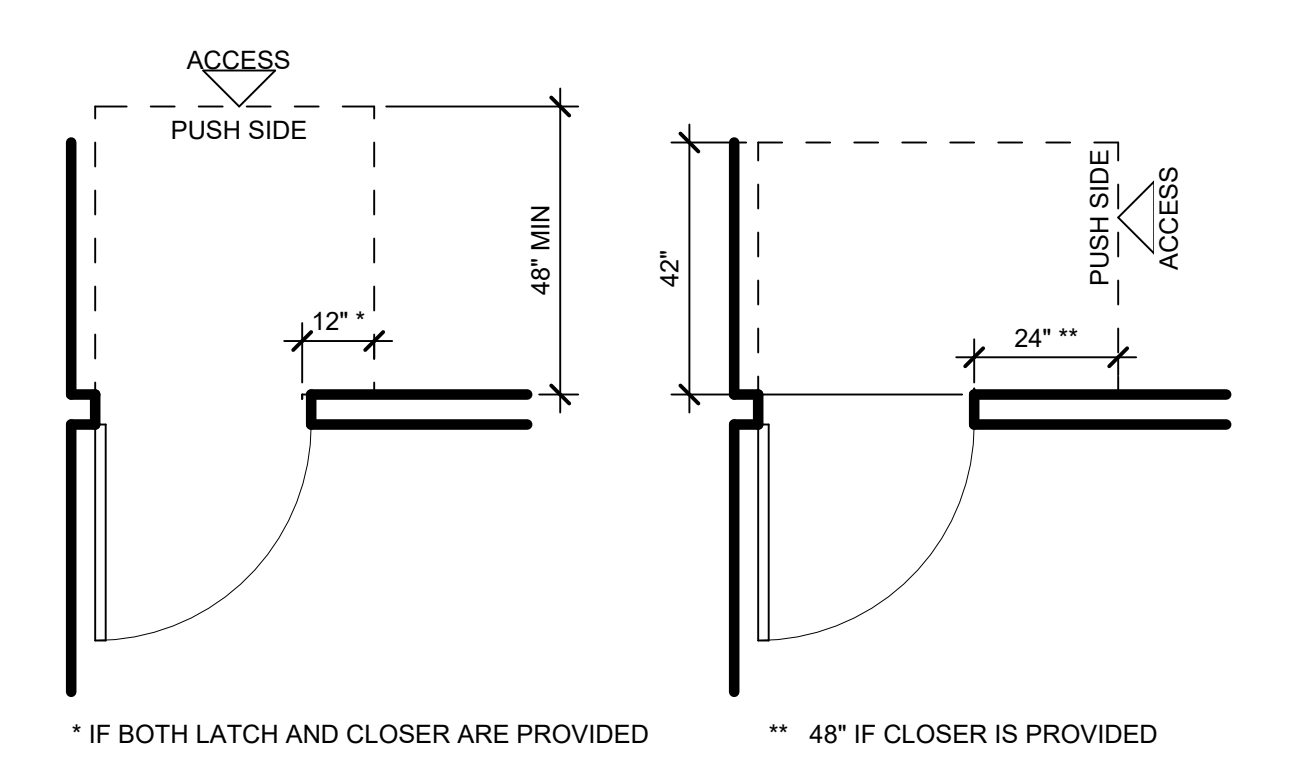
TYPICAL HANDRAIL MOUNTING DETAIL
SCALE: 3/4"=1'-0"



ACCESSIBLE WORK SURFACE
SCALE: N.T.S.

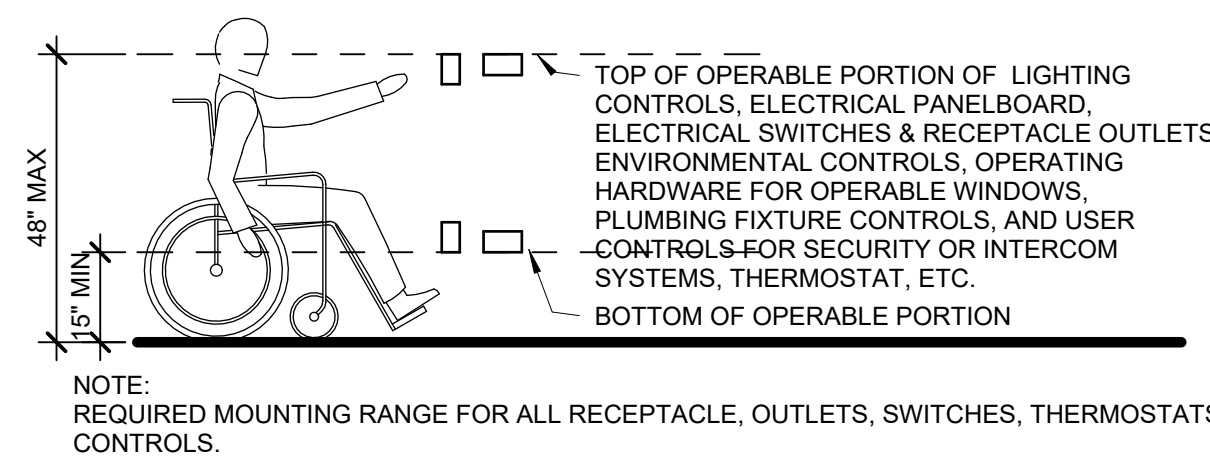


FLOOR TRANSITION DETAIL AT BATH
SCALE: 3/4"=1'-0"

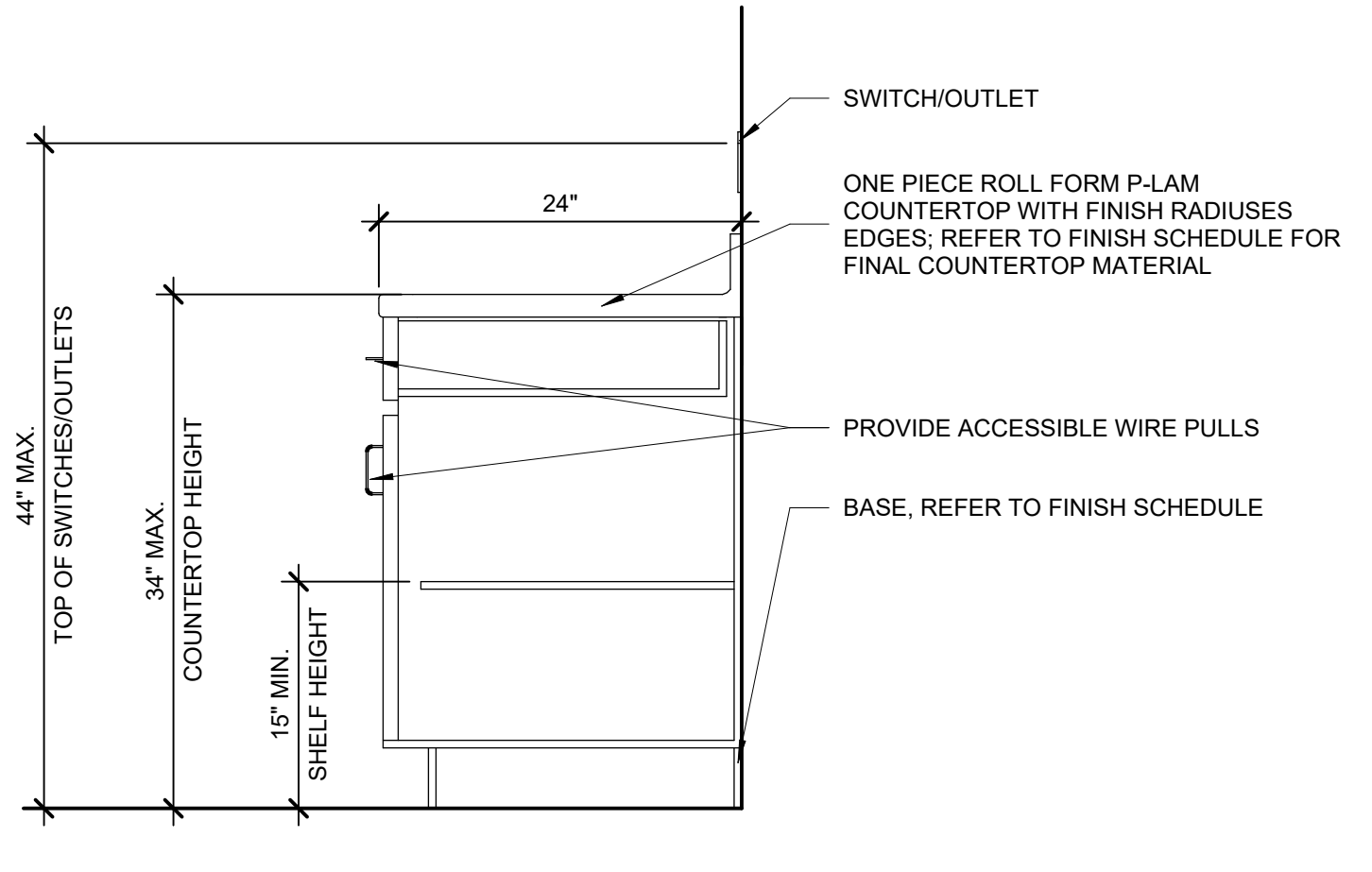


FLOOR SURFACES
SCALE: 3/4"=1'-0"

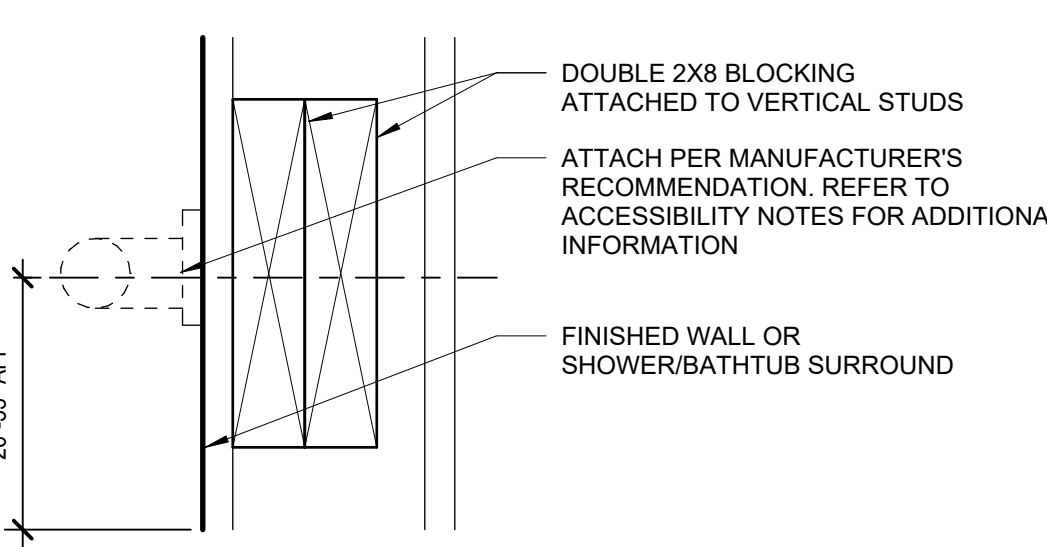
APPLIES TO ALL APARTMENT UNITS AND PUBLIC SPACES



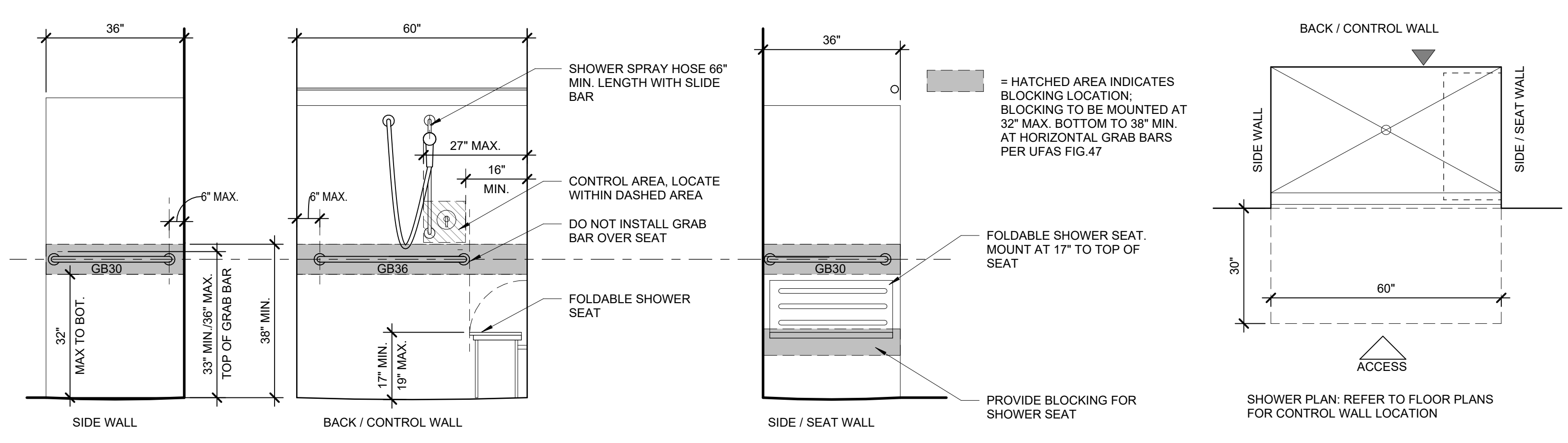
ANSI REACH RANGES
SCALE: N.T.S.



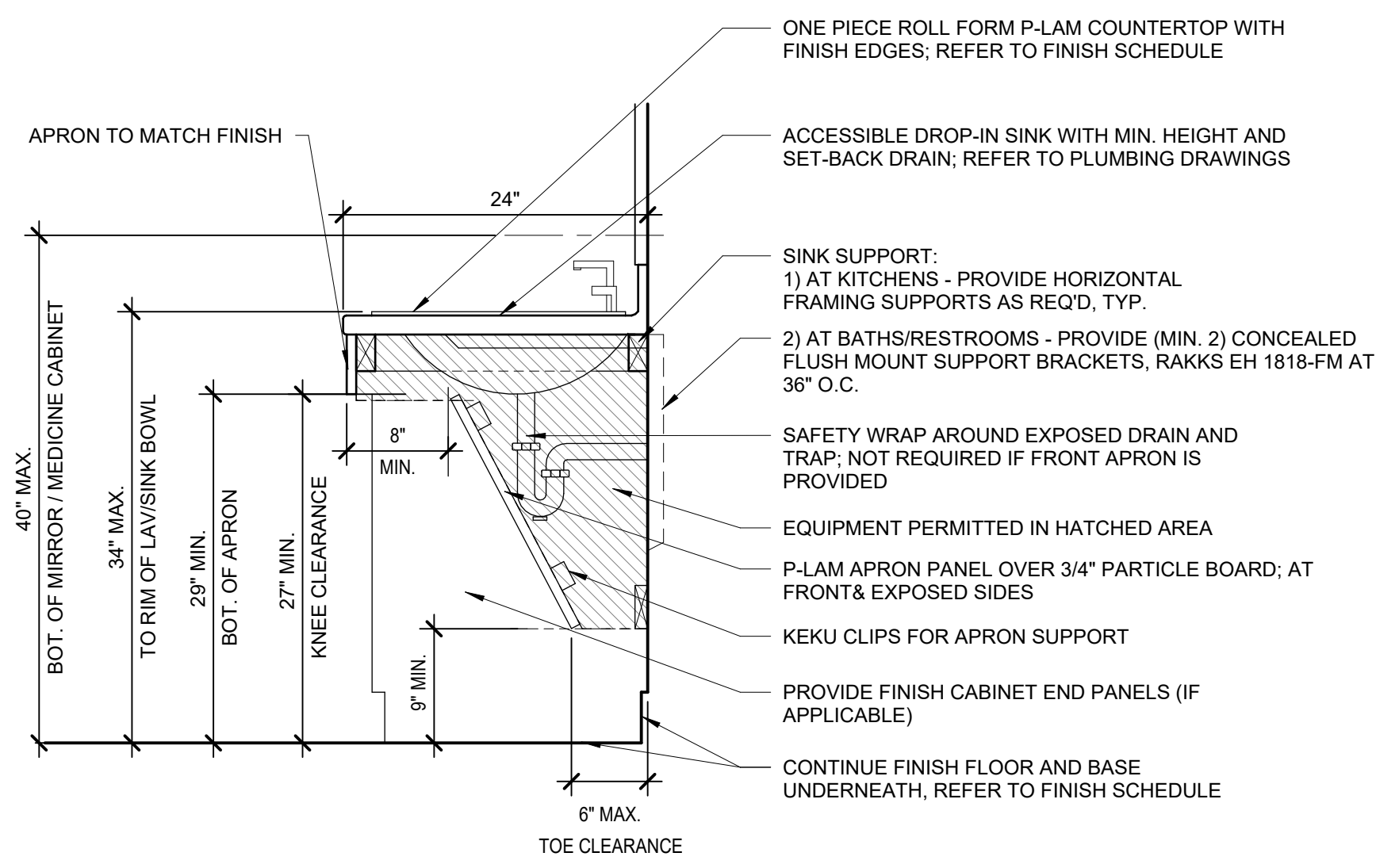
ACCESSIBLE UNIT CABINET
SCALE: 1/2"=1'-0"



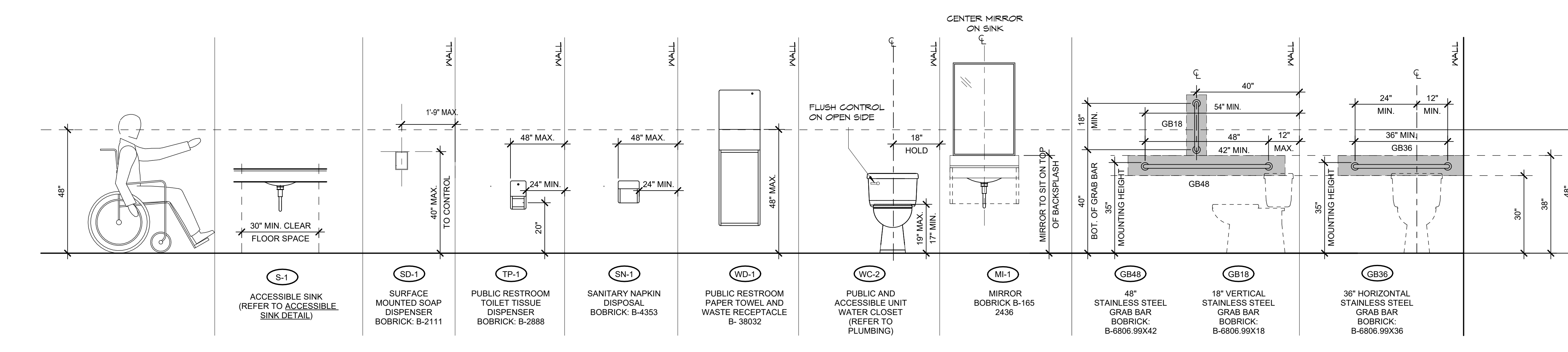
TYPICAL GRAB BAR BLOCKING DETAIL
SCALE: 3/4"=1'-0"



ACCESSIBLE ROLL-IN SHOWER DETAIL
SCALE: 1/2"=1'-0"

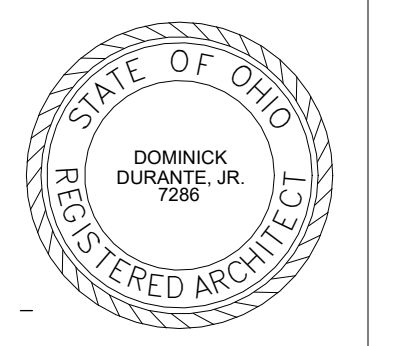


ACCESSIBLE SINK DETAIL
SCALE: N.T.S.



INTERIOR ELEVATION MATRIX - PLUMBING FIXTURES AND ACCESSORIES
SCALE: 1/2"=1'-0"

HATCH AREA INDICATES BLOCKING LOCATION. BLOCKING TO BE MOUNTED AT 32" MAX. BOTTOM TO 38" MIN. AT HORIZONTAL GRAB BARS. REFER TO GRAB BAR BLOCKING DETAIL.



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225
LDA Project No.23.47

CLIV.R14288

Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and ANSUL263 (ASTM E119)

CLIV.R14288
Wall-opening Protective Materials

SpecSeal Power Shield Box Inserts, for use with flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. **Stud Cavity Insulation** - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m³) or mineral fiber (min 4 pcf or 64 kg/m³). Unless indicated as required, stud cavity insulation is optional.

C. **Wall Design** - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

D. **Pad Dimensions** - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve dimensions shown in table and partial insert pads may be utilized.

| Product | Max Outlet Box Size (in. (mm)) | Outlet Box Type | Outlet Box Mfr. | Pad Size in. (mm) | Rating | Stud | Cavity Insulation | Face Plate | Putty |
|---------|---|-----------------|-----------------|---------------------------|--------|---------------|-------------------|------------------|-------|
| EP 23 | 2 x 3 x 2-1/4 (51 x 76 x 57) deep | - | - | 1-7/8 x 2-3/4 (48 x 70) | 2 | Steel | No | Steel | - |
| EP 23 | 2 x 3 x 2-1/4 (51 x 76 x 57) deep | - | - | 1-7/8 x 2-3/4 (48 x 70) | 2 | Steel | Yes | Plastic | - |
| EP 23 | 2 x 3 x 2-1/4 (51 x 76 x 57) deep | - | - | 1-7/8 x 2-3/4 (48 x 70) | 1 | Steel or Wood | Yes | Plastic or Steel | - |
| EP 24 | 2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep | - | - | 1-7/8 x 3-3/4 (48 x 90) | 2 | Steel | No | Steel | - |
| EP 24 | 2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep | - | - | 1-7/8 x 3-3/4 (48 x 90) | 2 | Steel | Yes | Plastic or Steel | - |
| EP 24 | 2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep | - | - | 1-7/8 x 3-3/4 (48 x 90) | 1 | Steel or Wood | Yes | Plastic or Steel | - |
| EP 44 | 4 x 4 x 2-1/8 (102 x 102 x 54) deep | - | - | 3-3/4 x 3-3/4 (95 x 95) | 2 | Steel | No | Steel | - |
| EP 44 | 4 x 4 x 2-1/8 (102 x 102 x 54) deep | - | - | 3-3/4 x 3-3/4 (95 x 95) | 2 | Steel | Yes | Plastic | - |
| EP 44 | 4 x 4 x 2-1/8 (102 x 102 x 54) deep | - | - | 3-3/4 x 3-3/4 (95 x 95) | 1 | Steel or Wood | Yes | Plastic or Steel | - |
| EP 45 | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | - | - | 4-1/2 x 4-1/2 (114 x 114) | 1 or 2 | Steel or Wood | Yes | Plastic or Steel | - |
| EP 45 | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | - | - | 4-1/2 x 4-1/2 (114 x 114) | 1 or 2 | Steel or Wood | Yes | Plastic or Steel | - |
| EP 45 | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | - | - | 4-1/2 x 4-1/2 (114 x 114) | 1 or 2 | Steel or Wood | Yes | Plastic or Steel | - |

SpecSeal Putty Pads, for use with flush device UL Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx. 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty shall be formed around the cable at its connection to the box and extending a min of 1 in. (25 mm). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. **Studs** - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).

B. **Stud Cavity Insulation** - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m³) or mineral fiber (min 4 pcf or 64 kg/m³).

C. **Wall Design** - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.

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D. **Metallic Outlet Boxes** - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required.

E. **Nonmetallic Outlet Boxes** - The box manufacturer is indicated in the table below. Boxes shall bear a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory.

| Model | Max Outlet Box Size (in. (mm)) | Outlet Box Type | Outlet Box Mfr. | Pad Size in. (mm) | Rating | Stud | Cavity Insulation | Face Plate | Putty |
|-------|---|--------------------|-------------------------|-------------------|--------|---------------|-------------------|------------------|-------|
| - | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | Steel | N.A. | - | 1 | Steel or Wood | - | Steel | No |
| - | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | Steel | N.A. | - | 1 | Steel or Wood | - | Plastic | Yes |
| - | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | Steel | N.A. | - | 1 or 2 | Steel or Wood | - | Steel | Yes |
| - | 4-1/2 x 4 x 2-1/8 (114 x 114 x 54) deep | Steel | N.A. | - | 1 or 2 | Steel or Wood | - | Steel | Yes |
| - | 3-3/4 x 4 x 3 (95 x 102 x 70) deep | Polyvinyl Chloride | Larson & Sessions | - | 1 or 2 | Wood | - | Plastic or Steel | N.A. |
| - | 3-3/4 x 4 x 3 (95 x 102 x 70) deep | Phenolic | Allied Moulded Products | - | 1 or 2 | Wood | - | Plastic or Steel | N.A. |
| - | 3-3/4 x 4 x 3 (95 x 102 x 70) deep | Phenolic | Thomas & Betts | - | 1 or 2 | Wood | - | Plastic or Steel | N.A. |
| - | 3-3/4 x 4 x 3 (95 x 102 x 70) deep | Phenolic | Thomas & Betts | - | 1 or 2 | Wood | - | Plastic or Steel | N.A. |
| - | 2-1/4 x 3-3/4 x 2-3/4 (57 x 95 x 70) deep | Polyvinyl Chloride | Pass & Seymour | - | 1 or 2 | Wood | - | Plastic or Steel | N.A. |

SpecSeal Putty Pads, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (min 0.5 pcf or 8 kg/m³) or mineral fiber (nom 4 pcf or 64 kg/m³) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx. 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.

SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx. 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

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SpecSeal Putty Pads, for use with max 5 by 5 by 2-7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 3/16 in. (4.8 mm) thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal EP25 Power Shield Box Inserts, for use with max 5 by 2-7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Power Shield Box Insert is to be applied to the back surface of the box and may be slit to accommodate communications-circuit accessories. When the Power Shield Box Insert is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal Putty Pads, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass (min 0.5 pcf or 8 kg/m³) or mineral fiber (nom 4 pcf or 64 kg/m³) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected with conduit or, when interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx. 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.

SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads, for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx. 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

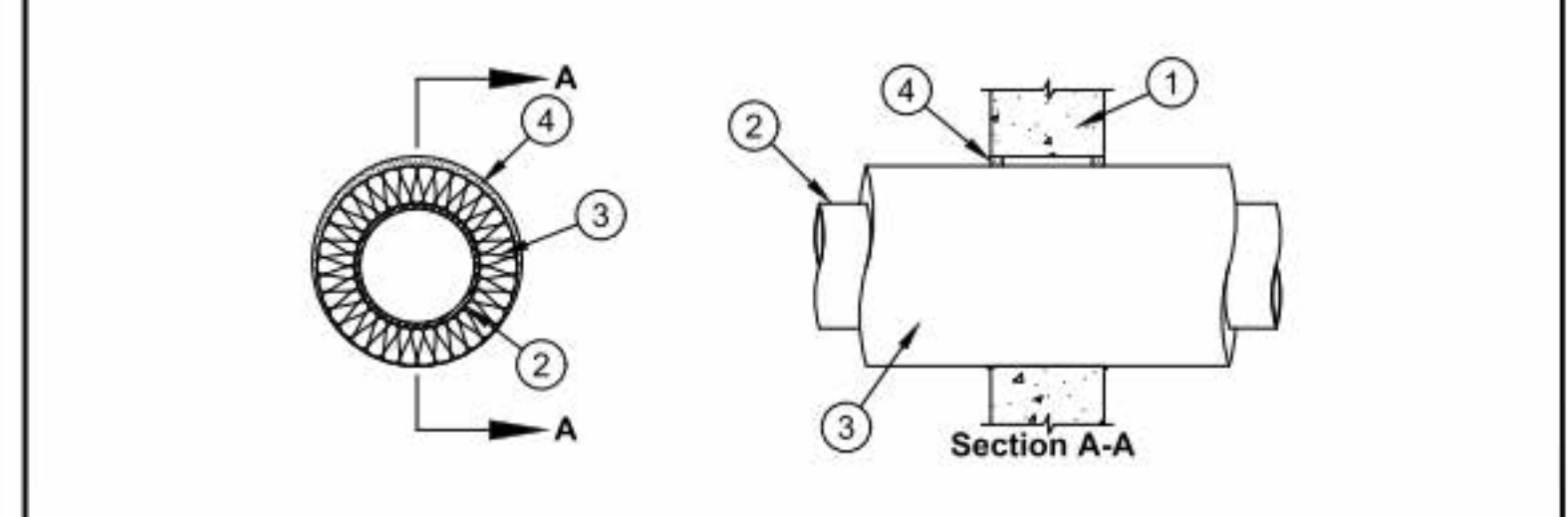
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| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |
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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. W-J-5005

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 1 Hr | FT Rating - 1 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 2 Hr |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 1 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |



- Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 18 in. (457 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 - Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tube.
- Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Steel Pipe** - Nom 2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 2 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 2 in. diam (or smaller) steel electrical metallic tubing or galv steel conduit.
- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between insulated through penetrant and concrete, a min 3/8 in. (10 mm) bead of fill material shall be applied to the concrete insulated through penetrant interface on both sides of the wall.

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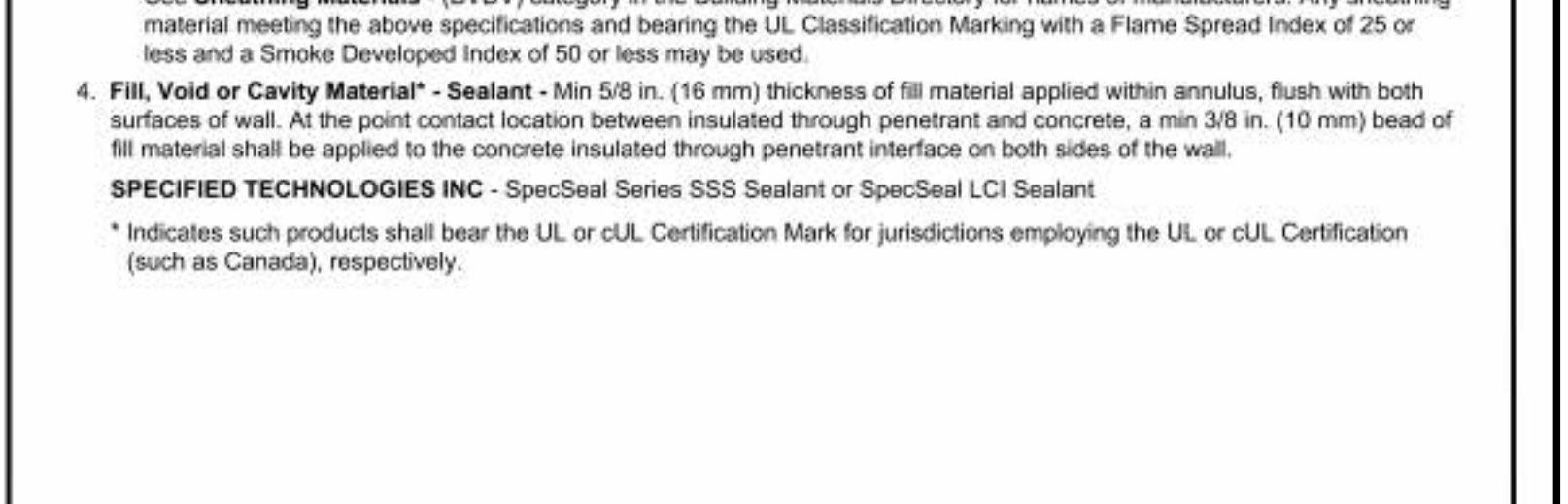
B. **Pipe Covering Materials** - Max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation seal with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. The annular space between insulated through penetrant and periphery of opening shall be min 6 in. (continuous point contact) to max 1-1/4 in. (38 mm).

ISO MINWOOL L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermofoam.

C. **Sheathing Material** - Used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or built tape.

See **Sheathing Materials** - (BRU) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. **Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between insulated through penetrant and concrete, a min 3/8 in. (10 mm) bead of fill material shall be applied to the concrete insulated through penetrant interface on both sides of the wall.



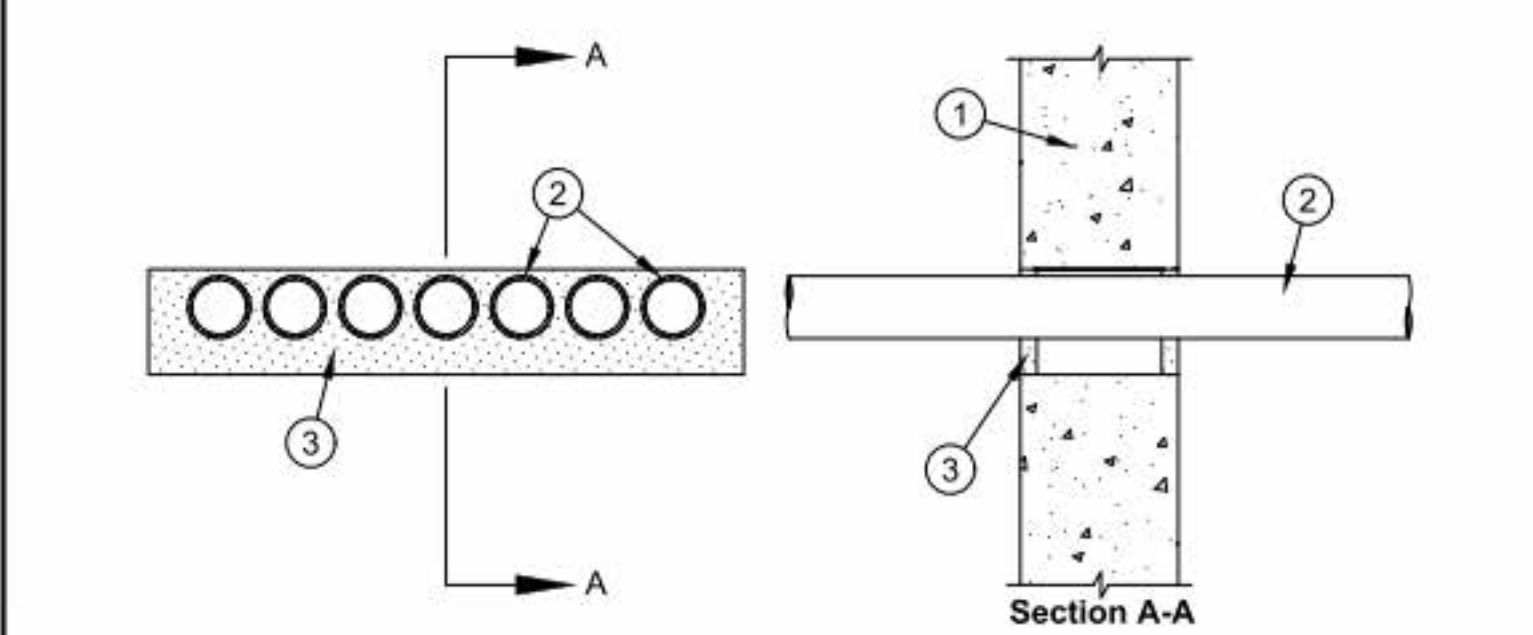
- SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. W-J-1053

| ANSUL1479 (ASTM E814) | CANULC S115 |
|-----------------------|---------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 3/4 Hr | FT Rating - 3/4 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 3/4 Hr |

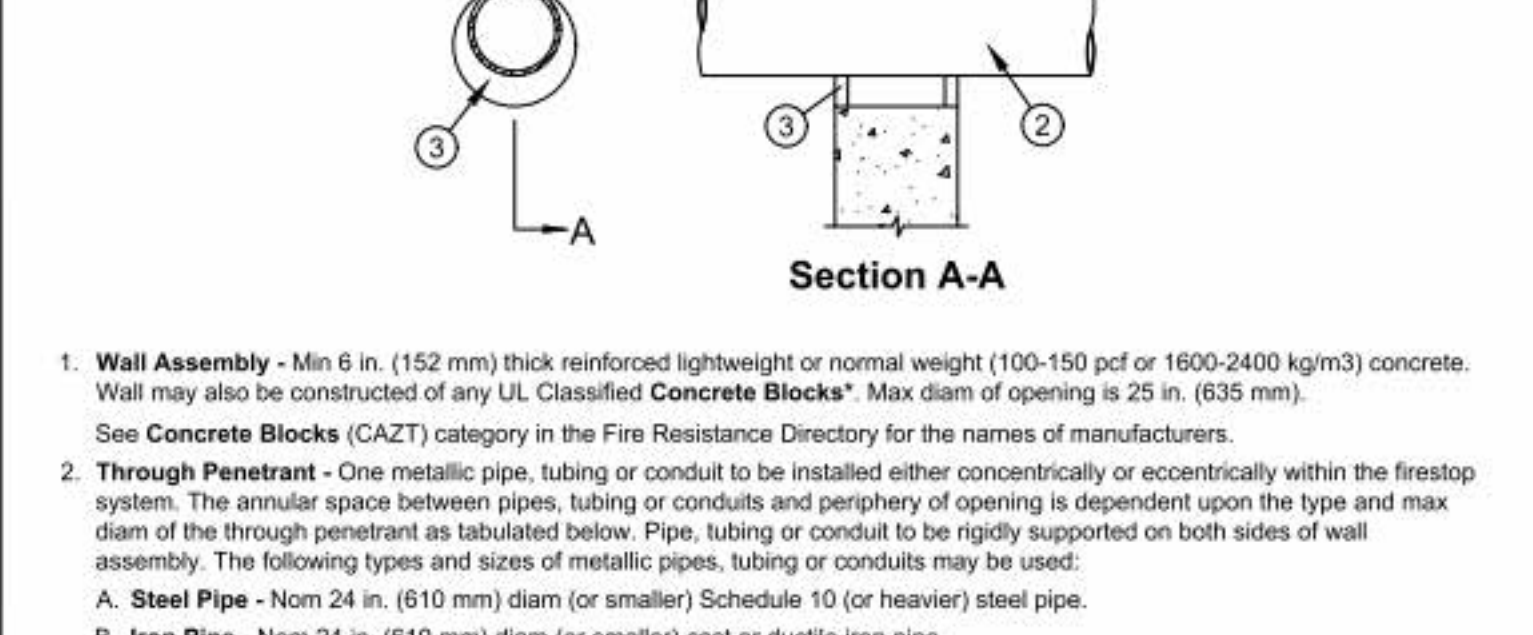


- Wall Assembly** - Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 90-1/2 sq in. with max dimensions of 22-5/8 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One or more pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be a nom 1/2 in. The space between pipes, conduits or tubing and periphery of opening shall be min 1/4 in. in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 2 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 2 in. diam (or smaller) steel electrical metallic tubing or galv steel conduit.
- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall.

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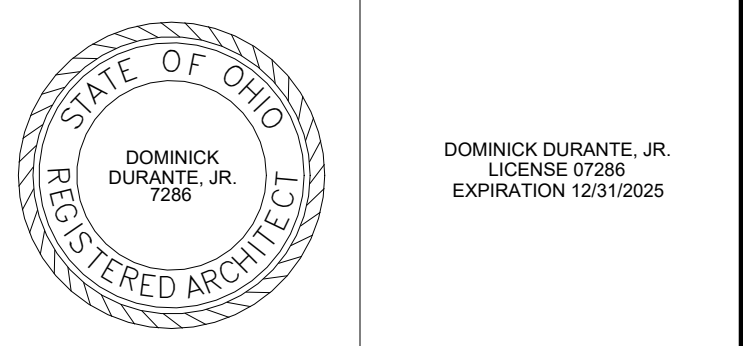
Classified by Underwriters Laboratories, Inc. to ASTM A1479 (ASTM E814)

System No. W-J-1030
F Rating - 2 Hr
T Rating - 0 Hr



- Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 25 in. (635 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
 - Through Penetrant** - One metallic pipe, tubing or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipes, tubing or conduits and periphery of opening is dependent upon the type and max diam of the through penetrant as tabulated below. Pipe, tubing or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, tubing or conduits may be used:
 - Steel Pipe** - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Conduit** - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing, nom 6 in. (152 mm) diam galv steel conduit or nom 1 in. diam flexible steel conduit.
- | Type of Through Penetrant | Max Diam of Through Penetrant in. (mm) | Min & Max Annular Space in. (mm) |
|---------------------------|--|----------------------------------|
| Steel or Iron Pipe | 4 (102) | 0, 1-1/2 (38) |
| Steel Tubing or Conduit | 4 (102) | 0, 1-1/2 (38) |
| Steel Conduit | 6 (152) | 1/8 (3), 1/2 (13) |
| Steel or Iron Pipe | 24 (610) | 1/8 (3), 1/2 (13) |
| Copper Tubing or Pipe | 6 (152) | 1/8 (3), 1/2 (13) |
- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. (10 mm) bead of fill material shall be applied at the concrete/through penetrant interface on both surfaces of wall.
- SPECIFIED TECHNOLOGIES INC** - SpecSeal LCI 150 Sealant, SpecSeal LEB00 Sealant
- * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
|-----|------------|--------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHPA APP. |
| △ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-J-8005**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - 8 CFM/ft ² | FH Rating - 2 Hr |
| L Rating At Ambient - 8 CFM/ft ² | FTH Rating - 0 Hr |
| W Rating - Class 1 (See Item 2B) | L Rating At Ambient -41 L/s/m ² |
| | L Rating At 204°C - Less Than 5.1 L/s/m ² |

Section A-A

- Wall Assembly** - Min 6 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 136.5 sq in. with max dimensions of 22-3/4 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - Four pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be a nom 1-7/8 in. This space between pipes, conduits or tubing and periphery of opening shall be min 5/8 in. to max 1-1/16 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 3 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 2 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 3 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
 - Copper Tubing** - Nom 2 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 2 in. diam (or smaller) Regular (or heavier) copper pipe.
 - Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. diam (or smaller) Schedule 40 PVC pipe for use in closed (process or supply) piping system.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-J-7007**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|-----------------------|---------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 1/2 Hr | FT Rating - 1/2 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 1/2 Hr |

Section A-A

- Pipe Covering** - One of the following types of pipe coverings shall be used:
 - Pipe and Equipment Covering - Materials*** - Nom 1 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an air service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The pipe covering may be installed on one of the metallic pipes or tubing having a nom diam of 2 in. or less. The insulated pipe or tubing shall be spaced a nom 1-7/8 in. from the other through-penetrants. The space between the insulated pipe or tubing and periphery of the opening shall be a nom 1 in.
 - See Pipe and Equipment Covering - Materials** - (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
 - Pipe Covering Materials*** - Nom 1 in. thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. OC. The pipe covering may be installed on one of the metallic pipes or tubing having a nom diam of 2 in. or less. The insulated pipe or tubing shall be spaced a nom 1-7/8 in. from the other through-penetrants. The space between insulated pipe or tubing and periphery of opening shall be a nom 1 in.
 - IG MINWOOL L L C** - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc.
 - Sheathing Material*** - (Not shown) - Used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.
 - See Sheathing Materials (BDVU) category** in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- Cables** - Max six cables to be installed within the firestop system. Cables to be spaced 1-1/2 in. from the through-penetrants. The space between the cables and periphery of opening shall range from a min 1 in. to a max 2-7/8 in. Cables to be tightly bundled together and rigidly supported on both surfaces of wall. Any combination of the following types and sizes of copper conductor cables may be used:
 - Max 25 pair No. 24 AWG (or smaller) telephone cables with polyvinyl chloride (PVC) insulation and jacket.
 - Max 3/4 (with ground) - No. 12 AWG (or smaller) nonmetallic sheathed ("Romex") cable with PVC insulation and jacket.
- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - Min 2-1/2 in. thickness of min 6 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material*** - Caulk - Min 1-1/4 in. thickness of fill material applied within the annulus on both surfaces of wall. Caulk to be forced into interstices of cable group to max extent possible. Additional fill material to be installed such that a min 1 in. lap is formed beyond the periphery of the opening.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-J-7005**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|-----------------------|---------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 1/2 Hr | FT Rating - 1/2 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 1/2 Hr |

Section A-A

- Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 73.7 sq ft (6.85 m²) with max dimension of 104 in. (2.64 m).
- Steel Duct** - Max 100 by 100 in. (2.54 by 2.54 m) No. 26 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The space between the steel duct and periphery or opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.
- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - (Optional, Not Shown) - Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space of opening. Packing material to be recessed from both surfaces of wall as required thickness of fill material.
 - Fill, Void or Cavity Material*** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between the steel duct and the concrete wall, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/steel duct interface on both surfaces of wall assembly.
 - Steel Retaining Angles** - Min No. 16 gauge galv steel angles sized to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of the steel duct and spaced a max of 6 in. (152 mm) OC.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-J-7005**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|-----------------------|-------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 0 Hr |

Section A-A

- Wall Assembly** - Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max area of opening is 25-1/2 in. (648 mm).
- Steel Duct** - Max 24 in. (610 mm) diam No. 26 gauge (or heavier) galv steel vent duct or No. 26 gauge (or heavier) spiral wound galv steel duct. One steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 0 in. (0 mm, point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. Steel duct to be rigidly supported on both sides of the wall assembly.
- Fill, Void or Cavity Material*** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and concrete, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at the through penetrant/concrete interface on both surfaces of wall.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-L-1049**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 1 and 2 Hr (See Item 1) | F Rating - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating at Ambient - Less Than 5.1 L/S/m ² |
| | L Rating at 204°C - Less Than 5.1 L/S/m ² |

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, V300, U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
 - Gypsum Board*** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, V300, U400, V400 or W400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 38 in. (965 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Metallic Sleeve** - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-L-1049**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 1 and 2 Hr (See Item 1) | F Rating - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating at Ambient - Less Than 5.1 L/S/m ² |
| | L Rating at 204°C - Less Than 5.1 L/S/m ² |

Section A-A

- Through Penetrant** - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 36 in. (914 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 36 in. (914 mm) diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.
 - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Through Penetrating Product* - Flexible Metal Piping** - As an alternate to Item 2, one nom 2 in. (51 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115 **System No. W-L-2100**

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|------------------------------------|
| F Ratings - 1 and 2 Hr (See Item 1) | F Rating - 1 and 2 Hr (See Item 1) |
| T Ratings - 0, 1/4, 1 and 1-1/2 Hr (See Item 2) | FT Rating - 0 Hr |
| | FH Rating - 1/4 Hr |
| | FTH Rating - 1 Hr |

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Gypsum Board*** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 3-1/2 in.
- Firestop System** - The firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

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| Rating Of Wall Hr | Type Of Through Penetrant | T Rating Hr |
|-------------------|---------------------------|-------------|
| 2 | PB pipe | 1-1/2 |
| 2 | PEX tubing | 1-1/2 |
| 2 | PVC or CPVC pipe | 1/4 |
| 2 | ABS pipe | 0 |
| 1 | PB pipe | 1 |
| 1 | PEX tubing | 1 |
| 1 | PVC or CPVC pipe | 1/4 |
| 1 | ABS pipe | 0 |

- Fill, Void or Cavity Material*** - Sealant - Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. thick crown is formed around the penetrating item.

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814)

System No. W-L-2552
F Ratings - 1 Hr
T Rating - 1 Hr

SECTION A-A

- Wall Assembly** - The 1 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - (Not Shown) - Wall framing to consist of min 2 by 4 in. (51 by 152 mm) wood or steel channel studs spaced in accordance with the individual U300, U400, or V400 Series Wall and Partition Designs.
 - Batts and Blankets** - Glass fiber or mineral wool batt insulation placed to fill stud cavity containing nonmetallic DWV pipe with clean-out tee (Item 2). Glass fiber insulation to have a min density of 0.9 pcf (14 kg/m³) and a min R-13 thermal insulation rating. Mineral wool batt insulation to have a min density of 3 pcf (48 kg/m³). See **Batts and Blankets** (BKNV) Category in the Building Materials Directory and Batts and Blankets (BZJZ) Category in the Fire Resistance Directory for names of Classified Companies.
 - Gypsum Board** - One layer of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
- Piping System** - One nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC or ABS pipe with PVC or ABS clean-out tee, with threaded plug, for use in vented (drain, waste or vent) piping system installed within stud cavity. The threaded PVC or ABS clean-out plug is to be centered behind opening in gypsum board.
- Fill, Void or Cavity Material - Putty or Sealant** - Min 3/4 by 5/16 in. (19 by 8 mm) continuous band of putty or min 1/2 in. (13 mm) diam continuous bead of sealant applied as a gasket around perimeter of opening.
- Cover Plate** - Min 6-1/2 in. (165 mm) diam 24 gauge (or heavier) stainless steel cover plate secured to PVC or ABS clean-out plug with stainless steel screw through center of plate. Cover plate to be tightened squarely to wall and shall overlap surface of gypsum board min 3/4 in. (19 mm) around entire perimeter of opening.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814)

System No. W-L-2242
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 1-3/4 Hr (See Item 2)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm).
- Through Penetrant** - One or more nonmetallic pipes, conduits or tubes to be bundled together and installed eccentrically or concentrically within the firestop system. Aggregate cross-sectional area of penetrants not to exceed 42 percent of the cross-sectional area of the opening. The annular space between the grounded pipes, conduits or tubes and the periphery of the opening shall be min 0 in. (point contact) to max 1 in. (25 mm). Separation between pipes, conduits or tubes to be min 0 in. (point contact) to max 1 in. (25 mm). Pipes, conduits or tubes to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes, conduits and tubes may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 1 in. (25 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 1 in. (25 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).
 - Electrical Nonmetallic Tubing** - Nom 1 in. (25 mm) diam (or smaller) PEX tubing installed in accordance with the National Electrical Code (NFPA 70).
 - Cross Linked Polyethylene (PEX) Tubing** - Nom 1 in. (25 mm) diam (or smaller) SDR9 PEX tubing for use in closed (process or supply) piping systems.
- The T Rating is 1 hr and 1-3/4 hr for 1 and 2 hr fire rated walls, respectively.**
- Fill, Void or Cavity Material - Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. Sealant to be forced into interstices between penetrants to max extent possible. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at nonmetallic pipe/gypsum board interface on both surfaces of wall.

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Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814)

System No. W-L-2237
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)

SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
 - Gypsum Board** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. For nom 2-1/2 in. diam and smaller pipes and conduits, diam of opening shall be max 1/4 in. larger than nom pipe diam. For pipes and conduits greater than nom 2-1/2 in. diam of opening shall be max 1/2 in. larger than nom pipe diam.
- Through Penetrants** - One nonmetallic pipe or conduit to be centered within opening with a max annular space between pipe or conduit and periphery of 1/8 in. for nom 2-1/2 in. diam and smaller pipes and conduits and 1/4 in. for pipes and conduits greater than 2-1/2 in. diam. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes and conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA 70).
- Firestop System** - The firestop system consists of the following:
 - Fill, Void or Cavity Material - Sealant** - Min 1/4 in. thickness applied within annulus, flush with both surfaces of wall.
 - Firestop Device** - Gally steel collar lined with an intumescent material sized to fit the specific diam of the through penetrant. Device shall be installed around through penetrant in accordance with the accompanying installation instructions. Device incorporates anchor tabs for securement to both surfaces of wall assembly by means of 3/16 in. diam steel toggle bolts in conjunction with min 1-1/4 in. diam steel fender washers.

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System No. W-L-1168
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1/4, 3/4 and 1 Hr (See Items 2 and 4)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Ratings - 1/4, 3/4 and 1 Hr (See Items 2 and 4) | FT Ratings - 1/4, 3/4 and 1 Hr (See Items 2 and 4) |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Ratings - 1/4, 3/4 and 1 Hr (See Items 2 and 4) |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |

SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing shall consist of min 3-5/8 in. (92 mm) wide steel studs spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Thickness, type, number of layers and fasteners, as specified in the individual U400, V400 or W400 Series design. Max height of opening is 6 in. (152 mm). Max width of opening is 36 in. (914 mm).
- Through Penetrants** - Multiple pipes or conduits installed in single layer array within the firestop system. The annular space between the pipes and conduits and the edges of the opening shall be min 0 in. (point contact) to max 3 in. (76 mm). The separation between pipes and conduits to be min 1/4 in. (6 mm) to max 3 in. (76 mm). Pipes and conduits to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipe or conduit may be used:
 - Steel Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Conduit** - Nom 4 in. (102 mm) diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
- When diam of pipe or conduit is greater than 2 in. (51 mm), T, FT and FTH Ratings are 1/4 hr. Otherwise, T, FT and FTH Ratings are 3/4 hr or 1 hr as detailed in Item 4.**
- Forming Material** - (Optional, Not Shown) - Foam backer rod, mineral wool batt insulation or glass fiber insulation packed into opening and recessed min 5/8 in. (16 mm) from each surface of the wall to accommodate fill material.
- Fill Void or Cavity Materials - Sealant** - Min 5/8 in. (16 mm) thickness of fill material installed to completely fill annular space between pipes, conduits and gypsum wallboard flush with each surface of wall. Min 1/4 in. (6 mm) diam bead of fill material applied to the pipe/wall interface at the point contact locations on both sides of the wall.

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System No. W-L-5014
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1 Hr | FT Rating - 1 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 1 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |

SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 16 in. (407 mm).
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
- Metallic Sleeve** - (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

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System No. W-L-7193
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

SECTION A-A

- Wall Assembly** - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing to consist of nom 2 by 4 in. (51 by 152 mm) (or larger) wood or steel channel studs or doubled or staggered nom 2 by 4 in. (51 by 102 mm) (or larger) wood studs spaced in accordance with the individual U300, U400, or V400 Series Wall and Partition Designs.
 - Gypsum Board** - Thickness, type, number of layers, as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
- The hourly F and T Ratings are equal to the hourly rating of the wall assembly in which it is installed.**
- Tub and Shower Valve** - Single-handled tub/shower valve assembly with nonmetallic polyethylene and stainless steel materials connected to nom 1/2 in. (13 mm) cross-linked polyethylene (PEX), copper, brass, or iron supply pipes/tubes. Nom 7 in. (178 mm) stainless steel escutcheon plate to lap min 1 in. (25 mm) beyond periphery of opening.
- Fill, Void or Cavity Material - Sealant or Putty** - Min 1/2 in. (13 mm) depth of fill material applied within opening flush with wall surface.

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System No. W-L-3169
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1/4 and 3/4 Hr (See Item 2A)

SECTION A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
- The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
- Cables** - Max 4-1/2 in. diam tight bundle of cables to be installed eccentrically or concentrically within the opening. The annular space between the cables and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Cable bundle to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of cables may be used:
 - Max 200 pair No. 24 AWG (or smaller) copper conductor with polyvinyl chloride (PVC) insulation and jacketing material.
 - Max 1/2 No. 350 kcmil (or smaller) copper conductor cable with cross-linked polyethylene (XLPE) jacket.
 - Max 7/2 No. 12 AWG (or smaller) copper conductor power and control cables with XLPE or PVC insulation with XLPE or PVC jacket.
 - Max 3/2 No. 210 AWG (or smaller) copper or aluminum conductor SER cables with PVC insulation and jacket.
 - Max 3/2 No. 210 AWG (or smaller) copper conductor PVC jacketed aluminum clad or steel clad TEK cable.
 - Max 110/125 fiber optic (F.O.) cable with PVC insulation and jacket.
 - Max 3/2 with ground No. 8 AWG (or smaller) copper conductor NM cable (Romex) with PVC insulation and jacket.
 - Max RDU coaxial cable with fluorinated ethylene insulation and jacket.
 - Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with Hytar jacket and insulation.
 - Max 4/C (with ground) No. 300 kcmil (or smaller) aluminum conductor SER cables with PVC insulation and jacket.
- Through Penetrating Product** - As an alternate to the cables (Item 2), max 4 in. (102 mm) diam tight bundle of max 4/C No. 210 AWG (or smaller) aluminum or steel Armored Cable or Metal Clad Cable installed within the opening. Annular space between through-penetrating products and periphery of opening to be min 0 in. (point contact) to max 1 in. (25 mm). Through penetrating product rigidly supported on both sides of floor or wall assembly. **When Armored Cable or Metal Clad Cable is used, T Rating is 1/4 hr.**

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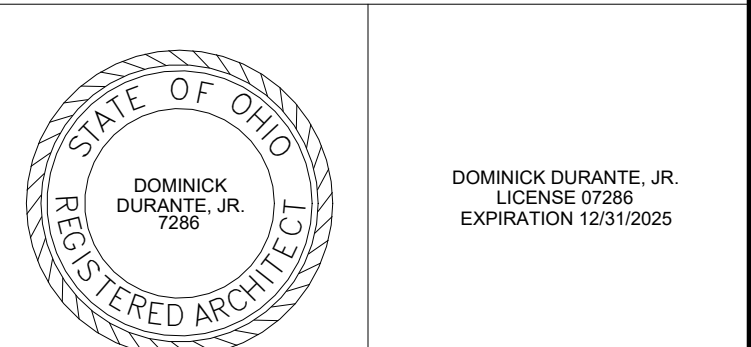
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System No. W-L-1793
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 1 and 2 Hr (See Item 1)
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

SECTION A-A

- Wall Assembly** - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing to consist of nom 2 by 4 in. (51 by 152 mm) (or larger) wood or steel channel studs or doubled or staggered nom 2 by 4 in. (51 by 102 mm) (or larger) wood studs spaced in accordance with the individual U300, U400, or V400 Series Wall and Partition Designs.
 - Gypsum Board** - Thickness, type, number of layers, as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).
- The hourly F and T Ratings are equal to the hourly rating of the wall assembly in which it is installed.**
- Fill, Void or Cavity Material - Sealant or Putty** - Min 1/2 in. (13 mm) depth of fill material applied within opening flush with wall surface.

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W-L-1793
PAGE 1 OF 1



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Street Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |
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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. W-L-7029

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|-------------------------------------|--------------------------------------|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1/4 Hr | FT Rating - 1/4 Hr |
| | FH Ratings - 1 and 2 Hr (See Item 1) |
| | FTH Rating - 1/4 Hr |

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400, or W400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame opening.
 - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Designs in the UL Fire Resistance Directory. Max area of opening is 690 sq in. (0.45 m²) with max dimension of 27 in. (686 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall in which it is installed.
- Steel Duct** - Max 24 by 24 in. (610 by 610 mm) No. 28 gauge (or heavier) steel duct to be installed within the opening. The annular space within the firestop system shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.
- Coated Ducts** - As an alternate to item 2, max 24 by 24 in. (610 by 610 mm) steel duct coated with BW11 coating material. Duct sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements. Annular space between duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly.

FIRESPRAY INTERNATIONAL LTD - FLAMEBAR BW11 fire rated ductwork

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. W-L-7026

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204 C - Less Than 5.1 L/s/m ² |

Section A-A

- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - (Optional, Not Shown) - Mineral wool batt insulation, foam backer rod or glass fiber insulation installed as a permanent form to facilitate installation of fill material (Item 3B).
 - Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. Min 1/4 in. (6 mm) diam bead of fill material to be applied at point contact location between the steel duct and the gypsum board.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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System No. W-L-7026

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204 C - Less Than 5.1 L/s/m ² |

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. When diam of opening exceeds width of stud cavity, additional lengths of steel stud installed to frame out opening around steel duct (Item 2).
 - Gypsum Board** - 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 25-1/2 in. (648 mm).

The hourly F and FH Rating of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Duct** - Max 24 in. (610 mm) diam No. 28 gauge (or heavier) galv steel vent duct or No. 28 gauge (or heavier) spiral wound galv steel duct. One steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 0 in. (point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. Steel duct to be rigidly supported on both sides of the wall assembly.
- Coated Ducts** - As an alternate to item 2, max 24 in. (610 mm) diam (or smaller) steel duct coated with BW11 coating material. Duct sections shall be assembled using bolted flanges or SMACNA approved Transverse Joint Reinforcements. One duct to be installed either concentrically or eccentrically within the firestop system. The annular space between the duct and the periphery of the opening shall be min 0 in. (point contact) to a max of 1-1/2 in. (38 mm). Duct to be rigidly supported on both sides of wall assembly.

FIRESPRAY INTERNATIONAL LTD - FLAMEBAR BW11 fire rated ductwork

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System No. W-L-7026

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Ratings - 1 and 2 Hr (See Item 1) |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204 C - Less Than 5.1 L/s/m ² |

Section A-A

- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - (Optional, Not Shown) - Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fit into annular space for 2 hr rated wall assemblies only. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material (Item 3B).
 - Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct and the gypsum board. For 2 hr Rated walls when LC150 or LE600 Sealant is used, fill material thickness installed to full depth of gypsum board layers on each side of wall assembly.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal LC150 Sealant, or SpecSeal LE600 Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814)

System No. W-L-8025

F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1/4 Hr

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 3-1/2 in. (89 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant** - A max of two pipes or tubes to be installed within the opening. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). Annular space between pipes or tubing and periphery of opening shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Separation between uninsulated pipes or tubes shall be min 0 in. (point contact) to max 1-1/2 in. (38 mm). Pipes or tubing to be rigidly supported on both sides of the wall assembly. The following types and sizes of through penetrants may be used:
 - Steel Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.
 - Copper Pipe** - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.
 - Copper Tube** - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.
- Tube Insulation** - **Plastics** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/styrene (ABS) or polyvinyl chloride (PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tube. The annular space between the insulated penetrating item and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). The space between insulated and uninsulated pipes or tubing shall be 0 in. (point contact).
See **Plastics** (CMF22) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
- Cable** - One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials. Cable to be spaced min 0 in. (point contact) to max 1/2 in. (13 mm) from the other penetrants. The space between the cable and the periphery of the opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). Cable to be rigidly supported on both sides of wall assembly.

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. W-L-7212

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|-------------------------------------|---------------------------------------|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1 and 2 Hr (See Item 1) | FT Ratings - 1 and 2 Hr (See Item 1) |
| | FH Ratings - 1 and 2 Hr (See Item 1) |
| | FTH Ratings - 1 and 2 Hr (See Item 1) |

Section A-A

- Fill, Void or Cavity Material** - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at through penetrant/gypsum board interface on both surfaces of wall. Additional fill material forced into grouped penetrant interstices to max extent possible.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant or Type WF300 Firestop Caulk (wood stud walls only).
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
#Bearing the UL Recognized Component Marking

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System No. W-L-7212

| ANSUL 1479 (ASTM E814) | CANULC S115 |
|-------------------------------------|---------------------------------------|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1 and 2 Hr (See Item 1) | FT Ratings - 1 and 2 Hr (See Item 1) |
| | FH Ratings - 1 and 2 Hr (See Item 1) |
| | FTH Ratings - 1 and 2 Hr (See Item 1) |

Section A-A

- Wall Assembly** - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs** - Wall framing may consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional stud(s) installed horizontally or vertically as required for steel box attachment.
 - Gypsum Board** - Gypsum board type, thickness, number of layers, and orientation shall be as specified in the individual Wall and Partition Design. Size of cutout made to accommodate steel box (Item 2) and wrap material (Item 3). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Box** - Min 20 gauge, Max 14-3/8 in. (365 mm) wide by 39-1/8 in. (994 mm) by max 3-1/2 (89 mm) steel electrical panel box, steel utility box, or steel metal gate valve box with hinged steel door and mounting flange. Steel box attached to wall framing using steel screws after application of wrap material (Item 3). Sides, bottom and/or top of steel box may be penetrated by a maximum of five nominal 2 in. (51 mm) diam (or smaller) steel pipe, iron pipe, copper pipe or tube, steel conduit or EMT. Steel conduit connectors may be used at interface with steel box. Open ends of pipes, tubes or conduits which terminate inside the box to be plugged with sealant or putty (Item 4).

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System No. W-L-7212

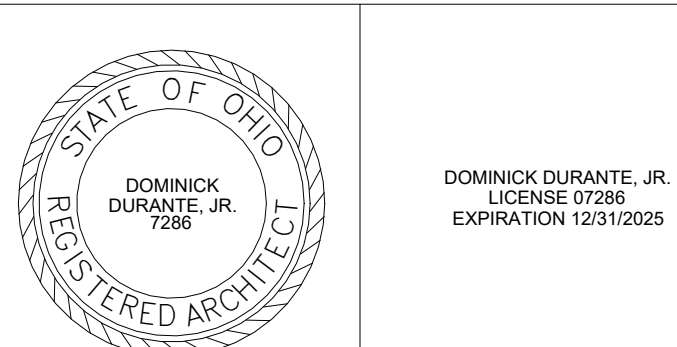
| ANSUL 1479 (ASTM E814) | CANULC S115 |
|-------------------------------------|---------------------------------------|
| F Ratings - 1 and 2 Hr (See Item 1) | F Ratings - 1 and 2 Hr (See Item 1) |
| T Rating - 1 and 2 Hr (See Item 1) | FT Ratings - 1 and 2 Hr (See Item 1) |
| | FH Ratings - 1 and 2 Hr (See Item 1) |
| | FTH Ratings - 1 and 2 Hr (See Item 1) |

Section A-A

- Fill, Void or Cavity Materials** - **Wrap** - Nom 0.4 in. (10 mm) thick flexible sheet material. One layer sized to cover back and four sides of steel box. At corners of steel box, wrap cut horizontally or vertically, extending from corner of steel box to edge of wrap material. Circular openings made in wrap material to accommodate pipes, tubes or conduits sized max 1/2 in. (13 mm) larger than the outside diameter of the pipe, tube, or conduit. Wrap material folded to maintain contact with back and four sides of steel box. Corners of wrap folded to overlap wrap at opposing sides. At overlap, nom 5/8 in. (16 mm) for 1 Hr and 1-1/2 in. (32 mm) strip of wrap removed. Cut edges and seams of wrap material covered with one layer of aluminum foil tape. Prior to application of wrap material, a bead of construction adhesive to be applied to the back and side of steel box at edge.
- Fill, Void or Cavity Materials** - **Putty or Sealant** - Min 1/2 in. (13 mm) thickness of sealant or putty applied into ends of pipes, tubes or conduits that terminate inside box. Additional putty or sealant to fill circular cutouts made to accommodate pipes, tubes or conduits. A min 1/4 in. (6 mm) diam bead or sealant applied to exposed edge of wrap material.

SPECIFIED TECHNOLOGIES INC - Thermal Barrier Wrap
SPECIFIED TECHNOLOGIES INC - SpecSeal Putty, SpecSeal SSS Sealant or SpecSeal LCI Sealant.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2298**

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|-------------------------|-------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 2 Hr | FT Rating - 2 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 2 Hr |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core **Precast Concrete Units**. Wall may also be constructed of any UL Classified **Concrete Blocks**. For nom 2-1/2 in. (64 mm) diam and smaller pipes and conduits, diam of opening shall be max 1/4 in. (6 mm) larger than nom pipe diam. For pipes and conduits greater than nom 2-1/2 in. (64 mm) diam of opening shall be max 1/2 in. (13 mm) larger than nom pipe diam. See **Concrete Blocks (CAZT)** or **Precast Concrete Units (CFTV)** categories in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One nonmetallic pipe or conduit to be centered within opening with a max 1/8 in. (3.2 mm) annular space for nom 2-1/2 in. (64 mm) diam and smaller pipes and conduits and a max 1/4 in. (6 mm) annular space for pipes and conduits greater than 2-1/2 in. (64 mm) diam. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes and conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

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Classified by Underwriters Laboratories, Inc. to ASTMUL 1479 (ASTM E814)

System No. F-A-2056

F Rating - 2 Hr
T Rating - 1/4 Hr

- Floor Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete.
- Shower/Floor Drain** - Polished brass or chromed steel shower drain or cast iron floor drain strainer installed to metallic floor drain stub (Item 3) prior to concrete placement.
- Metallic Floor Drain Stub** - Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe or cast/ductile iron pipe cast or grouted into concrete, flush with top of floor. Pipe to terminate 2 to 3 in. below bottom surface of floor.
- Nonmetallic Pipe** - Nom 4 in. diam (or smaller) Schedule 40 solid or cellular core polyvinyl chloride (PVC) or SDR17 chlorinated polyvinyl chloride (CPVC) pipe for use in vented (drain, waste or vent) piping systems.
- Compression Coupling** - Nonmetallic pipe to be secured to metallic floor drain stub with compression type high pressure pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps.
- Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material - Wrap Strip** - Nom 1/4 in. thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. wide strips. Three layers of wrap strip are individually wrapped around the nonmetallic drain pipe (Item 4) with the ends butted and held in place with masking tape. Butted ends in successive layers may be aligned or offset. The top edge of the wrap strips shall abut the bottom edge of the compression coupling (Item 5).
 - Steel Sleeve** - Cylindrical steel sleeve fabricated from min 0.016 in. thick (30 gauge) galv steel sheet. Sleeve to abut the bottom of the floor and project downward such that metallic pipe, compression coupling and wrap strips (Items 2, 3, 6A) are captured within sleeve. Sleeve to terminate at approx midpoint of wrap strips. Sleeve installed by wrapping sheet steel tightly around the metallic pipe, compression coupling and wrap strips with a min 1 in. lap. Sleeve temporarily held in place with glass cloth electrical tape.
 - Steel Collar** - Two collars fabricated from coils of precut 0.016 in. thick (30 gauge) galv steel sheet available from wrap strip manufacturer. Collar shall be nom 1-1/2 in. deep with min floor 1 in. wide by 2 in. long anchor tabs for securement to the concrete floor and retainer tabs, 3/4 in. wide tapering down to 1/4 in. wide and located opposite the anchor tabs, to retain the wrap strips. First collar, wrapped around bottom of the steel collar and the wrap strips, maintaining a min 1 in. wide overlap along its perimeter joint. Fold retainer tabs 90 degrees toward pipe surface to retain the wrap strips. Secure collar to steel sleeve with four No. 8 by 3/8 in. long steel sheet metal screws, symmetrically located. Second collar wrapped around top of steel sleeve, maintaining a min 1 in. wide overlap along its perimeter joint. Fold anchor tabs 90 degrees away from the through penetrant. Secure collar to steel sleeve with four No. 8 by 3/8 in. long steel sheet metal screws, symmetrically located. Collar secured to concrete surface with 1/4 in. diam by min 1-3/4 in. steel concrete anchors in conjunction with min 1/4 in. by 1-1/4 in. diam steel fender washers. Min four fasteners, symmetrically located, required.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-1080**

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Rating - 3 Hr | F Rating - 3 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 3 Hr |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |

- Floor or Wall Assembly** - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Block**. Max diam of opening is 32 in.
- See Concrete Block (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall range from min 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 30 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
 - Copper Tubing** - Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing.
 - Copper Pipe** - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber batt insulation fitted into annular space. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material - Caulk** - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location, apply min 1/4 in. diam bead of sealant at the pipe/concrete interface on the top surface of the floor or both surfaces of wall.
 - Specified Technologies Inc. - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2297**

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 2 and 3 Hr (See Item 4C) | F Ratings - 2 and 3 Hr (See Item 4C) |
| T Ratings - 0, 1, 2 and 3 Hr (See Item 4C) | FT Ratings - 0, 1, 2 and 3 Hr (See Item 4C) |
| L Rating At Ambient - Less Than 1 CFM/ft ² | FH Ratings - 2 and 3 Hr (See Item 4C) |
| L Rating At 400°F - Less Than 1 CFM/ft ² | FTH Ratings - 0, 1, 2 and 3 Hr (See Item 4C) |
| W Rating - Class 1 (See Item 4B) | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204°C - Less Than 5.1 L/s/m ² |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor or Wall Assembly** - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Except as footnoted in the table under Item 4C, min thickness of concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core **Precast Concrete Units**. Wall may also be constructed of any UL Classified **Concrete Blocks**. Diam of opening to be min 1/8 in. (3.2 mm) to max 1-1/2 in. (38 mm) larger than outside diam of pipe or conduit. See **Concrete Blocks (CAZT)** or **Precast Concrete Units (CFTV)** categories in the Fire Resistance Directory for names of manufacturers.
- Steel Sleeve** - (Optional, Not Shown) - Nom 5 in. (127 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe or nom 5 in. (127 mm) diam (or smaller) No. 20 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with nom 2 in. wide square or circular anchor flange spot welded to the sleeve at its approx mid-height. Sleeve cast or grouted into min 4-1/2 in. (114 mm) thick floor or wall assembly, flush with floor or wall surfaces.

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Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2297**

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 2 and 3 Hr (See Item 4C) | F Ratings - 2 and 3 Hr (See Item 4C) |
| T Ratings - 0, 1, 2 and 3 Hr (See Item 4C) | FT Ratings - 0, 1, 2 and 3 Hr (See Item 4C) |
| L Rating At Ambient - Less Than 1 CFM/ft ² | FH Ratings - 2 and 3 Hr (See Item 4C) |
| L Rating At 400°F - Less Than 1 CFM/ft ² | FTH Ratings - 0, 1, 2 and 3 Hr (See Item 4C) |
| W Rating - Class 1 (See Item 4B) | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204°C - Less Than 5.1 L/s/m ² |

- Through Penetrant** - One nonmetallic pipe or conduit to be installed eccentrically or concentrically within the firestop system. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 6 in. (152 mm) diam (or smaller) solid or cellular core Schedule 40 polyvinyl chloride (PVC) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 6 in. (152 mm) diam (or smaller) SDR 13.5 chlorinated polyvinyl chloride (CPVC) pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA 70).
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 6 in. (152 mm) diam (or smaller) solid or cellular core Schedule 40 acrylonitrile butadiene styrene (ABS) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Fire Retardant Polypropylene (FRPP) Pipe** - Nom 6 in. (152 mm) diam (or smaller) solid or cellular core Schedule 40 fire retardant polypropylene (FRPP) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - High Density Polyethylene (HDPE) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.
- Firestop System** - The firestop system shall consist of the following:
 - Packing Material** - (Not Shown) - When required, min 4 pcf (64 kg/m³) mineral wool batt insulation compressed and installed to the thickness specified in the table under Item 4C. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate sealant (Item 4B).
 - Fill, Void or Cavity Material - Sealant or Putty** - Fill material installed flush with top surface of floor or both surfaces of wall, as specified in the table under Item 4C.
 - Specified Technologies Inc. - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant, SpecSeal Putty or SpecSeal SIL300 Sealant for floors or walls and SpecSeal SIL300SL Sealant for floors only.**
 - W Rating applies only when a min 1/2 in. (13 mm) depth of SpecSeal SIL300 Sealant or SpecSeal SIL300SL Sealants are used.**
- Fill, Void or Cavity Material - Wrap Strip** - Nom 1/8 in. (3.2 mm) by 1-1/2 in. (38 mm) wide (RED2), nom 1/4 in. (6 mm) thick by 1-1/2 in. (38 mm) wide (RED), 3/16 in. (4.8 mm) by 2 in. (51 mm) wide (BLU) or 1/8 in. (3.2 mm) by 2 in. (51 mm) wide (BLU2) intumescent strips faced on both sides with a plastic film. Strips tightly wrapped around nonmetallic pipe with edges butted against the underside of the floor or both surfaces of the wall. The wrap strips may be installed with butted seams with butted seams in successive layers aligned or offset or continuously wrapped around through penetrant. Wrap strips are temporarily held in place with masking tape. The min number of layers required is dependent upon the pipe type, nom pipe diam, floor or wall thickness and the hourly F, T, FT, FH and FTH Ratings required, as shown in the following table:

| Rating | Min Layers |
|--------|------------|
| F | 3 |
| T | 2 |
| FT | 3 |
| FH | 3 |
| FTH | 3 |

(a) Where indicated, two sets of three wrap strip layers are "stacked" to attain a 3 in. (76 mm) wrap strip width for RED or RED2 wrap strip or a 4 in. (102 mm) wrap strip width for BLU or BLU2 wrap strip
* One stack of four layers of wrap strip, two layers of steel collar. See Item 4D.

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Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2297**

| Pipe Type | Max Diam (in./mm) | Min Concrete Thickness, Layers | Wrap Strip Type | Min No of Wrap Strip Layers | F Rating | T Rating | FT Rating | FH Rating | FTH Rating | Min Packing Material Depth (in./mm) | Min Fill Material Depth (in./mm) | Max Annular Space (in./mm) |
|-----------------------------------|-------------------|--------------------------------|------------------------|-----------------------------|----------|----------|-----------|-----------|------------|-------------------------------------|----------------------------------|----------------------------|
| PVC, cpPVC, CPVC, RNC, ABS, ccABS | 2 (51) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 1 | 2 | 1 | NA | 1/2 (13) | 1/16 (1.6) | 1/2 (13) | 1/16 (1.6) | |
| HDPE | 2 (51) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 1 | 2 | 2 | NA | 1/2 (13) | 3/4 (19) | 1/2 (13) | 1/16 (1.6) | |
| PVC, cpPVC, CPVC, RNC, ABS, ccABS | 2 (51) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 1 | 2 | 1 | 2 (51) | 1/2 (13) | 3/4 (19) | 1/2 (13) | 3/4 (19) | |
| HDPE | 2 (51) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 1 | 2 | 2 | 2 (51) | 1/2 (13) | 3/4 (19) | 1/2 (13) | 3/4 (19) | |
| PVC, cpPVC, CPVC, RNC, ABS, ccABS | 4 (102) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 2 | 2 | 1 | 2 (51) | 1/2 (13) | 3/4 (19) | 1/2 (13) | 3/4 (19) | |
| HDPE | 4 (102) | 2-1/2 (64) | RED, RED2, BLU or BLU2 | 2 | 2 | 2 | 2 (51) | 1/2 (13) | 3/4 (19) | 1/2 (13) | 3/4 (19) | |
| PVC, cpPVC, CPVC, RNC | 2 (51) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 1 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| HDPE | 2 (51) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 1 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| PVC, cpPVC, CPVC, RNC | 3 (76) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 2 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| HDPE | 3 (76) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 2 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| PVC, cpPVC, CPVC, RNC | 4 (102) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 3 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| HDPE | 4 (102) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 3 | 3 | 2 | NA | 1/4 (6) | 1/4 (6) | 1/4 (6) | 1/4 (6) | |
| PVC, cpPVC, CPVC, RNC | 6 (152) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 3(a) | 3 | 0 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| PVC, CPVC, RNC | 6 (152) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 4* | 3 | 3 | 4 (102) | 1/2 (13) | 1/4 (6) | 1/4 (6) | 1/2 (13) | |
| PVC, cpPVC, CPVC, RNC, FRPP | 6 (152) | 4-1/2 (114) | RED, RED2, BLU or BLU2 | 3(a) | 3 | 2 | NA | 1/4 (6) | 3/16 (4.8) | 1/4 (6) | 3/16 (4.8) | |
| ABS, ccABS | 2 (51) | 4-1/2 (114) | RED, RED2 | 1 | 3 | 0 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 2 (51) | 4-1/2 (114) | BLU or BLU2 | 1 | 3 | 2 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 3 (76) | 4-1/2 (114) | RED, RED2 | 2 | 2 | 0 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 3 (76) | 4-1/2 (114) | BLU or BLU2 | 2 | 3 | 2 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 4 (102) | 4-1/2 (114) | RED, RED2 | 3 | 2 | 0 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 4 (102) | 4-1/2 (114) | BLU or BLU2 | 3 | 3 | 2 | NA | 1/4 (6) | 1/2 (13) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 6 (152) | 4-1/2 (114) | RED, RED2 | 4* | 2 | 2 | 4 (102) | 1/2 (13) | 1/4 (6) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS | 6 (152) | 4-1/2 (114) | RED, RED2 | 3(a) | 3 | 0 | NA | 1/2 (13) | 3/8 (10) | 1/4 (6) | 1/2 (13) | |
| ABS, ccABS, FRPP | 6 (152) | 4-1/2 (114) | BLU or BLU2 | 3(a) | 3 | 3 | NA | 1/2 (13) | 3/8 (10) | 1/4 (6) | 1/2 (13) | |

(a) Where indicated, two sets of three wrap strip layers are "stacked" to attain a 3 in. (76 mm) wrap strip width for RED or RED2 wrap strip or a 4 in. (102 mm) wrap strip width for BLU or BLU2 wrap strip
* One stack of four layers of wrap strip, two layers of steel collar. See Item 4D.

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Classified by Underwriters Laboratories, Inc. to ANSI/UL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2297**

| ANSI/UL1479 (ASTM E814) | CANULC S115 |
|---|---|
| F Rating - 3 Hr | F Rating - 3 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft | FH Rating - 3 Hr |
| L Rating At 400 F - Less Than 1 CFM/sq ft | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft |
| | L Rating At 400 F - Less Than 1 CFM/sq ft |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Fill, Void or Cavity Material - Wrap Strip** - (Not Shown) - As an alternate to Item 4C for nom 2 in., 3 in. and 4 in. (51, 76 and 102 mm) diam pipes, pre-cut intumescent wrap strip faced on both sides with a plastic film sized to fit the OD of the pipe. The size of the intumescent wrap strip for each pipe size is tabulated below:

| Nom Pipe Diam. (in./mm) | Wrap Strip Thick. x Width x Length, (in./mm) |
|-------------------------|--|
| 2 (51) | SSW 125 1/8 x 1-1/2 x 8-7/8 |
| 3 (76) | SSW 250 1/4 x 1-1/2 x 12-1/8 |
| 4 (102) | SSW 375 3/8 x 1-1/2 x 16 |
- Specified Technologies Inc. - SpecSeal SSW125, SSW250, or SSW375 Wrap Strip**
- Steel Collar** - Nom 1-1/2 in. (38 mm), 2 in. (51 mm), 3 in. (76 mm) or 4 in. (102 mm) deep collar, dependent upon wrap strip width, with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for attachment to concrete and min 3/4 in. (19 mm) wide retaining tabs tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs. Steel collar, with anchor tabs bent outward 90 deg, wrapped tightly around wrap strip layers with min 1 in. (25 mm) overlap at seam. Retainer tabs to be bent 90 deg toward pipe to lock wrap strips in position. Anchor tabs to be pressed tightly against floor or wall surface(s), and collar to be secured in place with one 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp. Two hand clamps are required for 3 in. high (or higher) collar on 6 in. (152 mm) pipe. As an alternate to the hose clamps on 1-1/2 in. (38 mm) and 2 in. (51 mm) deep collar, collar secured together by means of three No. 8 by 1/4 in. (6 mm) long steel screws. Collar to be secured to floor or wall surface(s) with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers. As an alternate to the steel concrete screws, nom 1-1/4 in. (32 mm) long steel powder actuated fasteners provided with 3/4 in. (19 mm) diam steel washers or nom 3/4 in. (19 mm) long steel powder actuated fasteners provided with 1 in. (25 mm) diam steel washers may be used to secure anchor tabs. The number of fasteners is dependent upon the nom diam of the through penetrant. Min two fasteners, symmetrically located, are required for nom 1-1/2 in. (38 mm) through 2 in. (51 mm) diam through penetrants. Min three fasteners, symmetrically located, are required for nom 2-1/2 in. (64 mm) through 3 in. (76 mm) diam through penetrants. Min four fasteners, symmetrically located, are required for nom 3-1/2 in. (89 mm) through 4 in. (102 mm) diam through penetrants. Min six fasteners, symmetrically located, are required for nom 6 in. (152 mm) diam through penetrants.
- *When using one stack of four layers of wrap strip for nom 6 in. (152 mm) diam pipes, two layers of nom 1-1/2 or 2 in. (38 or 51 mm) deep collar (dependent upon wrap strip width) is to be wrapped around wrap strip and penetrant with min 1 in. (25 mm) overlap.
- Firestop Device** - (Not Shown) - As an alternate to Items C and D, a firestop device consisting of a galv steel collar lined with an intumescent material sized to fit the specific diam of the through penetrant may be used. Device shall be installed around through penetrant in accordance with the accompanying installation instructions. Device incorporates anchor tabs for securement to bottom surface of floor or both surfaces of wall assembly by means of 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers. As an alternate to the steel concrete screws, nom 1-1/4 in. (32 mm) long steel powder actuated fasteners provided with 3/4 in. (19 mm) diam steel washers or nom 3/4 in. (19 mm) long steel powder actuated fasteners provided with 1 in. (25 mm) diam steel washers may be used to secure anchor tabs.

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
19

| REV | DATE | DESCRIPTION |
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Classified by Underwriters Laboratories, Inc. to ANSIUL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-2298**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|------------------------|-------------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 2 Hr | FT Rating - 2 Hr |
| | FH Rating - 2 Hr |
| | FTH Rating - 2 Hr |

Section A-A

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. For nom 2-1/2 in. (64 mm) diam and smaller pipes and conduits, diam of opening shall be max 1/4 in. (6mm) larger than nom pipe diam. For pipes and conduits greater than nom 2-1/2 in. (64 mm) diam of opening shall be max 1/2 in. (13 mm) larger than nom pipe diam. See Concrete Blocks (CAZT) or Precast Concrete Units (CFTU) categories in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One nonmetallic pipe or conduit to be centered within opening with a max 1/8 in. (3.2 mm) annular space for nom 2-1/2 in. (64 mm) diam and smaller pipes and conduits and a max 1/4 in. (6 mm) annular space for pipes and conduits greater than 2-1/2 in. (64 mm) diam. Pipe or conduit to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of nonmetallic pipes and conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

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Classified by Underwriters Laboratories, Inc. to ANSIUL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-5010**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Ratings - 2 and 3 Hr (See Item 2) | F Ratings - 2 and 3 Hr (See Item 2) |
| T Ratings - 1 and 3 Hr (See Item 2) | FT Ratings - 1 and 3 Hr (See Item 2) |
| L Rating At Ambient - Less Than 1 CFM/ft ² | FH Ratings - 2 and 3 Hr (See Item 2) |
| L Rating At 400°F - Less Than 1 CFM/ft ² | FTH Ratings - 1 and 3 Hr (See Item 2) |
| W Rating - Class 1 (See Items 3D and 4B) | L Rating At Ambient - Less Than 5.1 L/m ² |
| | L Rating At 204°C - Less Than 5.1 L/m ² |

Section A-A

- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 8 in. (203 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Through-Penetrant** - One metallic pipe or tubing installed either concentrically or eccentrically within opening. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of penetrants may be used:
 - Steel Pipe** - Nom 2 in. (51 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 2 in. (51 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe or Class 50 (or heavier) ductile iron pressure pipe.
 - Copper Tubing** - Nom 2 in. (51 mm) diam (or smaller) Type M (or heavier) copper tubing.
 - Copper Pipe** - Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

When copper tubing or copper pipe is used, F and FH Ratings are 2 hr and T, FT and FTH Ratings are 1 hr. When steel or iron pipe is used, F, T, FT, FH and FTH Ratings are 3 hr.

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Classified by Underwriters Laboratories, Inc. to ANSIUL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-8084**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|------------------------|-----------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 14 Hr | |

Section A-A

- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 3-1/2 in.
- Steel Sleeve** - (Optional) Nom 3-1/2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into concrete. Steel sleeve may be installed flush or may project a max 2 in. beyond the floor or wall surfaces.
- Through Penetrants** - A max of two pipes, conduits or tubing to be installed within the opening. The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in. Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 3/4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 3/4 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 3/4 in. diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
 - Copper Pipe** - Nom 3/4 in. diam (or smaller) regular (or heavier) copper pipe.
 - Copper Tube** - Nom 3/4 in. diam (or smaller) Type L (or heavier) copper tube.
- Tube Insulation - Plastics** - Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PBC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tubing. The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in.

See Plastics (CMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
- Cables** - Max four pair No. 18 AWG (or smaller) copper conductor thermostat cable with PVC insulation and jacket. Cable space 0 in. (point contact) to max 1-1/2 in. from insulated and bare penetrants. The annular space between the cable and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in. Cable rigidly supported on both sides of floor or wall assembly.

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Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814) **System No. F-A-2022**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|--|---------------------------------------|
| F Rating - 2 Hr | F Ratings - 2 and 3 Hr (See Item 2) |
| T Rating - 3/4 Hr | FT Ratings - 1 and 3 Hr (See Item 2) |
| L Rating At Ambient - 1 and 18 CFM/sq ft (See Item 4D) | FH Ratings - 2 and 3 Hr (See Item 2) |
| L Rating At 400 F - Less Than 1 CFM/sq ft and 31 CFM/sq ft (See Item 4D) | FTH Ratings - 1 and 3 Hr (See Item 2) |

Section A-A

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Max diam of opening is 6 in. (152 mm).
- Metallic Sleeve** - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor assembly, flush with floor surfaces.
- Through-Penetrants** - One nonmetallic pipe or conduit to be centered within the freestop system. A nom annular space of 9/16 in. (14 mm) to 3/4 in. (19 mm) is required within the freestop system for nom 3 in. (76 mm) or 4 in. (102 mm) diam pipes. A nom annular space of 5/16 in. (8 mm) to 1/2 in. (13 mm) is required within the freestop system for nom 2 in. (51 mm) diam pipes. Pipe or conduit to be rigidly supported on both sides of the floor assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
 - Polyvinylidene Fluoride (PVDF) Pipe** - Nom 4 in. (102 mm) diam (or smaller) schedule 40 PVDF for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

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Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814) **System No. F-A-2022**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|--|---------------------------------------|
| F Rating - 2 Hr | F Ratings - 2 and 3 Hr (See Item 2) |
| T Rating - 3/4 Hr | FT Ratings - 1 and 3 Hr (See Item 2) |
| L Rating At Ambient - 1 and 18 CFM/sq ft (See Item 4D) | FH Ratings - 2 and 3 Hr (See Item 2) |
| L Rating At 400 F - Less Than 1 CFM/sq ft and 31 CFM/sq ft (See Item 4D) | FTH Ratings - 1 and 3 Hr (See Item 2) |

Section A-A

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Max diam of opening is 6 in. (152 mm).
- Metallic Sleeve** - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor assembly, flush with floor surfaces.
- Through-Penetrants** - One nonmetallic pipe or conduit to be centered within the freestop system. A nom annular space of 9/16 in. (14 mm) to 3/4 in. (19 mm) is required within the freestop system for nom 3 in. (76 mm) or 4 in. (102 mm) diam pipes. A nom annular space of 5/16 in. (8 mm) to 1/2 in. (13 mm) is required within the freestop system for nom 2 in. (51 mm) diam pipes. Pipe or conduit to be rigidly supported on both sides of the floor assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
 - Polyvinylidene Fluoride (PVDF) Pipe** - Nom 4 in. (102 mm) diam (or smaller) schedule 40 PVDF for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

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Classified by Underwriters Laboratories, Inc. to ANSIUL 1479 (ASTM E814) and CANULC S115 **System No. C-AJ-8084**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|------------------------|-----------------|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 14 Hr | |

Section A-A

- Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core Precast Concrete Units*. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 3-1/2 in.
- Steel Sleeve** - (Optional) Nom 3-1/2 in. diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into concrete. Steel sleeve may be installed flush or may project a max 2 in. beyond the floor or wall surfaces.
- Through Penetrants** - A max of two pipes, conduits or tubing to be installed within the opening. The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in. Pipes, conduits or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** - Nom 3/4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
 - Iron Pipe** - Nom 3/4 in. diam (or smaller) cast or ductile iron pipe.
 - Conduit** - Nom 3/4 in. diam (or smaller) rigid steel conduit or steel electrical metallic tubing (EMT).
 - Copper Pipe** - Nom 3/4 in. diam (or smaller) regular (or heavier) copper pipe.
 - Copper Tube** - Nom 3/4 in. diam (or smaller) Type L (or heavier) copper tube.
- Tube Insulation - Plastics** - Nom 1/2 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PBC) flexible foam furnished in the form of tubing. The tube insulation may be installed on a max of one pipe or tubing. The annular space between the pipes, conduits or tubing and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in.

See Plastics (CMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
- Cables** - Max four pair No. 18 AWG (or smaller) copper conductor thermostat cable with PVC insulation and jacket. Cable space 0 in. (point contact) to max 1-1/2 in. from insulated and bare penetrants. The annular space between the cable and the periphery of the opening shall be min 0 in. (point contact) to max 1-1/2 in. Cable rigidly supported on both sides of floor or wall assembly.

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Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814) **System No. F-A-2022**

| ANSIUL1479 (ASTM E814) | CANULC S115 |
|--|---------------------------------------|
| F Rating - 2 Hr | F Ratings - 2 and 3 Hr (See Item 2) |
| T Rating - 3/4 Hr | FT Ratings - 1 and 3 Hr (See Item 2) |
| L Rating At Ambient - 1 and 18 CFM/sq ft (See Item 4D) | FH Ratings - 2 and 3 Hr (See Item 2) |
| L Rating At 400 F - Less Than 1 CFM/sq ft and 31 CFM/sq ft (See Item 4D) | FTH Ratings - 1 and 3 Hr (See Item 2) |

Section A-A

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Max diam of opening is 6 in. (152 mm).
- Metallic Sleeve** - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor assembly, flush with floor surfaces.
- Through-Penetrants** - One nonmetallic pipe or conduit to be centered within the freestop system. A nom annular space of 9/16 in. (14 mm) to 3/4 in. (19 mm) is required within the freestop system for nom 3 in. (76 mm) or 4 in. (102 mm) diam pipes. A nom annular space of 5/16 in. (8 mm) to 1/2 in. (13 mm) is required within the freestop system for nom 2 in. (51 mm) diam pipes. Pipe or conduit to be rigidly supported on both sides of the floor assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste, or vent) piping systems.
 - Flame Retardant Polypropylene (FRPP) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
 - Polyvinylidene Fluoride (PVDF) Pipe** - Nom 4 in. (102 mm) diam (or smaller) schedule 40 PVDF for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

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| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. C-AJ-8113

| ANSUL1479 (ASTM E814) | CANULC S115 |
|---|--|
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Ratings - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9) | FT Ratings - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9) |
| | FH Rating - 2 Hr |
| | FTTH Ratings - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9) |

1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1024 sq in. (6.66 m²) with a max height of 32 in. (813 mm) when installed in a wall or a max height of 32 in. (813 mm) when installed in a floor.

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Penetrants** - One or more metallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. **Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT), or nom 4 in. (102 mm) diam (or smaller) steel Flexible Metal Conduit.

D. **Copper Pipe or Tube** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type M (or heavier) copper tube.

E. **Stainless Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) stainless steel pipe.

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| Type of Metallic Penetrant | Max Dim of Through Penetrants, (in./mm) | T, FT, FTH Rating, Hr |
|--|---|-----------------------|
| Steel, Stainless Steel or Iron Pipe, Conduit | 12 (305) | 0 |
| Copper Pipe or Tube | 6 (152) | 0 |
| Steel or Iron Pipe, Conduit or EMT | 4 (102) | 1/4 |
| Steel or Iron Pipe, Conduit or EMT | 2 (51) | 1/2 |
| Steel or Iron Pipe, Conduit or EMT | 1 (25) | 3/4 |

3. **Pipe Insulation** - One or more max 4 in. (102 mm) metallic pipes or tubes may be insulated. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 1/2 in. (13 mm) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types of pipe insulation may be used:

A. **Pipe and Equipment Covering Materials*** - Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. **When Item 3A is used, T, FT and FTH Ratings are 3/4 Hr.**

See **Pipe and Equipment Covering Materials (BRGU)** category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

B. **Pipe Covering Materials*** - Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nominal density of 3.5 pcf (56 kg/m³) (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 6 AWG steel wire spaced max 12 in. (305 mm) OC. **When Item 3B is used, T, FT and FTH Ratings are 2 Hr.**

INDUSTRIAL INSULATION GROUP L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermalco.

C. **Sheathing Material*** - Use in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer surface of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape.

See **Sheathing Materials (BVDV)** category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

D. **Tube Insulation-Plastics#** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. **When Item 3D is used, T, FT and FTH Ratings are 1/2 Hr.**

See **Plastics (GMFZ2)** category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-V0 may be used.

E. **Pipe Covering Materials - Cellular Glass Insulation** - Nom 2 to 3 in. (51 to 76 mm) thick cellular glass units sized to the outside diam of the pipe or tube and supplied in nom 24 in. (610 mm) long half sections or nom 18 in. (457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. **When Item 3E is used, T, FT and FTH Ratings are 2 Hr.**

F. **Metal Jacket** - Used in conjunction with Item 3E. Min 12 in. (305 mm) long jacket formed from min 0.010 in. (0.25 mm) thick aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap and secured using bands and seals of a similar material or Nom 18 AWG steel tie wire. Bands or steel tie wire to be located within 2 in. (51 mm) of each end of the jacket and spaced max 10 in. (254 mm) OC. Jacket installed with edge abutting surface of fill material (Item 10B) on top surface of floor or both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required on the pipe covering.

G. **Pipe and Equipment Covering Materials*** - Nom 2 to 3 in. (51 to 76 mm) thick hollow cylindrical calcium silicate (min 14 pcf or 224 kg/m³) units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless steel bands or min 6 AWG stainless steel wire spaced max 12 in. (305 mm) OC. **When Item 3G is used, T, FT and FTH Ratings are 2 Hr.**

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4. **Nonmetallic Penetrants** - One or more nonmetallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants and periphery of opening is min 1 in. (25 mm) to max 24 in. (609 mm). Separation between metallic and nonmetallic penetrants is min 6 in. (152 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

A. **Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

C. **Rigid Nonmetallic Conduit** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NECA 70).

D. **Electrical Nonmetallic Tubing (ENT)*** - Nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT formed of polyvinyl chloride (PVC) installed in accordance with Article 770 of the National Electrical Code (NECA 70).

E. **Optical Fiber Raceway*** - Nom 2 in. (51 mm) diam (or smaller) optical fiber raceway (innerduct). Optical fiber raceway installed in accordance with Article 770 of the National Electrical Code (NECA 70).

When Item 4 is used, the T, FT and FTH Ratings of the firestop system are 2 Hr.

5. **Cables** - Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Annulus between cable bundle and periphery of opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable bundle and metallic or nonmetallic penetrants shall be min 6 in. (152 mm). Cable bundle rigidly supported on both sides of floor or wall assembly. The following types and sizes of cables may be used:

A. Max 1/1C - 1000 kcmil cable with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and jacket.

B. Max 7/C - 12 AWG cable with PVC-nylon insulation and PVC jacket.

C. Max 400 pair - No. 24 AWG copper conductor telephone cable with PVC insulation and jacket.

D. Max RGL coaxial cables with fluorinated ethylene jacket and insulation.

E. Multiple fiber optic cables with PVC insulation.

F. **Through Penetrating Products*** - Max 4 AWG with ground No. 2/0 AWG **Metal-Clad Cables**.

AFC CABLE SYSTEMS INC
When cables are used, T, FT and FTH Ratings are 1/4 Hr.

6. **Cable Tray** - Max 30 in. (762 mm) wide by max 6 (182 mm) deep open ladder cable tray with channel-shaped side rails formed from min 0.060 in. (1.5 mm) thick No. 16 MSG galv steel or min 0.060 in. (1.5 mm) thick aluminum with rungs spaced max 9 in. (229 mm) OC. A max of two cable trays may be installed within the opening with a min vertical separation of 4 in. (102 mm) and a min horizontal separation of 1/4 in. (6 mm) between trays. Max vertical or horizontal separation is 24 in. (609 mm). Annulus between the cable tray and the periphery of the opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable tray and metallic or nonmetallic penetrants is min 6 in. (152 mm). Cable trays to be rigidly supported on both sides of the floor or wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in Item 5 may be used. **When cable tray is used, T, FT and FTH Ratings are 1/2 Hr.**

7. **Buway*** - Nom 19 in. (483 mm) wide (or smaller) by 6 in. (152 mm) deep "T" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or max 26 in. (660 mm) deep by max 6 in. (152 mm) deep "T" shaped aluminum enclosure containing factory mounted aluminum bars rated for 600 V, 4000 A. A max of two buways may be installed within the opening with a min separation of 1 in. (25 mm) to max 24 in. (609 mm). The annular space between the buway and the periphery of the opening shall be a min 0 in. (point contact) to a max 24 in. (609 mm). Buways spaced min 6 in. (152 mm) from all other penetrants. Buway to be rigidly supported on both sides of floor or wall assembly. The buway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70. **When buway is used, the T, FT and FTH Ratings are 1/4 Hr.**

8. **Air Conditioning (AC) Line Set** - Nom 2 in. (51 mm) diam (or smaller) AC line set installed within opening. Each AC line set consists of two pipes or tubes (Item BA), tubing insulation (Item BB) and a thermostat cable (Item BC). The space between the AC line sets shall be min 2 in. (51 mm). The space between the AC line sets and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (609 mm). The AC line sets shall be spaced min 6 in. (152 mm) from uninsulated metallic penetrants and shall be rigidly supported on both sides of the floor or wall assembly.

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8A. **Through Penetrant** - A max of two pipes or tubes to be installed in each AC line set. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). The following types and sizes of through penetrants may be used:

A. **Steel Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe** - Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.

C. **Copper Pipe** - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

D. **Copper Tube** - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.

E. **Stainless Steel Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) stainless steel pipe.

8B. **Tube Insulation - Plastics#** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on one max 3/4 in. (19 mm) diam pipe or tube in each AC line set. The space between the insulated and uninsulated pipes or tubes within each AC line set shall be 0 in. (point contact). See **Plastics (GMFZ2)** category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94VA may be used.

8C. **Cable** - One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials may be installed with each AC line set. **When Item 8 is used, the T, FT and FTH Ratings of the firestop system are 1/4 Hr.**

9. **Steel Duct** - (Not Shown) Nom 12 in. (305 mm) diameter (or smaller) No. 30 GA (or heavier) steel duct installed within opening when opening contains no cables or cable tray. A max of two steel ducts may be installed within the through-opening. Ducts to be spaced min 4 in. (102 mm) apart and min 8 in. (203 mm) from insulated penetrants and nonmetallic penetrants. Annulus between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (609 mm). Cable trays to be rigidly supported on both sides of floor or wall assembly. **When steel duct is used, the T, FT or FTH Ratings are 0 Hr.**

10. **Firestop System** - The firestop system shall consist of the following items:

A. **Packing Material** - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation tightly packed into opening. Packing material recessed from top surface of floor assembly or from both surfaces of wall or port concrete units to accommodate the required thickness of fill material.

B. **Fill, Void or Cavity Materials*** - Sealant - Min 1/2 in. (13 mm) depth of fill material applied within the annulus. Flush with top surface of floor assembly or with both surfaces of the wall assembly. Additional fill material forced into interstices of grouped cables and grouped cables within cable trays. At point contact location between penetrant and concrete, a min 3/8 in. (9.5 mm) diam of fill material shall be applied at that contact/concrete interface on top surface of floor or both surfaces of the wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
#Bearing the UL Recognized Components Mark
#Bearing the UL Listing Mark

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Classified by Underwriters Laboratories, Inc. to ANSUL 1479 (ASTM E814) and CANULC S115

System No. C-AJ-8181

| ANSUL1479 (ASTM E814) | CANULC S115 |
|--|--|
| F Ratings - 2 and 3 Hr (See Items 4, 6, 7 and 8) | F Ratings - 2 and 3 Hr (See Items 4, 6, 7 and 8) |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| L Rating At Ambient - Less Than 1 CFM/sq ft (See Item 1) | FH Ratings - 2 and 3 Hr (See Items 4, 6, 7 and 8) |
| L Rating At 400 F - Less Than 1 CFM/sq ft (See Item 1) | FTH Rating - 0 Hr |
| | L Rating At Ambient - Less Than 1 CFM/sq ft (See Item 1) |
| | L Rating At 400 F - Less Than 1 CFM/sq ft (See Item 1) |

1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Block***. Max area of opening 96 sq ft (8.94 m²) with one dimension of opening being 36 in. (914 mm) or less.

See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.

L Ratings apply only when Items 2 and 7 are used. L Ratings do not apply when Items 3 through 8 are used.

2. **Pipe or Conduit** - One or more metallic pipes, conduits or tubing installed within the through opening. The space between penetrants shall be min 1 in. (25 mm). The space between penetrants and periphery of opening shall be min 1 in. (25 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT) or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

D. **Copper Pipe or Tube** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type L (or heavier) copper tube.

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3. **Cables** - One or more max 4 in. (102 mm) diam tight bundle of cables. Cable bundle spaced min 4 in. (102 mm) from all other penetrants. Min clearance between cable bundle and periphery of opening is 1/4 in. (6 mm). Cable bundles rigidly supported on both sides of floor or wall assembly. The following types and sizes of cables may be used:

A. Max 400 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation or with plenum rated jacketing and insulation.

B. Max 1200 kcmil single copper conductor power cable with XLPE jacket and insulation.

C. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.

D. Max 3/C No. 10 AWG metal clad or armored cable with steel or aluminum jacket.

E. Max 3/C No. 8 AWG NM cable (Romex) with PVC insulation and jacket.

F. Max 400 pair No. 22 AWG (or smaller) copper conductor data cable with plenum or non-plenum rated jacketing and insulation.

G. Max 400 pair No. 22 AWG (or smaller) copper conductor data cable with plenum or non-plenum rated jacketing and insulation.

H. Max RGL coaxial cable with plenum or non-plenum rated insulation and jacketing.

I. Fiber optic cable with plenum or non-plenum rated jacket and insulation having a max diam of 5/8 in. (16 mm).

J. Aluminum or steel armored optical fiber cables jacketed with plenum or non-plenum rated jacket and insulation having a max diam of 5/8 in.

4. **Telephone Riser Cable** - One or more multiconductor telephone riser cable with max 22 AWG copper conductors insulated with PVC skinned expanded polyethylene. Conductors encased in an overlapped corrugated aluminum shield with a PVC jacket. Outside diam of riser cable not to exceed 3-1/4 in. (82.6 mm). Aggregate cross-sectional area of copper conductors within riser cable not to exceed 1.14 sq in. (735 mm²). Cables spaced min 4 in. (102 mm) from all other penetrants. Min clearance between cable and periphery of opening is 1/4 in. (6 mm). Cables to be rigidly supported on both sides of floor or wall assembly. **When Items 4 is used, the F and FH Ratings are 2 Hr.**

5. **Cable Tray** - One or more open-ladder cable trays may be installed within the opening with a min separation of 8 in. (203 mm) between trays. Steel cable tray to be max 36 in. (914 mm) wide by max 5 in. (127 mm) deep with channel-shaped side rails and with rungs spaced max 9 in. (229 mm) OC. Aluminum cable tray to be max 24 in. (610 mm) wide by max 5 in. (127 mm) deep with channel-shaped side rails and with rungs spaced max 9 in. (229 mm) OC. Min annular space between cable tray and edge of opening is 1 in. (25 mm). Cable tray spaced min 4 in. (102 mm) from all other penetrants. Cable tray to be supported on both sides of floor or wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 39 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in Item 3 may be used.

6. **Buway*** - (Not Shown) - One or more max 19 in. (483 mm) wide by 5 in. (127 mm) deep "T" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or aluminum bars rated for 600 V, 4000 A. Buway to be rigidly supported on both sides of wall assembly. The annular space between the buway and the periphery of the opening shall be min 1 in. (25 mm). Buways spaced min 6 in. (152 mm) from all other penetrants. The buway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70. **When Items 6 is used, the F and FH Ratings are 2 Hr.**

7. **Duct** - (Not Shown) - One or more max 12 in. (305 mm) min No. 24 gauge (0.61 mm) rectangular steel duct or max 12 in. (305 mm) min No. 28 gauge (0.38 mm) round steel duct, to be installed within the firestop system. Ducts to be spaced min 4 in. (102 mm) from all other penetrants. The clearance between the steel ducts and the periphery of the opening shall be min 1 in. (25 mm). Steel retaining angles (Item 8D) are required to be used with rectangular steel duct. Steel duct to be rigidly supported on both sides of floor or wall assembly. **When Items 7 is used, the F and FH Ratings are 2 Hr.**

8. **Firestop System** - The firestop system shall consist of the following:

A. **Fill, Void or Cavity Materials*** - Putty or Sealant - Min 3/16 in. (5 mm) thick bead of putty required around entire periphery of each penetrant. Width of putty bead installed as required for F and FH Ratings as shown in table below. Adjoining lengths of putty strands butted together by hand. One layer of putty required around penetrants on top side of floor or both sides of wall assembly. Bands of putty installed to project beyond each face of the composite sheet (Item 8B) on both sides of floor or wall assembly as required for the F and FH Ratings as shown in the table below. An alternate to the putty described above, sealant may be used. One layer of 3/16 in. wide by 3/16 in. (5 mm) thick putty strip or 3/16 in. (5 mm) diam bead of caulk positioned under composite sheet around entire perimeter of through opening on top surface of floor or both sides of the wall. Generous application of putty to be applied around the base of the penetrants at their egress from the intumescent sheet on top side of the floor or both sides of the wall assembly. Caulk or putty to be applied into interstices between cables to max extent possible and into annular space between the cables or cable tray and the edges of the opening in the composite sheet.

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| F and FH Rating (a) | Putty/Sealant Strip Width, in./mm | Putty/Sealant Projection Beyond Annular Space, in./mm | Putty/Sealant Projection Beyond Composite Sheet to Wall Assembly, in./mm |
|---------------------|---|---|--|
| 2 Hr | 2 in. (51 mm) in Floor Assembly; 2 in. (51 mm) in Wall Assembly | 1 in. (25 mm) beyond each face | 1 in. (25 mm) beyond each face |
| 3 Hr | 4 in. (102 mm) in Floor Assembly; 4 in. (102 mm) greater than full depth of Wall Assembly | 2 in. (51 mm) above; 4 in. (102 mm) below | 2 in. (102 mm) beyond each face |

(a) - When pipe or conduits (Item 2) are used the Putty/Sealant requirements for 3 Hr F and FH Ratings are identical to the requirements shown in the 2 Hr F and FH Rating row.

SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Putty, SpecSeal SSS Sealant or SpecSeal LCI Sealant. When optional wrap strip (Item BA) fill material is used, SpecSeal SIL300 Sealant may be used.

A1. **Fill, Void or Cavity Materials* - Wrap Strip** - (Optional, Not Shown) - Nom 1/8 in. (3.2 mm) by 1-1/2 in. (38 mm) wide (RED2), nom 1/4 in. (6 mm) thick by 1-1/2 in. (38 mm) wide (RED), 3/16 in. (4.8 mm) by 2 in. (51 mm) wide (BLU) or 1/8 in. (3.2 mm) by 2 in. (51 mm) wide (BLU2) intumescent strips faced on both sides with a plastic film. Strip tightly wrapped around penetrant with butted seam. Wrap strip to extend equal distance beyond both surfaces of composite sheet (Item 8B). When optional wrap strip is used on grouped cables in bundle or cable tray, the cable interstices shall be filled with a min 2 in. (51 mm) depth of putty or sealant within the wrap strip.

SPECIFIED TECHNOLOGIES INC - SpecSeal RED2, SpecSeal RED, SpecSeal BLU or SpecSeal BLU2 Wrap Strip

B. **Fill, Void or Cavity Materials* - Composite Sheet** - Foil-faced sheet with galv steel sheet backer. Sheets may be installed as one solid sheet, cut in two pieces or split on one side of the penetrant(s). Opening in intumescent sheet to be max 1/4 in. (6 mm) larger than through penetrants. Sheets cut to lap a min of 2 in. (51 mm) on the floor or wall surfaces. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against floor or wall surface) and secured to floor or wall surface with min 3/16 in. (5 mm) diam by 1-1/4 in. (32 mm) long steel concrete screws, min 0.145 in. (3.7 mm) diam by 1 1/4 in. (32 mm) long powder actuated fasteners in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers, or min 0.145 in. (3.7 mm) diam by 3/4 in. (19 mm) long powder actuated fasteners in conjunction with min 1 in. (25 mm) diam steel fender washers. Max spacing of fasteners not to exceed 7 in. (178 mm) with additional fasteners located on each side of butted seams or slits made to permit installation of the sheet around the penetrants. In floor applications, sheet installed on top surface of floor. In wall applications, sheets installed on both sides of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal Composite Sheet

C. **Steel Cover Strip** - Min 2 in. (51 mm) wide strip of min 0.018 in. (0.46 mm) thick galv steel centered over entire length of each butted seam or slit made in the intumescent sheet (Item 8B). Prior to installation of the steel strip, the seam or slit in the intumescent sheet shall be covered with a nom 1/8 in. (3.2 mm) by 13 mm ribbon of putty (Item 8A). Steel cover strip secured to galv steel sheet backer of composite sheet with steel sheet metal screws or steel rivets spaced max 3 in. (76 mm) OC on each side of seam or slit.

D. **Retaining Angles** - (Not Shown) - Min 2 in. (51 mm) by 2 in. (51 mm) No. 16 gauge (1.5 mm, or heavier) galv steel angles installed on all four sides of rectangular duct on top surface of floor or on both surfaces of wall. Angles on two opposing sides of duct to extend the full length of composite sheet (max 40 in.) such that the ends extend over the floor or wall surface by 2 in. Angles attached to duct with min 1/4 in. (6 mm) long No. 10 (or larger) steel sheet metal screws, spaced a max of 1 in. (25 mm) from each end of duct and spaced a max of 6 in. (152 mm) OC. In floor, angles additionally attached to intumescent sheet with min 1/4 in. (6 mm) long No. 10 (or larger) steel sheet metal screws spaced a max of 6 in. (152 mm) OC.

E. **Support Channel** - (Not Shown) - When area of through opening exceeds 10 sq ft (0.93 m²), support channels to be used behind min one continuous seam in composite sheet (Item 8B) flush with the top edge of the floor or both surfaces of the wall. Max spacing between support channels or between support channel and end of slot is 48 in. (1.22 m). Support channels to be min 1.58 in. (41 mm) by 1.58 in. (41 mm) min 12 gauge (2.4 mm) painted or galv steel. Ends of steel channel bolted or welded to steel angles anchored to walls into opening at both ends of channel. Composite sheet secured to steel support channels with steel sheet metal screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers spaced max 6 in. (152 mm) OC. Support channel may be used beneath butted seam of intumescent sheets or isolated away from intumescent sheet seam.

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F. **Firestop Device*** - (Not Shown) - One or more banks of one, two, three, four, five or seven firestop device modules ganged together. A min separation of 3 in. (76 mm) shall be maintained between banks of firestop devices. Each firestop device module consists of a 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) long galv steel tube with an intumescent material lining. Firestop device modules to be installed in accordance with the accompanying installation instructions. Permissible cable types are listed under Item 3. The space between the firestop device module(s) and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 1/8 in. (3.2 mm) for square or rectangular plates and min 0 in. (0 mm, point contact) to max 1/2 in. (13 mm) when circular wall plates are used. Firestop device module(s) secured in place by means of steel wall plates installed with gasket material supplied with product. Steel wall plates installed on both sides of the floor or wall and secured to each device by means of steel set screws provided with wall plates. When wall plates are used, each firestop device module is to be installed with ends projecting an equal distance beyond each surface of the floor or wall assembly. Single floor plate required on top surface of floor only and attached to composite sheet (Item 8B) using No. 10 (or larger) steel sheet metal screws.

SPECIFIED TECHNOLOGIES INC - EZ PATH Series 22, 33 or 44+ Fire Rated Pathway

G. **Firestop Device* - Extension Module** - (Optional, Not Shown) - Module attached to ends of 3 by 3 by 10-1/2 in. (76 by 76 by 267 mm) or 4 by 4-5/8 by 14 in. (102 by 117 by 356 mm) long firestop device (Item 8F) to increase its length to facilitate installations in tricker floors or walls. Each module consists of a 3 by 3 by 6 in. (76 by 76 by 152 mm) or 4 by 4-5/8 by 6 in. (102 by 117 by 152 mm) long galv steel tube with an intumescent material lining. Extension module to be installed in accordance with the accompanying installation instructions. Permissible cable types are listed under Item 3. When module is used, firestop device (Item 8F) and extension module(s) secured in place by means of steel wall plates installed with gasket material supplied with product. Steel wall plates installed on both sides of the floor or wall and secured to each device or extension module(s) by means of steel set screws provided with wall plates. Firestop device and extension module(s) assembly to be installed with ends projecting an equal distance beyond each surface of the floor or wall assembly.

SPECIFIED TECHNOLOGIES INC - EZ PATH Extension
#Bearing the UL Listing Mark
*Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Classified by Underwriters Laboratories, Inc. to ANSUL1479 (ASTM E814) and CANULC S115 **System No. F-A-2031**

| | |
|---|--|
| ANSUL1479 (ASTM E814) | CANULC S115 |
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 1 Hr | FT Rating - 1 Hr |
| L Rating At Ambient - Less Than 1 CFM/ft ² | FH Rating - 2 Hr |
| L Rating At 400°F - Less Than 1 CFM/ft ² | FTL Rating - 1 Hr |
| W Rating - Class 1 (See Items 1, 3A and 3B) | L Rating At Ambient - Less Than 5.1 L/s/m ² |
| | L Rating At 204°C - Less Than 5.1 L/s/m ² |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor Assembly** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor. Max diam of opening is 8 in. (203 mm). For W Rating, the min concrete thickness is 4-1/2 in. (114 mm). Floor may also be constructed of min 6 in. (152 mm) thick hollow core UL Classified Precast Concrete Units. Max diam of opening in precast floors is 7 in. (178 mm).
- Precast Concrete Units (CFTU)** category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** - One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe or conduit and the periphery of the opening shall be min 3/4 in. (19 mm) to a max of 2-3/4 in. (70 mm). The pipe or conduit to be rigidly supported on both sides of floor or wall. As an option, the pipe or conduit may be cast or grouted into the floor. The following types and sizes of pipes or conduits may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Rigid Nonmetallic Conduit (RNC)** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 cellular or solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
- Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material** - Sealant - (Optional) - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal SIL300 Sealant for floors or walls and SpecSeal SIL300SL Sealant for floors only.
 - W Rating applies only when a min 1/2 in. (13 mm) depth of SpecSeal SIL300 or SpecSeal SIL300SL Sealants are used.**
 - L Ratings apply only when sealant is used.**
 - Steel Cover Plate** - Two piece cover plate fabricated from min 0.022 in. (0.6 mm) thick galv steel. Cover plate shall be cut to fit the outer circumference of the through penetrant and installed on bottom surface of floor. Steel cover plate shall lap a min of 2 in. (51 mm) beyond the periphery of the opening and onto the bottom surface of the concrete floor. Seams of cover plate shall overlap steel a min 2 in. (51 mm) and secured together by means of two No. 8 by 3/4 in. (19 mm) long sheet metal screws. Cover plate shall be secured to bottom surface of the concrete floor with min 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers, spaced a max 6 in. (152 mm) OC.
 - Fill, Void or Cavity Material** - **Wrap Strip** - Nom 1/4 in. (6 mm) thick by 1-1/2 in. (38 mm) wide (RED), nom 1/8 in. (3.2 mm) by 1-1/2 in. (38 mm) wide (RED2), nom 3/16 in. (4.8 mm) thick by 2 in. (51 mm) wide (BLU) or nom 1/8 in. (3.2 mm) thick by 2 in. (51 mm) wide (BLU2) intumescent strips faced on both sides with a plastic film. For nom 1-1/2 and 2 in. (38 and 51 mm) diam pipe, one layer wrapped around the through penetrant with the ends butted and held in place with tape. For nom 2-1/2 through 4 in. (64 through 102 mm) diam pipe, two layers of wrap strips are installed around the through-penetrant with the ends butted and held in place with masking tape. Butted ends in successive layers shall be offset. The wrap strips are wrapped around through-penetrant on underside of steel cover plate.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal RED Wrap Strip, SpecSeal RED2 Wrap Strip, SpecSeal BLU Wrap Strip or SpecSeal BLU2 Wrap Strip.
 - Steel Collar** - Nom 1-1/2 in. (38 mm) or 2 in. (51 mm) deep collar, dependent upon wrap strip width, with 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for attachment to concrete and min 3/4 in. (19 mm) wide retaining tabs tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs. Steel collar fabricated from 0.022 in. (0.6 mm) galv steel. Steel collar, with anchor tabs bent outward 90 deg, wrapped tightly around wrap strip layers with min 1 in. (25 mm) overlap at seam. Retainer tabs to be bent 90 deg toward pipe to lock wrap strips in position. Anchor tabs to be pressed tightly against floor or wall surface(s), and collar to be secured in place using a min of three No. 8 by 1/4 in. (6 mm) long steel screws. Collar to be secured to concrete surface with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers. Min two fasteners, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam nonmetallic sleeves. Min four fasteners, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam nonmetallic sleeves.
 - Firestop Device** - (Not Shown) - As an alternate to Items 3D and 3E, a firestop device consisting of a galv steel collar lined with an intumescent material sized to fit the specific diam of the nonmetallic sleeve may be used. Device shall be installed around nonmetallic sleeve in accordance with the accompanying installation instructions. Device incorporates anchor tabs for securement to bottom surface of floor assembly. Collar to be secured to concrete surface with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Collar to be secured to steel cover plate with No. 8 by 3/4 in. (19 mm) long steel sheet metal screws.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal LCC Collar or SpecSeal SSC Collar
 - +Bearing the UL Listing Mark
 - *Bearing the UL Classification Marking

Classified by Underwriters Laboratories, Inc. to ANSUL1479 (ASTM E814) and CANULC S115 **System No. F-A-2106**

| | |
|-----------------------|-------------------|
| ANSUL1479 (ASTM E814) | CANULC S115 |
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| | FH Rating - 2 Hr |
| | FTL Rating - 0 Hr |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor assembly. Diam of opening to be sized to accommodate hub of floor drain (Item 2) such that max annular space around drain piping (Item 3) is 1/4 in. (6 mm) at bottom of floor slab.
- Shower/Floor Drain** - Flanged PVC body with Schedule 40 hub connection for nom 3 or 4 in. (76 or 102 mm) diam PVC drain piping. Drain provided with polished brass or chrome steel shower drain floor drain strainer. PVC body cemented to nonmetallic drain pipe (Item 3). Drain hub to fit tightly in core hole drilled through concrete.
- Nonmetallic Pipe** - Nom 3 or 4 in. (76 or 102 mm) diam Schedule 40 solid or cellular core PVC pipe for use in vented (drain, waste or vent) piping system. Annular space to be max 1/4 in. (6 mm) at bottom surface of floor slab.

Classified by Underwriters Laboratories, Inc. to ANSUL1479 (ASTM E814) and CANULC S115 **System No. F-A-2248**

| | |
|-----------------------|-------------------|
| ANSUL1479 (ASTM E814) | CANULC S115 |
| F Rating - 2 Hr | F Rating - 2 Hr |
| T Rating - 0 Hr | FT Rating - 0 Hr |
| | FH Rating - 2 Hr |
| | FTL Rating - 0 Hr |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor assembly. Diam of opening is nom 5 in. (127 mm).
- Alternate Floor Assembly** - (Not Shown) - When Item 1A is used, a sheet metal sleeve (Item 1C) is required. As an alternate to Item 1, the fire rated unprotected concrete and steel floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series design in the UL Fire Resistance Directory and as summarized below:
 - Concrete** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete, as measured from the top plane of the steel floor units.
 - Steel Floor and Form Units** - Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Diam of opening is nom 5 in. (127 mm).
 - Steel Sleeve** - (Not Shown, Optional) - Nom 5 in. (127 mm) diam Schedule 10 (or heavier) steel pipe or nom 5 in. (127 mm) diam No. 26 GA (0.022 in. or 0.56 mm thick) galvanized steel sheet metal sleeve with square flange spot welded to the sleeve at approx mid-height and sized to be a min of 2 in. (51 mm) larger than the sleeve diam cast or grouted into floor, flush with floor surfaces.
 - Sheet Metal Sleeve** - (Not Shown, Optional) - No. 30 GA (0.016 in. or 0.40 mm thick) galvanized steel sheet metal sleeve, flush with both sides of floor. Longitudinal seam to overlap a min 1 in. (25 mm).
 - Shower Floor Assembly** - One-piece molded fiberglass construction with ribbed underbody. Shower floor assembly provided with min 2-1/2 in. (64 mm) high threshold. Nom 2 in. (51 mm) or 2-1/2 in. (64 mm) diam opening in shower floor assembly provided with "no-hub" sanitary waste connection with elastomeric compression-style gasket to allow for installation of floor drain (Item 3).
 - Nonmetallic Pipe** - One nom 1-1/2 in. (38 mm) or 2 in. (51 mm) diam nonmetallic drain pipe installed either concentrically or eccentrically within the firestop system. The annular space between drain pipe and periphery of opening or between drain pipe and sleeve shall be min 1 in. (25 mm) to max 2-1/8 in. (54 mm). Pipe to be rigidly supported on underside of floor assembly. The following types and sizes of nonmetallic pipe may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 1-1/2 in. (38 mm) or 2 in. (51 mm) diam Schedule 40 solid core or cellular core PVC pipe for use in vented (drain, waste or vent) piping systems.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe** - Nom 1-1/2 in. (38 mm) or 2 in. (51 mm) diam Schedule 40 cellular core or solid core ABS pipe for use in vented (drain, waste or vent) piping systems.
 - Metallic or Nonmetallic Strainer** - Polished brass, polished stainless steel or PVC snap-in strainer installed after installation of drain piping (Item 3).
 - Fill, Void or Cavity Material** - Plug - Nom 5 in. (127 mm) diam plug firmly installed within the opening such that the bottom surface of the entire plug is flush with the bottom surface of the floor assembly or steel sleeve. Plug slit to fit around nonmetallic drain pipe and installed tightly within the opening.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal Series FP5000 Firestop Plug
 - *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Classified by Underwriters Laboratories, Inc. to ASTMUL1479 (ASTM E814) **System No. F-A-2207**

| | |
|---|-------------------|
| ANSUL1479 (ASTM E814) | |
| F Rating - 2 Hr | T Rating - 3/4 Hr |
| L Rating At Ambient - Less Than 1 CFM/ft ² | |
| L Rating At 400°F - Less Than 1 CFM/ft ² | |
| W Rating - Class 1 (See Item 5E) | |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Floor may also be constructed of any 6 in. thick UL Classified hollow core Precast Concrete Units. Max diam of opening is 5 in. (127 mm).
- Precast Concrete Units (CFTU)** category in the Fire Resistance Directory for names of manufacturers.
- Metallic Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe or cast/ductile iron pipe installed concentrically or eccentrically within opening. Pipe to terminate 6 to 12 in. (152 to 305 mm) below bottom surface of floor and a min 6 in. (152 mm) above top surface of floor. An annular space of min 0 in. (point contact) to max 1/2 in. (13 mm) is required within the firestop system. Pipe to be rigidly supported on both sides of the floor assembly.
- Compression Coupling** - Nonmetallic pipe (Item 4) to be secured to metallic pipe with compression type high pressure pipe coupling with elastomeric gasket and a stainless steel jacket with stainless steel band clamps.
- Nonmetallic Pipe** - Nom 4 in. (102 mm) diam (or smaller) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The following types and sizes of nonmetallic pipes may be used:
 - Polyvinyl Chloride (PVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe.
- Firestop System** - The firestop system shall consist of the following:
 - Fill, Void or Cavity Material** - **Wrap Strip** - Nom 1/8 in. (3.2 mm) by 1-1/2 in. (38 mm) wide (RED2), nom 1/4 in. (6 mm) thick by 1-1/2 in. (38 mm) wide (RED), 3/16 in. (4.8 mm) by 2 in. (51 mm) wide (BLU) or 1/8 in. (3.2 mm) by 2 in. (51 mm) wide (BLU2) intumescent strips faced on both sides with a plastic film. Strips tightly wrapped around nonmetallic pipe and coupling with edges butted against the underside of the compression coupling (Item 3). The wrap strips may be installed with butted seams in successive layers, aligned or offset or continuously wrapped around through penetrant. Wrap strips are temporarily held in place with tape. A minimum of three layers of wrap strip are required.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal RED, RED2, BLU, or BLU2 Wrap Strip

Classified by Underwriters Laboratories, Inc. to ANSUL1479 (ASTM E814) **System No. F-A-2248**

| | |
|-----------------------|-----------------|
| ANSUL1479 (ASTM E814) | |
| F Rating - 2 Hr | T Rating - 0 Hr |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

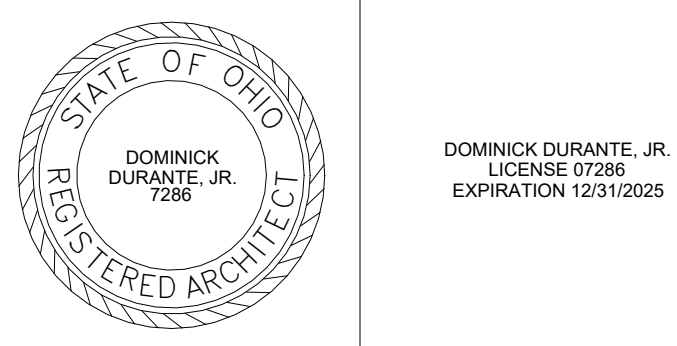
- Floor Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor assembly. Diam of opening is nom 5 in. (127 mm).
- Alternate Floor Assembly** - (Not Shown) - When Item 1A is used, a sheet metal sleeve (Item 1C) is required. As an alternate to Item 1, the fire rated unprotected concrete and steel floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series design in the UL Fire Resistance Directory and as summarized below:
 - Concrete** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete, as measured from the top plane of the steel floor units.
 - Steel Floor and Form Units** - Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Diam of opening is nom 5 in. (127 mm).
 - Steel Sleeve** - (Not Shown, Optional) - Nom 5 in. (127 mm) diam Schedule 10 (or heavier) steel pipe or nom 5 in. (127 mm) diam No. 26 GA (0.022 in. or 0.56 mm thick) galvanized steel sheet metal sleeve with square flange spot welded to the sleeve at approx mid-height and sized to be a min of 2 in. (51 mm) larger than the sleeve diam cast or grouted into floor, flush with floor surfaces.
 - Sheet Metal Sleeve** - (Not Shown, Optional) - No. 30 GA (0.016 in. or 0.40 mm thick) galvanized steel sheet metal sleeve, flush with both sides of floor. Longitudinal seam to overlap a min 1 in. (25 mm).
 - Shower Floor Assembly** - One-piece molded fiberglass construction with ribbed underbody. Shower floor assembly provided with min 2-1/2 in. (64 mm) high threshold. Nom 2 in. (51 mm) or 2-1/2 in. (64 mm) diam opening in shower floor assembly provided with "no-hub" sanitary waste connection with elastomeric compression-style gasket to allow for installation of floor drain (Item 3).
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 - Metallic or Nonmetallic Strainer** - Polished brass, polished stainless steel or PVC snap-in strainer installed after installation of drain piping (Item 3).
 - Fill, Void or Cavity Material** - Plug - Nom 5 in. (127 mm) diam plug firmly installed within the opening such that the bottom surface of the entire plug is flush with the bottom surface of the floor assembly or steel sleeve. Plug slit to fit around nonmetallic drain pipe and installed tightly within the opening.
 - SPECIFIED TECHNOLOGIES INC** - SpecSeal Series FP5000 Firestop Plug
 - *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Classified by Underwriters Laboratories, Inc. to ANSUL1479 (ASTM E814) **System No. F-A-2248**

| | |
|-----------------------|-----------------|
| ANSUL1479 (ASTM E814) | |
| F Rating - 2 Hr | T Rating - 0 Hr |

System tested with a pressure differential of 2.5 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

- Floor Assembly** - Min 4-1/2 in. (114 mm) thick lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete floor assembly. Diam of opening is nom 5 in. (127 mm).
- Alternate Floor Assembly** - (Not Shown) - When Item 1A is used, a sheet metal sleeve (Item 1C) is required. As an alternate to Item 1, the fire rated unprotected concrete and steel floor assembly shall be constructed of the material and in the manner specified in the individual D900 Series design in the UL Fire Resistance Directory and as summarized below:
 - Concrete** - Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete, as measured from the top plane of the steel floor units.
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 - SPECIFIED TECHNOLOGIES INC** - SpecSeal Series FP5000 Firestop Plug
 - *Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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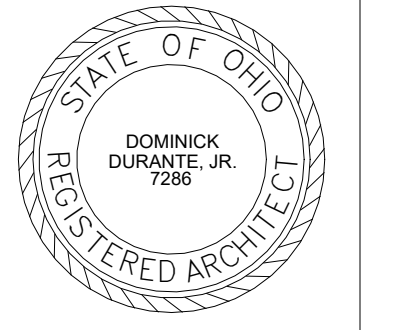
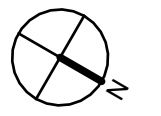
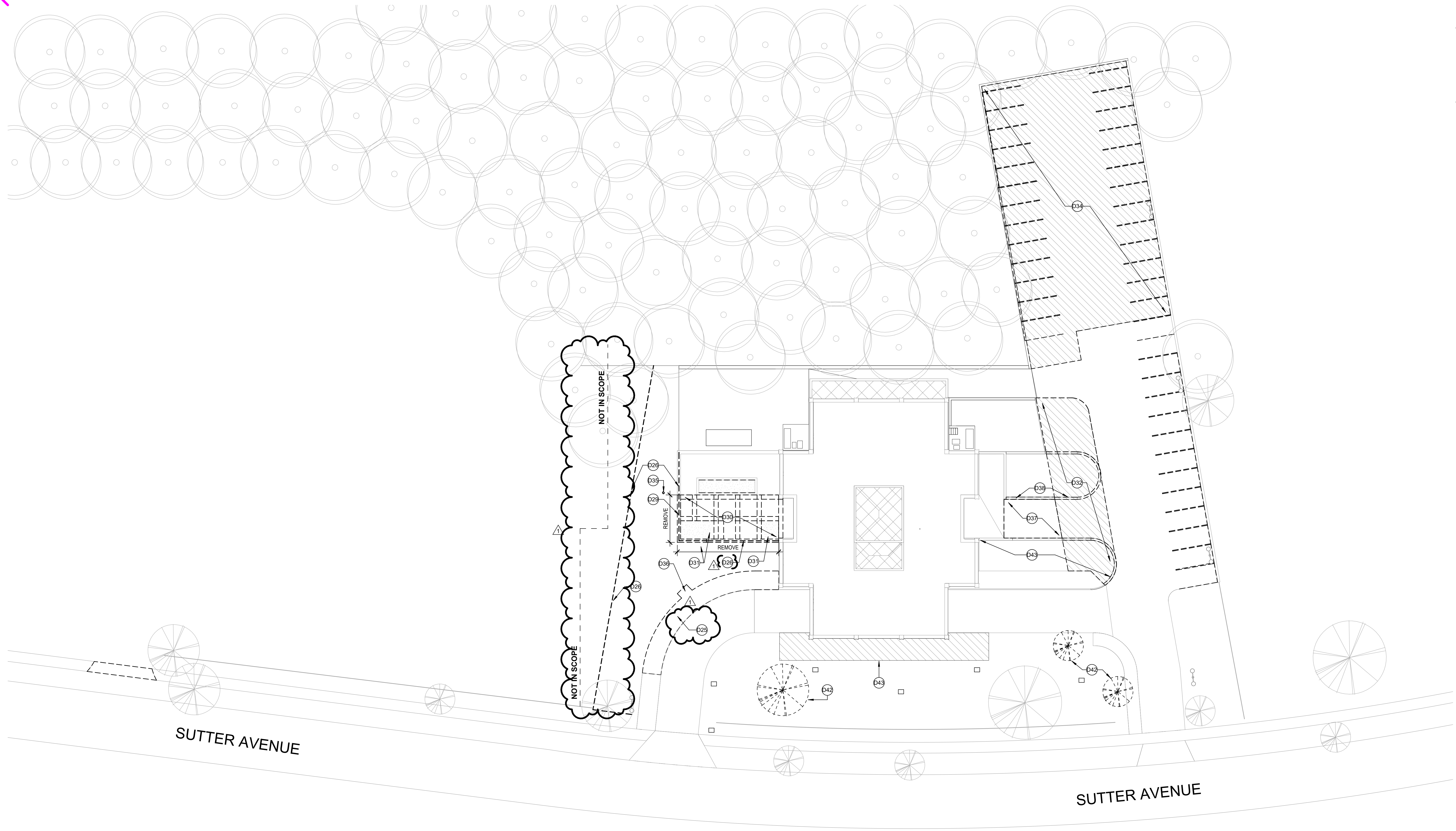
Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- D25 REMOVE EXISTING CONCRETE SIDEWALK. ADD FILL, COMPACT AND PREP AREA FOR ASPHALT CONNECTION TO NEW PARKING LOT.
- D26 REMOVE EXISTING FENCINGS
- D29 REMOVE PORTION OF EXISTING WALL AND FENCING AS INDICATED ON PLAN.
- D30 REMOVE PORTION OF EXISTING PATIO AND PAVERS SHOWN TO ACCOMMODATE NEW ENTRANCE CANOPY CONSTRUCTION. REFER TO CANOPY PLANS.
- D31 REMOVE EXISTING LANDSCAPE BEDS AND PLANTINGS
- D34 HATCHED AREA INDICATES AREA TO BE RE-PURPOSED FOR EXTERIOR RECREATION AREA. REMOVE ASPHALT DOWN TO SUB-GRADE. EXCAVATION RANGES FROM 0 TO ROUGHLY 3'-6". TO CONFIRM WITH CIVIL PLANS IN THE FUTURE.
- D35 REMOVE EXISTING WOOD UTILITY POLE AND RE-ROUTE UTILITY LINES UNDERGROUND TO NEW UTILITY POLE AT STREET. COORDINATE WITH UTILITY COMPANY.
- D36 REMOVE EXISTING COVERING AND BENCH.
- D37 REMOVE PORTION OF EXISTING SERVICE DRIVE.
- D42 REMOVE EXISTING TREE IN ITS ENTIRETY.
- D43 REMOVE EXISTING LANDSCAPING.



DOMINICK DURANTE, JR.
LICENSE #7296
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

DEMOLITION SITE PLAN

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
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| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

SITE PLAN LEGEND

- REGRADING/FILL SOIL & LANDSCAPE
- LANDSCAPE AREA
- EXISTING PLANTS TO REMAIN
- NEW PLANTINGS
- ACCESSIBLE ROUTE. SLOPE NOT TO EXCEED 5%. CROSS-SLOPE NOT TO EXCEED 2%.

SCOPE OF WORK & GENERAL NOTES - SITE PLANS

1. ALL SITE WORK DESCRIBED IN THIS SECTION IS TO BE COORDINATED WITH LANDSCAPE AND CIVIL DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF ALL EXISTING UTILITIES ON PROPERTY AND SHALL REPORT ALL POTENTIAL CONFLICTS WITH THE PROPOSED UTILITIES, UTILITY RIGHT OF WAYS, ETC. TO THE ARCHITECT.
3. PROVIDE NEW WATER SHUTOFF VALVES AT STREET.
4. ALL SITE SANITARY AND STORM LINES ARE TO BE REFINED OR REPLACED AS NEEDED. OWNER TO HAVE LINES INSPECTED SEPERATELY.

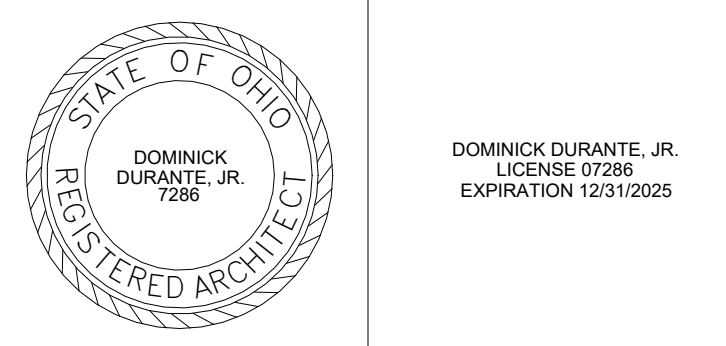
- LANDSCAPING**
- A. NEW LANDSCAPING IS TO BE PROVIDED IN ALL AREAS INDICATED ON SITE PLAN. REFER TO LANDSCAPE PLANS AND SPECIFICATIONS. ANY EXISTING TREES ON PROPERTY LOCATED OUTSIDE OF NEWLY LANDSCAPED AREAS ARE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION IF NEEDED.
 - B. PROVIDE NEW MONUMENT SIGN WITH LED LIGHTING. REFER TO SITE DETAILS.
 - C. REMOVE ALL VEGETATION FROM EXISTING PAVEMENT AND SITE WALLS.

- CONCRETE SIDEWALKS**
- A. NEW CONCRETE SIDEWALKS ARE TO BE PROVIDED IN NEW PARKING LOT, NEW ENTRANCE CANOPY AND ON NORTH SIDE OF THE BUILDING TO NEW EXTERIOR AMENITY SPACE. REFER TO RESPECTIVE SCOPES OF WORK BELOW FOR ADDITIONAL INFORMATION.
 - B. REMOVE ALL VEGETATION FROM EXISTING CONCRETE SIDEWALKS ARE TO BE REPAIRED OR REPLACED AS NEEDED.

- NORTH PARKING LOT & RECREATION AREA**
- A. REFER TO NORTH PARKING LOT PLAN FOR ADDITIONAL SCOPE AND DETAILS.
 - B. REAR HALF OF EXISTING NORTH PARKING LOT TO HAVE ASPHALT REMOVED, TO BE FILLED, COMPACTED, AND LEVELED FLAT TO REPURPOSE AS EXTERIOR RECREATION AREA WITH SPACE PROVIDED FOR OUTDOOR GRILLING, PICKLEBALL, AND OUTDOOR SEATING. REFER TO NORTH PARKING LOT PLAN FOR ADDITIONAL INFORMATION.
 - C. NEW LANDSCAPING AND GRASS AREAS TO BE PROVIDED BETWEEN EXTERIOR AMENITY AND EXISTING PARKING TO REMAIN. REFER TO NORTH PARKING LOT PLAN.
 - D. ACCESSIBLE PARKING TO BE PROVIDED NEAR NEW RECREATION AREA WITH ACCESSIBLE PARKING SIGNAGE. ACCESSIBLE ROUTE FROM PARKING TO RECREATION AREA SHALL BE PROVIDED WITH A SLOPE NOT TO EXCEED 5% AND CROSS-SLOPE NOT TO EXCEED 2%. ALL OTHER ADDITIONAL PARKING SURFACE AREA IS TO REMAIN AND BE RE-PAVED SEALCOAT, MILL, RESURFACE, AND RE STRIPE ALL EXISTING ASPHALT PAVED AREAS. MINIMUM 2" MILLING OF EXISTING PAVEMENT. REFER TO NORTH PARKING LOT PLAN.
 - F. A NEW CONCRETE SIDEWALK AND STAIRS IS TO BE PROVIDED THAT CONNECTS EXISTING SIDEWALK AT DROP-OFF TO THE RECREATION AREA. PORTION OF EXISTING SERVICE DRIVE TO BE REMOVED.

- DROP-OFF AND ENTRANCE DRIVES**
- A. EXISTING DRIVING SURFACE IS TO BE RE-PAVED SEALCOAT, MILL, RESURFACE, AND RE STRIPE ALL EXISTING ASPHALT PAVED AREAS. MINIMUM 2" MILLING OF EXISTING PAVEMENT.
 - B. NEW CANOPIES TO BE PROVIDED ON BOTH SIDES OF EXISTING DROP OFF OVERHANG. REFER TO CANOPY PLANS.

- BUILDING MAIN ENTRANCE**
- A. REFER TO MAIN ENTRANCE PLAN FOR ADDITIONAL SCOPE AND DETAILS.
 - B. NEW MAIN ENTRANCE CANOPY IS TO BE PROVIDED, WITH NEW LED LIGHTING. REFER TO CANOPY PLANS.



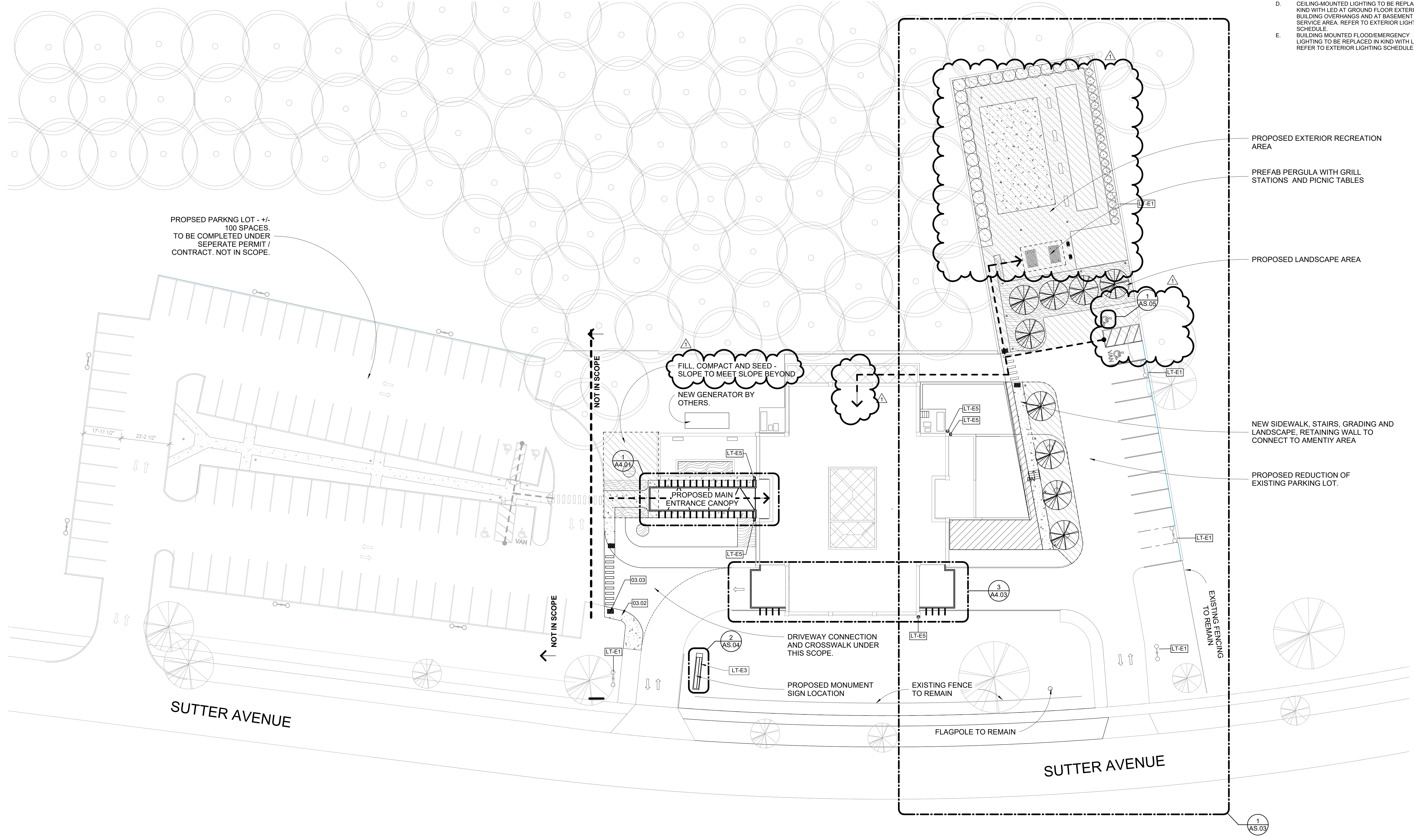
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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

| EXTERIOR LIGHT FIXTURE SCHEDULE | | | | | | | | |
|---------------------------------|---------------------------------------|---|-------------------|----------------------------|-----------------------------|-------------|-----------|---|
| TAG | TYPE | FIXTURE LOCATIONS | MANUFACTURER | NAME | MODEL | FINISH | LAMP | REMARKS |
| LT-E1 | EXISTING POLE LIGHT | NORTH LOT - REFER TO SITE PLANS | | | | | LED 5000K | POLES TO REMAIN. REPLACE LAMPS. REFER TO ELECTRICAL NOTES. |
| LT-E2 | BOLLARD LIGHT | NORTH LOT / REC AREA - REFER TO SITE PLANS | LITHONIA LIGHTING | DOME TOP ROUND LED BOLLARD | KBA8 LED | BRONZE | LED 5000K | |
| LT-E3 | SIGNAGE LIGHTING | MONUMENT SIGN | | | | | LED 5000K | PROVIDE POWER TO MONUMENT SIGN FOR ILLUMINATED SIGNAGE LETTERING. LIGHTS TO BE SPECIFIED BY SIGNAGE VENDOR. |
| LT-E4 | CEILING MOUNT LIGHT | LOWER LEVEL SERVICE AREA, GROUND LEVEL OVERHANG | LITHONIA LIGHTING | LED CANOPY LIGHT | CNY LED P0 50K MVOLT DDB M4 | DARK BRONZE | LED 5000K | LIGHTS AT EXISTING LOCATIONS ARE TO BE REPLACED WITH NEW. REFER TO ELECTRICAL NOTES. |
| LT-E5 | WALL-MOUNT FLOOD LIGHT | BUILDING EXTERIOR - REFER TO SITE PLANS | | | | | LED 5000K | LIGHTS AT EXISTING LOCATIONS ARE TO BE REPLACED WITH NEW. REFER TO ELECTRICAL NOTES. |
| LT-E6 | LED EXTERIOR RATED 8'-0" LINEAR LIGHT | CANOPY AND DROP-OFF CEILINGS | | | | | LED 5000K | |
| LT-E7 | LED LINEAR STRIP LIGHT | FRONTS OF BALCONIES LEVELS 3-15. | | | | | LED 5000K | |

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL EXTERIOR LIGHT INFORMATION



1 SITE PLAN
SCALE: 1" = 20'-0"



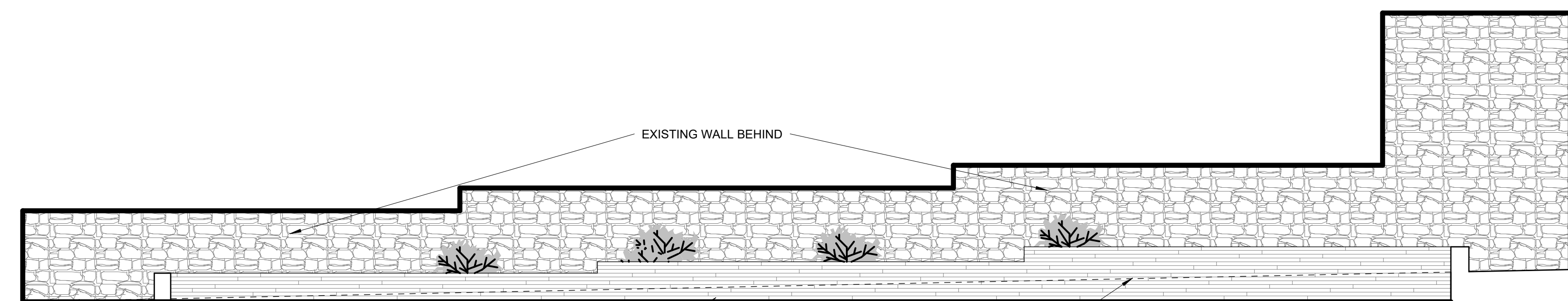
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|------------|------|----------------------------|
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| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S- OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

SITE PLAN LEGEND

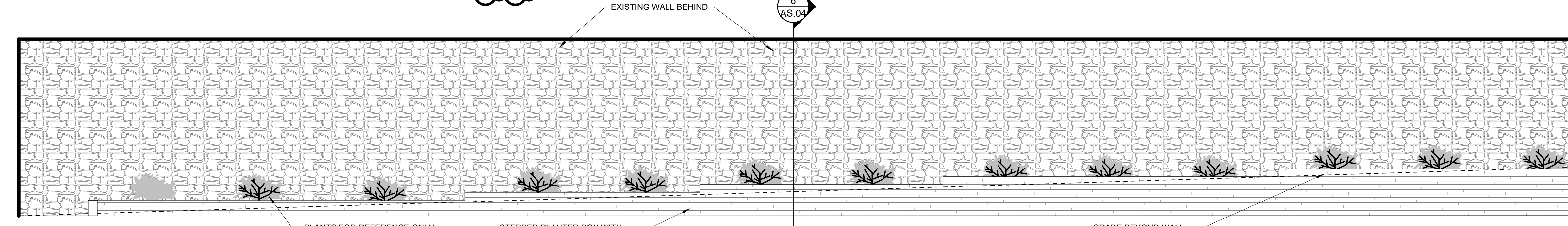
- REGRADING/FILL SOIL & LANDSCAPE
- LANDSCAPE AREA
- EXISTING PLANTS TO REMAIN
- NEW PLANTINGS
- ACCESSIBLE ROUTE. SLOPE NOT TO EXCEED 5%. CROSS-SLOPE NOT TO EXCEED 2%.

KEYED NOTES SPECIFIC TO THIS SHEET

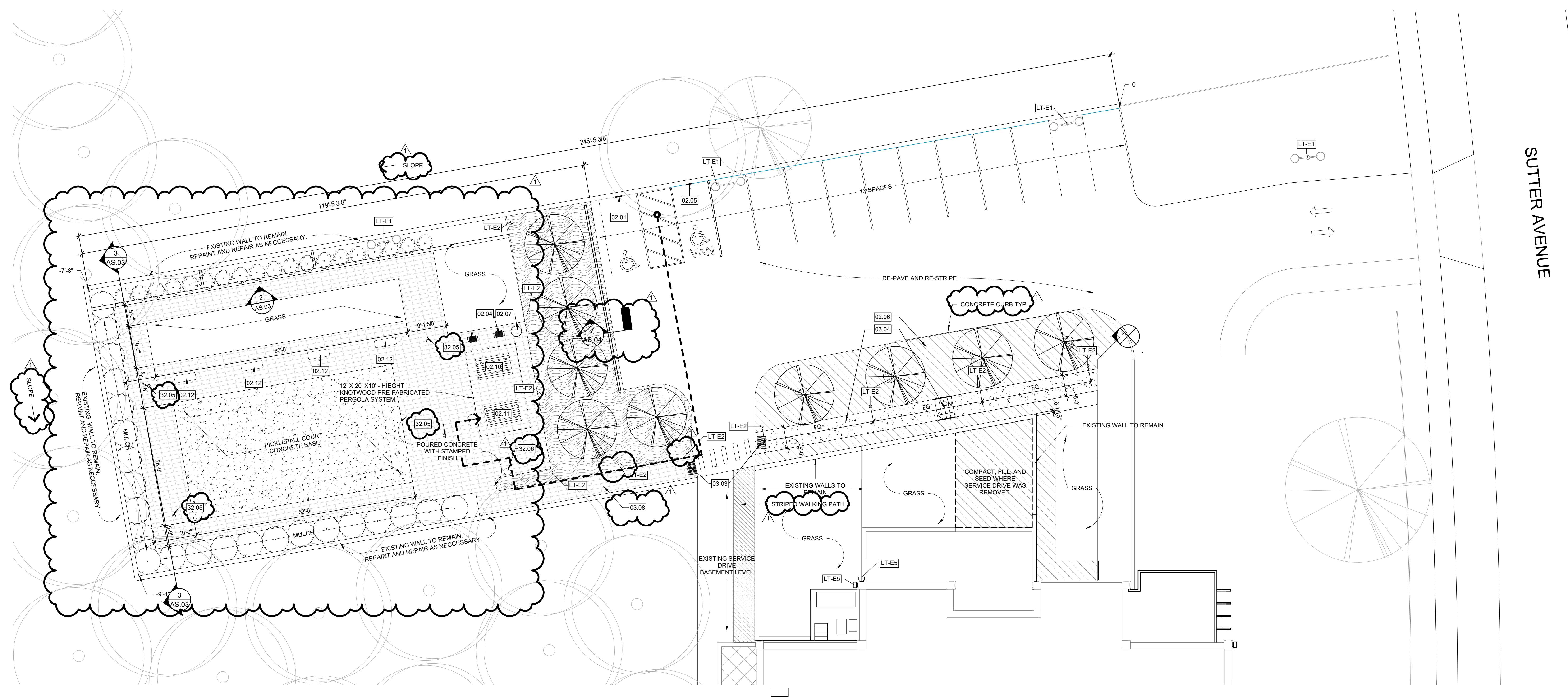
- REFERENCED BY THE SYMBOL
- TYPICAL UNLESS NOTED OTHERWISE
- 02.01 PROVIDE NEW ACCESSIBLE PARKING SIGNAGE.
 - 02.04 PROVIDE NEW ULINE OUTDOOR PARK GRILL #H-4419, TYP. MOUNT POST IN CONCRETE FOOTING, 12" DIAMETER, 3' DEEP AND INSERT POLE APPROXIMATELY 14" IN THE CONCRETE OR AS INDICATED BY THE MANUFACTURER.
 - 02.05 PROVIDE NEW ACCESSIBLE VAN PARKING SIGNAGE.
 - 02.06 HATCHED AREA INDICATES RE-GRADE, COMPACT FILL AND SEED AROUND NEW CONCRETE WALKWAY.
 - 02.07 PROVIDE NEW ULINE 32-GALLON TRASH CAN #H-3022, ARCHITECT TO SELECT COLOR.
 - 02.10 PROVIDE NEW 8' BARCOBOARD WALK-THRU PICNIC TABLE #SKU PT-12, CEDAR FINISH.
 - 02.11 PROVIDE NEW BARCOBOARD WHEELCHAIR ACCESSIBLE TABLE #SKU PT-13, CEDAR FINISH.
 - 02.12 PROVIDE NEW 8' BARCOBOARD OUTDOOR BENCH #SKU BN-11, CEDAR FINISH.
 - 03.03 PROVIDE ADA CURB RAMP WITH ADA WARNING STRIP BY LINE.
 - 03.04 PROVIDE NEW CONCRETE WALKWAY AND STAIR. PROVIDE NEW METAL HANDRAIL AT STAIRS AND ON WALK WHERE SLOPE EXCEEDS 5%.
 - 03.08 STAMPED CONCRETE BRICKFORM, ADA ASLAP, FM-3130, OR APPROVED ALTERNATIVE.
 - 32.05 NEW DRAIN, TIE INTO EXISTING PARKING LOT DRAINAGE SYSTEM.
 - 32.06 EMERGENCY KIOSK WITH 911 PHONE TO BE INSTALLED FOR ADDED SAFETY.



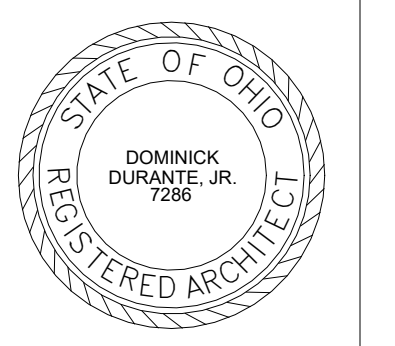
3 RECREATION AREA WEST SECTION
AS.03 SCALE: 1/4" = 1'-0"



2 RECREATION AREA NORTH ELEVATION
AS.03 SCALE: 1/4" = 1'-0"



1 ENLARGED SITE PLAN - NORTH PARKING LOT
AS.03 SCALE: 3/32" = 1'-0"



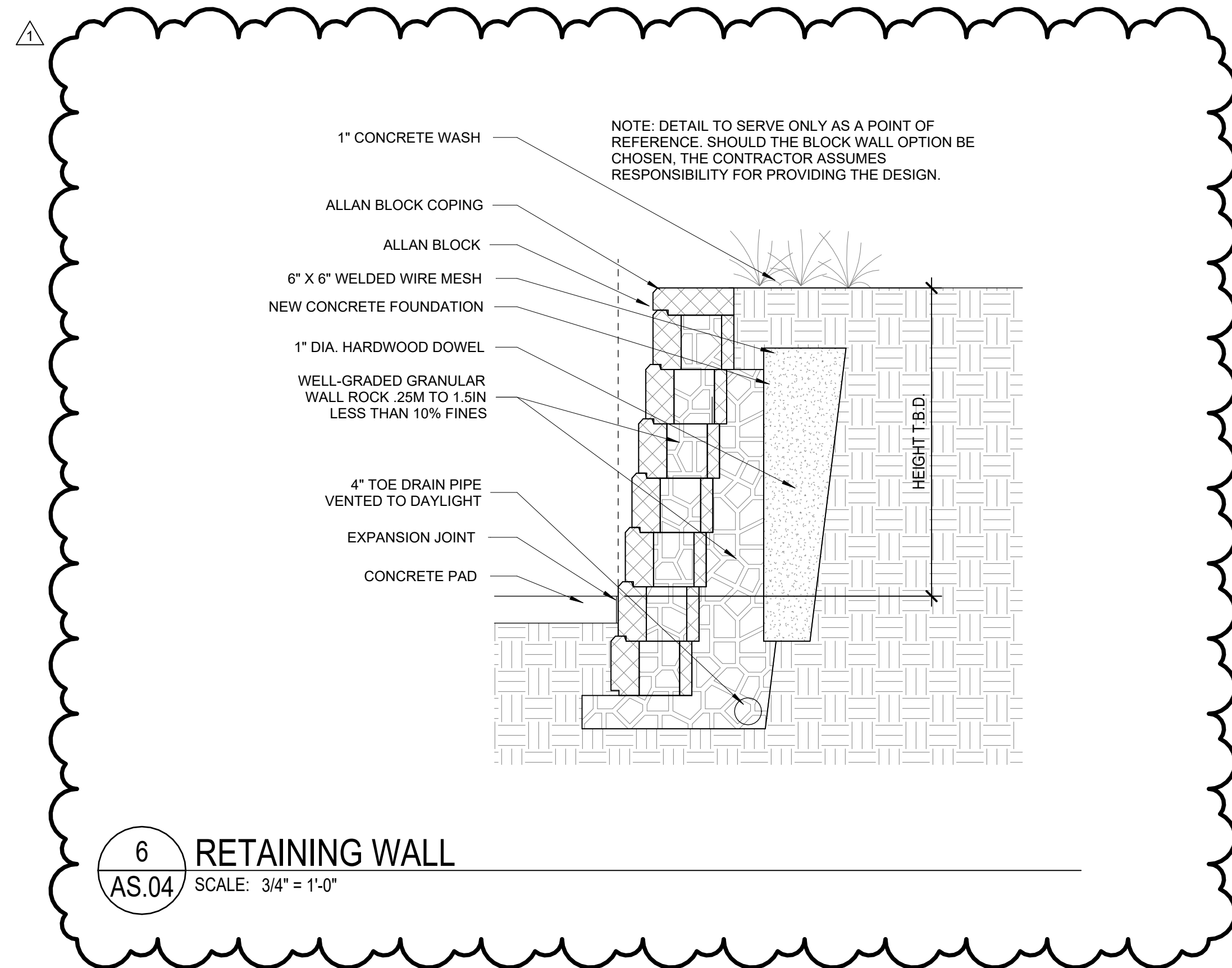
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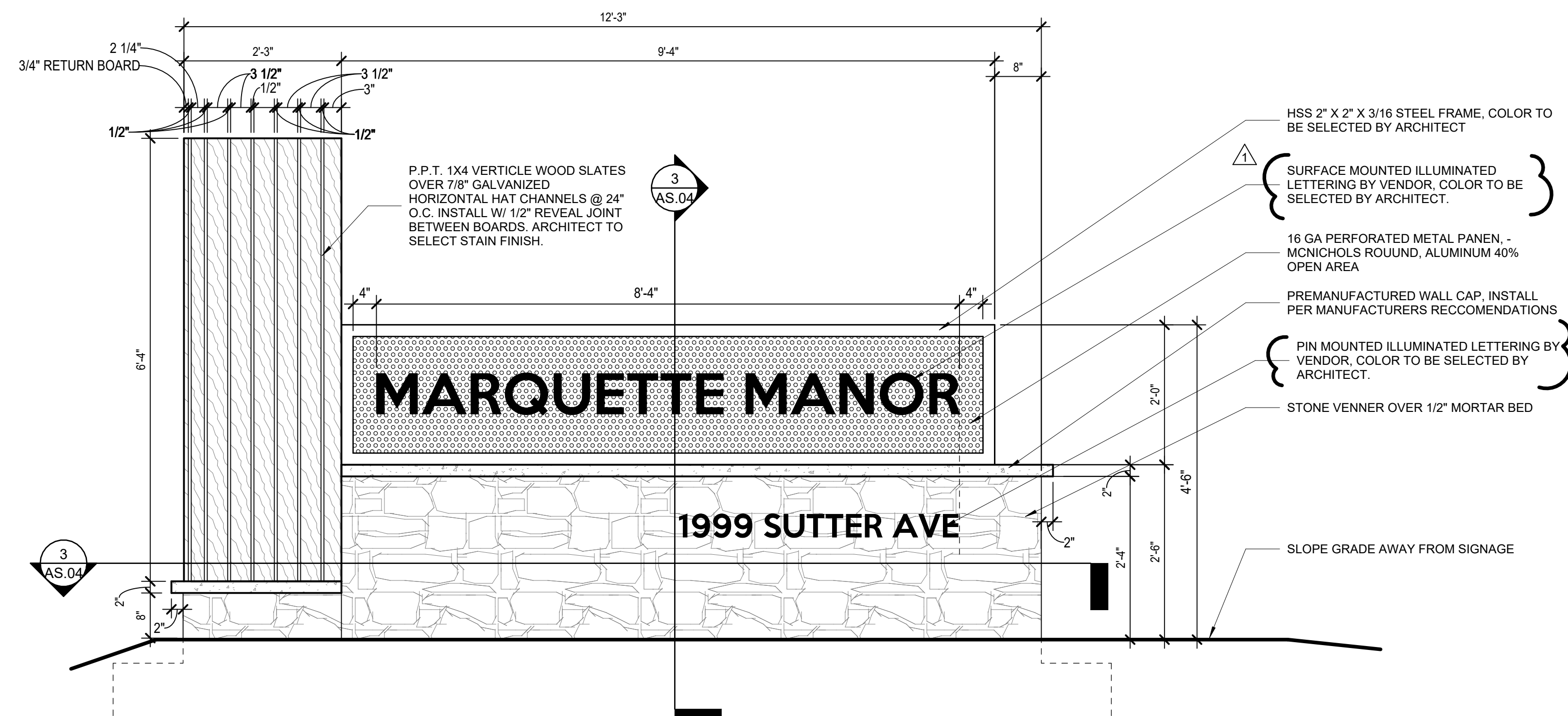
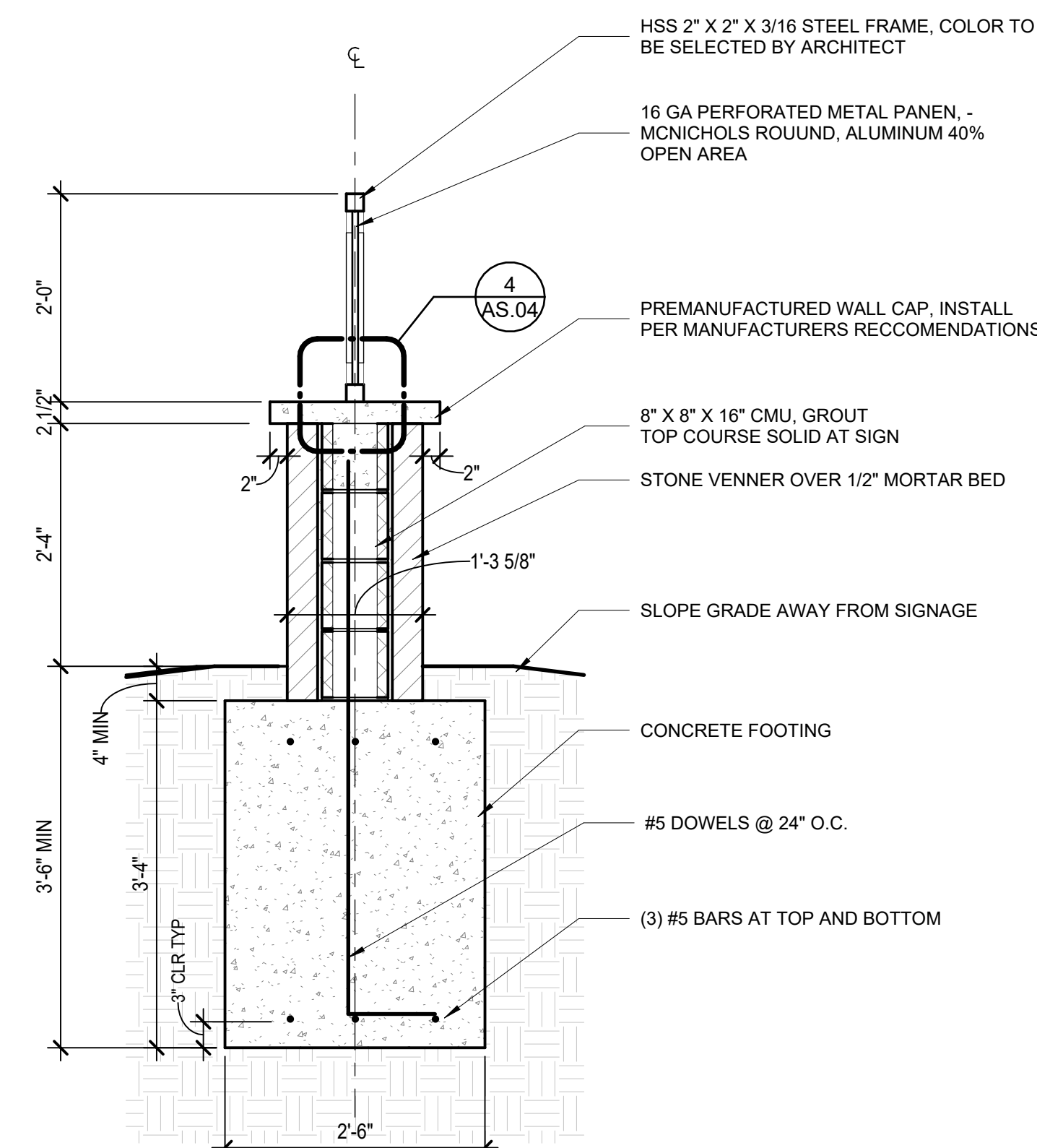
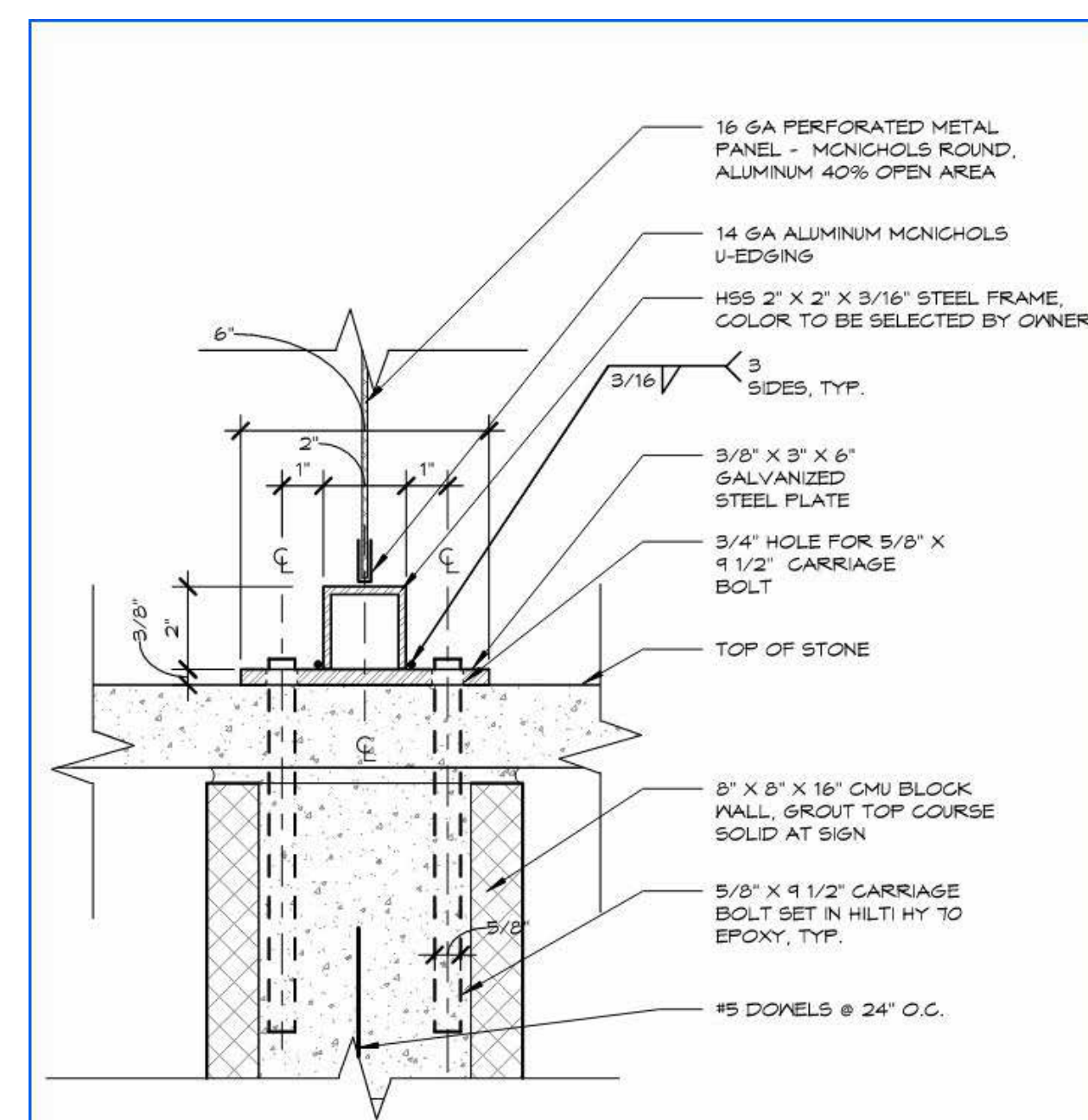
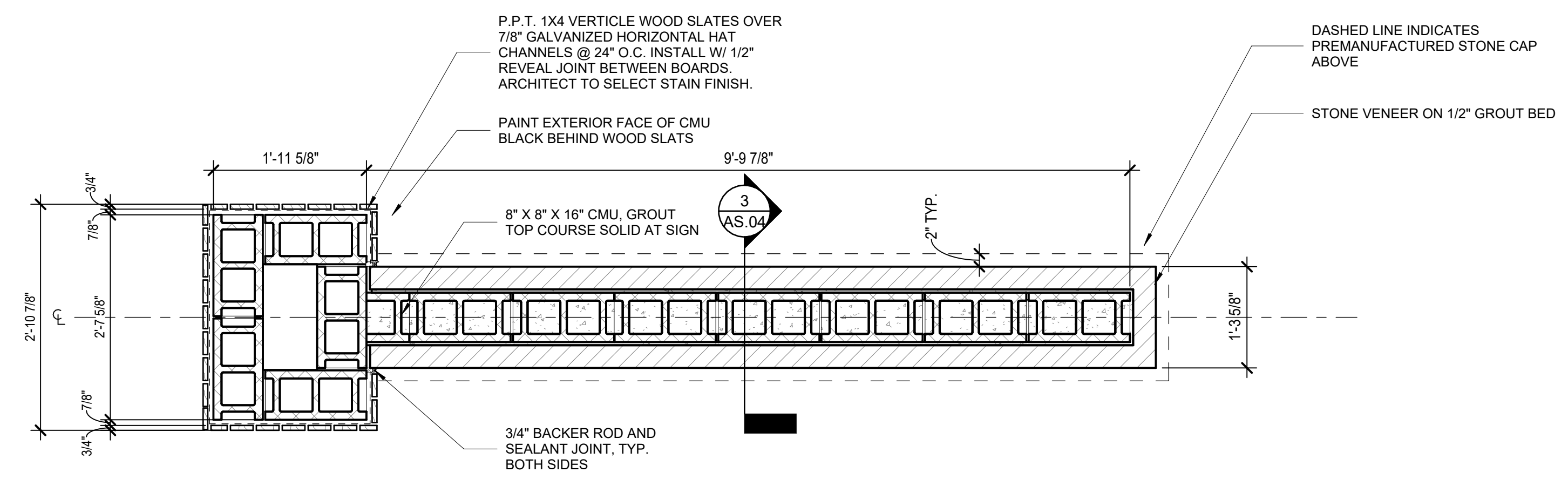
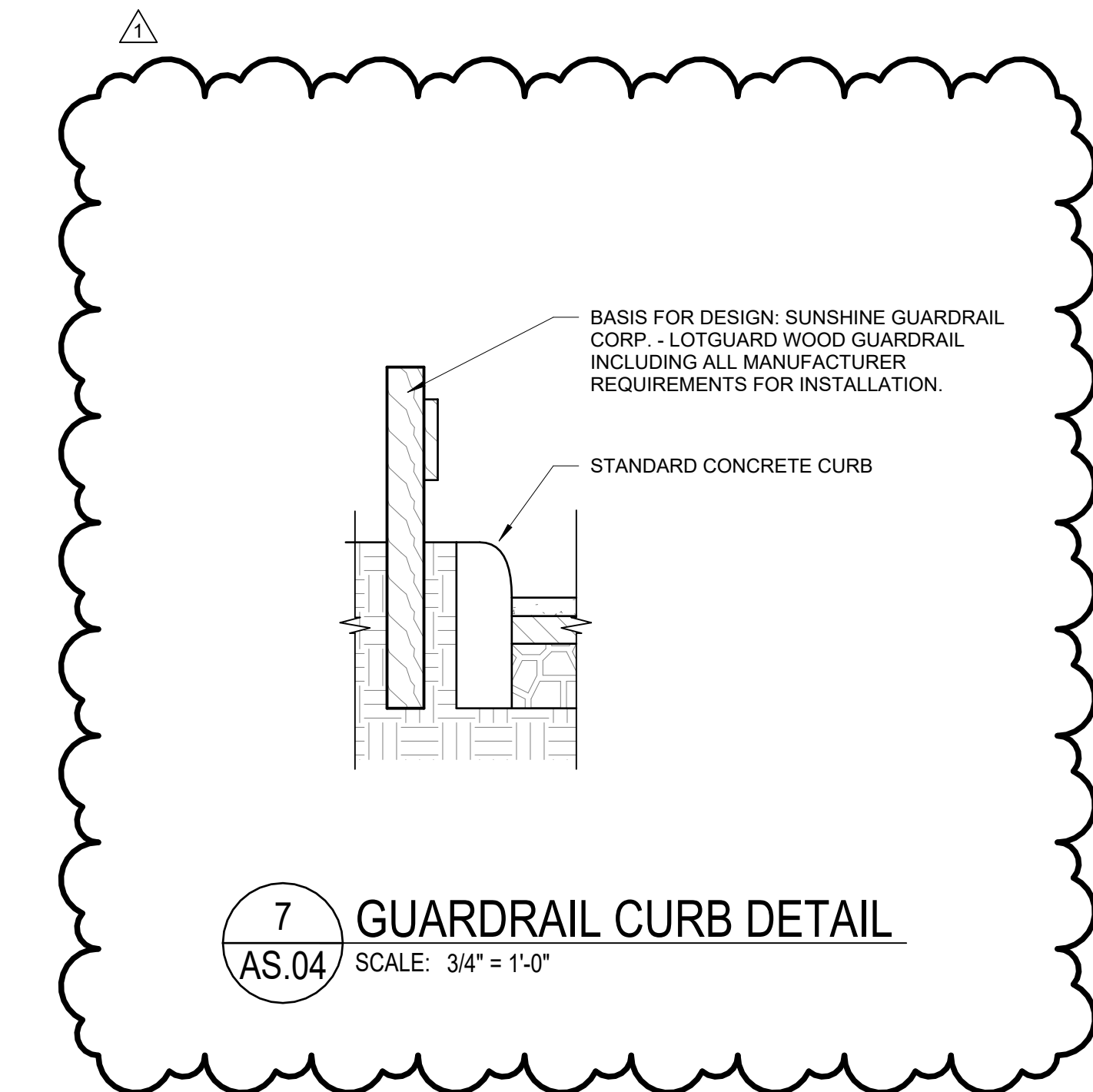
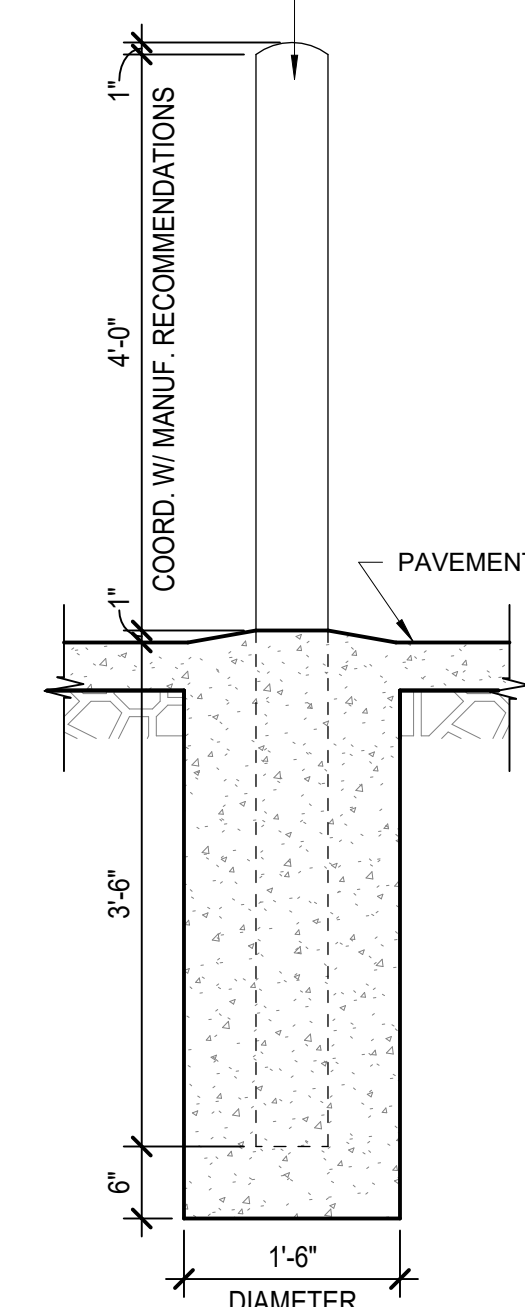
Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47
ENLARGED SITE PLAN - NORTH PARKING LOT
AS.03

| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |



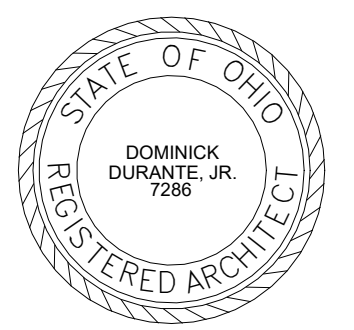
CONCRETE FILLED 6" DIA. SCH. 40 STEEL PIPE. COORDINATE WITH MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. FINISH TO BE PAINTED EXTERIOR GRADE EPOXY. COLOR TO BE SELECTED BY ARCHITECT.



4 HSS CONNECTION DETAIL
AS.04 SCALE: 3" = 1'-0"

3 MONUMENT SIGN SECTION
AS.04 SCALE: 3/4" = 1'-0"

1 MONUMENT SIGN ELEVATION
AS.04 SCALE: 3/4" = 1'-0"



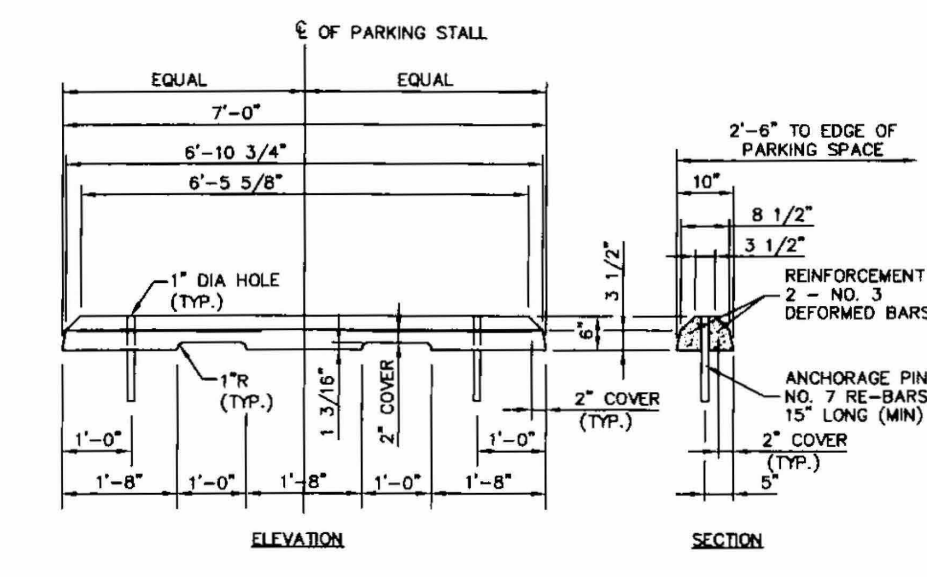
DOMINICK DURANTE, JR.
LICENSE 07365
EXPIRATION 12/31/2025

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1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No. 23-17

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80% - OHFA APP. |
| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



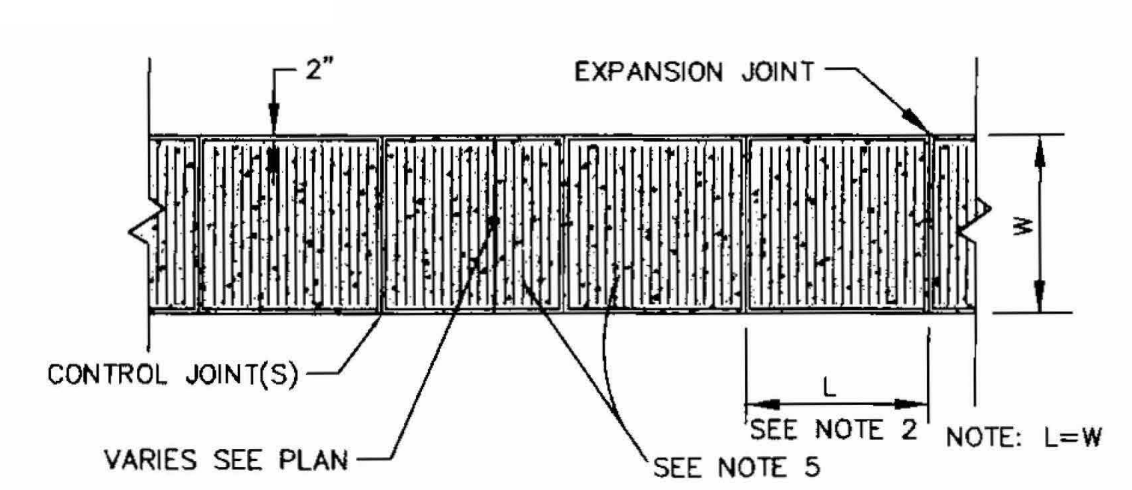
NOTE: PLACE CONCRETE WHEEL STOP 2'-4" FROM EDGE OF PARKING SPACE.
WHEEL STOP DETAILS



COLORS
LEGEND AND BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
BACKGROUND - WHITE
NOTE: FOR ADDITIONAL INFORMATION, REFER TO SIGN MOUNTING DETAIL, THIS SHEET.

J. Section 4.6.4 Signage. Each accessible parking space shall be identified by an approved sign with the bottom edge at least 7 feet above the ground, unless the sign is placed flush against a building, structure, or other location that does not obstruct vehicle or pedestrian traffic, in which case the sign shall be at least 6 feet and no more than 10 feet above the ground. Signs shall bear the international symbol of access and the words "Reserved Parking" and shall be in conformance with the requirements of the Maryland District of Columbia.

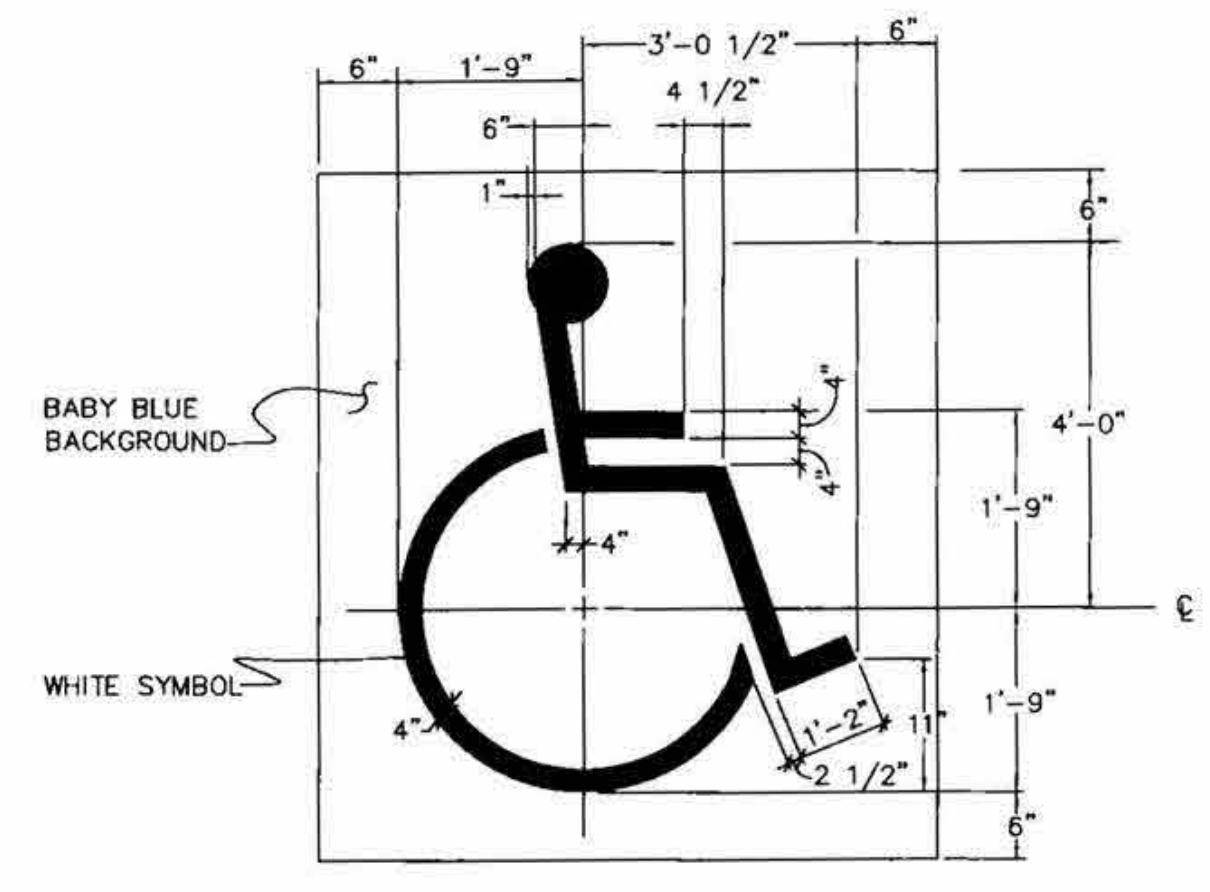
4 WHEELSTOP DETAIL
AS.05 SCALE: NOT TO SCALE



- NOTES:**
- MATERIALS AND CONSTRUCTION METHODS SHALL MATCH DDOT STANDARDS. CONCRETE SHALL BE MIN. 3500 PSI CLASS F CONCRETE. 3500 PSI CLASS E CONCRETE SHALL BE USED WHERE SUBJECTED TO VEHICLE TRAFFIC.
 - CONTROL JOINTS, SPACED TO MATCH SIDEWALK WIDTH (8" MAX), SHALL BE INSTALLED IN THE SIDEWALK CONCRETE TO FORM SQUARE PANELS. CONTROL JOINTS SHALL BE SAW-CUT OR FORMED, 1 1/4" DEEP.
 - EXPANSION JOINTS FOR SIDEWALK SHALL BE 1/4" WIDTH PREFORMED CORK MATERIAL INSTALLED EVERY 15' MAX.
 - EXPANSION JOINTS FOR MEDIUM & HEAVY DUTY SIDEWALK/CONCRETE PAVING SHALL BE 1/2" WIDTH PREFORMED CORK INSTALLED EVERY 30' MAX. WITH DOWELS AT 12" SPACING. 1/2" EXPANSION JOINTS SHALL ALSO BE PLACED WHERE SIDEWALKS ABUT CURBS AND OTHER RIGID STRUCTURES.
 - FINISH SURFACES WITH A LIGHT BROOM FINISH.
 - INSTALL REINFORCING MIN. 2" FROM SURFACES AND EDGES, TYP.

TYPICAL SIDEWALK DETAILS

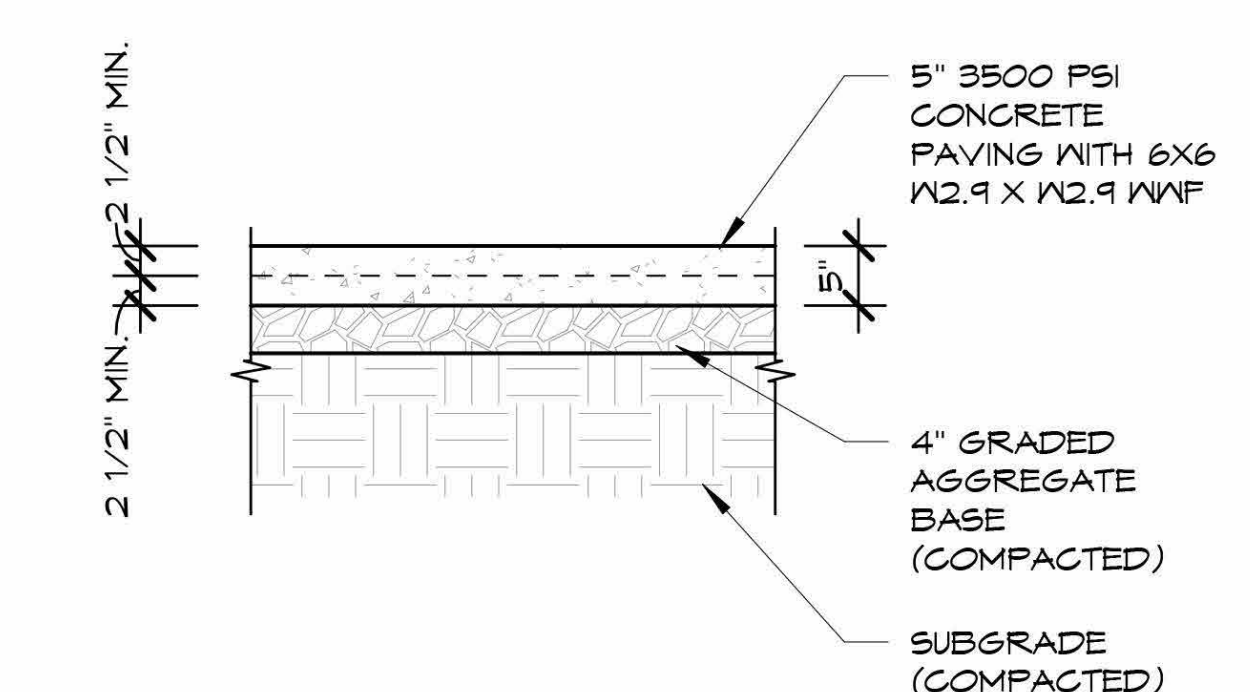
HANDICAP PARKING SIGN



PLACE SYMBOL @ CENTERLINE OF STALL, REFER TO PARKING STRIPING DETAIL THIS SHEET FOR DIMENSIONS.

NOTE: THIS DETAIL PROVIDED FOR REFERENCE ONLY! ALL DIMENSIONS, LAYOUT, BACKGROUNDS AND COLOR MUST CONFORM TO MOST CURRENT ADA GUIDELINES.

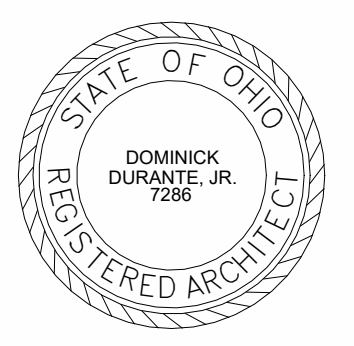
HANDICAP PARKING SYMBOL PAVEMENT PAINTING



3 PAVEMENT DETAIL
AS.05 SCALE: 3/4" = 1'-0"

2 SIDEWALK DETAIL
AS.05 SCALE: NOT TO SCALE

1 HANDICAP DETAILS
AS.05 SCALE: NOT TO SCALE




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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

| REV | DATE | DESCRIPTION |
|------------|------|----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S- OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL 
TYPICAL UNLESS NOTED OTHERWISE

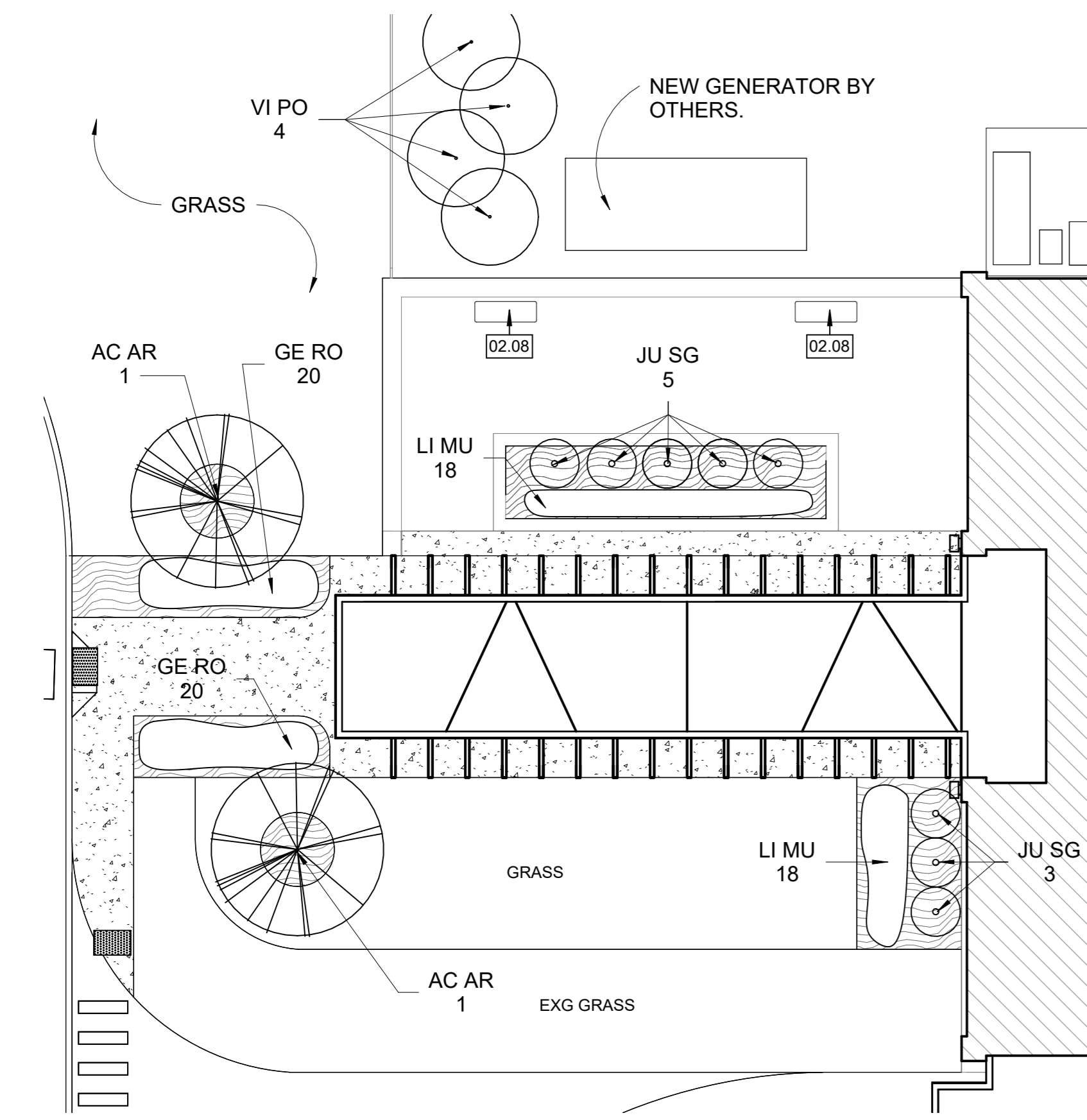
- 02.01 PROVIDE NEW ACCESSIBLE PARKING SIGNAGE.
- 02.05 PROVIDE NEW ACCESSIBLE VAN PARKING SIGNAGE.
- 02.08 PROVIDE NEW ULINE 6" COURTYARD BENCH WITH BACK #H-3018. ARCHITECT TO SELECT COLOR.

Overall Site Plant Material List:

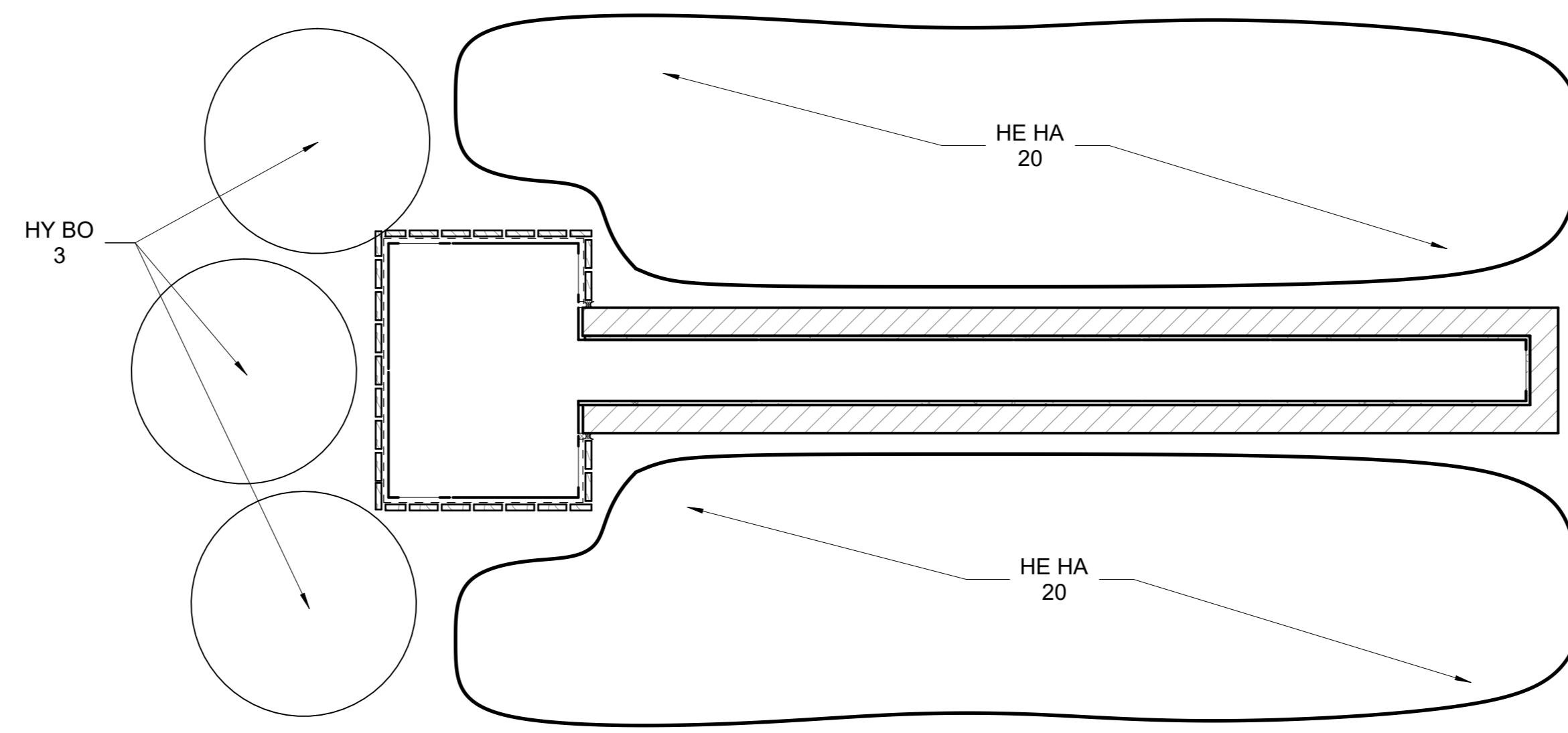
| Trees | | | | | |
|-------|-------|--------------------------------|--------------------|-------------|-------|
| KEY | QUAN. | BOTANICAL NAME | COMMON NAME | SIZE | COND. |
| AC CE | 04 | ACER X FREEMANI 'AUTUMN BLAZE' | AUTUMN BLAZA MAPLE | 4" Cal. | B&B |
| AC AR | 03 | ACER X FREEMANI 'ARMSTRONG' | ARMSTRONG MAPLE | 4" Cal. | B&B |
| CO KO | 04 | CORNUS KOUSA 'CHINENSIS' | KOUSA DOGWOOD | 8" HT. | B&B |
| ST PS | 01 | STEWARTIA PSEUDOCAMELLIA | JAPANESE STEWARTIA | 6" HT. dump | B&B |
| TI CO | 06 | TILIA CORDATA 'GREENSPIRE' | GREENSPIRE LINDEN | 3" Cal. | B&B |

| Shrubs | | | | | |
|--------|-------|---------------------------------|-----------------------------|--------|-------|
| KEY | QUAN. | BOTANICAL NAME | COMMON NAME | SIZE | COND. |
| FO GA | 05 | FOTHERGILLA GARDENII | DWARF FOTHERGILLA | No. 3 | CONT. |
| HY BO | 03 | HYDRANGEA PANICULATA 'BOBO' | BOBO HYDRANGEA | No. 7 | CONT. |
| IT VI | 11 | ITEA VIRGINICA 'HENRY'S GARNET' | HENRY'S GARNET SWEETSPIRE | No. 5 | CONT. |
| JU SG | 08 | JUNIPERUS CHINENSIS 'SEA GREEN' | SEA GREEN JUNIPER | No. 7 | CONT. |
| TA ME | 11 | TAXUS MEDIA 'EVERLOW' | EVERLOW YEW | 36" HT | B&B |
| TH EM | 23 | THUJA OCCIDENTALIS 'EMERALD' | EMERALD ARBORVITAE | 8" HT | B&B |
| VI PO | 04 | VIBURNUM PULICATUM 'POPCORN' | POPCORN DOUBLEFILE VIBURNUM | 30" HT | CONT. |

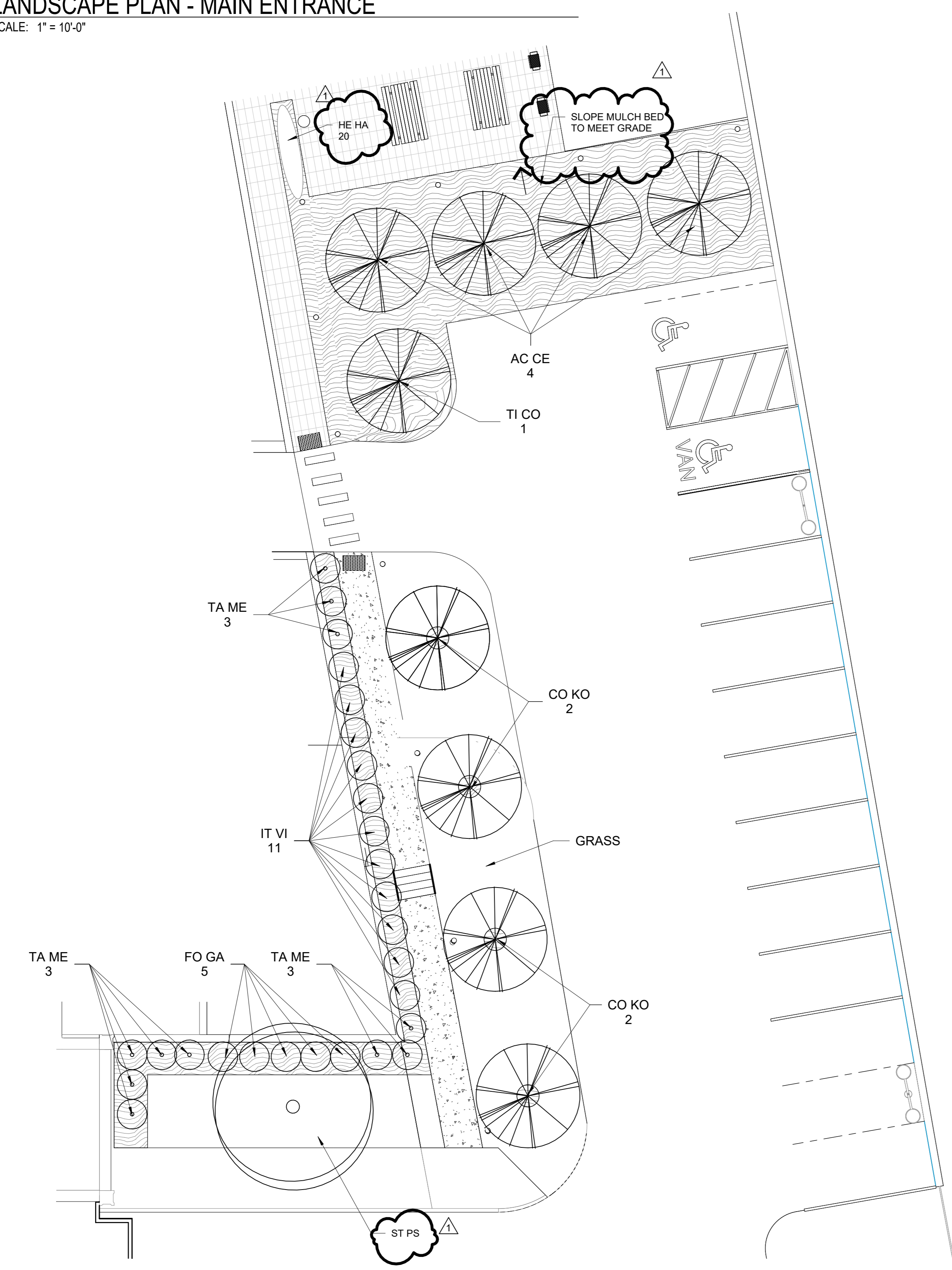
| Perennials and Groundcovers | | | | | |
|-----------------------------|-------|-----------------------------|-----------------------|-------|-------|
| KEY | QUAN. | BOTANICAL NAME | COMMON NAME | SIZE | COND. |
| GE RO | 40 | GERANIUM X 'ROZANNE' | ROZANNE CRANESBILL | No.1 | CONT. |
| HE HA | 60 | HEMEROCALLIS 'HAPPY RETURN' | HAPPY RETURN DAYLILLY | No. 1 | CONT. |
| LI VI | 36 | LIRIOPE MUSCARI 'VARIEGATA' | VARIEGATED LILY TURF | No.1 | CONT. |



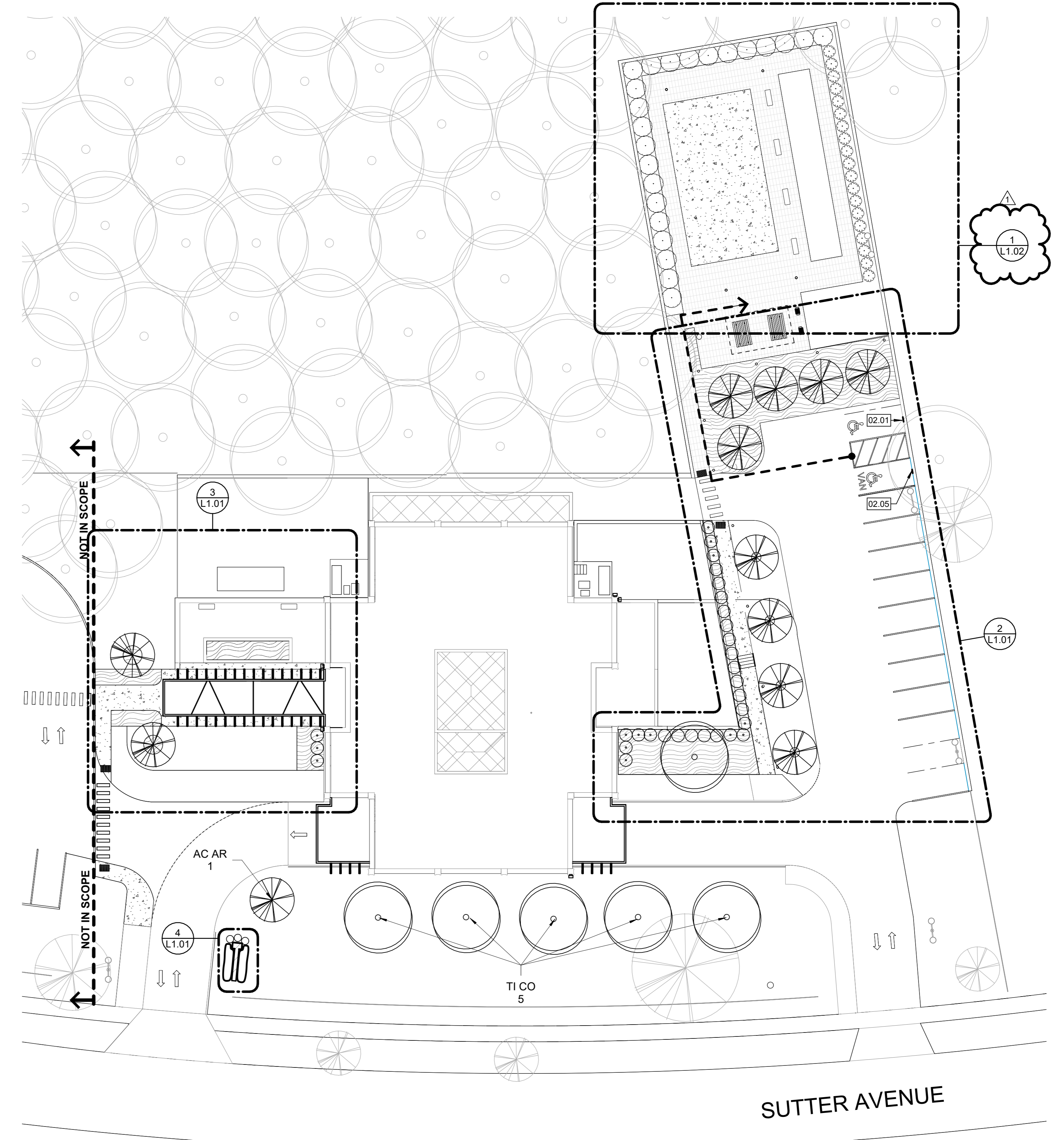
3 LANDSCAPE PLAN - MAIN ENTRANCE
L1.01 SCALE: 1" = 10'-0"



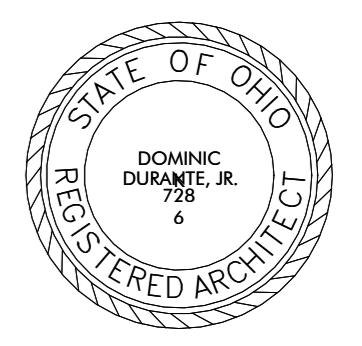
4 MONUMENT SIGN PLAN - LANDSCAPE
L1.01 SCALE: 3/4" = 1'-0"



2 LANDSCAPE PLAN - NORTH PARKING LOT
L1.01 SCALE: 1" = 10'-0"



1 PROPOSED LANDSCAPE PLAN
L1.01 SCALE: 1" = 20'-0"



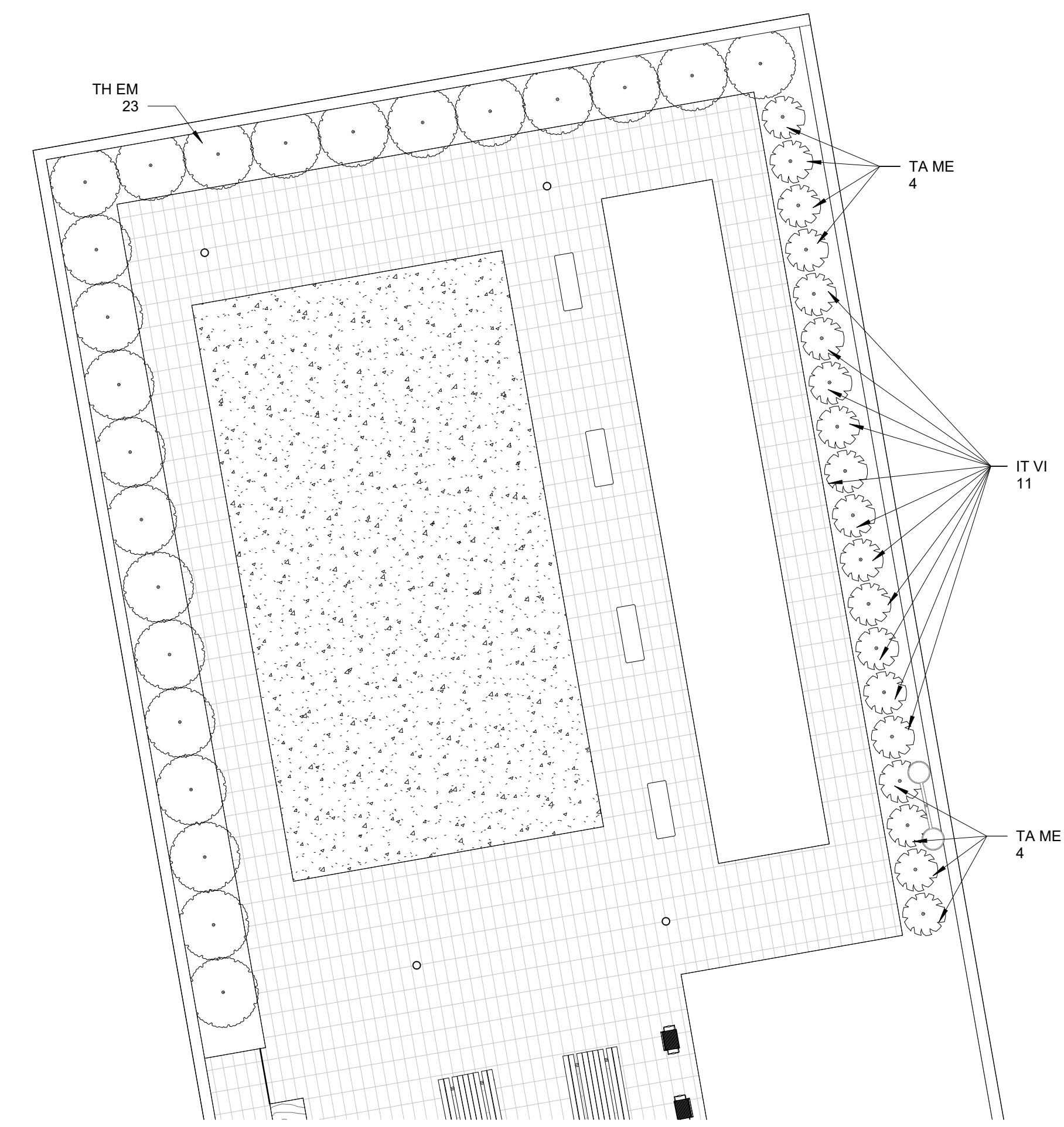
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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47
PROPOSED LANDSCAPE PLANS

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------|
| △ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |
| | | |
| | | |
| | | |



1 ENLARGED RECREATION LANDSCAPE PLAN
L1.02 SCALE: 1" = 10'-0"



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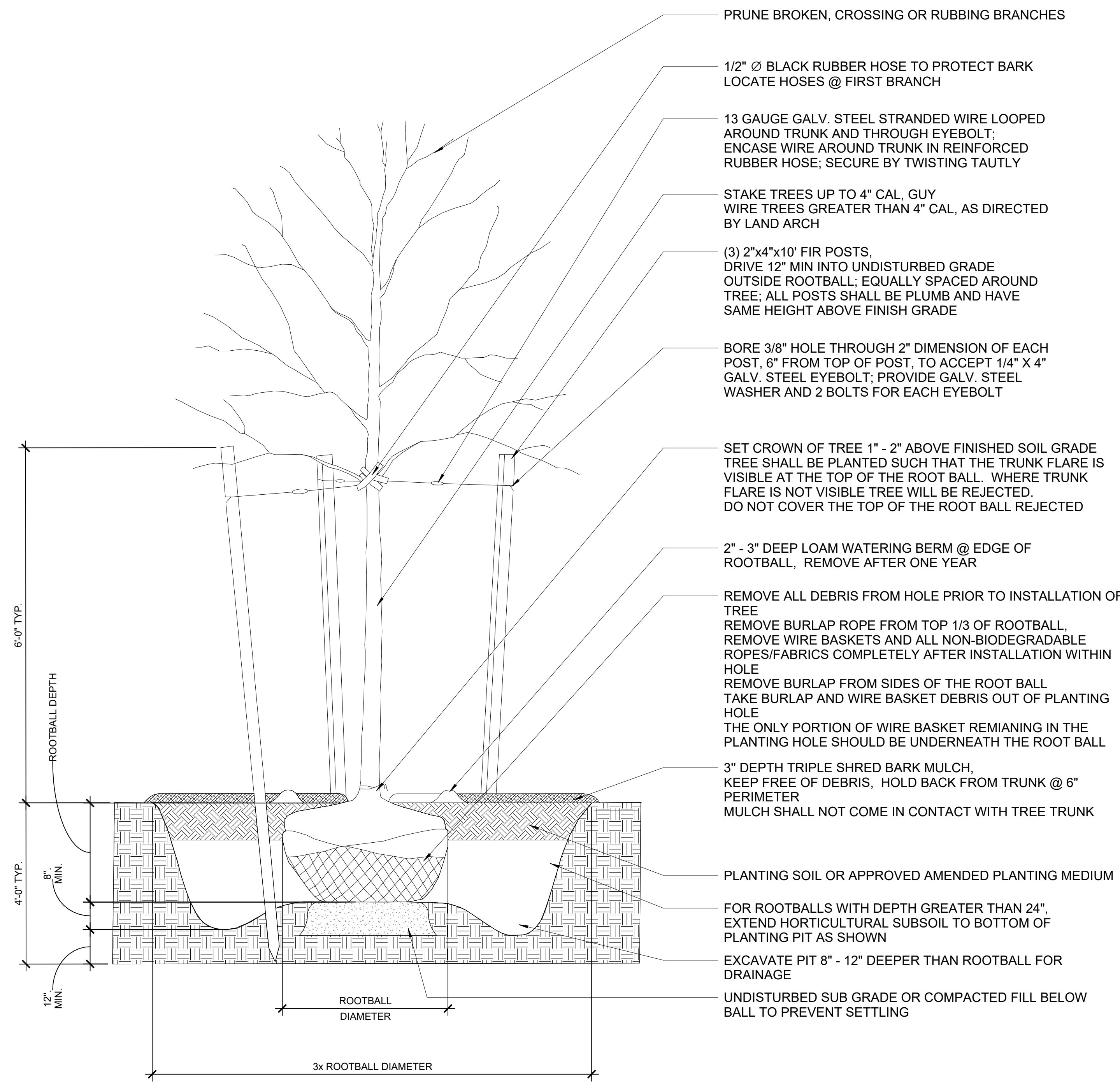
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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No. 22-47

LANDSCAPE PLANS
L1.02

| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



NOTE:

DO NOT HEAVILY PRUNE THE TREE AT PLANTING; PRUNE
ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND
BROKEN OR DEAD BRANCHES. DO NOT REMOVE THE
TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE
EDGE OF THE CANOPY

NOTES:
REFER TO TYPICAL TREE PLANTING
DETAIL FOR ADDITIONAL INFORMATION

REMOVE BURLAP ROPE FROM TOP 1/3
OF ROOTBALL, REMOVE WIRE BASKETS
AND ALL NON-BIODEGRADABLE
ROPES/FABRICS

ROUND -TOPPED SOIL BERM 4"
HIGH X 8" WIDE ABOVE ROOT
BALL SURFACE SHALL BE
CENTERED ON THE DOWNHILL
SIDE OF THE ROOT BALL FOR
240°. BERM SHALL BEGIN AT
ROOT BALL PERIPHERY.

MODIFIED SOIL, DEPTH VARIES.

6 TYP. TREE ON SLOPE DETAIL
SCALE: 3/4" = 1'-0"

4" LAYER OF MULCH, NO
MORE THAN 1" OF MULCH
ON TOP OF ROOT BALL.

ORIGINAL SLOPE SHOULD
PASS THROUGH THE POINT
WHERE THE TRUNK MEETS
SOIL.

MODIFIED SOIL, DEPTH
VARIES.

BOTTOM OF ROOT
BALL REST ON
RECOMPACTED SOIL.

CENTRAL LEADER

ORIGINAL SLOPE SHOULD
PASS THROUGH THE POINT
WHERE THE BASE OF TRUNK
MEETS SOIL

PRIOR TO MULCHING, LIGHTLY
TAMP SOIL AROUND THE ROOT
BALL IN 6" LIFTS TO BRACE TREE.
DO NOT OVER COMPACT. WHEN
THE PLANTING HOLE HAS BEEN
BACKFILLED, POUR WATER
AROUND THE ROOT BALL TO
SETTLE THE SOIL.

3-4" LAYER OF MULCH, NO MORE
THAN 1" OF MULCH ON TOP OF
ROOT BALL.

BOTTOM OF ROOT BALL TO
REST ON EXISTING OR
RECOMPACTED SOIL

4 TYP. SHRUB ON SLOPE DETAIL
SCALE: 1" = 1'-0"

4" LAYER OF MULCH, NO
MORE THAN 1" OF MULCH
ON TOP OF ROOT BALL.

ORIGINAL SLOPE SHOULD
PASS THROUGH THE POINT
WHERE THE TRUNK MEETS
SOIL.

MODIFIED SOIL, DEPTH
VARIES.

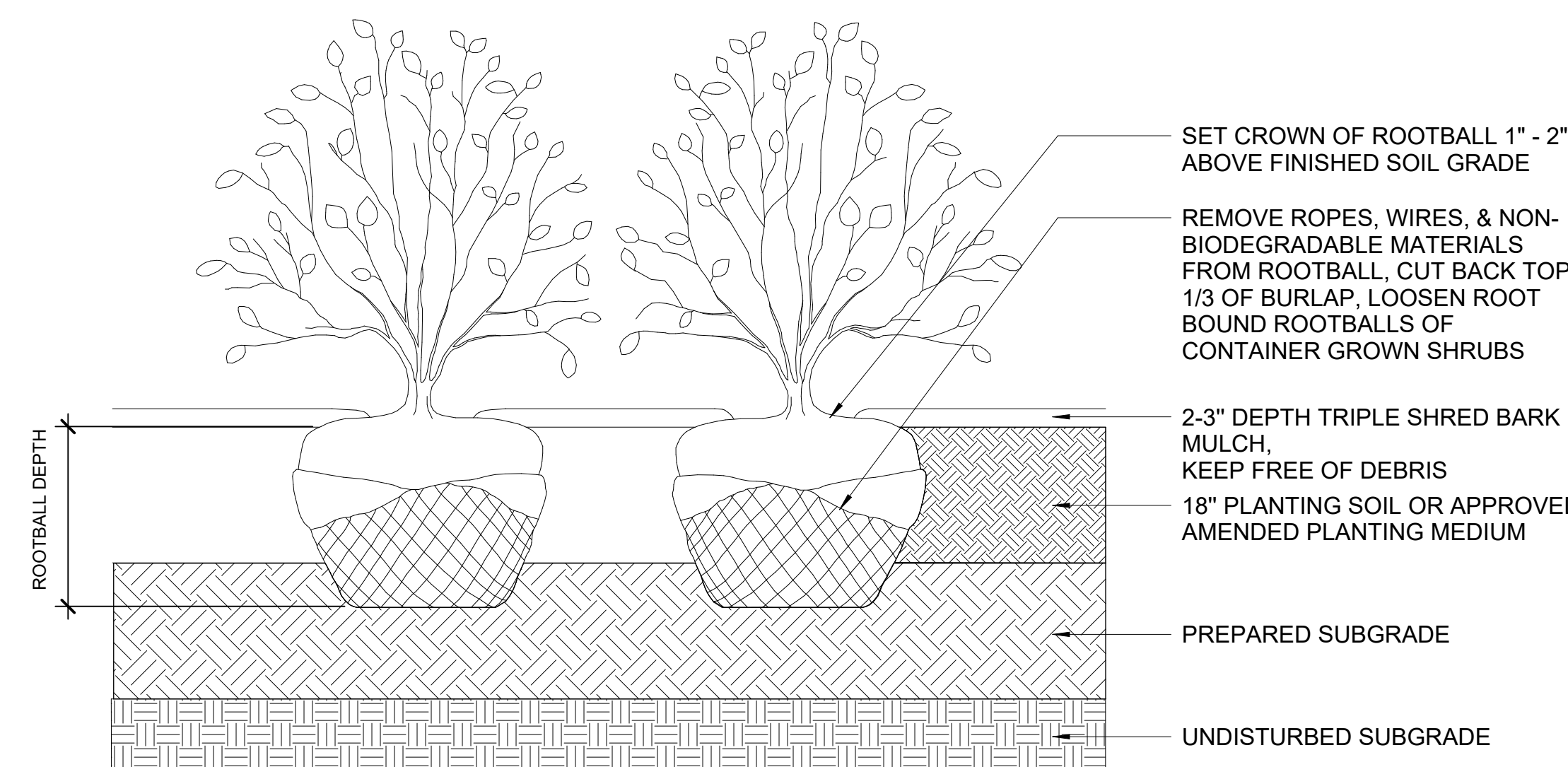
BOTTOM OF ROOT
BALL REST ON
RECOMPACTED SOIL.

SHRUB

4" HIGH X 8" WIDE ROUND-TOPPED SOIL BERM ABOVE
ROOT BALL SURFACE SHALL BE CENTERED ON THE
DOWNHILL SIDE OF THE ROOT BALL FOR 240°. BERM
SHALL BEGIN AT ROOT BALL PERIPHERY.

PRIOR TO MULCHING, LIGHTLY TAMP SOIL AROUND
THE ROOT BALL IN 6" LIFTS TO BRACE SHRUB. DO
NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS
BEEN BACKFILLED, POUR WATER AROUND THE ROOT
BALL TO SETTLE THE SOIL.

5 TYP. TREE DETAIL
SCALE: 1/2" = 1'-0"



FACE OF BUILDING OR EDGE
OF PAVEMENT, WHERE
APPLICABLE

18" O.C. TYP. UNLESS
SPECIFIED ON PLANT LIST

2-3" DEPTH TRIPLE SHRED BARK MULCH,
KEEP FREE OF DEBRIS
REMOVE CONTAINERS
& LOOSEN ROOTBALLS,
PLANT GROWN TO BE +/- 1/2" ABOVE
FINISHED SOIL GRADE

18" PLANTING SOIL OR APPROVED
AMENDED PLANTING MEDIUM

PREPARED SUBGRADE

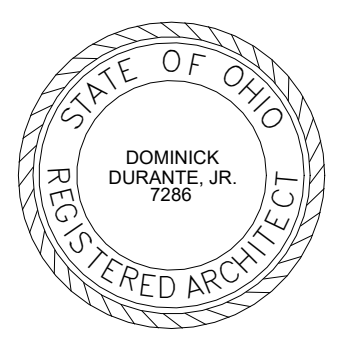
UNDISTURBED SUBGRADE

GRASS SEED OR SOD

2-3" TOPSOIL
ROTOTILL SUBGRADE TO A DEPTH
OF 4"

2 TYP. PERENNIAL DETAIL
SCALE: 1" = 1'-0"

1 TYP. GRASS DETAIL
SCALE: 1" = 1'-0"



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Cincinnati Metropolitan Housing
Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No. 24-77

| REV | DATE | DESCRIPTION |
|------------|------|----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S- OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

- DEMOLITION GENERAL NOTES. CONTINUED**
3. ALL CONTRACTORS TO ENSURE FIRE SEPARATION RATINGS AND FIRE STOPPING AS SPECIFIED BY CODE. WHERE EACH TRADE PENETRATES A TENANT SEPARATION WALL, THAT TRADE WILL BE RESPONSIBLE TO SEAL TIGHT OPENINGS WITH MATERIAL TO MATCH THE FIRE RESISTANCE RATING OF THE IN-PLACE CONSTRUCTION. ALL CONCEALED SPACES TO HAVE FIRE STOPPING AND/OR DRAFT STOPPING BETWEEN FLOORS AND/OR UNITS.
 4. ALL NEW DRYWALL WALLS AND CEILINGS ARE TO RECEIVE A LEVEL 4 FINISH PER ASTM C840 STANDARDS.
 5. PROVIDE MOISTURE AND MOLD RESISTANT NON-PAPER FACE WALL BOARD AT ALL WET LOCATIONS (BATHROOMS AND KITCHENS) WALLS AND CEILINGS. PROVIDE CEMENT BOARD BEHIND ALL TILE LOCATIONS.
 6. COORDINATE FINAL CABINERY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DIMENSIONS WITH COUNTERTOPS AND CABINETS.
 7. COORDINATE ALL SELECTED FINISHES WITH ARCHITECT. A PHYSICAL SAMPLE MUST BE SUBMITTED FOR FINAL APPROVAL BEFORE INSTALLATION.
 8. PAINT FINISHES: FLAT FINISH FOR CEILINGS AND SOFFITS. SEMI-GLOSS FINISH FOR TRIM, AND EGGSHELL FINISH FOR ALL WALLS, TYPICAL.

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN.
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

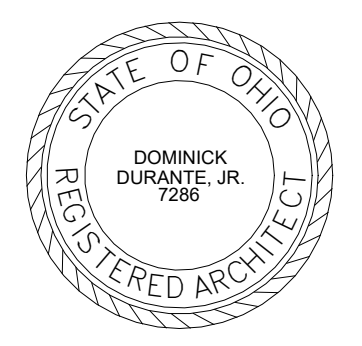
- D1 REMOVE PORTION OF EXISTING WALL AND ANY ASSOCIATED UTILITIES OR EQUIPMENT.
- D2 REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW DOOR. REFER TO DOOR SCHEDULE FOR NEW DOOR SIZE.
- D3 REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- D4 REMOVE ALL EXISTING TILE FLOORING AND VINYLBASE FROM RESTROOM. PREPARE SUBFLOOR TO RECEIVE NEW FINISHES.
- D5 REMOVE EXISTING FLOORING AND VINYL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING.
- D6 REMOVE EXISTING WALL IN ITS ENTIRETY UP TO STRUCTURAL DECK.
- D21 REMOVE EXISTING METAL TRASH CHUTE FROM SHAFT. REMOVE MISCELLANEOUS METAL FRAMING AROUND CHUTE OPENING.
- D23 REMOVE EXISTING LOUVER SYSTEM.

DEMOLITION GENERAL NOTES

1. THE EXTENT OF DEMOLITION IS GENERALLY DESCRIBED. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION WORK REQUIRED TO ACCOMMODATE THE INSTALLATION OF THE PROPOSED WORK.
2. BRACE AND SUPPORT EXISTING WORK PRIOR TO AND DURING DEMOLITION AND NEW CONSTRUCTION UNTIL SAFE TO REMOVE SUCH BRACING AND SUPPORTS.
3. EACH CONTRACTOR AND VENDOR SHALL COORDINATE AND COOPERATE WITH OTHER TRADES. SCHEDULE ALL WORK THROUGH THE GENERAL CONTRACTOR.
4. PIPES, CONDUIT, AND DUCTWORK ENCOUNTERED IN DEMOLISHED PARTITIONS AND CEILINGS WHICH ARE TO REMAIN SHALL BE RE-ROUTED AND CONCEALED. THOSE WHICH ARE ABANDONED SHALL BE CAPPED AND CONCEALED IN THE FLOOR, WALLS, OR CEILING.
5. CONTRACTOR IS RESPONSIBLE TO FIRESTOP NEWLY ENCOUNTERED PIPES AND CONDUITS DUE TO DEMOLITION THAT WERE NOT PREVIOUSLY EXPOSED AND ARE NOT CURRENTLY FIRESTOPPED.
6. REPAIR ALL DAMAGE TO EXISTING CONSTRUCTION CAUSED BY DEMOLITION. REPAIR TO MATCH ADJACENT CONSTRUCTION.
7. SALVAGEABLE MATERIALS TO BE REMOVED AND TURNED OVER TO THE OWNER SHALL BE IDENTIFIED BY THE OWNER AND/OR ARCHITECT PRIOR TO THE BEGINNING OF WORK AND ARE TO BE STORED ON SITE AT A LOCATION DESIGNATED BY THE OWNER.
8. ANY PROJECTING OR SURFACE MOUNTED ITEMS NOT PART OF WORK AND/OR ABANDONED SHALL BE REMOVED. CONTRACTOR TO PATCH AND FILL HOLES AND PENETRATIONS TO MATCH EXISTING.
9. CLEAN AND PREPARE ALL SURFACES TO ACCEPT NEW WORK. THIS INCLUDES PATCHING AND REPAIRING ALL PENETRATIONS FROM REMOVED DUCTWORK, VENTS, DOOR FRAMES, ETC. ALL PATCHING AND NEW DRYWALL TO BE FLUSH AND MATCH EXISTING.

FLOOR PLANS AND FINISHES

1. ALIGN NEW WALLS WITH EXISTING. PATCH TO CREATE A SMOOTH SEAMLESS SURFACE.
2. INTERIOR DIMENSIONS ARE TO FINISH FACE UNLESS NOTED OTHERWISE. DIMENSIONS TO OPENINGS ARE TO CENTER OF OPENING. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE EXISTING CONDITIONS, CONSTRUCTION DIMENSIONS, AND CLEARANCES. DO NOT SCALE DRAWINGS.



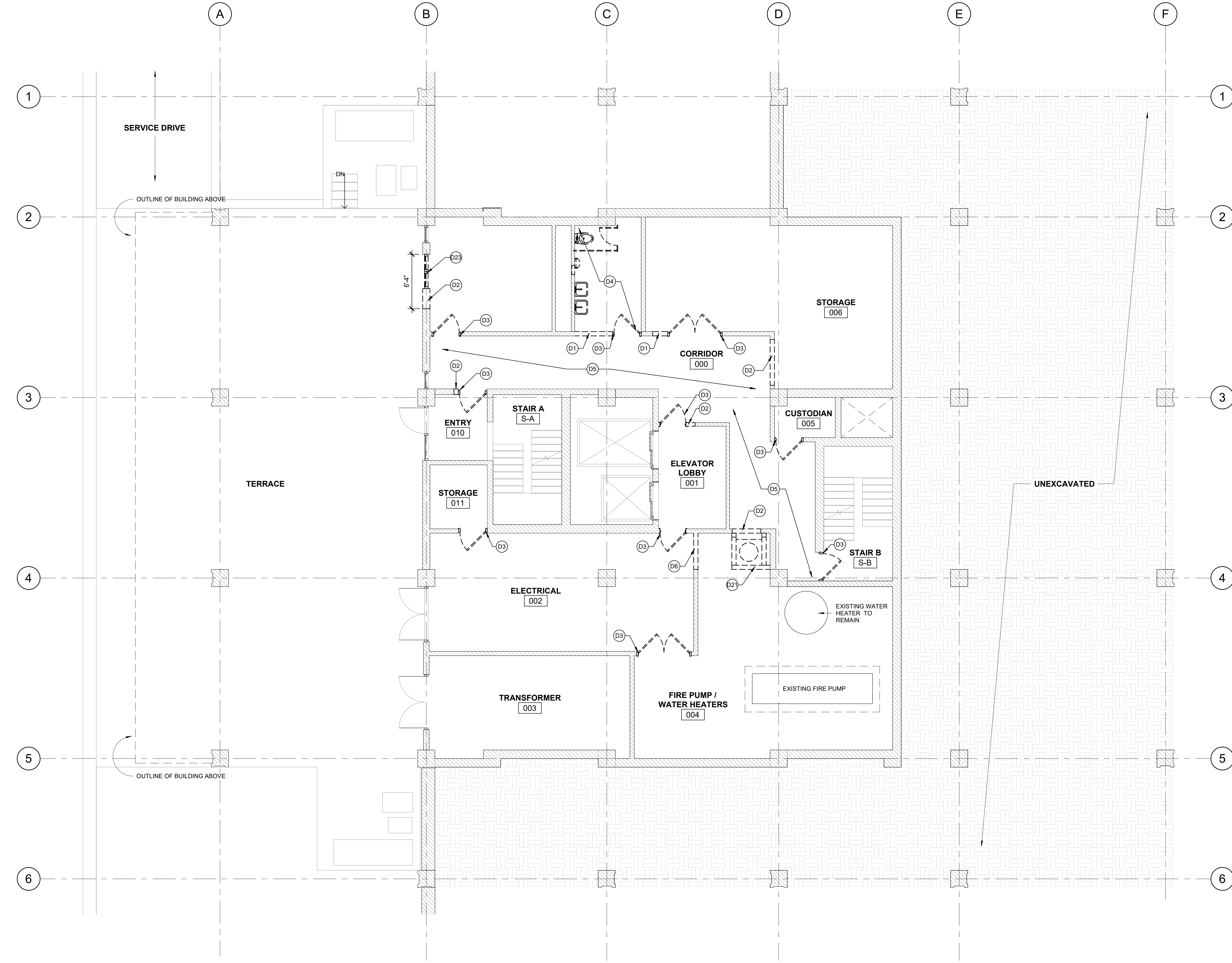
DOMINICK DURANTE, JR.
LICENSE #7296
EXPIRATION 12/31/2025

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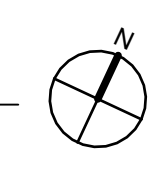
Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

OVERALL BASEMENT LEVEL DEMOLITION PLAN
D1.01



1 OVERALL BASEMENT LEVEL DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



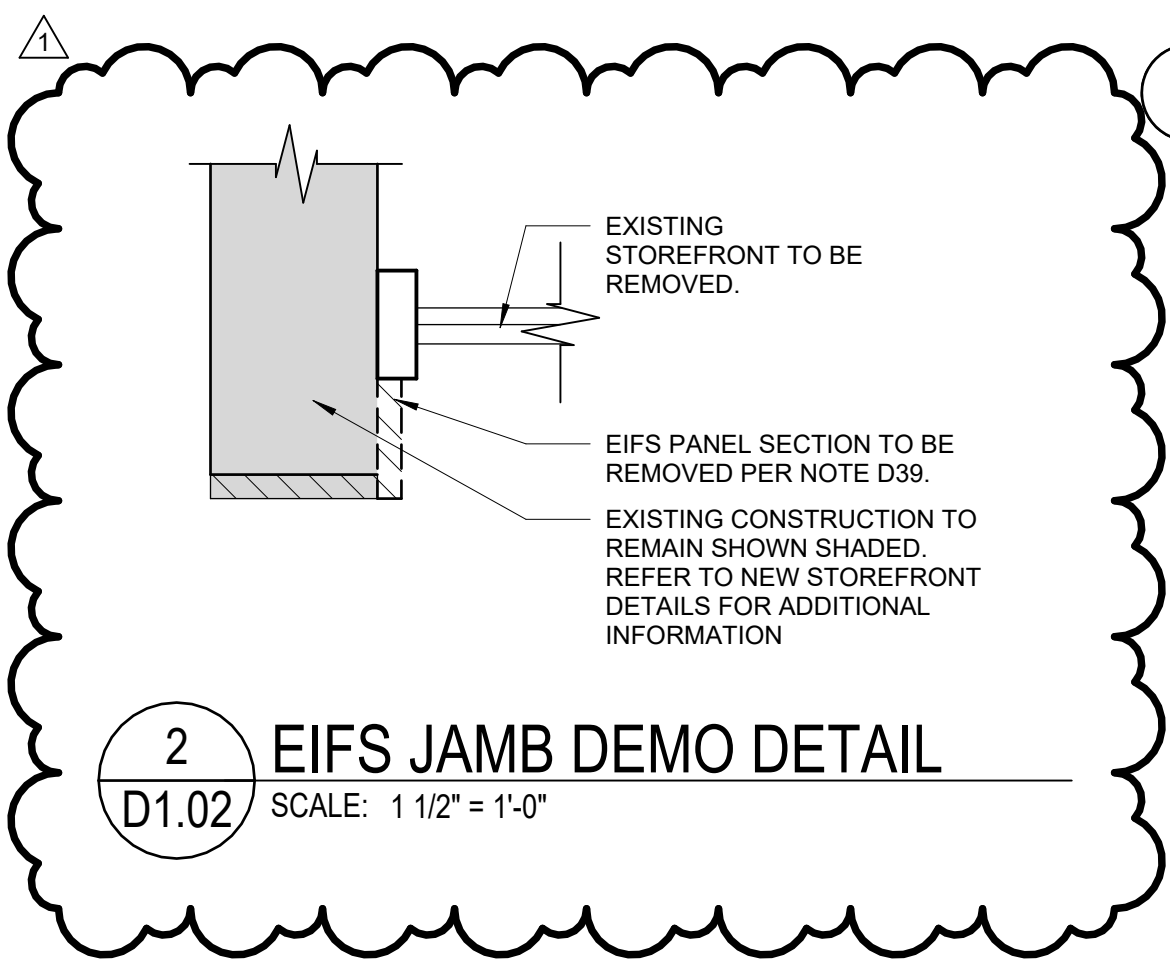
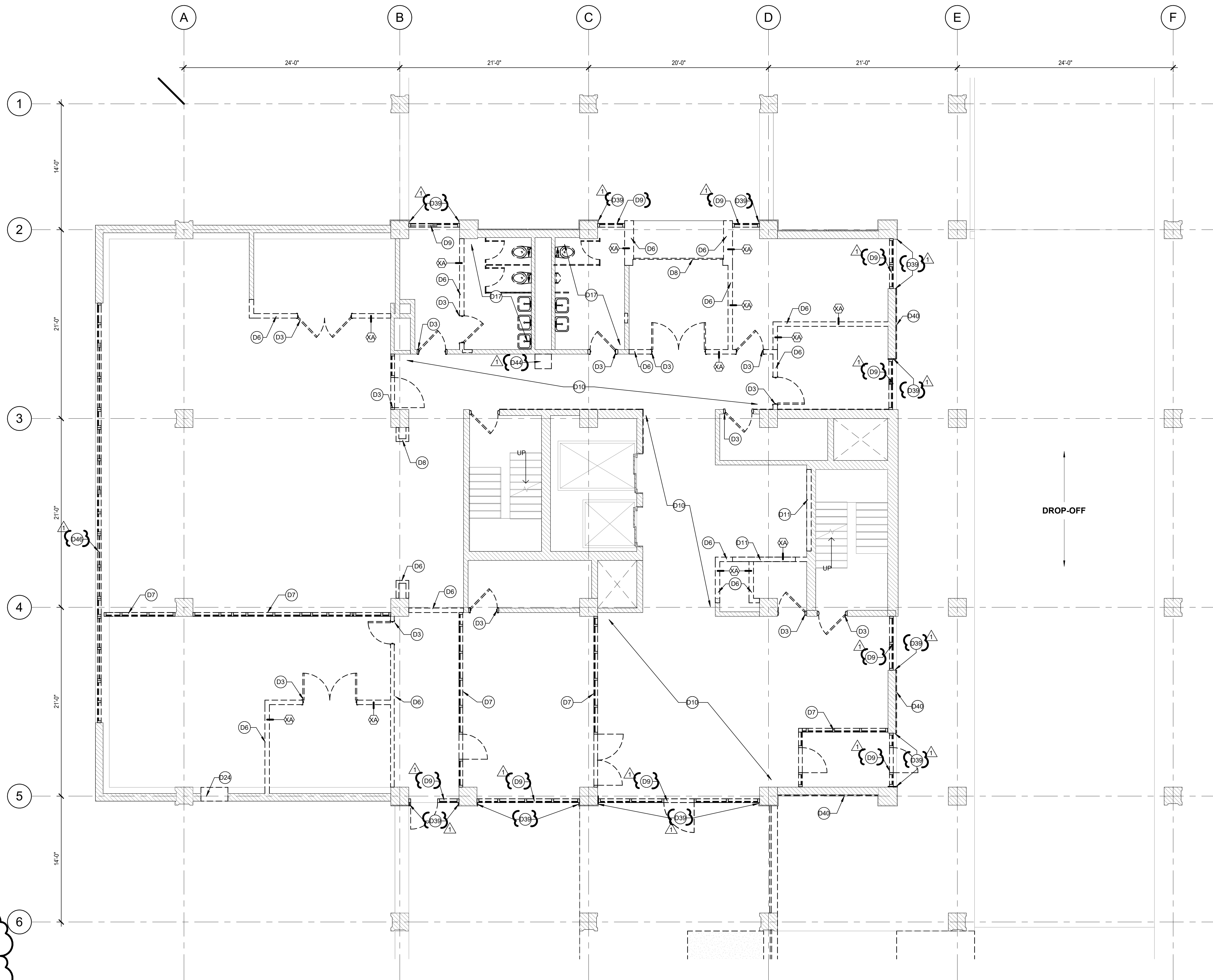
| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN.
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

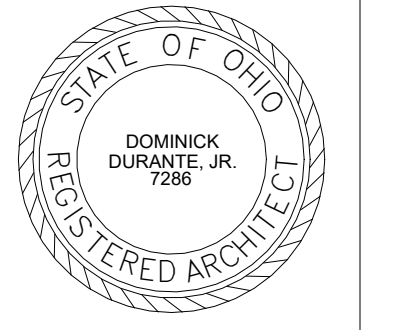
KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- D3 REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- D6 REMOVE EXISTING WALL IN ITS ENTIRETY UP TO STRUCTURAL DECK.
- D7 REMOVE EXISTING INTERIOR STOREFRONT SYSTEM INCLUDING GLASS, FRAMES, AND HARDWARE IN THEIR ENTIRETY.
- D8 REMOVE EXISTING OVERHEAD DOOR, STEEL ANGLES, AND CONCRETE BLOCK BULKHEAD IN THEIR ENTIRETY UP TO STRUCTURAL DECK.
- D9 REMOVE EXISTING EXTERIOR STOREFRONT SYSTEM IN ITS ENTIRETY. REMOVE BULKHEAD FRAMING, INSULATION, AND INTERIOR AND EXTERIOR FINISHES IN THEIR ENTIRETY.
- D10 REMOVE EXISTING FLOOR AND WALL TILE THROUGHOUT EXISTING LOBBY AND CORRIDOR. PREPARE SURFACES TO RECEIVE NEW FINISHES.
- D11 REMOVE EXISTING MAILBOXES IN THEIR ENTIRETY.
- D17 REMOVE ALL EXISTING TILE FLOORING, BASE, PLUMBING FIXTURES, GRAB BARS, AND MIRRORS FROM BATHROOM.
- D24 REMOVE PORTION OF EXISTING EXTERIOR WALL TO ACCOMMODATE NEW STOREFRONT WINDOW. REFER TO STOREFRONT AND WALL TYPES.
- D39 REMOVE EXISTING EIFS EXTERIOR FINISH PANELS AT STOREFRONT JAMBS. REFER TO DETAIL THIS SHEET.
- D40 REMOVE EXISTING EIFS EXTERIOR FINISH PANELS DOWN TO SUBSTRATE.
- D44 REMOVE AND REPLACE EXISTING DRINKING FOUNTAIN.
- D46 REMOVE EXISTING EXTERIOR STOREFRONT SYSTEM IN ITS ENTIRETY. EXISTING BULKHEAD, INTERIOR AND EXTERIOR FINISHES ARE INTENDED TO REMAIN AT THIS LOCATION.



2 EIFS JAMB DEMO DETAIL
D1.02 SCALE: 1 1/2" = 1'-0"

1 OVERALL GROUND LEVEL DEMOLITION PLAN
D1.02 SCALE: 3/16" = 1'-0"



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LDA Project No.23.47
OVERALL GROUND FLOOR DEMOLITION PLAN
D1.02

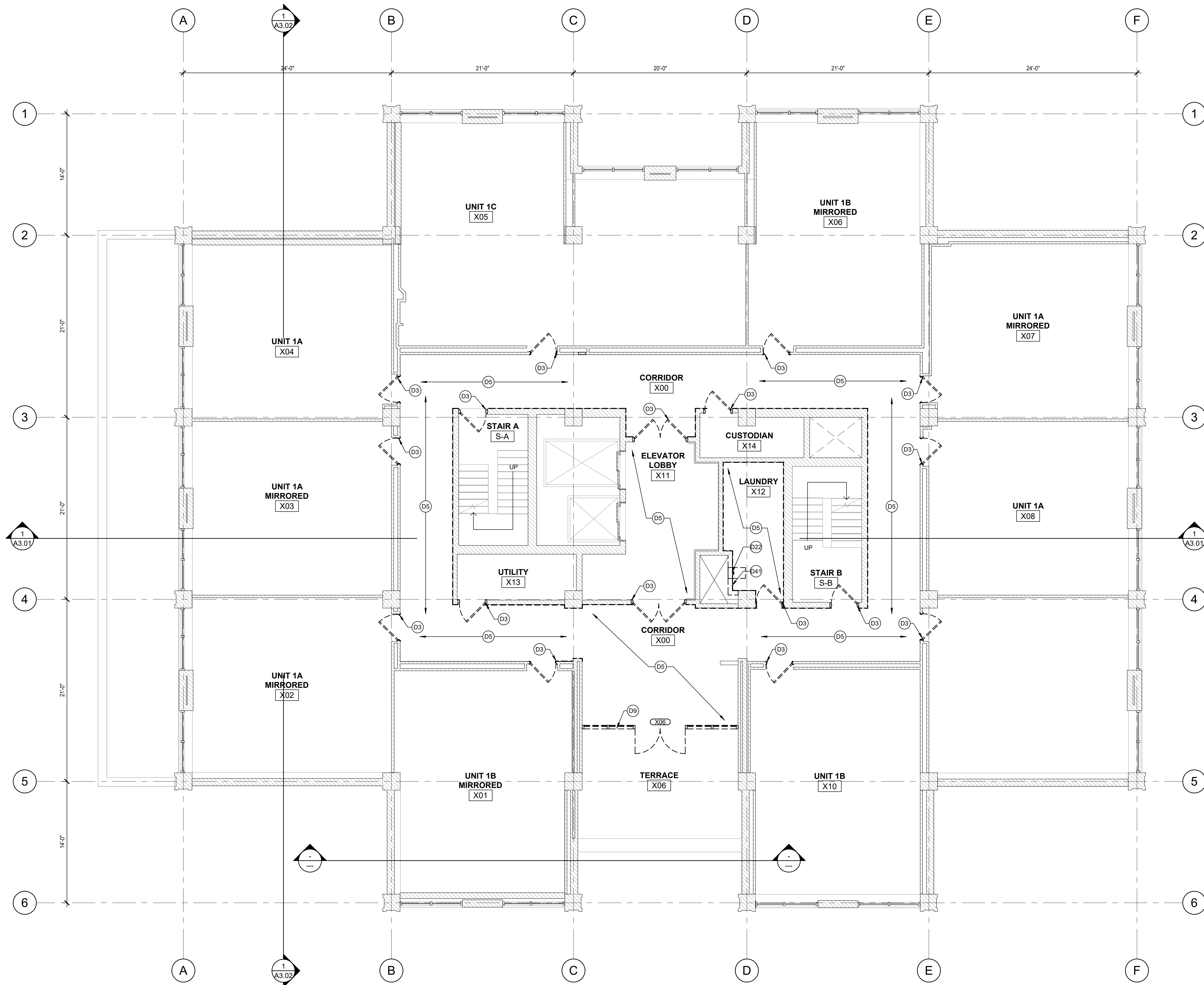
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| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN.
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- D3 REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- D5 REMOVE EXISTING FLOORING AND VINYL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING.
- D9 REMOVE EXISTING EXTERIOR STOREFRONT SYSTEM IN ITS ENTIRETY. REMOVE BULKHEAD FRAMING, INSULATION AND INTERIOR AND EXTERIOR FINISHES IN THEIR ENTIRETY.
- D22 REMOVE EXISTING TRASH CHUTE DOOR AT EACH FLOOR, TYPICAL.
- D41 REMOVE PORTION OF EXISTING WALL TO EXTENDS SHOWN ON LEVEL 2 ONLY. PREPARE AREA FOR FLOOR INFILL.



1 OVERALL 2ND - 15TH LEVEL PLAN - DEMOLITION
D1.03 SCALE: 3/16" = 1'-0"



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LDA Project No.23.47

OVERALL 2ND-15TH FLOOR DEMOLITION PLAN

D1.03

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| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN.
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

KEYED NOTES SPECIFIC TO THIS SHEET
 REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

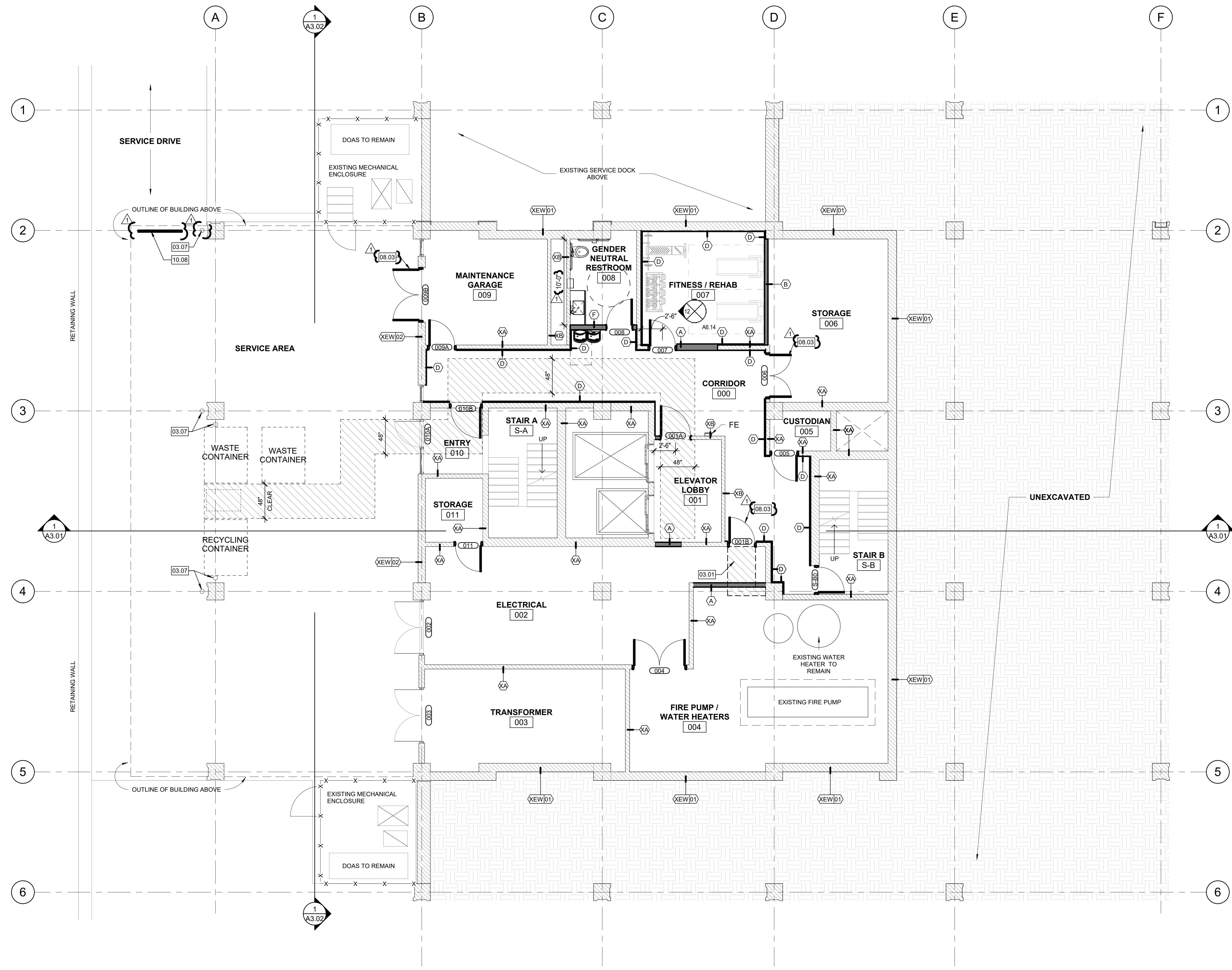
- 03.01 INFILL EXISTING CONCRETE SLAB WHERE TRASH CHUTE WAS REMOVED AT FIRST AND SECOND FLOOR. REFER TO STRUCTURAL.
- 03.07 PROVIDE NEW CONCRETE BOLLARD. REFER TO BOLLARD DETAIL 5 SHEET AS 04.
- 08.03 PROVIDE NEW DOOR, FRAME AND HARDWARE AT EXISTING WALL. REFER TO DOOR SCHEDULE.
- 10.08 PROVIDE "OVERHEAD CLEARANCE" SIGNAGE AT BUILDING OVERHANG. ATTACH TO EXISTING CEILING.

SCOPE OF WORK & GENERAL NOTES - COMMON AREAS

1. REFER TO COVER SHEET G0.01 FOR OVERALL PROJECT GENERAL NOTES AND DEMOLITION GENERAL NOTES.
2. REFER TO A8.00 SHEETS FOR DWELLING UNIT SCOPES OF WORK.
3. THE FOLLOWING SCOPE OF WORK APPLIES TO ALL COMMON AREAS OUTSIDE OF DWELLING UNITS, AND ARE TYPICAL UNLESS NOTED OTHERWISE.

COMMON AREA SCOPE OF WORK:

- A. PAINT ALL WALLS & PAINTABLE SURFACES. REFER TO FINISH SCHEDULE
- B. PROVIDE NEW FLOORING AND BASE AT ALL COMMON AREAS INCLUDING BUT NOT LIMITED TO CORRIDORS, RESIDENT AMENITIES, AND OFFICES. REFER TO FINISH SCHEDULE. NO NEW FLOORING IN STAIRS OR SERVICES AREAS UNLESS OTHERWISE NOTED
- C. PROVIDE NEW LED LIGHT FIXTURES IN ALL COMMON AREAS. REFER TO REFLECTED CEILING PLANS
- D. PROVIDE NEW ROOM SIGNAGE W/ BRAILLE AT EACH UNIT ENTRY DOOR. ALL PUBLIC AREAS AND COMMON SPACES AT THE HANDLE SIDE OF EACH DOOR IF APPLICABLE
- E. ALL EXISTING CORRIDOR HANDRAILS ARE TO REMAIN. REPAIR OR RE-SECURE HANDRAILS AS NEEDED.
- F. PROVIDE CORNER GUARDS AT ALL PUBLIC AREAS / CORRIDORS
- G. ALL DOORS, FRAMES AND HARDWARE ARE TO BE REPLACED WITH NEW. REFER TO A7.00 FOR DOOR SCHEDULE AND DETAILS. REPAIR ANY ELEMENTS THAT SHOW SIGNS OF WATER DAMAGE.
- H. ALL ACUSTIC CEILING TILES AND GRIDS ARE TO BE REPLACED. REFER TO REFLECTED CEILING PLANS
- I.



1 OVERALL BASEMENT LEVEL PLAN
 SCALE: 3/16" = 1'-0"

STATE OF OHIO
 REGISTERED ARCHITECT
 DOMINICK DURANTE, JR.
 LICENSE 07296
 EXPIRATION 10/31/2025

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 1999 Sutter Avenue, Cincinnati, OH 45225

SCOPE OF WORK - GROUND LEVEL (CONTINUED)

- OFFICES (102A & 102B)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW INTERIOR STOREFRONT SYSTEM AT CORRIDOR. REFER TO INTERIOR ELEVATIONS.
 C. PROVIDE NEW EXTERIOR STOREFRONT SYSTEM WITHIN EXISTING OPENING. REFER TO ELEVATIONS.
 D. PROVIDE CARPET TILE FLOORING & TILE TO CARPET SCHLUTER TRANSITION STRIP.
 E. PROVIDE SLIDING WINDOW INTO VESTIBULE 101.

- OPEN OFFICE (103), STAFF RESTROOM (104), STORAGE (105), IT CENTER (106) AND PRIVATE OFFICES (107 & 108)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. FLOORING THROUGHOUT OFFICE TO BE SEALED & STAINED CONCRETE. REFER TO FINISH SCHEDULE.
 C. NEW STAFF RESTROOM TO BE CONSTRUCTED AND MEET FULL ACCESSIBILITY STANDARDS.
 D. PROVIDE NEW OPEN WIRE SHELVING IN STORAGE CLOSET.
 E. NEW PRIVATE OFFICES TO BE CONSTRUCTED.
 F. PROVIDE NEW EXTERIOR STOREFRONT SYSTEMS AT EXISTING OPENINGS UNLESS NOTED OTHERWISE.
 G. PROVIDE CEMENT BOARD BEHIND ALL WALL TILE AS INDICATED IN SPECIFICATIONS.
 H. NEW IT CENTER TO BE CONSTRUCTED.
 I. PROVIDE NEW SLIDING WINDOW AT 103 INTO VESTIBULE 101.

- COMMUNITY ROOM (110)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE KITCHENETTE WITH LOCKABLE SLIDING DOORS ON SOUTH SIDE OF COMMUNITY ROOM. REFER TO INTERIOR ELEVATIONS.
 C. PROVIDE NEW STORAGE CABINETS, SHELVING, STACKED STONE VENEER ACCENT, AND ELECTRIC FIREPLACE AT NORTH END OF COMMUNITY ROOM. REFER TO INTERIOR ELEVATIONS.
 D. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

- RESTROOMS (111 & 112)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW FLOOR AND WALL TILE AT RESTROOMS. REFER TO INTERIOR ELEVATIONS.
 C. WOMEN'S RESTROOM TO HAVE WALL REMOVED TO MEET ACCESSIBILITY CLEARANCES. REFER TO DEMOLITION PLAN.
 D. PROVIDE NEW FIXTURES, ACCESSORIES, AND PARTITIONS IN RESTROOMS. REFER TO INTERIOR ELEVATIONS.
 E. PROVIDE CEMENT BOARD BEHIND ALL WALL TILE AS INDICATED IN SPECIFICATIONS.
 F. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

- MAILROOM (113)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. NEW MAILROOM TO BE CONSTRUCTED AT EXISTING SERVICE / LOADING DOCK. REFER TO DEMOLITION PLANS.
 C. PROVIDE NEW RECESSED MAILBOXES TO MEET ACCESSIBILITY REQUIREMENTS. REFER TO INTERIOR ELEVATIONS.
 D. PROVIDE TRASH PULL-OUT CABINET STORAGE WITH COUNTERTOP & 6" GROMMET. REFER TO INTERIOR ELEVATIONS.
 E. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

- VENDING (114)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW SEATING COUNTERTOP WITH SUPPORT BRACKETS. REFER TO INTERIOR ELEVATIONS.
 C. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

- FIRE COMMAND CENTER (115)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. NEW FIRE COMMAND CENTER TO BE CONSTRUCTED AT EXISTING MAIL ROOM. COORDINATE THE RELOCATION OF FIRE COMMAND EQUIPMENT WITH LOCAL FIRE DEPARTMENT.

- STAIRWELLS (S-A) (S-B)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW METAL CANE DETECTION RAILS AT THE BOTTOM LEVELS OF STAIRWELLS. TYPICAL. REFER TO ACCESSIBILITY STANDARDS SHEET G0.03.
 C. STAIRWELL RAILINGS TO BE REPAINTED.

- ELEVATORS**
 A. ELEVATOR MODERNIZATION BEING COMPLETED UNDER SEPARATE CONTRACT.
 B. PROVIDE NEW ELEVATOR CAB FINISHES.

- SCOPE OF WORK - GROUND LEVEL**
CORRIDOR (100)
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW EXTERIOR STOREFRONT SYSTEMS WITHIN EXISTING OPENINGS UNLESS NOTED OTHERWISE.
 C. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

- VESTIBULE (101)**
 A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
 B. PROVIDE NEW INTERIOR STOREFRONT SYSTEMS AT OFFICE RECEPTION AND CONFERENCE ROOM. REFER TO INTERIOR ELEVATIONS.
 C. PROVIDE NEW EXTERIOR STOREFRONT SYSTEM AT NEW MAIN ENTRY. REFER TO ELEVATIONS.
 D. PROVIDE NEW SLIP-RESISTANT TILE FLOORING (DAL TILE "STEP WISE") WITH 1/8" GROUT JOINT.

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| | 2024.03.21 | BIDDING AND PERMIT |
| 1 | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

FLOOR PLAN LEGEND

| | |
|--|--|
| | EXISTING WALL TO BE DEMOLISHED |
| | EXISTING WALL TO REMAIN |
| | NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES. |
| | ACCESSIBLE PATH. |
| | ACCESSIBLE UNIT LOCATION. |
| | AUDIO / VISUAL UNIT LOCATION. |

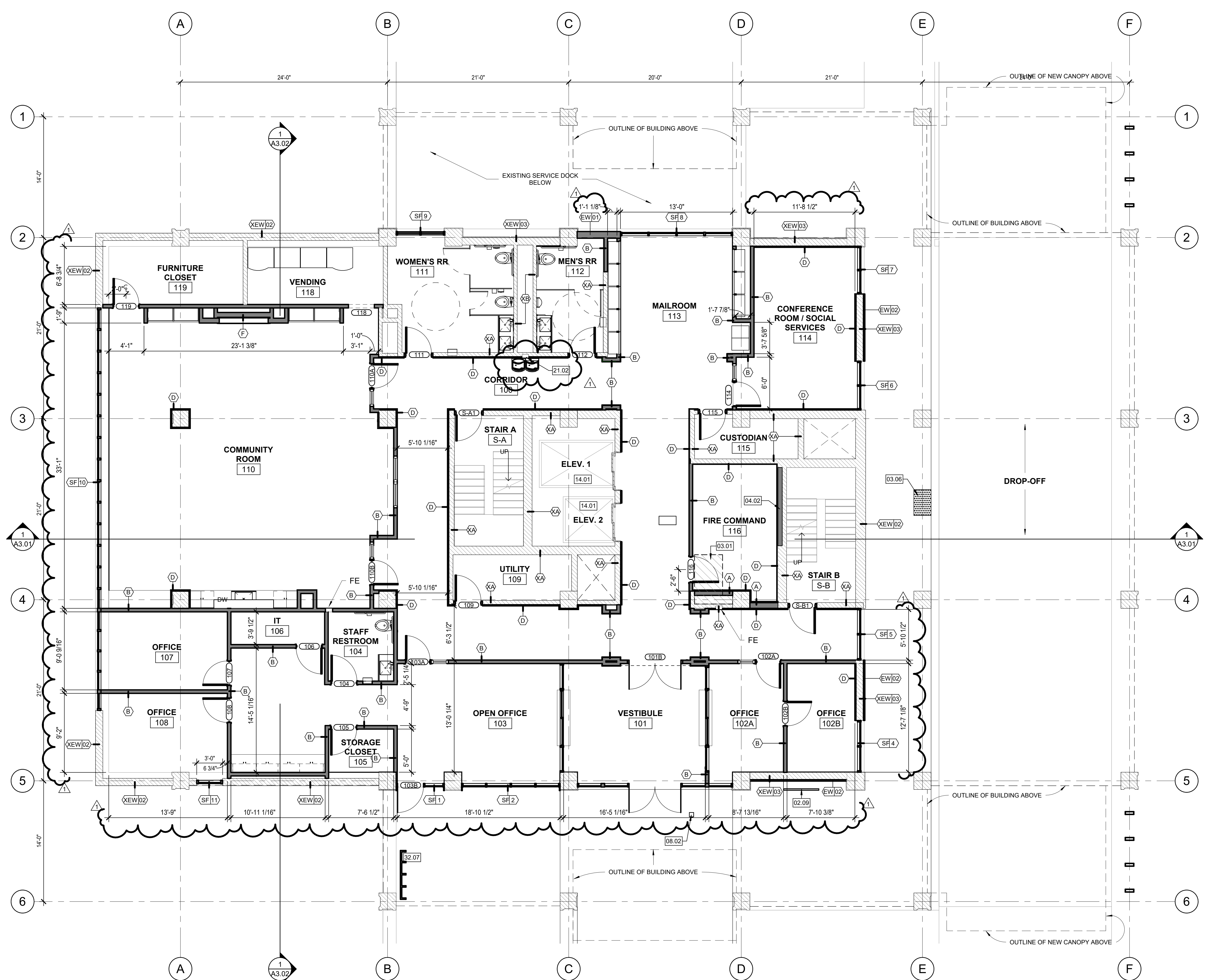
KEYED NOTES SPECIFIC TO THIS SHEET
 REFERENCED BY THE SYMBOL

- TYPICAL UNLESS NOTED OTHERWISE
- 02.09 PROVIDE NEW ULINE 5-LOOP WAVE BIKE RACK # H-2544, BLACK FINISH.
 - 03.01 INFILL EXISTING CONCRETE SLAB WHERE TRASH CHUTE WAS REMOVED AT FIRST AND SECOND FLOOR. REFER TO STRUCTURAL.
 - 03.06 PROVIDE NEW SURFACE MOUNT ADA WARNING STRIP BY ULINE.
 - 04.02 INFILL WALL TO MATCH SURROUNDING CONSTRUCTION AT LOCATION OF PREVIOUS MAILBOXES.
 - 08.02 POLE MOUNTED AUTOMATIC DOOR OPERATOR PUSH PLATE. REFER TO SPECIFICATIONS.
 - 14.01 REMOVE AND REPLACE ALL ELEVATOR CAB FINISHES WITH STANDARD SCHINDLER FIXTURES, U.N.O. CAB WALLS: TORONTO GRAY, CAB FLOORING: LV1-1 (SEE FINISH SCHEDULE), STANDARD CEILING: LED SPOT, HANDRAIL: ROUND END STAINLESS.
 - 32.07 ULINE WAVE BIKE RACK MODEL H-2544.

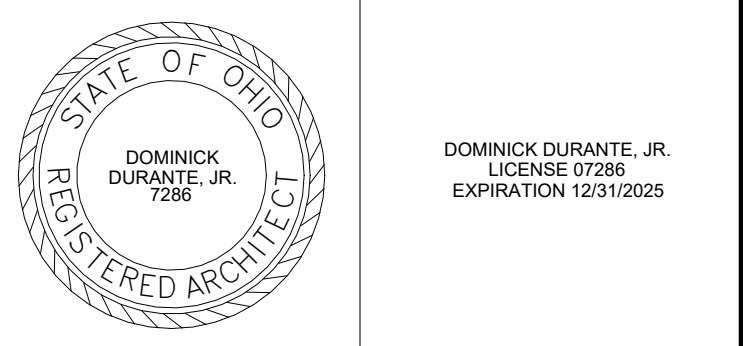
SCOPE OF WORK & GENERAL NOTES - COMMON AREAS

1. REFER TO COVER SHEET G0.01 FOR OVERALL PROJECT GENERAL NOTES AND DEMOLITION GENERAL NOTES.
2. REFER TO A6.00 SHEETS FOR DWELLING UNIT SCOPES OF WORK.
3. THE FOLLOWING SCOPE OF WORK APPLIES TO ALL COMMON AREAS OUTSIDE OF DWELLING UNITS, AND ARE TYPICAL UNLESS NOTED OTHERWISE.

- COMMON AREA SCOPE OF WORK:**
- A. PAINT ALL WALLS & PAINTABLE SURFACES. REFER TO FINISH SCHEDULE.
 - B. PROVIDE NEW FLOORING AND BASE AT ALL COMMON AREAS INCLUDING BUT NOT LIMITED TO CORRIDORS, RESIDENT AMENITIES, AND OFFICES. REFER TO FINISH SCHEDULE. NO NEW FLOORING IN STAIRS OR SERVICES AREAS UNLESS OTHERWISE NOTED.
 - C. PROVIDE NEW LED LIGHT FIXTURES IN ALL COMMON AREAS. REFER TO REFLECTED CEILING PLANS.
 - D. PROVIDE NEW ROOM SIGNAGE W/ BRAILLE AT EACH UNIT ENTRY DOOR, ALL PUBLIC AREAS AND COMMON SPACES AT THE HANDLE SIDE OF EACH DOOR, IF APPLICABLE.
 - E. ALL EXISTING CORRIDOR HANDRAILS ARE TO REMAIN. REPAIR OR RE-SECURE HANDRAILS AS NEEDED.
 - F. PROVIDE CORNER GUARDS AT ALL PUBLIC AREAS / CORRIDORS.
 - G. ALL DOORS, FRAMES AND HARDWARE ARE TO BE REPLACED WITH NEW. REFER TO A7.00 FOR DOOR SCHEDULE AND DETAILS.
 - H. REPAIR ANY ELEMENTS THAT SHOW SIGNS OF WATER DAMAGE.
 - I. ALL ACOUSTIC CEILING TILES AND GRIDS ARE TO BE REPLACED. REFER TO REFLECTED CEILING PLANS.



1 OVERALL GROUND LEVEL PLAN - PROPOSED
 SCALE: 3/16" = 1'-0"



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 1999 Sutter Avenue, Cincinnati, OH 45225

**SCOPE OF WORK - LEVELS 2-15
(CONTINUED)**

- LAUNDRY ROOMS (X12)**
A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
B. STORAGE ROOMS IN THIS AREA ON ODD-NUMBERED FLOORS ARE TO BE CONVERTED TO LAUNDRY ROOMS.
C. NEW LAUNDRY ROOMS ON ODD-NUMBERED FLOORS ARE TO COMPLY WITH ACCESSIBILITY STANDARDS. EXISTING LAUNDRY ROOMS ON EVEN-NUMBERED FLOORS ARE TO BE PROVIDED WITH 2 WASHERS AND 2 DRYERS. REFER TO PLANS.
D. FLOORING TO BE A DALTILE "STEP WISE" SLIP-RESISTANT FLOOR TILE WITH 1/8" GROUT JOINT.

- STAIRWELLS (S-A) (S-B)**
A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
B. PROVIDE NEW METAL CANE DETECTION RAILS AT THE BOTTOM LEVELS OF STAIRWELLS. TYPICAL. REFER TO ACCESSIBILITY STANDARDS SHEET G03.03.
C. STAIRWELL RAILINGS TO BE REPAINTED.

- ELEVATORS:**
A. ELEVATOR MODERNIZATION BEING COMPLETED UNDER SEPARATE CONTRACT.
B. PROVIDE NEW ELEVATOR CAB FINISHES.

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| | 2024.03.21 | BIDDING AND PERMIT |

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN.
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- 03.01 INFILL EXISTING CONCRETE SLAB WHERE TRASH CHUTE WAS REMOVED AT FIRST AND SECOND FLOOR. REFER TO STRUCTURAL.
- 04.01 INFILL CMU TO ENCLOSE PREVIOUS TRASH CHUTE ON FLOORS 3-14. PROVIDE 2 HOUR FIRE RATED ACCESS PANEL ON LEVELS 2 AND 15.
- 04.03 INFILL CMU WALL TO PROVIDE TWO-HOUR FIRE RATING.
- 21.02 REPLACE ALL EXISTING FIRE EXTINGUISHERS.

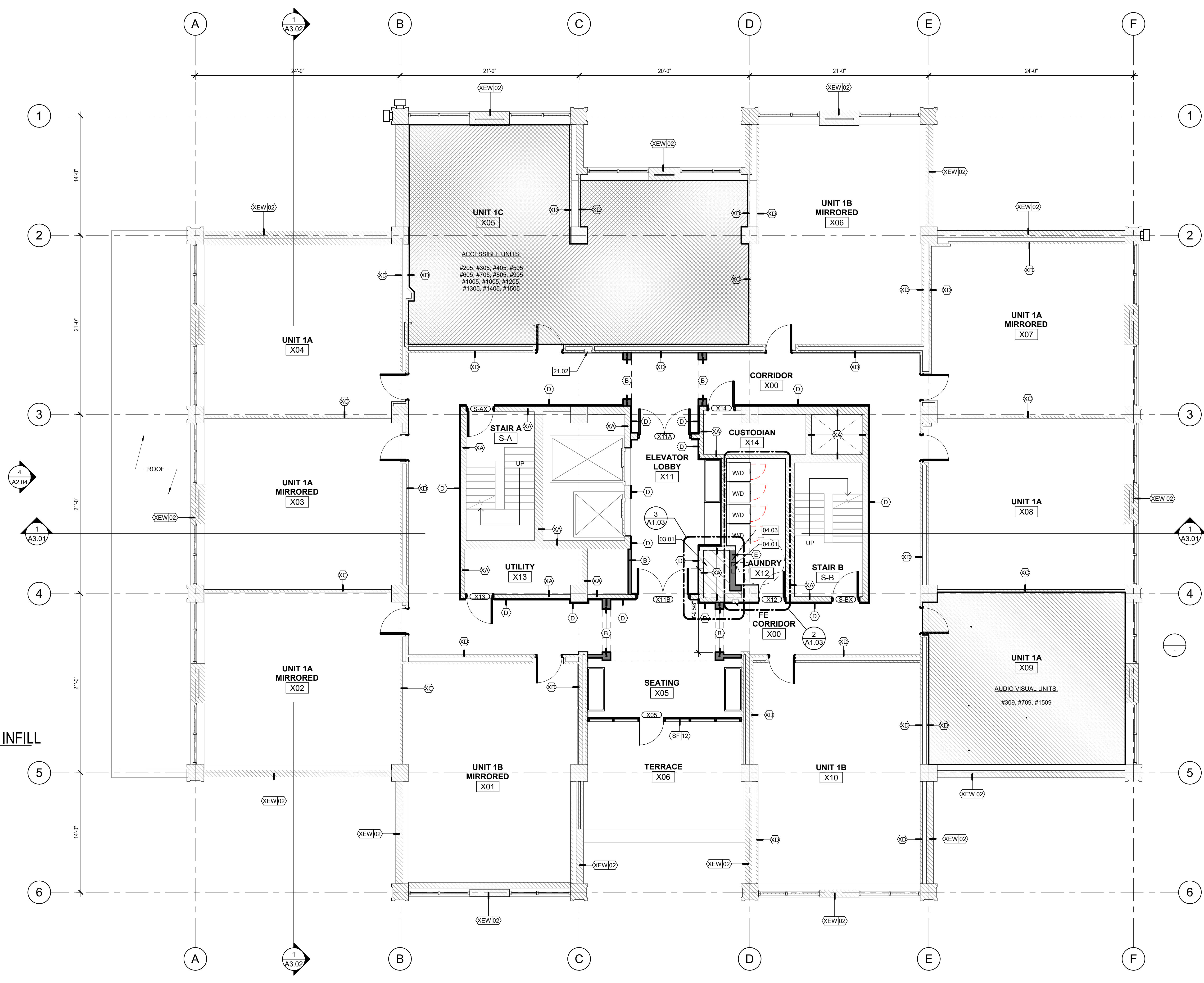
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- 2. REFER TO A6.00 SHEETS FOR DWELLING UNIT SCOPES OF WORK.
- 3. THE FOLLOWING SCOPE OF WORK APPLIES TO ALL COMMON AREAS OUTSIDE OF DWELLING UNITS, AND ARE TYPICAL UNLESS NOTED OTHERWISE.

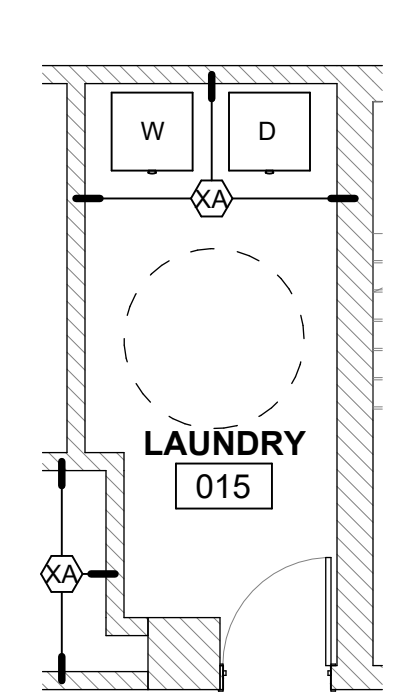
- COMMON AREA SCOPE OF WORK:**
- A. PAINT ALL WALLS & PAINTABLE SURFACES. REFER TO FINISH SCHEDULE.
 - B. PROVIDE NEW FLOORING AND BASE AT ALL COMMON AREAS INCLUDING BUT NOT LIMITED TO CORRIDORS, RESIDENT AMENITIES AND OFFICES. REFER TO FINISH SCHEDULE. NO NEW FLOORING IN STAIRS OR SERVICES AREAS UNLESS OTHERWISE NOTED.
 - C. PROVIDE NEW LED LIGHT FIXTURES IN ALL COMMON AREAS. REFER TO REFLECTED CEILING PLANS.
 - D. PROVIDE NEW ROOM SIGNAGE W/ BRAILLE AT EACH UNIT ENTRY DOOR. ALL PUBLIC AREAS AND COMMON SPACES AT THE HANDLE SIDE OF EACH DOOR IF APPLICABLE.
 - E. ALL EXISTING CORRIDOR HANDRAILS ARE TO REMAIN. REPAIR OR RE-SECURE HANDRAILS AS NEEDED.
 - F. PROVIDE CORNER GUARDS AT ALL PUBLIC AREAS / CORRIDORS.
 - G. ALL DOORS, FRAMES AND HARDWARE ARE TO BE REPLACED WITH NEW. REFER TO A7.00 FOR DOOR SCHEDULE AND DETAILS.
 - H. REPAIR ANY ELEMENTS THAT SHOW SIGNS OF WATER DAMAGE.
 - I. ALL ACOUSTIC CEILING TILES AND GRIDS ARE TO BE REPLACED. REFER TO REFLECTED CEILING PLANS.

SCOPE OF WORK - LEVELS 2 - 15

- CORRIDOR (X00)**
A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
B. FLOORING THROUGHOUT CORRIDOR TO BE SEALED & STAINED CONCRETE. REFER TO FINISH SCHEDULE.
- SEATING AREA (X05)**
A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
B. PROVIDE NEW PERMANENT BENCH SEATING. REFER TO INTERIOR ELEVATIONS.
C. FLOORING THROUGHOUT CORRIDOR TO BE SEALED & STAINED CONCRETE. REFER TO FINISH SCHEDULE.
- ELEVATOR LOBBY (X11)**
A. PROVIDE ALL APPLICABLE ITEMS UNDER "COMMON AREA SCOPE OF WORK."
B. PROVIDE NEW FEATURE WALL WITH PERMANENT BENCH SEATING. REFER TO INTERIOR ELEVATIONS.
C. FLOORING THROUGHOUT CORRIDOR TO BE SEALED & STAINED CONCRETE. REFER TO FINISH SCHEDULE.

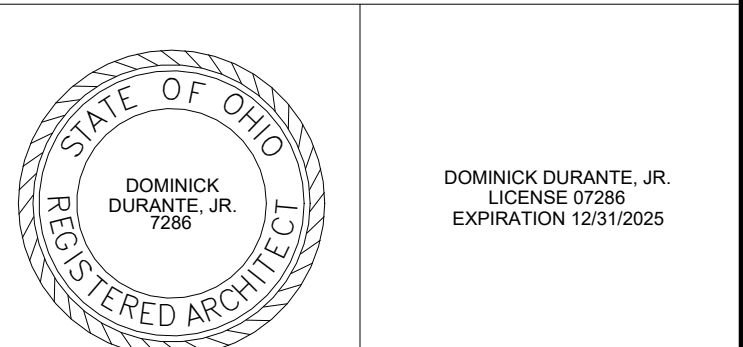


3 TYPICAL FLOOR TRASH CHUTE INFILL
SCALE: 1/8" = 1'-0"



2 ADA LAUNDRY - ODD FLOORS
SCALE: 3/16" = 1'-0"

1 OVERALL 2ND - 15TH LEVEL PLAN - PROPOSED
SCALE: 3/16" = 1'-0"

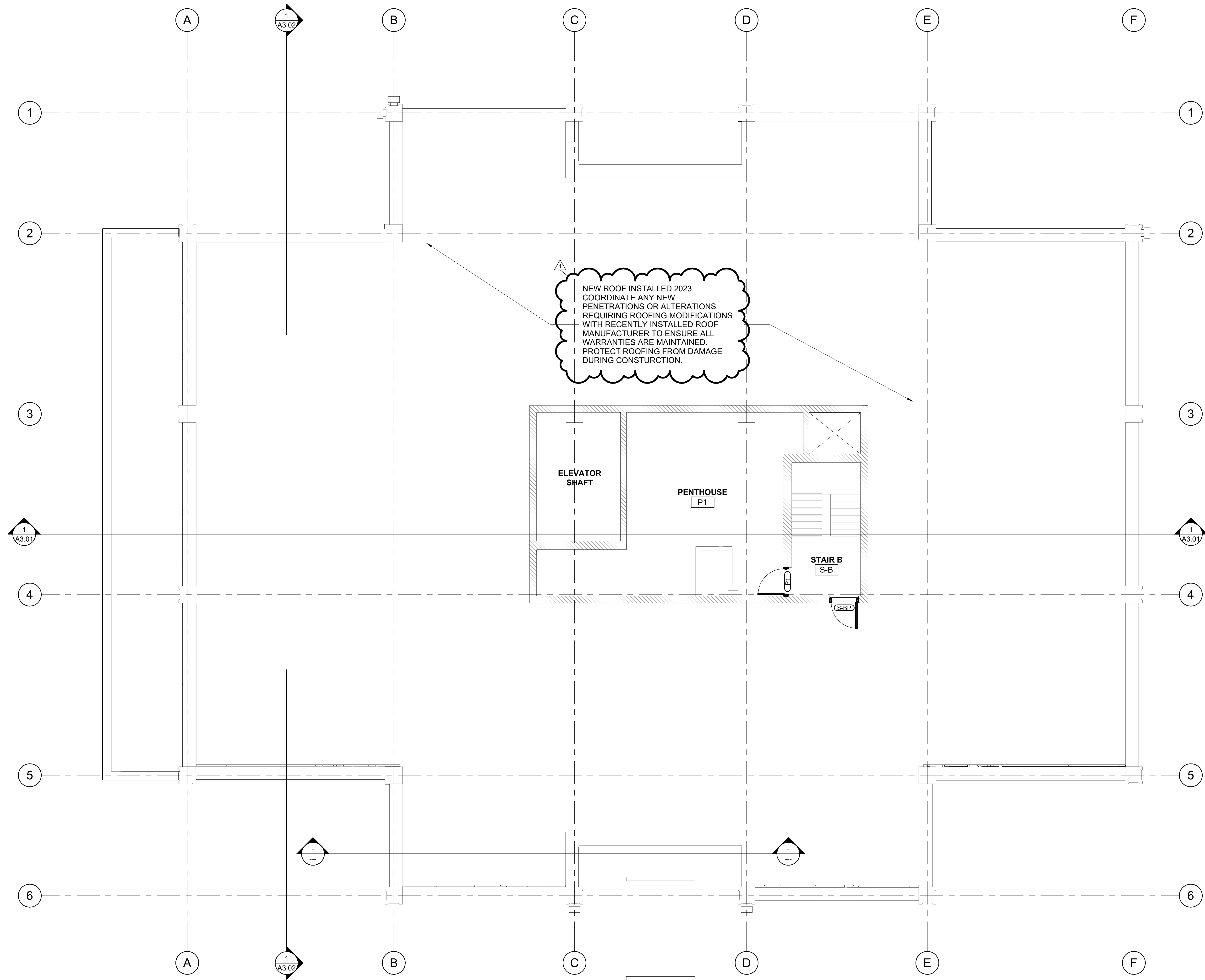


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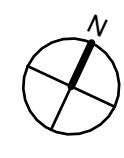
Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47
OVERALL 2ND - 15TH FLOOR PLAN - PROPOSED
A1.03

| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80% - OHFA APP. |
| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



1 PENTHOUSE - CD
A1.04 SCALE: 3/16" = 1'-0"



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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

OVERALL PENT HOUSE
LEVEL PLAN


A1.04

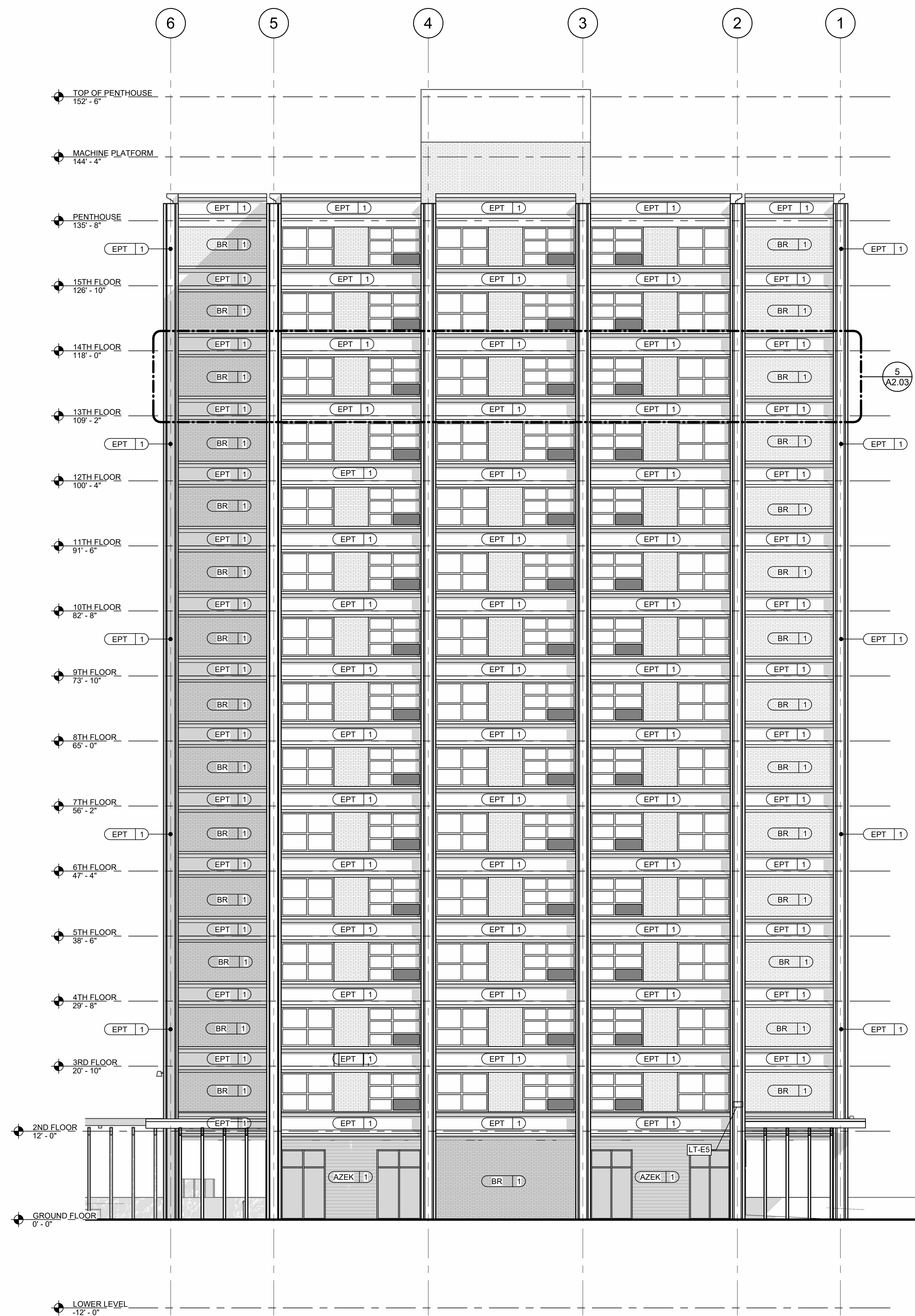
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| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

GENERAL NOTES - EXTERIOR ELEVATIONS

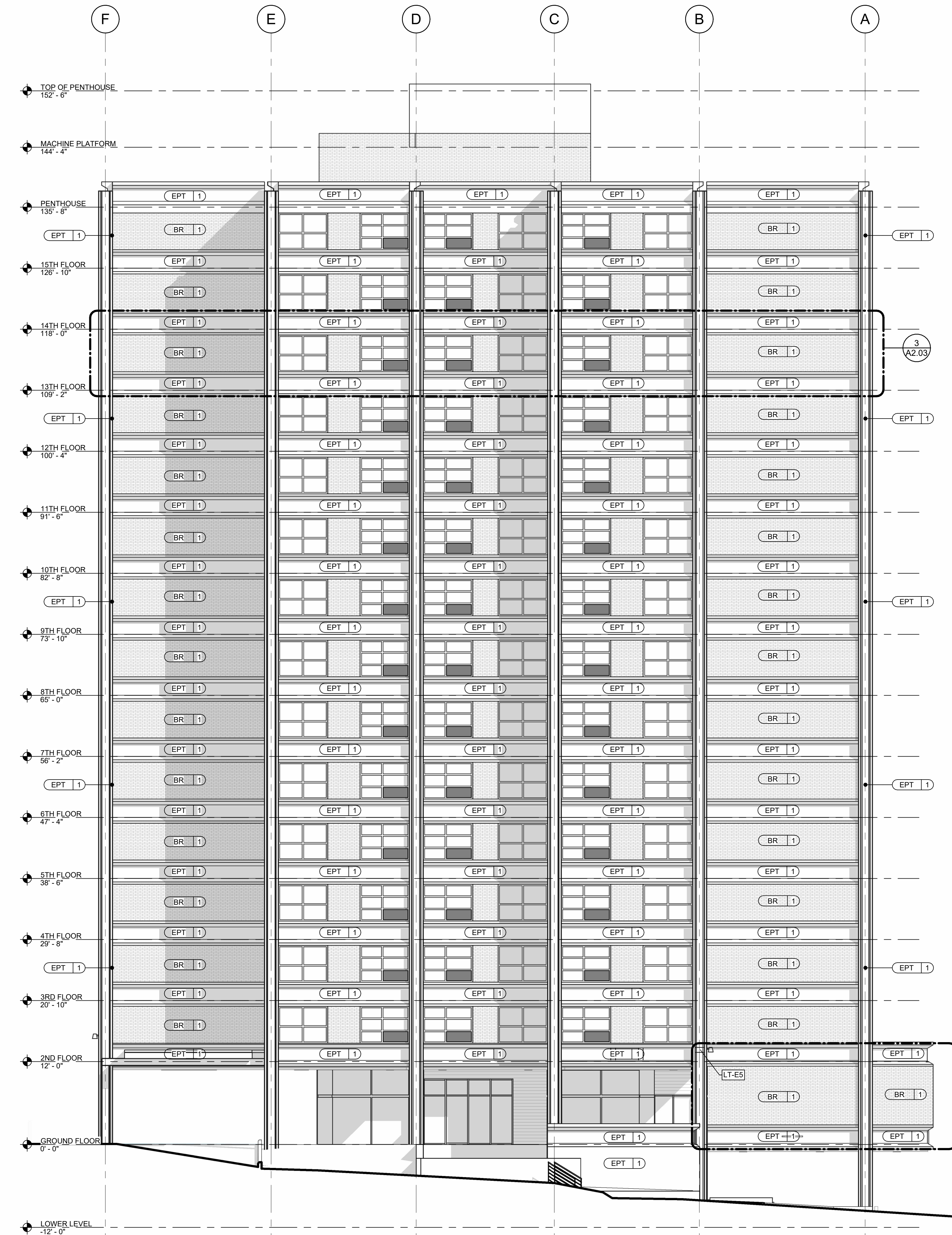
- ALL EXISTING EXTERIOR BUILDING ATTACHED LIGHTING IS TO BE REPLACED ONE FOR ONE WITH NEW LED LIGHTING. ADDITIONAL NEW LIGHTING TO BE PROVIDED AT NEW LOCATIONS INDICATED ON PLANS. REFER TO ELEVATIONS, CEILING PLANS, AND ELECTRICAL DRAWINGS.
- ALL EXTERIOR EXPOSED CONCRETE SURFACES ARE TO BE PAINTED. REFER TO EXTERIOR FINISH SCHEDULE, SHEET A2.03.
- ALL EXTERIOR DOORS ARE TO BE PAINTED. REFER TO DOOR SCHEDULE.
- ALL JOINTS ON BUILDING EXTERIOR ARE TO BE RE-CAULKED OR RE-SEALED.
- EXISTING WINDOWS AT DWELLING UNITS ARE TO REMAIN. STOREFRONT WINDOWS AT GROUND LEVEL AND AT RESIDENTIAL TERRACES ARE TO BE REPLACED. REFER TO STOREFRONT ELEVATIONS AND DETAILS.
- ALL EXTERIOR HEAD FLASHING AND ASSOCIATED SEALANTS ARE TO BE REPLACED, TYPICAL.
- GENERATOR HAS RECENTLY BEEN REPLACED AND WILL REMAIN.
- BUILDING ROOFING HAS RECENTLY BEEN REPLACED AND WILL REMAIN.
- EXISTING EXTERIOR BRICK IS TO REMAIN. ALLOW FOR RE-TUCKPOINTING ON UP TO 20% OF BRICK.
- EXISTING EIFS FACADE PANELS ARE TO BE REMOVED DOWN TO EXISTING CMU AT GROUND FLOOR AT SELECT AREAS AROUND STOREFRONTS. REFER TO ENLARGED ELEVATIONS.

KEYED NOTES SPECIFIC TO THIS SHEET

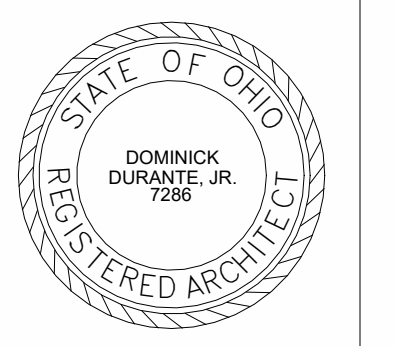
REFERENCED BY THE SYMBOL  TYPICAL UNLESS NOTED OTHERWISE



2 EAST ELEVATION
A2.01 SCALE: 1/8" = 1'-0"



1 NORTH ELEVATION
A2.01 SCALE: 1/8" = 1'-0"



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LDA Project No.23.47
EXTERIOR ELEVATIONS - NORTH AND EAST
A2.01

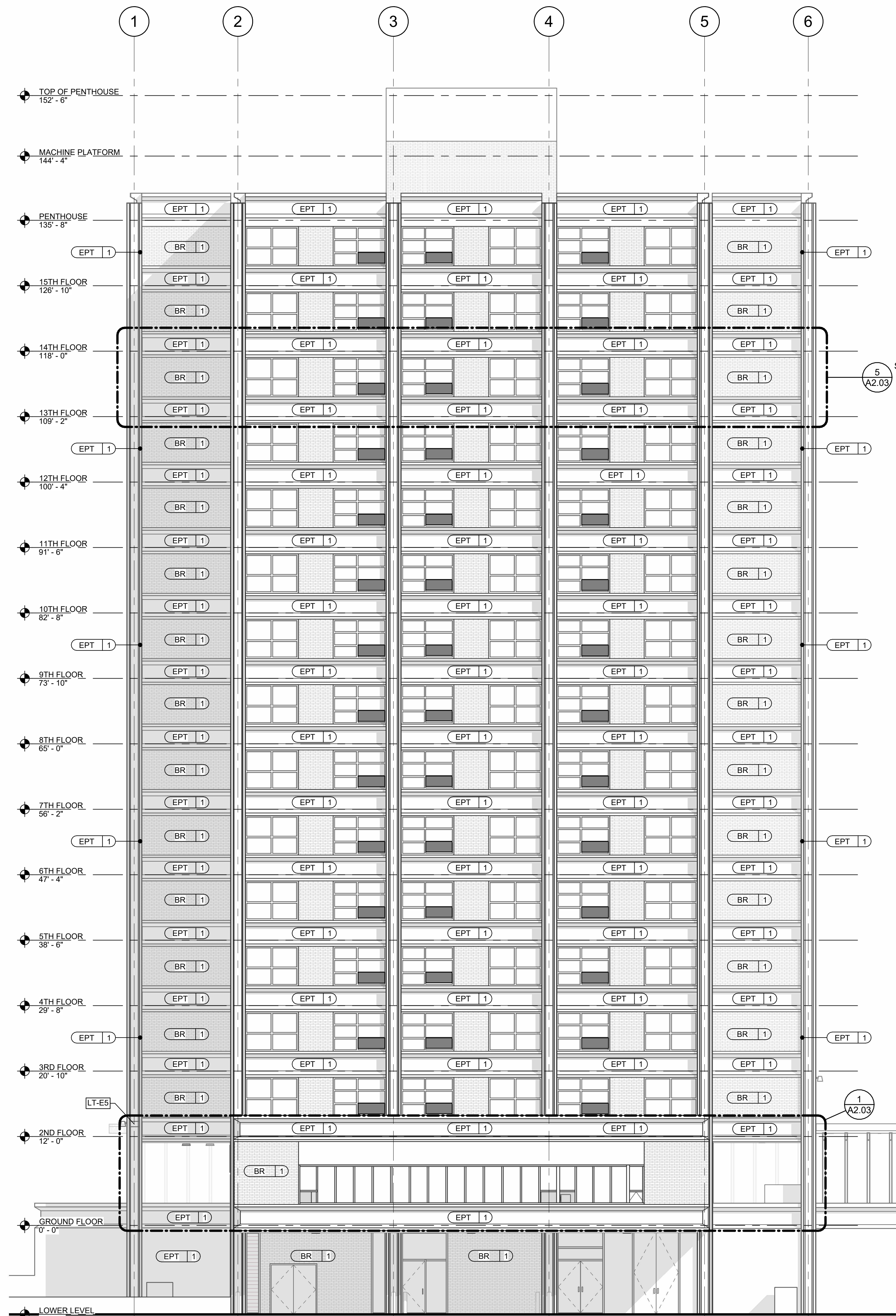
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| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

GENERAL NOTES - EXTERIOR ELEVATIONS

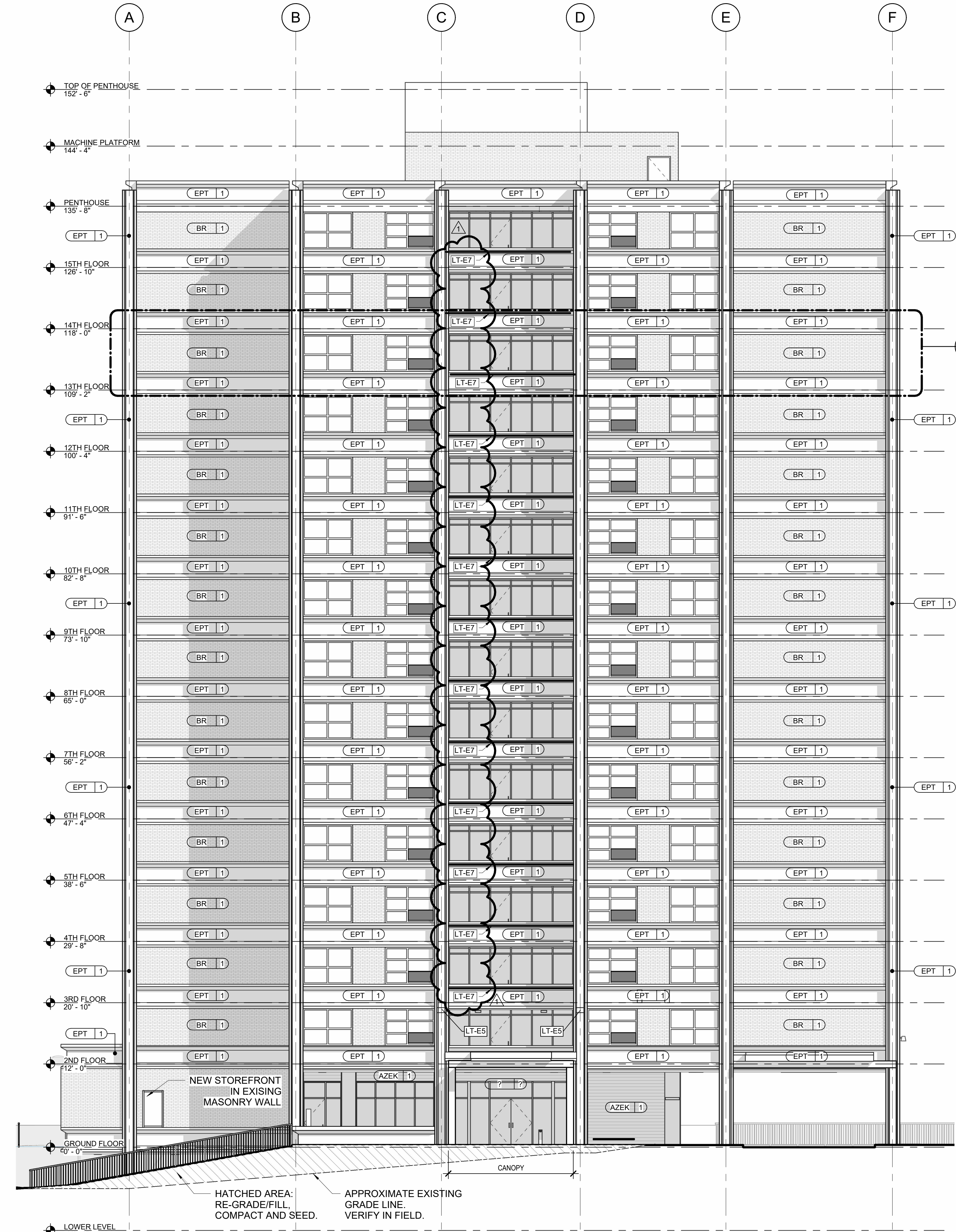
- ALL EXISTING EXTERIOR BUILDING ATTACHED LIGHTING IS TO BE REPLACED ONE FOR ONE WITH NEW LED LIGHTING. ADDITIONAL NEW LIGHTING TO BE PROVIDED AT NEW LOCATIONS INDICATED ON PLANS. REFER TO ELEVATIONS, CEILING PLANS, AND ELECTRICAL DRAWINGS.
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- ALL JOINTS ON BUILDING EXTERIOR ARE TO BE RE-CAULKED OR RE-SEALED.
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- ALL EXTERIOR HEAD FLASHING AND ASSOCIATED SEALANTS ARE TO BE REPLACED, TYPICAL.
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KEYED NOTES SPECIFIC TO THIS SHEET

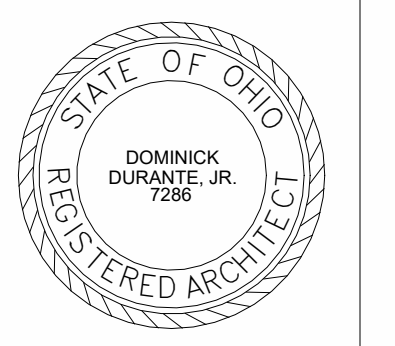
- REFERENCED BY THE SYMBOL
TYPICAL UNLESS NOTED OTHERWISE



2 WEST ELEVATION
A2.02 SCALE: 1/8" = 1'-0"



1 SOUTH ELEVATION
A2.02 SCALE: 1/8" = 1'-0"



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47
EXTERIOR ELEVATIONS - SOUTH AND WEST
A2.02

| EXTERIOR FINISH SCHEDULE | | | | | | | |
|--------------------------|--------|---|--|------------------|------------|-------------------------|--|
| KEY | SYMBOL | # | MATERIAL | MANUFACTURER | STYLE | COLOR | NOTES |
| EPT | | 1 | EXTERIOR PAINT - CONCRETE | SHERWIN WILLIAMS | | SW-9542 "NATURAL WHITE" | |
| BR | | 1 | EXISTING BRICK | | | | TUCKPOINT UP TO 20% OF EXISTING BRICK. EXISTING TO REMAIN. |
| EIFS | | 1 | EXISTING EIFS - EXTERIOR FINISH SYSTEM | | | | |
| AZEK | | 1 | OPEN JOINT CLADDING | AZEK | TIMBERTECH | ENGLISH WALNUT | |

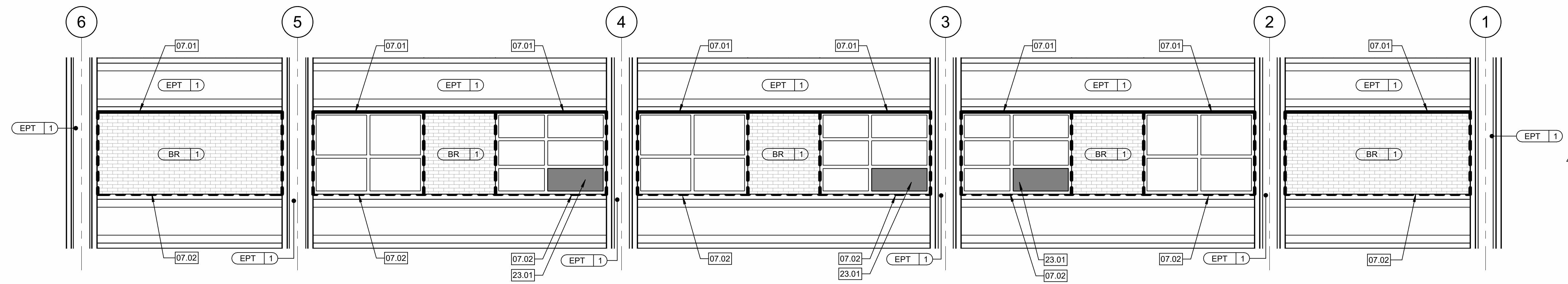
| REV | DATE | DESCRIPTION |
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| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

GENERAL NOTES - EXTERIOR ELEVATIONS

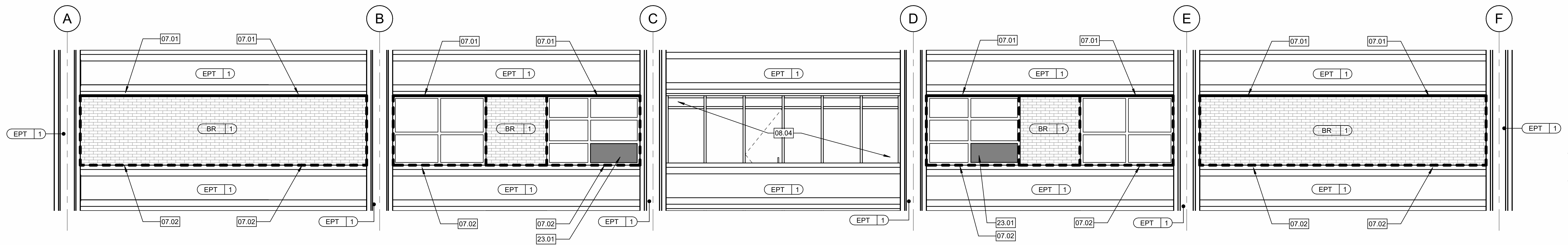
- ALL EXISTING EXTERIOR BUILDING ATTACHED LIGHTING IS TO BE REPLACED ONE FOR ONE WITH NEW LED LIGHTING. ADDITIONAL NEW LIGHTING TO BE PROVIDED AT NEW LOCATIONS INDICATED ON PLANS. REFER TO ELEVATIONS, CEILING PLANS, AND ELECTRICAL DRAWINGS.
- ALL EXTERIOR EXPOSED CONCRETE SURFACES ARE TO BE PAINTED. REFER TO EXTERIOR FINISH SCHEDULE, SHEET A2.03.
- ALL EXTERIOR DOORS ARE TO BE PAINTED. REFER TO DOOR SCHEDULE.
- ALL JOINTS ON BUILDING EXTERIOR ARE TO BE RE-CAULKED OR RE-SEALED.
- EXISTING WINDOWS AT DWELLING UNITS ARE TO REMAIN. STOREFRONT WINDOWS AT GROUND LEVEL AND AT RESIDENTIAL TERRACES ARE TO BE REPLACED. REFER TO STOREFRONT ELEVATIONS AND DETAILS.
- ALL EXTERIOR HEAD FLASHING AND ASSOCIATED SEALANTS ARE TO BE REPLACED, TYPICAL.
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KEYED NOTES SPECIFIC TO THIS SHEET

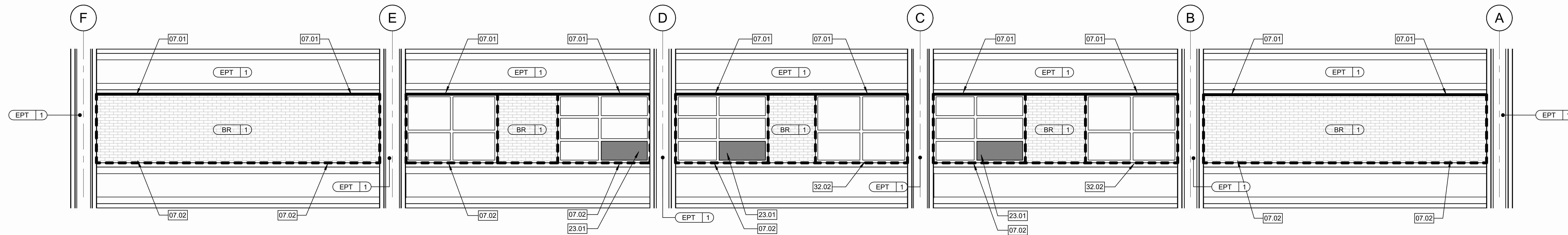
- REFERENCED BY THE SYMBOL
- TYPICAL UNLESS NOTED OTHERWISE
- BOLD LINE INDICATES TYPICAL LOCATION FOR ALUMINUM FLASHING TO BE REPLACED. FLASHING TO BE PAINTED TO MATCH NEW CONCRETE PAINT.
 - BOLD-DASHED LINE INDICATES TYPICAL LOCATION OF BUILDING JOINTS WHICH ARE TO BE RE-CAULKED.
 - PROVIDE NEW PRE-FINISHED EXTERIOR ALUMINUM STOREFRONT SYSTEM.
 - HATCHED AREA INDICATES LOCATION OF APARTMENT HVAC UNIT TO BE REPLACED. REFER TO MECHANICAL DRAWINGS.
 - REMOVED.



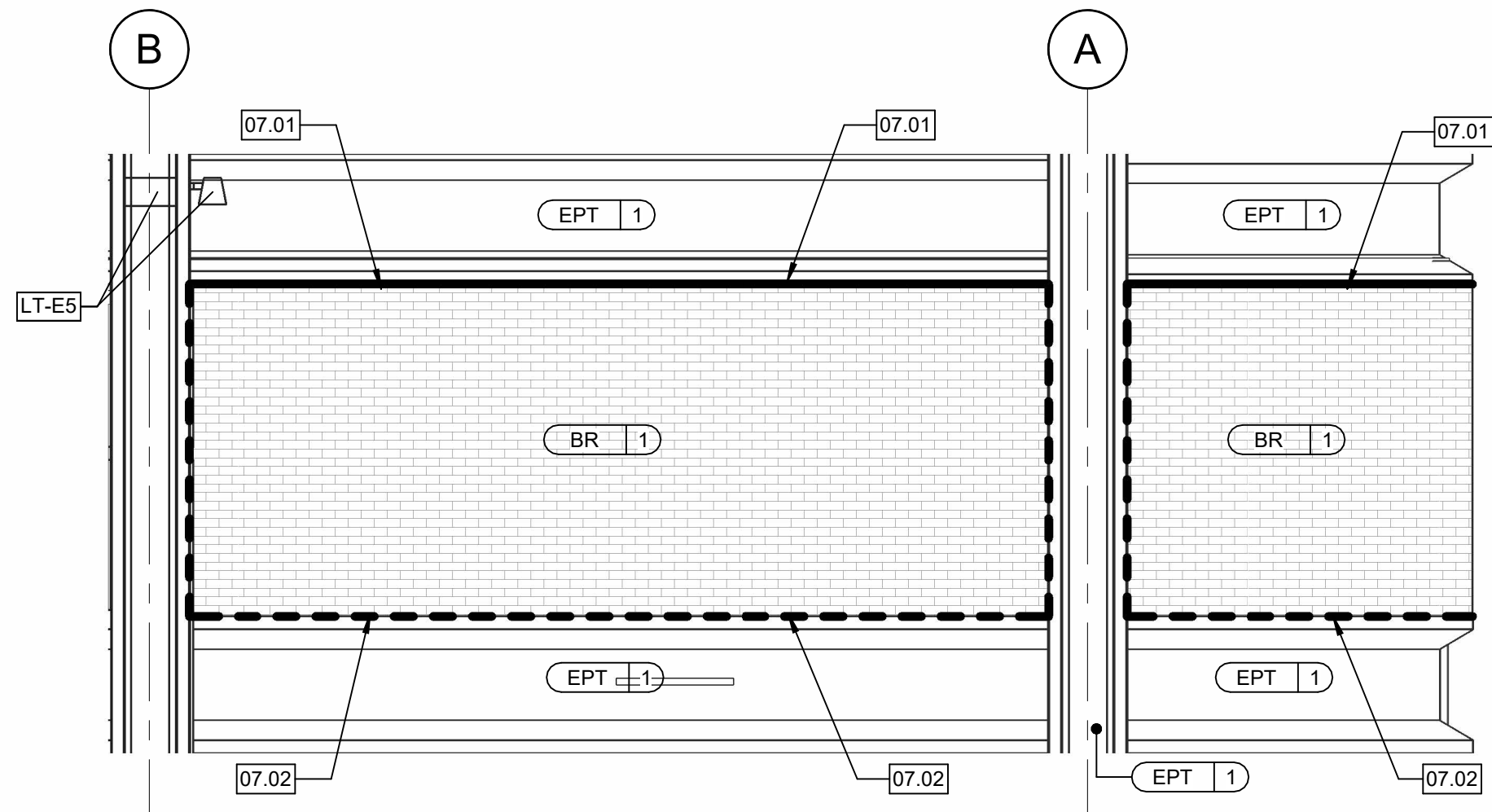
5 ENLARGED EAST / WEST ELEVATION - TYPICAL FLASHING AND CAULKING LOCATIONS
A2.03 SCALE: 1/4" = 1'-0"



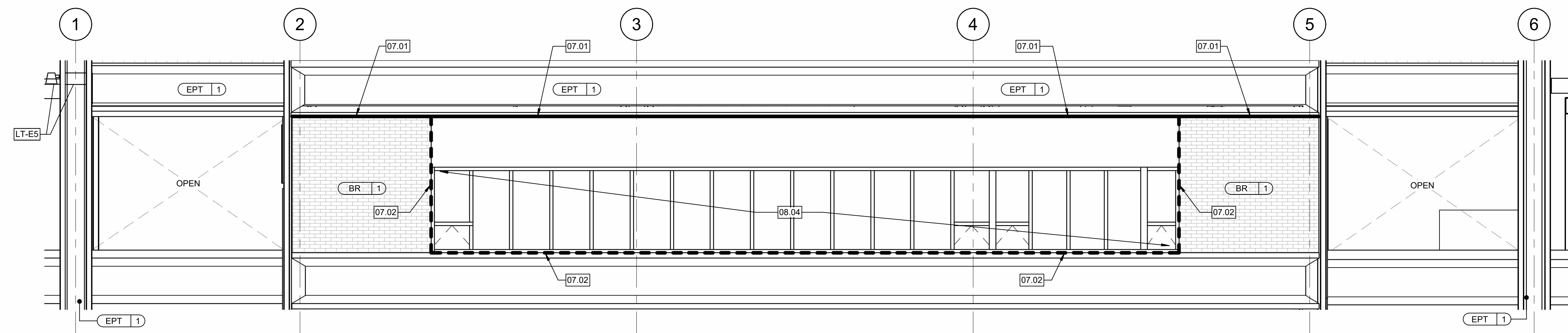
4 ENLARGED SOUTH ELEVATION - TYPICAL FLASHING AND CAULKING LOCATIONS
A2.03 SCALE: 1/4" = 1'-0"



3 ENLARGED NORTH ELEVATION - TYPICAL FLASHING AND CAULKING LOCATIONS
A2.03 SCALE: 1/4" = 1'-0"



2 NORTH/SOUTH ELEVATION - ENLARGED COMMUNITY ROOM
A2.03 SCALE: 1/4" = 1'-0"



1 ENLARGED COMMUNITY ROOM ELEVATION - FLASHING AND CAULKING LOCATIONS
A2.03 SCALE: 1/4" = 1'-0"




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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

| REV | DATE | DESCRIPTION |
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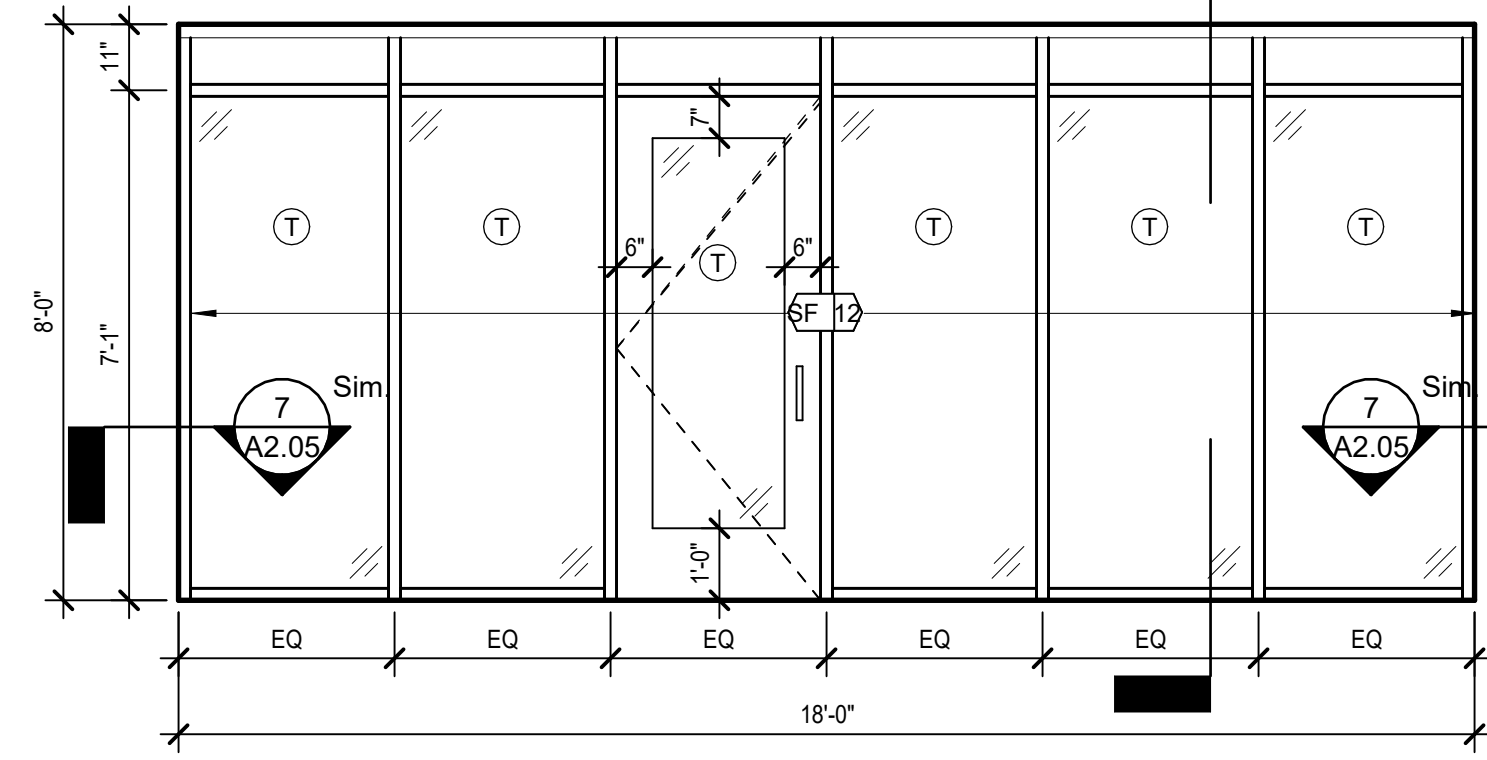
KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL 
TYPICAL UNLESS NOTED OTHERWISE

08.02 POLE MOUNTED AUTOMATIC DOOR OPERATOR
PUSH PLATE. REFER TO SPECIFICATIONS.

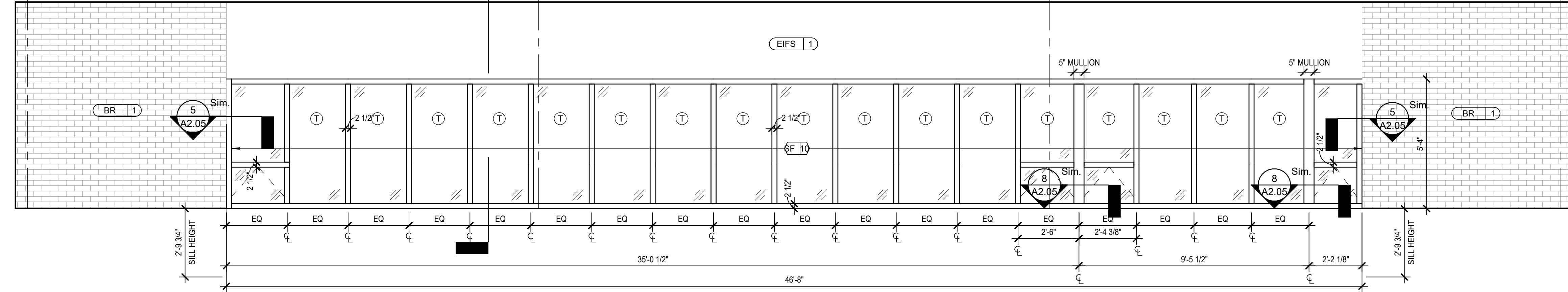
GENERAL NOTES - STOREFRONTS

- DIMENSIONS SHOWN FOR STOREFRONT ELEVATIONS ARE APPROXIMATE. ALL NEW STOREFRONT OPENINGS SHOULD BE ROUGHED IN AND FIELD MEASURED BEFORE ORDERING OF NEW STOREFRONTS.
- ALL EXISTING CONSTRUCTION SHOWN IN STOREFRONT DETAILS ARE BASED ON ORIGINAL BUILDING DRAWINGS. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AT NEW STOREFRONTS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- EXISTING EIFS FACADE PANELS ARE TO BE REMOVED DOWN TO EXISTING CMU AT GROUND FLOOR. AT SELECT AREAS AROUND STOREFRONTS, REFER TO ENLARGED ELEVATIONS & DETAILS.

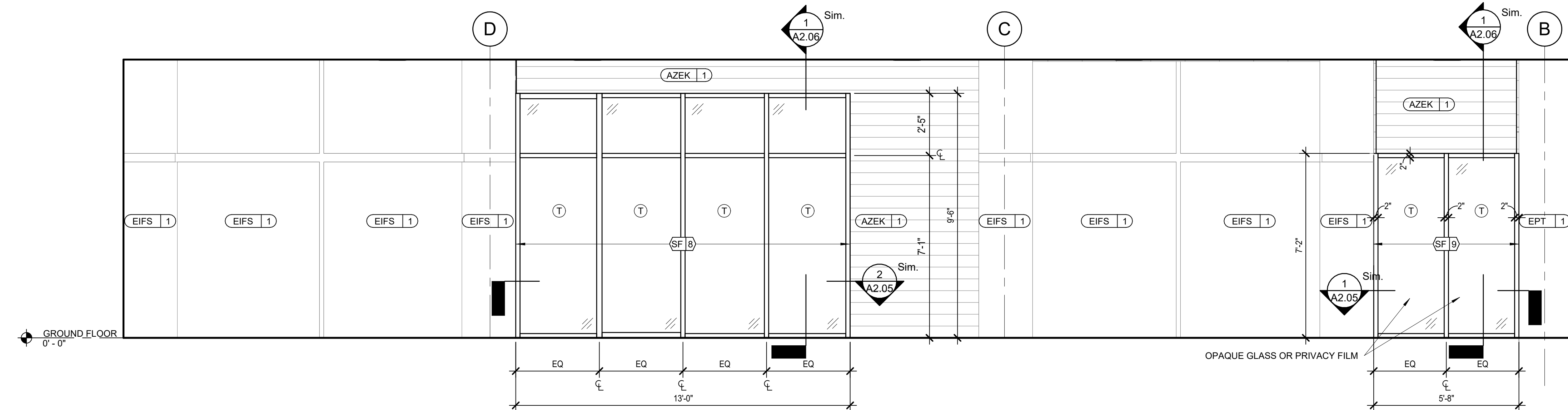
 TEMPERED GLASS



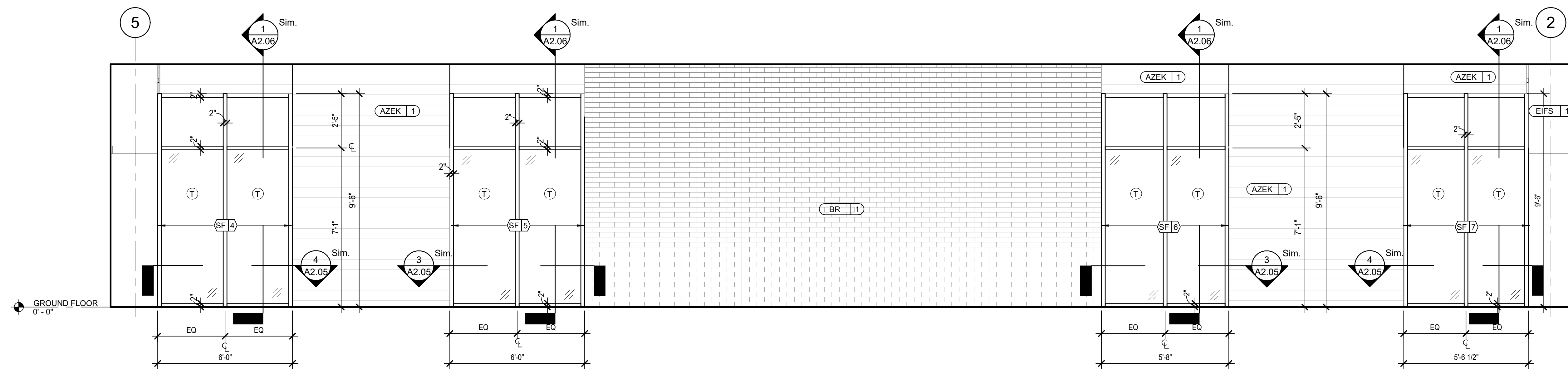
5 ENLARGED ELEVATION SOUTH - TYP. FLOOR STOREFRONT
A2.04 SCALE: 3/8" = 1'-0"



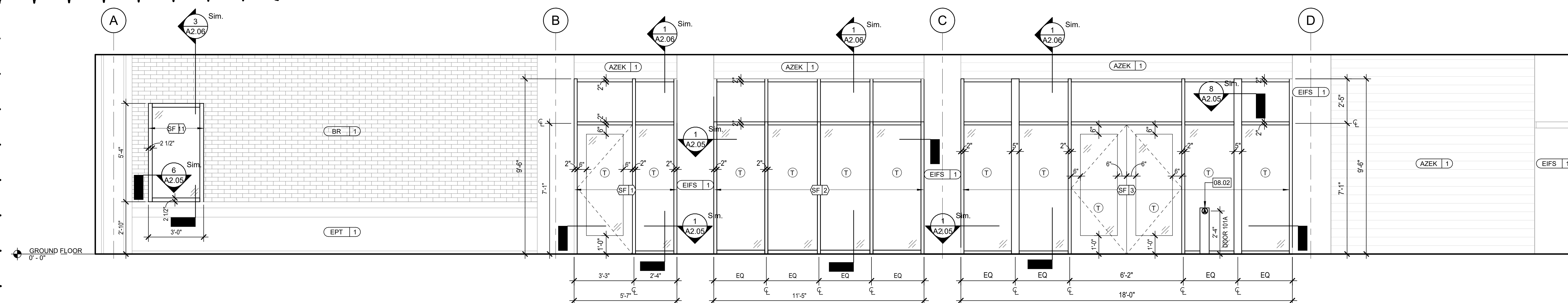
4 ENLARGED ELEVATION WEST - COMMUNITY ROOM STOREFRONT
A2.04 SCALE: 3/8" = 1'-0"



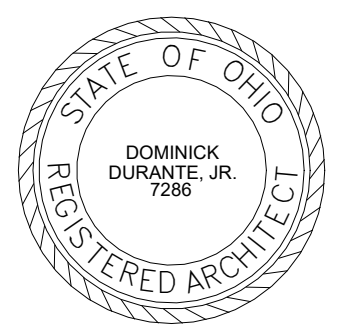
3 ENLARGED ELEVATION NORTH - GROUND FLOOR STOREFRONT
A2.04 SCALE: 3/8" = 1'-0"



2 ENLARGED ELEVATION EAST - GROUND FLOOR STOREFRONT
A2.04 SCALE: 3/8" = 1'-0"



1 ENLARGED ELEVATION SOUTH - GROUND FLOOR STOREFRONT
A2.04 SCALE: 3/8" = 1'-0"



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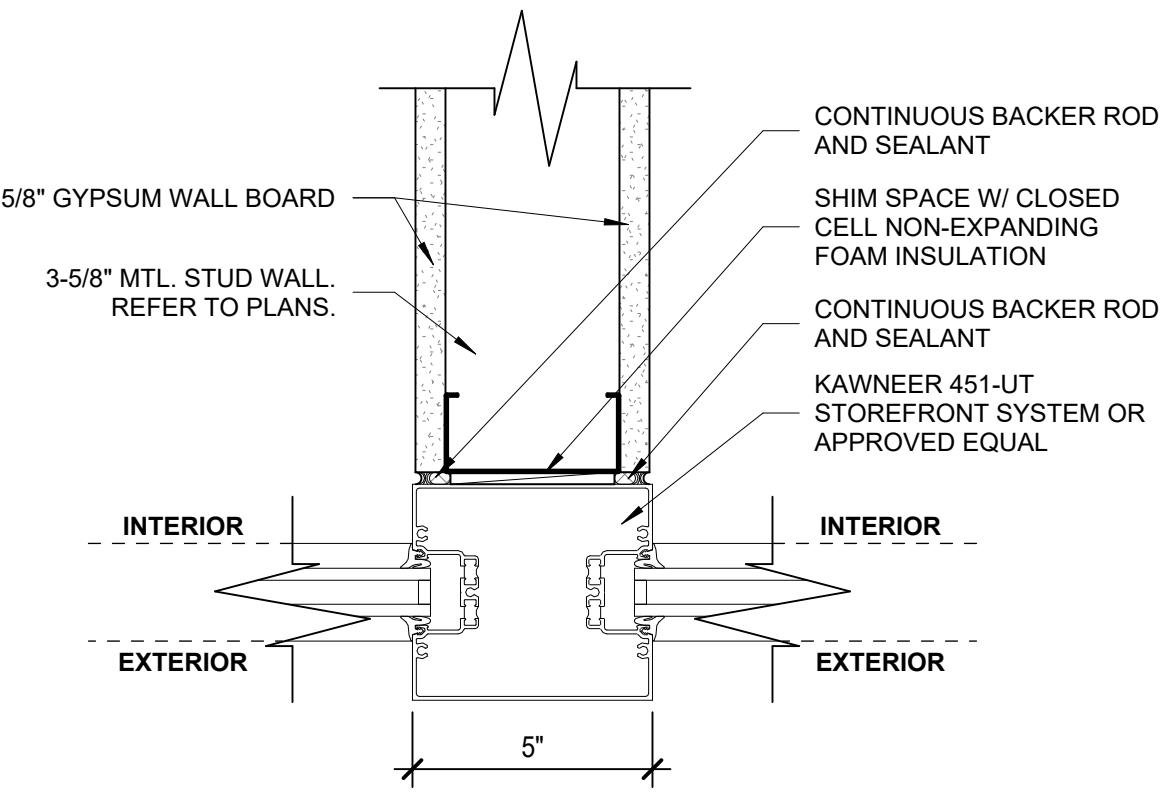
Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

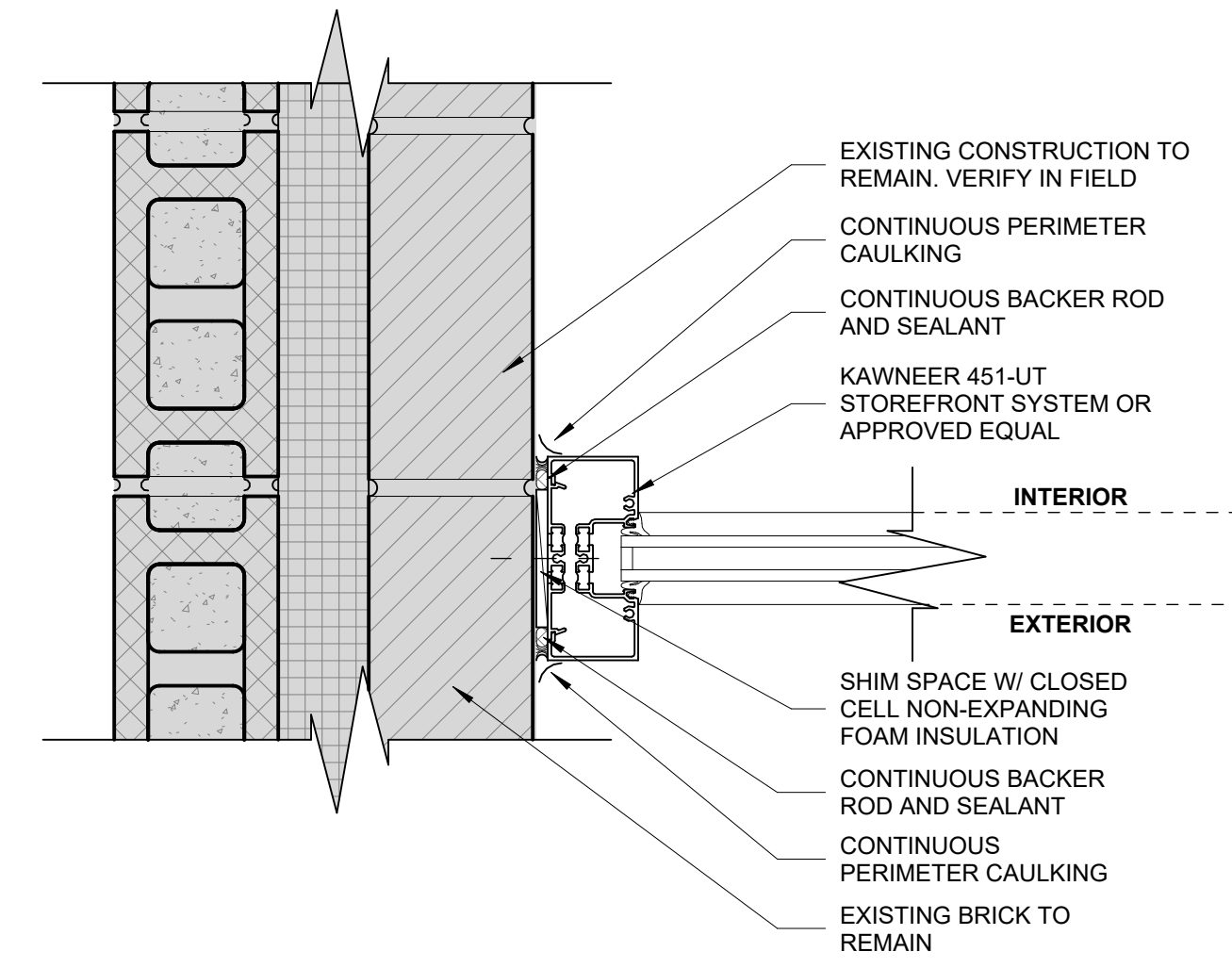
ENLARGED EXTERIOR ELEVATIONS - STOREFRONTS

A2.04

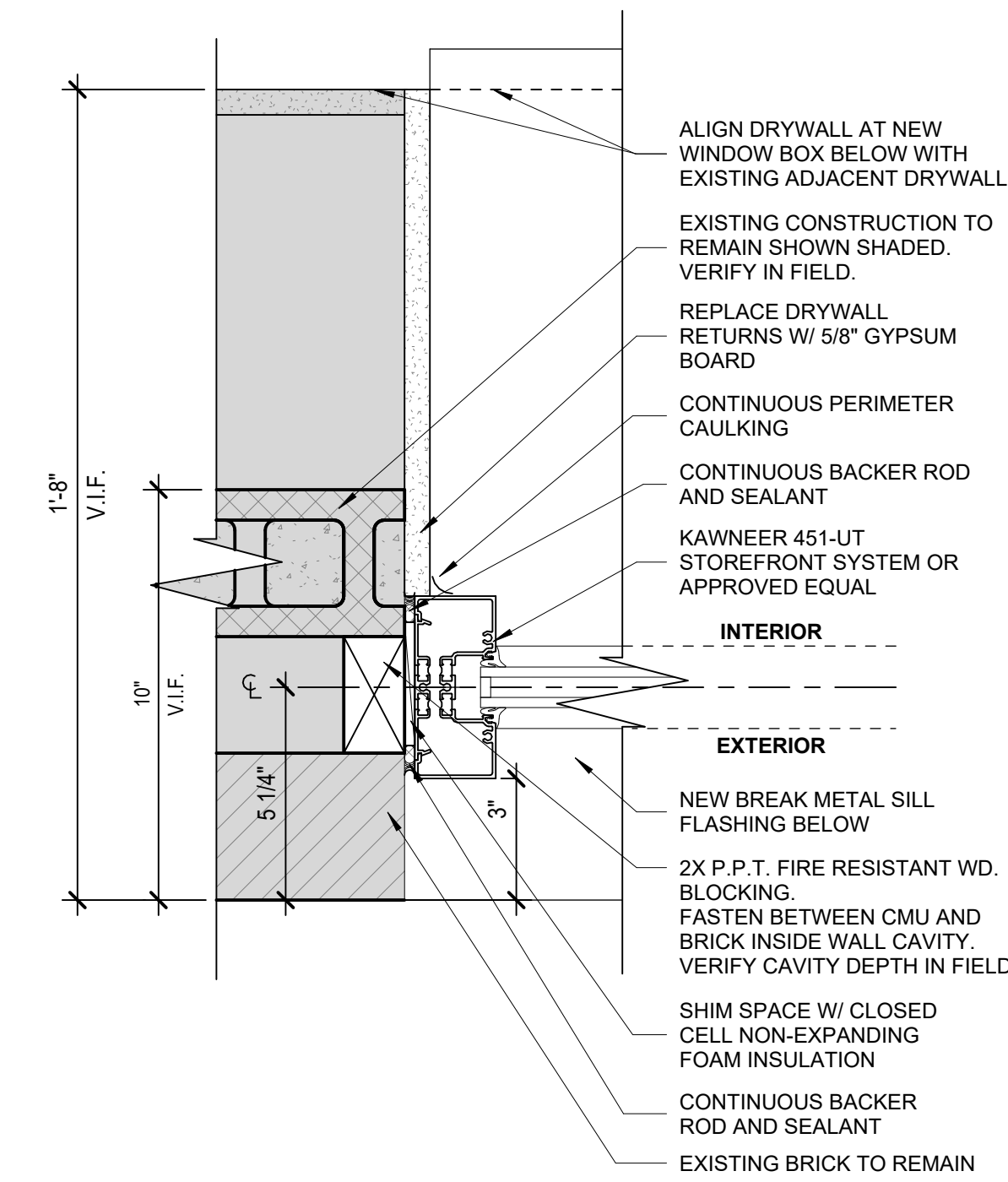
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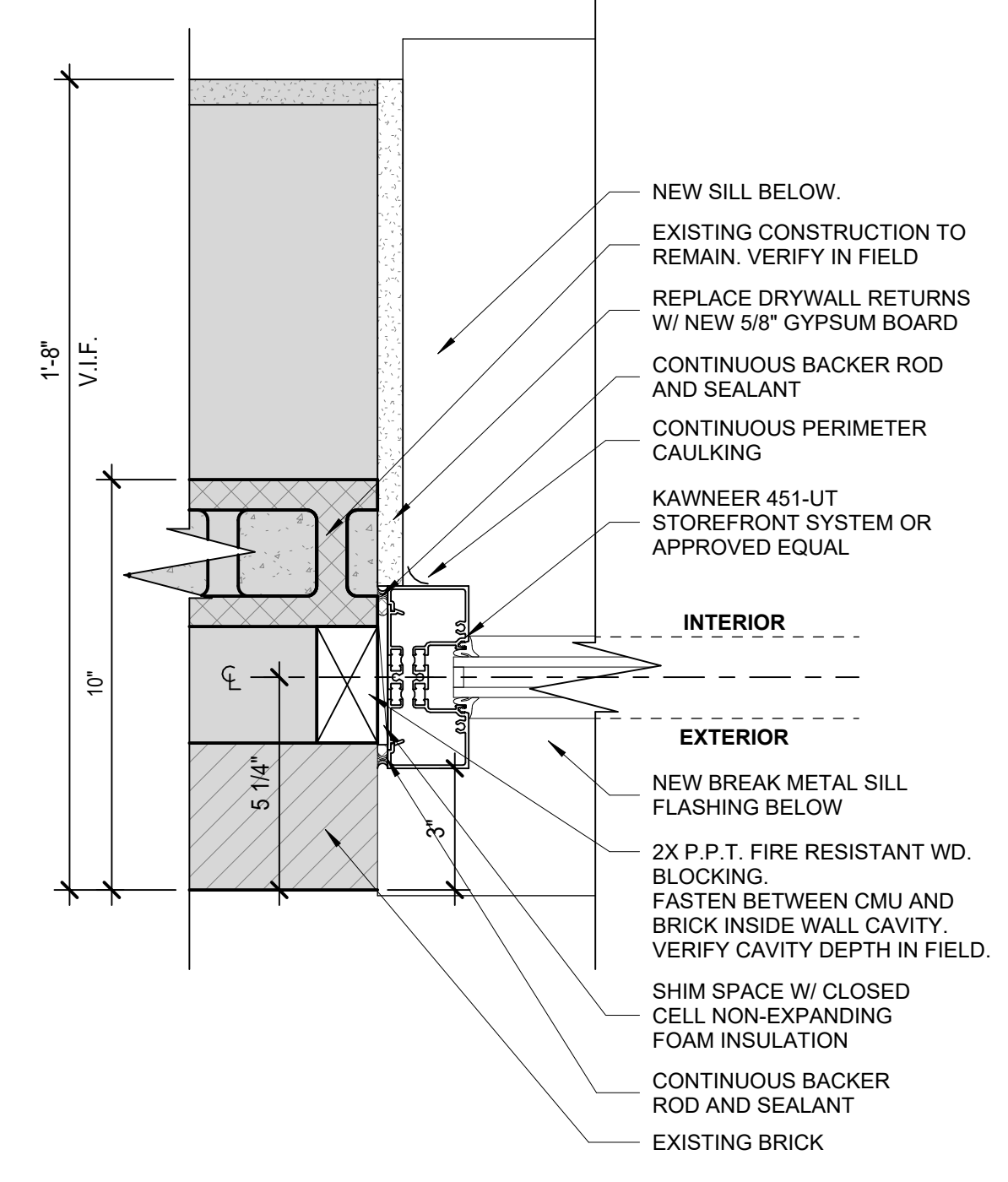
8 TYP. 5" VERTICAL MULLION DETAIL
A2.05 SCALE: 3" = 1'-0"



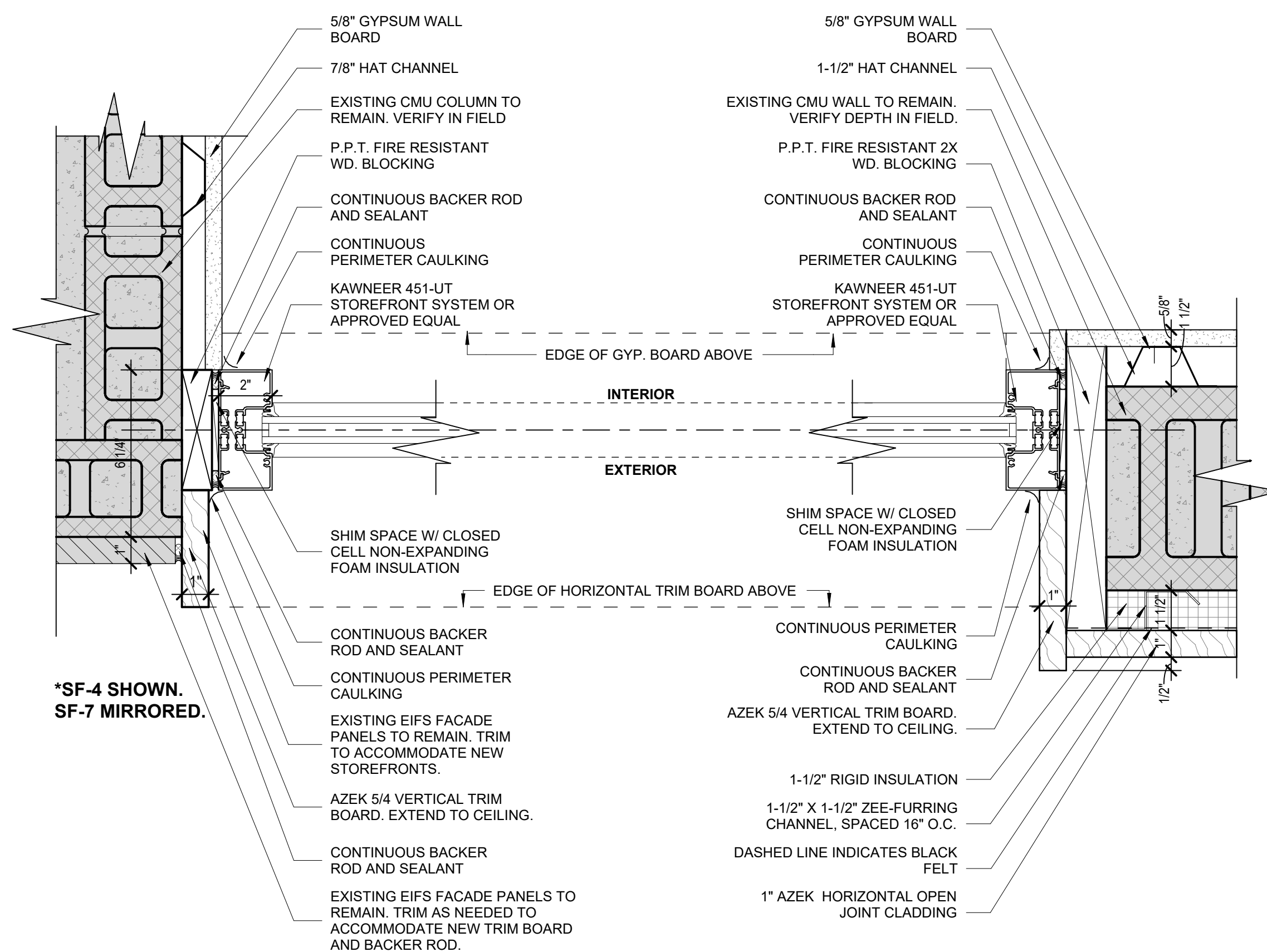
7 SF-12 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



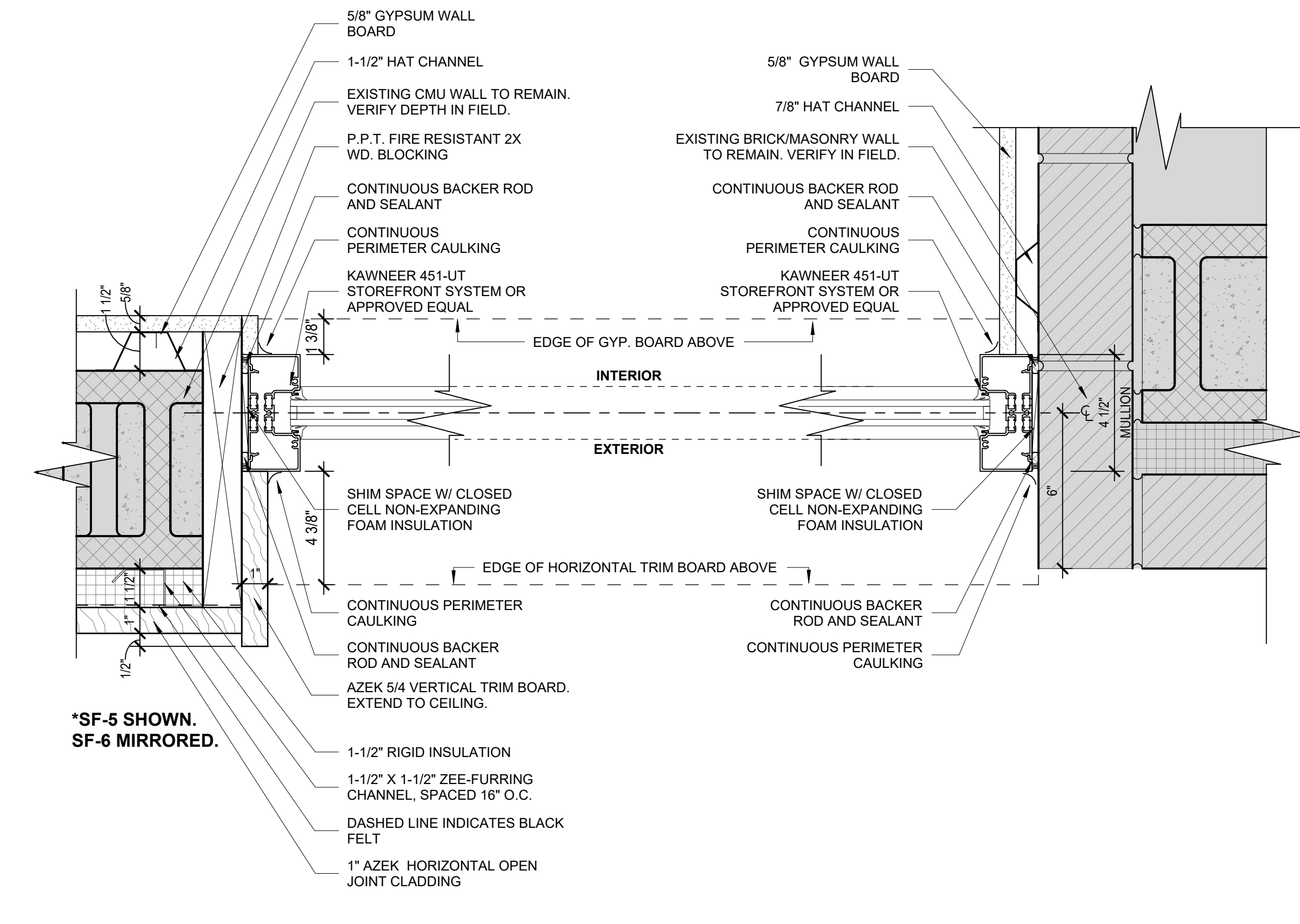
6 SF-11 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



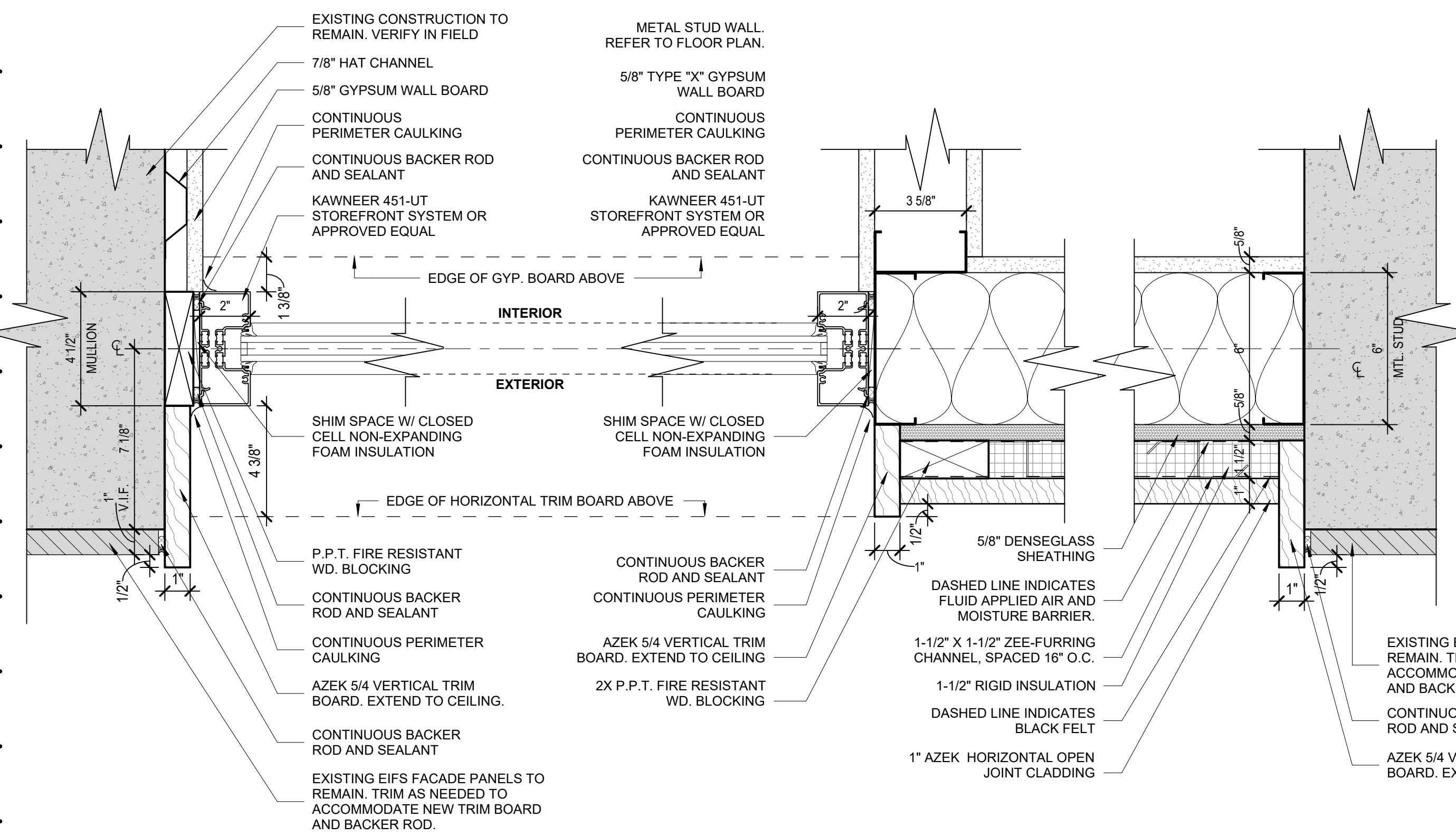
5 SF-10 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



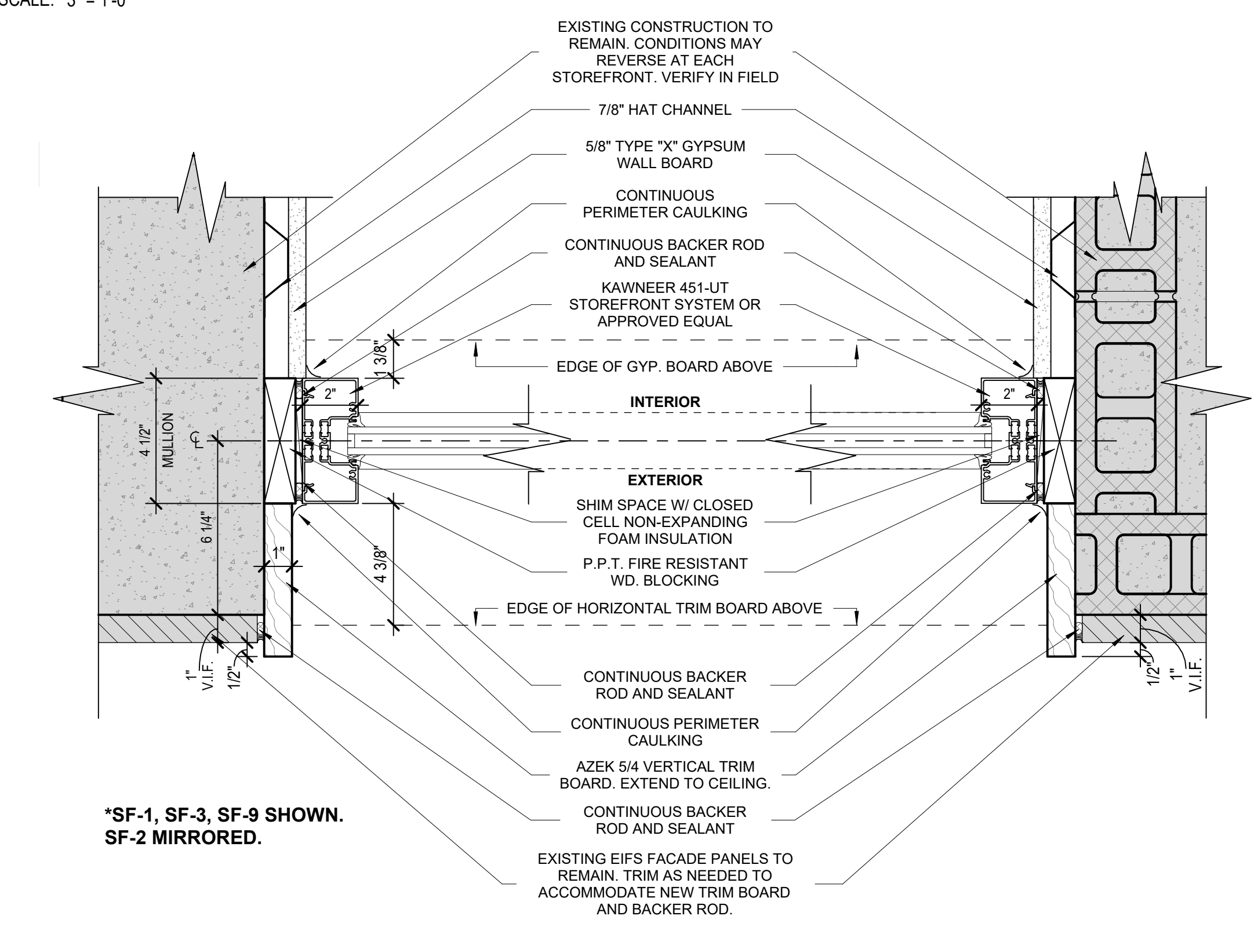
4 SF-4, SF-7 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



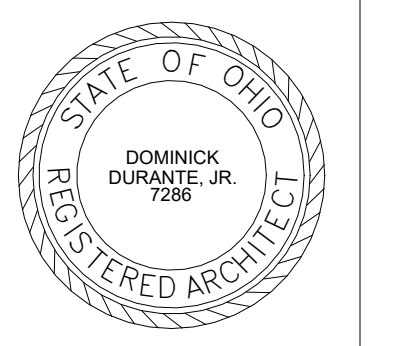
3 SF-5, SF-6 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



2 SF-8 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



1 SF-1, SF-2, SF-3, SF-9 STOREFRONT JAMB DETAILS
A2.05 SCALE: 3" = 1'-0"



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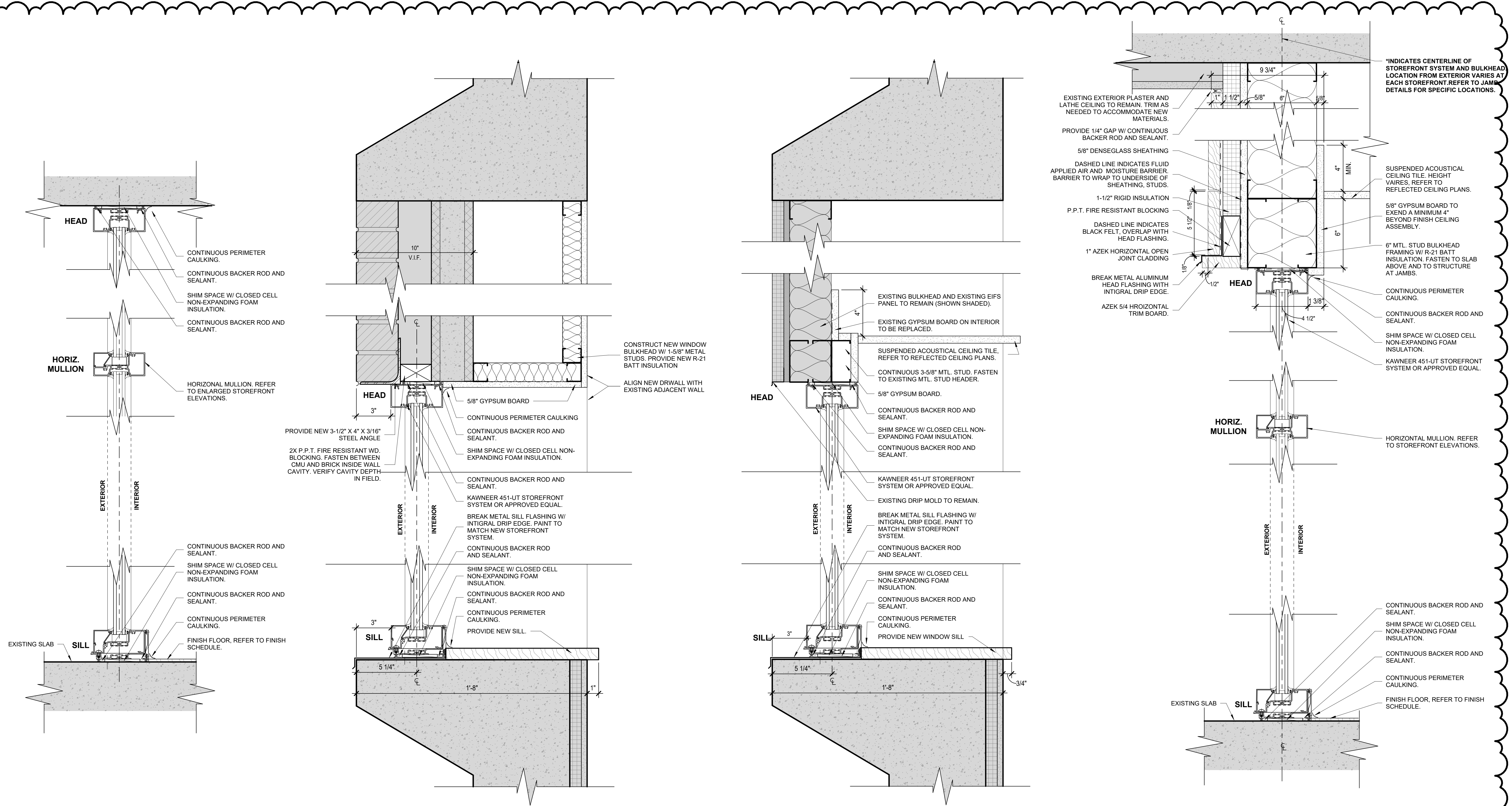
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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

STOREFRONT JAMB DETAILS

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|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

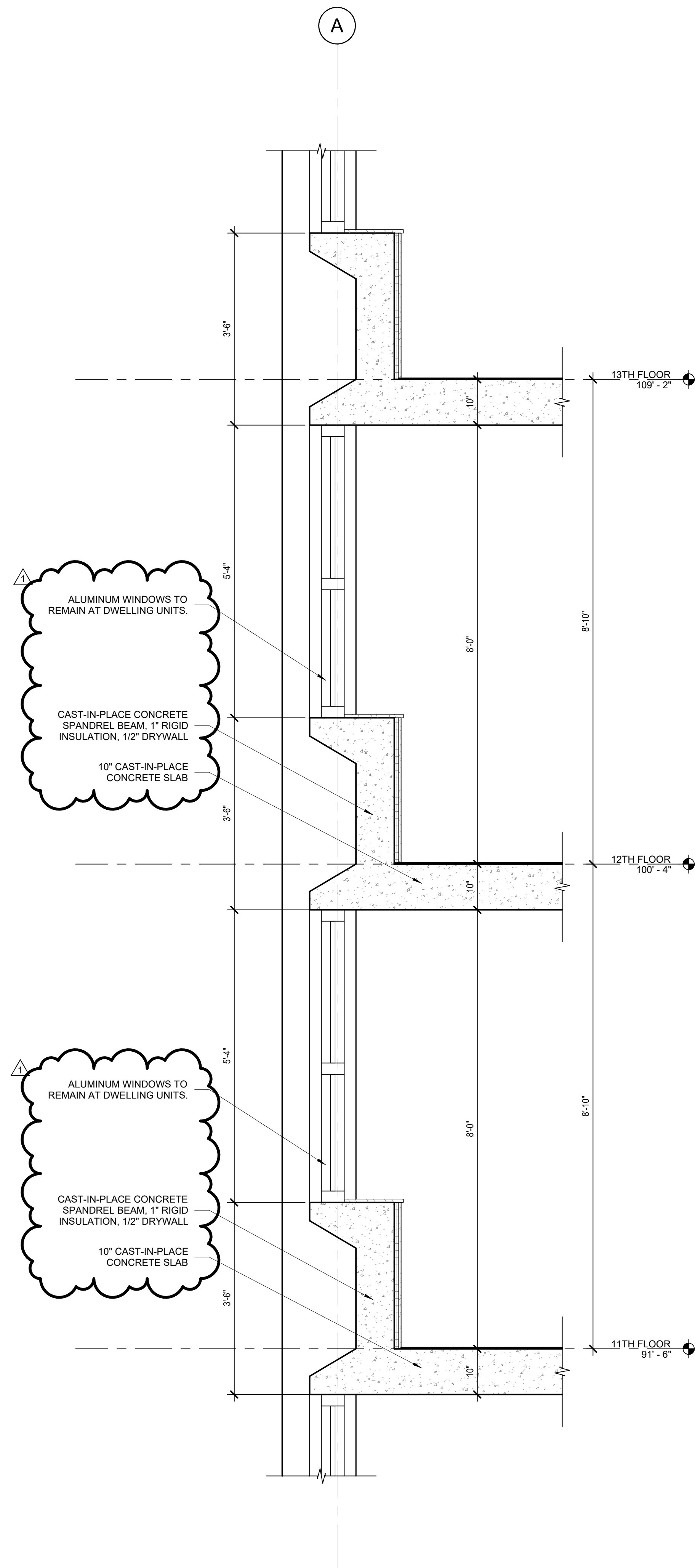


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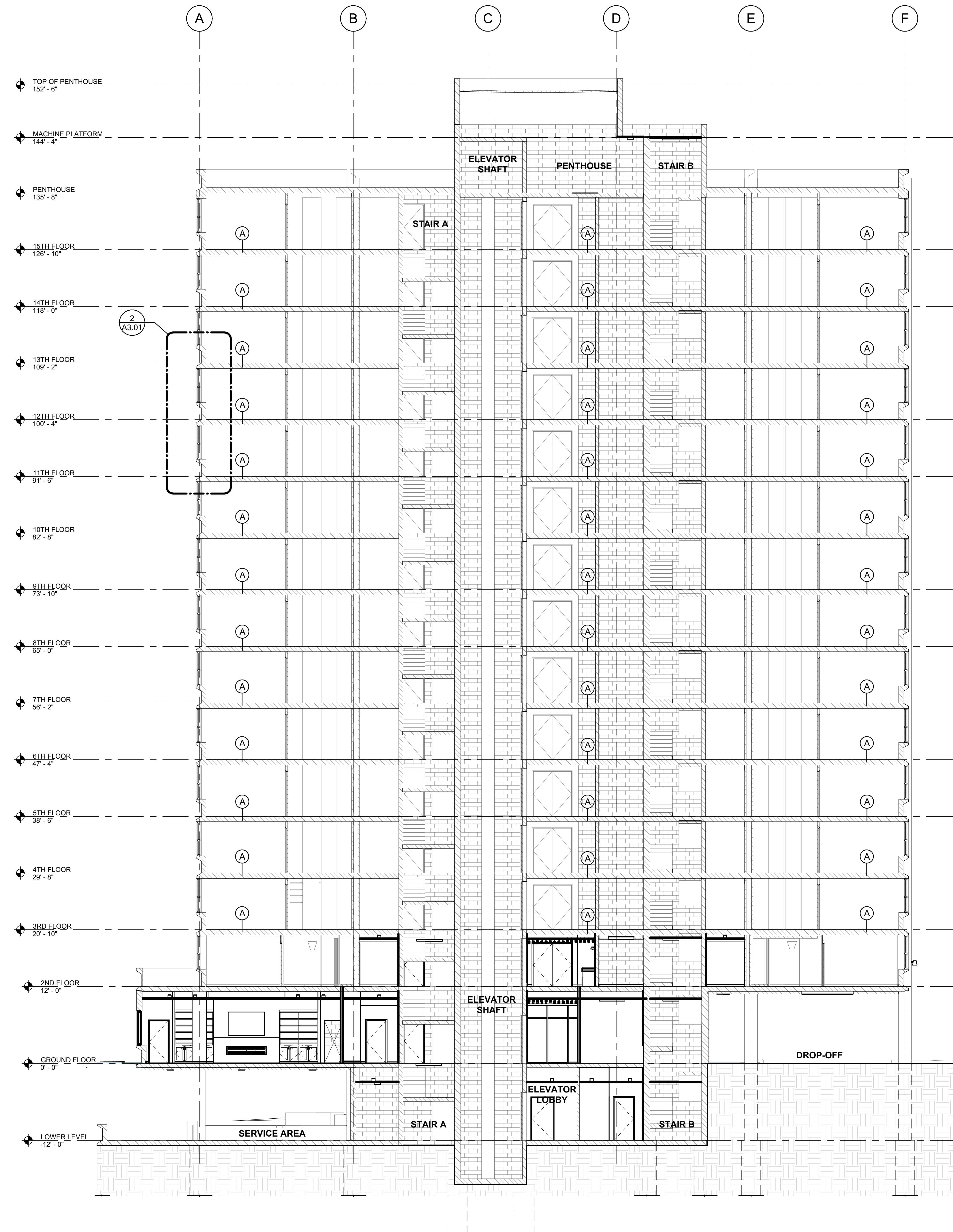
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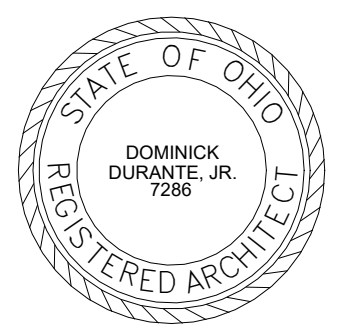
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| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



2
A3.01 TYPICAL WALL SECTION - SPANDREL BEAM & WINDOWS
SCALE: 3/4" = 1'-0"



1
A3.01 BUILDING SECTION - EAST TO WEST
SCALE: 1/8" = 1'-0"



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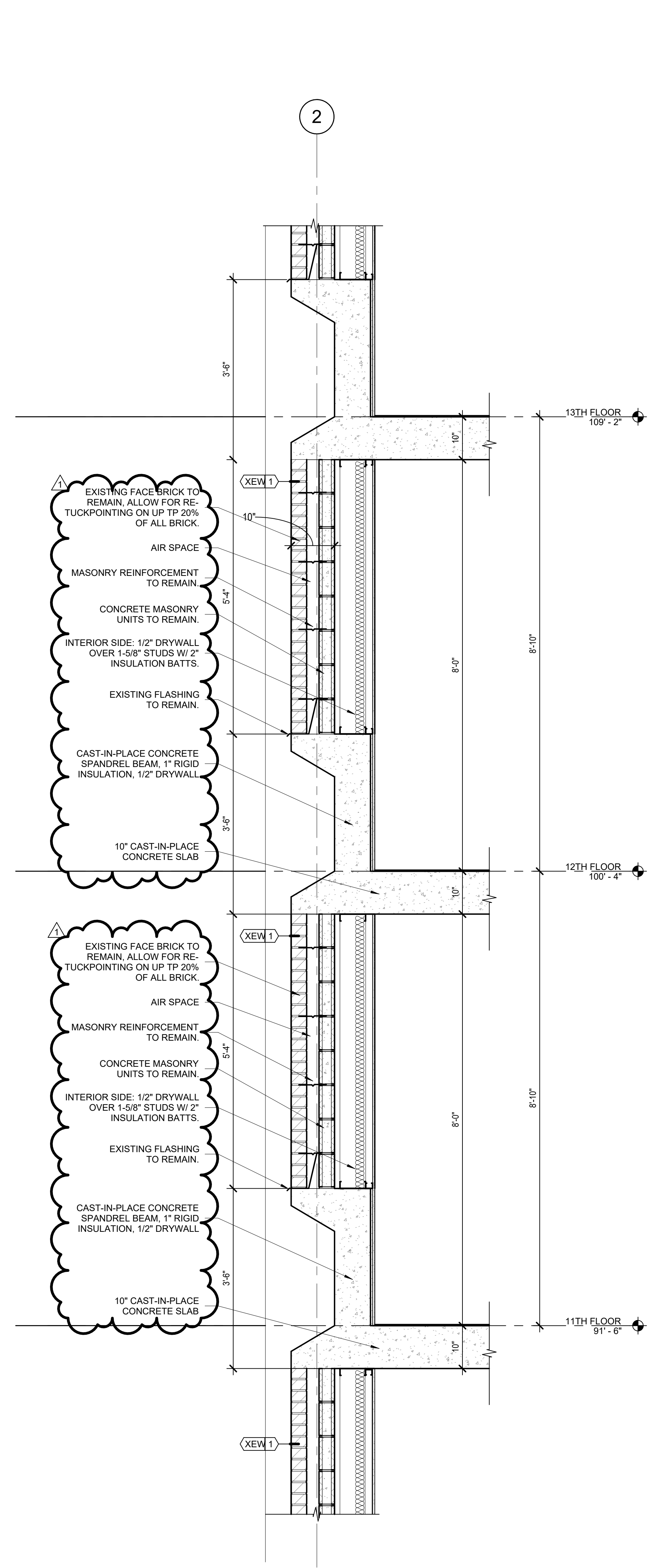
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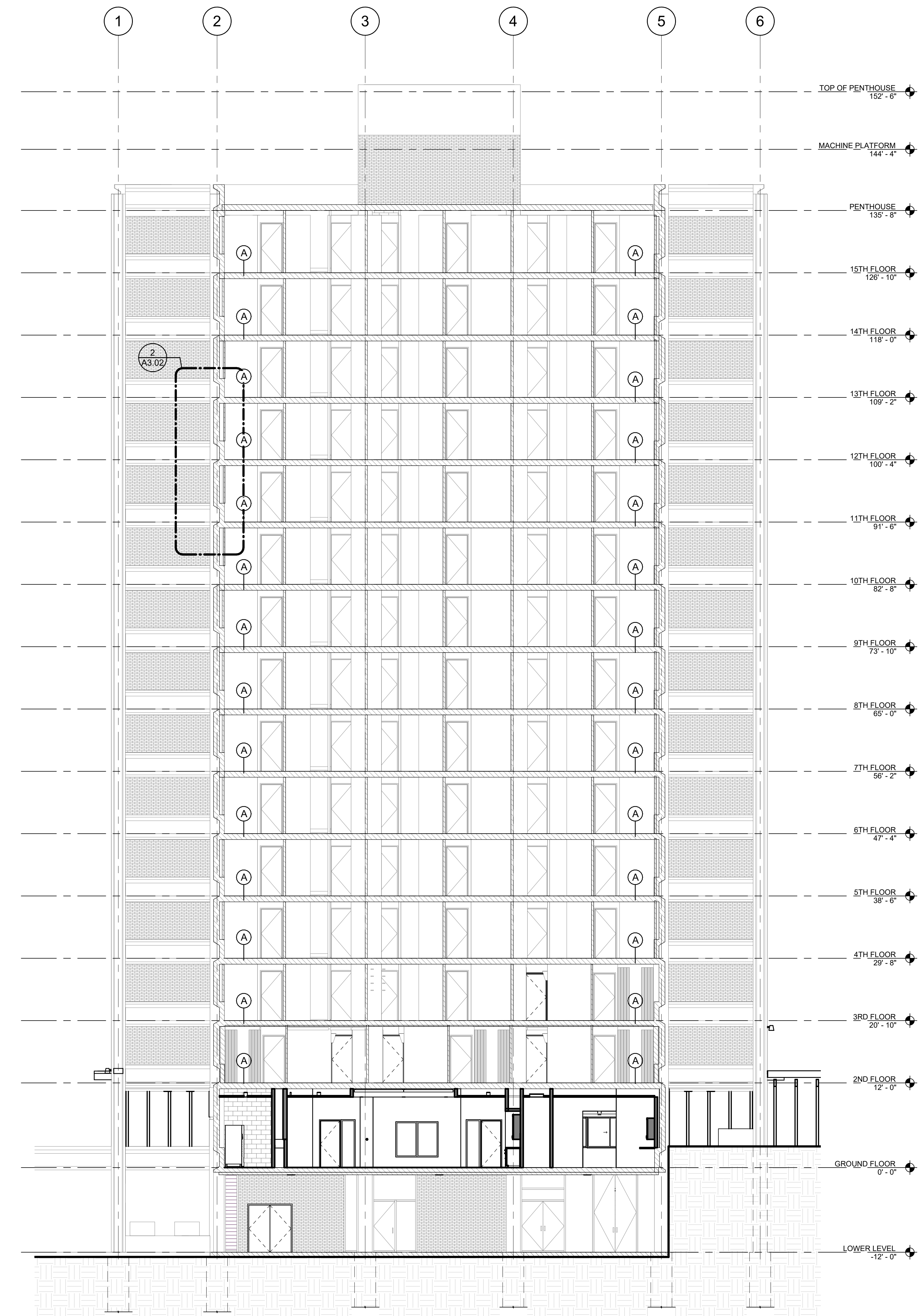
BUILDING SECTION

A3.01

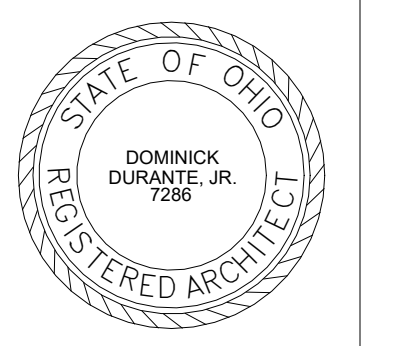
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| | 2024.01.05 | DESIGN DEVELOPMENT |
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| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| ▲ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



2 TYPICAL WALL SECTION - BRICK VENEER
SCALE: 3/4" = 1'-0"



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"




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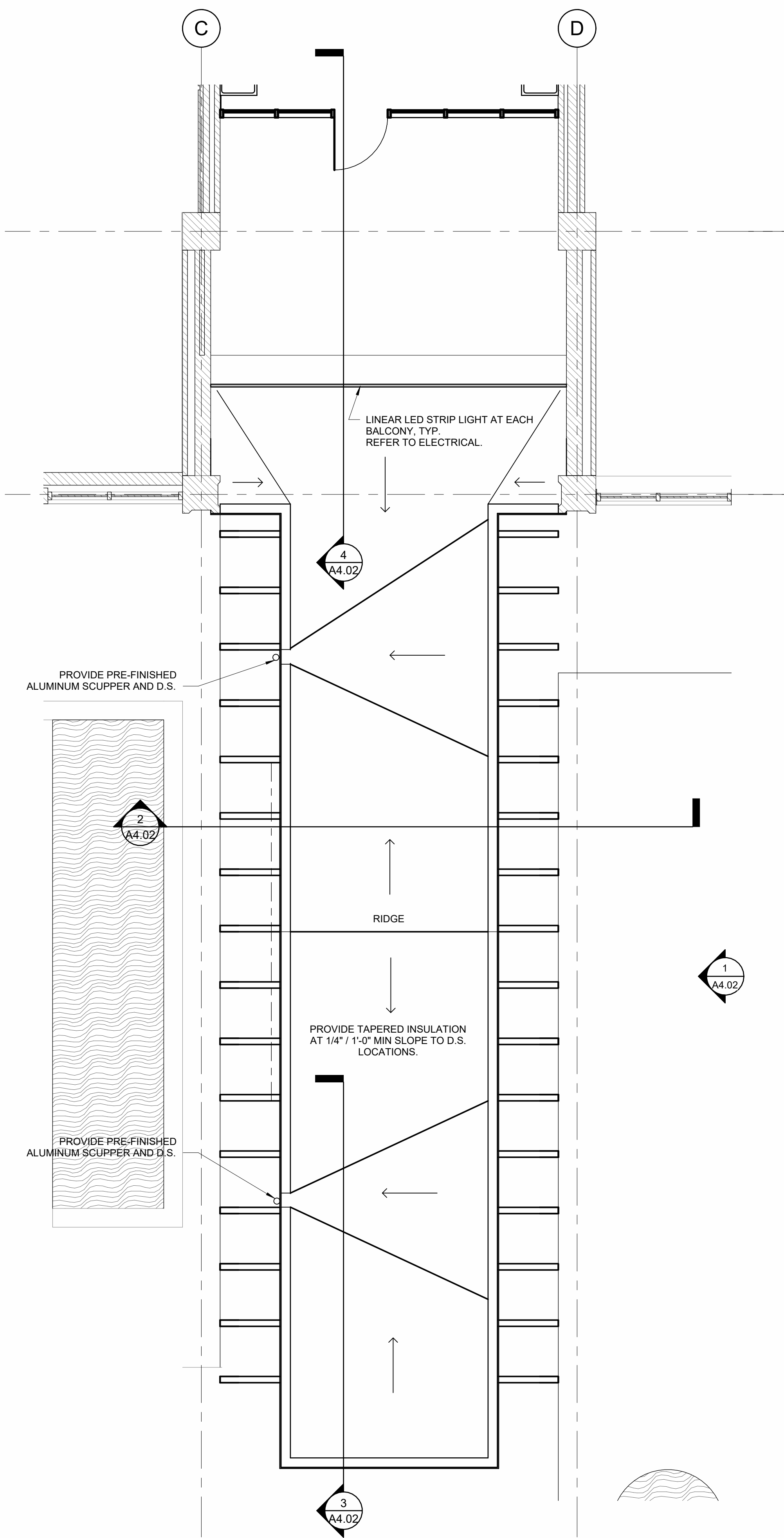
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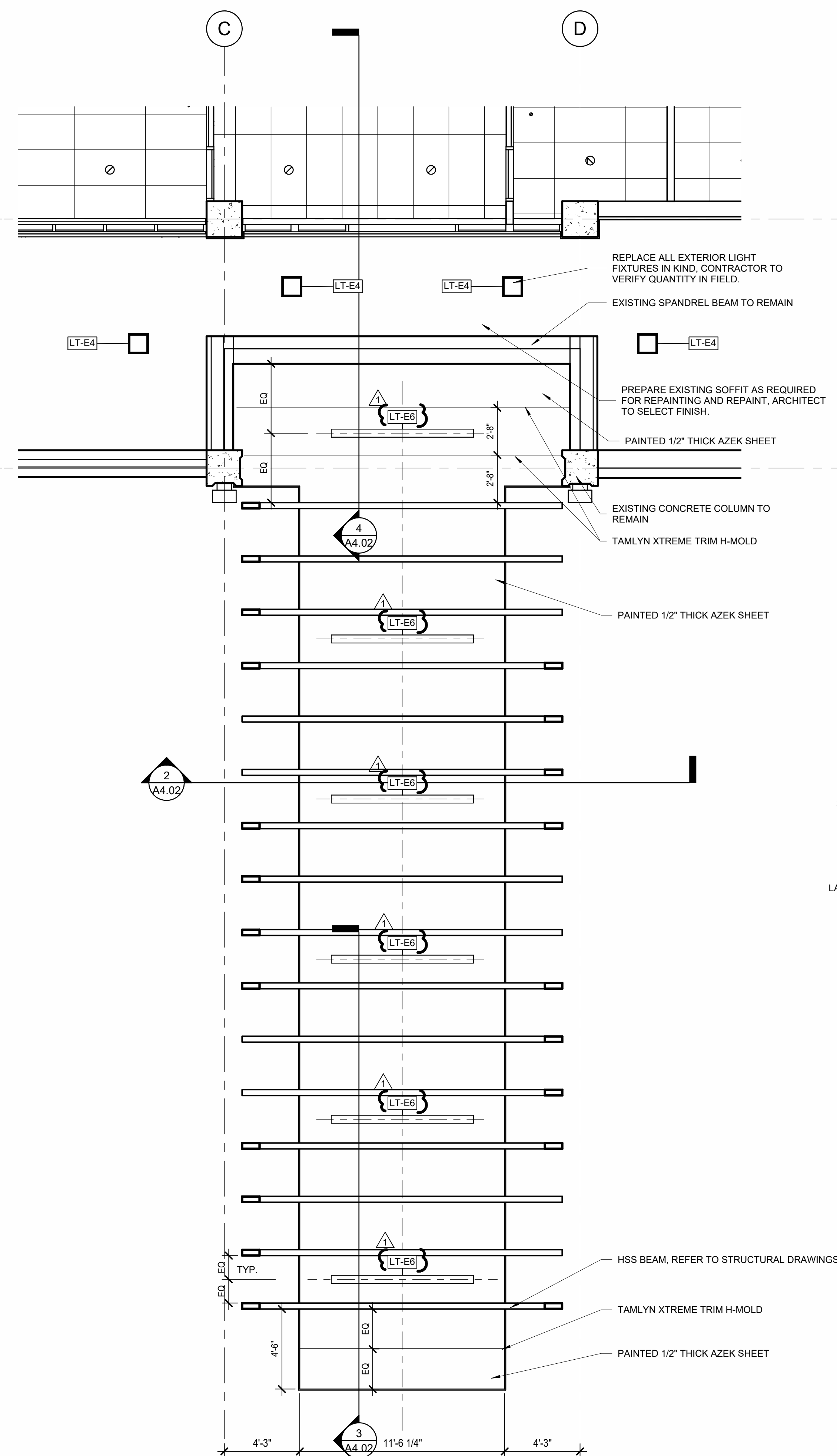
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| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL 
TYPICAL UNLESS NOTED OTHERWISE

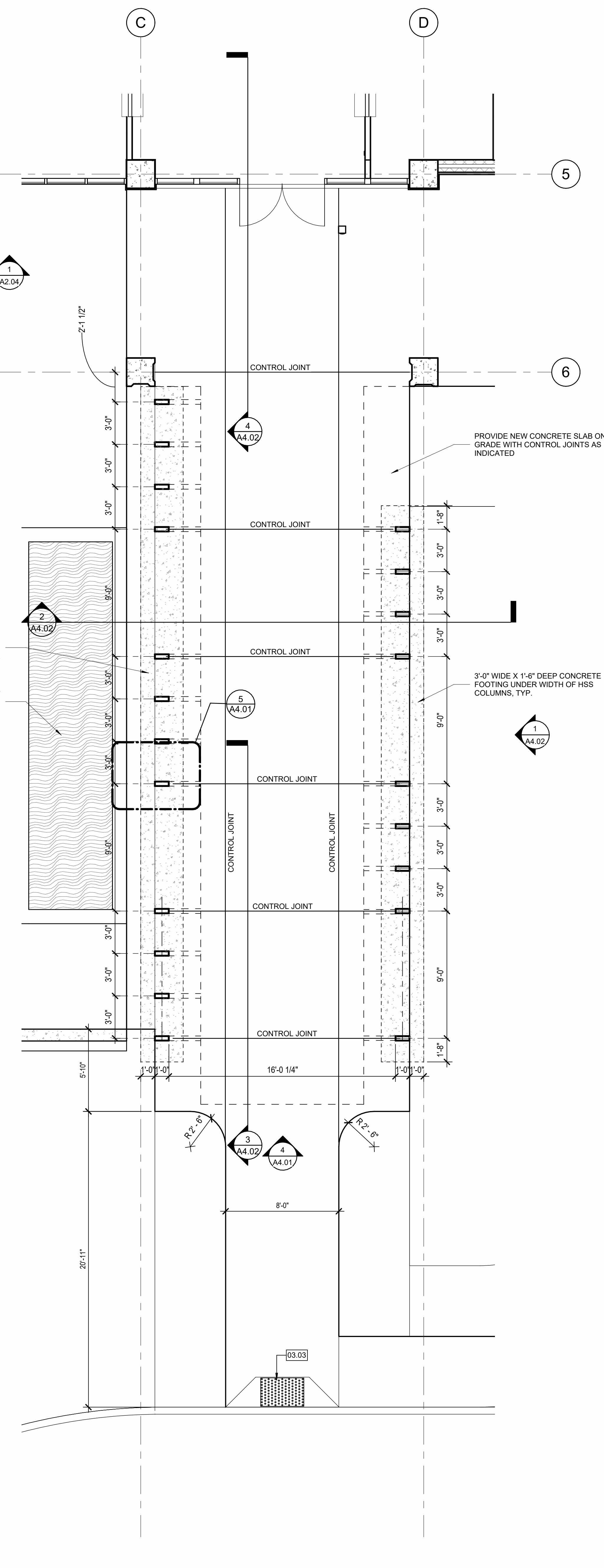
03.03 PROVIDE ADA CURB RAMP WITH ADA WARNING STRIP BY ULINE.



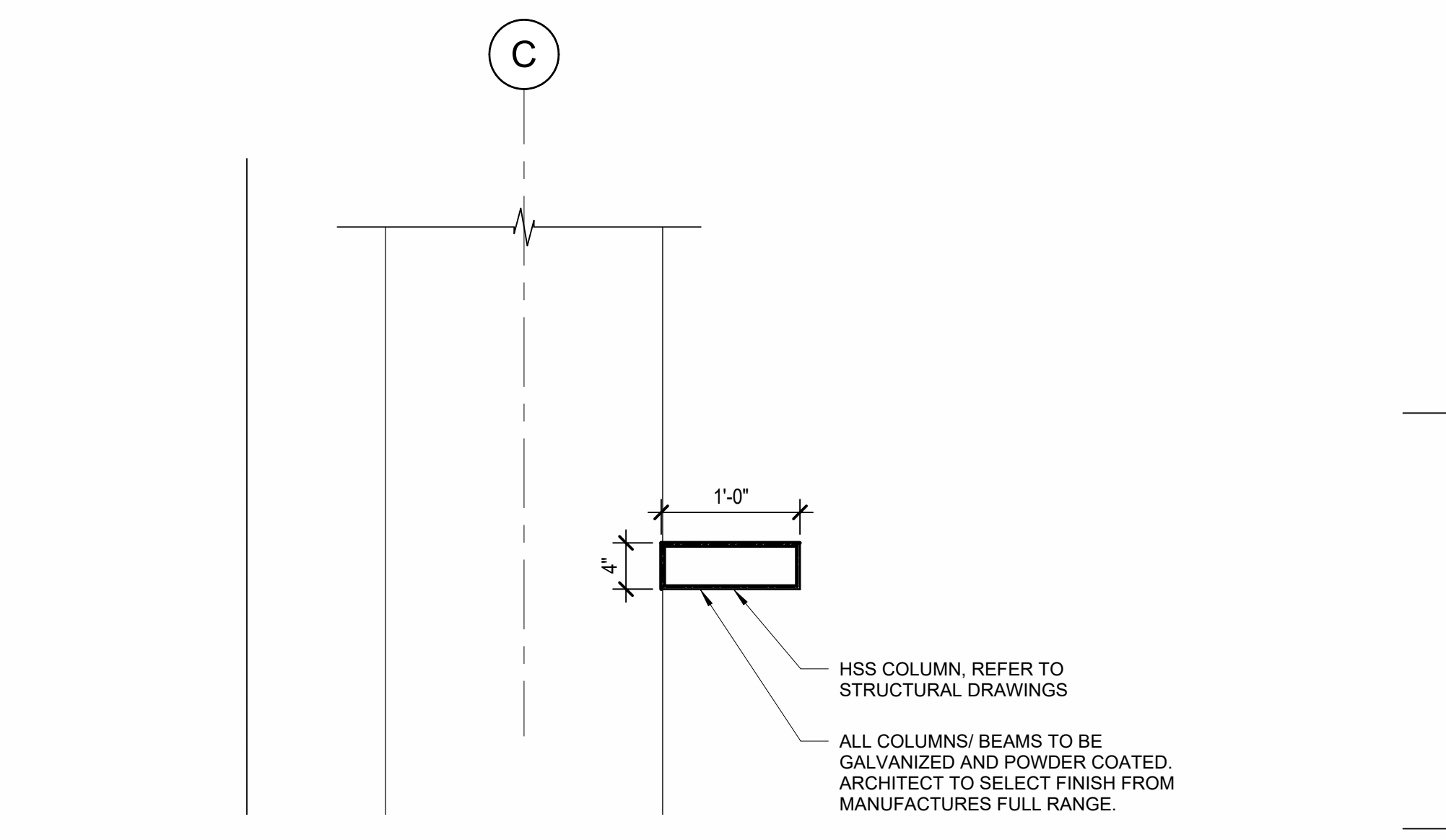
3 ENLARGED CANOPY ROOF PLAN
A4.01 SCALE: 1/4" = 1'-0"



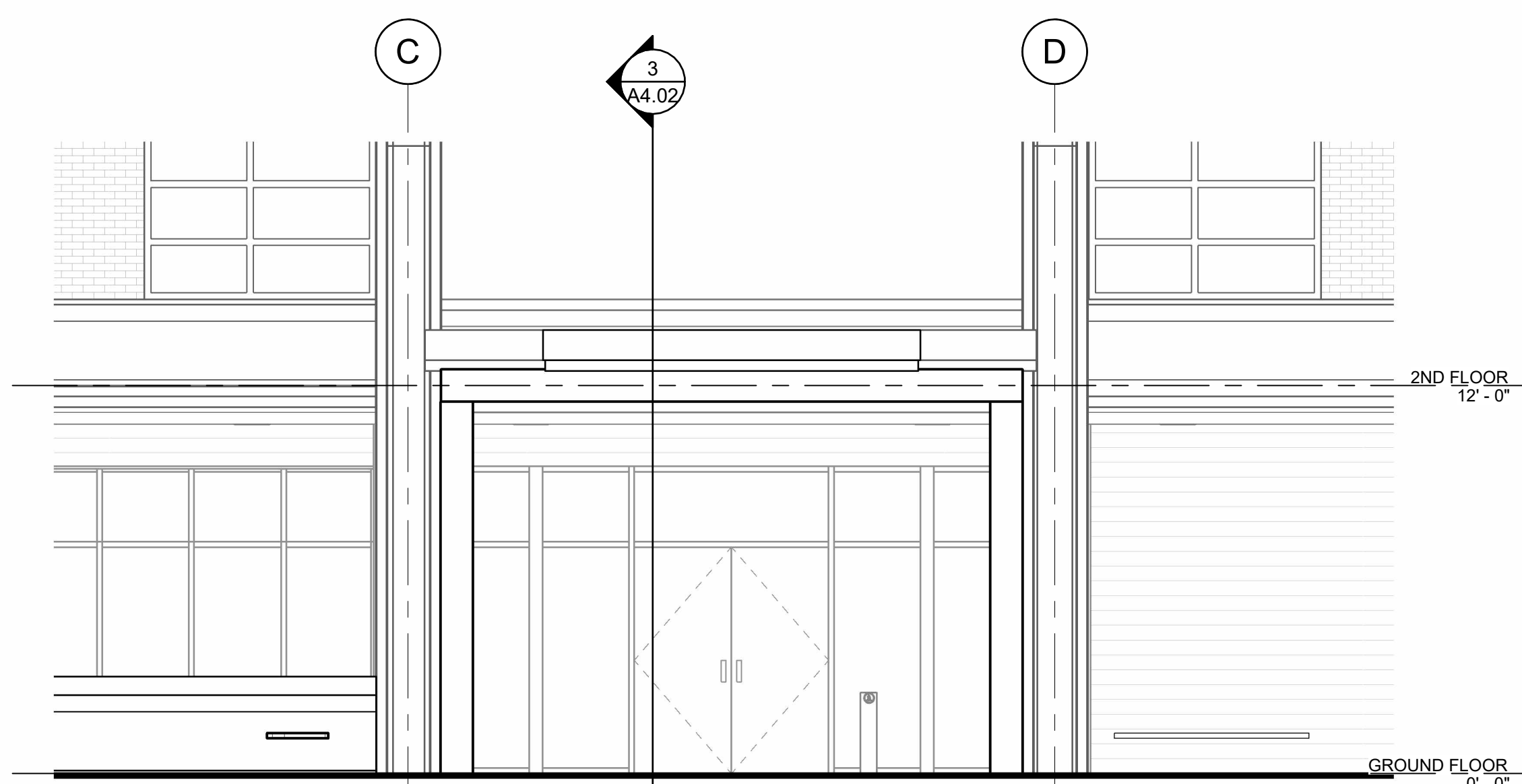
2 ENLARGED CANOPY RCP
A4.01 SCALE: 1/4" = 1'-0"



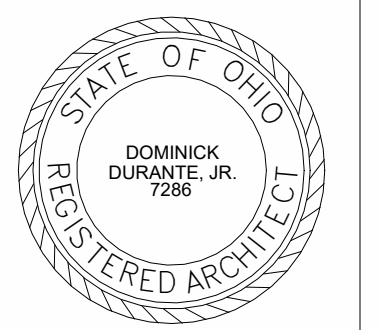
1 ENLARGED CANOPY FLOOR PLAN
A4.01 SCALE: 1/4" = 1'-0"



5 CANOPY COLUMN PLAN DETAIL
A4.01 SCALE: 1" = 1'-0"



4 ENLARGED FRONT CANOPY ELEVATION
A4.01 SCALE: 1/4" = 1'-0"



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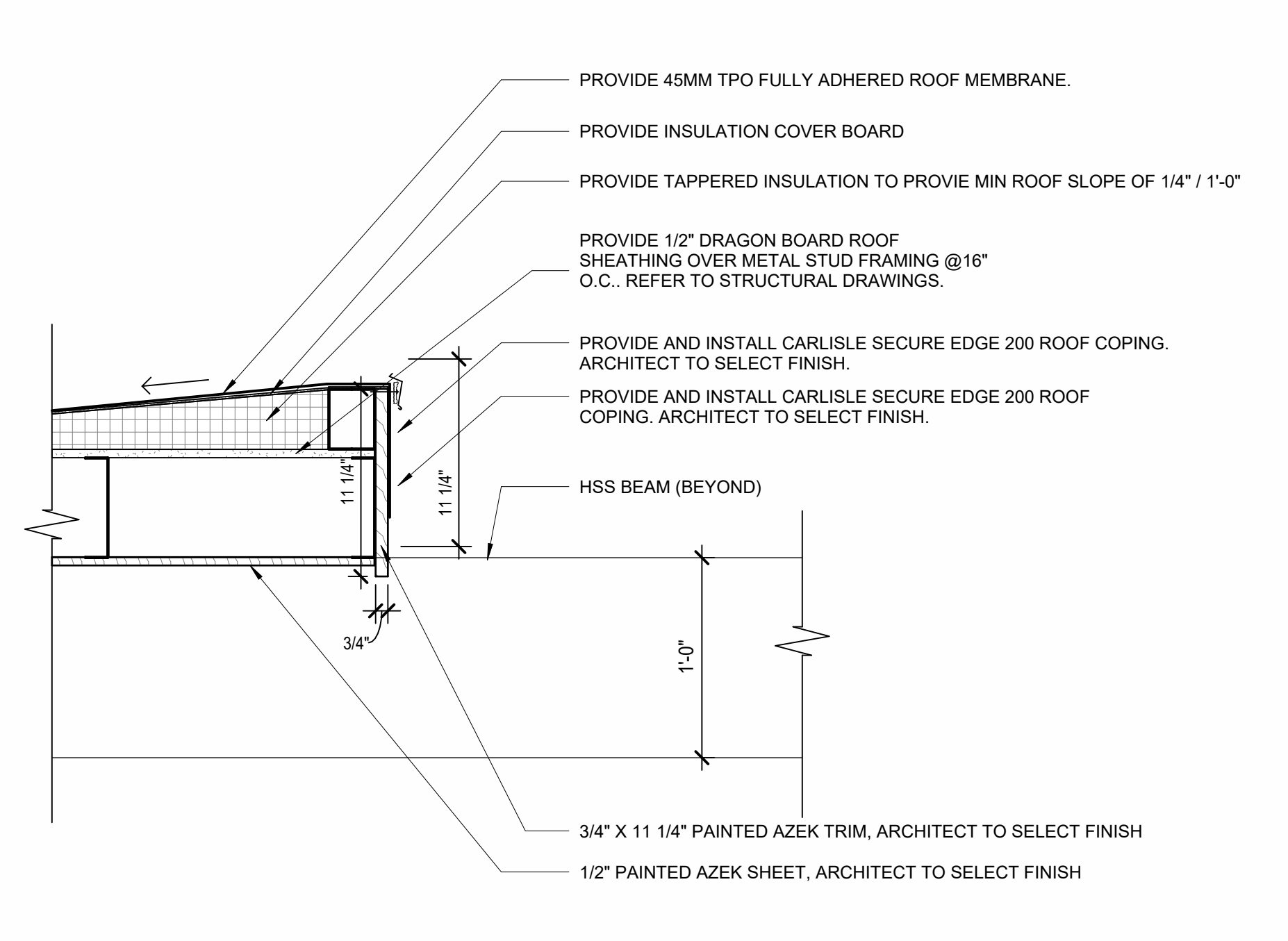
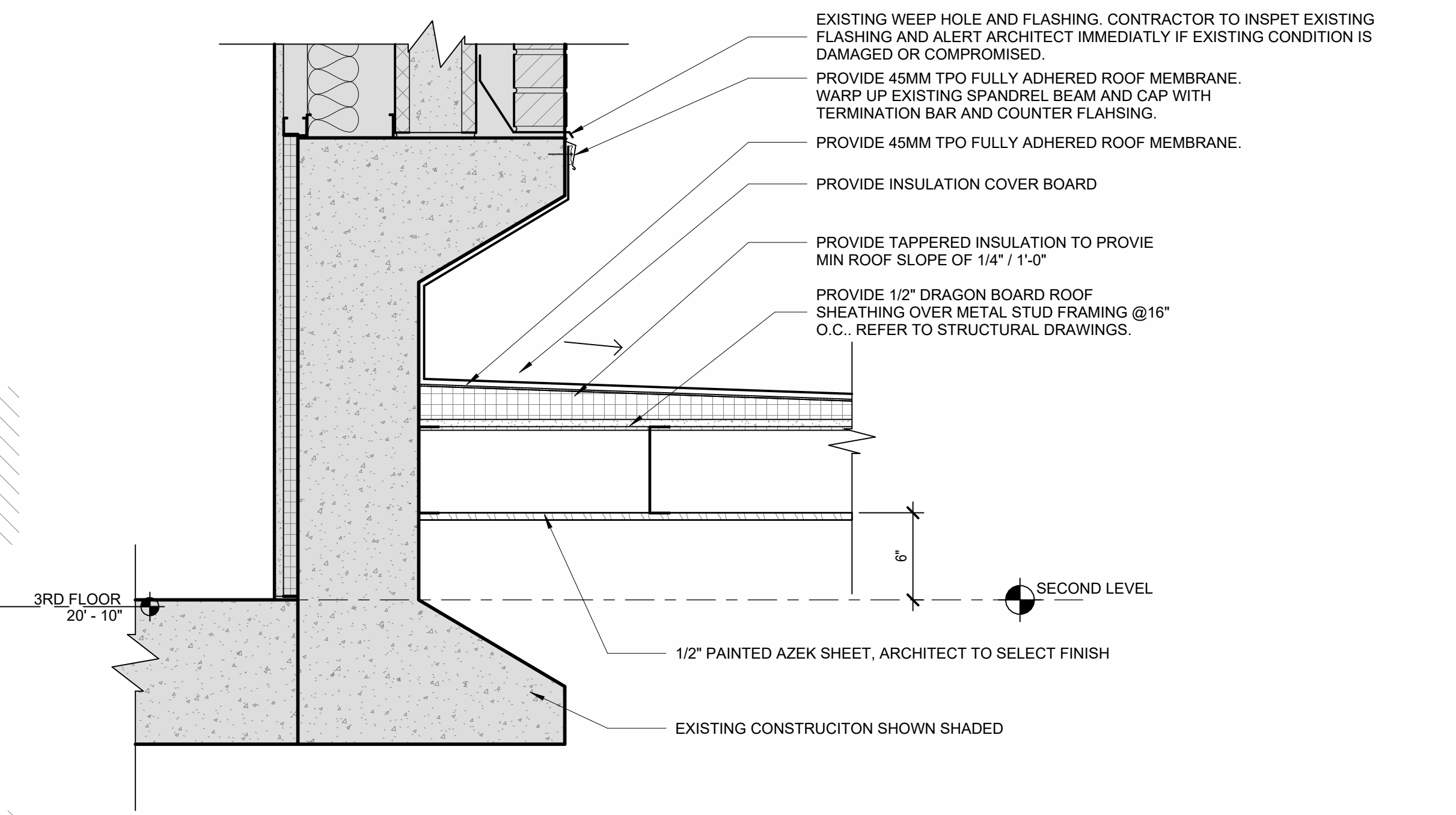
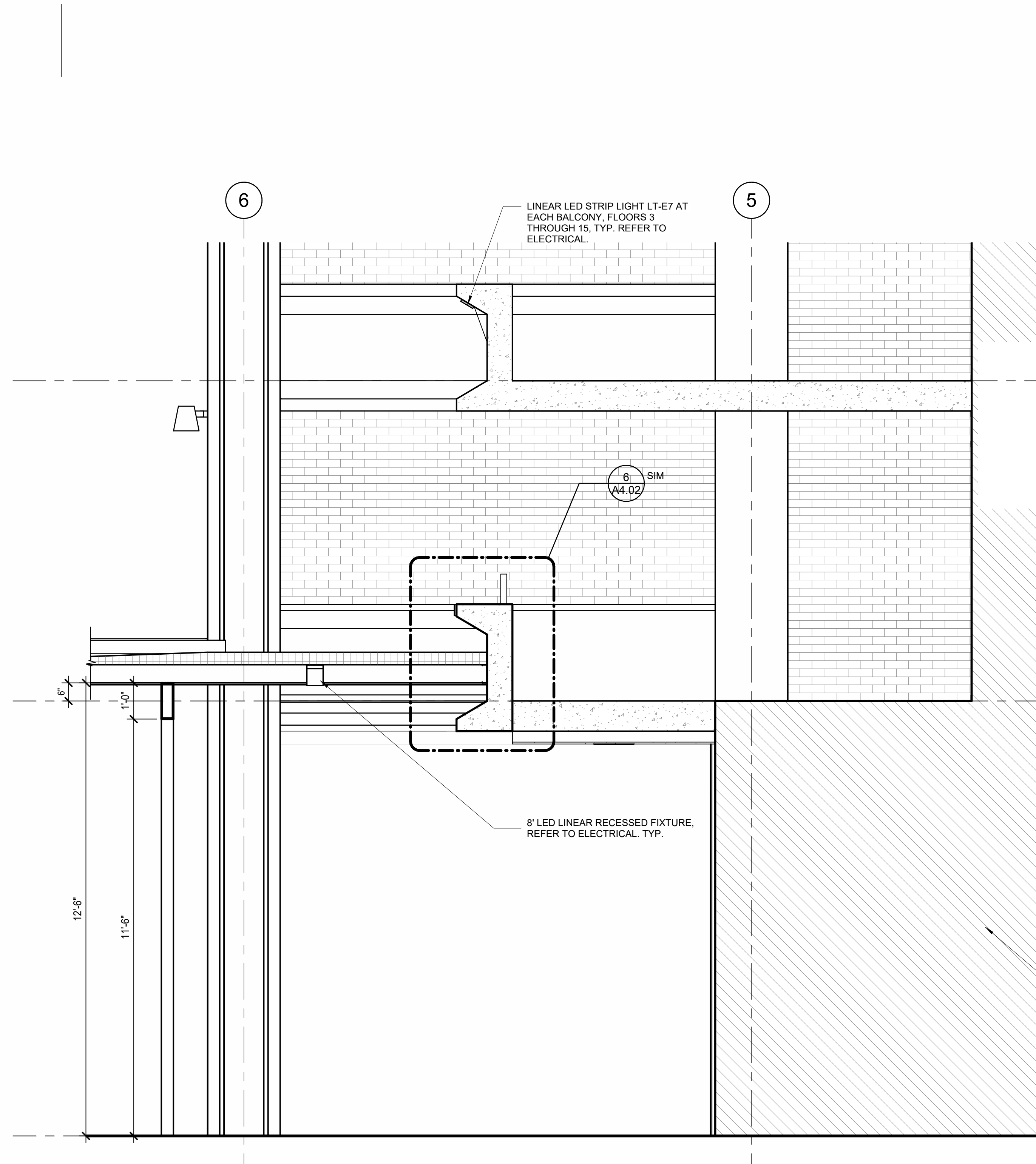
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LDA Project No.23.47

PROPOSED CANOPY PLANS

A4.01

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| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
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| 2024.03.21 | | BIDDING AND PERMIT |

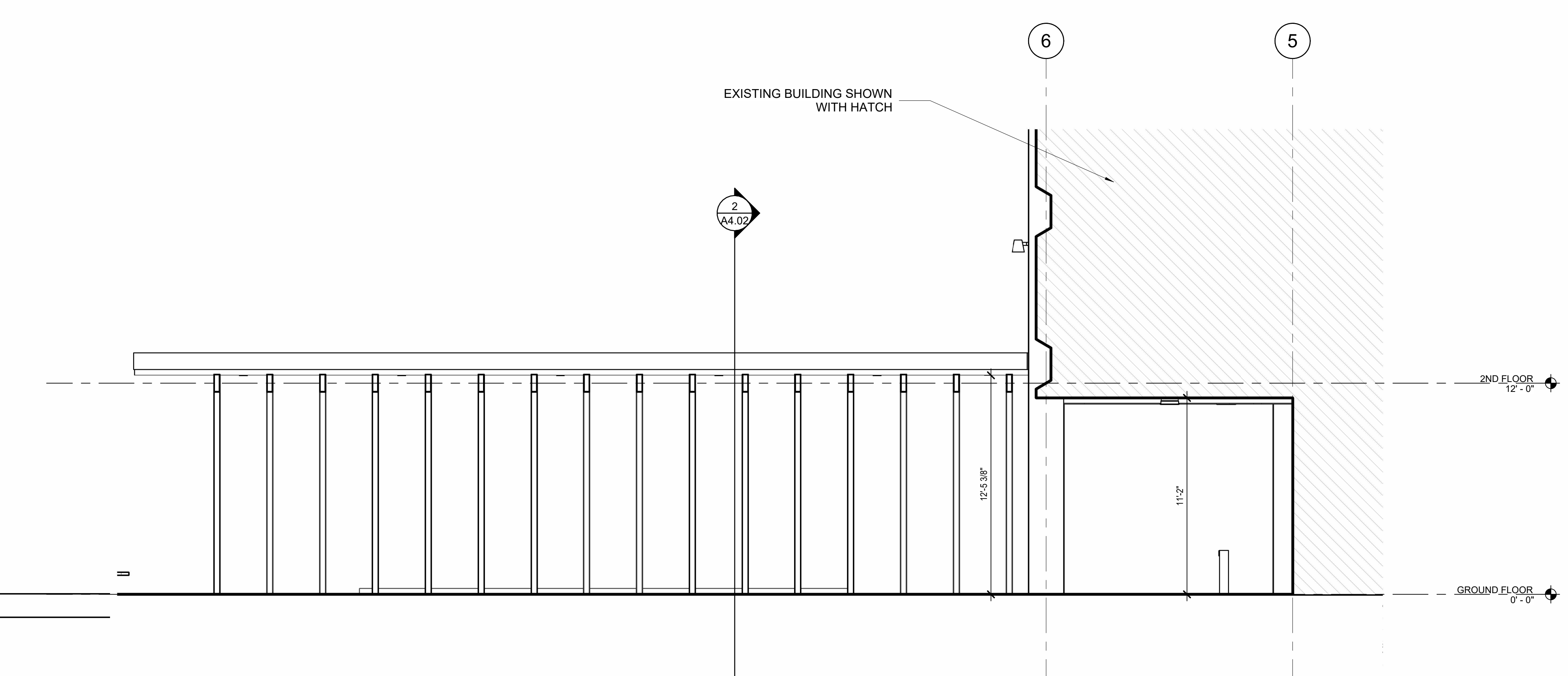
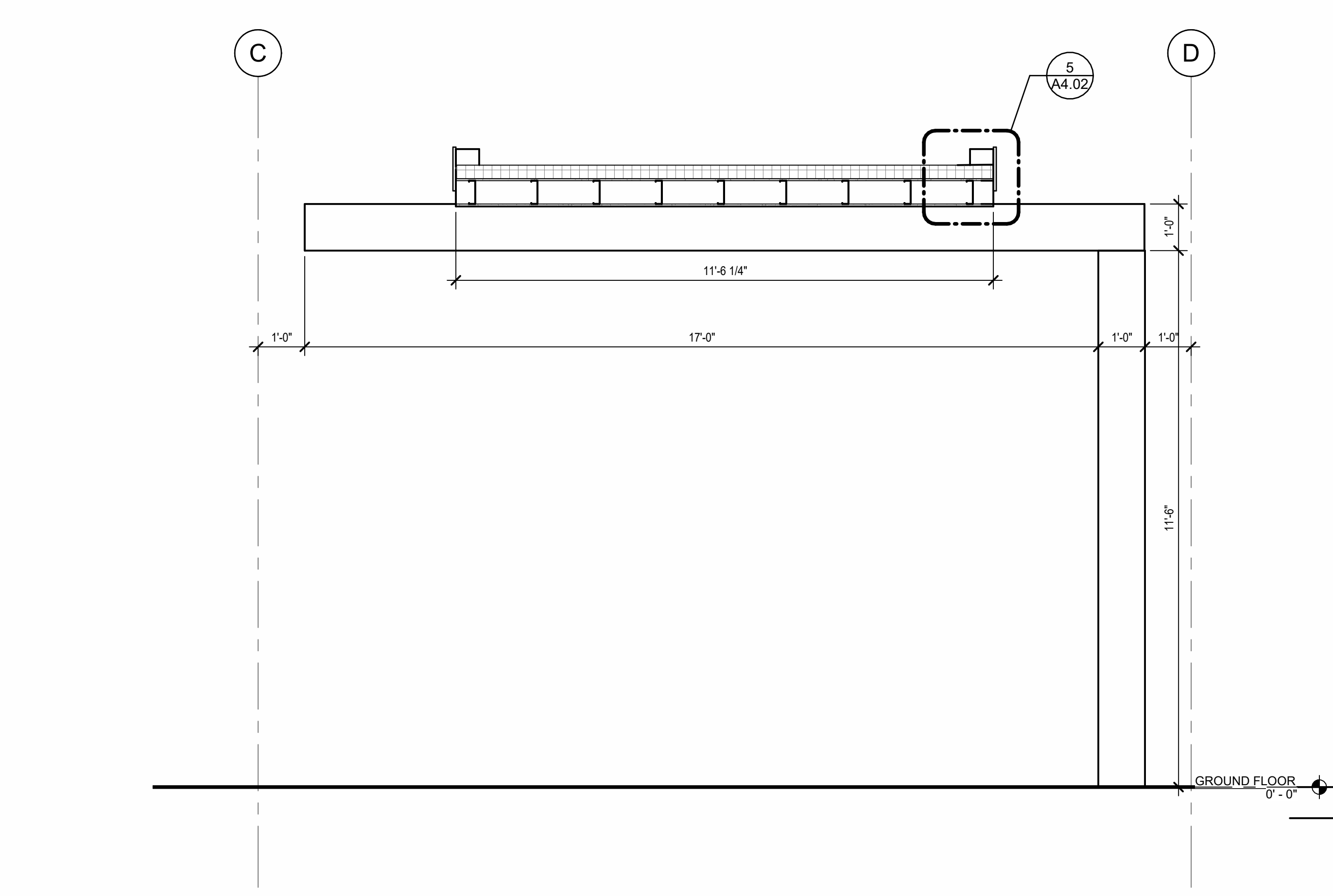


6 TYPICAL CANOPY FLASHING DETAIL
A4.02 SCALE: 1 1/2" = 1'-0"

5 CANOPY EDGE DETAIL
A4.02 SCALE: 1 1/2" = 1'-0"

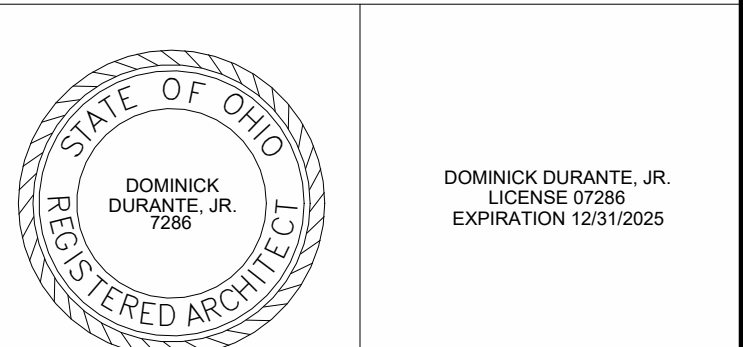
4 PROPOSED CANOPY SECTION AT BUILDING
A4.02 SCALE: 1/2" = 1'-0"

3 PROPOSED CANOPY SECTION AT OVERHANG
A4.02 SCALE: 1/2" = 1'-0"



2 PROPOSED CROSS CANOPY SECTION
A4.02 SCALE: 1/2" = 1'-0"

1 ENLARGED PROPOSED CANOPY SIDE ELEVATION
A4.02 SCALE: 1/4" = 1'-0"



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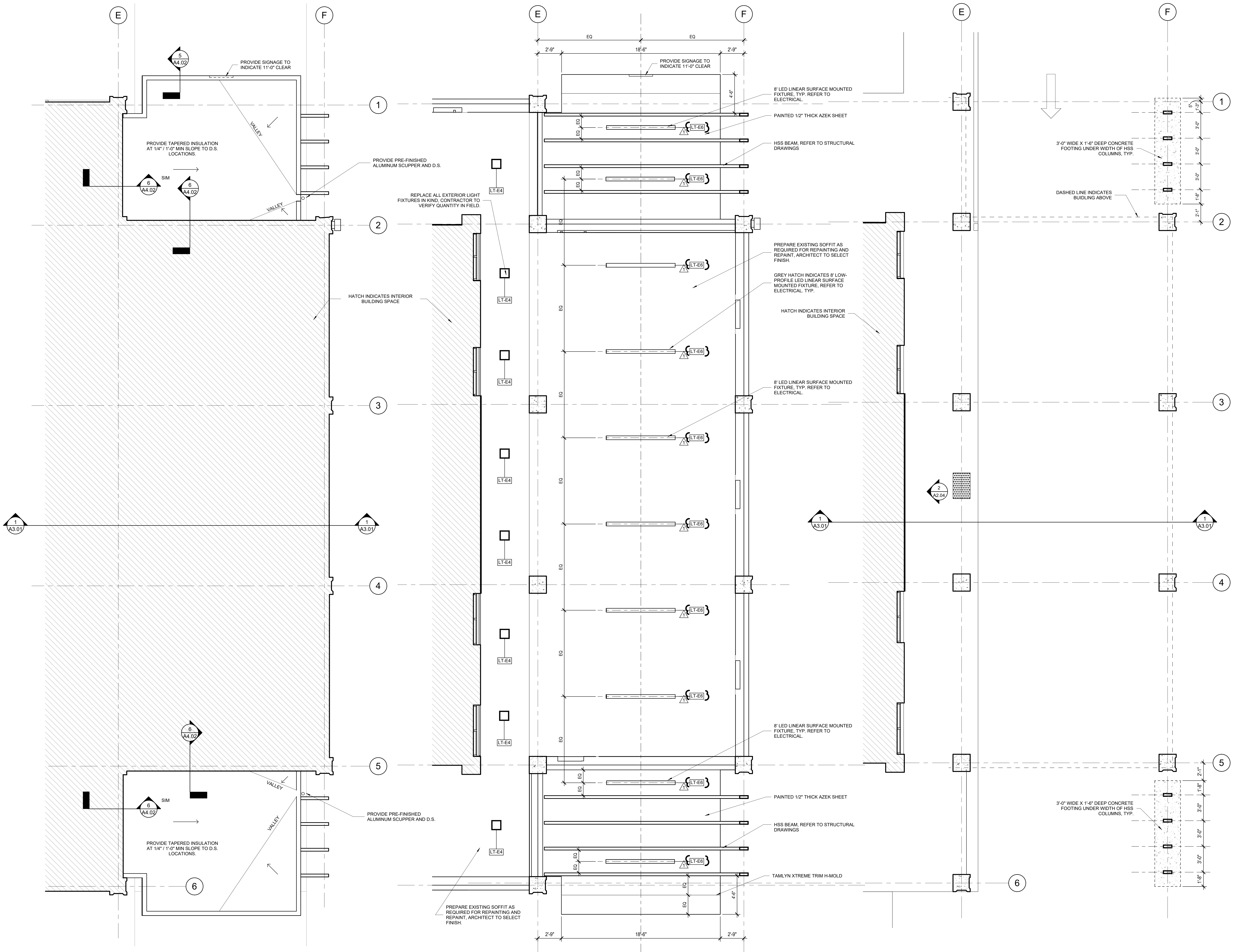
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PROPOSED CANOPY ELEVATIONS AND DETAILS

A4.02

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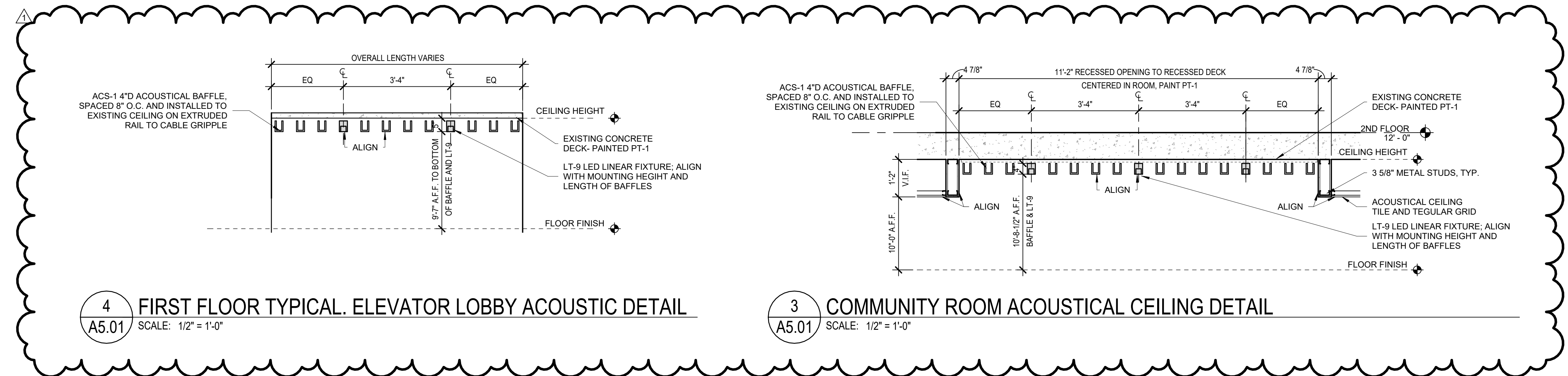
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PROPOSED CANOPY PLANS

A4.03

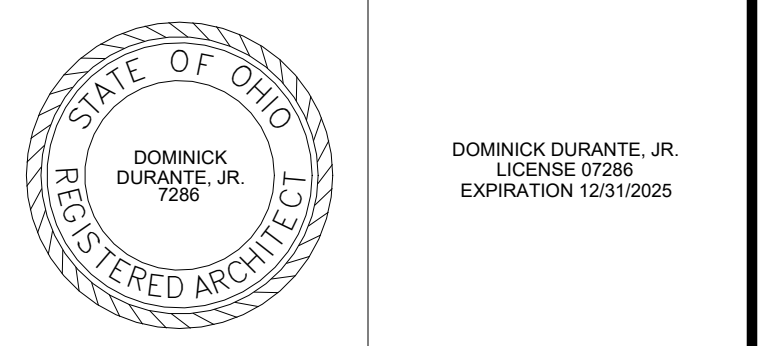
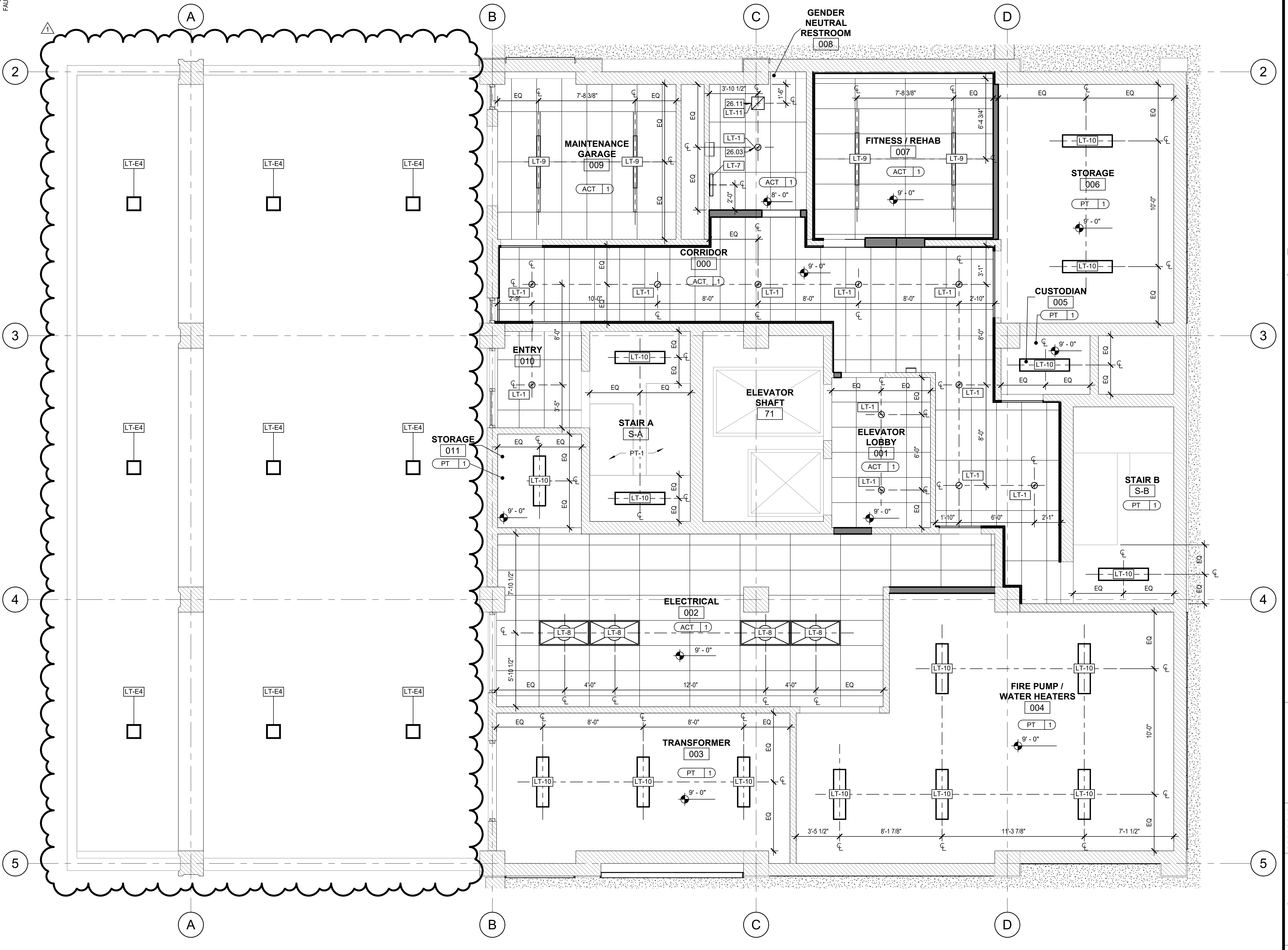
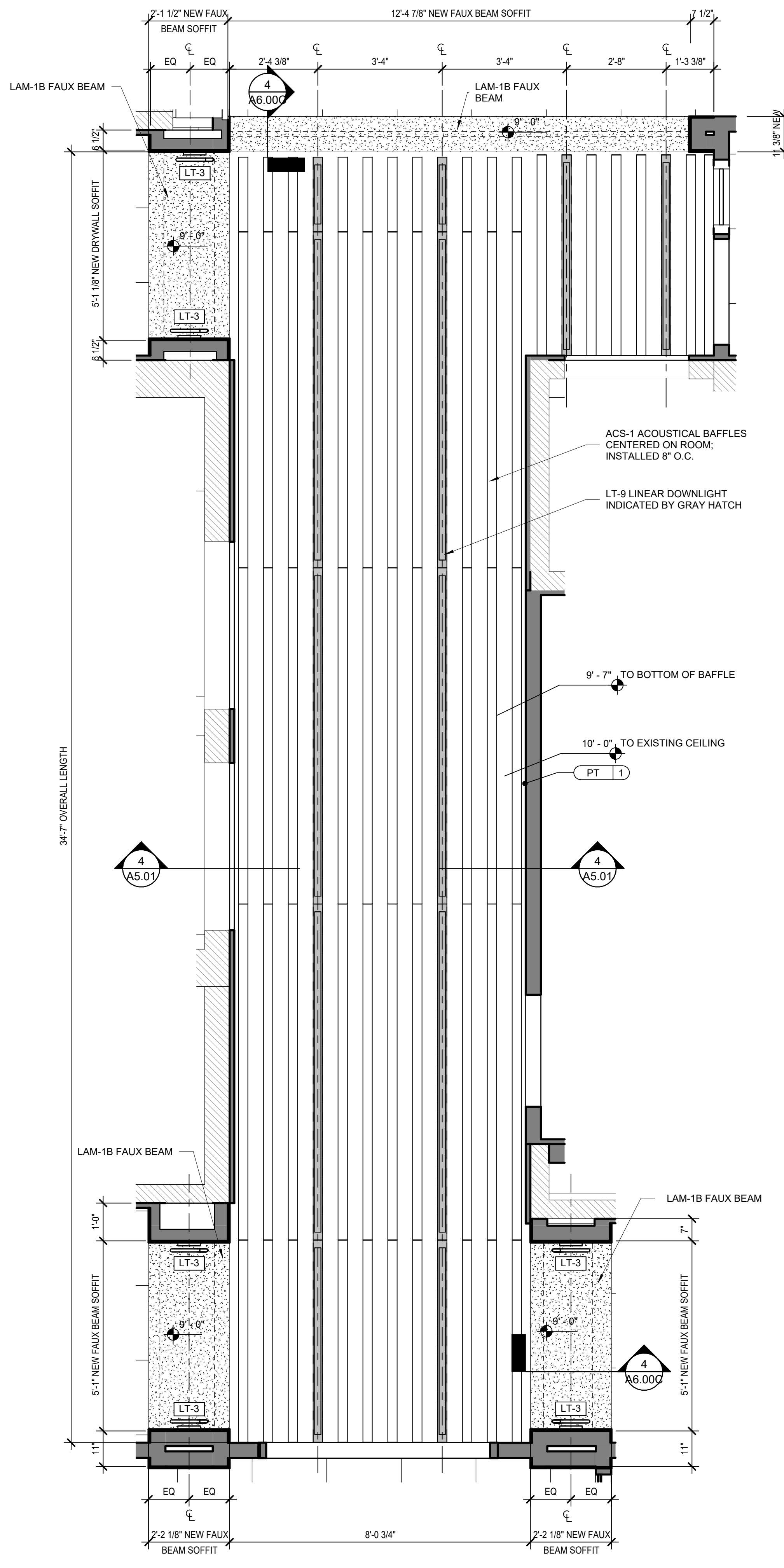


| COMMON AREA FIXTURE LEGEND | |
|----------------------------|--|
| | LT-1 6" RECESSED DOWNLIGHT |
| | LT-2 ALONSO 37" DIAMETER CHANDELIER |
| | LT-3 WALL SCONCE - ADA CERTIFIED |
| | LT-4 TAPE LIGHT - UNDER CABINET |
| | LT-5 17" FLUSH MOUNT |
| | LT-6 ALONSO 8" WALL SCONCE |
| | LT-7 24" VANITY WALL SCONCE |
| | LT-8 24" X 48" RECESSED PANEL |
| | LT-9 2' X 8' LINEAR RECESSED LIGHT |
| | LT-10 12" X 48" UTILITY LIGHT |
| | LT-11 EXHAUST FAN |
| | LT-12 2" MINI RECESSED DOWNLIGHT |
| | LT-13 24" LINEAR RECESSED LIGHT - UNIT ENTRY |
| | LT-14 11" SURFACE MOUNT - EXTERIOR RATED |

| LDA ARCHITECTS | | |
|---|------------|-----------------------------|
| The Offices at the Agora 5000 Euclid Avenue, Suite 104 Cleveland, OH 44103 LDAarchitecture.com 216.932.1890 | | |
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| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

- GENERAL NOTES - REFLECTED CEILING PLAN**
- ALL LIGHTS TO BE ON DIMMERS BY TYPE, TYPICAL
 - LIGHT SWITCHES AND OUTLET COVERS TO BE LEGRAND RADIANT COLLECTION, COLOR WHITE
 - ALL ROOMS TO HAVE THE CAPABILITY OF TURNING LIGHTS ON AND OFF
 - EXIT LIGHTS TO BE CLEAR LED STYLE EDGE LIT
 - EXIT LIGHTS TO BE CENTERED ON DOORWAY SAND BE PLACES 2" OVER DOOR FRAME
 - ALL NEW GRILLES, VENTS, ETC. TO BE PRE-FINISHED 'WHITE'. ALL EXISTING GRILLES, VENTS, ETC. TO BE PAINTED ADJACENT SURFACE FIELD COLOR
 - DIFFUSERS, SPEAKERS, CONDUITS, ETC. THAT ARE PART OF THE CEILING SYSTEM ARE TO BE PRE-FINISHED TO MATCH ADJACENT CEILING UNLESS NOTED OTHERWISE
 - GYPSUM WALLBOARD CEILING AND SOFFITS ARE TO BE PAINTED. VERTICAL SURFACE SOFFITS ARE TO BE PAINTED TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE
 - COORDINATE DIFFUSER AND LIGHT FIXTURE LOCATIONS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS. EXACT LOCATIONS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS SHALL GOVERN. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES
 - COORDINATE LOCATIONS OF SPRINKLER HEADS WITH APPROVED SHOP DRAWINGS
 - REFLECTED CEILING PLAN MAY NOT SHOW EXTENTS OF ELECTRICAL OR MECHANICAL PENETRATIONS OR REQUIRED ACCESS PANELS. COORDINATE WITH INTERIOR ELEVATIONS, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS
 - CONTROL JOINTS TO BE PLACED IN DRYWALL CEILINGS 30'-0" O.C. IN EACH DIRECTION. COORDINATE LOCATIONS WITH ARCHITECT AS NEEDED
 - PROVIDE SUPPORT AND REINFORCEMENT OF PENDANT LIGHT FIXTURES
 - GENERAL CONTRACTOR TO COORDINATE RECESSED LIGHT FIXTURE LOCATIONS WITH DUCTWORK, SPRINKLERS, AN STRUCTURE. SUBMIT REVISIONS TO LDA ARCHITECTURE FOR APPROVAL
 - CENTER SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHTING FIXTURES, ETC. IN CEILING TILES OR ALIGN IN GYPSUM BOARD CEILINGS (SEE MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSERS)
 - CEILING TILES TO BE LAID OUT IN SPACES AS SHOWN IN ARCHITECTURAL REFLECTED CEILING PLANS
 - FIREHORN AND ALARM PULL TO BE VERTICALLY ALIGNED WHERE THEY OCCUR TOGETHER
 - DUPLEX RECEPTACLES TO BE ALIGNED BELOW EITHER THE WALL MOUNTED FIXTURES OR THE FIRE ALARM PULL/FIREHORN WHEREVER THEY OCCUR.

- KEYED NOTES SPECIFIC TO THIS SHEET**
- REFERENCED BY THE SYMBOL
- TYPICAL UNLESS NOTED OTHERWISE
- 26.03 CENTER FIXTURE IN ROOM
 - 26.11 CENTER FIXTURE ON WATER CLOSET.



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LDA Project No.23.47


OVERALL BASEMENT LEVEL REFLECTED CEILING PLAN
A5.01

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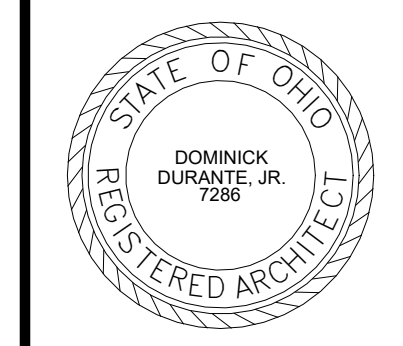
GENERAL NOTES - REFLECTED CEILING PLAN

- ALL LIGHTS TO BE ON DIMMERS BY TYPE, TYPICAL
- LIGHT SWITCHES AND OUTLET COVERS TO BE LEGRAND RADIANT COLLECTION, COLOR WHITE
- ALL ROOMS TO HAVE THE CAPABILITY OF TURNING LIGHTS ON AND OFF
- EXIT LIGHTS TO BE CLEAR LED STYLE EDGE LIT
- EXIT LIGHTS TOW BE CENTERED ON DOORWAY SAND BE PLACES 2" OVER DOOR FRAME
- ALL NEW GRILLES, VENTS, ETC TO BE PRE-FINISHED 'WHITE', ALL EXISTING GRILLES, VENTS, ETC. TO BE PAINTED ADJACENT SURFACE FIELD COLOR
- DIFFUSERS, SPEAKERS, CONDUITS, ETC THAT ARE PART OF THE CEILING SYSTEM ARE TO BE PRE-FINISHED TO MATCH ADJACENT CEILING UNLESS NOTED OTHERWISE
- GYPSUM WALLBOARD CEILING AND SOFFITS ARE TO BE PAINTED, VERTICAL SURFACE SOFFITS ARE TO BE PAINTED TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE
- COORDINATE DIFFUSER AND LIGHT FIXTURE LOCATIONS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS. EXACT LOCATIONS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS SHALL GOVERN. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES.
- COORDINATE LOCATIONS OF SPRINKLER HEADS WITH APPROVED SHOP DRAWINGS
- REFLECTED CEILING PLAN MAY NOT SHOW EXTENTS OF ELECTRICAL OR MECHANICAL PENETRATIONS OR REQUIRED ACCESS PANELS. COORDINATE WITH INTERIOR ELEVATIONS, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS
- CONTROL JOINTS TO BE PLACED IN DRYWALL CEILINGS 30'-0" O.C. IN EACH DIRECTION. COORDINATE LOCATIONS WITH ARCHITECT AS NEEDED
- PROVIDE SUPPORT AND REINFORCEMENT OF PENDANT LIGHT FIXTURES
- GENERAL CONTRACTOR TO COORDINATE RECESSED LIGHT FIXTURE LOCATIONS WITH DUCTWORK, SPRINKLERS, AN STRUCTURE. SUBMIT REVISIONS TO LDA ARCHITECTURE FOR APPROVAL
- CENTER SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHTING FIXTURES, ETC. IN CEILING TILES OR ALIGN IN GYPSUM BOARD CEILINGS (SEE MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSERS)
- CEILING TILES TO BE LAID OUT IN SPACES AS SHOWN IN ARCHITECTURAL REFLECTED CEILING PLANS
- FIREHORN AND ALARM PULL TO BE VERTICALLY ALIGNED WHERE THEY OCCUR TOGETHER
- DUPLEX RECEPTACLES TO BE ALIGNED BELOW EITHER THE WALL MOUNTED FIXTURES OR THE FIRE ALARM PULL/FIREHORN WHEREVER THEY OCCUR.

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL  TYPICAL UNLESS NOTED OTHERWISE

- 01.04 DASHED LINE REPRESENTS CABINET/COUNTERTOP BELOW
- 26.03 CENTER FIXTURE IN ROOM
- 26.04 CENTER FIXTURE ON VANITY
- 26.08 CENTER FIXTURE ON KITCHEN SINK
- 26.13 PROVIDE POWER & SUPPORT FOR CONFERENCE ROOM TV LOCATION. VERIFY TV SIZE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
- 26.16 PROVIDE OUTLET FOR FUTURE VENDING. COORDINATE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.



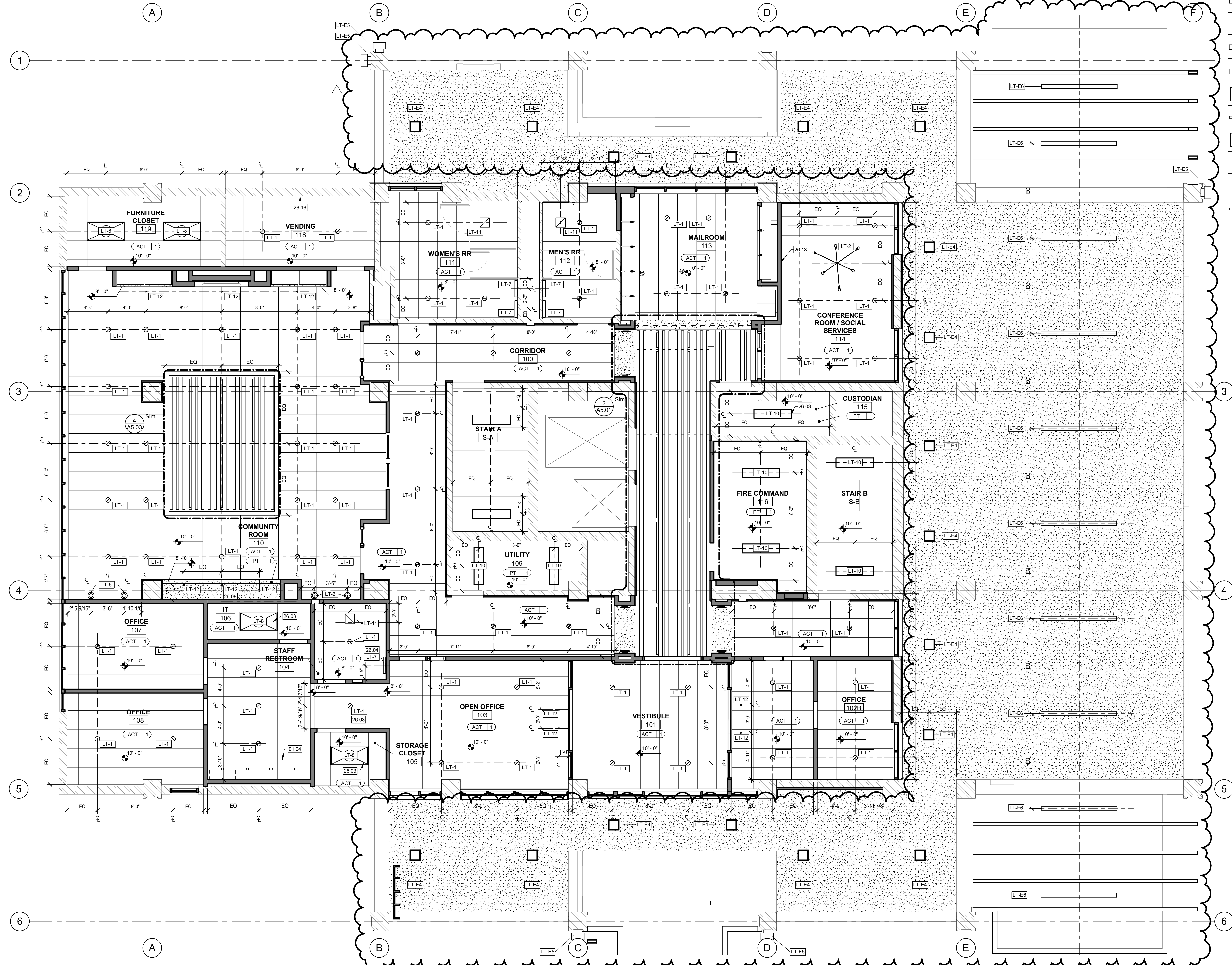
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OVERALL GROUND FLOOR REFLECTED CEILING PLAN

A5.02



1 OVERALL GROUND FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

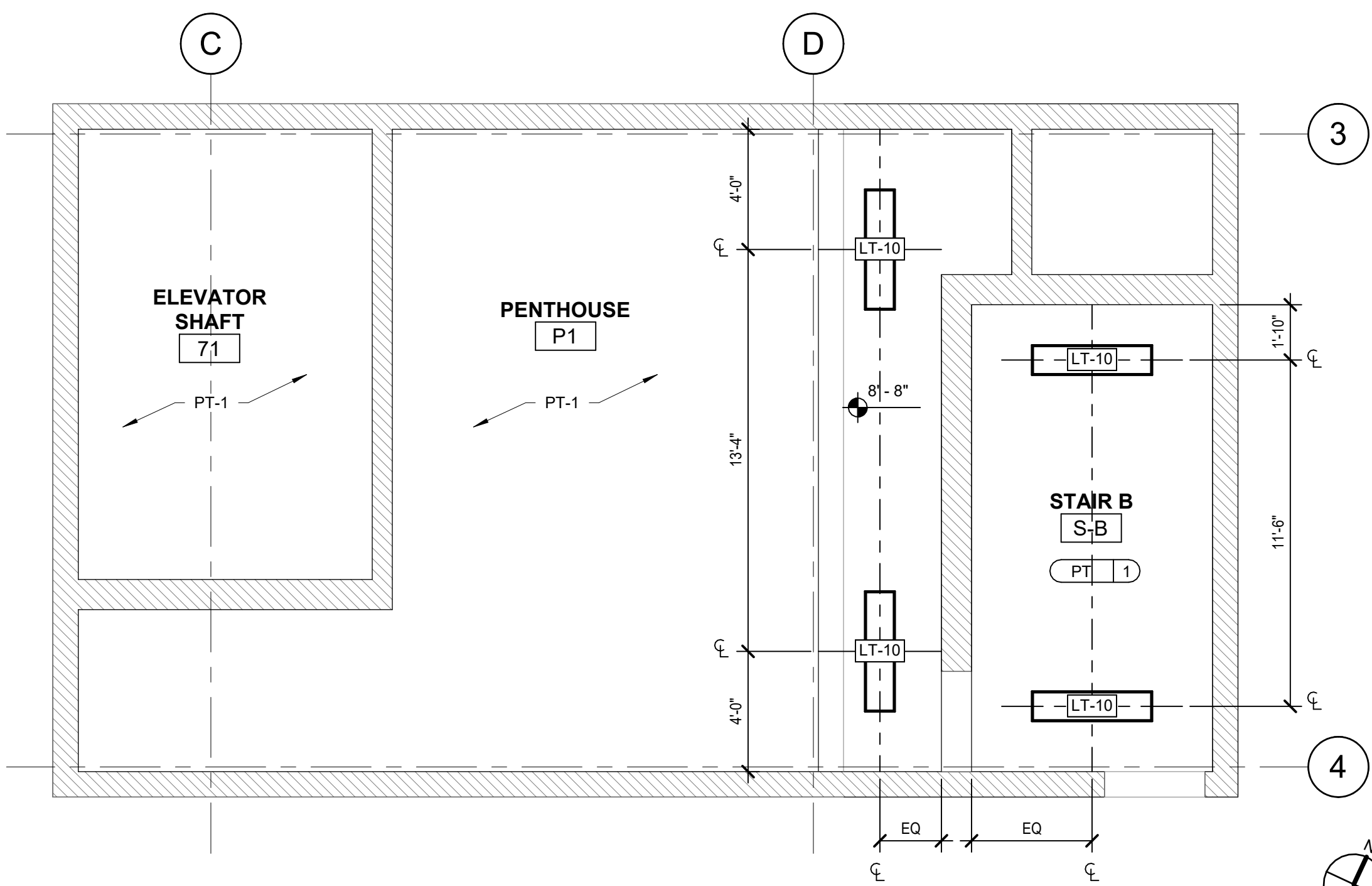
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|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

GENERAL NOTES - REFLECTED CEILING PLAN

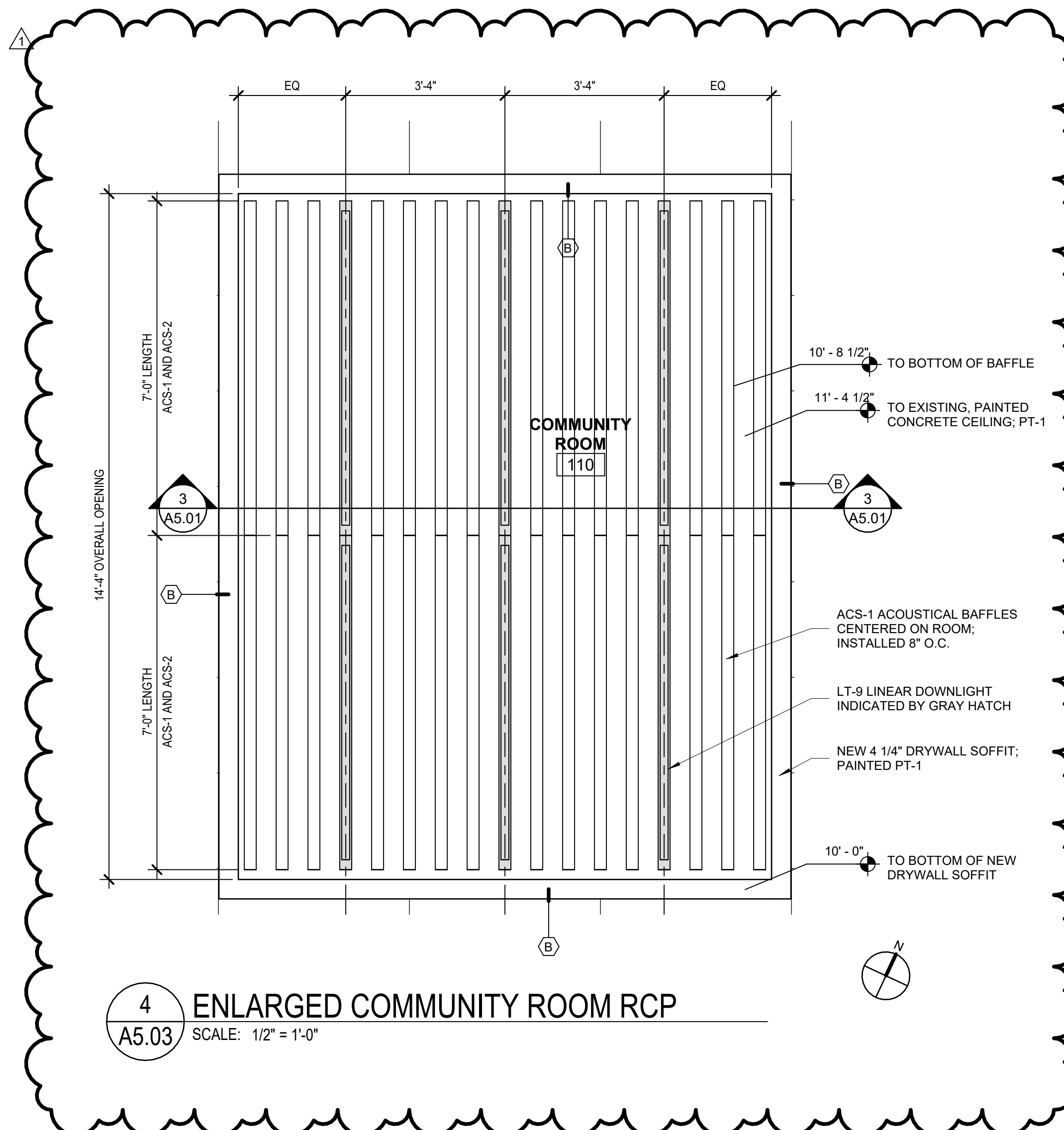
- ALL LIGHTS TO BE ON DIMMERS BY TYPE, TYPICAL
- LIGHT SWITCHES AND OUTLET COVERS TO BE LEGRAND RADIANT COLLECTION, COLOR WHITE
- ALL ROOMS TO HAVE THE CAPABILITY OF TURNING LIGHTS ON AND OFF
- EXIT LIGHTS TO BE CLEAR LED STYLE EDGE LIT
- EXIT LIGHTS TO BE CENTERED ON DOORWAY SAND BE PLACES 2" OVER DOOR FRAME
- ALL NEW GRILLES, VENTS, ETC. TO BE PRE-FINISHED 'WHITE'. ALL EXISTING GRILLES, VENTS, ETC. TO BE PAINTED ADJACENT SURFACE FIELD COLOR
- DIFFUSERS, SPEAKERS, CONDUITS, ETC. THAT ARE PART OF THE CEILING SYSTEM ARE TO BE PRE-FINISHED TO MATCH ADJACENT CEILING UNLESS NOTED OTHERWISE
- GYPSUM WALLBOARD CEILING AND SOFFITS ARE TO BE PAINTED. VERTICAL SURFACE SOFFITS ARE TO BE PAINTED TO MATCH ADJACENT WALLS UNLESS NOTED OTHERWISE
- COORDINATE DIFFUSER AND LIGHT FIXTURE LOCATIONS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS. EXACT LOCATIONS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS SHALL GOVERN. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES
- COORDINATE LOCATIONS OF SPRINKLER HEADS WITH APPROVED SHOP DRAWINGS
- REFLECTED CEILING PLAN MAY NOT SHOW EXTENTS OF ELECTRICAL OR MECHANICAL PENETRATIONS OR REQUIRED ACCESS PANELS. COORDINATE WITH INTERIOR ELEVATIONS, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS
- CONTROL JOINTS TO BE PLACED IN DRYWALL CEILINGS 30'-0" O.C. IN EACH DIRECTION. COORDINATE LOCATIONS WITH ARCHITECT AS NEEDED
- PROVIDE SUPPORT AND REINFORCEMENT OF PENDANT LIGHT FIXTURES
- GENERAL CONTRACTOR TO COORDINATE RECESSED LIGHT FIXTURE LOCATIONS WITH DUCTWORK, SPRINKLERS, AN STRUCTURE. SUBMIT REVISIONS TO LDA ARCHITECTURE FOR APPROVAL
- CENTER SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHTING FIXTURES, ETC. IN CEILING TILES OR ALIGN IN GYPSUM BOARD CEILINGS (SEE MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSERS)
- CEILING TILES TO BE LAID OUT IN SPACES AS SHOWN IN ARCHITECTURAL REFLECTED CEILING PLANS
- FIREHORN AND ALARM PULL TO BE VERTICALLY ALIGNED WHERE THEY OCCUR TOGETHER
- DUPLEX RECEPTACLES TO BE ALIGNED BELOW EITHER THE WALL MOUNTED FIXTURES OR THE FIRE ALARM PULL/FIREHORN WHEREVER THEY OCCUR.

KEYED NOTES SPECIFIC TO THIS SHEET

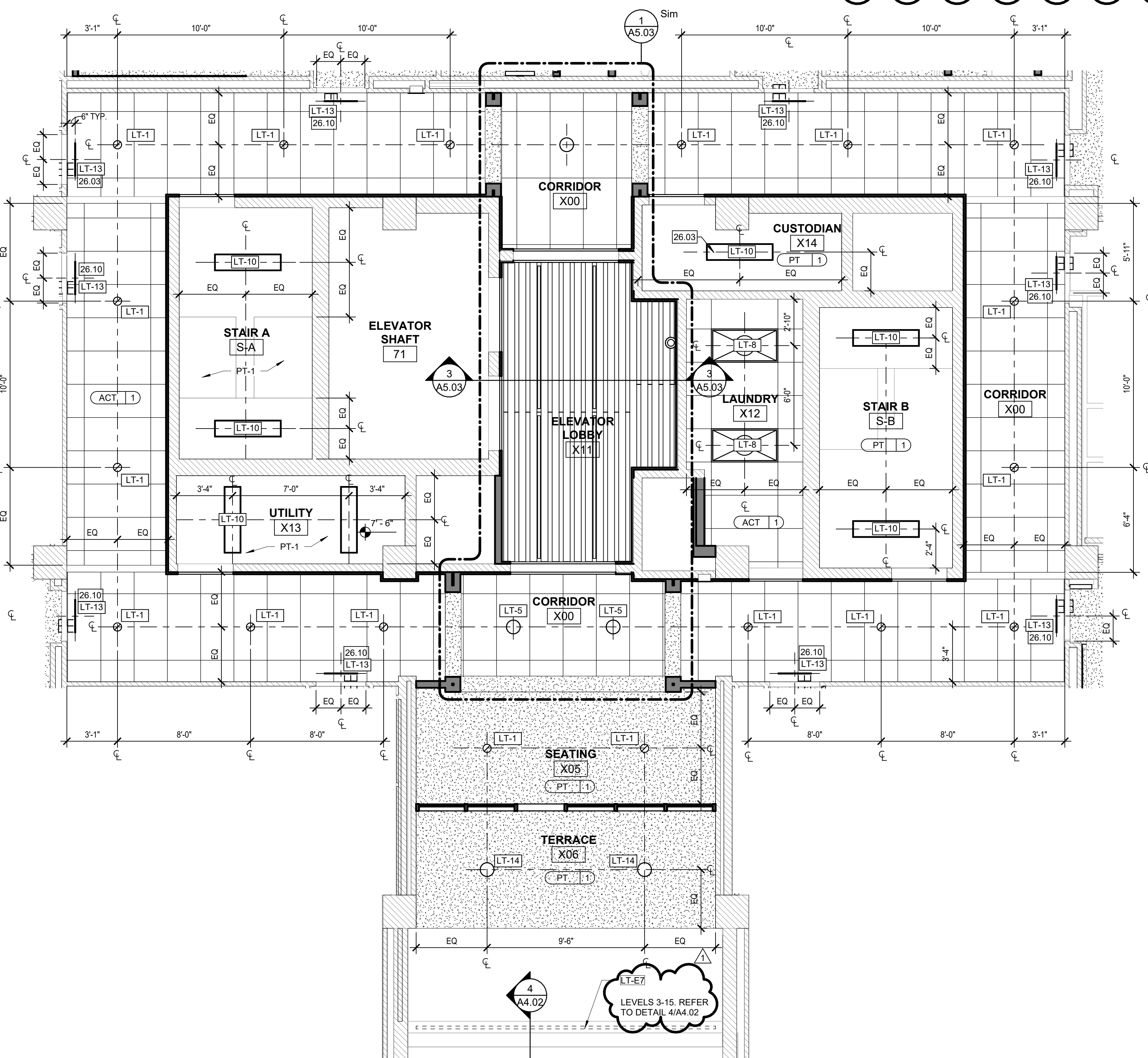
- REFERENCED BY THE SYMBOL
- TYPICAL UNLESS NOTED OTHERWISE
- 26.03 CENTER FIXTURE IN ROOM.
 - 26.10 CENTER FIXTURE ON DOOR/OPENING.



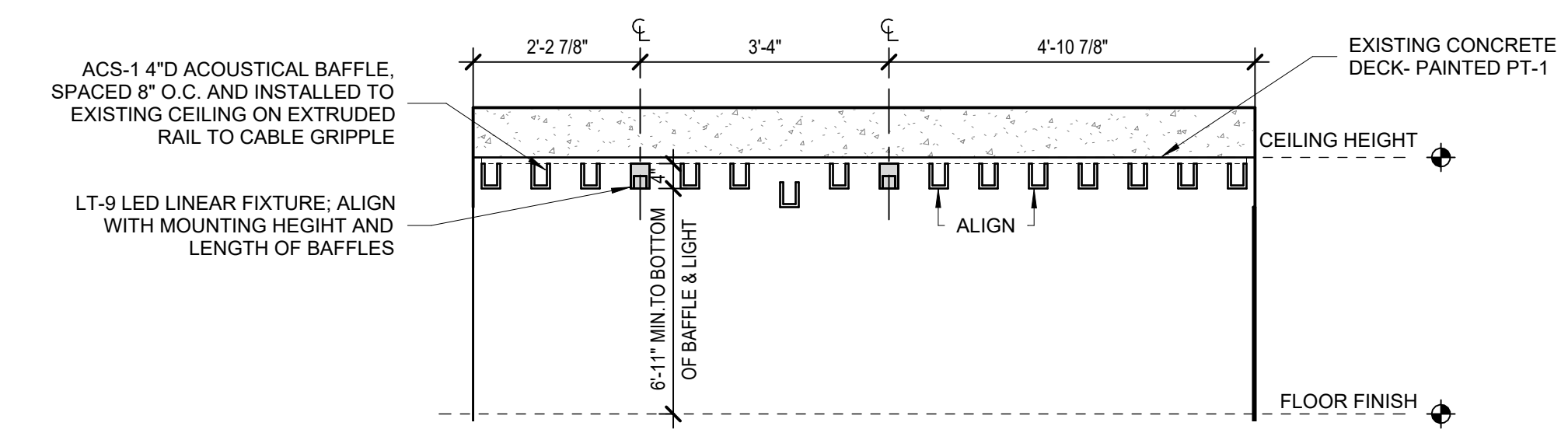
5 PENTHOUSE LEVEL REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



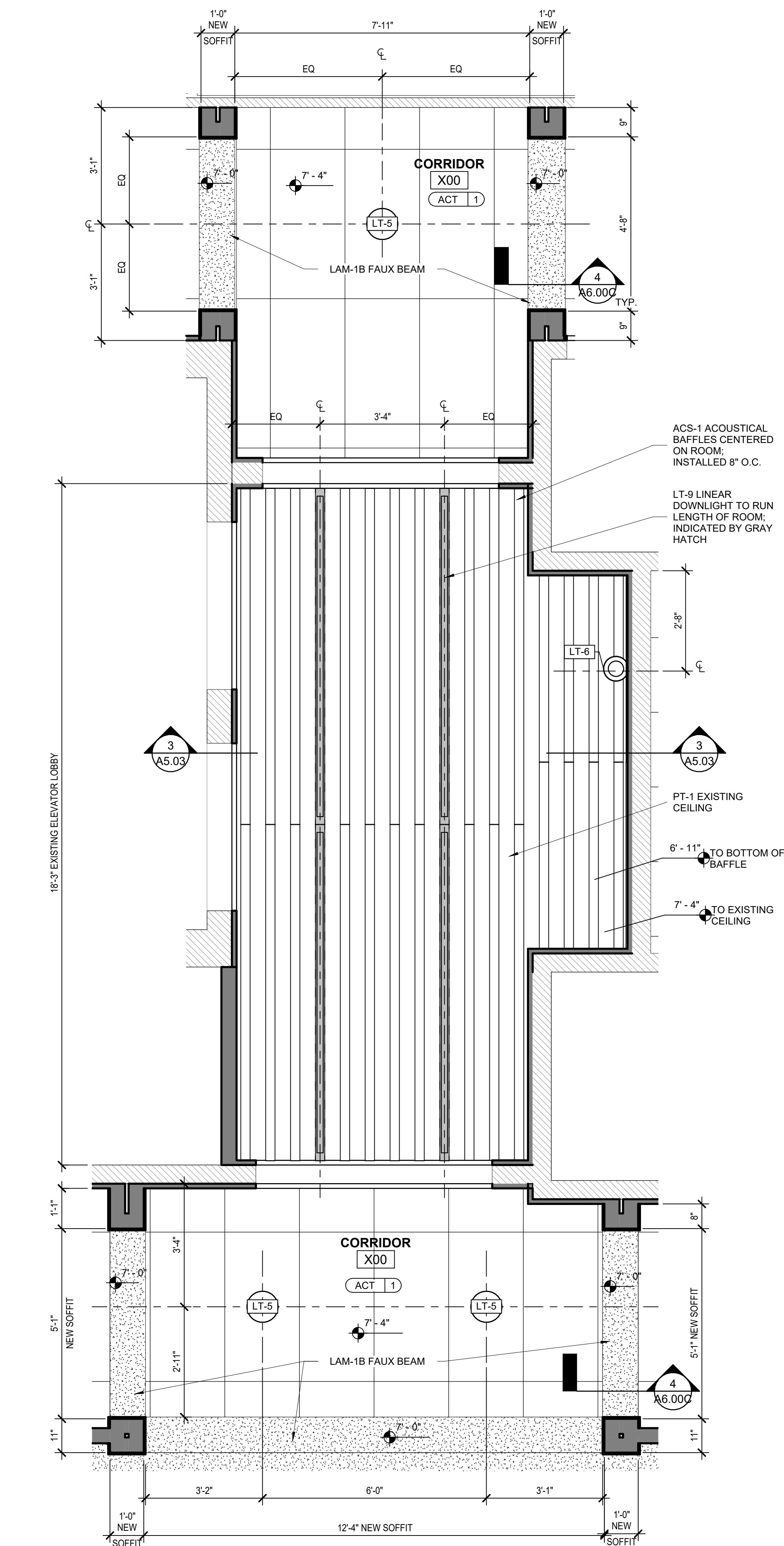
4 ENLARGED COMMUNITY ROOM RCP
SCALE: 1/2" = 1'-0"



2 OVERALL 2ND - 15TH FLOOR REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



3 TYP. 2ND-15TH ELEVATOR LOBBY SOFFIT DETAIL
SCALE: 1/2" = 1'-0"



1 OVERALL 2ND - 15TH FLOOR REFLECTED CEILING PLAN
SCALE: 1/2" = 1'-0"



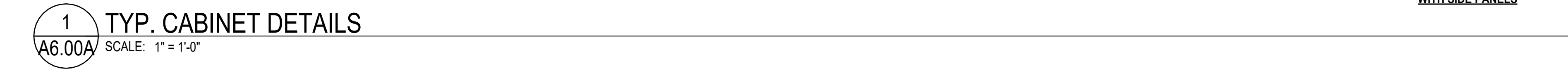
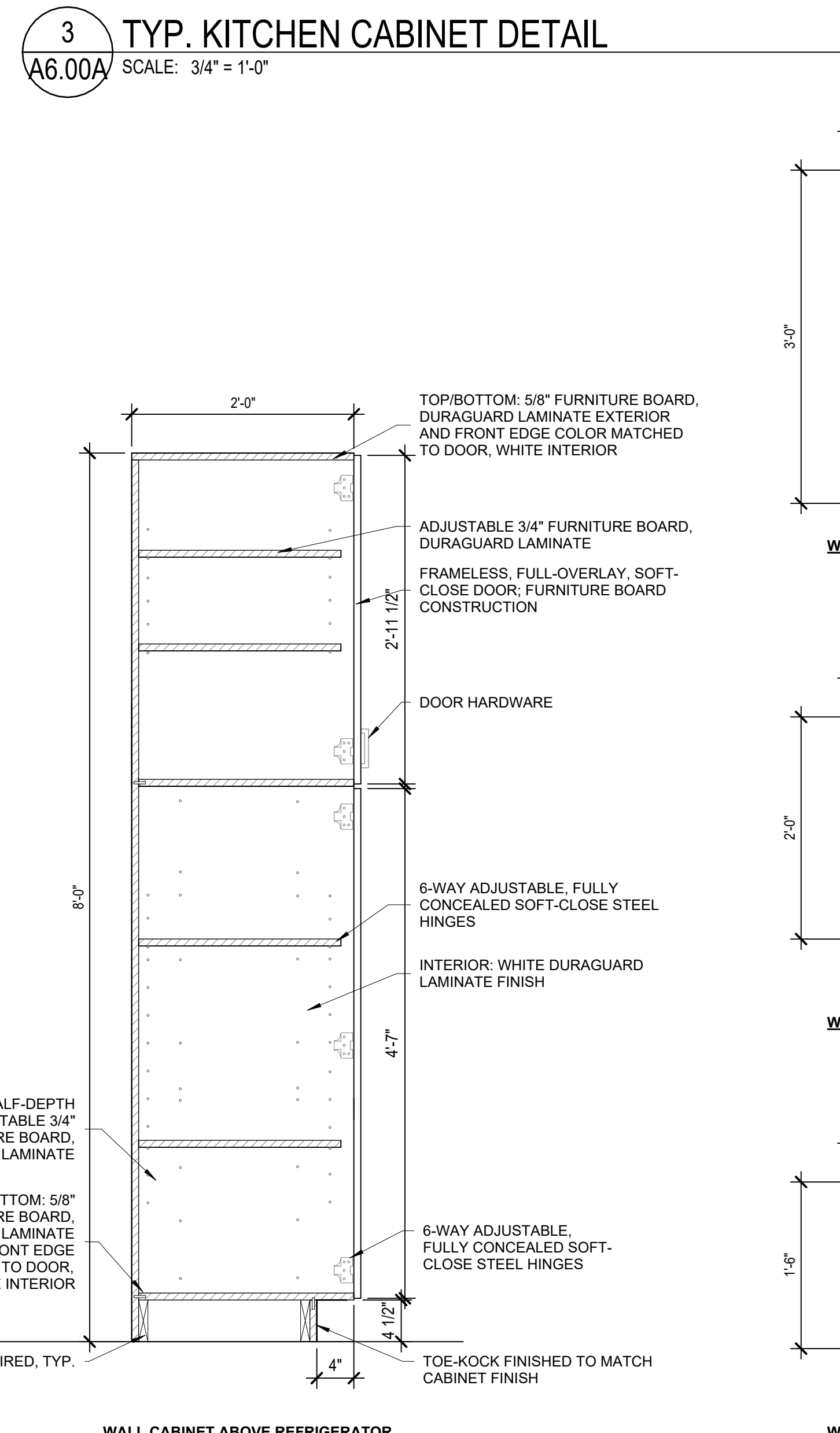
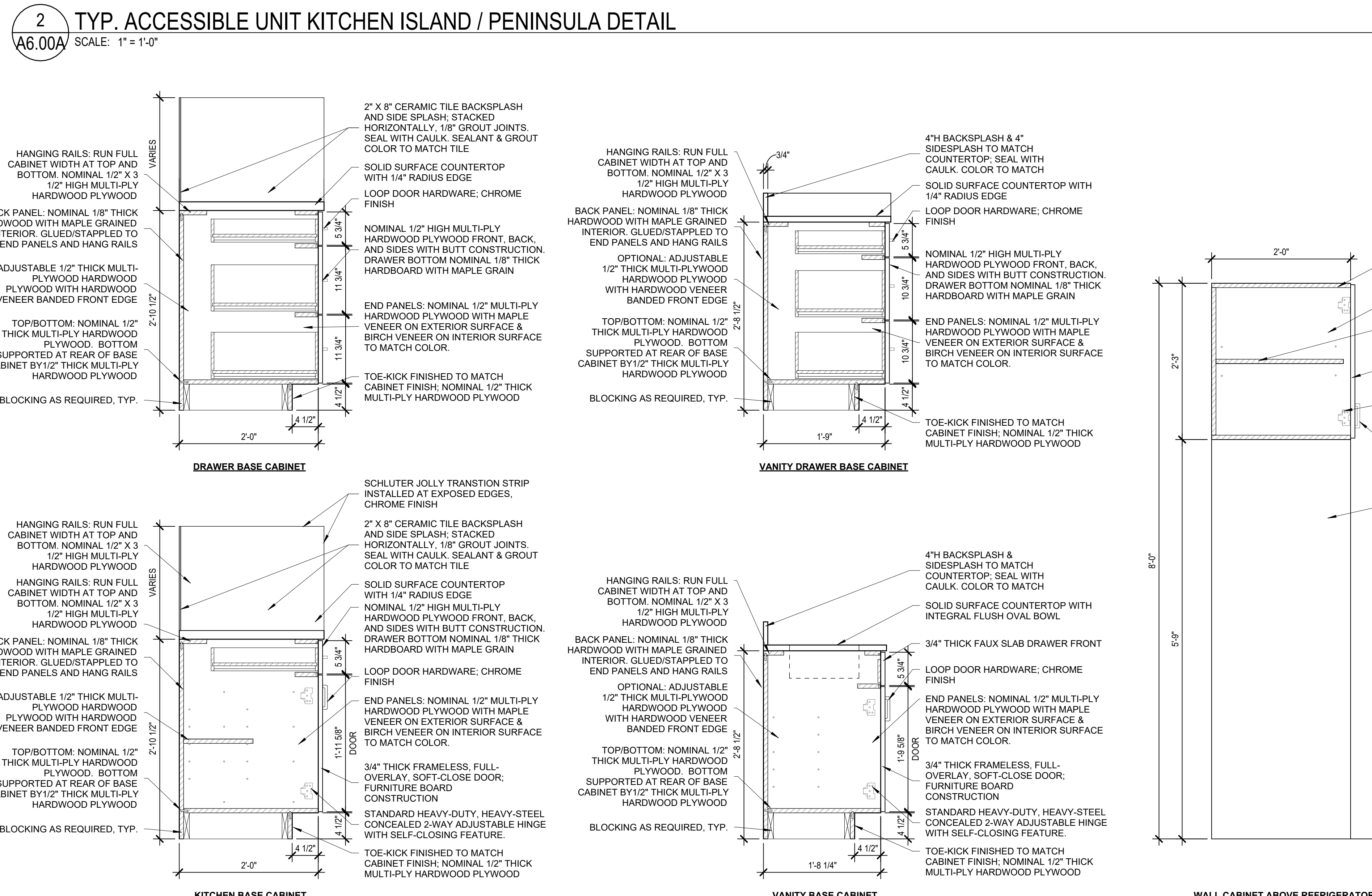
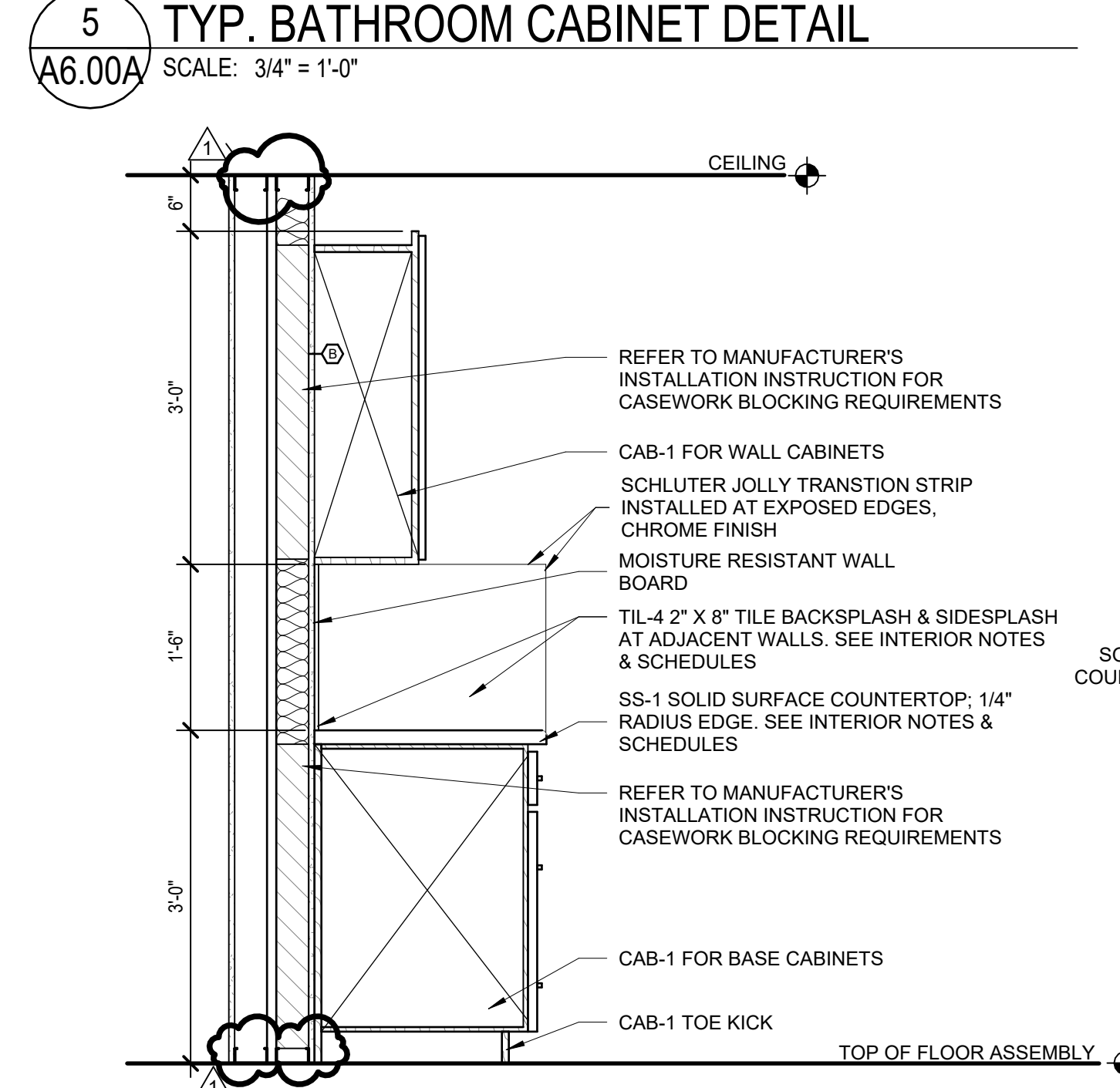
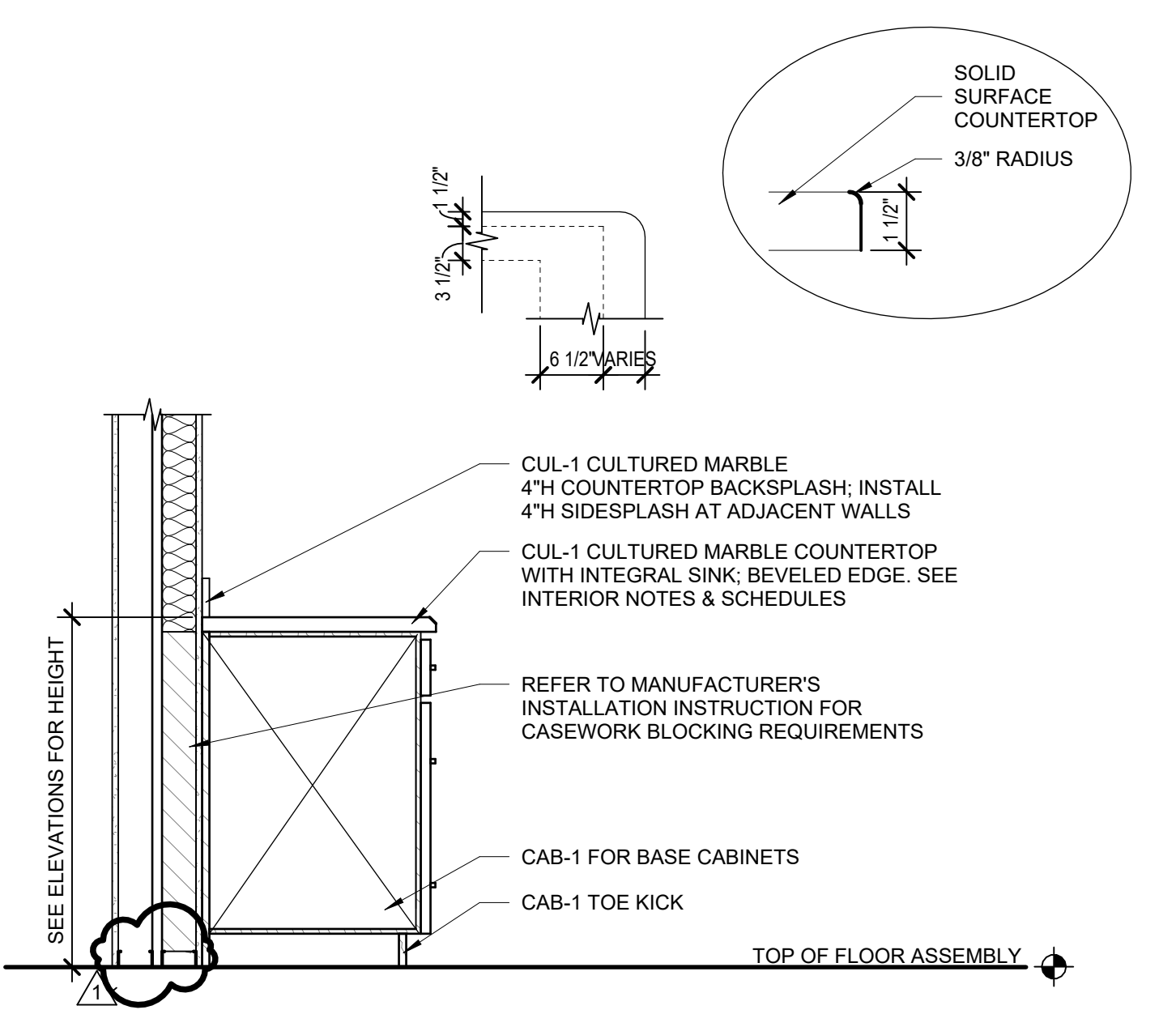
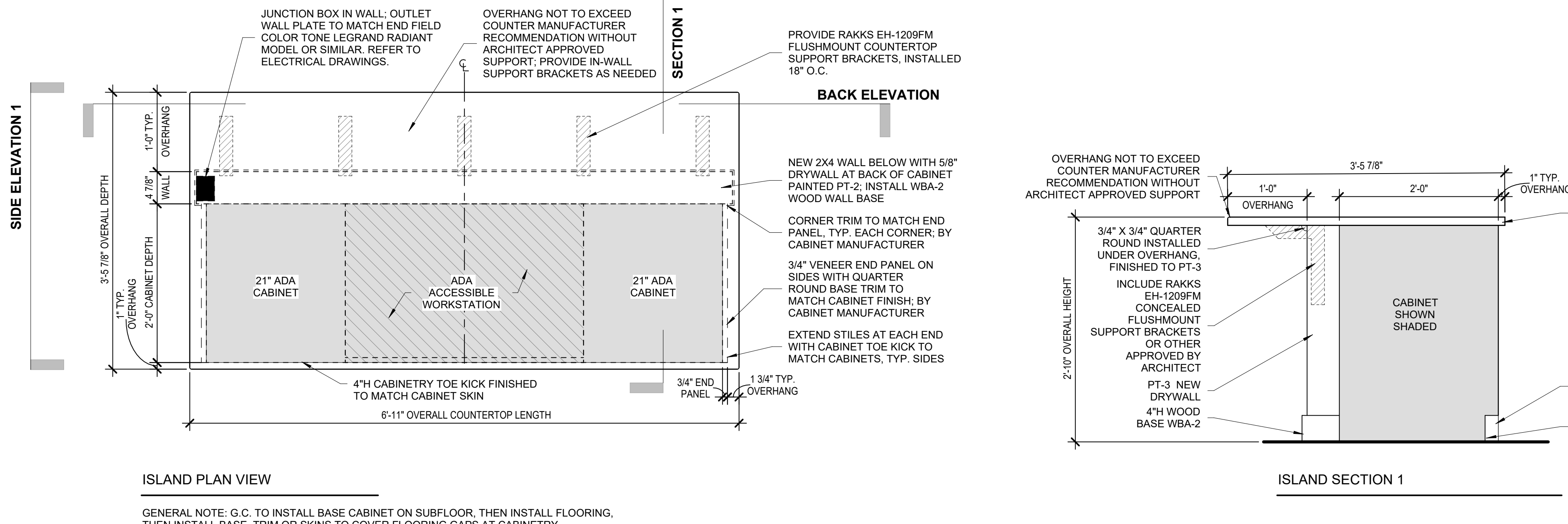
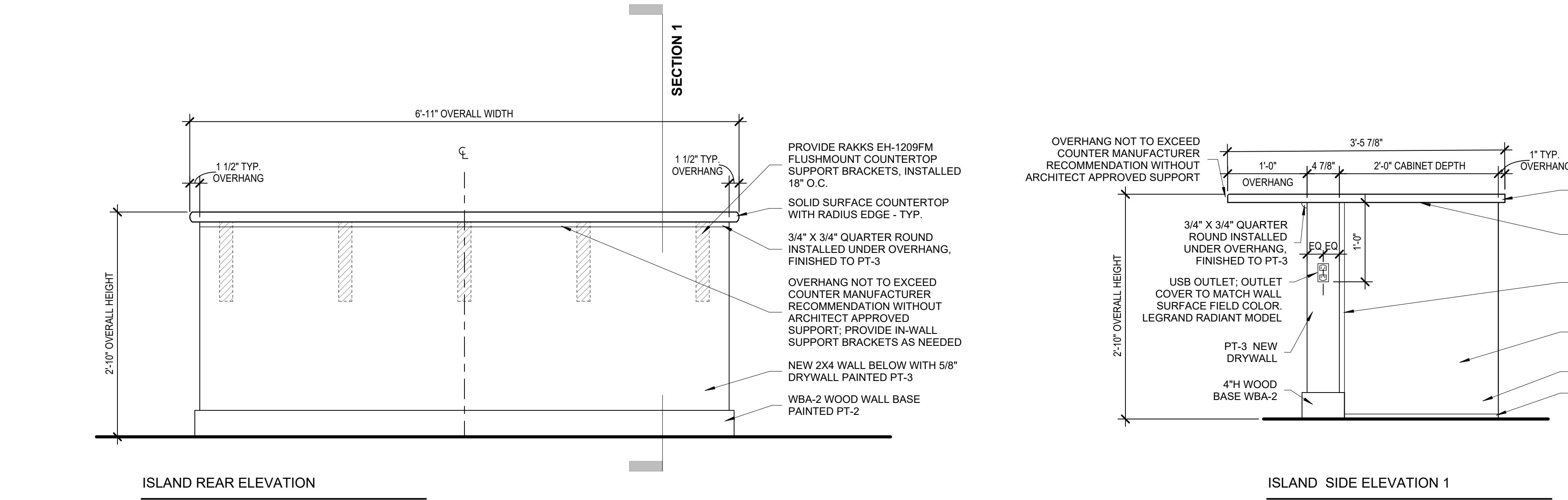
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1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No. 23.47
OVERALL 2ND FLOOR - PENTHOUSE LEVEL REFLECTED CEILING PLAN
A5.03

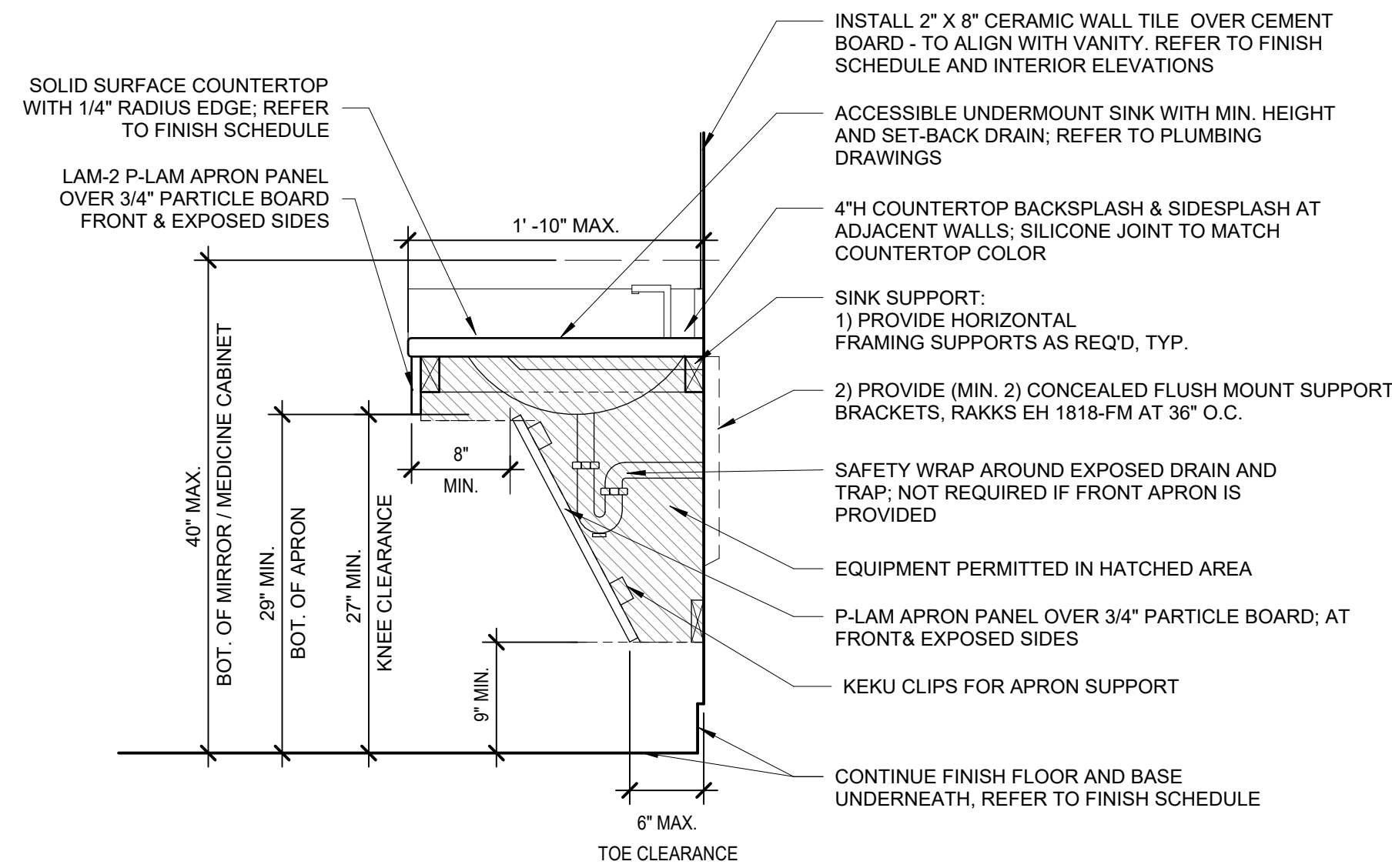
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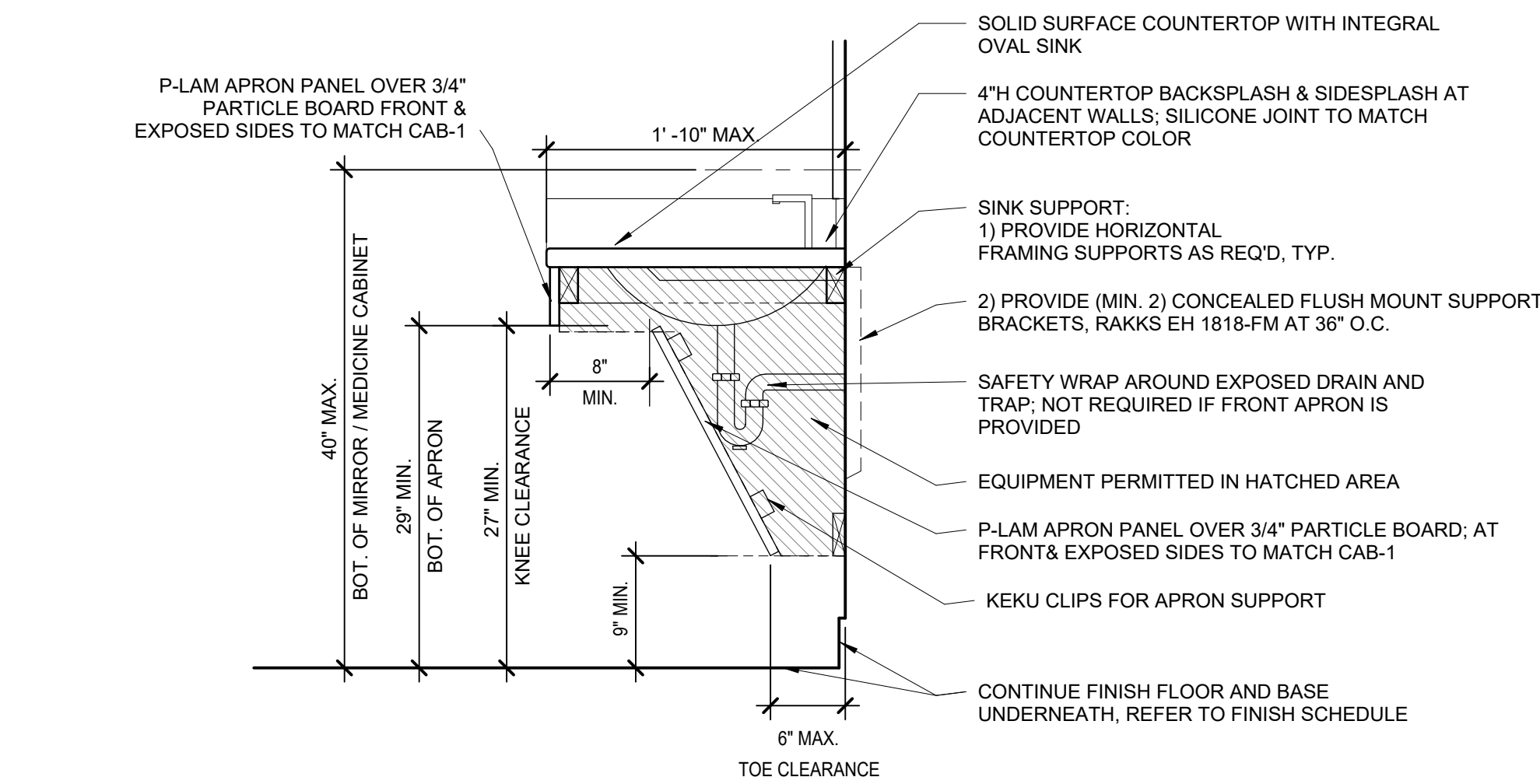
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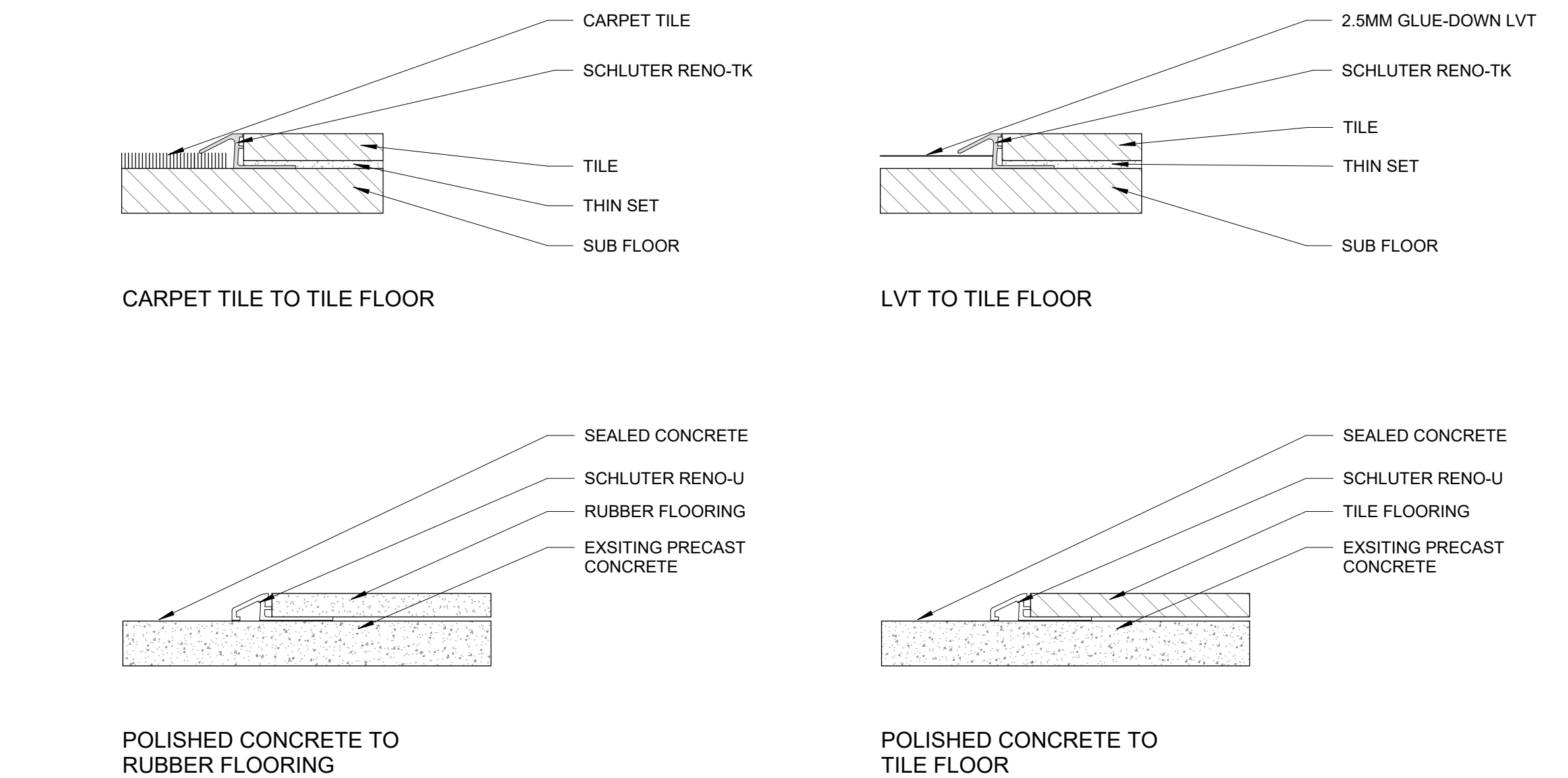
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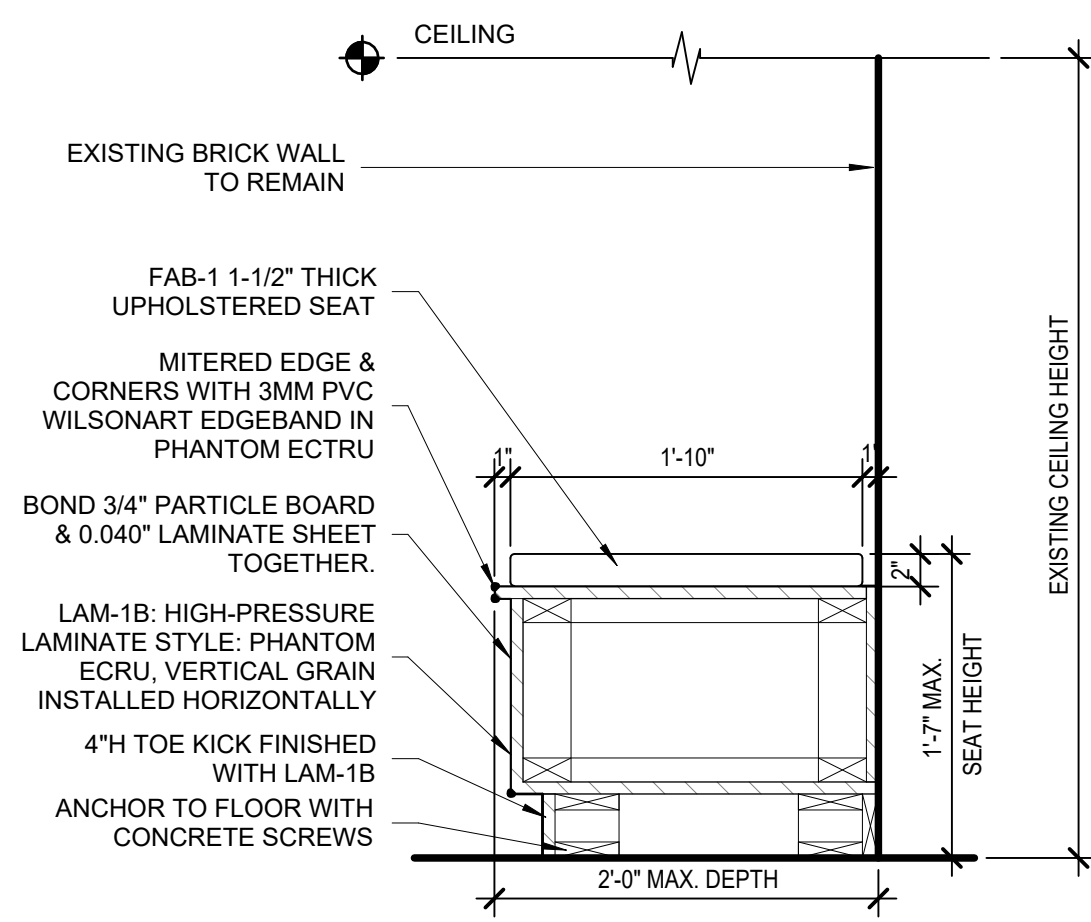
2 ADA RESTROOM PANEL
A6.00B SCALE: 1" = 1'-0"



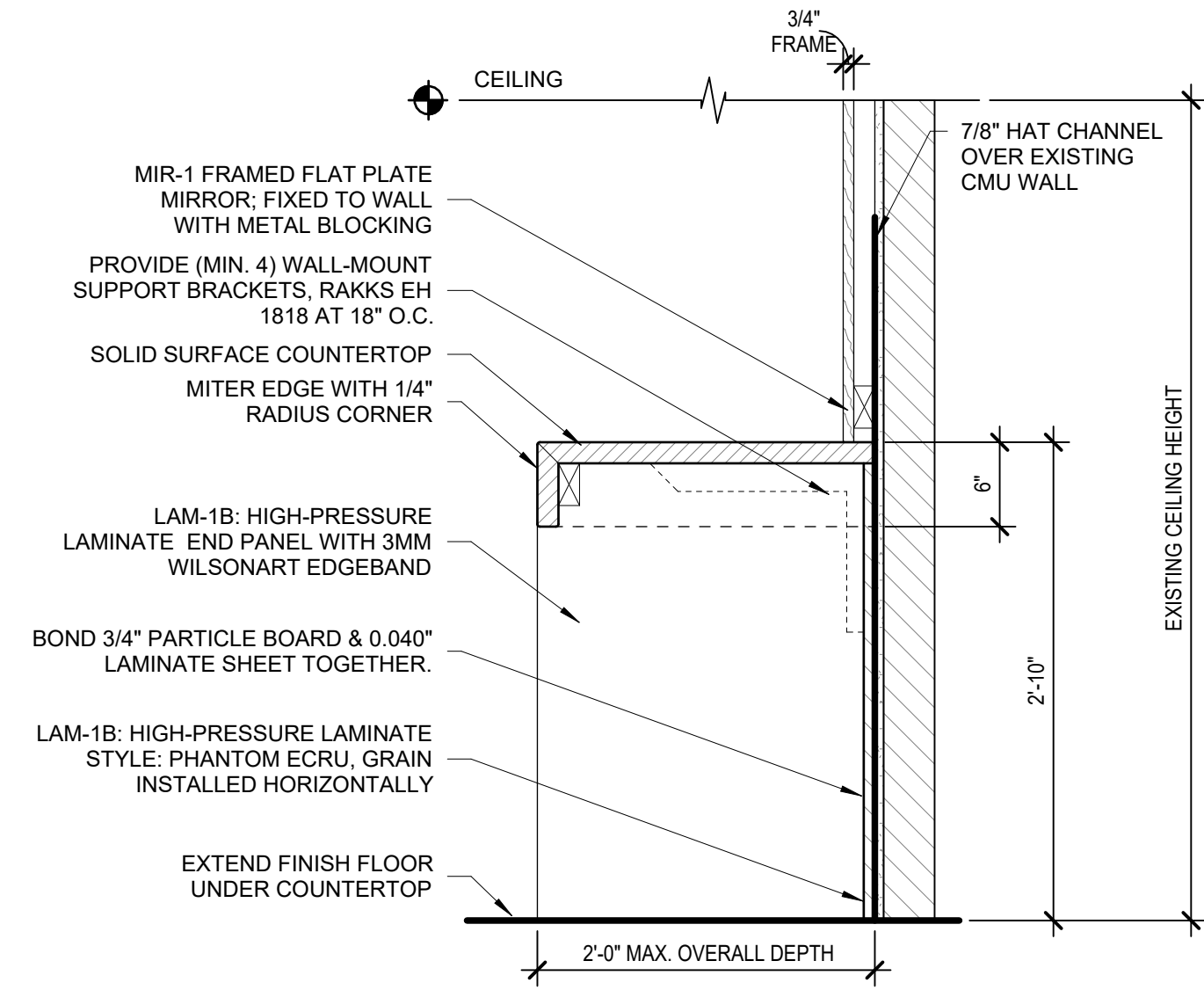
1 TYP. ADA UNIT BATHROOM VANITY
A6.00B SCALE: 1" = 1'-0"



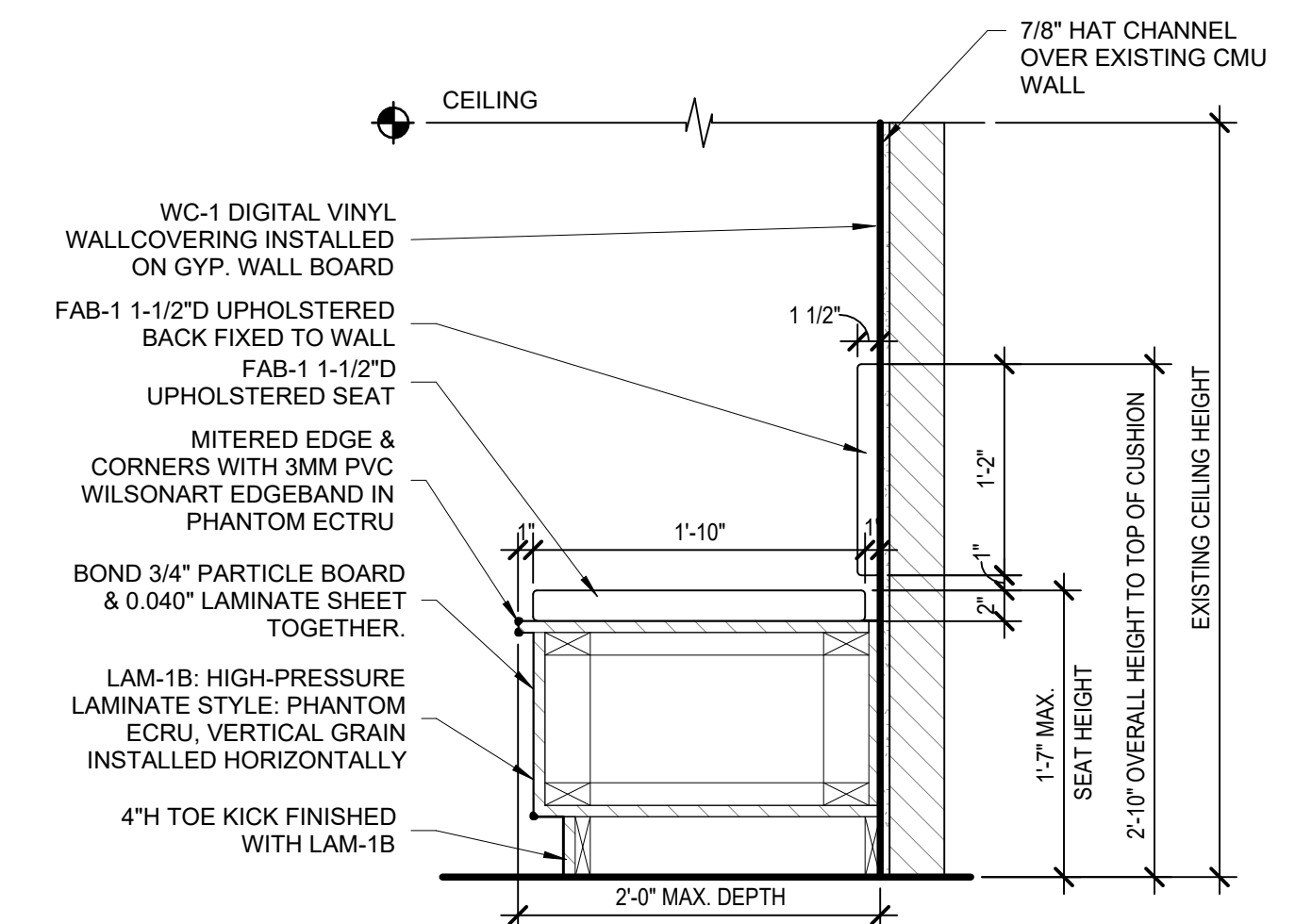
6 TRANSITION DETAILS
A6.00B SCALE: 6" = 1'-0"



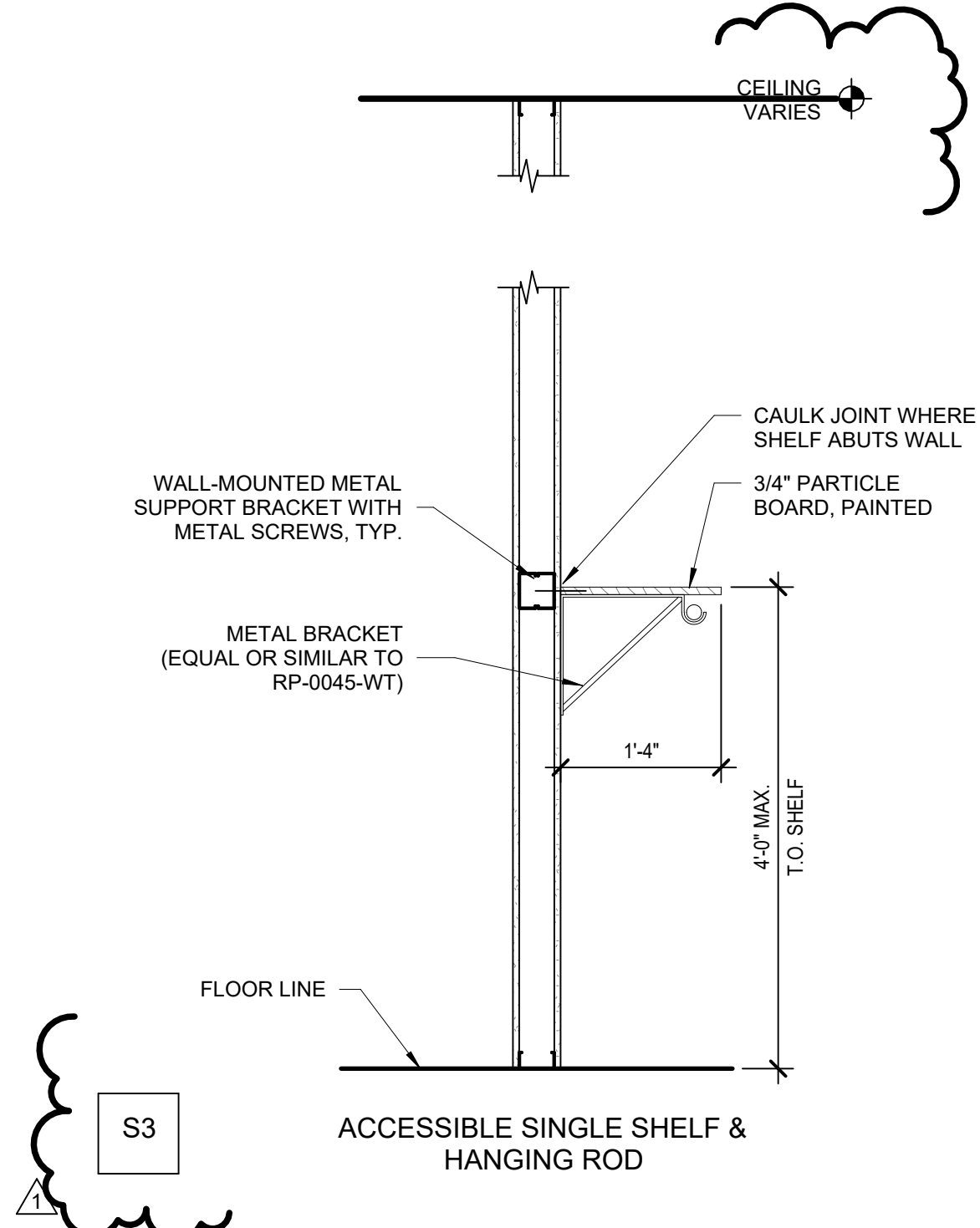
5 SEATING AREA BENCH
A6.00B SCALE: 1" = 1'-0"



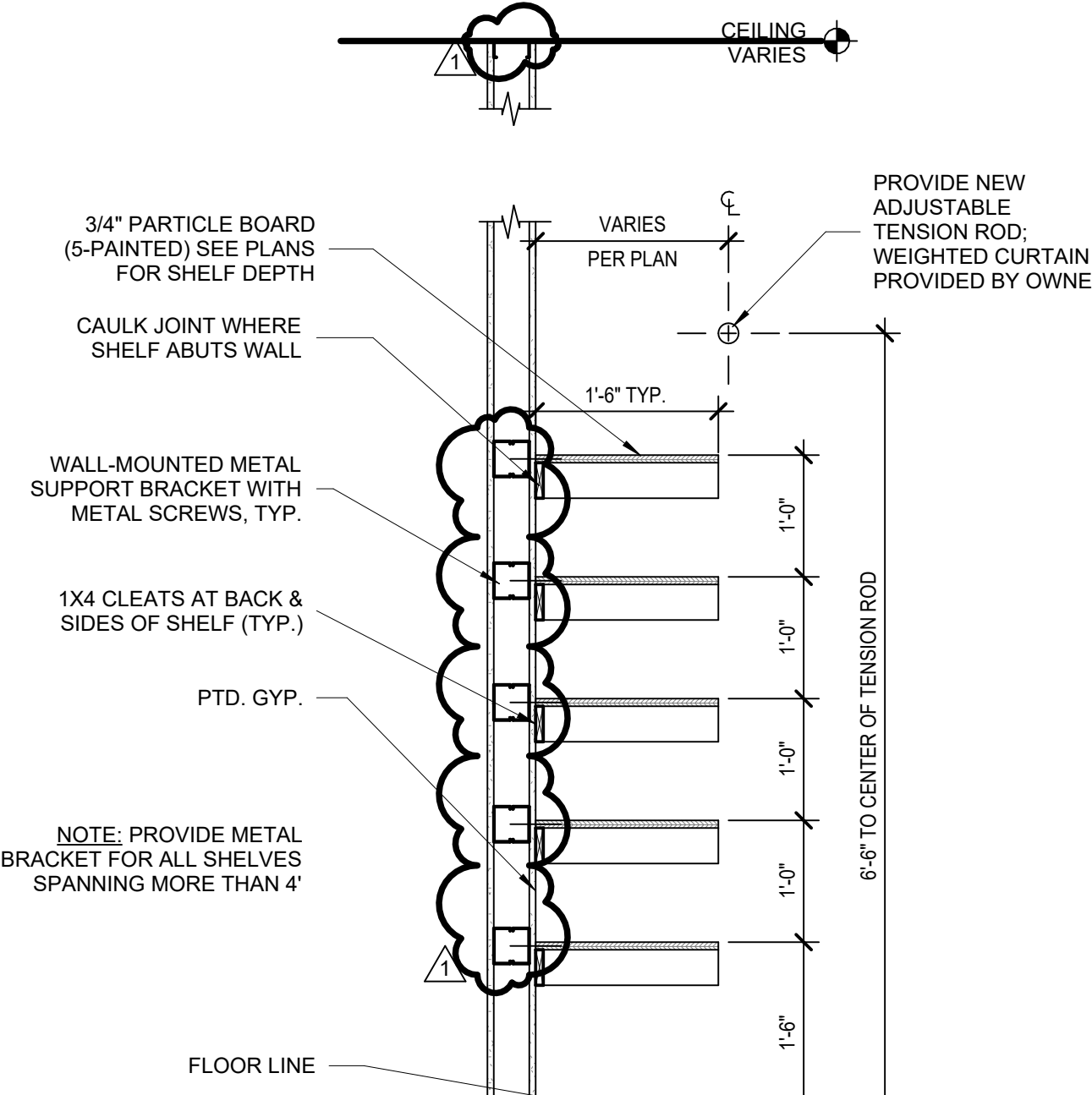
4 ELEVATOR LOBBY COUNTERTOP
A6.00B SCALE: 1" = 1'-0"



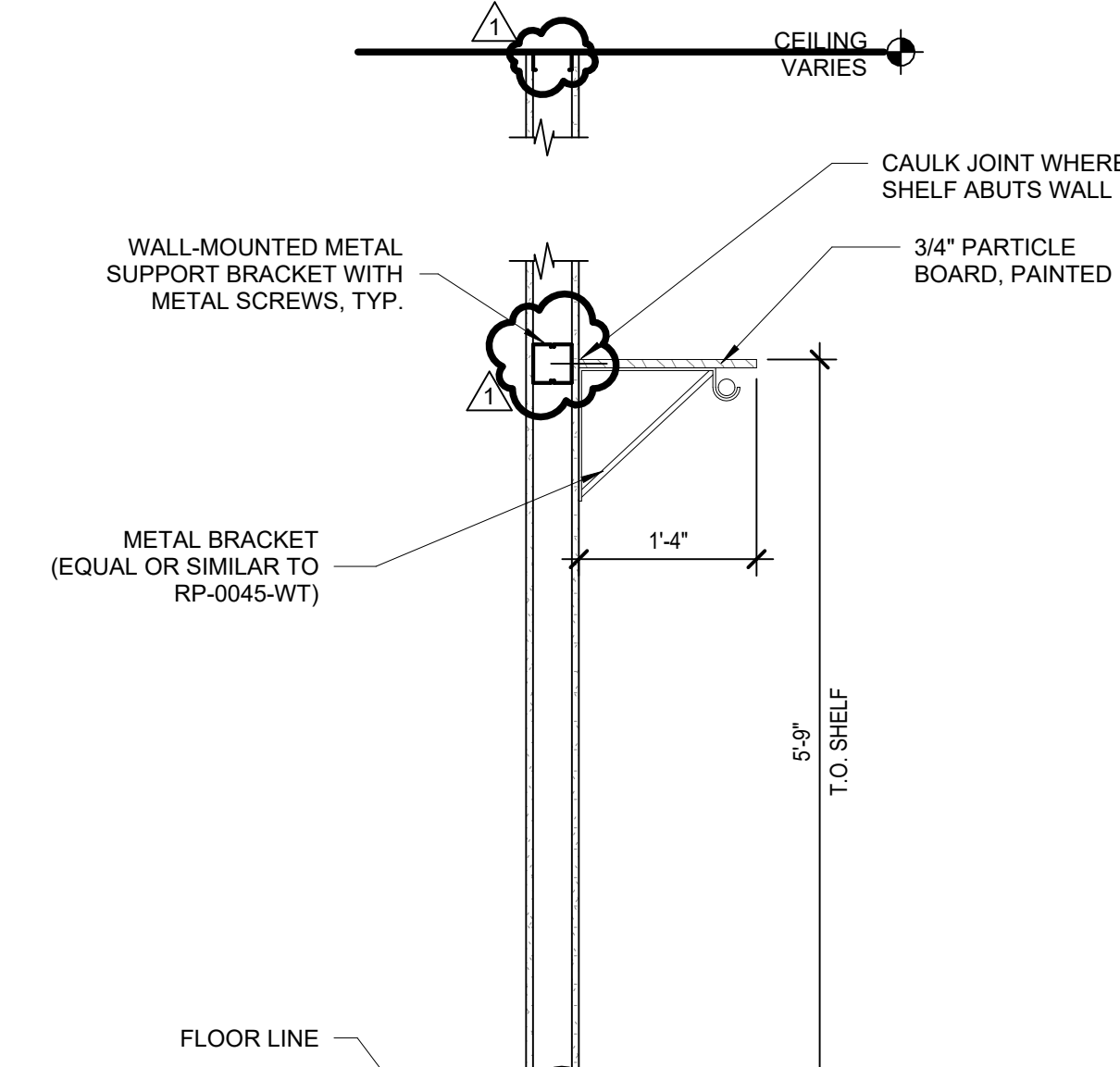
3 ELEVATOR LOBBY BENCH
A6.00B SCALE: 1" = 1'-0"



S3 ACCESSIBLE SINGLE SHELF & HANGING ROD



S2 DOUBLE CLEATS, SINGLE 'SCREW DOWN' SHELF & REMOVABLE ROD @ LOWER CLEAT (ACCESSIBLE)



S1 SINGLE SHELF & HANGING ROD



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
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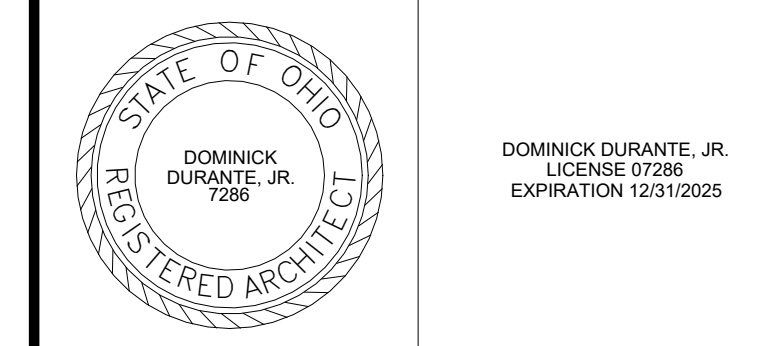
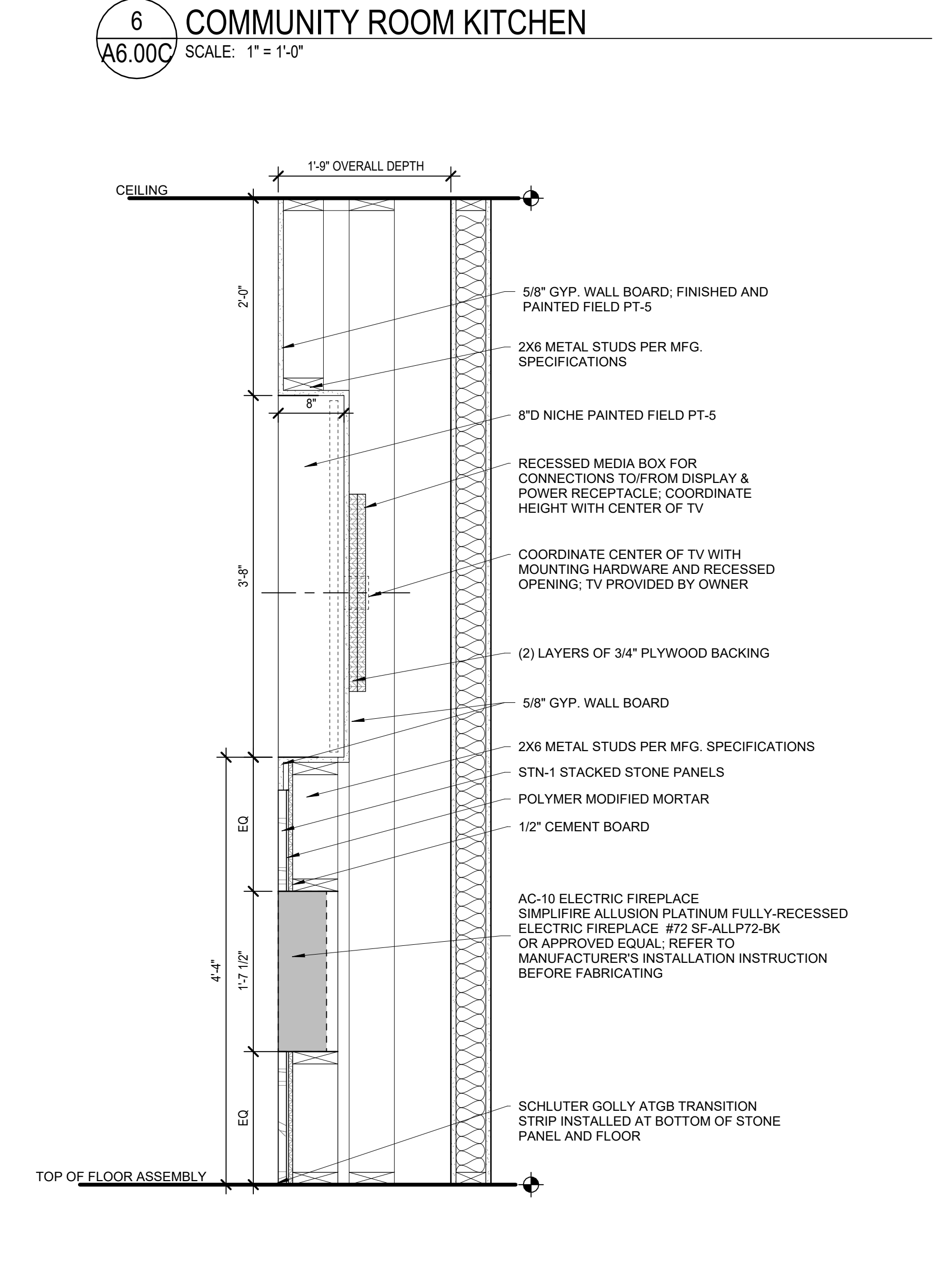
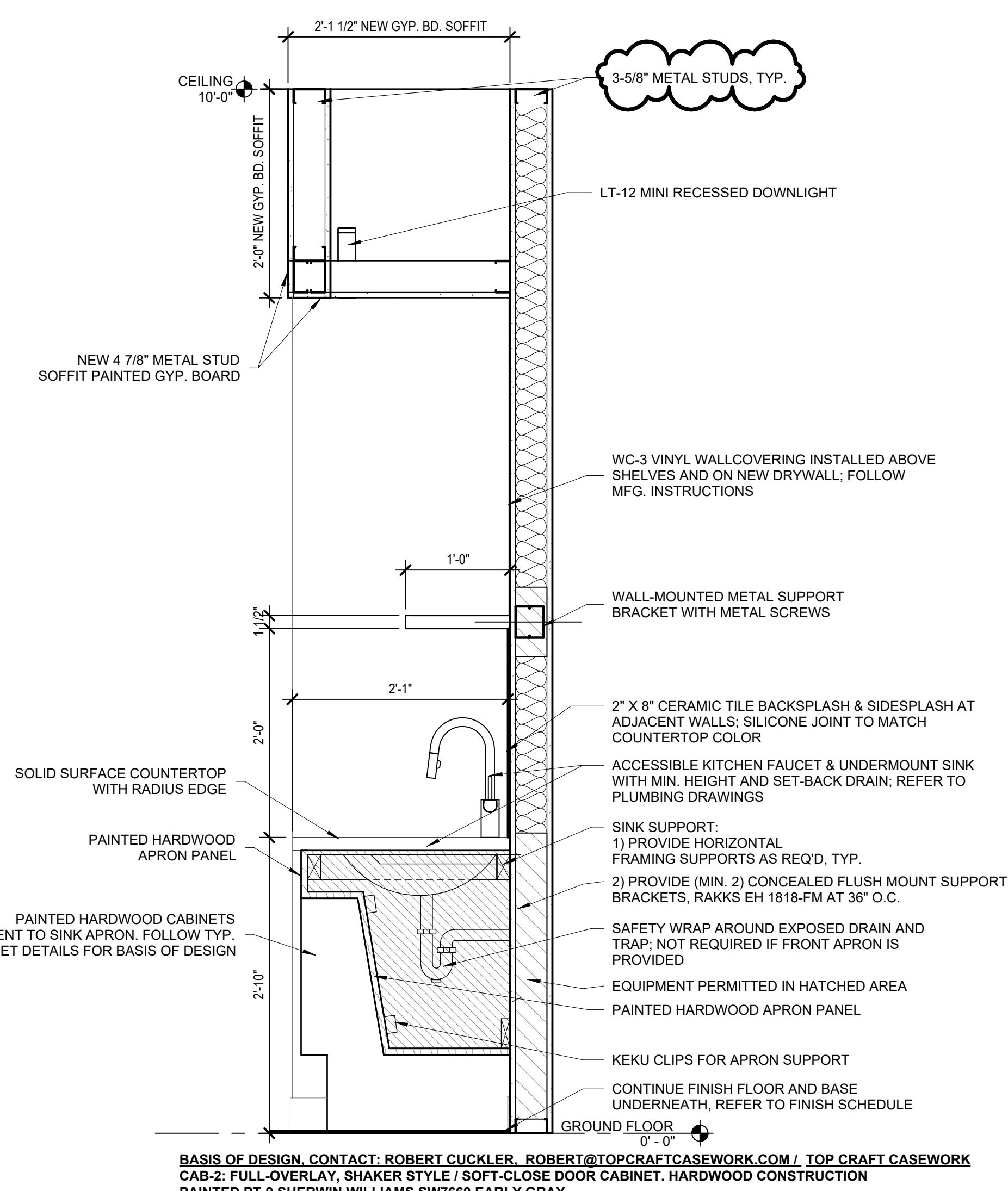
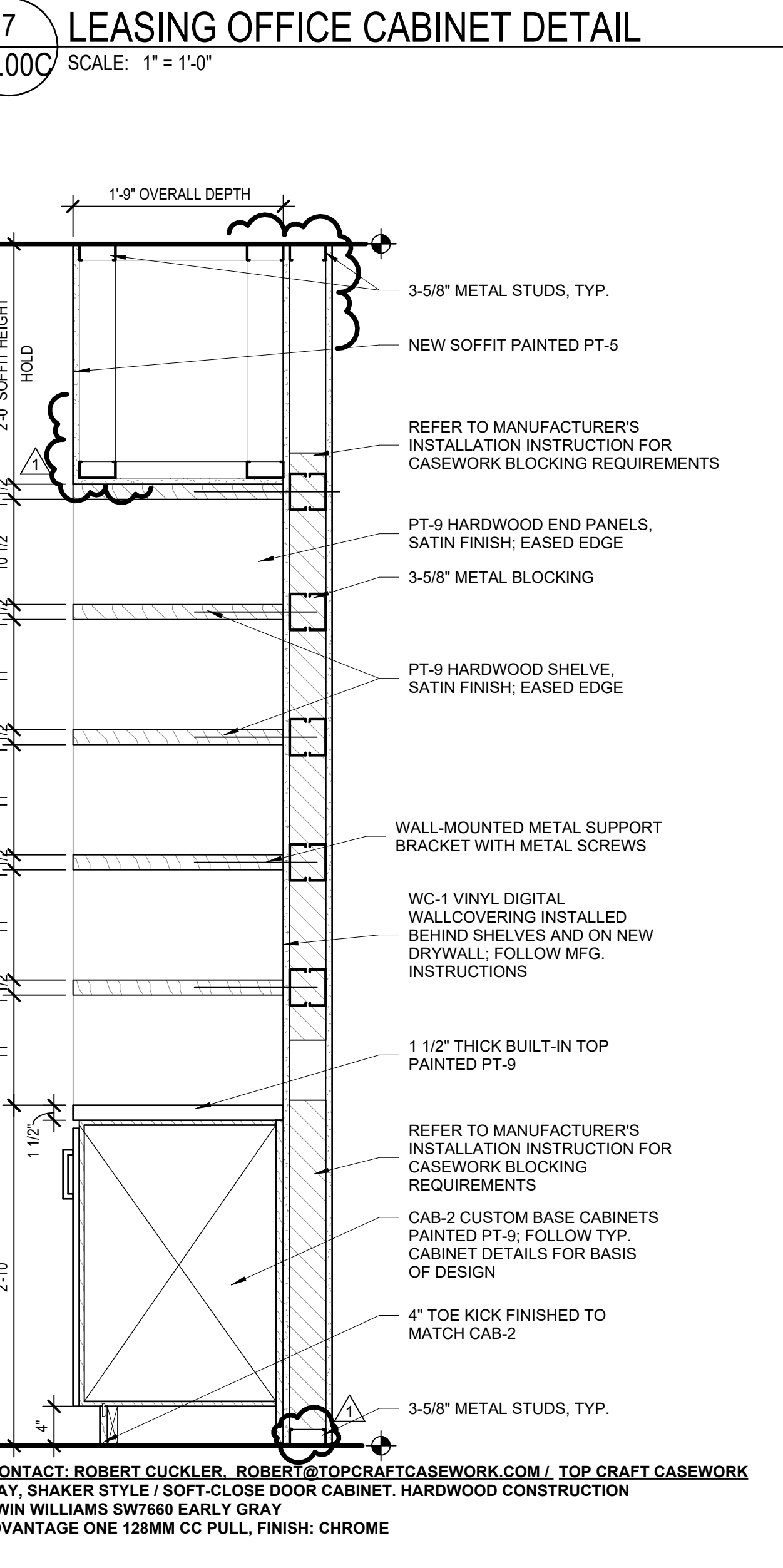
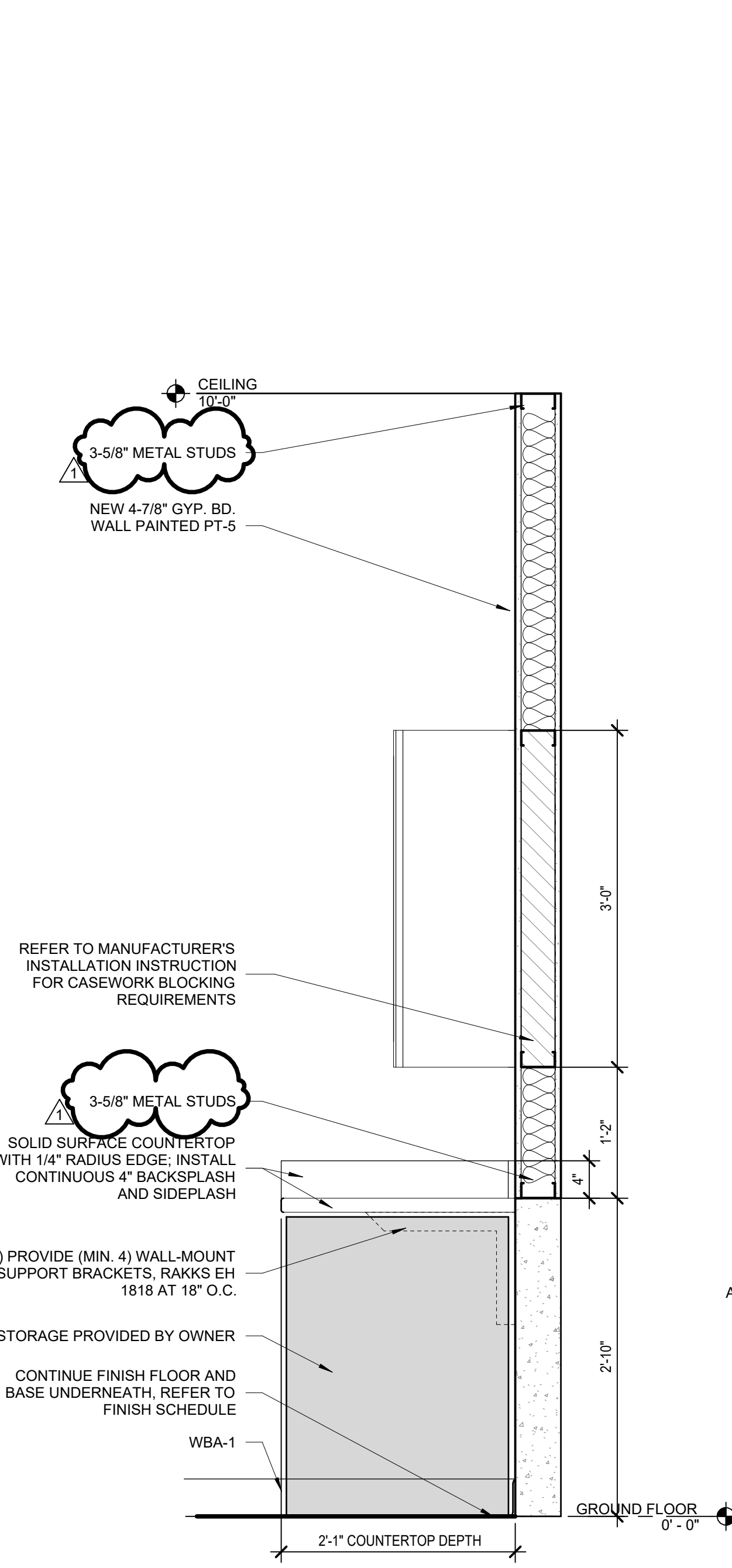
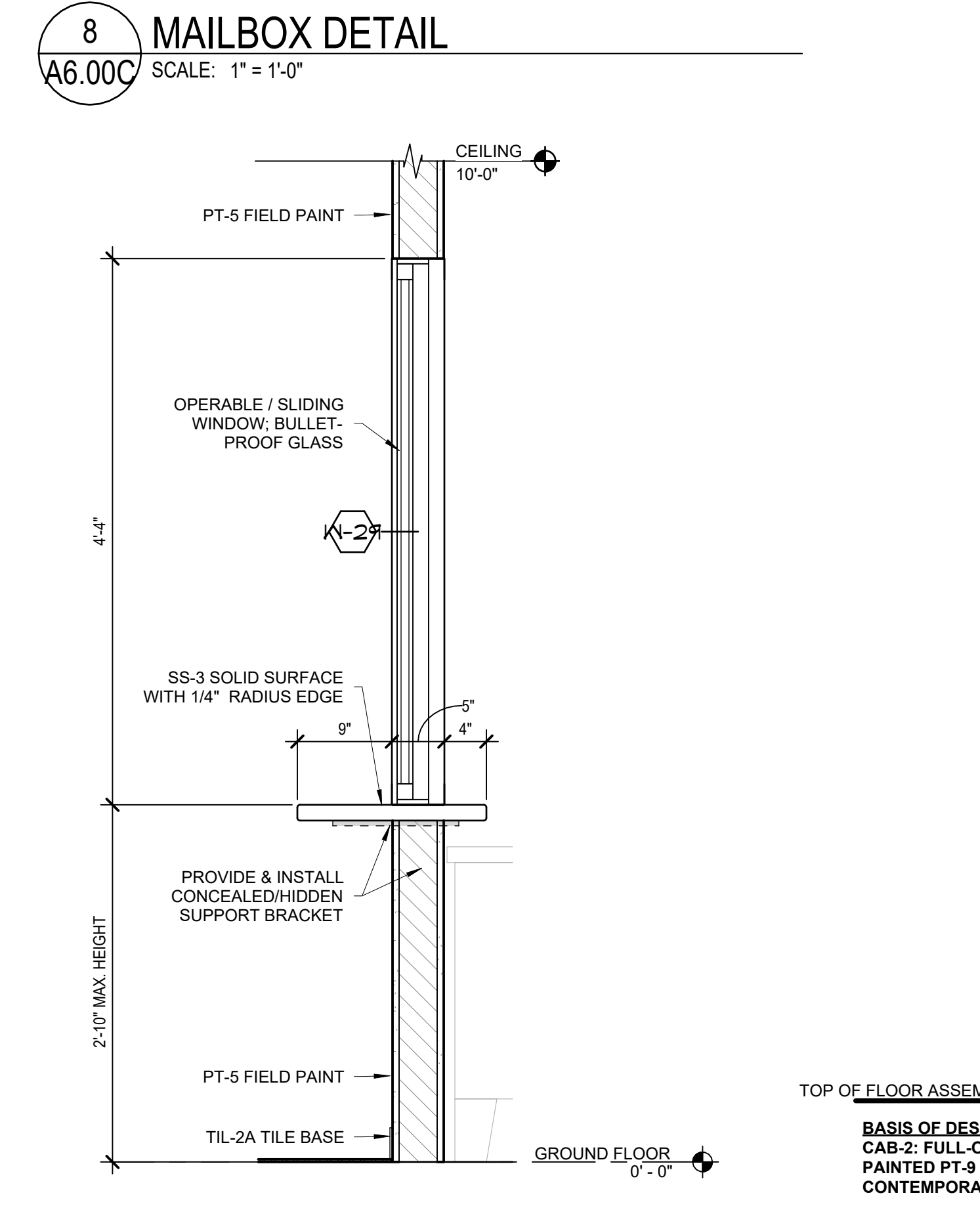
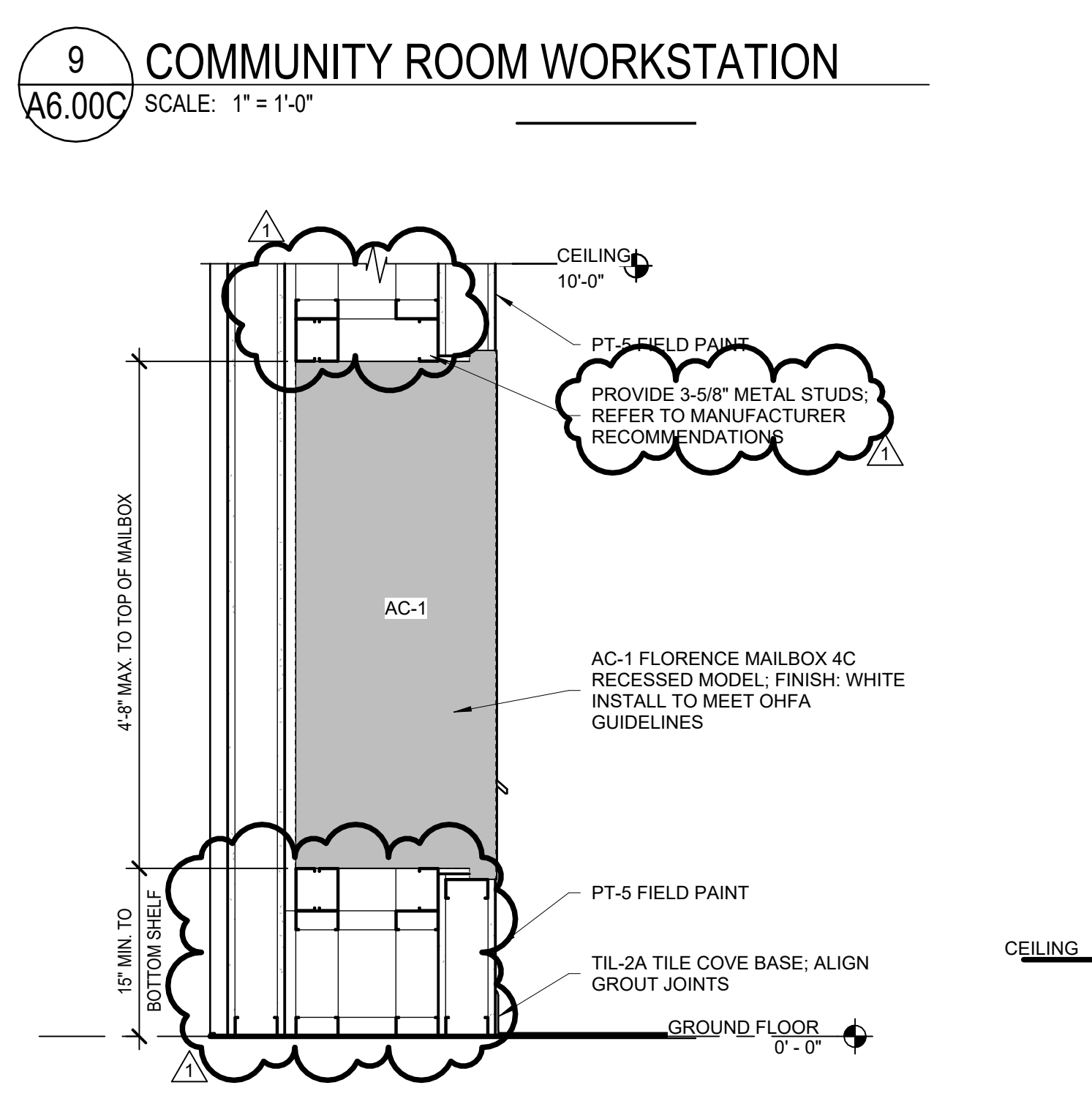
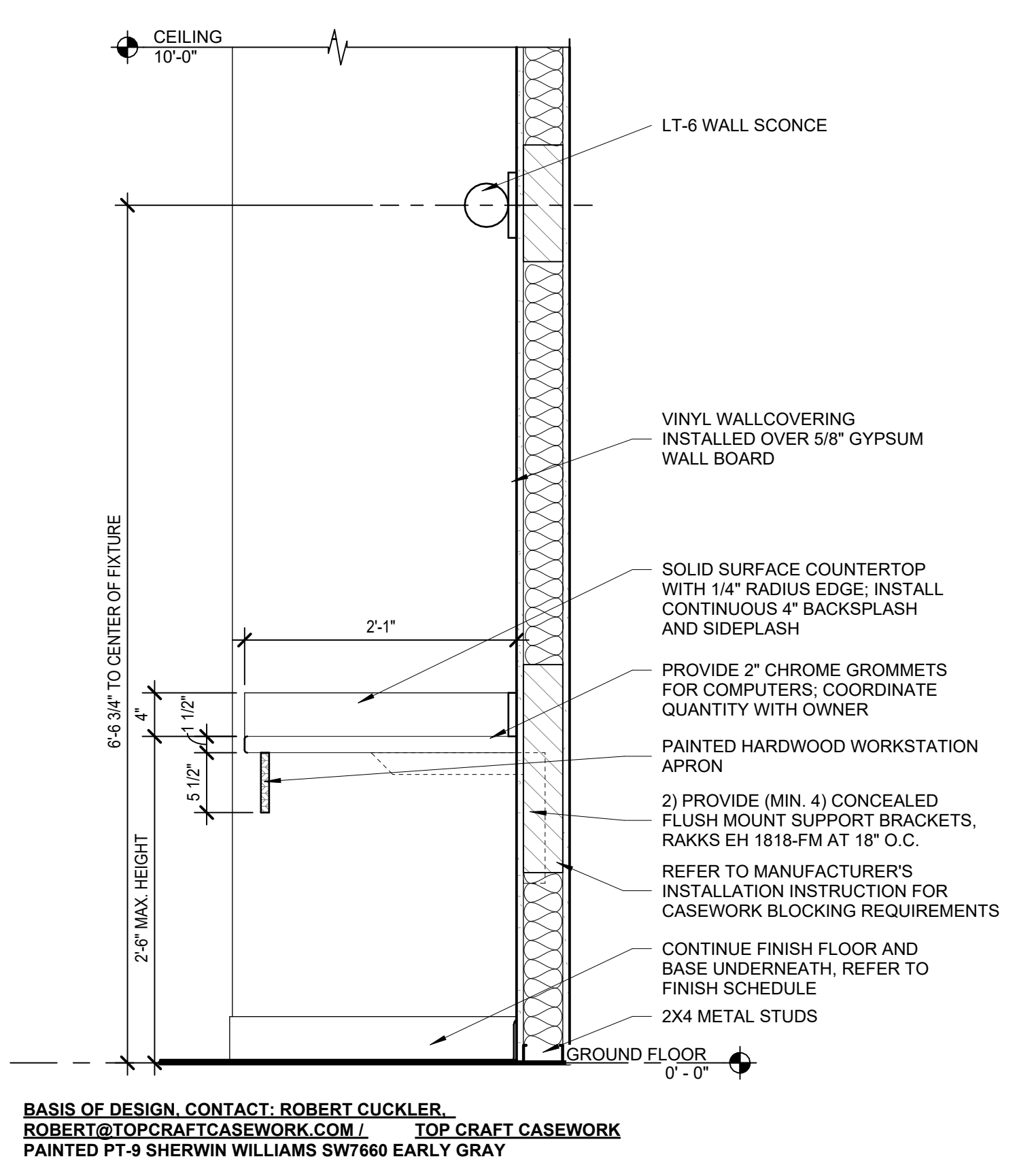
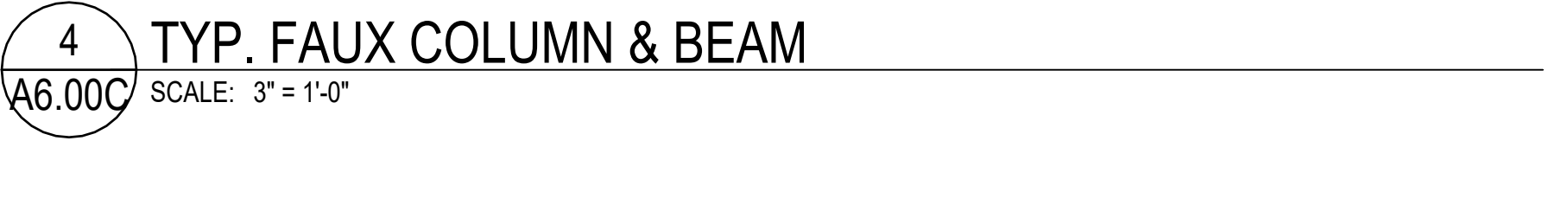
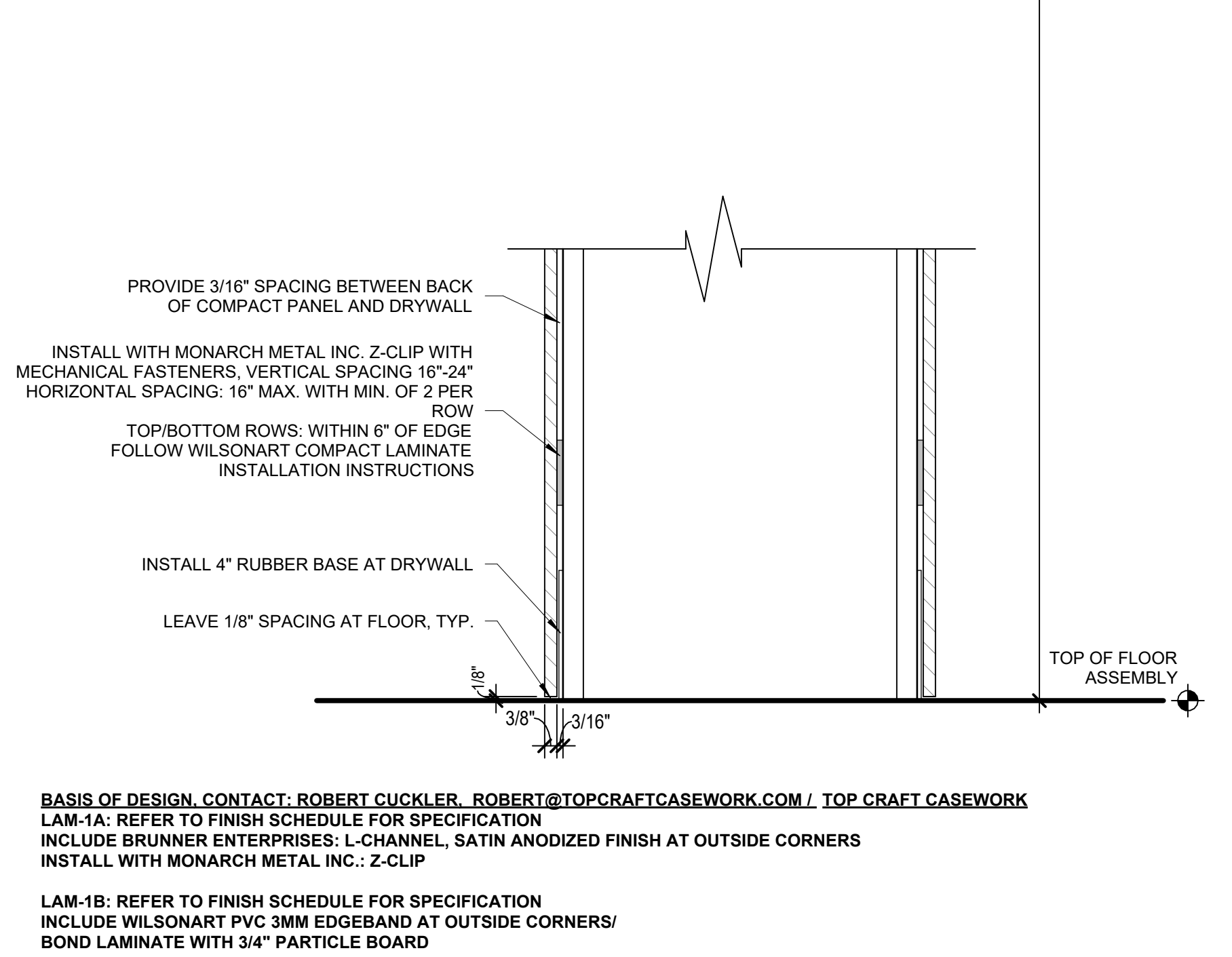
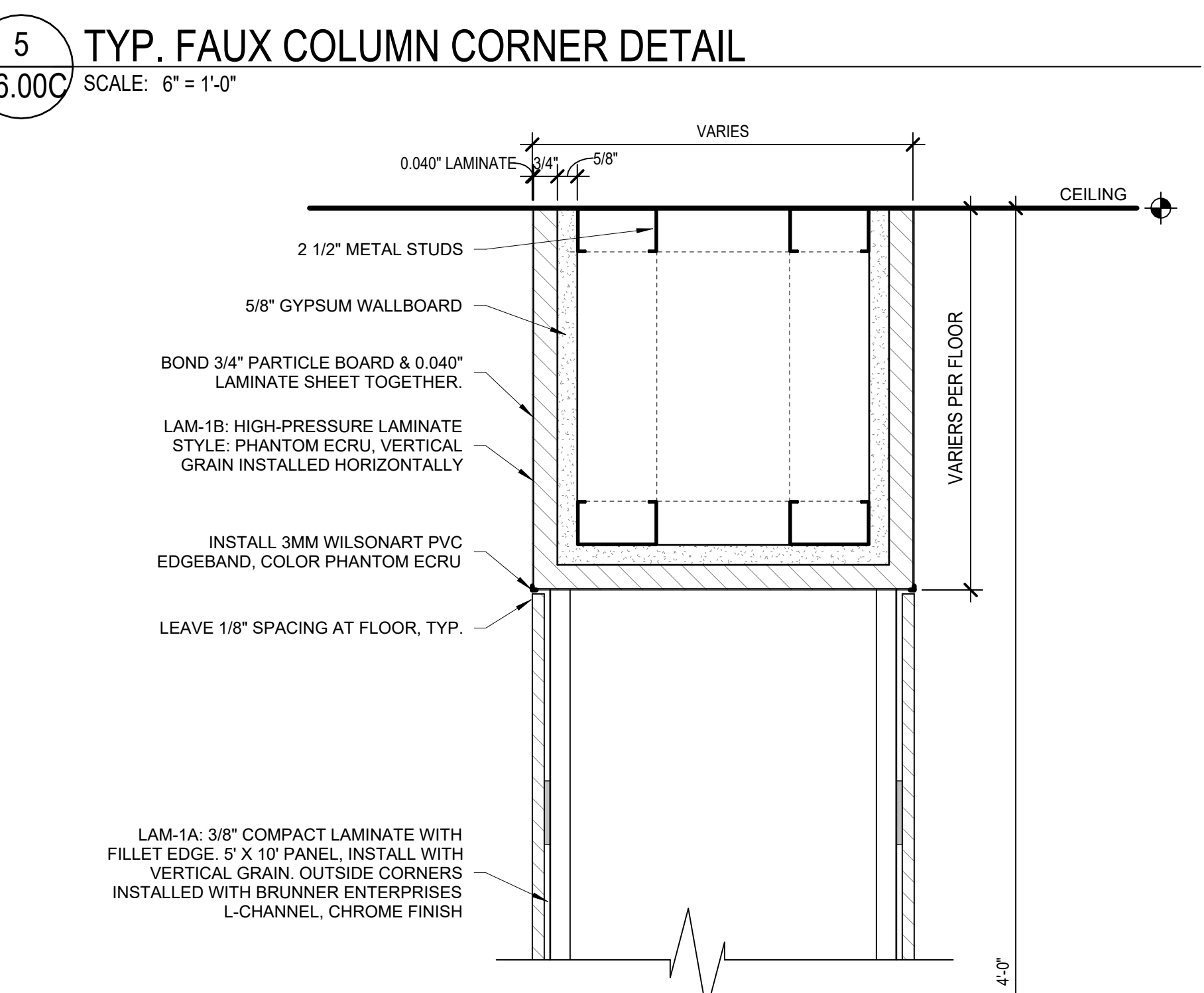
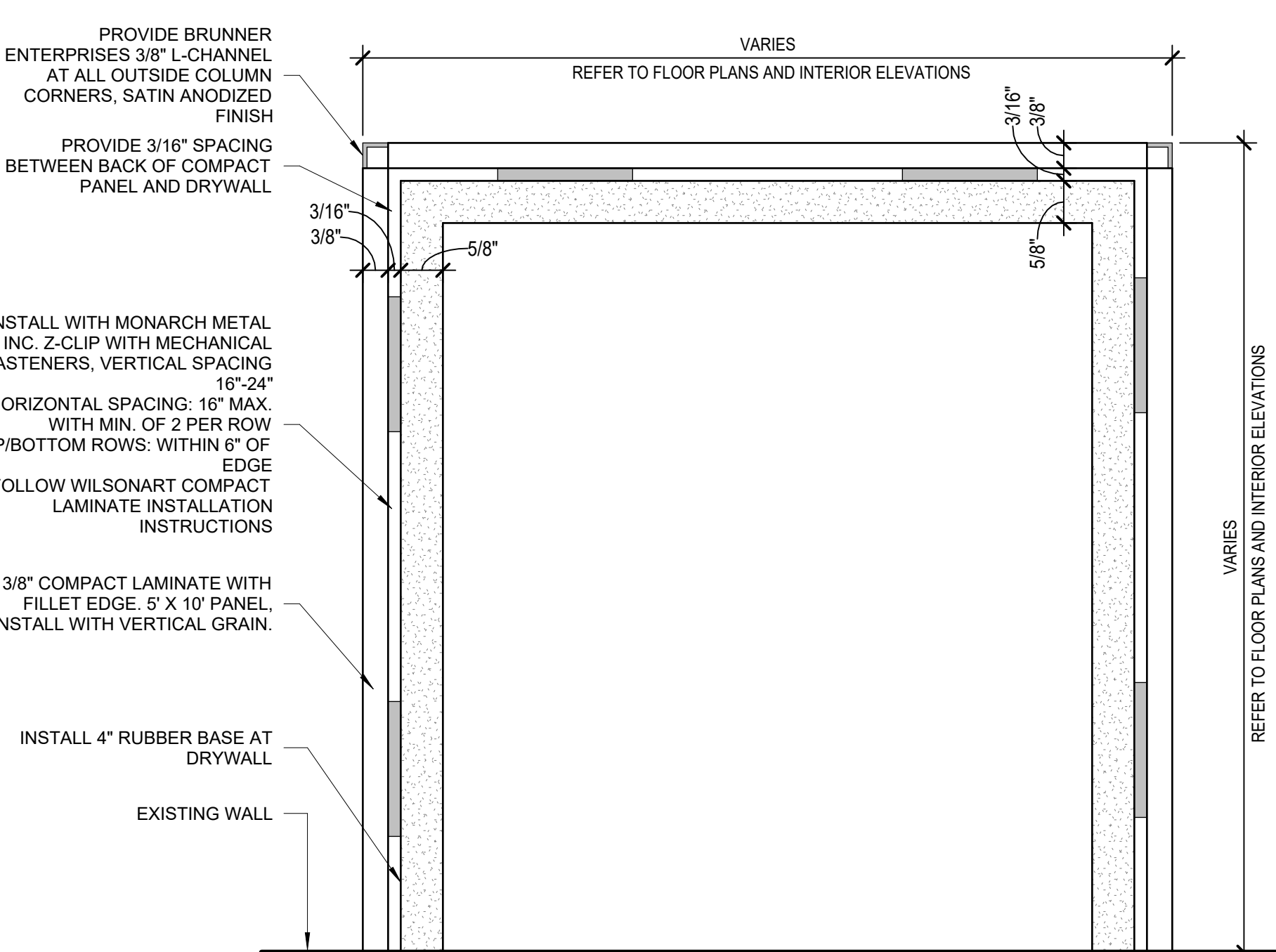
LDA Project No.23.47

INTERIOR DETAILS

A6.00B

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KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL 
TYPICAL UNLESS NOTED OTHERWISE



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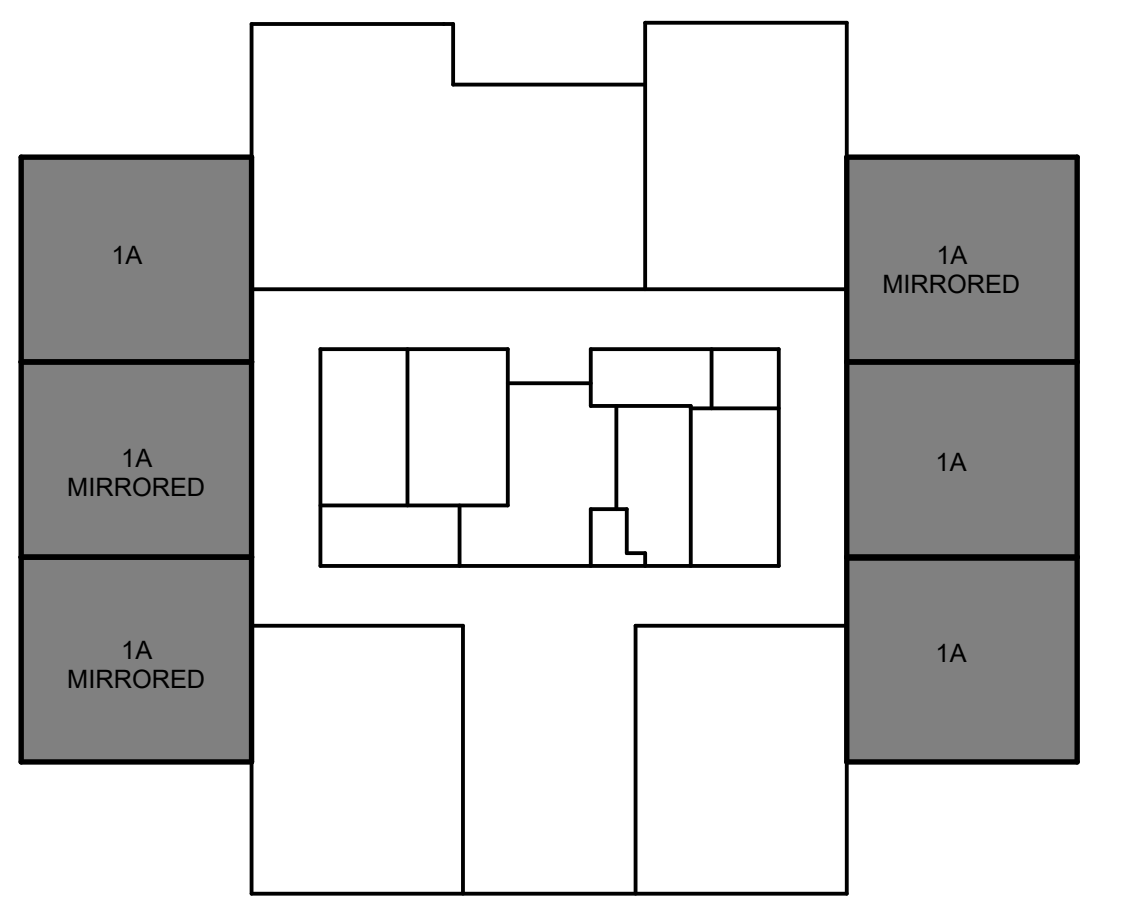
GENERAL NOTES - ENLARGED UNIT PLANS

- REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
 - REFER TO SHEET G0.03 FOR ACCESSIBLE DETAILS TO FOLLOW.
 - THE FOLLOWING SCOPE OF WORK IS FOR ALL TYPICAL UNITS UNLESS OTHERWISE NOTED; REFER TO PLANS FOR ADDITIONAL SCOPE.
- GENERAL UNIT:**
- REPAIR DRYWALL & WATER DAMAGE THROUGHOUT UNITS. INSULATE WHERE POSSIBLE.
 - PAINT ALL WALLS (EGGSHELL FINISH), CEILING & SOFFITS (FLAT FINISH), AND DOORS & TRIM (SATIN FINISH) WITH ONE COAT PRIMER AND 2 COATS PAINT.
 - PROVIDE ACCENT WALL IN LIVING. REFER TO FINISH SCHEDULE & ENLARGED UNIT PLANS.
 - ALL DRYWALL WALLS AND CEILING ARE TO RECEIVE LEVEL 1 FINISH PER STM C840 STANDARDS. USE TUFF-HIDE AT ALL JOINTS.
 - PROVIDE NEW ROOM SIGNAGE W/ BRAILLE AT CORRIDOR ON DOOR LEVER SIDE.
 - PROVIDE NEW GLUE-DOWN VINYL PLANK FLOORING THROUGHOUT UNIT - EXCEPT BATHROOM. PREP FLOOR PER MANUFACTURER'S INSTALL INSTRUCTIONS.
 - REMOVE ALL EXISTING FLOORING (CARPET, TILE, VCT, ETC.) THROUGHOUT UNIT DOWN TO CONCRETE SUBFLOORING.
 - PROVIDE NEW WOOD BASE THROUGHOUT - EXCEPT BATHROOMS. REFER TO FINISH SCHEDULE WBA-2.
 - REPLACE ALL EXIST. LIGHT FIXTURES, OUTLETS, SWITCHES AND COVER PLATES. NEW SWITCHES, GFCI OUTLETS & COVER PLATES, ETC. TO BE LEGRAND RADIANT IN WHITE. LIGHT FIXTURES TO BE LED.
 - ALL TO BE INSTALLED AT ACCESSIBLE HEIGHTS.
 - PROVIDE NEW HARDWIRED COMBO COSMOK DETECTORS IN ALL UNITS. CONICAL WIRING IN WIRE MOLD AND PAINT TO MATCH CEILING. HVI AND MOBILITY UNITS TO RECEIVE STROBES.
 - INSTALL CARBON MONOXIDE DETECTORS IN ALL UNITS.
 - EXISTING WINDOWS TO REMAIN. REPLACE ALL MINI BLINDS. NEW BLINDS SHALL BE VINYL. INSTALL DOUBLE CURTAIN RODS.
 - INSTALL VENTED CLOSET SHELVING IN ALL CLOSETS (WHITE). TENSION ROD & CURTAINS TO BE INSTALLED ON ALL CLOSET AND PANTRY DOORS (CURTAINS PROVIDED BY OWNER).
 - EXIST. HANGERS, NAILS, ETC. IN WALLS AND CEILING TO BE REMOVED AND PATCHED.
 - PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURES.
 - INSTALL SANITARY CLEANOUT.
 - REPLACE ALL SEWER AND WATER LINES. PROVIDE WATER MAIN SHUT OFF VALVES FOR EACH RISER AND/OR BRANCH.
 - COVER CMU WALLS WITH DRYWALL. NEW DRYWALL PAINTED EGGSHELL FINISH.
 - REPLACE APARTMENT ENTRY DOORS. NEW DOORS ARE TO BE STAINED WOOD DOORS. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
 - REPLACE ALL INTERIOR DOORS WITH PAINTED SOLID CORE WOOD DOORS. REPLACE DOORFRAMES WITH METAL FRAMES. EXISTING FRAMES MAY REMAIN IF IN GOOD SHAPE AND INTERIOR WALLS REMAIN. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
 - INSTALL CARD ACCESS LOCKS ON ALL APARTMENT ENTRIES.
 - UPGRADE EXISTING ELECTRICAL SYSTEM. PROVIDE NEW MAIN INCOMING SERVICES AND FEEDS. IF NEEDED, WIRE MOLD WILL BE REQUIRED.
 - REPLACE WINDOW HEAT PUMPS.
 - EXISTING WINDOWS TO REMAIN. REPLACE ALL MINI BLINDS WITH NEW VINYL BLINDS W8-1 THROUGHOUT ALL UNITS. INSTALL DOUBLE CURTAIN RODS (PROVIDED BY OWNER).
 - ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING/SOFFIT FINISH.
 - COORDINATE FINAL CABINERY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

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| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |
- DASHED LINE REPRESENTS CABINET/COUNTERTOP BELOW.
 - PROVIDE WOOD BLOCKING FOR BATHROOM FIXTURE. INST. ALL PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE WOOD BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS TO FULLY COMPLY WITH ANSI A117.1.
 - PROVIDE AND INSTALL CONTINUOUS 4" BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS. SEE FINISH SCHEDULE FOR SPECIFICATIONS.
 - G.C. TO FINISH WALL AND BASE BEHIND RANGE AND REFRIGERATOR. TYP. ALL UNITS AND COMMON AREA KITCHEN.
 - PROVIDE 4" CABINET TOE KICK TO MATCH CABINERY FINISH. CUT TO LENGTH IF NEEDED.
 - PROVIDE AND INSTALL SILICONE JOINT BETWEEN SOLID SURFACE AND BACKSPLASH TILE. COLOR TO MATCH COUNTERTOP COLOR. FINISH CABINET SIDE PANEL.
 - PVC QUARTER ROUND INSTALLED AT SHOWER BASE. TO BE SEALED.
 - INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.
 - ALIGN NEW CEILING WITH EXISTING WALL AND CEILING HEIGHT. PAINT PT-1.
 - INSTALL 2"x8" CERAMIC TILE AT BACKSPLASH AND SIDEWALL OF ALL UNIT KITCHENS. STACK HORIZONTALLY AND ALIGN GROUT JOINTS. INCLUDE SCHLUTER JOLLY TRANSITION CHROME FINISH AT EXPOSED EDGE AND TOP.
 - EXISTING CONCRETE CEILING TO REMAIN. CLEAN/REPAIR AS NEEDED AND PAINT PT-1.
 - DASHED LINE INDICATES EXTENTS OF WALL TO BE REPLACED WITH 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO CEILING IF REMOVAL OF EXISTING GYPSUM IS REQUIRED TO REPLACE EXISTING PLUMBING STACKS.
 - 16" DEEP WHITE CLOSET SHELVING WITH ADDITION OF HANG ROD.
 - PROVIDE 2" VINYL BLINDS AT ALL UNIT WINDOWS. REFER TO FINISH SCHEDULE FOR SPECIFICATION W8-1.
 - PROVIDE ADJUSTABLE TENSION ROD AT ALL CLOSETS. WEIGHTED CURTAIN TO BE PROVIDED BY OWNER.
 - PROVIDE DOUBLE DRAPERY ROD AT ALL UNIT WINDOWS. REFER TO ACCESSORY SCHEDULE. CURTAIN PROVIDED BY FINENT.
 - PROVIDE AND INSTALL (2) FIRE CANISTERS AT EACH RANGEHOOD.
 - LOCATION OF EXISTING KITCHEN VENTILATION. EXHAUST GRILL TO BE REPLACED. EXISTING DUCTWORK AND GRILL TO BE RELOCATED TO ACCOMMODATE NEW BATHROOM LAYOUT. REFER TO MECHANICAL DRAWINGS.
 - LOCATION OF EXISTING BATHROOM VENTILATION. EXHAUST GRILL TO BE REPLACED. EXISTING DUCTWORK AND GRILL TO BE RELOCATED TO ACCOMMODATE NEW BATHROOM LAYOUT. REFER TO MECHANICAL DRAWINGS.
 - PROVIDE SWITCHED OUTLET IN BEDROOMS AND LIVING ROOM WHERE NO OVERHEAD LIGHT IS LOCATED. TYPICAL ALL UNITS.
 - CENTER FIXTURE IN ROOM.
 - CENTER FIXTURE ON VANITY.
 - CENTER FIXTURE ON KITCHEN SINK.
 - CENTER FIXTURE ON SHOWER.
 - CENTER FIXTURE ON DOOR/OPENING.
 - CENTER FIXTURE ON WINDOW CLOSET.
 - CENTER FIXTURE ON LAVATORY SINK AND MIRROR.
 - LOCATION OF NEW UNIT LOAD CENTER. REFER TO ELECTRICAL DRAWINGS.



UNIT KEY PLAN - 1A

KEYED NOTES SPECIFIC TO THIS SHEET

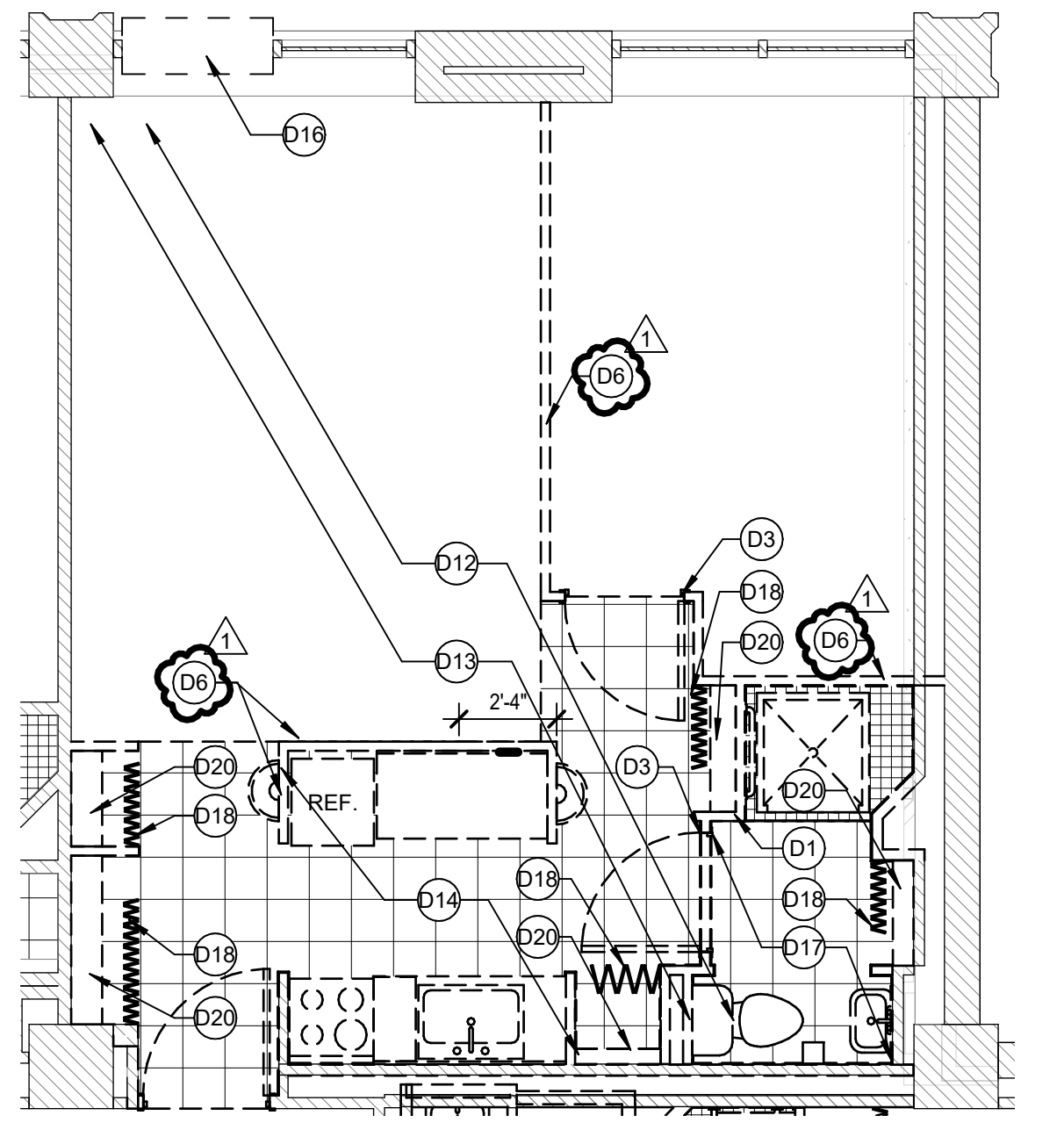
- REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE
- REMOVE PORTION OF EXISTING WALL AND ANY ASSOCIATED UTILITIES OR EQUIPMENT.
 - REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
 - REMOVE EXISTING WALL IN ITS ENTIRETY UP TO STRUCTURAL DECK.
 - REMOVE ALL EXISTING FLOORING AND VINYL BASE IN ENTIRE DWELLING UNIT. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING.
 - REMOVE ALL EXISTING LIGHT FIXTURES IN ENTIRE DWELLING UNIT.
 - REMOVE EXISTING SINK, CABINETS, APPLIANCES, COUNTERTOP AND HARDWARE FROM KITCHEN AREA. APPLIANCES IN GOOD CONDITION ARE TO BE SALVAGED AND STORED. COORDINATE WITH OWNER.
 - REMOVE IN-WINDOW HEAT PUMP UNIT. EXISTING ASSOCIATED DUCTWORK TO REMAIN AND BE CLEANED.
 - REMOVE ALL EXISTING TILE FLOORING, BASE, PLUMBING FIXTURES, GRAB BARS, AND MIRRORS FROM BATHROOM.
 - REMOVE EXISTING ACCORDIAN DOOR AND ASSOCIATED TRACK, FRAME AND HARDWARE.
 - REMOVE ALL EXISTING CLOSET SHELVING.

CEILING LEGEND

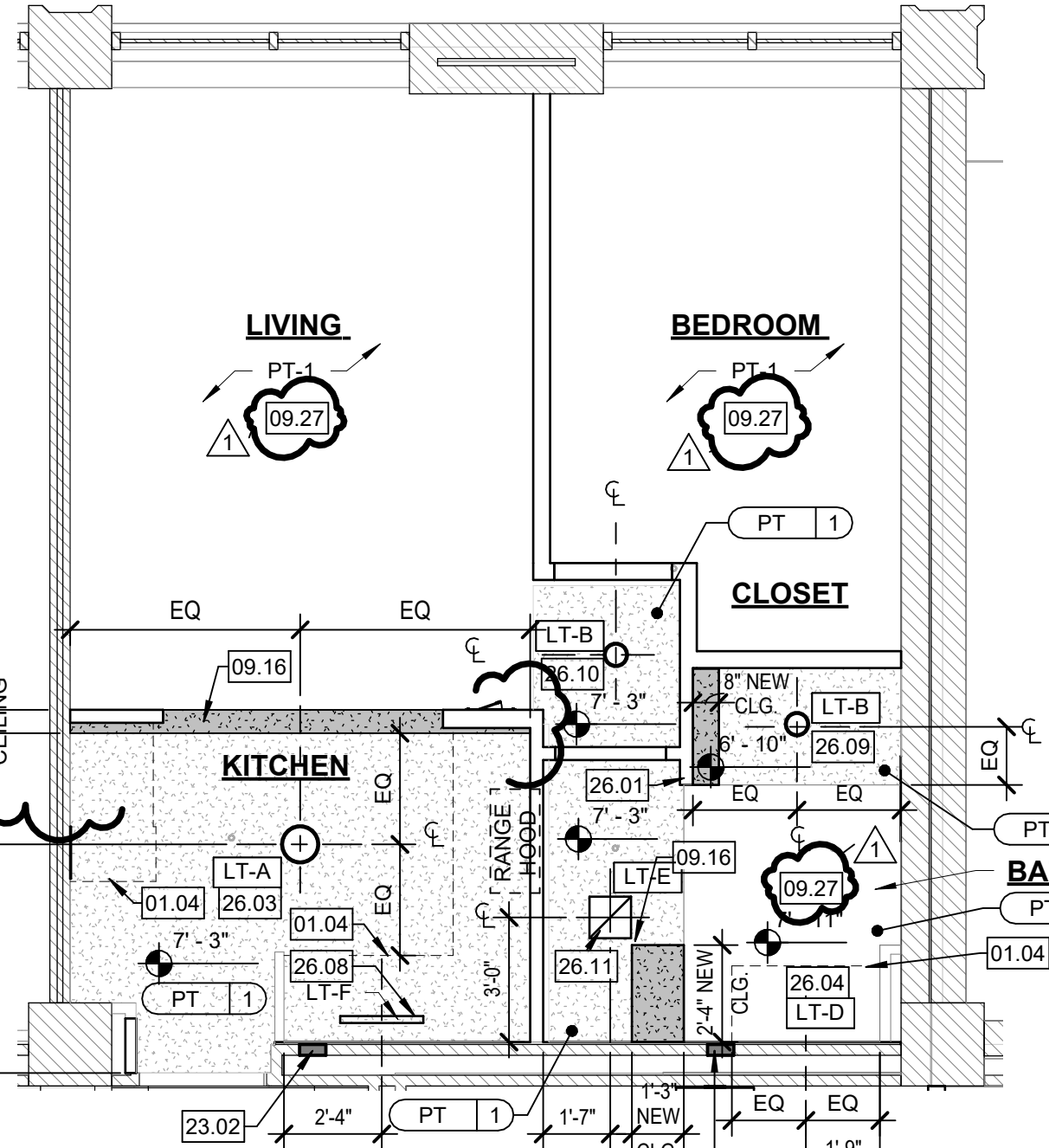
- EXISTING CEILING TO REMAIN; PAINT PT-1
- NEW GYP. BD. CEILING TO BE ALIGNED WITH EXISTING CEILING HEIGHT; PAINT PT-1
- EXISTING GYP. BD. CEILING TO REMAIN; PT-1

UNIT CEILING FIXTURE LEGEND

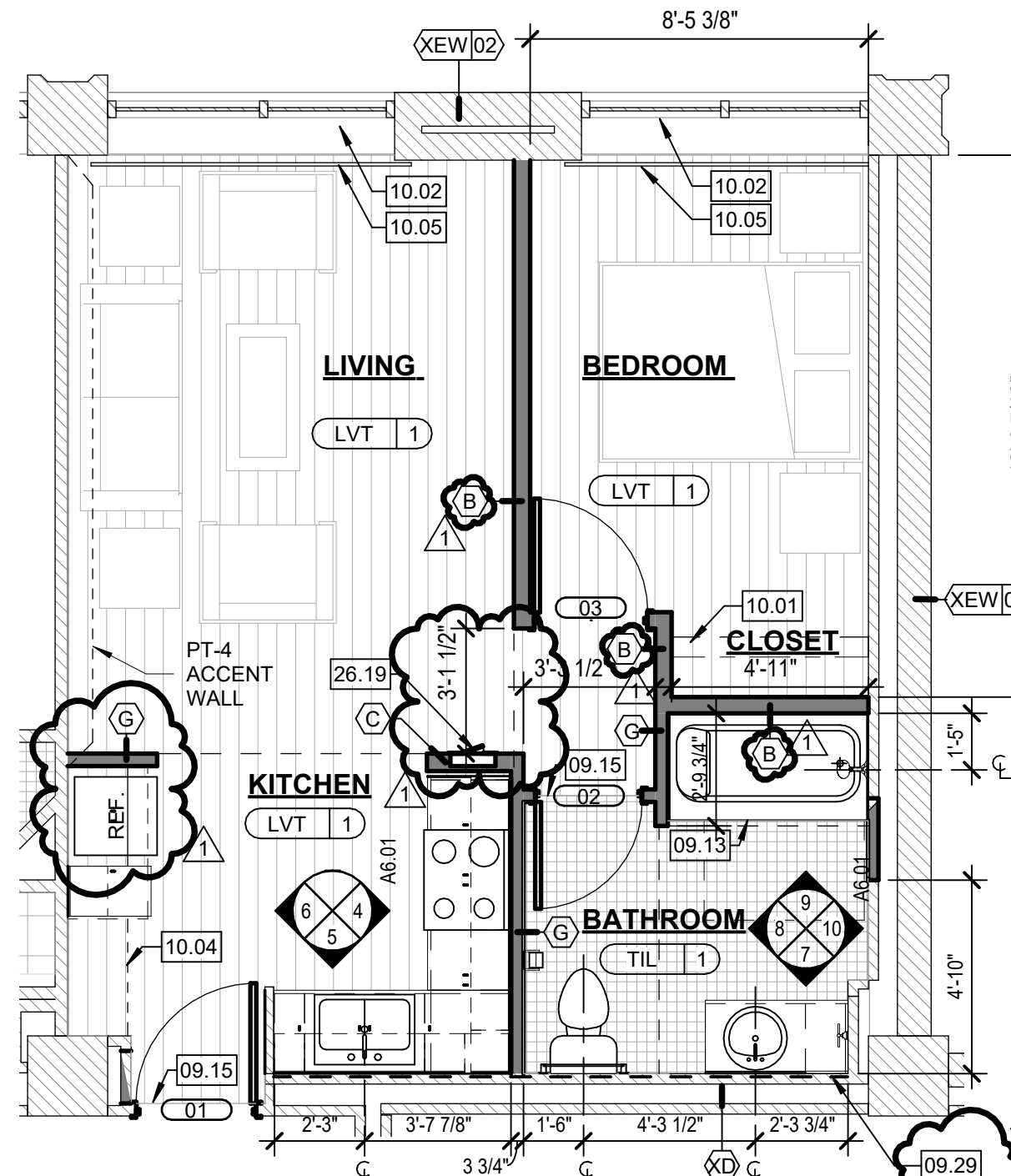
- LT-A 11" SURFACE MOUNT PUCK LIGHT
- LT-B 7" SURFACE MOUNT PUCK LIGHT - WET RATED
- LT-C ISLAND PENDANT
- LT-D 24"W VANITY WALL SCONCE
- LT-E BATHROOM EXHAUST FAN
- LT-F TAPE LIGHT - OVER SINK



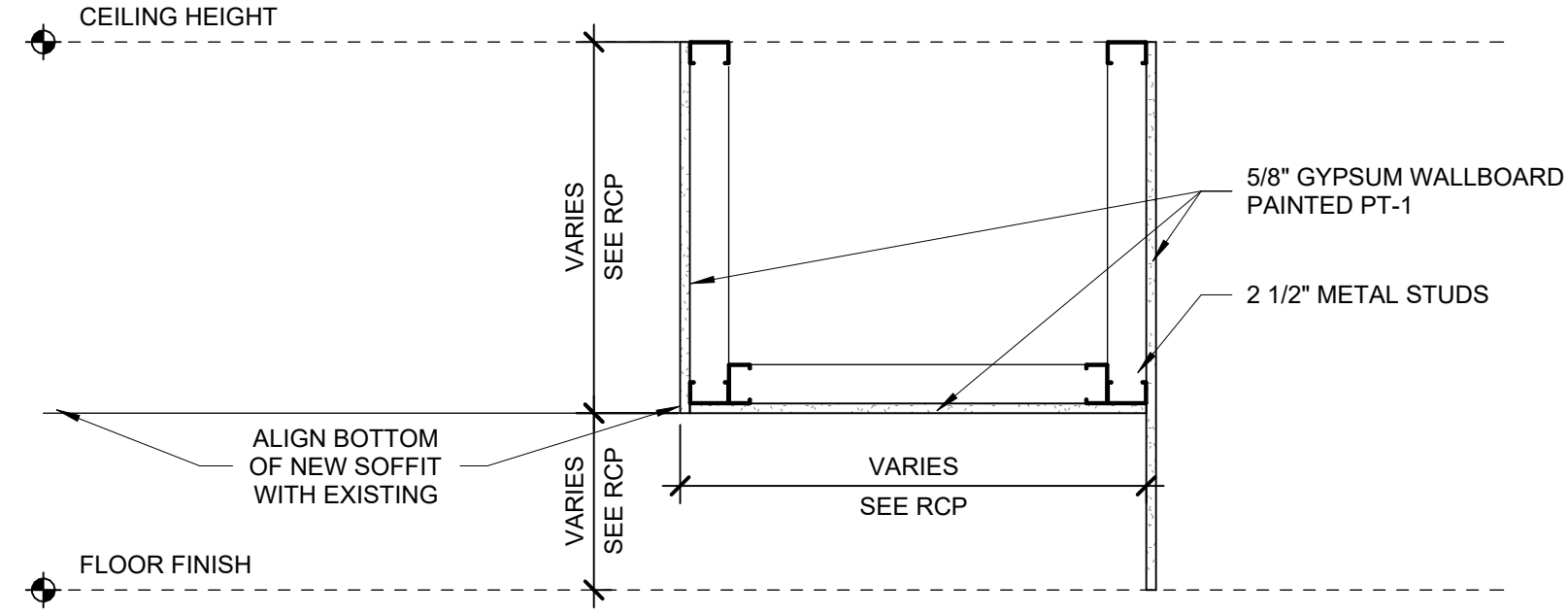
3 UNIT 1A - DEMO
SCALE: 1/4" = 1'-0"



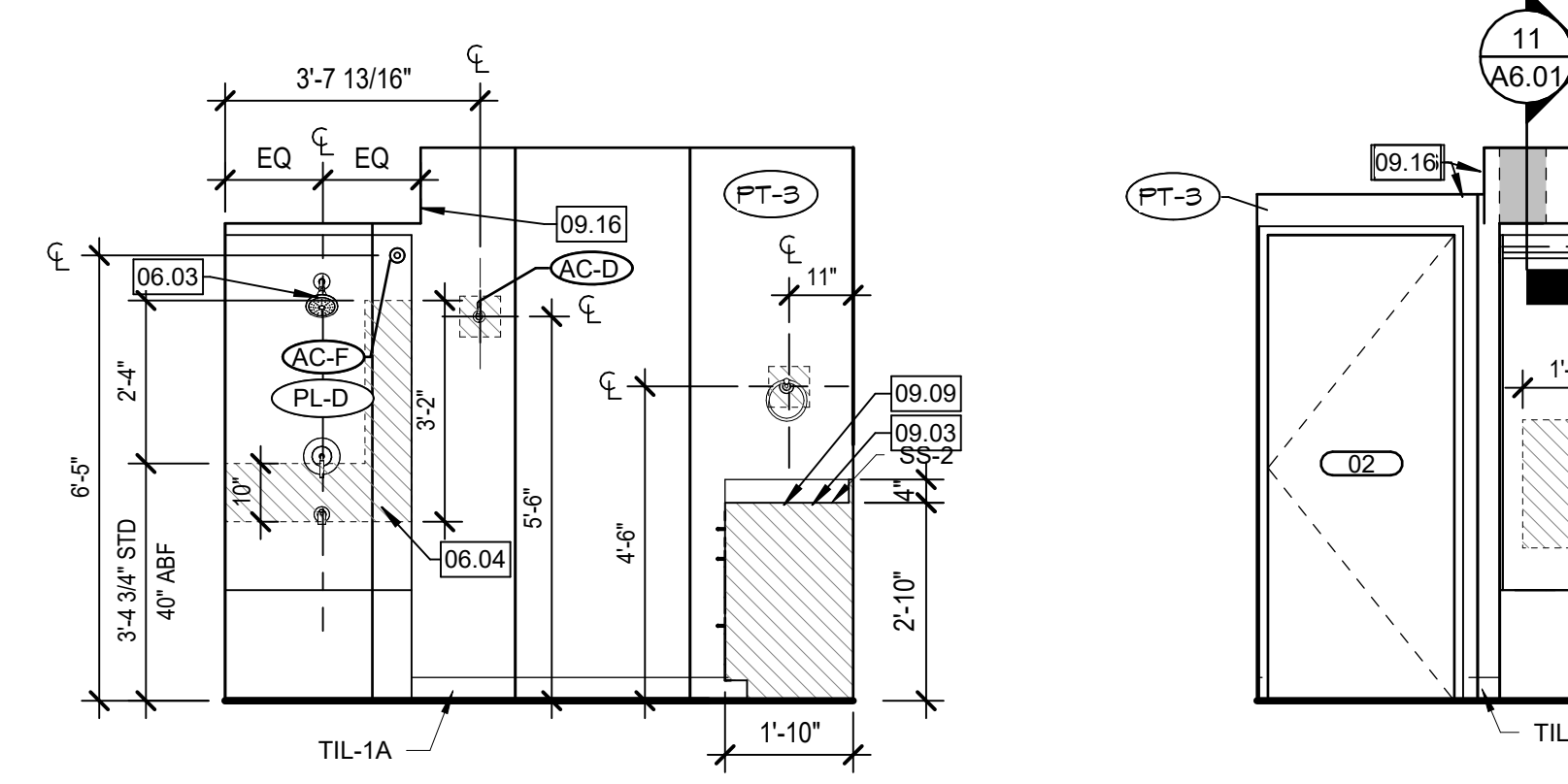
2 UNIT 1A - RCP
SCALE: 1/4" = 1'-0"



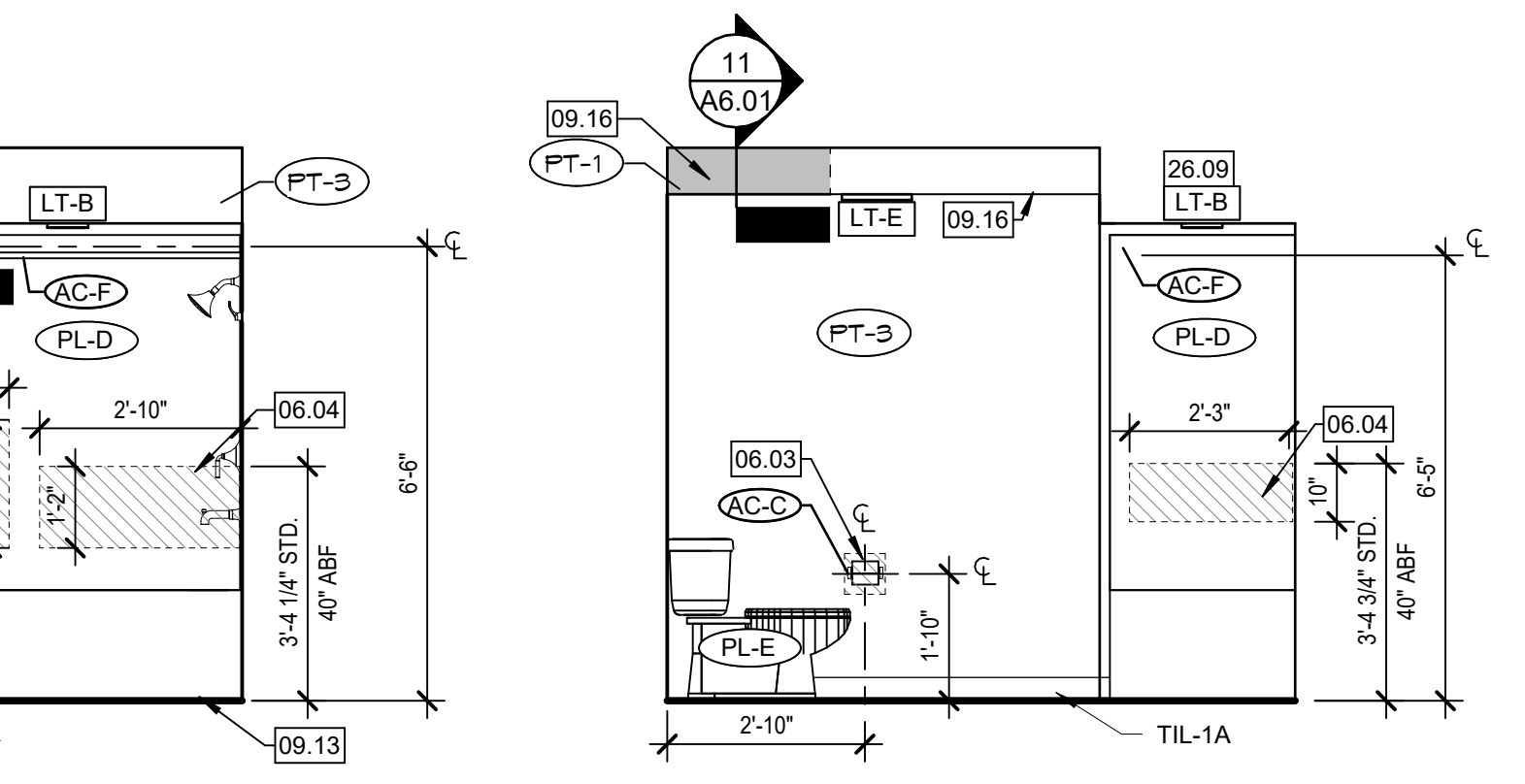
1 UNIT 1A - PROPOSED PLAN
SCALE: 1/4" = 1'-0"



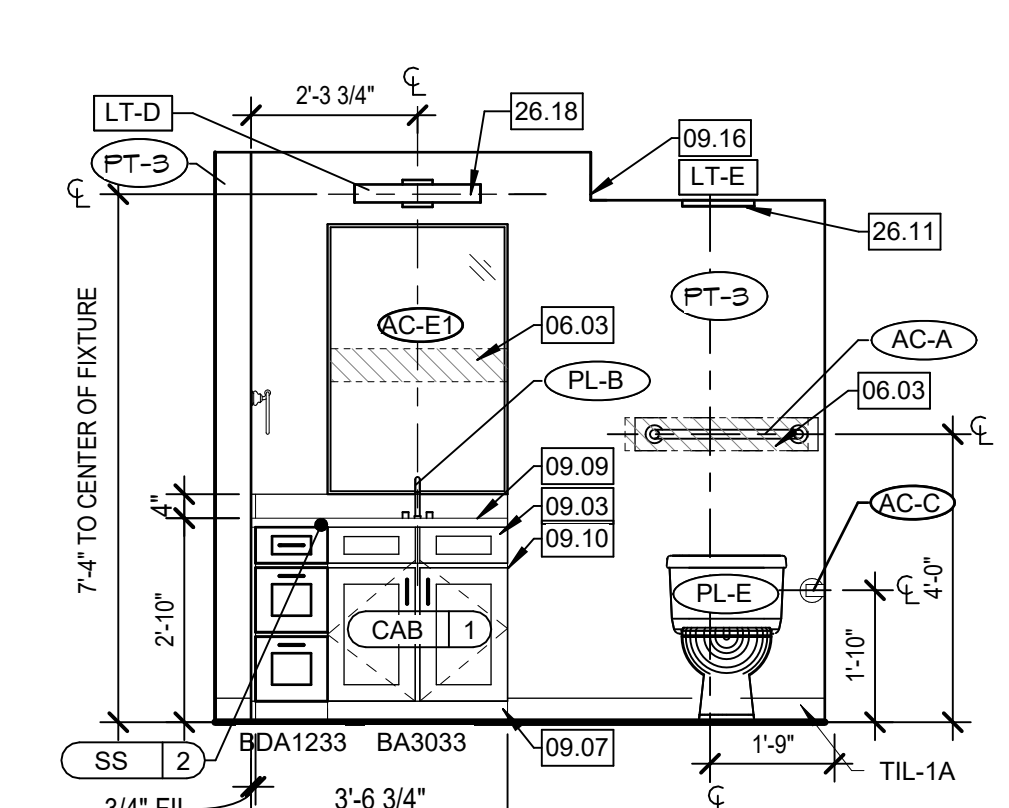
11 TYPICAL UNIT SOFFIT DETAIL
SCALE: 1" = 1'-0"



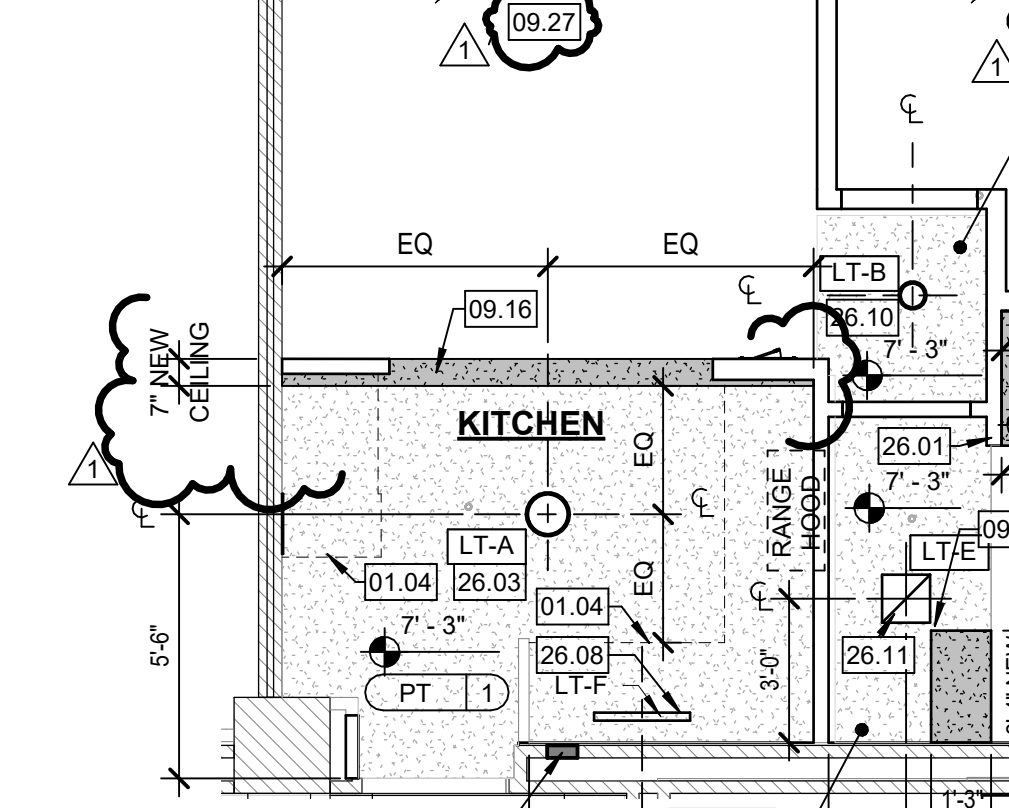
10 UNIT 1A BATH. ELEV. 4
SCALE: 3/8" = 1'-0"



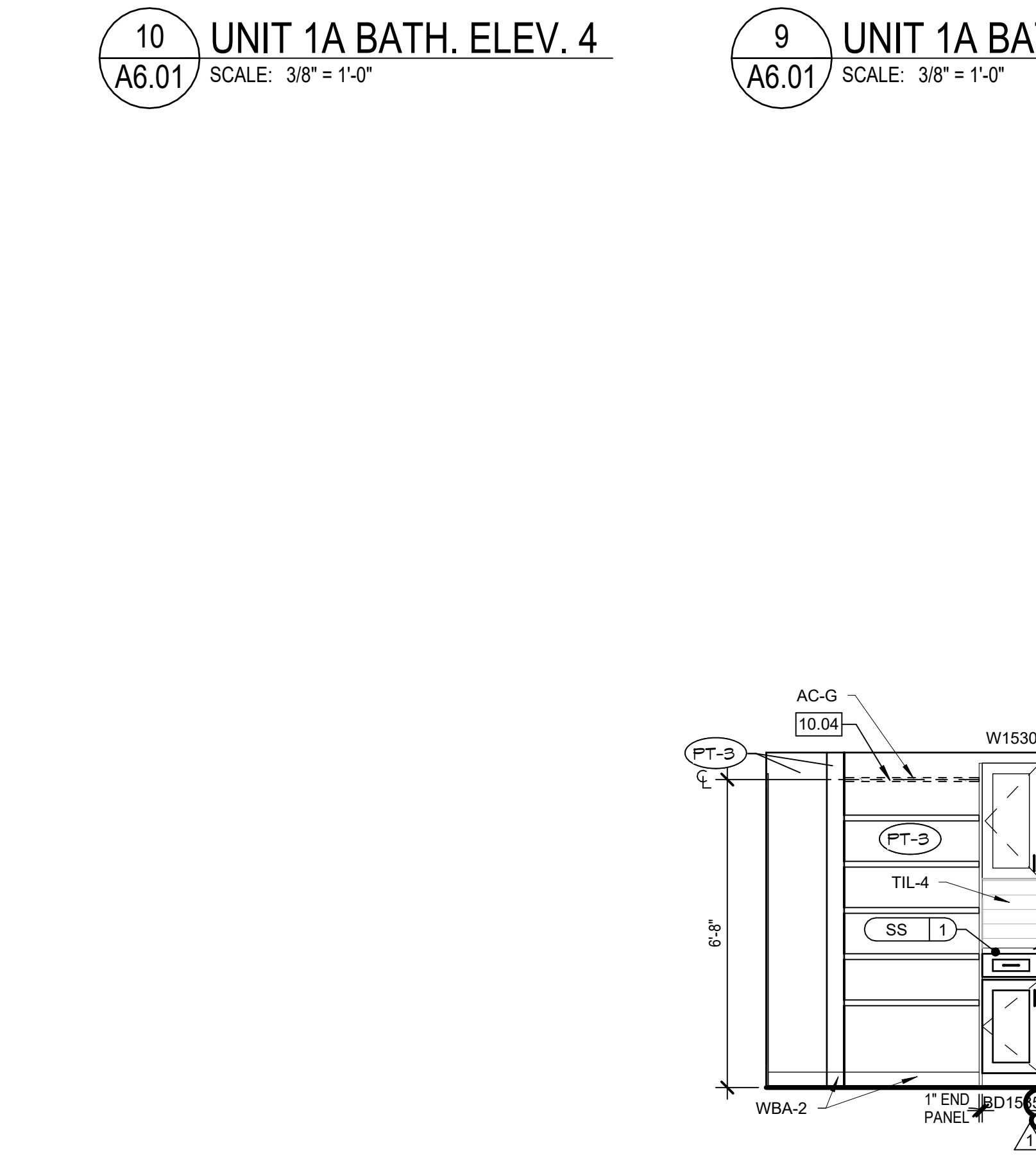
9 UNIT 1A BATH. ELEV. 3
SCALE: 3/8" = 1'-0"



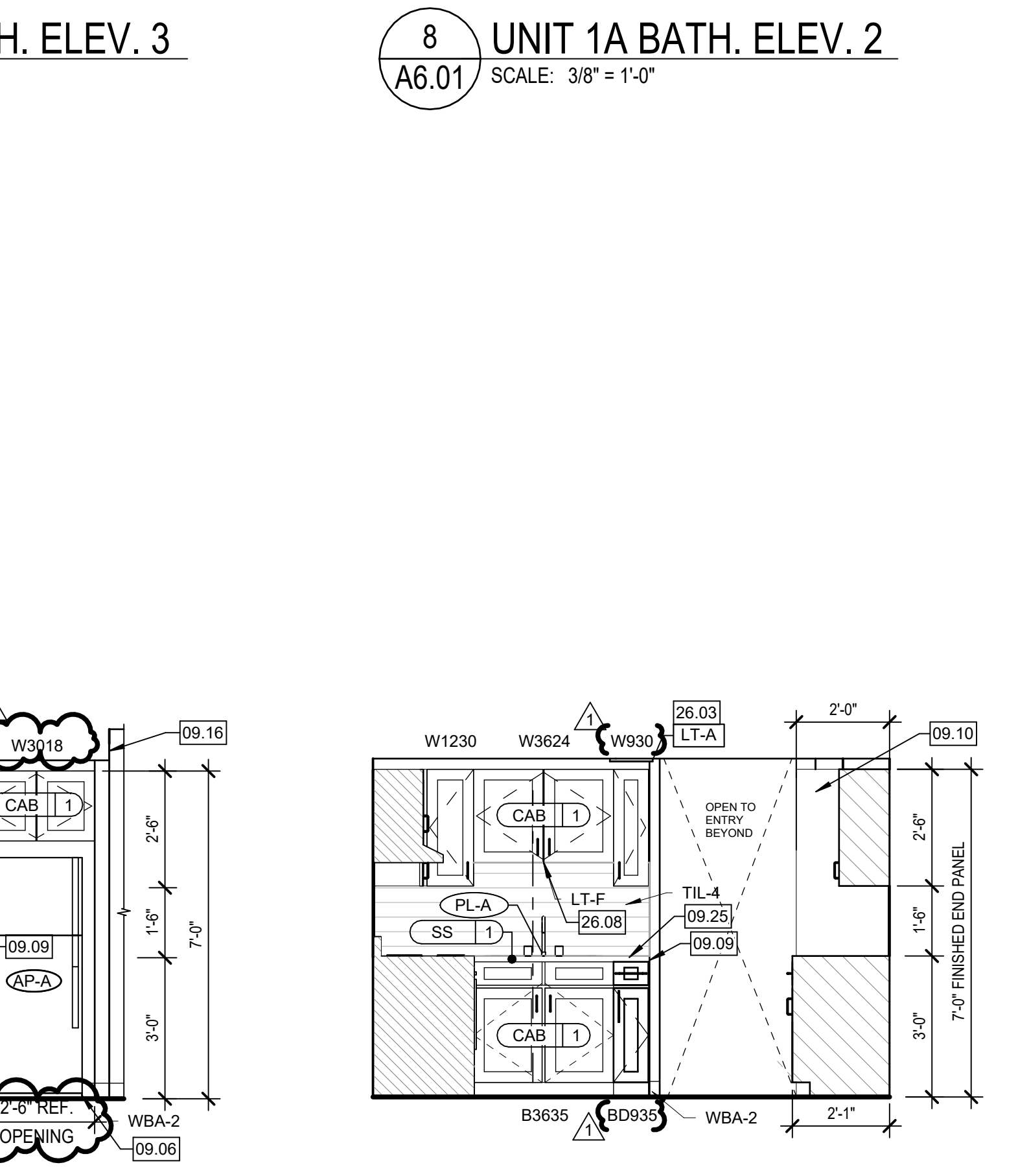
8 UNIT 1A BATH. ELEV. 2
SCALE: 3/8" = 1'-0"



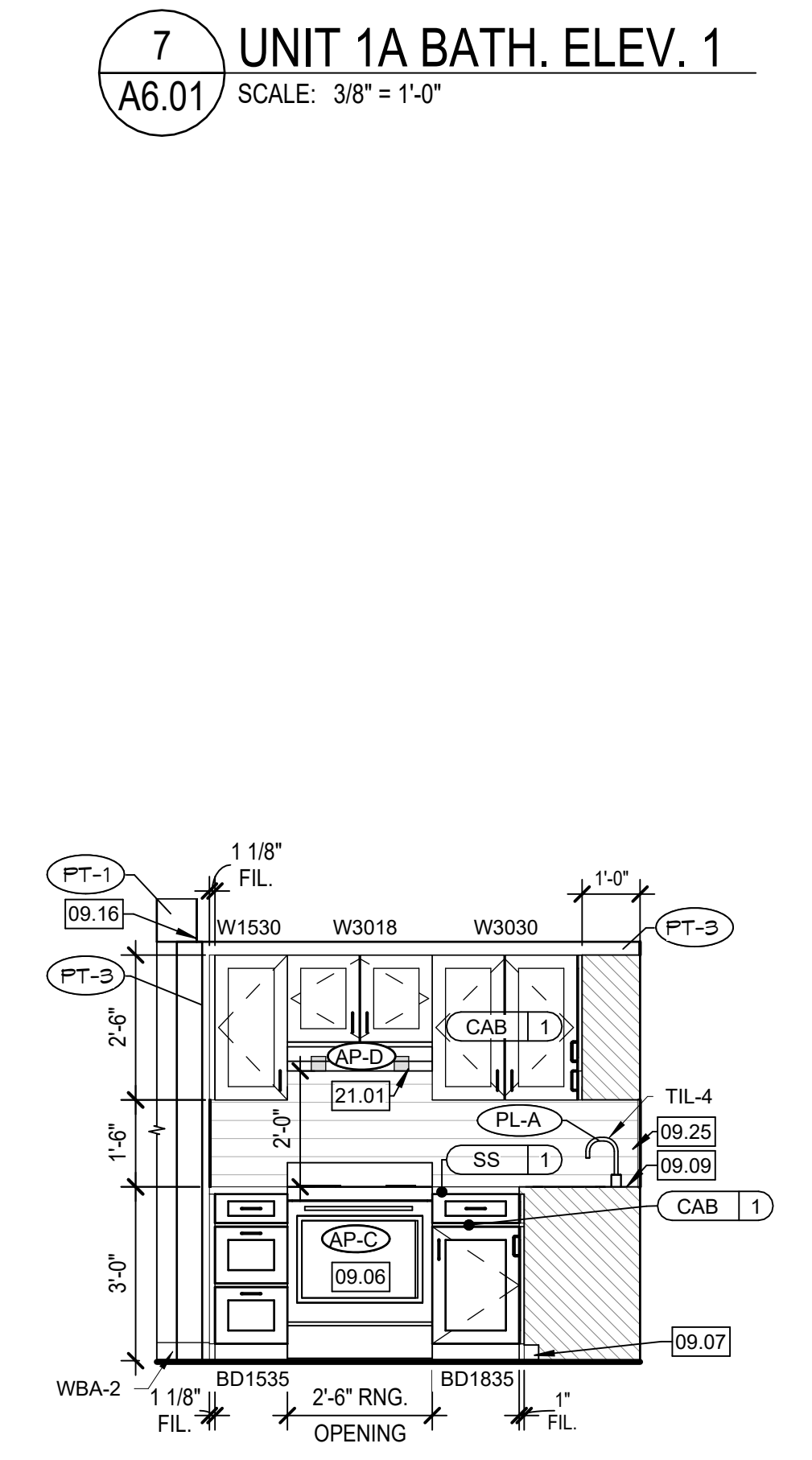
7 UNIT 1A BATH. ELEV. 1
SCALE: 3/8" = 1'-0"



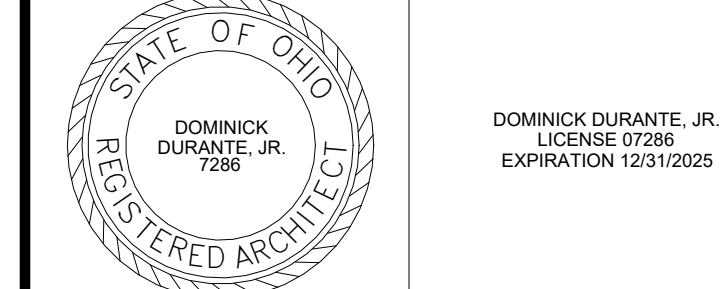
6 UNIT 1A KITCHEN ELEV. 3
SCALE: 3/8" = 1'-0"



5 UNIT 1A KITCHEN ELEV. 2
SCALE: 3/8" = 1'-0"



4 UNIT 1A KITCHEN ELEV. 1
SCALE: 3/8" = 1'-0"



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

ENLARGED UNIT PLAN- 1A

A6.01

| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

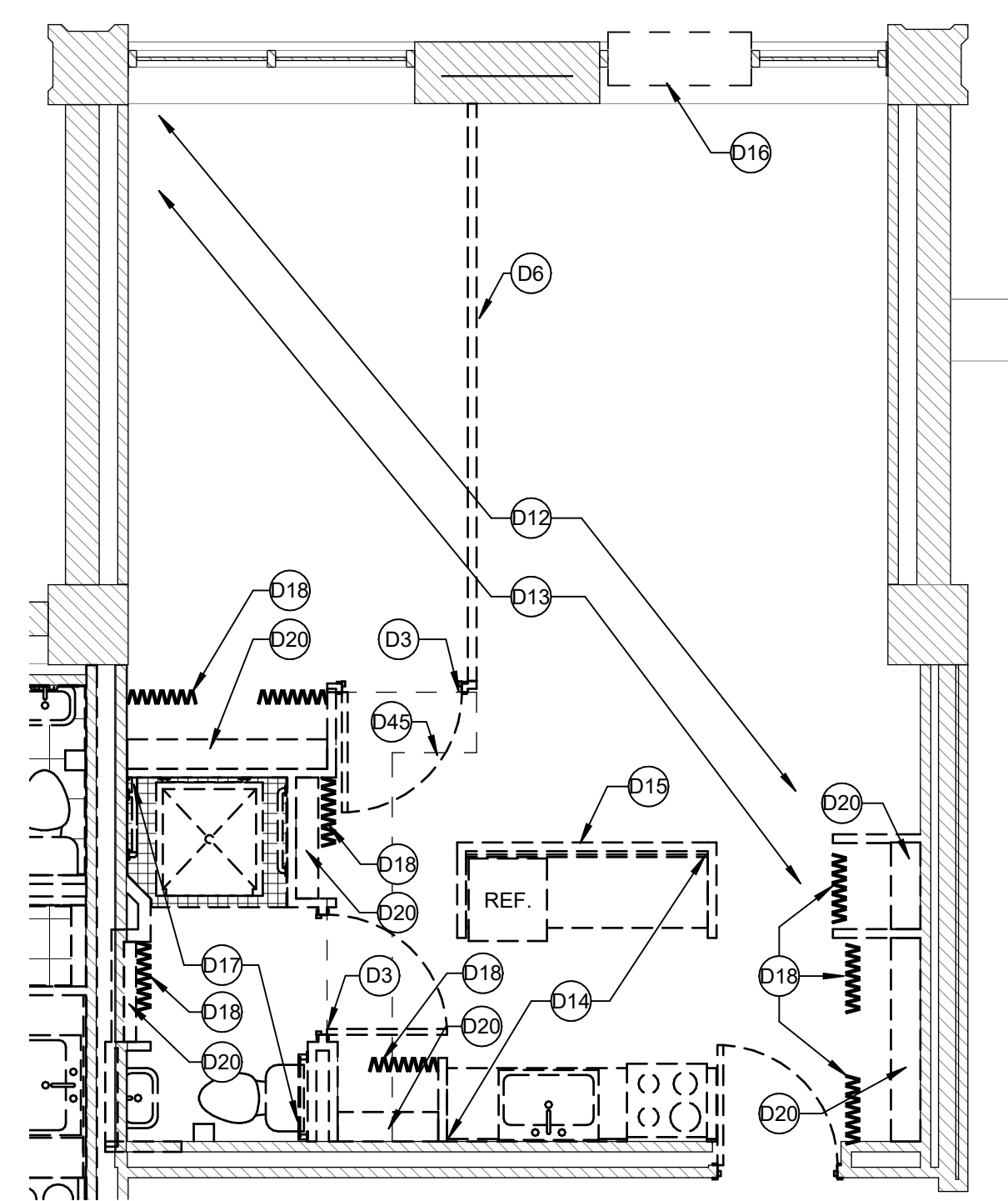
- 01.04 DASHED LINE REPRESENTS CABINET/COUNTERTOP BELOW.
- 06.03 PROVIDE WOOD BLOCKING FOR BATHROOM FIXTURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 06.04 PROVIDE WOOD BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS TO FULLY COMPLY WITH ANSI A117.1.
- 09.03 PROVIDE AND INSTALL CONTINUOUS 4" BACKSPASH AND SIDESPLASH AT ADJACENT WALLS. SEE FINISH SCHEDULE FOR SPECIFICATIONS.
- 09.06 G.C. TO FINISH WALL AND BASE BEHIND RANGE AND REFRIGERATOR. TYP. ALL UNITS AND COMMON AREA KITCHEN.
- 09.07 PROVIDE 4" CABINET TOE KICK TO MATCH CABINETS. FINISH. CUT TO LENGTH IF NEEDED.
- 09.09 PROVIDE AND INSTALL SILICONE JOINT BETWEEN SOLID SURFACE AND BACKSPASH TILE. COLOR TO MATCH COUNTERTOP COLOR.
- 09.10 FINISH CABINET SIDE PANEL.
- 09.13 PVC QUARTER ROUND INSTALLED AT SHOWER BASE. TO BE SEALED.
- 09.15 INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.
- 09.16 ALIGN NEW CEILING WITH EXISTING WALL AND CEILING HEIGHT. PAINT PT-1.
- 09.25 INSTALL 2"X8" CERAMIC TILE AT BACKSPASH AND SIDEWALL OF ALL UNIT KITCHENS. STACK HORIZONTALLY AND ALIGN GROUT JOINTS. INCLUDE SCHLUTER JOLLY TRANSITION, CHROME FINISH, AT EXPOSED EDGE AND TOP.
- 09.27 EXISTING CONCRETE CEILING TO REMAIN. CLEAN/REPAIR AS NEEDED AND PAINT PT-1.
- 09.28 DEMO EXISTING GYP. CEILING. CLEAN/REPAIR EXISTING CONCRETE CEILING AS NEEDED AND PAINT PT-1.
- 09.29 DASHED LINE INDICATES EXTENTS OF WALL TO BE REPLACED WITH 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO CEILING IF REMOVAL OF EXISTING GYPSUM IS REQUIRED TO REPLACE EXISTING PLUMBING STACKS.
- 10.02 PROVIDE 2" VINYL BLINDS AT ALL UNIT WINDOWS. REFER TO FINISH SCHEDULE FOR SPECIFICATION WB-1.
- 10.04 PROVIDE ADJUSTABLE TENSION ROD AT ALL CLOSETS. WEIGHTED CURTAIN TO BE PROVIDED BY OWNER.
- 10.05 PROVIDE DOUBLE DRAPERY ROD AT ALL UNIT WINDOWS. REFER TO ACCESSORY SCHEDULE. CURTAIN PROVIDED BY TENANT.
- 21.01 PROVIDE AND INSTALL (2) FIRE CANISTERS AT EACH RANGEHOOD.
- 23.02 LOCATION OF EXISTING KITCHEN VENTILATION. EXHAUST GRILL TO BE RELOCATED. EXISTING DUCTWORK AND GRILL TO BE RELOCATED TO ACCOMMODATE NEW KITCHEN LAYOUT. REFER TO MECHANICAL DRAWINGS.
- 23.03 LOCATION OF EXISTING BATHROOM VENTILATION. EXHAUST GRILL TO BE RELOCATED TO ACCOMMODATE NEW BATHROOM LAYOUT REFER TO MECHANICAL DRAWINGS.
- 26.01 PROVIDE SWITCHED OUTLET IN BEDROOMS AND LIVING ROOM WHERE NO OVERHEAD LIGHT IS LOCATED.
- 26.03 CENTER FIXTURE IN ROOM.
- 26.08 CENTER FIXTURE ON KITCHEN SINK.
- 26.09 CENTER FIXTURE ON SHOWER.
- 26.10 CENTER FIXTURE ON DOOR OPENING.
- 26.11 CENTER FIXTURE ON WATER CLOSET.
- 26.18 CENTER FIXTURE ON LAVATORY SINK AND MIRROR.
- 26.19 LOCATION OF NEW UNIT LOAD CENTER. REFER TO ELECTRICAL DRAWINGS.

GENERAL NOTES - ENLARGED UNIT PLANS

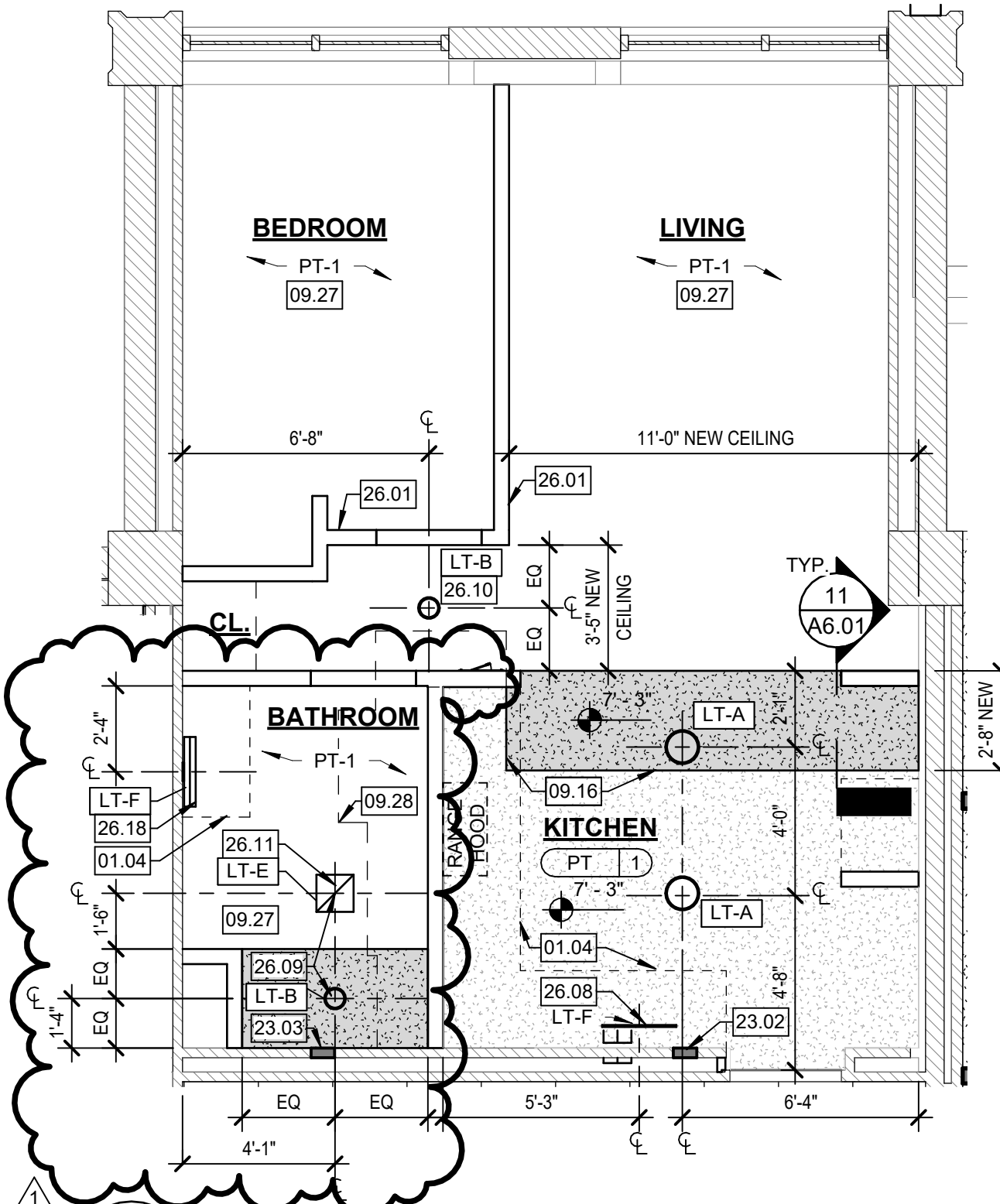
- REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
- REFER TO SHEET G0.03 FOR ACCESSIBLE DETAILS TO FOLLOW.
- THE FOLLOWING SCOPE OF WORK IS FOR ALL TYPICAL UNITS UNLESS OTHERWISE NOTED. REFER TO PLANS FOR ADDITIONAL SCOPE:

GENERAL UNIT:

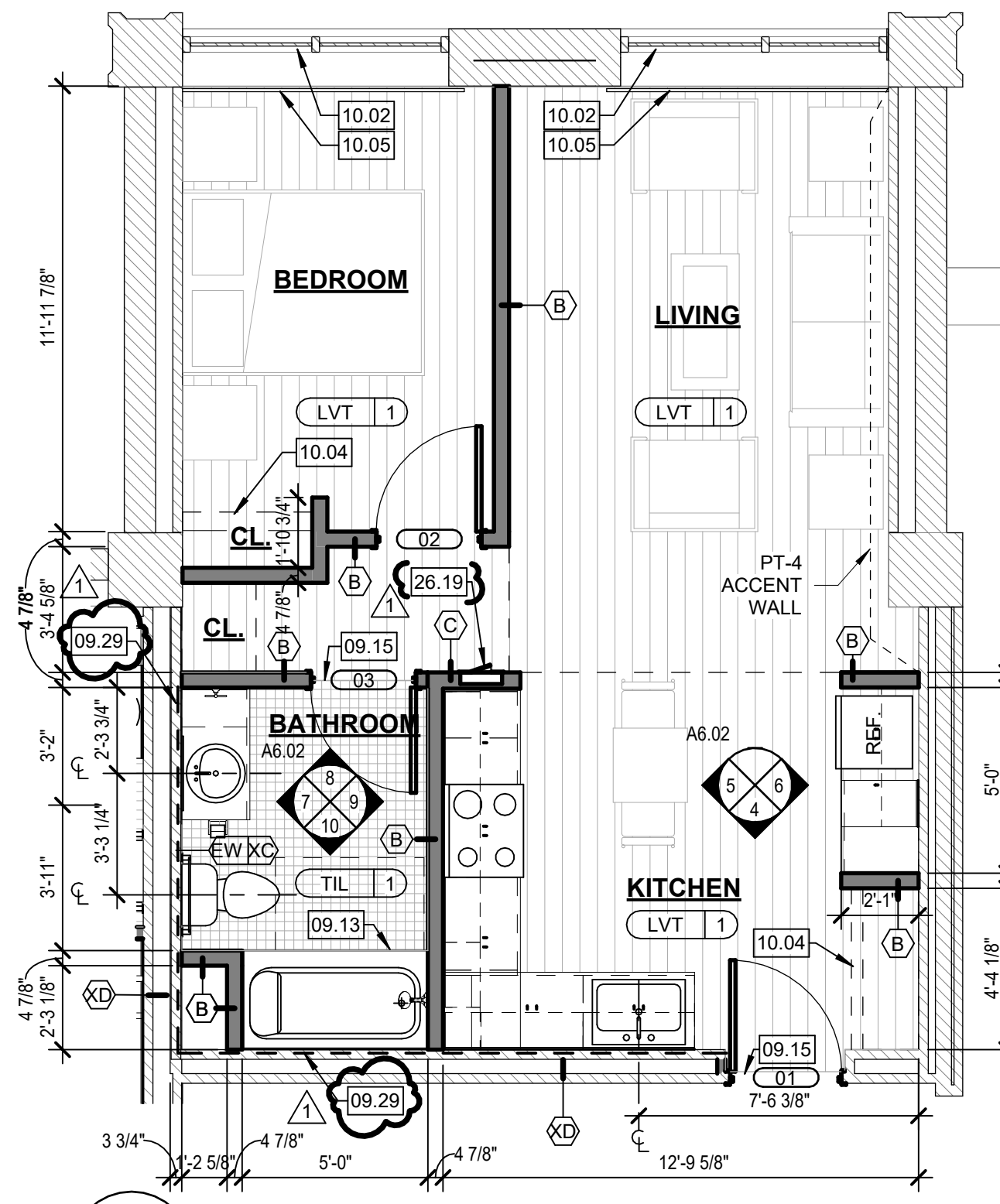
- A. REPAIR DRYWALL & WATER DAMAGE THROUGHOUT UNITS. INSULATE WHERE POSSIBLE.
- B. PAINT ALL WALLS (EGGSHELL FINISH), CEILINGS & SOFFITS (FLAT FINISH), AND DOORS & TRIM (SATIN FINISH) WITH ONE COAT PRIMER AND 2 COATS PAINT.
- B1. PROVIDE ACCENT WALL IN LIVING. REFER TO FINISH SCHEDULE & ENLARGED UNIT PLANS.
- B2. ALL DRYWALL WALLS AND CEILINGS ARE TO RECEIVE LEVEL 4 FINISH PER STM C840 STANDARDS. USE TUFF-HIDE AT ALL JOINTS.
- C. PROVIDE NEW ROOM SIGNAGE W/ BRALLEL AT CORRIDOR ON DOOR LEVER SIDE.
- D. PROVIDE NEW GLOE-UPDOWN VINYL PLANK FLOORING THROUGHOUT UNIT - EXCEPT BATHROOM. PREP FLOOR PER MANUFACTURER'S INSTALL. REQUIREMENTS.
- D1. REMOVE ALL EXISTING FLOORING (CARPET, TILE, VCT, ETC.) THROUGHOUT UNIT DOWN TO CONCRETE/ SUBFLOORING.
- E. PROVIDE NEW WOOD BASE THROUGHOUT - EXCEPT BATHROOMS. REFER TO FINISH SCHEDULE WBA-2.
- F. REPLACE ALL EXIST. LIGHT FIXTURES, OUTLETS, SWITCHES AND COVER PLATES. NEW SWITCHES, GFCI OUTLETS & COVER PLATES, ETC. TO BE LEGRAND RADIANT IN WHITE. LIGHT FIXTURES TO BE LED.
- F1. ALL TO BE INSTALLED AT ACCESSIBLE HEIGHTS.
- G. PROVIDE NEW HARDWIRED COMBO COSMOKE DETECTORS IN ALL UNITS. CONCEAL WIRING IN WIRE MOUND AND PAINT TO MATCH CEILING. WHI AND MOBILITY UNITS TO RECEIVE STROBES.
- H. INSTALL CARBON MONOXIDE DETECTORS IN ALL UNITS.
- I. EXISTING WINDOWS TO REMAIN. REPLACE ALL MINI BLINDS. THE NEW BLINDS SHALL BE VINYL. INSTALL DOUBLE CURTAIN RODS.
- J. INSTALL VENTED CLOSET SHELVING IN ALL CLOSETS (WHITE). TENSION ROD & CURTAINS TO BE INSTALLED ON ALL CLOSET AND PANTRY DOORS (CURTAINS PROVIDED BY OWNER).
- K. EXIST. HANGERS, NAILS, ETC. IN WALLS AND CEILINGS TO BE REMOVED AND PATCHED.
- L. PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURES.
- M. INSTALL SANITARY CLEANOUT.
- N. REPLACE ALL SEWER AND WATER LINES. PROVIDE WATER MAIN SHUT OFF VALVES FOR EACH RISER AND/OR BRANCH.
- O. COVER CMU WALLS WITH DRYWALL. NEW DRYWALL PAINTED EGGSHELL FINISH.
- P. REPLACE APARTMENT ENTRY DOORS. NEW DOORS ARE T BE STAINED WOOD DOORS. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
- Q. REPLACE ALL INTERIOR DOORS WITH PAINTED SOLID CORE WOOD DOORS. REPLACE DOORFRAMES WITH METAL FRAMES. EXISTING FRAMES MAY REMAIN IF IN GOOD SHAPE AND INTERIOR WALLS REMAIN. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
- R. INSTALL CARD ACCESS LOCKS ON ALL APARTMENT ENTRIES.
- S. UPGRADE EXISTING ELECTRICAL SYSTEM. PROVIDE NEW MAIN INCOMING SERVICES AND FEEDS. IF NEEDED. WIRE MOLD WILL BE REQUIRED.
- T. REPLACE WINDOW HEAT PUMPS.
- U. EXISTING WINDOWS TO REMAIN. REPLACE ALL MINI BLINDS WITH NEW VINYL BLINDS W/ 1" THROUGHOUT ALL UNITS. INSTALL DOUBLE CURTAIN RODS (PROVIDED BY OWNER).
- V. ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING/SOFFIT FINISH.
- W. COORDINATE FINAL CABINETS SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.



2 UNIT 1B - DEMO
SCALE: 1/4" = 1'-0"



3 UNIT 1B - RCP
SCALE: 1/4" = 1'-0"



1 UNIT 1B - PROPOSED PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

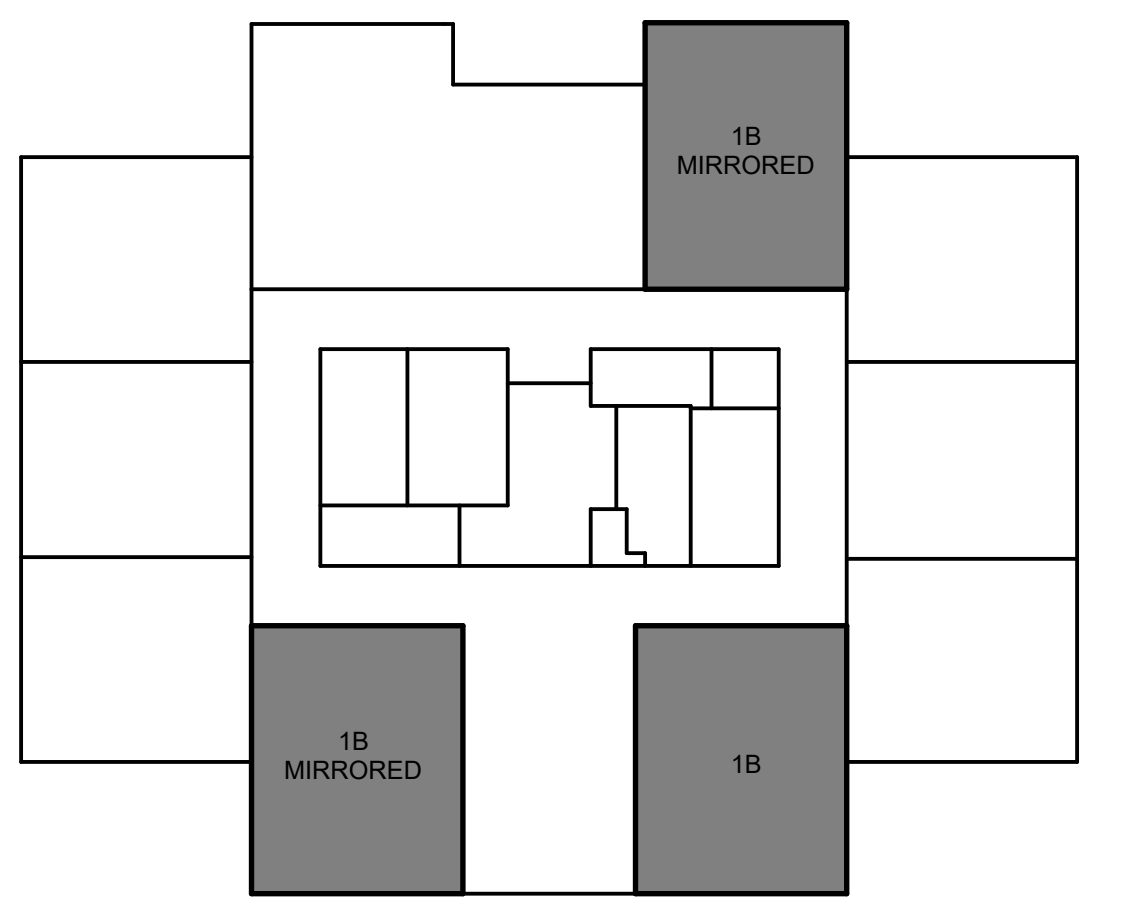
- D3 REMOVE EXISTING DOOR, FRAME AND HARDWARE IN ITS ENTIRETY.
- D6 REMOVE EXISTING WALL IN ITS ENTIRETY UP TO STRUCTURAL DECK.
- D12 REMOVE ALL EXISTING FLOORING AND VINYL BASE IN ENTIRE DWELLING UNIT. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING.
- D13 REMOVE ALL EXISTING LIGHT FIXTURES IN ENTIRE DWELLING UNIT.
- D14 REMOVE EXISTING SINK, CABINETS, APPLIANCES, COUNTERTOP AND HARDWARE FROM KITCHEN AREA. APPLIANCES IN GOOD CONDITION ARE TO BE SALVAGED AND STORED. COORDINATE WITH OWNER.
- D15 REMOVE EXISTING KITCHEN WALL AND ASSOCIATED UTILITIES.
- D16 REMOVE IN-WINDOW HEAT PUMP UNIT. EXISTING ASSOCIATED DUCTWORK TO REMAIN AND BE CLEANED.
- D17 REMOVE ALL EXISTING TILE FLOORING, BASE, PLUMBING FIXTURES, GRAB BARS, AND MIRRORS FROM BATHROOM.
- D18 REMOVE EXISTING ACCORDIAN DOOR AND ASSOCIATED TRACK, FRAME AND HARDWARE.
- D20 REMOVE ALL EXISTING CLOSET SHELVING.
- D45 REMOVE PORTION OF EXISTING GYP. CEILING TO ALIGN WITH NEW CLOSET LOCATION.

CEILING LEGEND

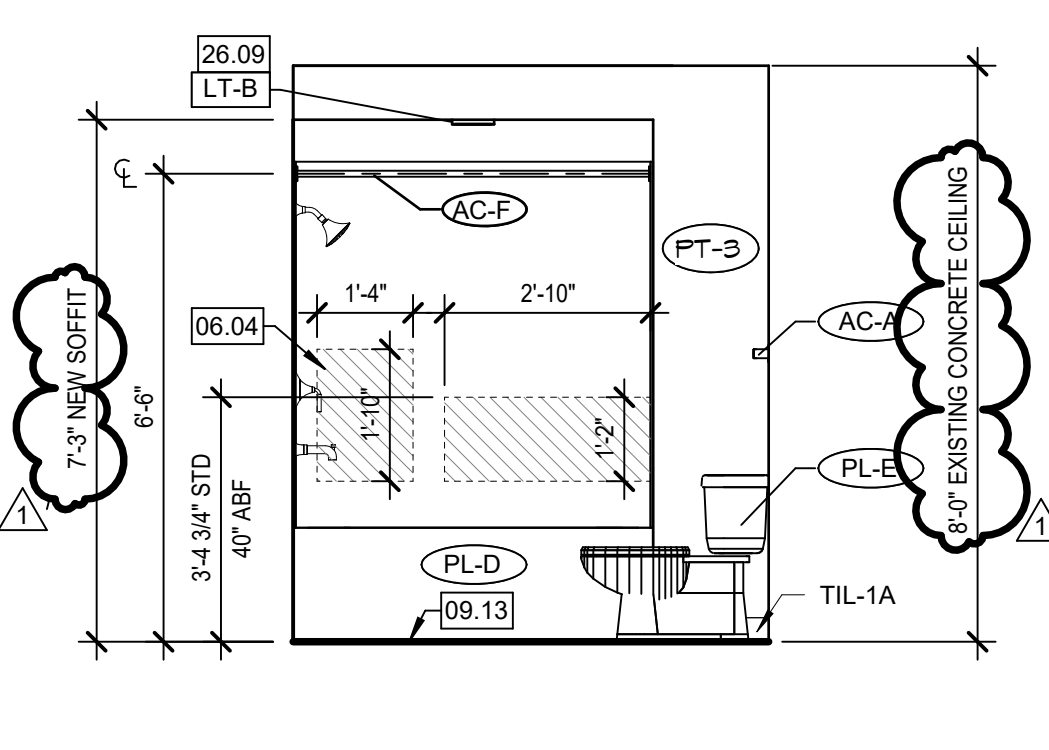
- EXISTING CEILING TO REMAIN; PAINT PT-1
- NEW GYP. BD. CEILING TO BE ALIGNED WITH EXISTING CEILING HEIGHT; PAINT PT-1
- EXISTING GYP. BD. CEILING TO REMAIN; PT-1

UNIT CEILING FIXTURE LEGEND

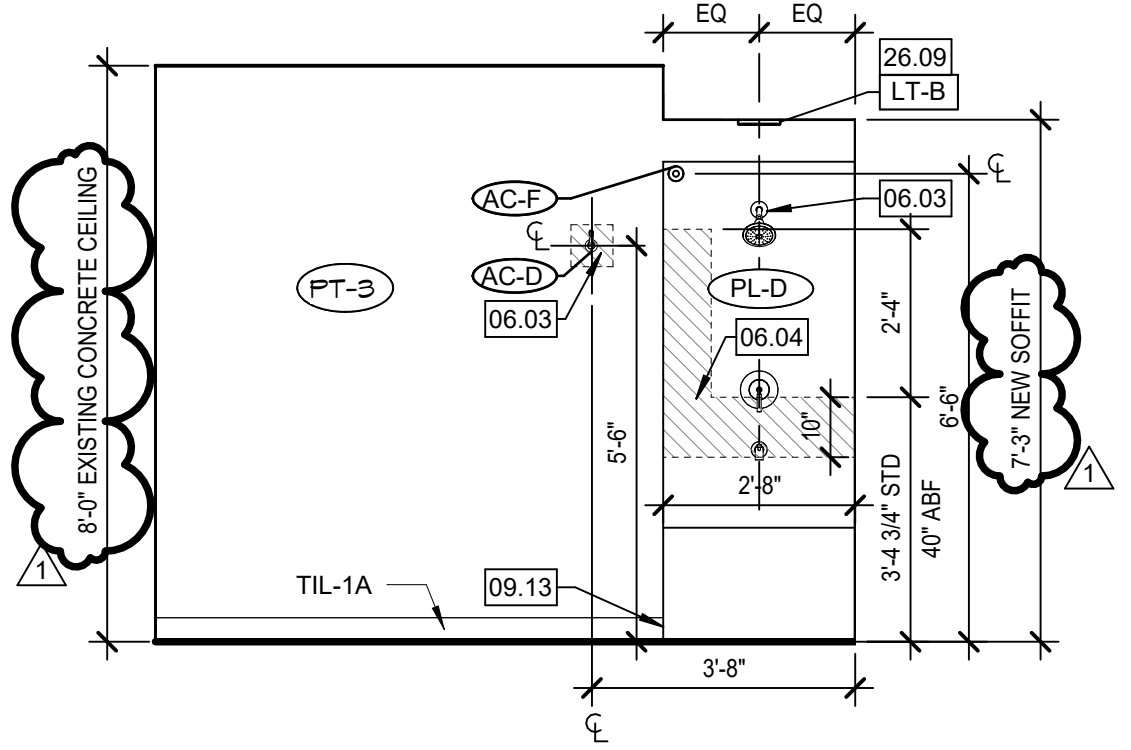
- LT-A 11" SURFACE MOUNT PUCK LIGHT
- LT-B 7" SURFACE MOUNT PUCK LIGHT - WET RATED
- LT-C ISLAND PENDANT
- LT-D 24" W Vanity Wall Sconce
- LT-E BATHROOM EXHAUST FAN
- LT-F TAPE LIGHT - OVER SINK



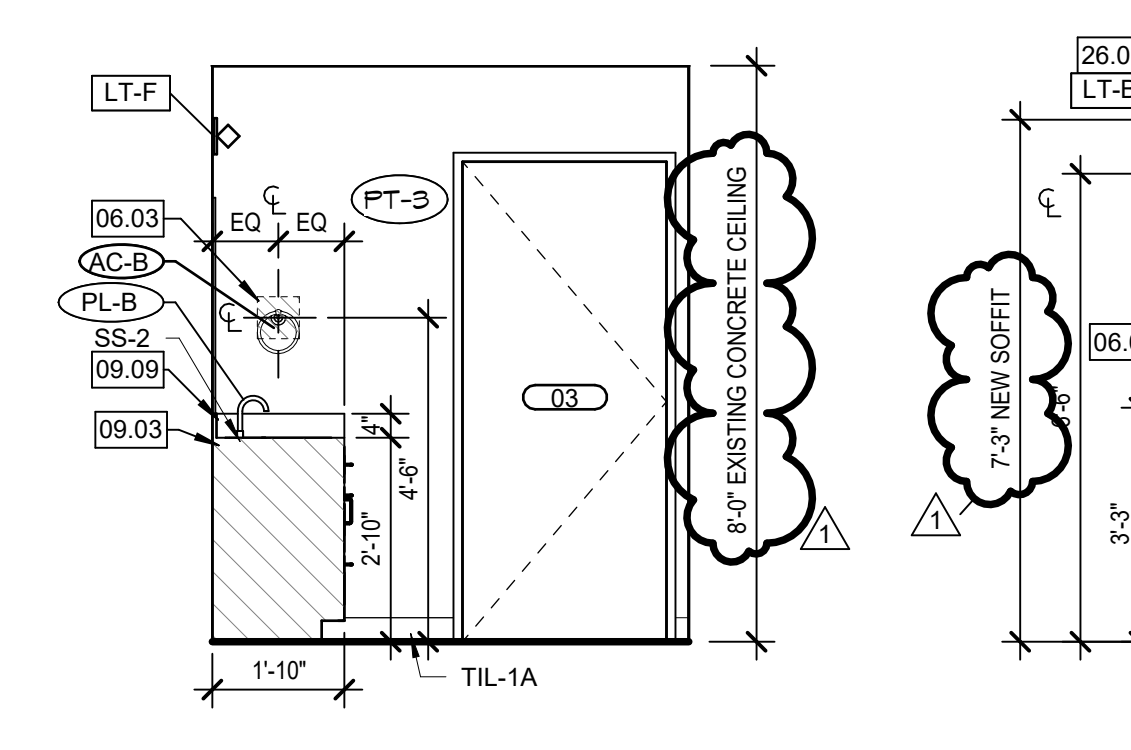
UNIT KEY PLAN - 1B



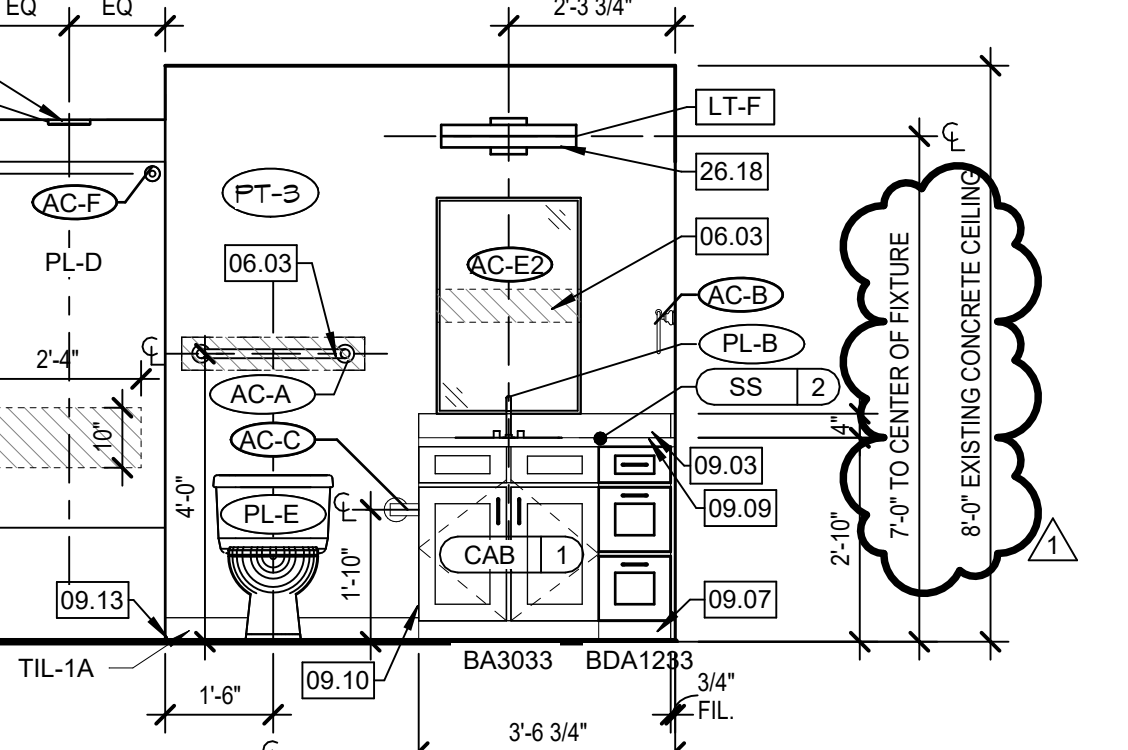
10 UNIT 1B BATH. ELEV. 3
SCALE: 3/8" = 1'-0"



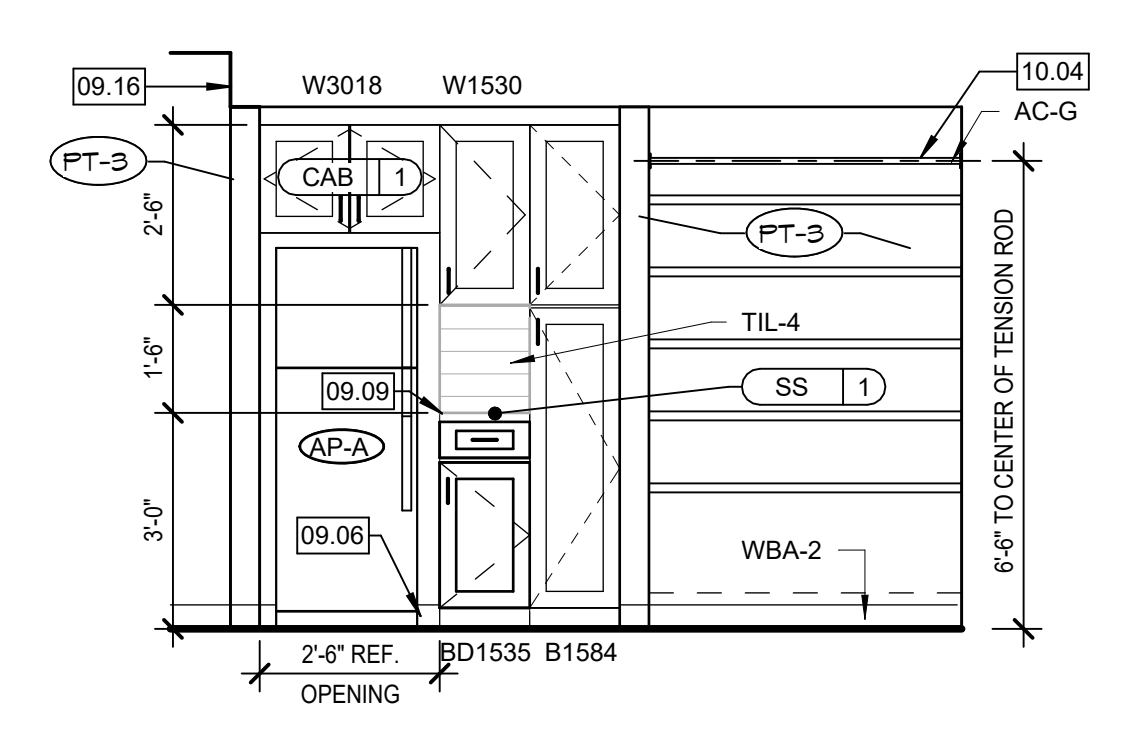
9 UNIT 1B BATH. ELEV. 2
SCALE: 3/8" = 1'-0"



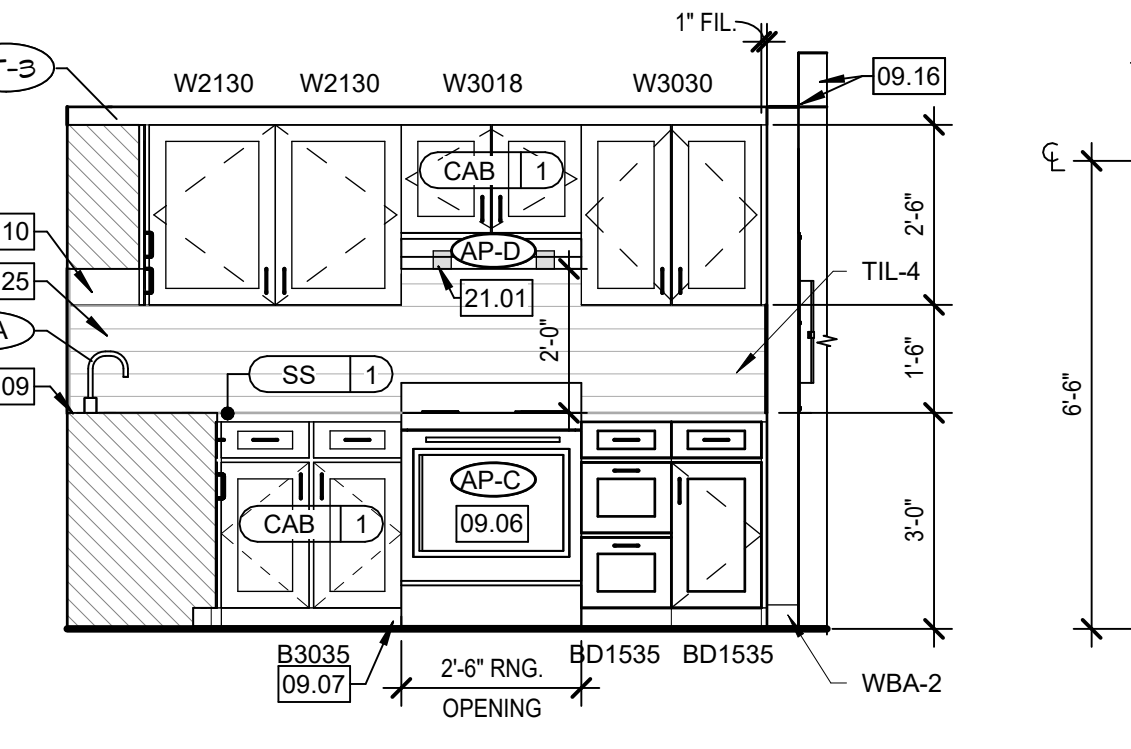
8 UNIT 1B BATH. ELEV. 1
SCALE: 3/8" = 1'-0"



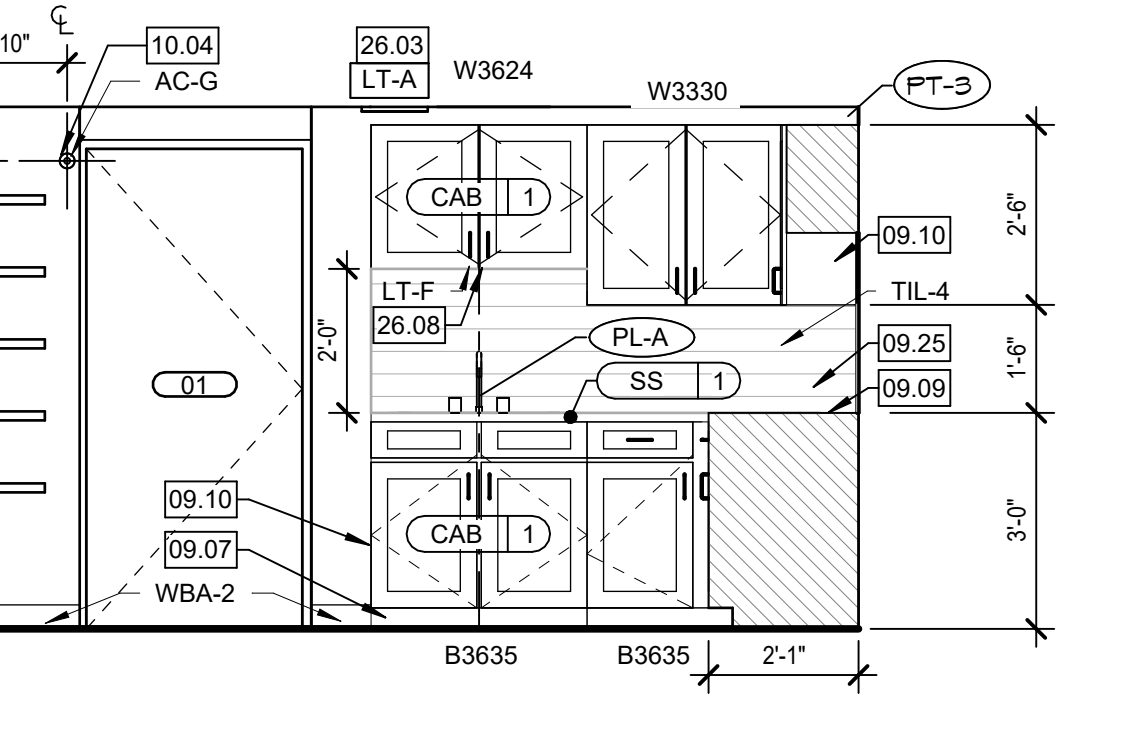
7 UNIT 1B BATH. ELEV. 4
SCALE: 3/8" = 1'-0"



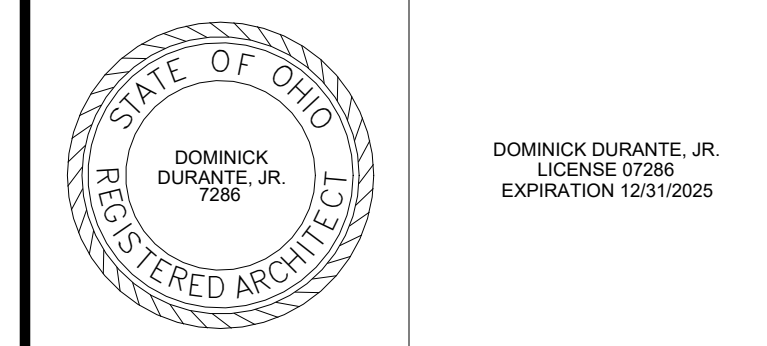
6 UNIT 1B KITCHEN ELEV. 3
SCALE: 3/8" = 1'-0"



5 UNIT 1B KITCHEN ELEV. 2
SCALE: 3/8" = 1'-0"



4 UNIT 1B KITCHEN ELEV. 1
SCALE: 3/8" = 1'-0"



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

ENLARGED UNIT PLAN - 1B

A6.02

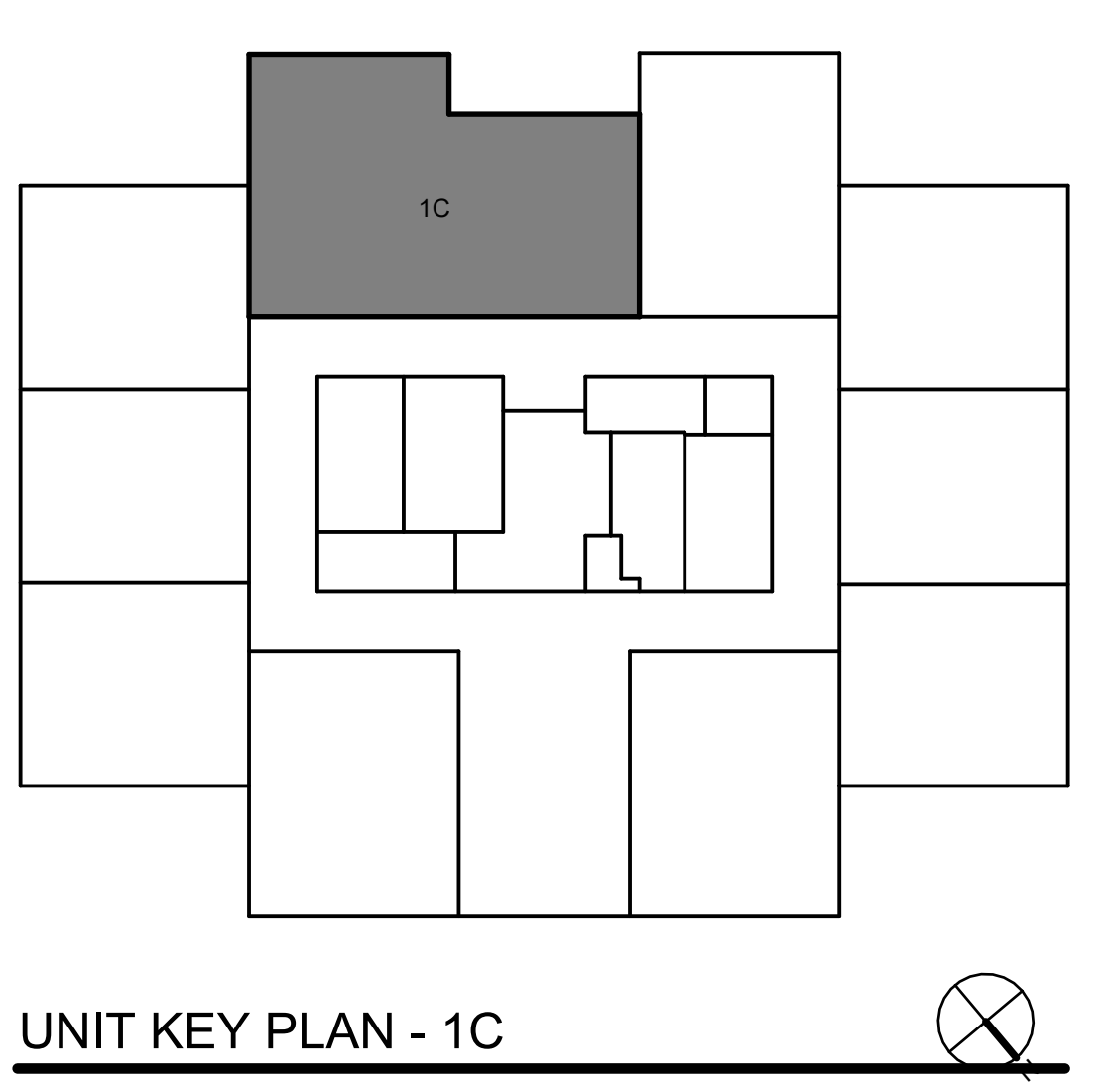
GENERAL NOTES - ENLARGED ACCESSIBLE UNIT PLANS

- REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
 - REFER TO SHEET G0.03 FOR ACCESSIBLE DETAILS TO FOLLOW.
 - THE FOLLOWING SCOPE OF WORK IS FOR ALL ACCESSIBLE UNITS UNLESS OTHERWISE NOTED; REFER TO PLANS FOR ADDITIONAL SCOPE.
- GENERAL UNIT:**
- REPAIR DRYWALL & WATER DAMAGE THROUGHOUT UNITS. INSULATE WHERE POSSIBLE.
 - PAINT ALL WALLS (EGGSHELL FINISH), CEILING & SOFFITS (FLAT FINISH), AND DOORS & TRIM (SATIN FINISH) WITH ONE COAT PRIMER AND 2 COATS PAINT.
 - PROVIDE ACCENT WALL IN LIVING. REFER TO FINISH SCHEDULE & ENLARGED UNIT PLANS.
 - ALL DRYWALL WALLS AND CEILING ARE TO RECEIVE LEVEL 4 FINISH PER STM C840 STANDARDS. USE TUFF-HIDE AT ALL JOINTS.
 - PROVIDE NEW ROOM SIGNAGE W/ BRAILLE AT CORRIDOR ON DOOR LEVER SIDE.
 - PROVIDE NEW GLUE-DOWN VINYL PLANK FLOORING THROUGHOUT UNIT - EXCEPT BATHROOM. PREP FLOOR PER MANUFACTURERS INSTALL REQUIREMENTS.
 - REMOVE ALL EXISTING FLOORING (CARPET, TILE, VCT, ETC.) THROUGHOUT UNIT DOWN TO CONCRETE/ SUB-FLOORING.
 - PROVIDE NEW WOOD BASE THROUGHOUT - EXCEPT BATHROOMS. REFER TO FINISH SCHEDULE WBA-2.
 - REPLACE ALL EXIST. LIGHT FIXTURES, OUTLETS, SWITCHES AND COVER PLATES. NEW SWITCHES, GFCI OUTLETS & COVER PLATES, ETC. TO BE LEGRAND RADIANT IN WHITE. LIGHT FIXTURES TO BE LED.
 - ALL TO BE INSTALLED AT ACCESSIBLE HEIGHTS.
 - PROVIDE NEW HARDWIRED COMBO COSMOK DETECTORS IN ALL UNITS. CONCEAL WIRING IN WIRE MOLDS AND PAINT TO MATCH CEILING. HVI AND MOBILITY UNITS TO RECEIVE STROBES.
 - INSTALL CARBON MONOXIDE DETECTORS IN ALL UNITS.
 - EXISTING WINDOW TREATMENTS TO REMAIN. REPLACE ALL MINI BLINDS. NEW BLINDS SHALL BE VINYL. INSTALL DOUBLE CURTAIN RODS.
 - INSTALL VENTED CLOSET SHELVING IN ALL CLOSETS (WHITE), TENSION ROD & CURTAINS TO BE INSTALLED ON ALL CLOSET AND PANTRY DOORS (CURTAINS PROVIDED BY OWNER).
 - TOP OF CLOSET SHELF AT 49" A.F.F.
 - BOTTOM OF LOWEST 5-SHELF UNIT 15" A.F.F.
 - EXIST. HANGERS, NAILS, ETC. IN WALLS AND CEILING TO BE REMOVED AND PATCHED.
 - PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURES.
 - INSTALL SANITARY CLEANOUT.
 - REPLACE ALL SEWER AND WATER LINES. PROVIDE WATER MAIN SHUT OFF VALVES FOR EACH RISER AND/OR BRANCH.
 - COVER CMU WALLS WITH DRYWALL. NEW DRYWALL PAINTED EGGSHELL FINISH.
 - REPLACE APARTMENT ENTRY DOORS. NEW DOORS ARE TO BE STAINED WOOD DOORS. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
 - REPLACE ALL INTERIOR DOORS WITH PAINTED SOLID CORE WOOD DOORS. REPLACE DOORFRAMES WITH METAL FRAMES. EXISTING FRAMES MAY REMAIN IF IN GOOD SHAPE AND INTERIOR WALLS REMAIN. PROVIDE NEW DOOR HARDWARE AND DOOR STOPS ON ALL DOORS.
 - INSTALL CARD ACCESS LOOKS ON ALL APARTMENT ENTRIES.
 - UPGRADE EXISTING ELECTRICAL SYSTEM. PROVIDE NEW MAIN INCOMING SERVICES AND FEEDS, IF NEEDED. WIRE MOLD WILL BE REQUIRED.
 - REPLACE WINDOW HEAT PUMPS.
 - EXISTING WINDOWS TO REMAIN. REPLACE ALL MINI BLINDS WITH NEW VINYL. BLINDS W/ 1 THROUGHOUT ALL UNITS. INSTALL DOUBLE CURTAIN RODS (PROVIDED BY OWNER).
 - ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING/ROOF FINISH.
 - COORDINATE FINAL CABINERY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.
- KITCHEN:**
- REPLACE SINK, FAUCET, AND APPLIANCES. NEW FRONT-CONTROL RANGES TO BE ELECTRICAL.
 - G.C. TO PROVIDE NEW APPLIANCES. CMHA MAINTENANCE TO DETERMINE A NUMBER OF OLD APPLIANCES TO SALVAGE. G.C. TO REMOVE/DISPOSE OF REMAINING APPLIANCES. CMHA TASKS TO BE REMOVED.
 - PROVIDE NEW SOLID SURFACE COUNTERTOP WITH SURFACE MOUNT SINKS AND ROLLED EDGES. INCLUDE 4" HIGH ROLLED BACKSPLASH & SIDESPLASH. SEALANT TOP OF BACKSPLASH TO MATCH COUNTERTOP.
 - PROVIDE NEW 30" WIDE VENTLESS RANGE HOOD IN STAINLESS STEEL FINISH. INSTALL 2 FIRESTOP CANISTERS UNDER HOOD.
 - PROVIDE ACCESSIBLE RANGE HOOD SWITCH ON FACE OF WORKSTATION IN ALL ACCESSIBLE UNITS.
 - PROVIDE NEW ENERGY STAR REFRIGERATOR IN STAINLESS STEEL FINISH.
 - PROVIDE NEW 30" WIDE ELECTRIC RANGE WITH ANTI-TIP BRACKETS W/ BLACK WHITE FINISH.
 - REMOVE EXIST. GREASE SHIELD AT RANGES AND PROVIDE NEW STAINLESS STEEL GREASE SHIELDS ON BOTH SIDES OF RANGES (BACK & SIDE WALL).
 - PROVIDE NEW CABINETS WITH ANSICQMA A161.1 CERTIFIED CABINETS.
 - PROVIDE LOOP HANDLES.
 - PROVIDE 33" WORKSTATION NEXT TO RANGE AT ALL ACCESSIBLE UNITS.
 - PROVIDE NEW TOP-MOUNT SINGLE-BOWL STAINLESS STEEL SINK.
 - PROVIDE NEW LEVER STYLE KITCHEN FAUCET (<2 GPM). PROVIDE ANTI-SCALD FAUCET.
 - PROVIDE BLOCKING AT KITCHEN CABINETS AS INDICATED BY MANUFACTURER.
- BATHROOM:**
- REPLACE FLOORING WITH NEW CERAMIC TILE FLOOR & COORDINATING TILE WALL BASE.
 - SEAL & CAULK PERIMETER OF FLOORING ALONG ENTIRE PERIMETER PRIOR TO INSTALLING BASE.
 - PROVIDE FLOOR DRAIN IN CENTER OF BATHROOM.
 - PROVIDE NEW COMFORT HEIGHT ADA COMPLIANT 28" LOW-FLOW TOILETS. INSTALL TO INCLUDE NEW WAX RING. CAULK PERIMETER OF TOILET AT FLOOR.
 - TUB SHOWER
 - PROVIDE NEW ROLL-IN SHOWER, INCLUDING SHOWER PAN. REFER TO ENLARGED UNIT PLANS.
 - PROVIDE NEW 4" CPN WATERSENSE LABEL SHOWERHEAD & HANDSHOWER.
 - INSTALL NEW PRESSURE-BALANCED LEVER FAUCET, STAINLESS COVER PANEL, AND MIXING VALVE.
 - PROVIDE NEW LEVER STYLE WATER-SENSE FAUCET WITH <1.5 GPM AT SINKS. PROVIDE PRESSURE-BALANCED FAUCET WITH ANTI-SCALD.
 - PROVIDE NEW CABINETS WITH ANSICQMA A161.1 CERTIFIED CABINETS & CULTURED MARBLE INTEGRAL OVAL SINK WITH ROLLED EDGES AND 4" BACKSPLASH & SIDESPLASH.
 - PROVIDE LOOP HANDLES.
 - SEALANT TOP OF BACKSPLASH TO MATCH COUNTERTOP.
 - PROVIDE ADA PANEL TO MATCH ADJACENT CABINET FINISH AT ALL ACCESSIBLE VANITY SINKS.
 - PROVIDE NEW LED VANITY LIGHT. CENTER ON SINK. COST TO INCLUDE CUTTING AND RUNNING OF NEW WIRE.
 - PROVIDE NEW ENERGY STAR EXHAUST FAN. PROVIDE NEW WIRING SO LIGHTING AND FAN ARE ON SEPARATE SWITCH. CLEANOUT EXIST DUCTS.
 - PROVIDE MIRROR, 18" TOWEL BAR, TOWEL RING, AND TOILET PAPER HOLDER, CHROME FINISH.
 - REFER TO ANSI DIAGRAMS, INTERIOR ELEVATIONS, & SCHEDULE SHEET.
 - PROVIDE BLOCKING IN BATHROOM WALLS TO ALLOW FOR INSTALLATION OF GRAB PERS.
- DOOR & DOOR HARDWARE:**
- UNIT ENTRY DOORS:
 - EXIST. FIRE-RATED ENTRY DOORS & FRAMES TO REMAIN (REFER TO A3).
 - REPLACE HANDLES WITH NEW HARDWARE.
 - PROVIDE BRUSHED ALUMINUM HANDLES.
 - PROVIDE REPLACEMENT OF ENTRY DOORS AS NOTED ON MATRIX. (FRAMES TO REMAIN).
 - PROVIDE BRUSHED ALUMINUM SWEEPERS AT ALL DOORS. BASIS OF DESIGN: PEMKO 18100 NB DOOR BOTTOM SWEEP. CLEAR ANODIZED ALUMINUM FINISH.
 - PAINT EXIST. DOOR FRAMES (BOTH SIDES). REFER TO FINISH SCHEDULE.
 - SAND, CLEAN, STAIN, AND PROVIDE 1" COAT OF POLYURETHANE (BOTH SIDES) AT EXIST. WOOD DOORS.
 - ENTRY DOORS TO BE EQUIPPED WITH A VIEWER AND BELL BUZZER.
 - BEDROOM & BATHROOM DOORS:
 - EXIST. DOORS AND HARDWARE TO BE REPLACED.
 - PRIME/PAIN EXIST. DOOR FRAMES (BOTH SIDES).
 - REPLACE DAMAGED DOORS WITH NEW PRE-HUNG SIX-PANEL HOLLOW-CORE DOORS AS NEEDED. REFER TO MATRIX.
 - CLOSET DOORS:
 - EXIST. DOORS TO REMAIN.
 - REPLACE DAMAGED DOORS WITH PRE-HUNG SIX-PANEL HOLLOW-CORE DOORS AS NEEDED. REFER TO MATRIX.
 - PROVIDE NEW HARDWARE TO ALL DOORS.
 - PRIME/PAINT EXIST. DOOR FRAME (BOTH SIDES).

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- DASHED LINE REPRESENTS CABINET/COUNTERTOP BELOW.
- PROVIDE WOOD BLOCKING FOR INSTALLATION OF GRAB BARS TO FULLY COMPLY WITH ANSI A117.1.
- PROVIDE WOOD BLOCKING FOR BATHROOM FIXTURE. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
- PROVIDE BLOCKING FOR SHOWER SEAT.
- PROVIDE AND INSTALL CONTINUOUS 4" H BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS. SEE FINISH SCHEDULE FOR SPECIFICATIONS.
- PROVIDE ADA PANEL FINISHED TO MATCH ADJACENT CABINET AND TO MEET ANSI TYPE A REQUIREMENTS. WALL BASE, WALL COLOR, AND FLOORING ARE TO BE CONTINUED UNDER PANEL. INSTANCES ACCESSIBLE SINK MUST HAVE PIPES WRAPPED WITH INSULATION.
- G.C. TO FINISH WALL AND BASE AT ADA PANEL. TYP.
- G.C. TO FINISH WALL AND BASE BEHIND RANGE AND REFRIGERATOR. TYP. ALL UNIT AND COMMON AREA KITCHEN.
- PROVIDE 9" CABINET TOE KICK TO MATCH CABINERY FINISH IN ANSI TYPE A UNITS ONLY. CUT TO LENGTH IF NEEDED.
- PROVIDE AND INSTALL SILICONE JOINT BETWEEN SOLID SURFACE AND BACKSPLASH TILE. COLOR TO MATCH COUNTERTOP COLOR.
- FINISH CABINET SIDE PANEL.
- IN-WALL BRACKETS PROVIDED AND INSTALLED FOR SUPPORT OF COUNTERTOP OVERHANG PER COUNTERTOP MANUFACTURER.
- INSTALL WALL-MOUNTED COUNTERTOP SUPPORTS AT FLOATING COUNTERTOP.
- INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.
- ALIGN NEW CEILING WITH EXISTING WALL AND CEILING HEIGHT. PAINT PT-1.
- INSTALL TRANSITION STRIP AT EDGE OF WALL TILE. SEE TRANSITION DETAILS.
- INSTALL 2"x8" CERAMIC TILE AT BACKSPLASH AND SIDEWALL OF ALL UNIT KITCHENS. STACK HORIZONTALLY AND ALIGN GROUT JOINTS. INCLUDE SCHLUTER JOLLY TRANSITION. CHROME FINISH. AT EXPOSED EDGE AND TOP.
- EXISTING CONCRETE CEILING TO REMAIN. CLEAN/REPAIR AS NEEDED AND PAINT PT-1.
- DEMO EXISTING GYP. CEILING.
- CLEAN/REPAIR EXISTING CONCRETE CEILING AS NEEDED AND PAINT PT-1.
- DASHED LINE INDICATES EXTENTS OF WALL TO BE REPLACED WITH 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO CEILING IF REMOVAL OF EXISTING GYPSUM IS REQUIRED TO REPLACE EXISTING PLUMBING STACKS.
- PROVIDE 2" VINYL BLINDS AT ALL UNIT WINDOWS. REFER TO FINISH SCHEDULE FOR SPECIFICATION W/1.
- PROVIDE ADJUSTABLE TENSION ROD AT ALL CLOSETS. WITCHED CURTAIN TO BE PROVIDED BY OWNER.
- PROVIDE DOUBLE DRAPERY ROD AT ALL UNIT WINDOWS. REFER TO ACCESSORY SCHEDULE. CURTAIN PROVIDED BY TENANT.
- PROVIDE AND INSTALL (2) FIRE CANISTERS AT EACH RANGEHOOD.
- PROVIDE FLOOR DRAIN IN ALL UNITS. MIN. SLOPE 1/4" PER FOOT. SEE PLUMBING DRAWINGS.
- LOCATION OF EXISTING KITCHEN VENTILATION. EXHAUST GRILL TO BE REPLACED. EXISTING DUCTWORK AND GRILL TO BE RELOCATED TO ACCOMMODATE NEW KITCHEN LAYOUT.
- LOCATION OF EXISTING BATHROOM VENTILATION. EXHAUST GRILL TO BE REPLACED. EXISTING DUCTWORK AND GRILL TO BE RELOCATED TO ACCOMMODATE NEW BATHROOM LAYOUT. REFER TO MECHANICAL DRAWINGS.
- PROVIDE SWITCHED OUTLET IN BEDROOMS AND LIVING ROOM WHERE NO OVERHEAD LIGHT IS LOCATED. TYPICAL ALL UNITS.
- CENTER FIXTURE IN ROOM.
- CENTER FIXTURE ON VANITY.
- ACCESSIBLE HOOD SWITCH TO BE INCLUDED AT FACE OF WORKSTATION IN ALL ACCESSIBLE UNITS.
- ACCESSIBLE SWITCH TO UNDERCABINET LIGHT TO BE INSTALLED AT FACE OF ADA PANEL AT ALL ACCESSIBLE UNITS.



UNIT KEY PLAN - 1C

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

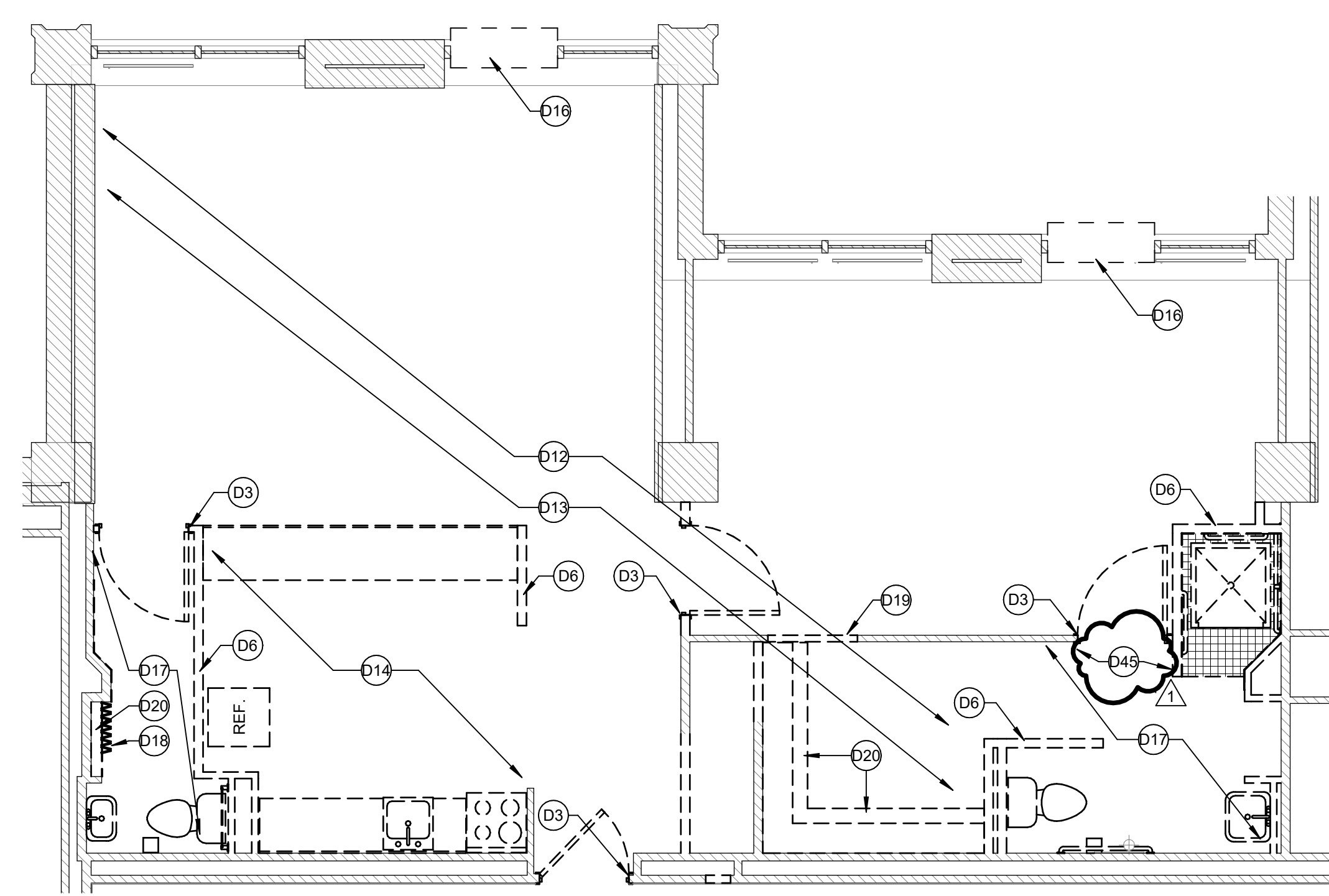
- CENTER FIXTURE ON KITCHEN SINK.
- CENTER FIXTURE ON SHOWER.
- CENTER FIXTURE ON DOOR/OPENING.
- CENTER FIXTURE ON WATER CLOSET.
- PROVIDE NEW LIGHT SWITCH OUTSIDE OF WALK-IN CLOSET IN ACCESSIBLE UNIT. INSTALL AT ACCESSIBLE HEIGHT.
- CENTER FIXTURE ON LAVATORY SINK AND MIRROR.
- LOCATION OF NEW UNIT LOAD CENTER. REFER TO ELECTRICAL DRAWINGS.
- REMOVE EXISTING DOOR FRAME AND HARDWARE IN ITS ENTIRETY.
- REMOVE EXISTING WALL IN ITS ENTIRETY UP TO STRUCTURAL DECK.
- REMOVE ALL EXISTING FLOORING AND VINYL BASE IN ENTIRE DWELLING UNIT. PREPARE SUBFLOOR TO RECEIVE NEW FLOORING.
- REMOVE ALL EXISTING LIGHT FIXTURES IN ENTIRE DWELLING UNIT.
- REMOVE IN-WINDOW HEAT PUMP UNIT. EXISTING ASSOCIATED DUCTWORK TO REMAIN AND BE CLEANED.
- REMOVE ALL EXISTING TILE FLOORING, BASE, PLUMBING FIXTURES, GRAB BARS, AND MIRRORS FROM BATHROOM.
- REMOVE EXISTING ACCORDIAN DOOR AND ASSOCIATED TRACK, FRAME AND HARDWARE.
- REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW DOOR. REFER TO DOOR SCHEDULE FOR SCHEDULE SIZE.
- REMOVE ALL EXISTING CLOSET SHELVING.
- REMOVE PORTION OF EXISTING GYP. CEILING TO ALIGN WITH NEW CLOSET LOCATION.

CEILING LEGEND

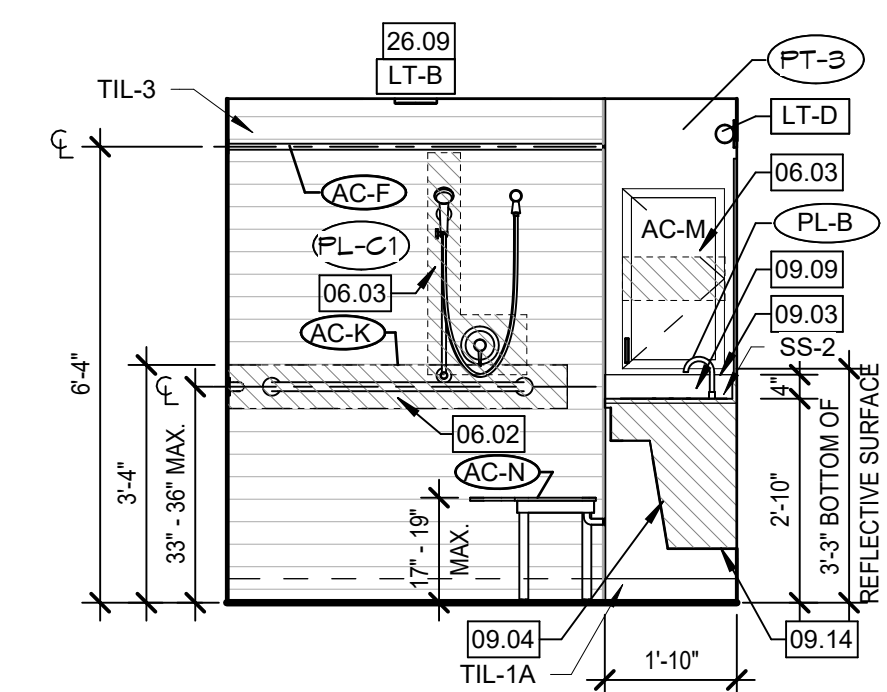
- EXISTING CEILING TO REMAIN; PAINT PT-1
- NEW GYP. BD. CEILING TO BE ALIGN WITH EXISTING CEILING HEIGHT; PAINT PT-1
- EXISTING GYP. BD. CEILING TO REMAIN; PT-1

UNIT CEILING FIXTURE LEGEND

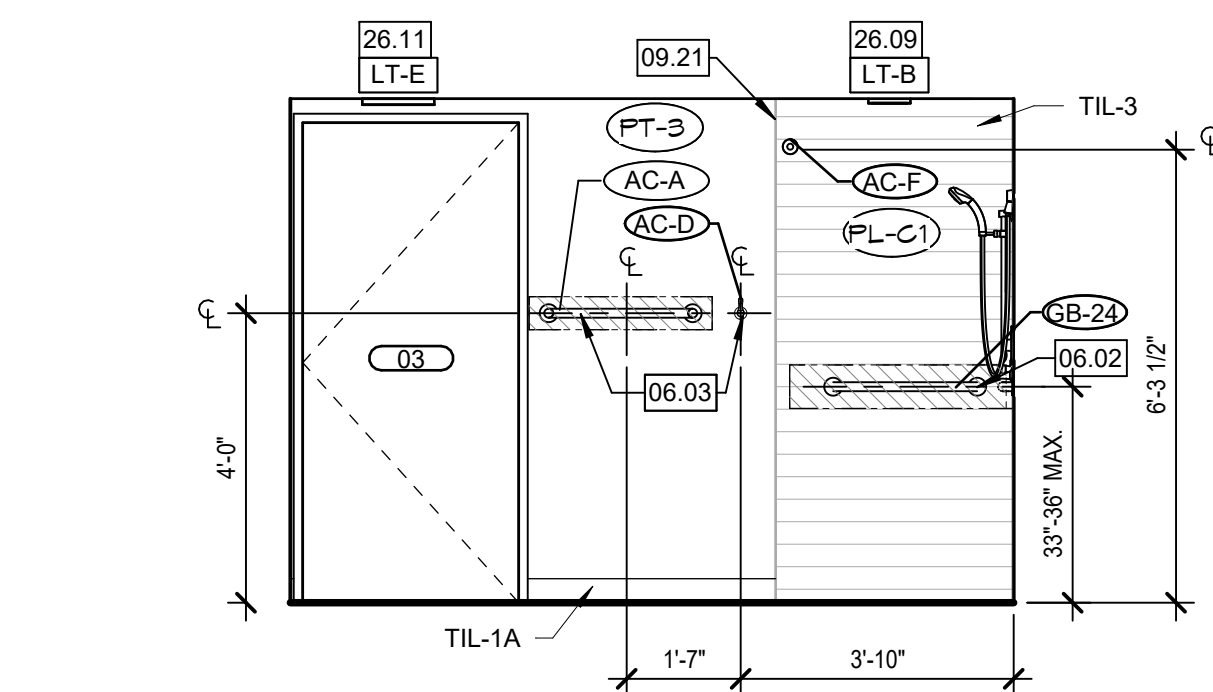
- LT-A 11" SURFACE MOUNT PUCK LIGHT
- LT-B 7" SURFACE MOUNT PUCK LIGHT - WET RATED
- LT-C ISLAND PENDANT
- LT-D 24"W VANITY WALL SCONCE
- LT-E BATHROOM EXHAUST FAN
- LT-F TAPE LIGHT - OVER SINK



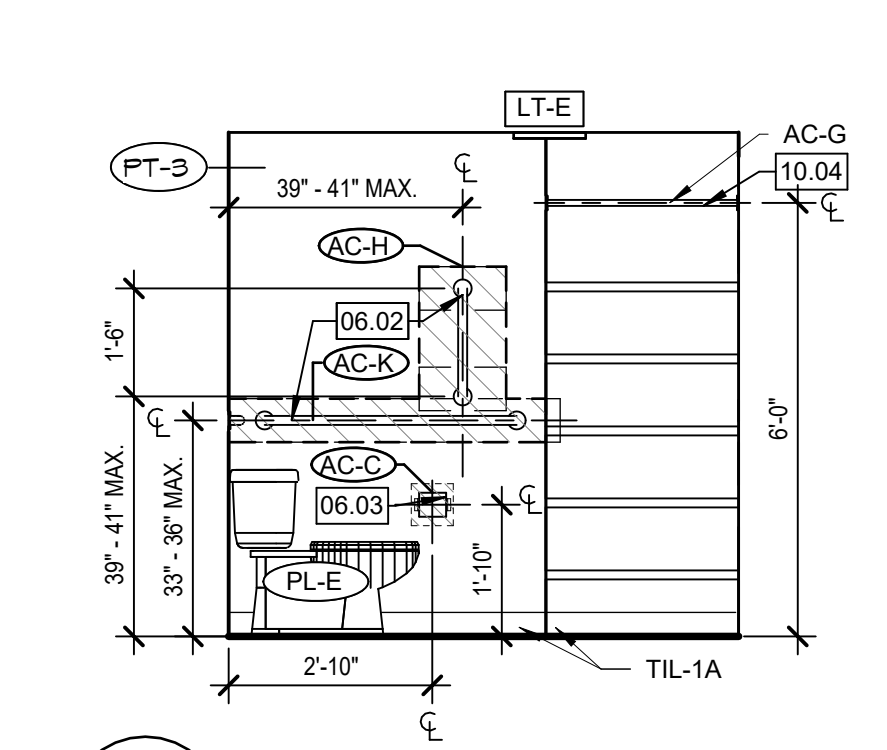
2 UNIT 1 C - DEMO (CD)
SCALE: 1/4" = 1'-0"



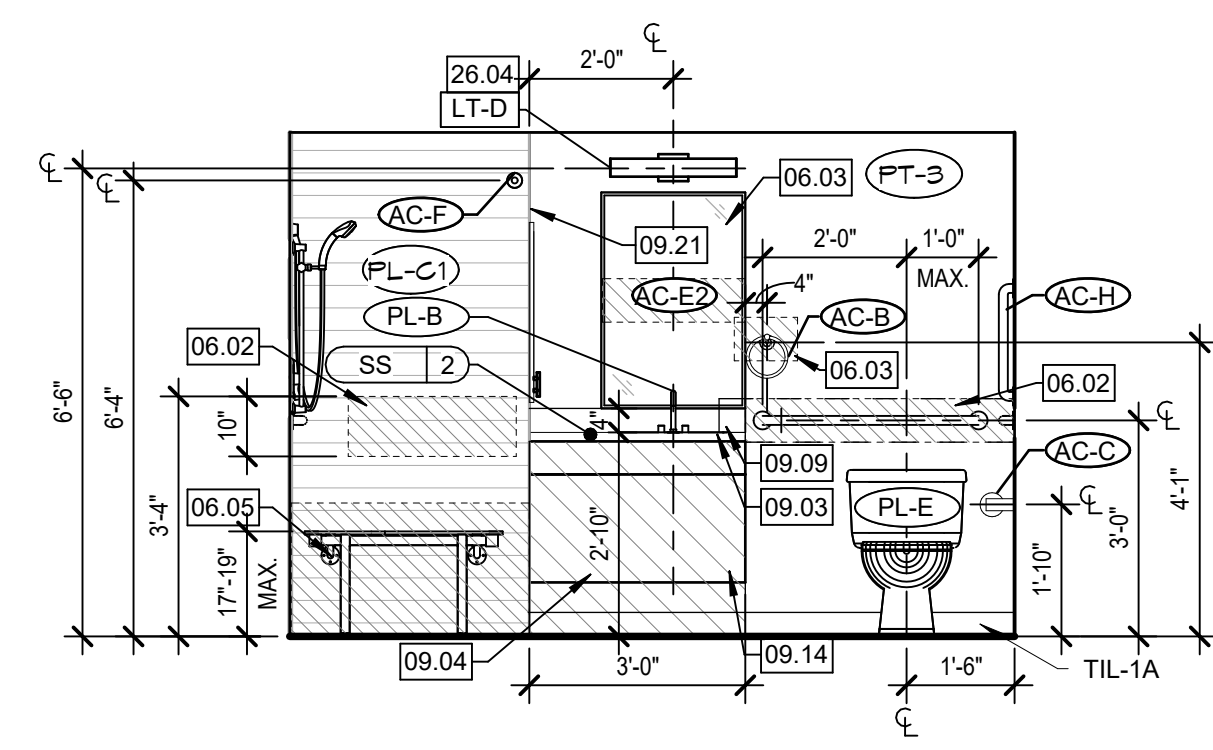
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SCALE: 3/8" = 1'-0"



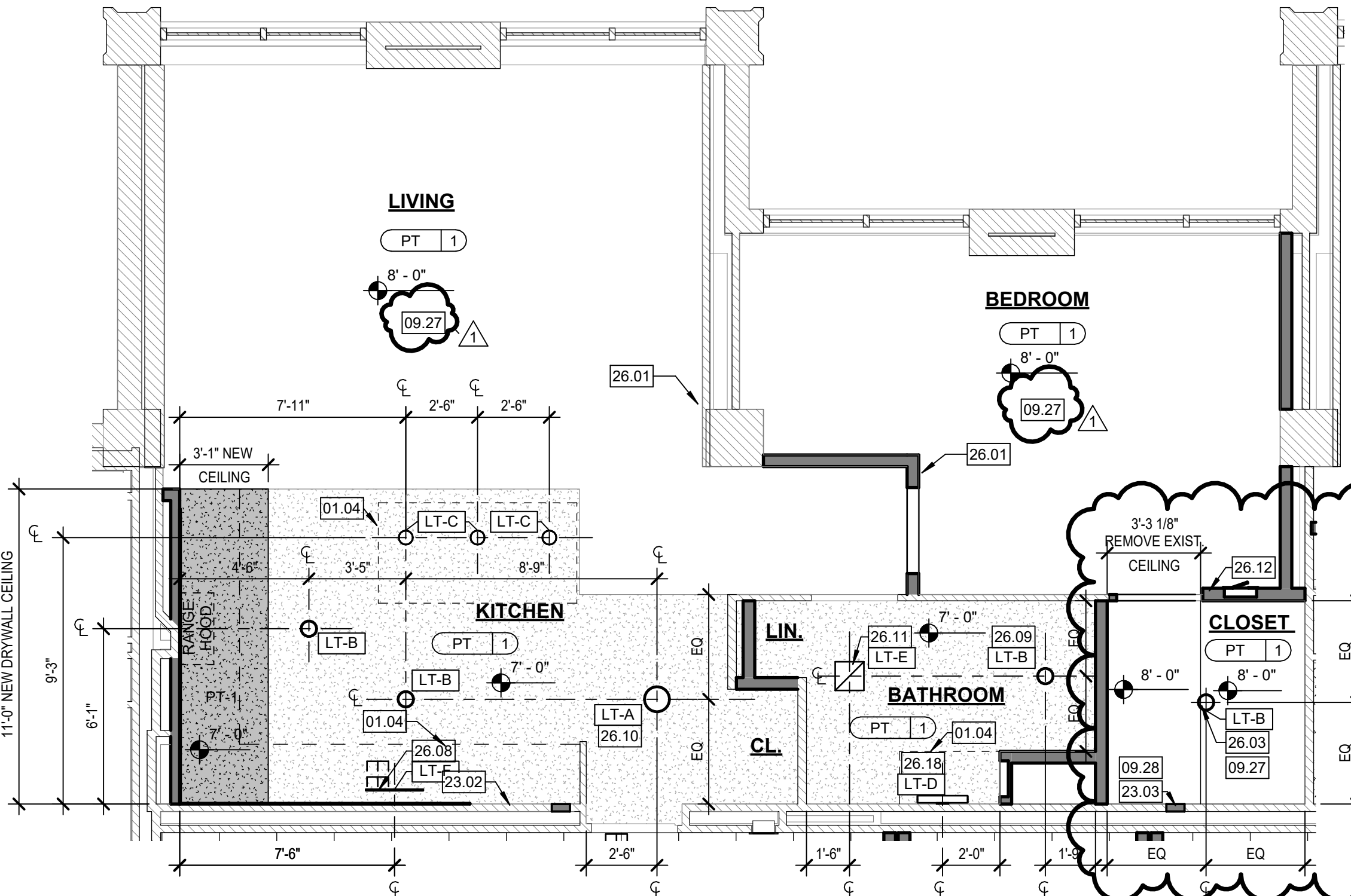
9 UNIT 1C BATH. ELEV. 3
SCALE: 3/8" = 1'-0"



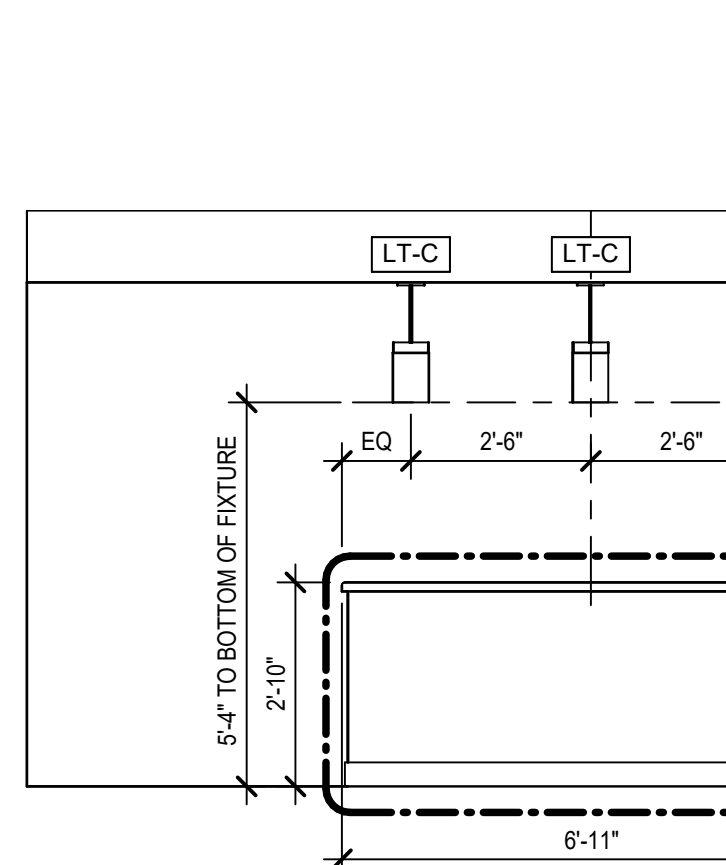
8 UNIT 1C BATH. ELEV. 2
SCALE: 3/8" = 1'-0"



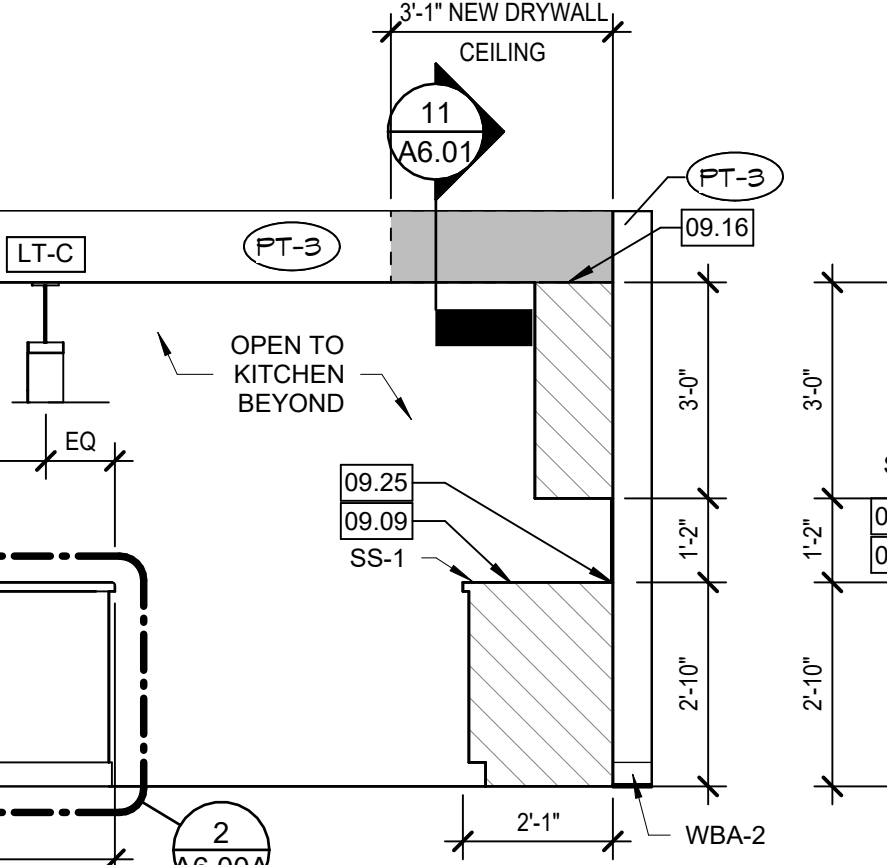
7 UNIT 1C BATH. ELEV. 1
SCALE: 3/8" = 1'-0"



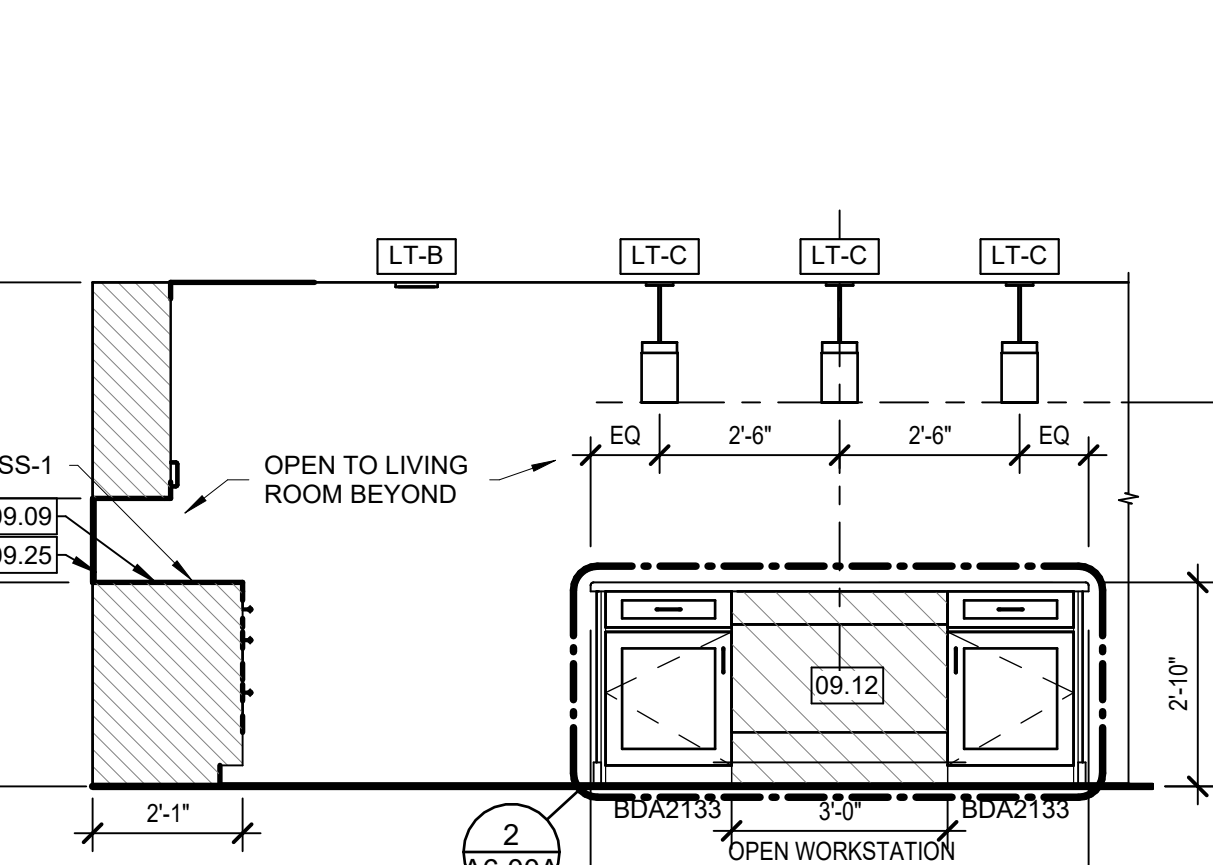
3 UNIT 1C - RCP
SCALE: 1/4" = 1'-0"



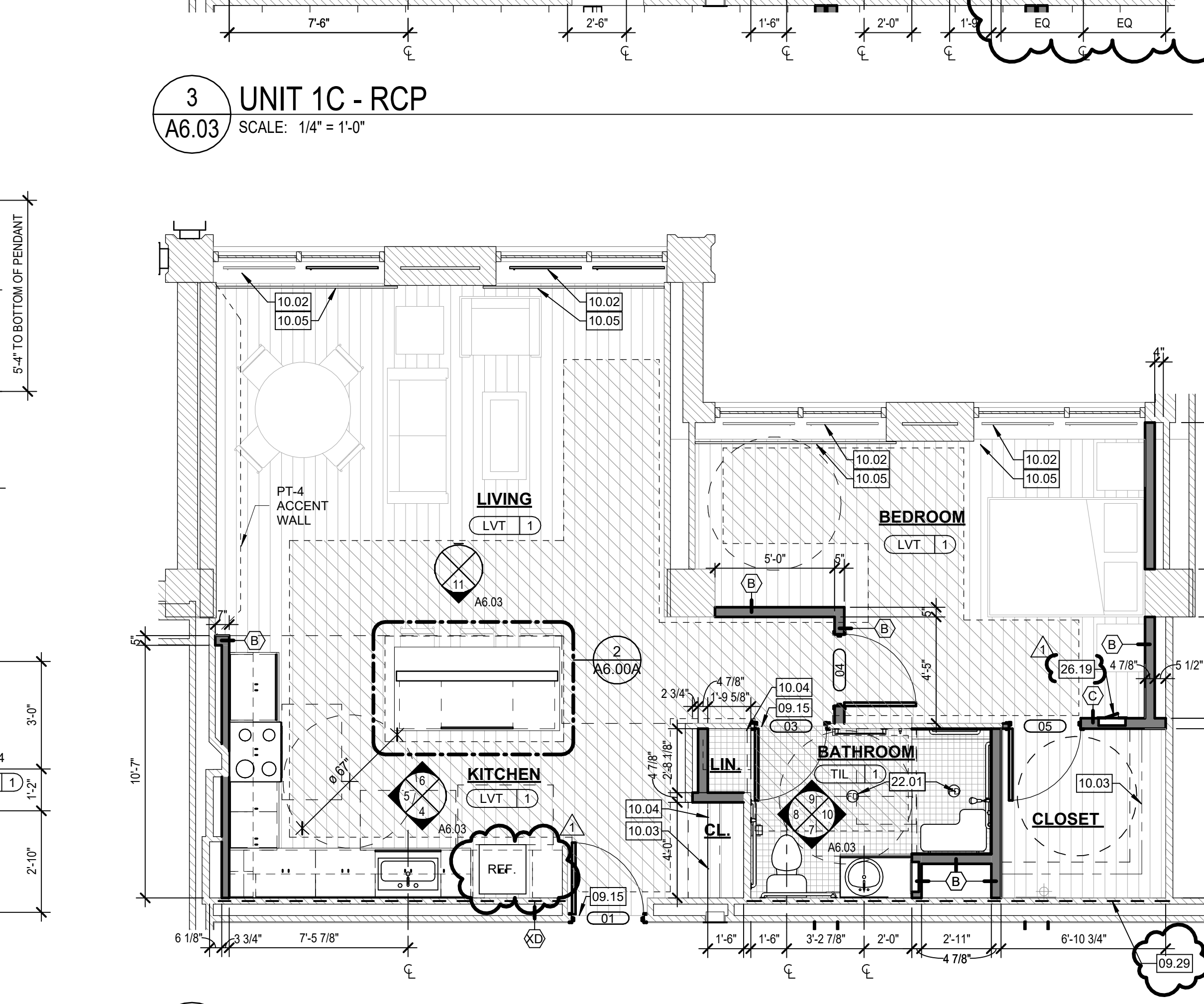
11 UNIT 1C KITCHEN ELEV. 4
SCALE: 3/8" = 1'-0"



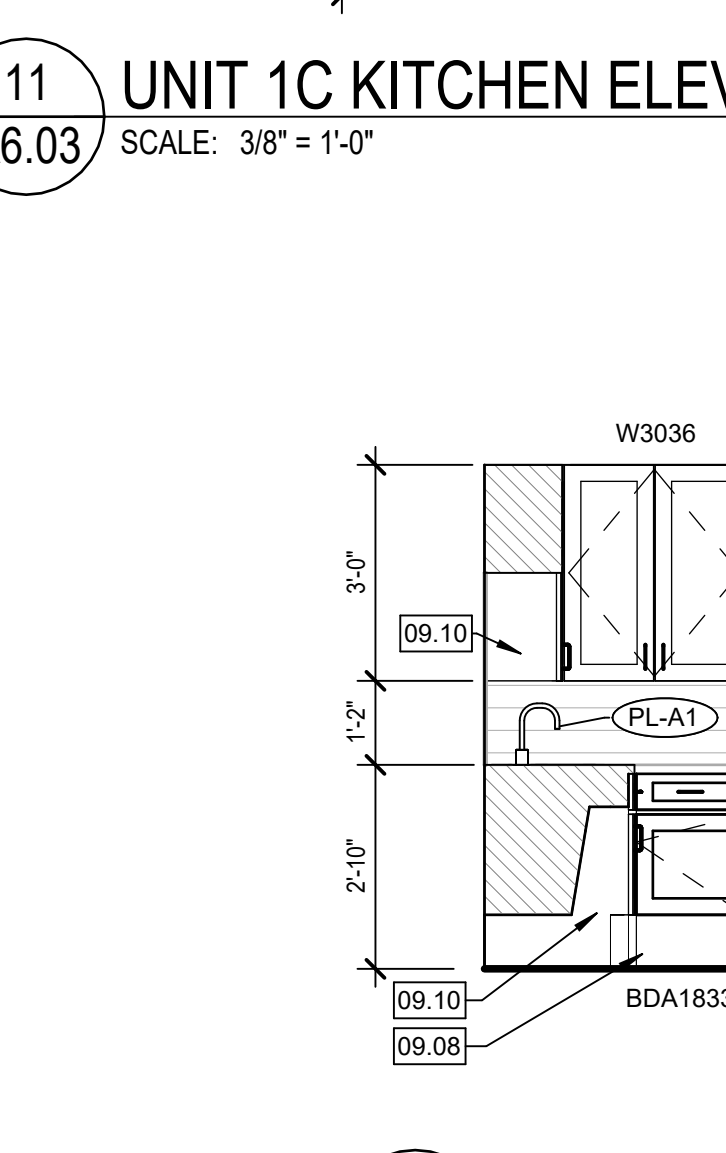
6 UNIT 1C KITCHEN ELEV. 3
SCALE: 3/8" = 1'-0"



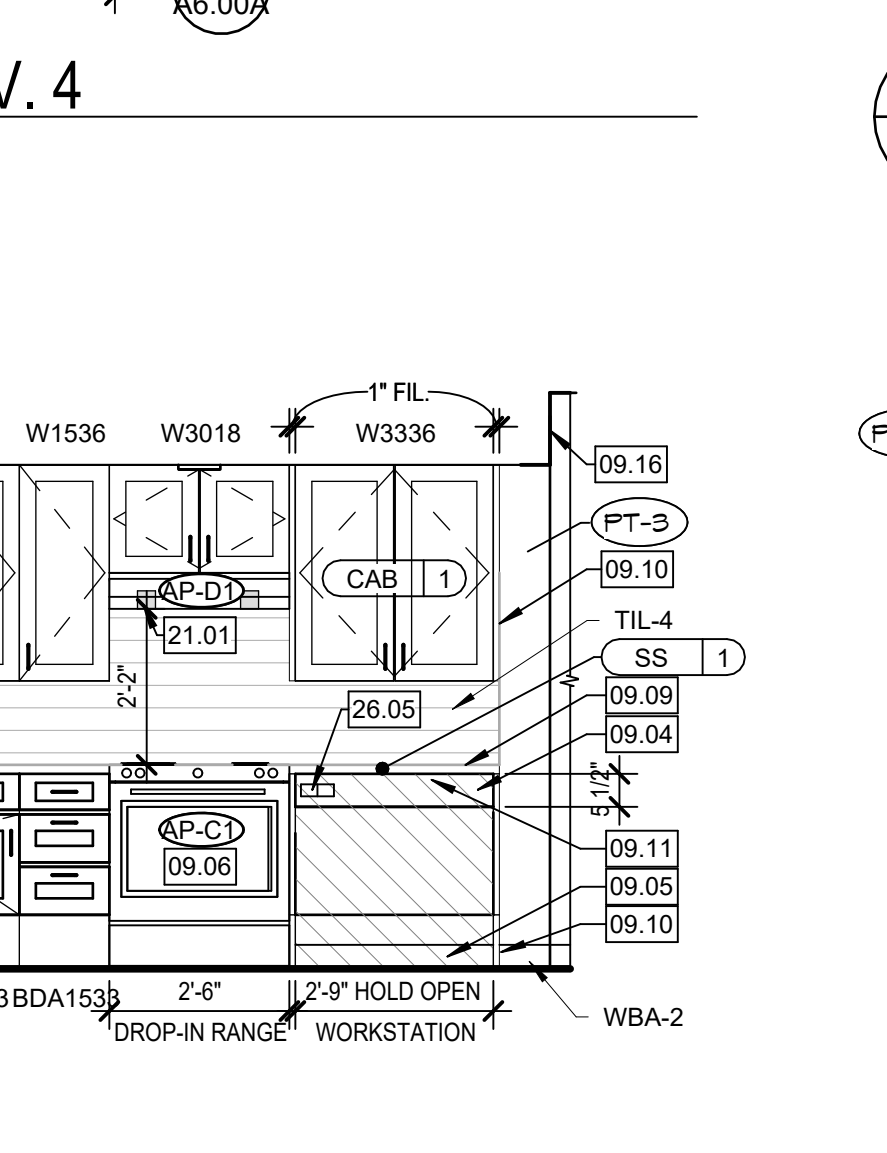
5 UNIT 1C KITCHEN ELEV. 2
SCALE: 3/8" = 1'-0"



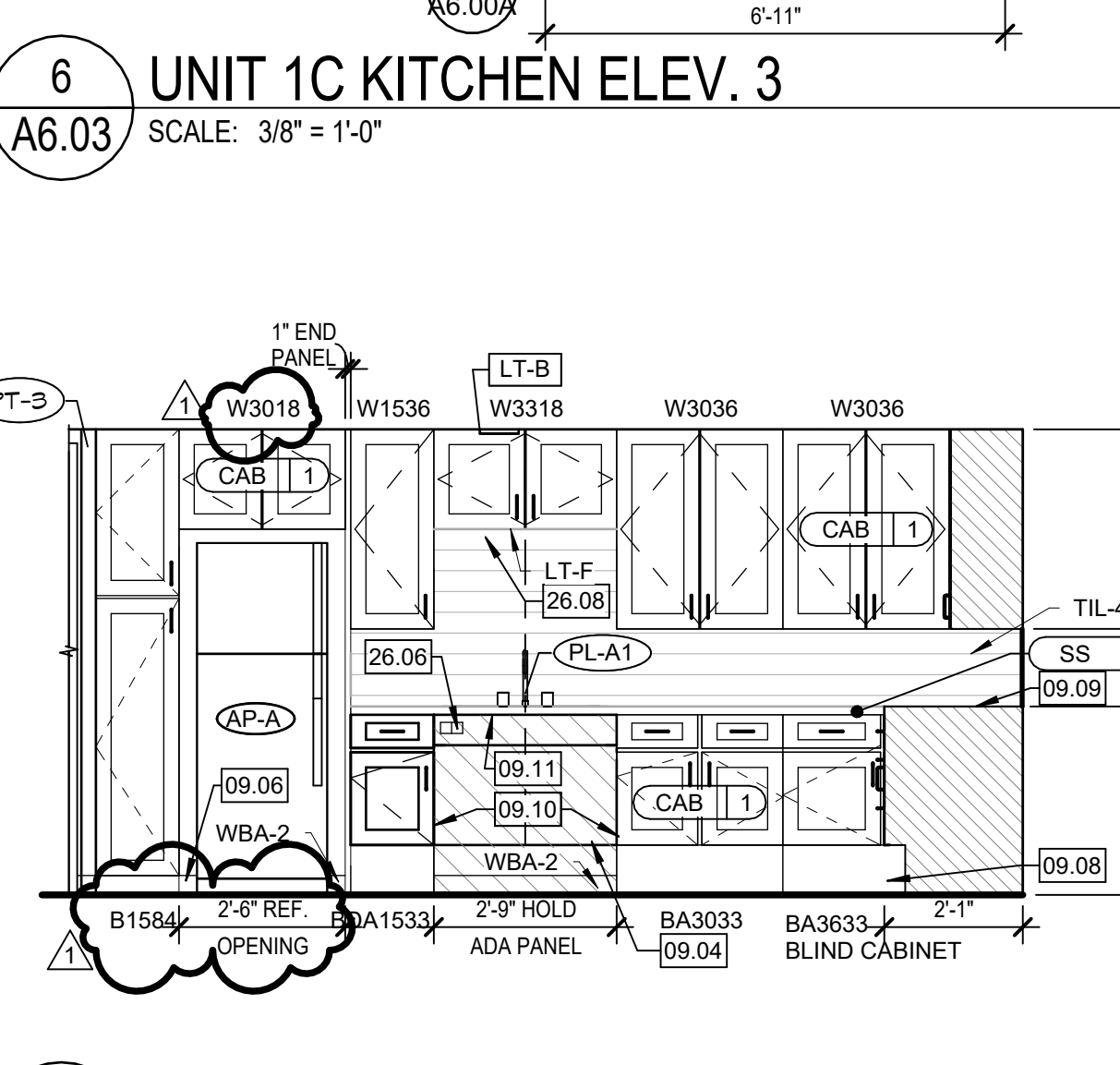
1 UNIT 1 C - PROPOSED (CD)
SCALE: 1/4" = 1'-0"



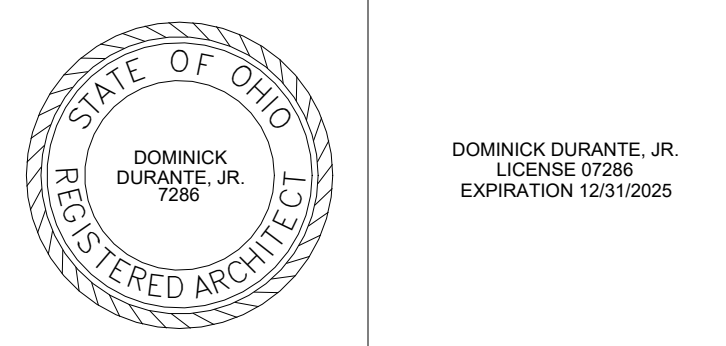
4 UNIT 1C KITCHEN ELEV. 1
SCALE: 3/8" = 1'-0"



5 UNIT 1C KITCHEN ELEV. 2
SCALE: 3/8" = 1'-0"



6 UNIT 1C KITCHEN ELEV. 3
SCALE: 3/8" = 1'-0"



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Suttner Avenue, Cincinnati, OH 45225

LDA Project No. 23.47

| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

FLOOR PLAN LEGEND

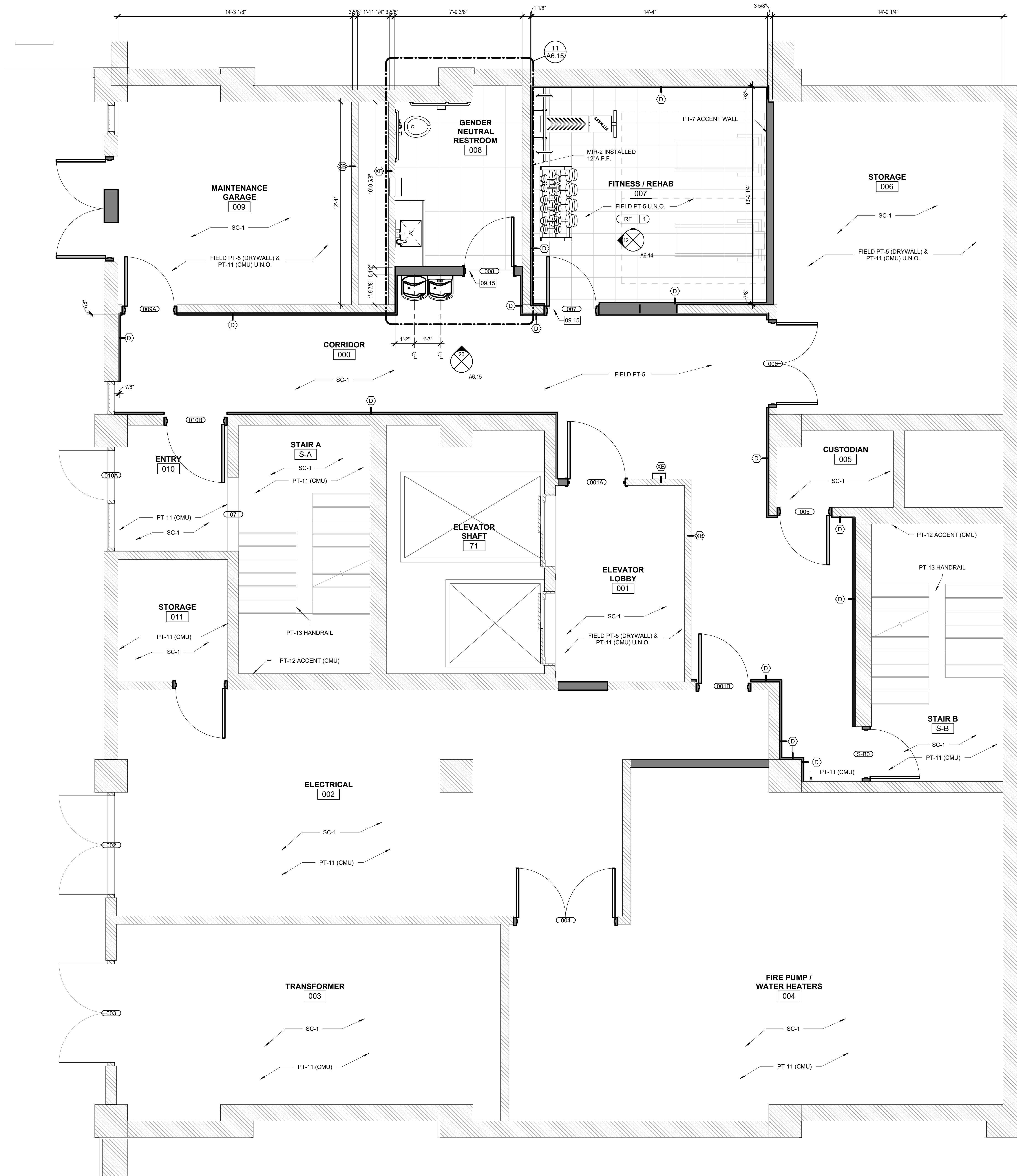
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

GENERAL NOTES: COMMON AREA

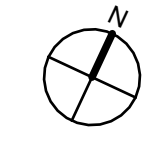
1. REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
- 1A. REFER TO A1.00 SERIES FOR SCOPE OF WORK PER FLOOR.
2. SEE A7.00 SERIES FOR INTERIOR SCHEDULES AND A8.00 SERIES FOR INTERIOR DETAILS.
3. ALL FURNITURE & BUILT-IN SEATING IS FOR REFERENCE ONLY. TO BE PROVIDED BY OWNER.
4. PROVIDE TRANSITION STRIP WHERE FLOOR OR WALL FINISH MATERIAL CHANGES. REFER TO TRANSITION DETAILS AX.XX.
5. COORDINATE FINAL CABINETRY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.
6. ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING FINISH.
7. REFER TO FLOOR PLANS, FINISH PLANS, & INTERIOR ELEVATIONS FOR ADDITIONAL SCOPE.

KEYED NOTES SPECIFIC TO THIS SHEET

- REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE
- 09.15 INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.



1
A6.10 OVERALL BASEMENT LEVEL FINISH PLAN
SCALE: 3/8" = 1'-0"



STATE OF OHIO
REGISTERED ARCHITECT
DOMINICK DURANTE, JR.
LICENSE #7296
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

BASEMENT FINISH PLAN

A6.10

| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

FLOOR PLAN LEGEND

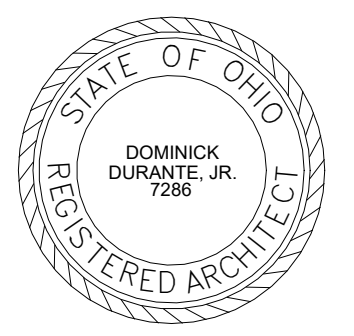
- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

GENERAL NOTES: COMMON AREA

1. REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
- 1A. REFER TO A1.00 SERIES FOR SCOPE OF WORK PER FLOOR.
2. SEE A7.00 SERIES FOR INTERIOR SCHEDULES AND A6.00 SERIES FOR INTERIOR DETAILS.
3. ALL FURNITURE & BUILT-IN SEATING IS FOR REFERENCE ONLY. TO BE PROVIDED BY OWNER.
4. PROVIDE TRANSITION STRIP WHERE FLOOR OR WALL FINISH MATERIAL CHANGES. REFER TO TRANSITION DETAILS AX-XX.
5. COORDINATE FINAL CABINETRY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.
6. ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING FINISH.
7. REFER TO FLOOR PLANS, FINISH PLANS, & INTERIOR ELEVATIONS FOR ADDITIONAL SCOPE

KEYED NOTES SPECIFIC TO THIS SHEET

- REFERENCED BY THE SYMBOL
- TYPICAL UNLESS NOTED OTHERWISE
- 08.01 AUTOMATIC DOOR OPERATOR PUSH PLATE. REFER TO SPECIFICATIONS.
 - 08.02 POLE MOUNTED AUTOMATIC DOOR OPERATOR PUSH PLATE. REFER TO SPECIFICATIONS.
 - 09.11 IN-WALL BRACKETS PROVIDED AND INSTALLED FOR SUPPORT OF COUNTERTOP OVERHANGS PER COUNTERTOP MANUFACTURER.
 - 09.15 INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.
 - 10.06 PROVIDE 3% OPEN MOTORIZED SHADES AT ALL COMMON AREA WINDOWS. REFER TO FINISH SCHEDULE.
 - 26.13 PROVIDE POWER & SUPPORT FOR CONFERENCE ROOM TV LOCATION. VERIFY TV SIZE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
 - 26.14 PROVIDE POWER & SUPPORT IN RECESSED NICHE FOR COMMUNITY ROOM TV LOCATION. VERIFY TV SIZE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
 - 26.15 PROVIDE FLOOR & WALL OUTLETS FOR OFFICE FURNITURE. COORDINATE LOCATIONS & QUANTITY WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
 - 26.16 PROVIDE OUTLET FOR FUTURE VENDING. COORDINATE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
 - 26.17 PROVIDE FLOOR OUTLET AT CENTER OF CONFERENCE ROOM TABLE. REFER TO ELECTRICAL PLANS.



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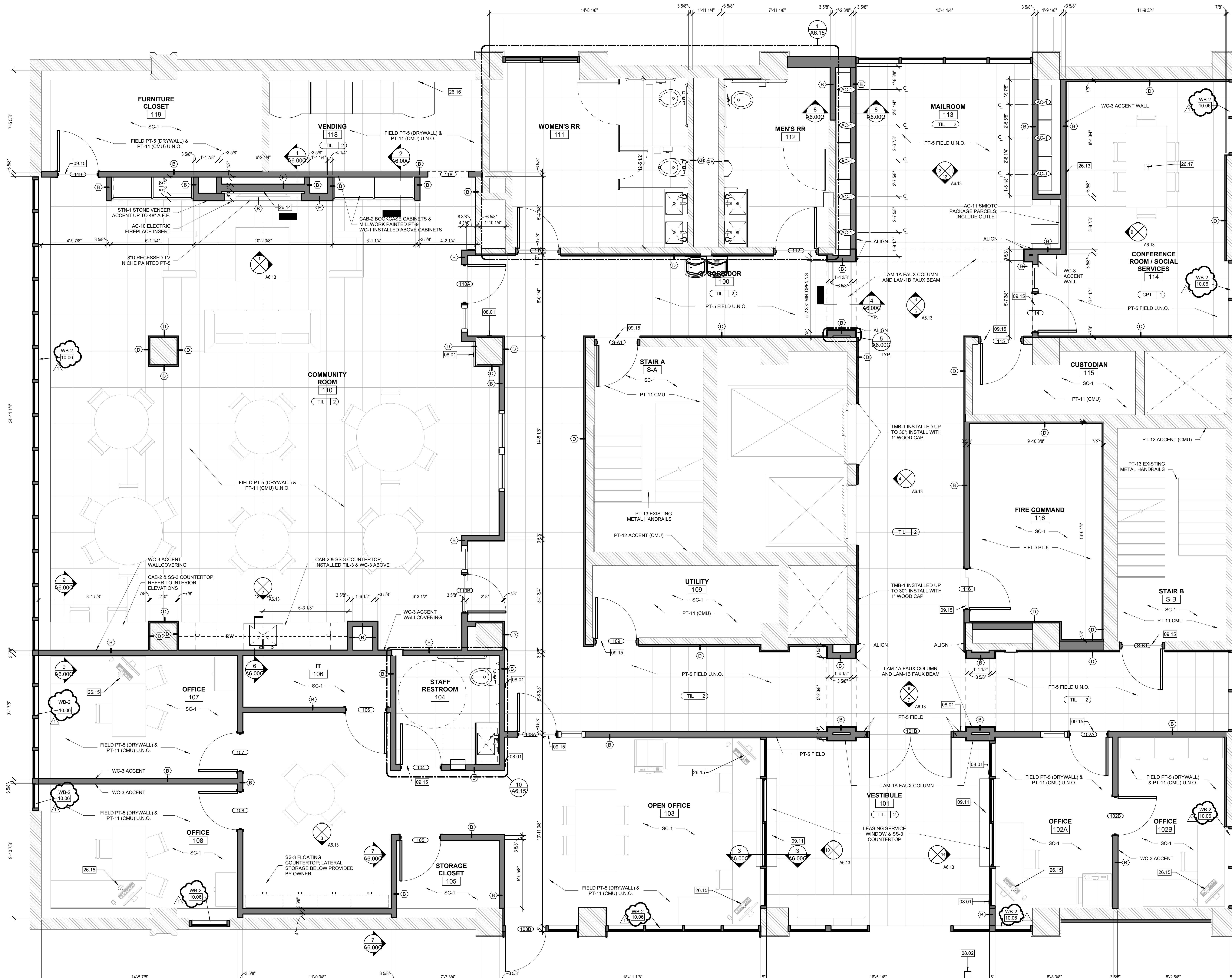
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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

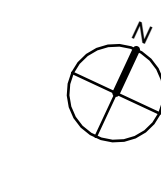
LDA Project No.23.47

GROUND FLOOR FINISH PLAN

A6.11



1 GROUND FLOOR FINISH PLAN
SCALE: 3/8" = 1'-0"



| REV | DATE | DESCRIPTION |
|------------|------|----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S- OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

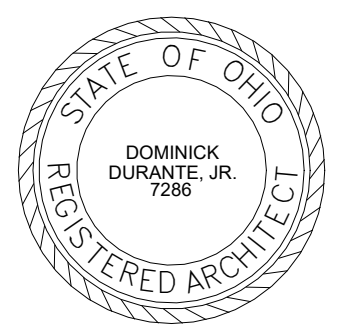
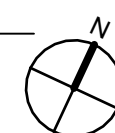
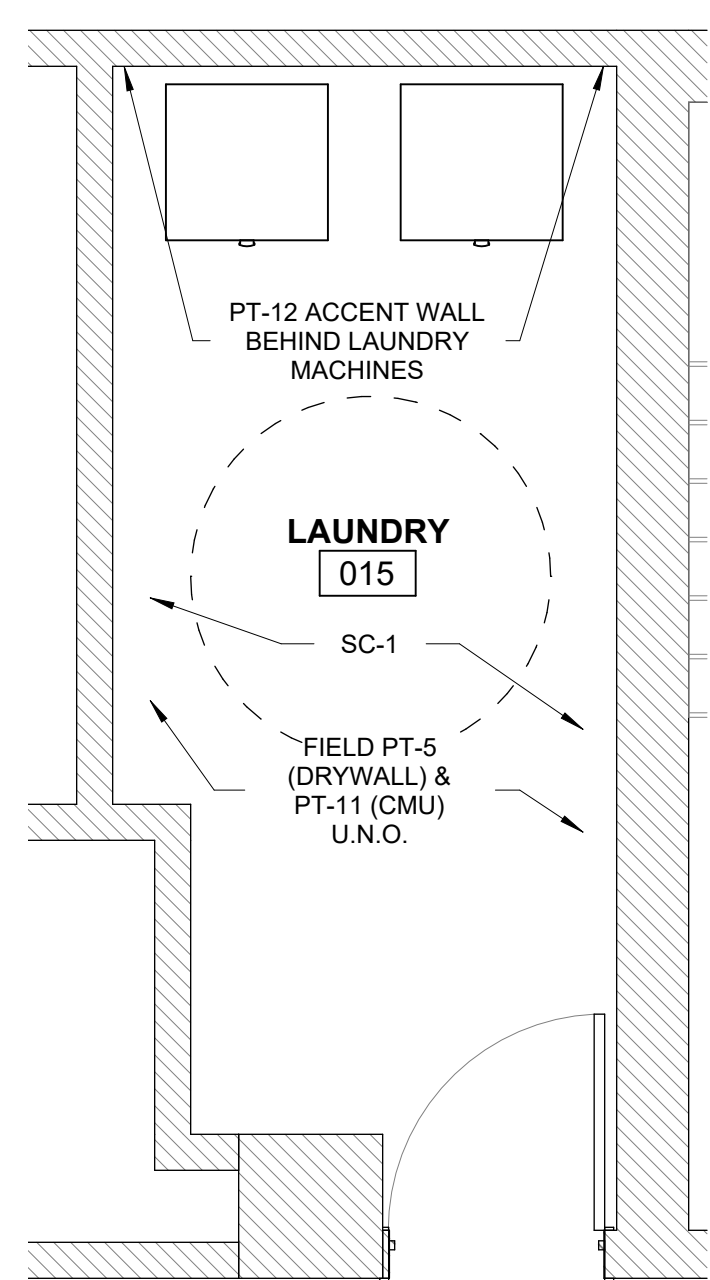
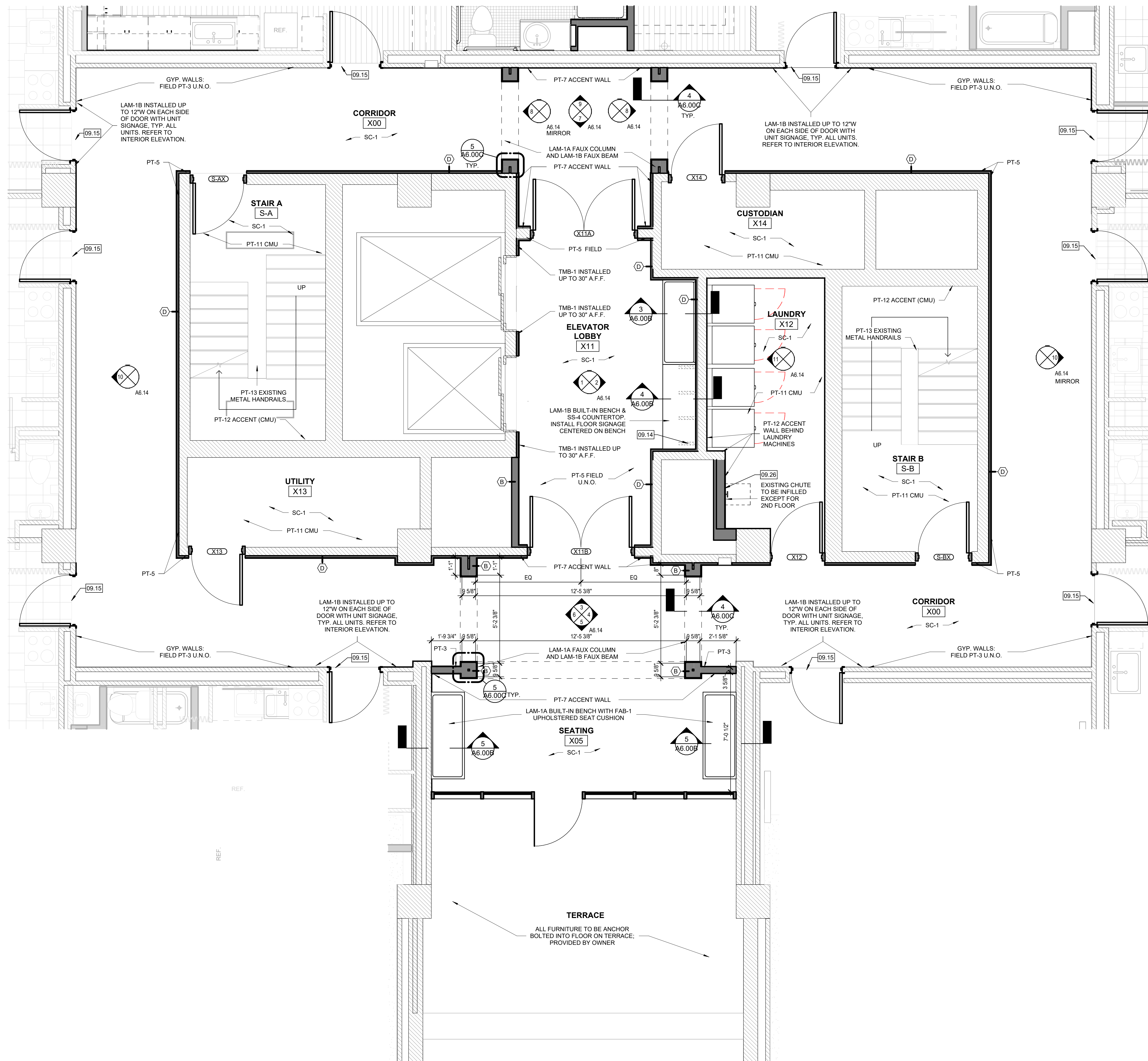
GENERAL NOTES: COMMON AREA

1. REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
- 1A. REFER TO A1.00 SERIES FOR SCOPE OF WORK PER FLOOR.
2. SEE A7.00 SERIES FOR INTERIOR SCHEDULES AND A6.00 SERIES FOR INTERIOR DETAILS.
3. ALL FURNITURE & BUILT-IN SEATING IS FOR REFERENCE ONLY. TO BE PROVIDED BY OWNER.
4. PROVIDE TRANSITION STRIP WHERE FLOOR OR WALL FINISH MATERIAL CHANGES. REFER TO TRANSITION DETAILS AX-XX.
5. COORDINATE FINAL CABINETRY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.
6. ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING FINISH.
7. REFER TO FLOOR PLANS, FINISH PLANS, & INTERIOR ELEVATIONS FOR ADDITIONAL SCOPE

KEYED NOTES SPECIFIC TO THIS SHEET

REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- 09.14 INSTALL WALL-MOUNTED COUNTERTOP SUPPORTS AT FLOATING COUNTERTOP.
- 09.15 INSTALL FLOOR TRANSITION STRIP. REFER TO TRANSITION DETAILS ON A6.00B.
- 09.26 PAINT TRASH CHUTE COVER TO MATCH ADJACENT WALL COVER.



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LICENSE 07396
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

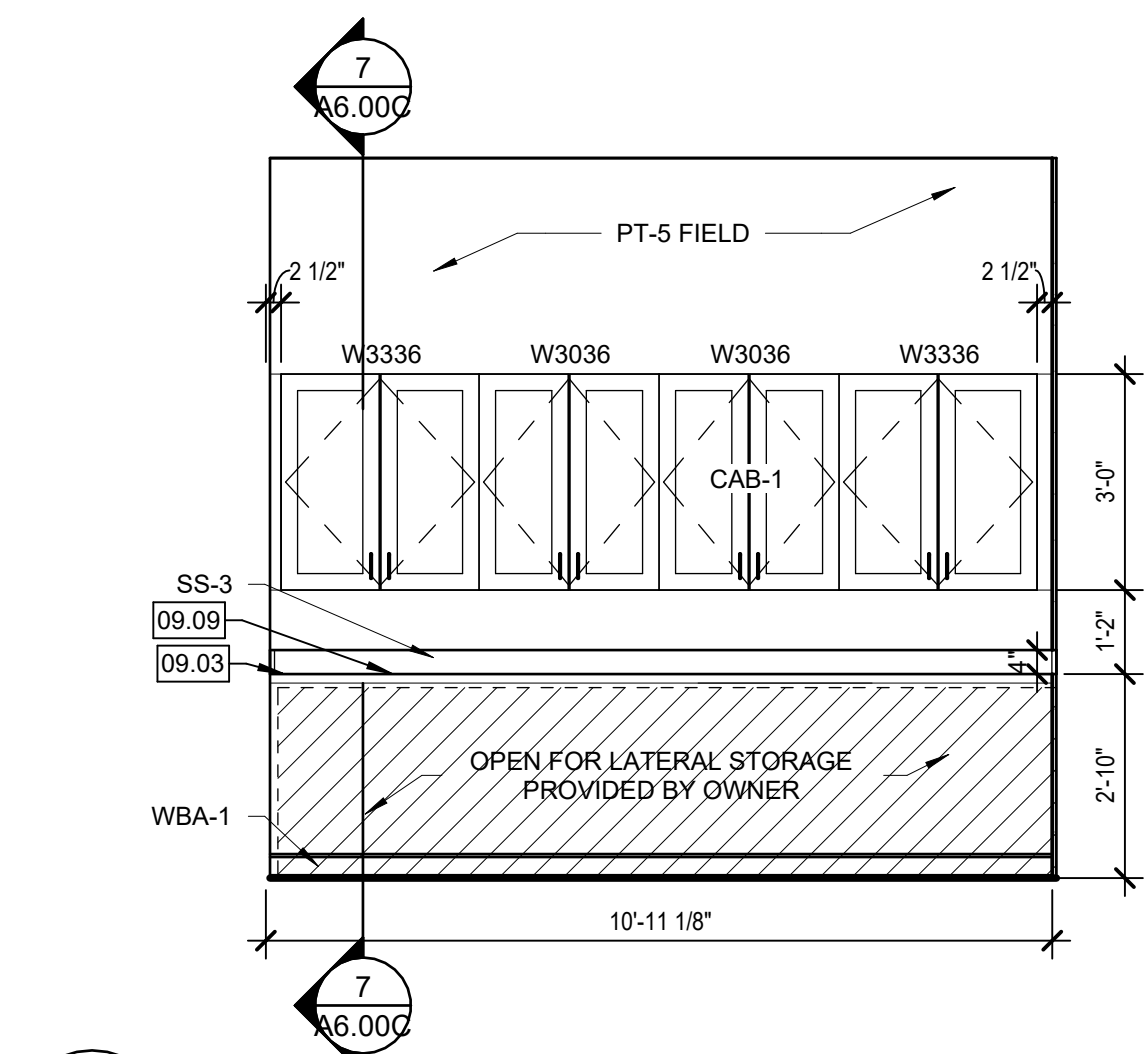
2ND - 15TH FLOOR FINISH PLAN

A6.12

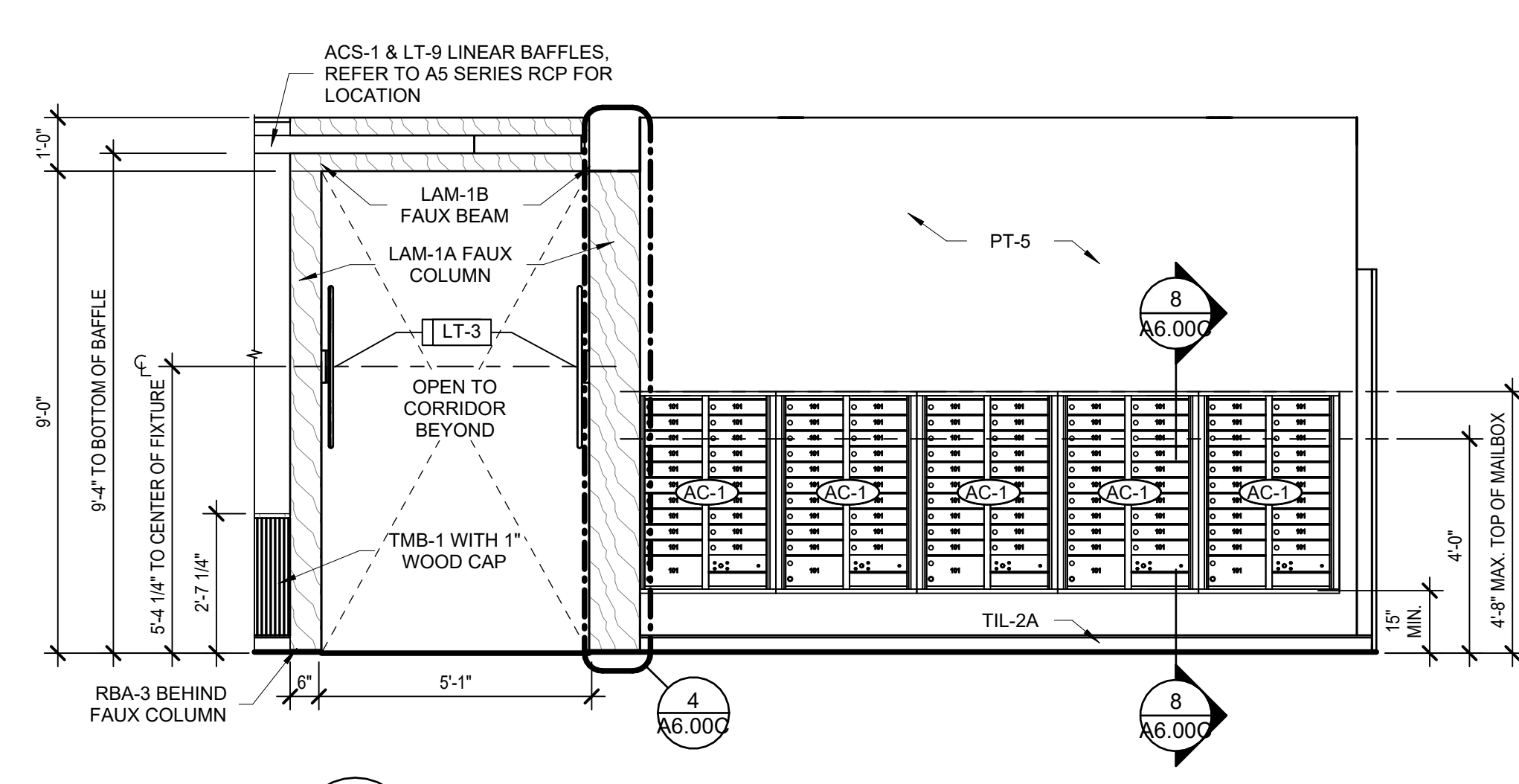
| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

KEYED NOTES SPECIFIC TO THIS SHEET
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

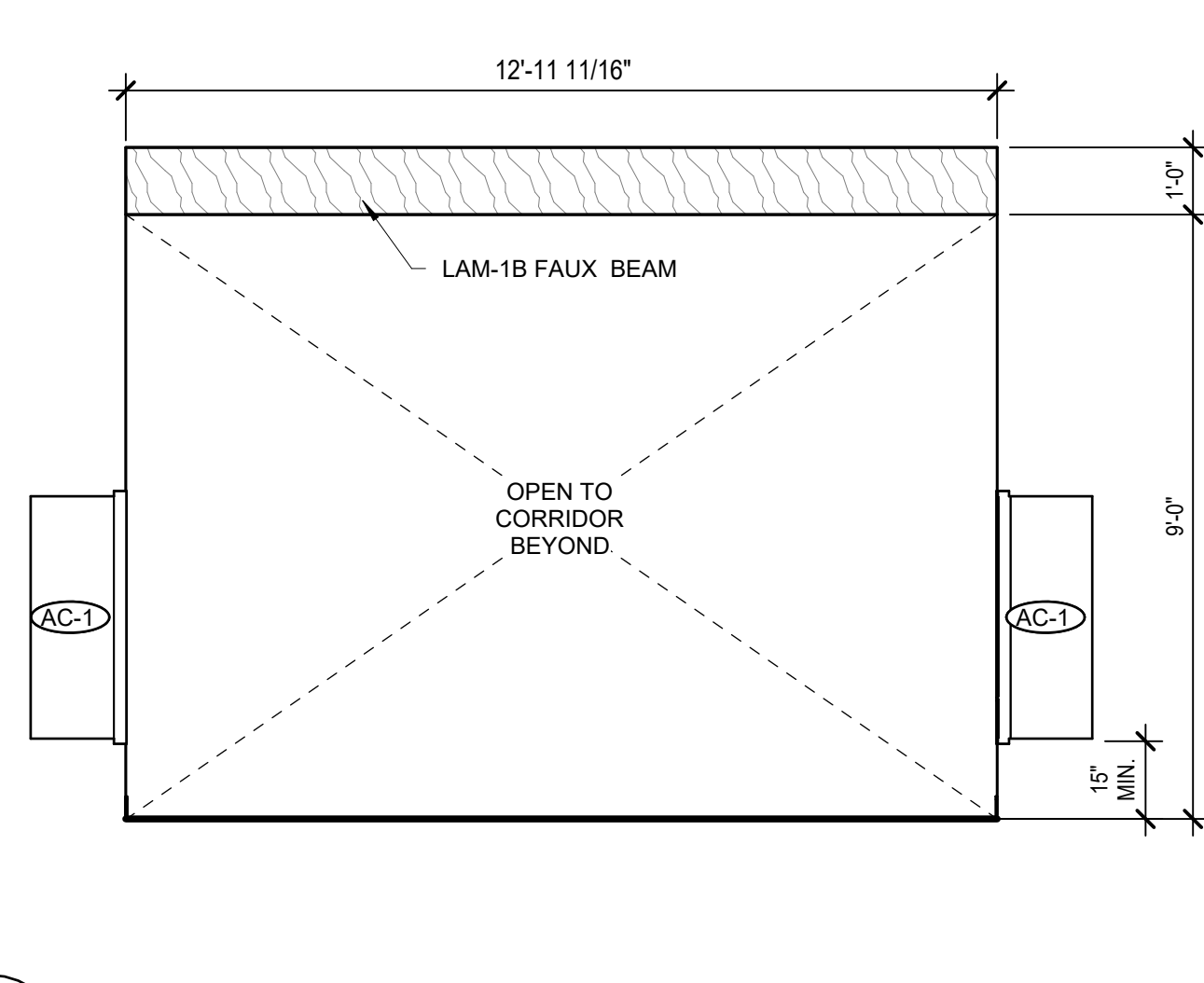
- 08.01 AUTOMATIC DOOR OPERATOR PUSH PLATE. REFER TO SPECIFICATIONS.
- 08.03 PROVIDE AND INSTALL CONTINUOUS 4" H BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS. SEE FINISH SCHEDULE FOR SPECIFICATIONS.
- 09.07 PROVIDE 4" CABINET TOE KICK TO MATCH CABINETS FINISH. CUT TO LENGTH IF NEEDED.
- 09.09 PROVIDE AND INSTALL SILICONE JOINT BETWEEN SOLID SURFACE AND BACKSPLASH TILE. COLOR TO MATCH COUNTERTOP COLOR.
- 09.11 IN-WALL BRACKETS PROVIDED AND INSTALLED FOR SUPPORT OF COUNTERTOP OVERHANG PER COUNTERTOP MANUFACTURER. WORKSTATION APRON TO MATCH CABINET.
- 09.12 INCLUDE 2" GROMMET FOR FUTURE COMPUTER / WIRES AT WORKSTATION. PROVIDE POWER & SUPPORT FOR CONFERENCE ROOM TV LOCATION. VERIFY TV SIZE WITH OWNERSHIP. REFER TO ELECTRICAL PLANS.
- 26.13



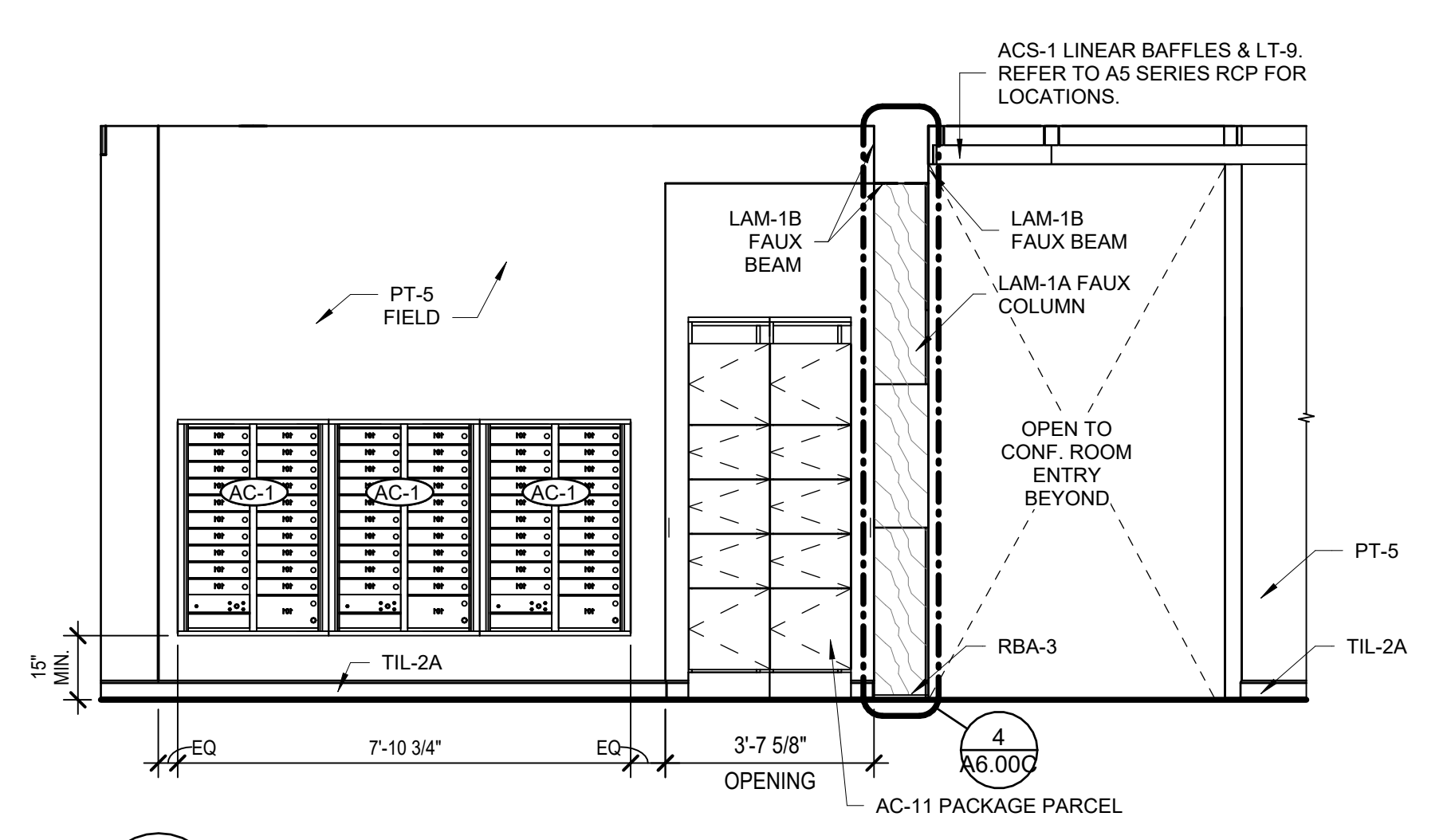
3 OPEN OFFICE - STORAGE
A6.13 SCALE: 3/8" = 1'-0"



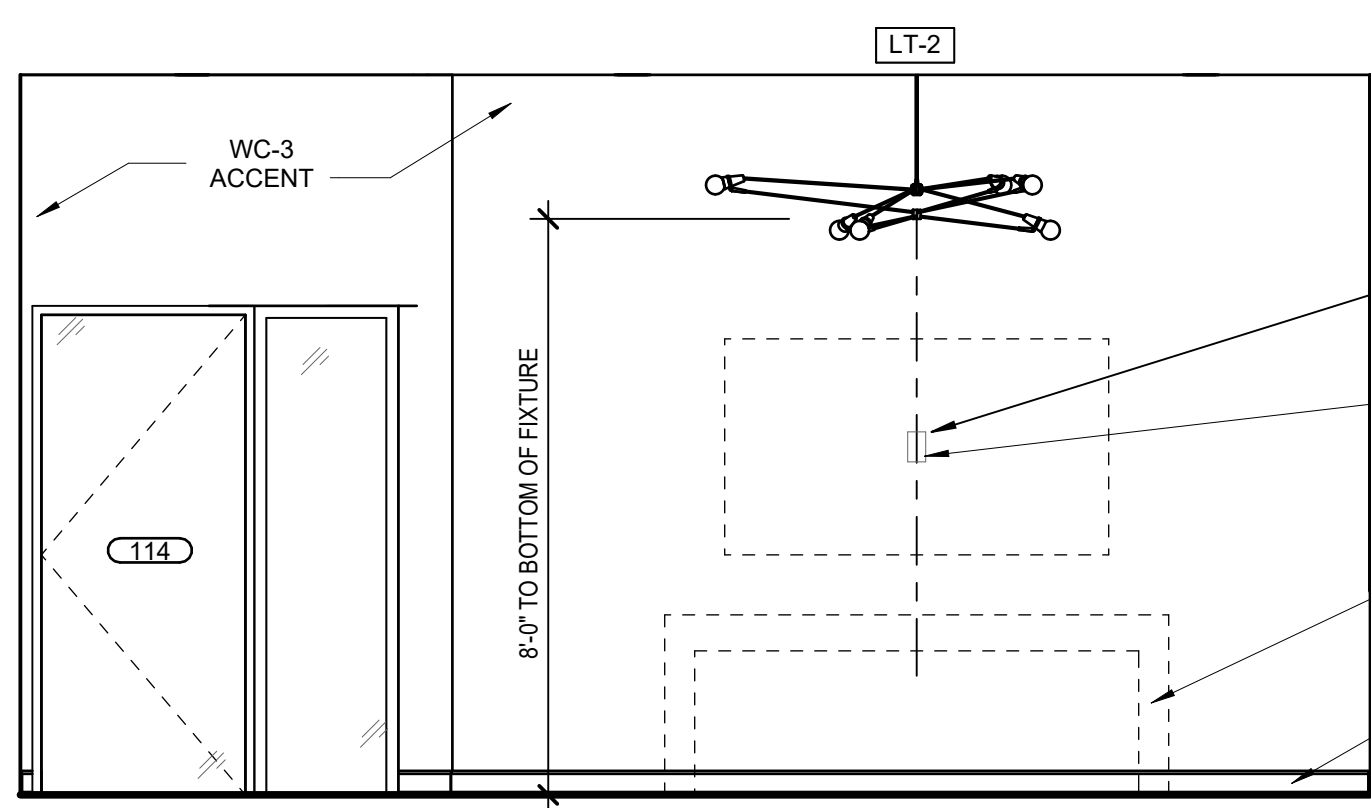
13 MAIL ELEV. 3
A6.13 SCALE: 3/8" = 1'-0"



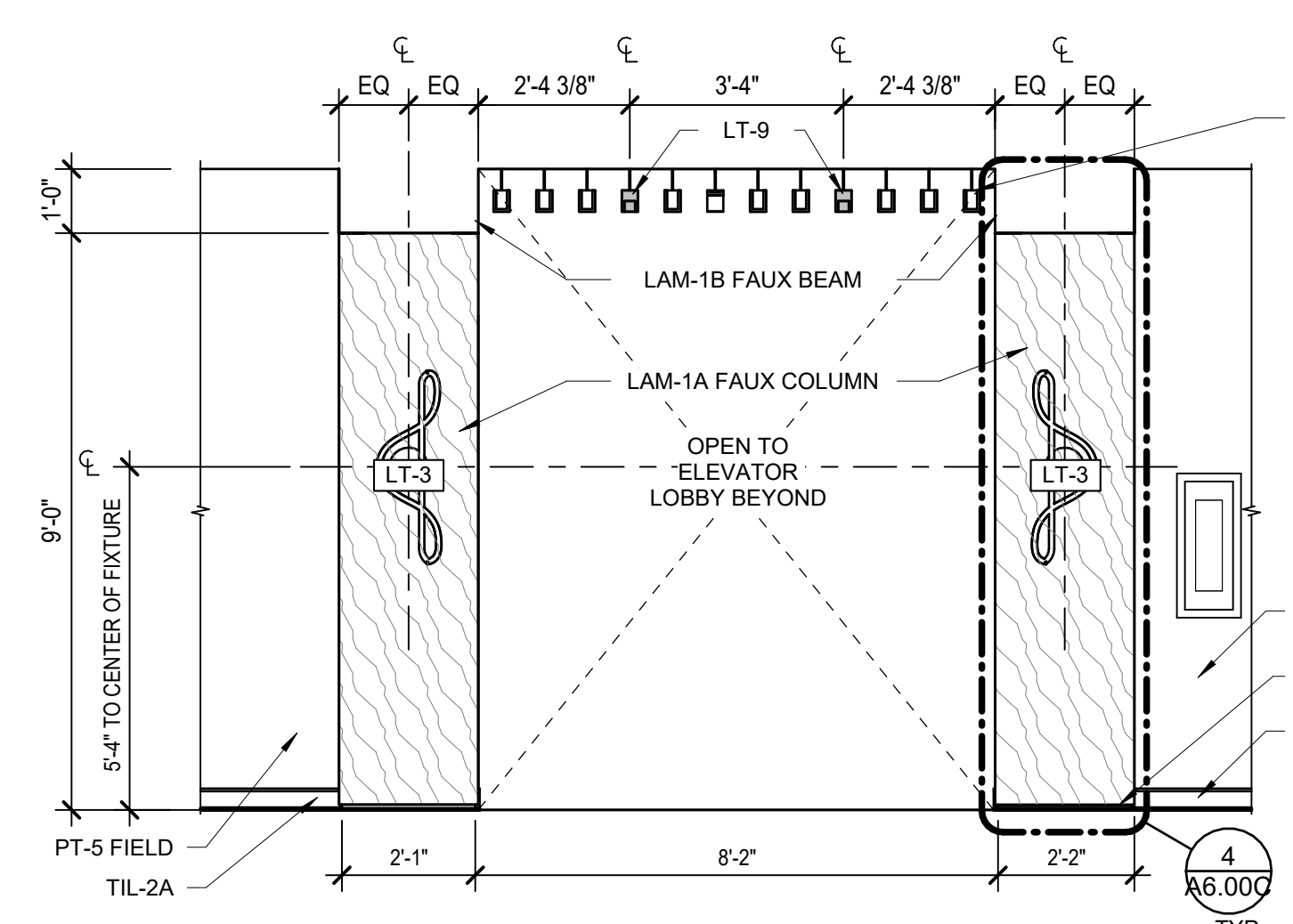
12 MAIL ELEV. 2
A6.13 SCALE: 3/8" = 1'-0"



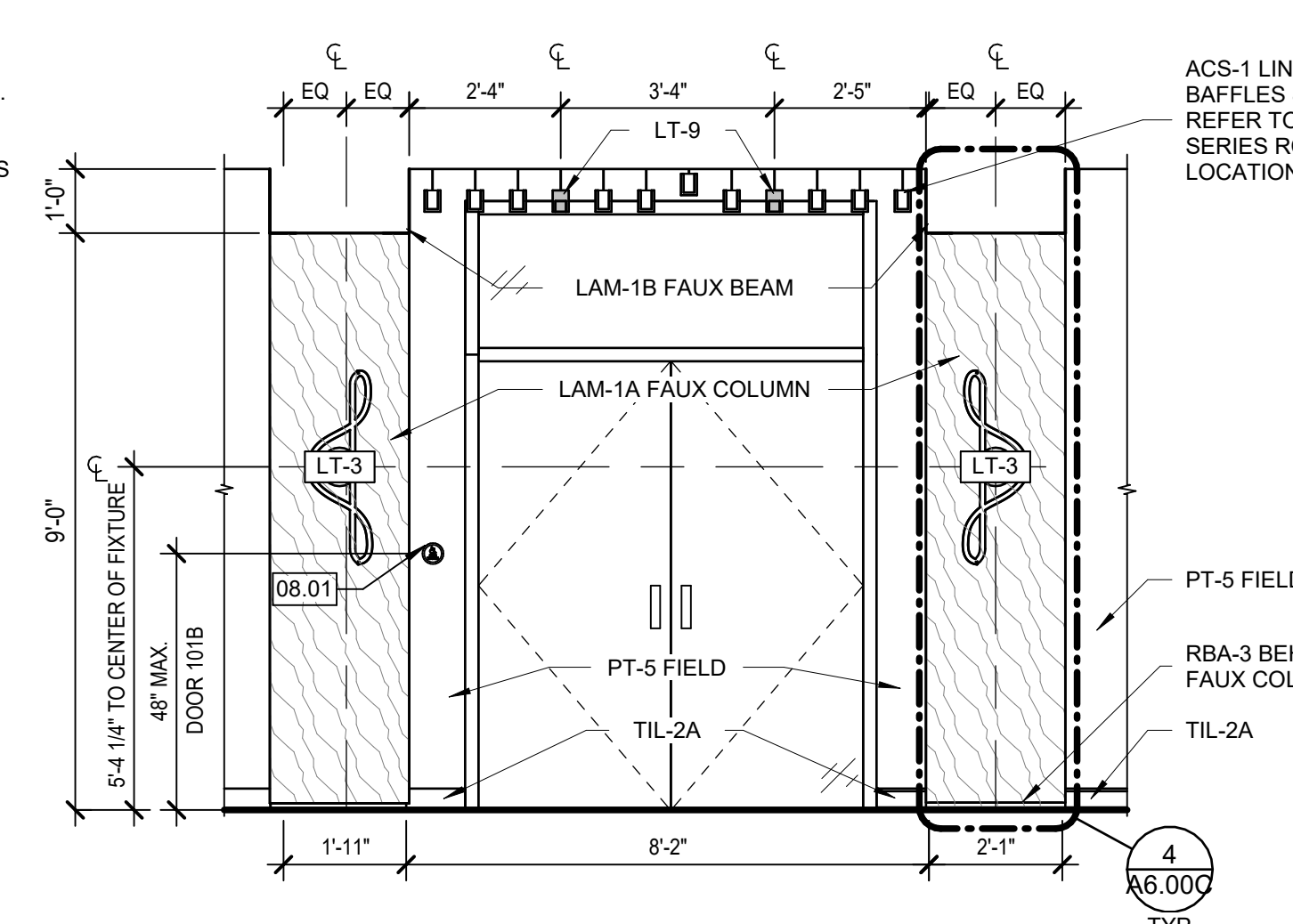
11 MAIL ELEV. 1
A6.13 SCALE: 3/8" = 1'-0"



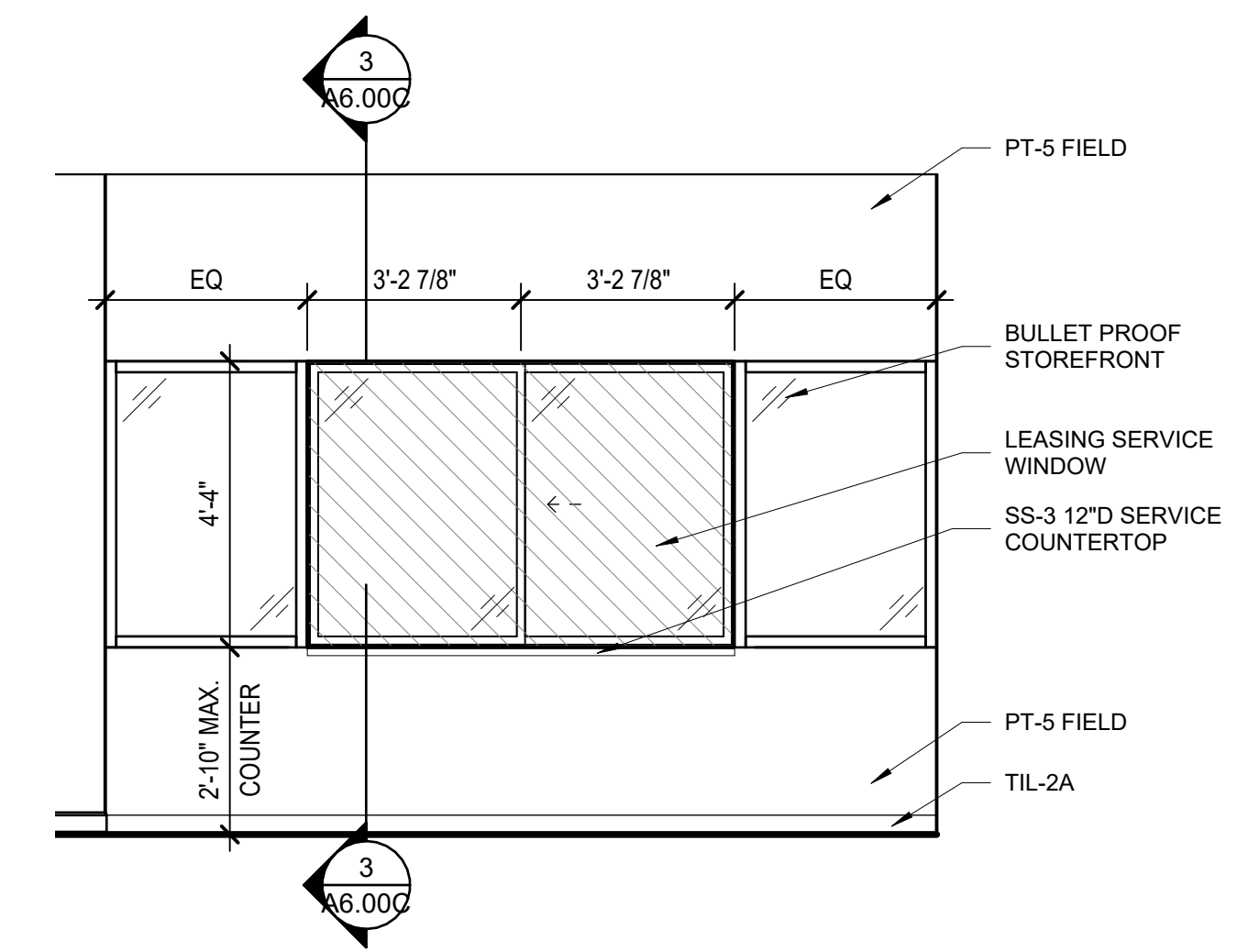
9 CONF. ROOM ELEV. 1
A6.13 SCALE: 3/8" = 1'-0"



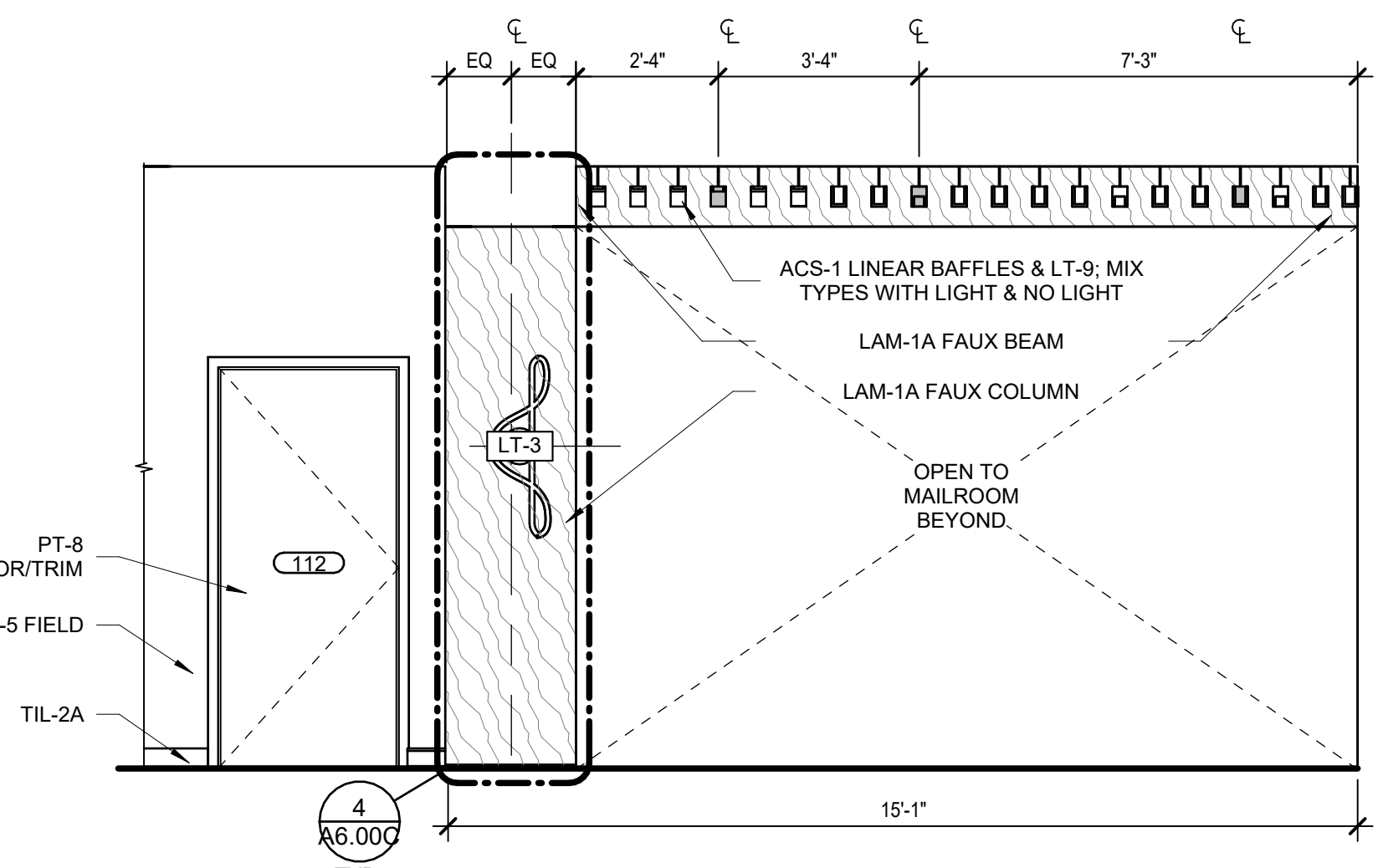
8 GROUND FLOOR CORRIDOR - ELEV. 4
A6.13 SCALE: 3/8" = 1'-0"



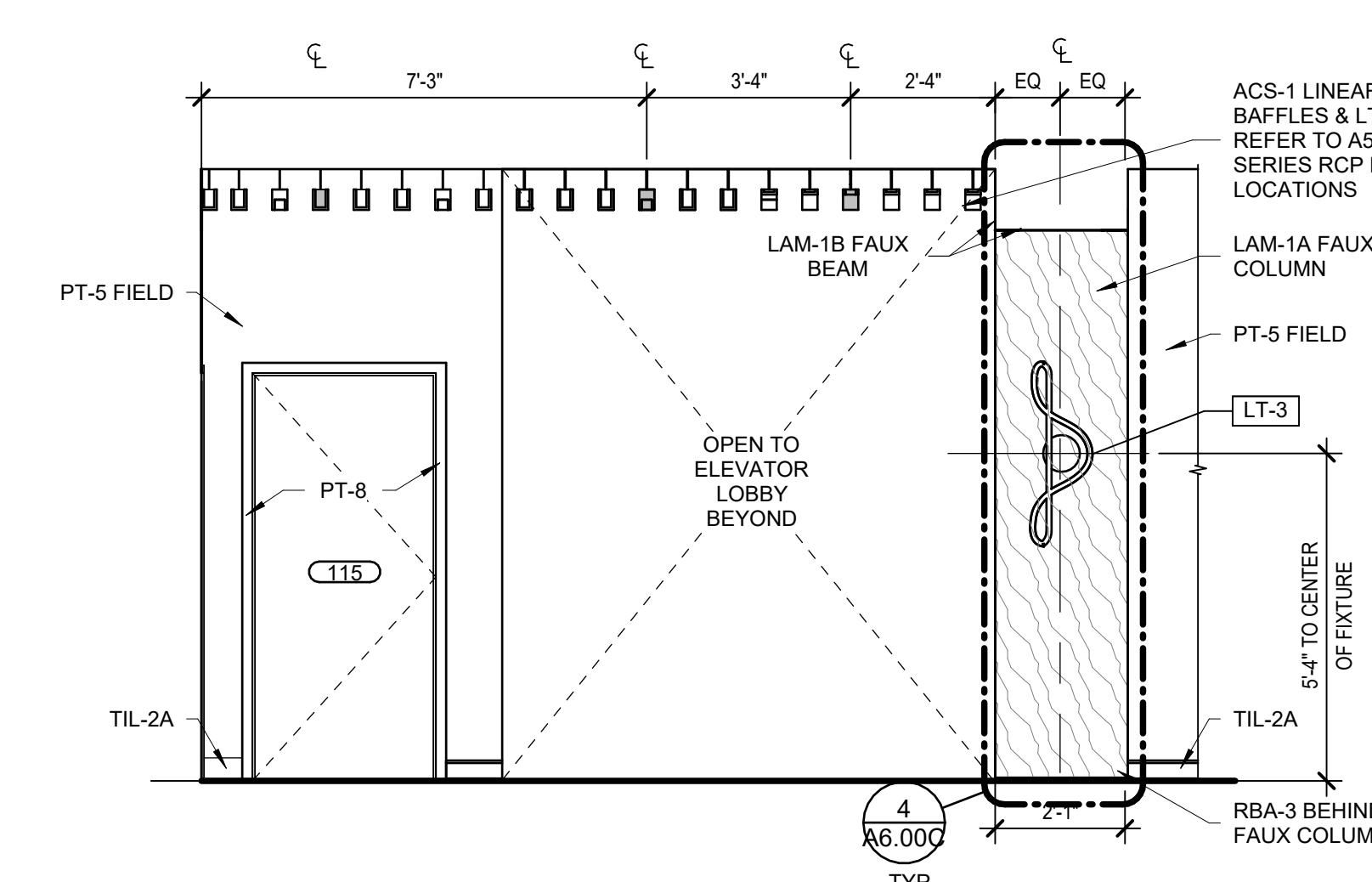
7 GROUND FLOOR CORRIDOR - ELEV. 3
A6.13 SCALE: 3/8" = 1'-0"



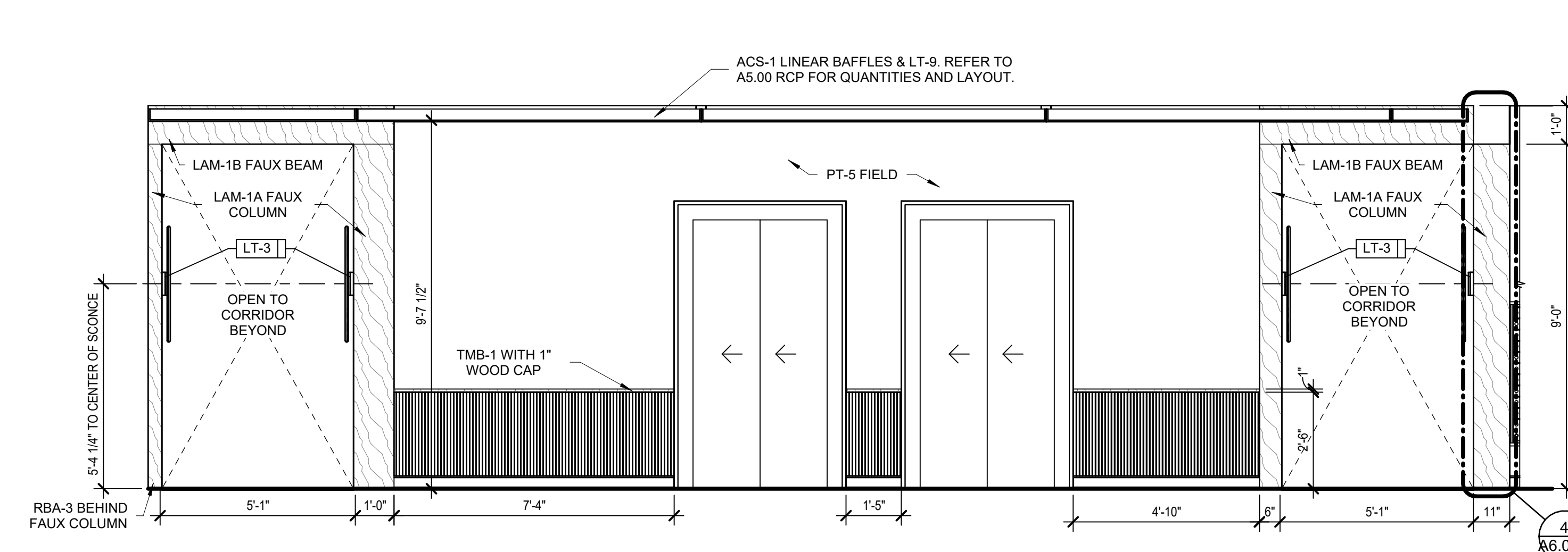
10 VESTIBULE ELEV. 1
A6.13 SCALE: 3/8" = 1'-0"



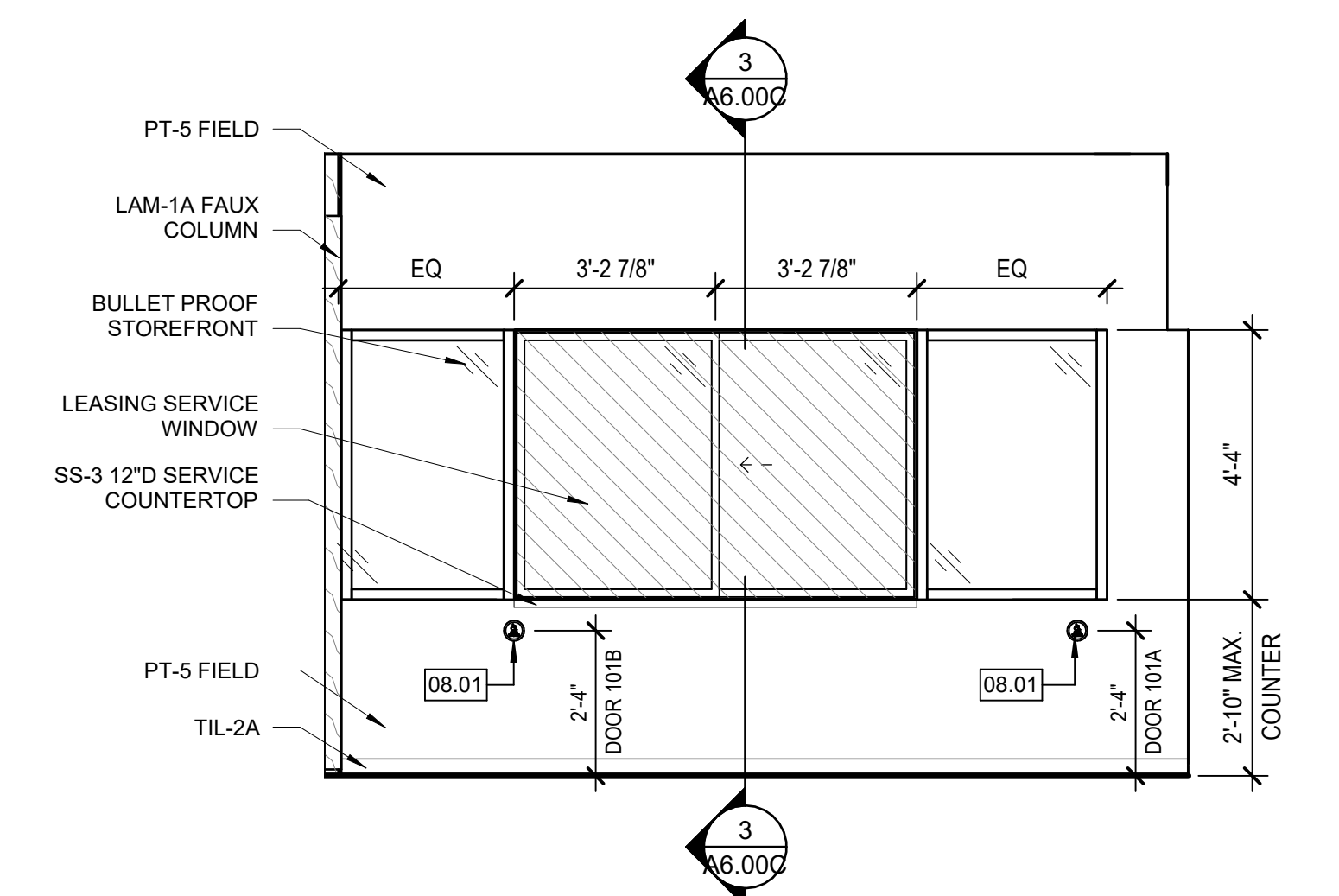
6 GROUND FLOOR CORRIDOR - ELEV. 2
A6.13 SCALE: 3/8" = 1'-0"



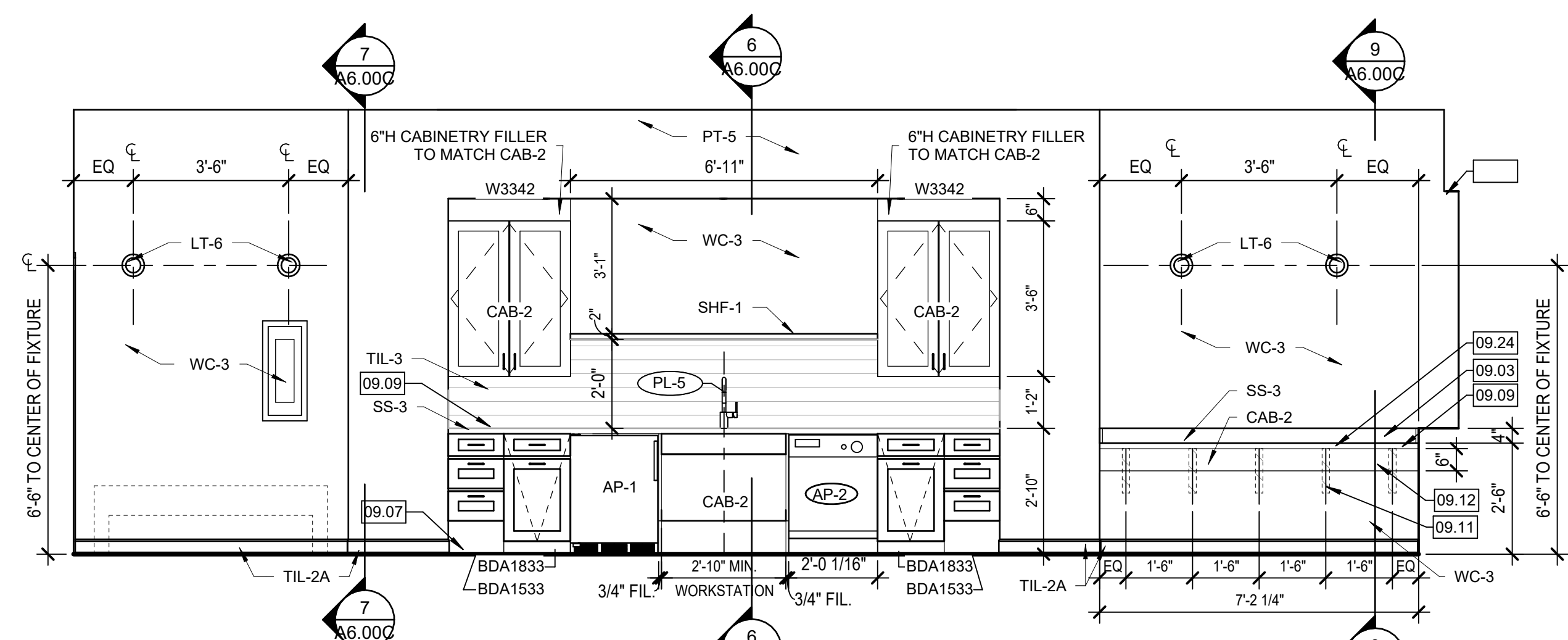
5 GROUND FLOOR CORRIDOR - ELEV. 1
A6.13 SCALE: 3/8" = 1'-0"



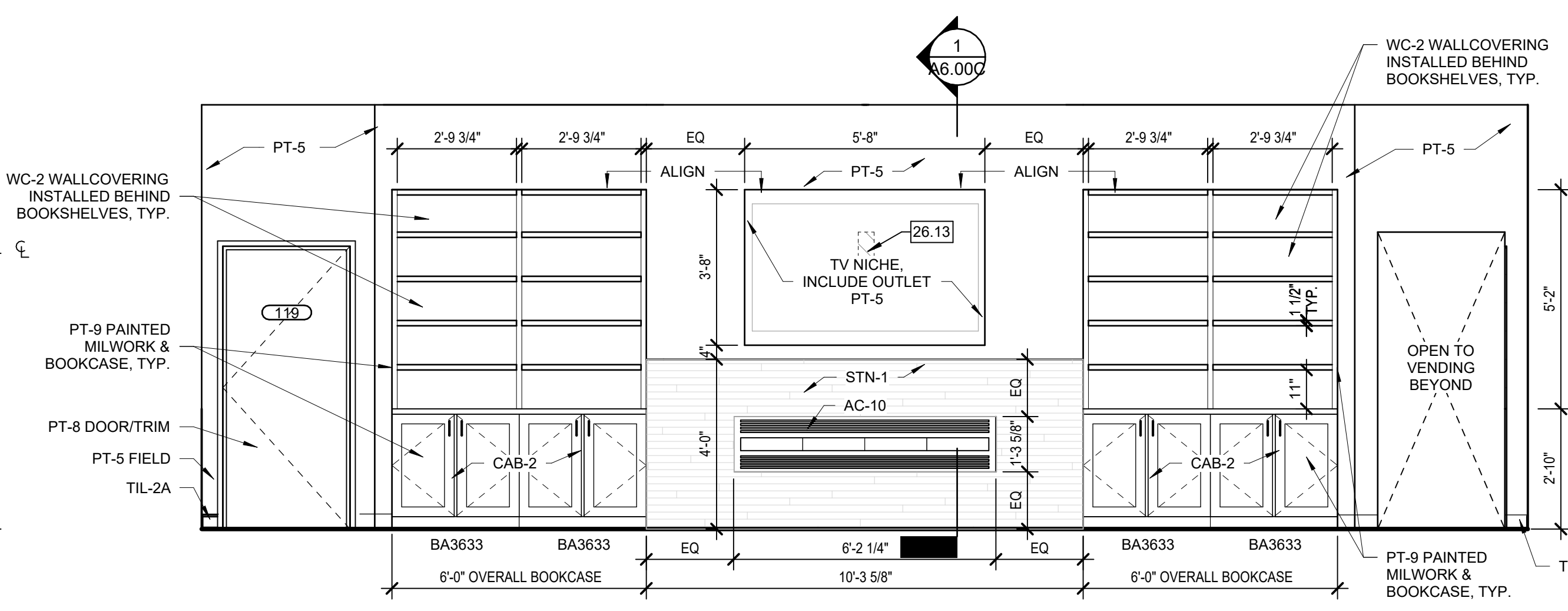
4 GROUND FL. ELEV. LOBBY
A6.13 SCALE: 3/8" = 1'-0"



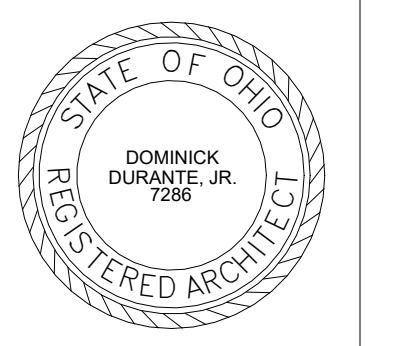
14 VESTIBULE ELEV. 2
A6.13 SCALE: 3/8" = 1'-0"



2 KITCHENETTE ELEV.
A6.13 SCALE: 3/8" = 1'-0"



1 COMMUNITY ROOM - BOOKCASE
A6.13 SCALE: 3/8" = 1'-0"



DOMINICK DURANTE, JR.
LICENSE 97396
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

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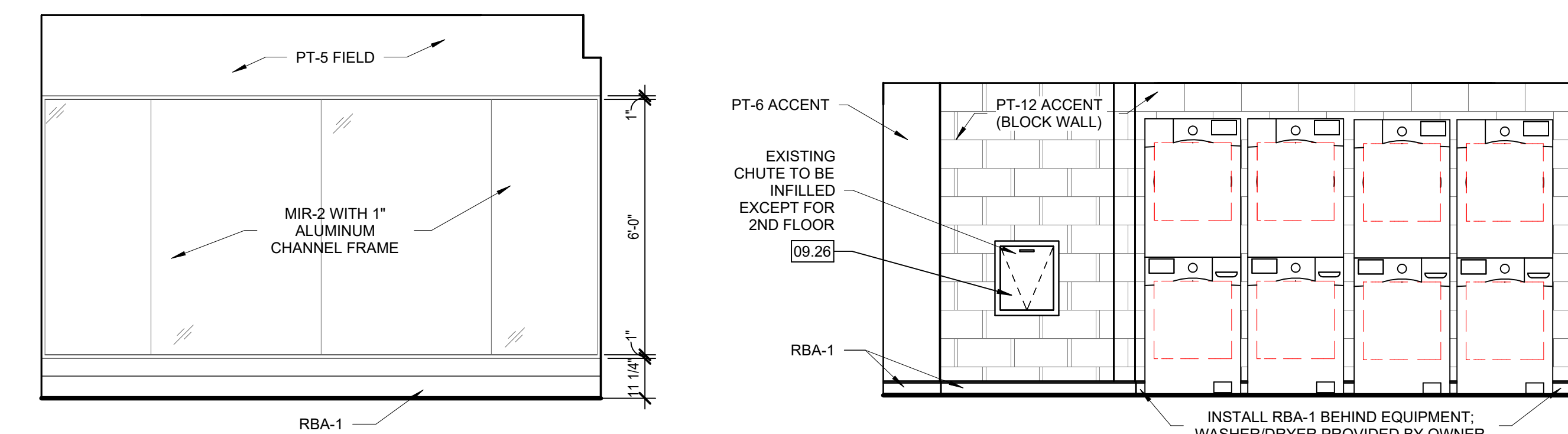
GENERAL NOTES: COMMON AREA

- REFER TO G0.01 FOR ALL TYPICAL FLOOR PLAN AND DEMOLITION GENERAL NOTES.
- REFER TO A1.00 SERIES FOR SCOPE OF WORK PER FLOOR.
- SEE A7.00 SERIES FOR INTERIOR SCHEDULES AND A6.00 SERIES FOR INTERIOR DETAILS.
- ALL FURNITURE & BUILT-IN SEATING IS FOR REFERENCE ONLY. TO BE PROVIDED BY OWNER.
- PROVIDE TRANSITION STRIP WHERE FLOOR OR WALL FINISH MATERIAL CHANGES. REFER TO TRANSITION DETAILS A3.XX.
- COORDINATE FINAL CABINETRY SHOP DRAWINGS WITH APPLIANCES AND SUBMIT TO ARCHITECT FOR REVIEW.
- ALL MECHANICAL GRILLS AND VENTS TO BE PAINTED TO MATCH ADJACENT WALL/CEILING FINISH.
- REFER TO FLOOR PLANS, FINISH PLANS, & INTERIOR ELEVATIONS FOR ADDITIONAL SCOPE.

KEYED NOTES SPECIFIC TO THIS SHEET

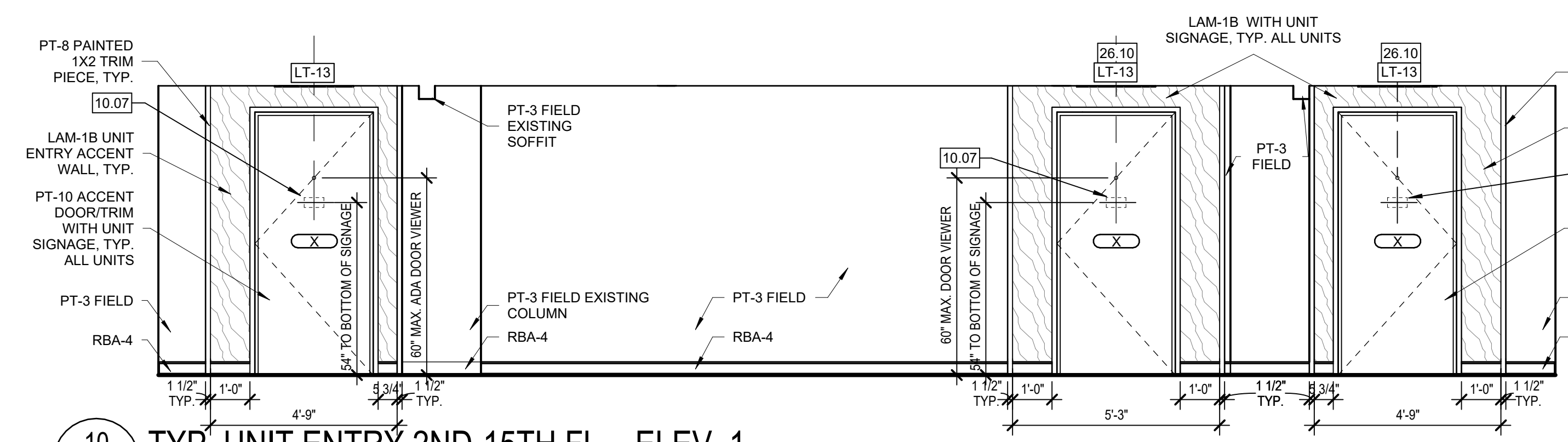
REFERENCED BY THE SYMBOL TYPICAL UNLESS NOTED OTHERWISE

- 09.26 PAINT TRASH CHUTE COVER TO MATCH ADJACENT WALL COVER
- 10.07 UNIT ROOM SIGNAGE TO BE INSTALLED TO MEET ADA GUIDELINES. CENTER ON FACE OF UNIT ENTRY DOOR.
- 26.10 CENTER FIXTURE ON DOOR/OPENING.

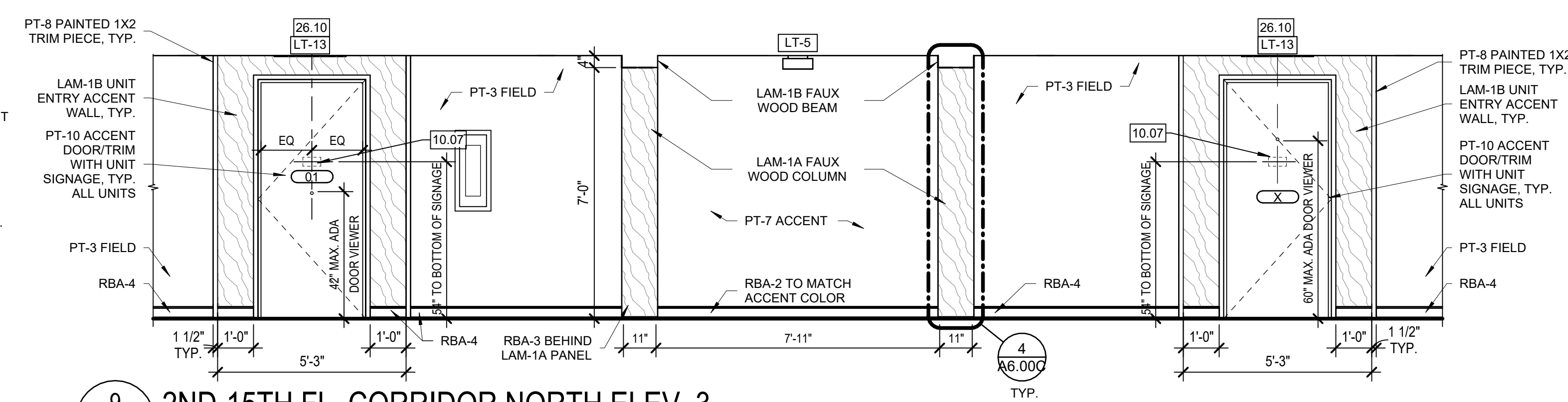


12 FITNESS / REHAB ELEV. 1
A6.14 SCALE: 3/8" = 1'-0"

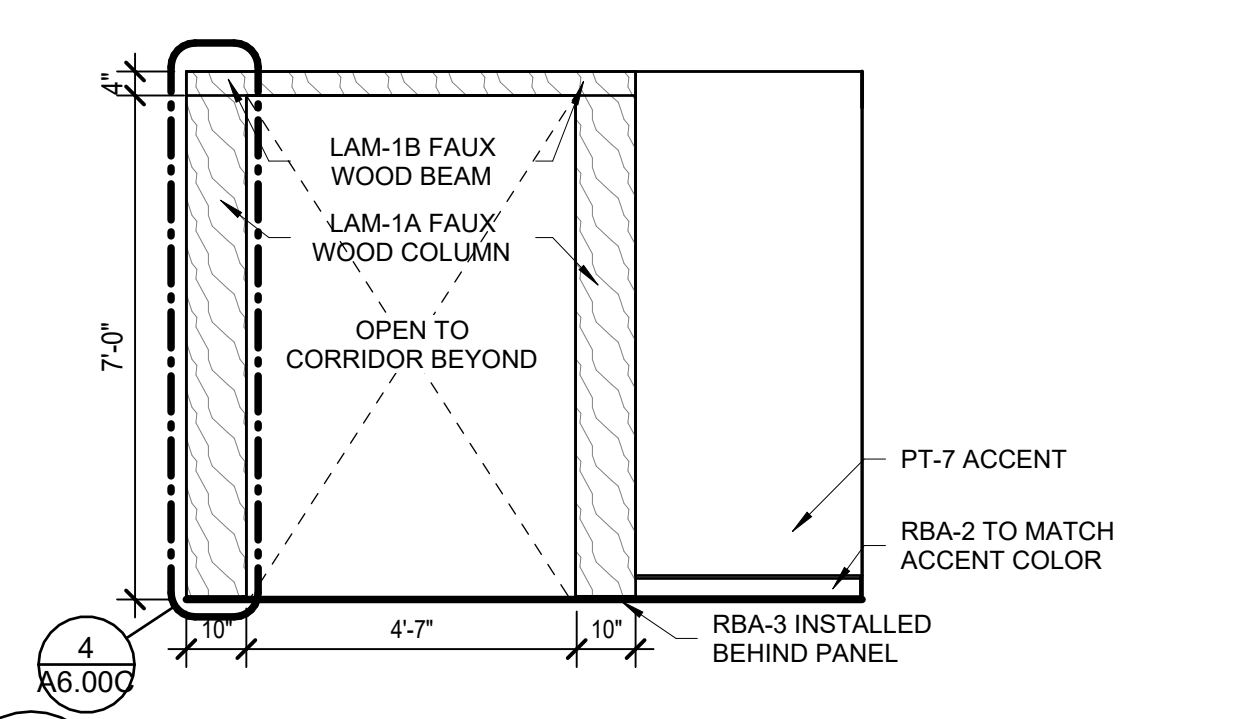
11 TYP. LAUNDRY ROOM - EVEN FLOORS
A6.14 SCALE: 3/8" = 1'-0"



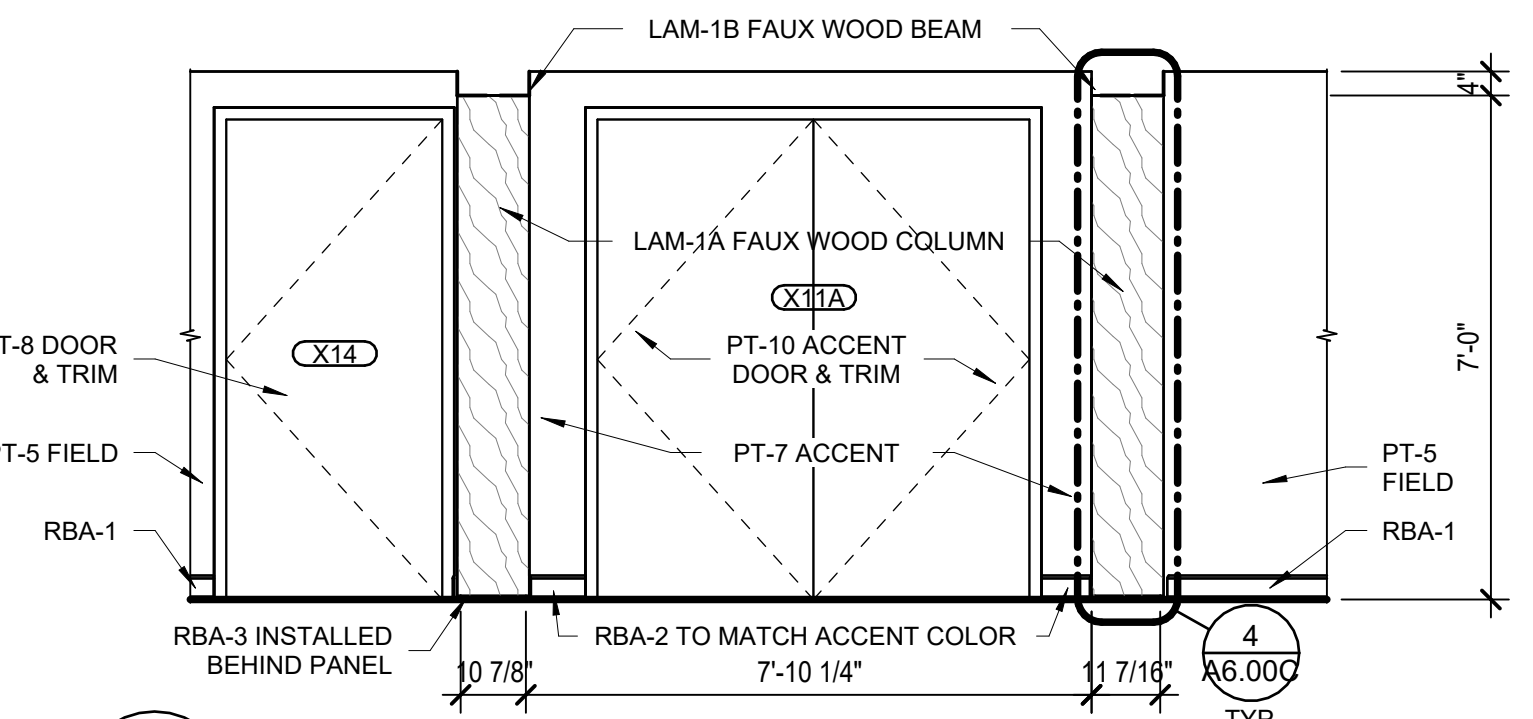
10 TYP. UNIT ENTRY 2ND-15TH FL. - ELEV. 1
A6.14 SCALE: 3/8" = 1'-0"



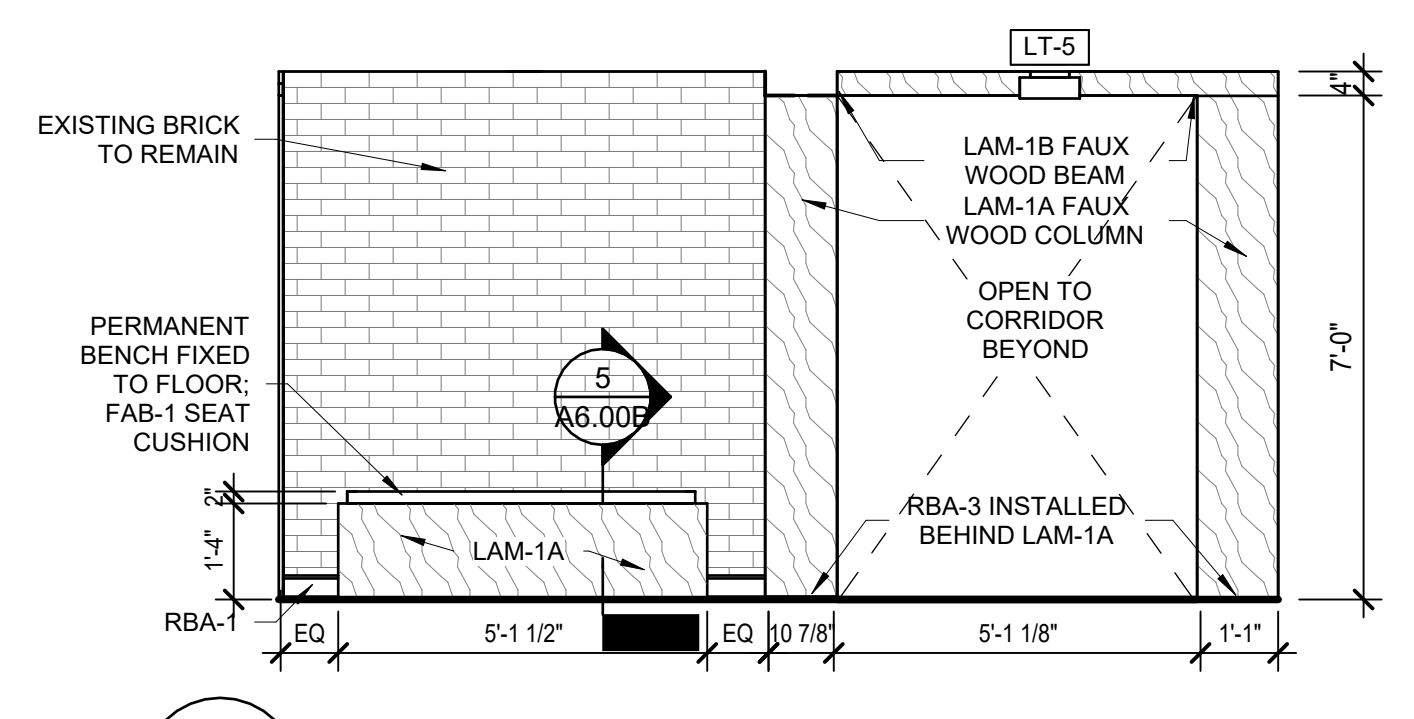
9 2ND-15TH FL. CORRIDOR NORTH ELEV. 3
A6.14 SCALE: 3/8" = 1'-0"



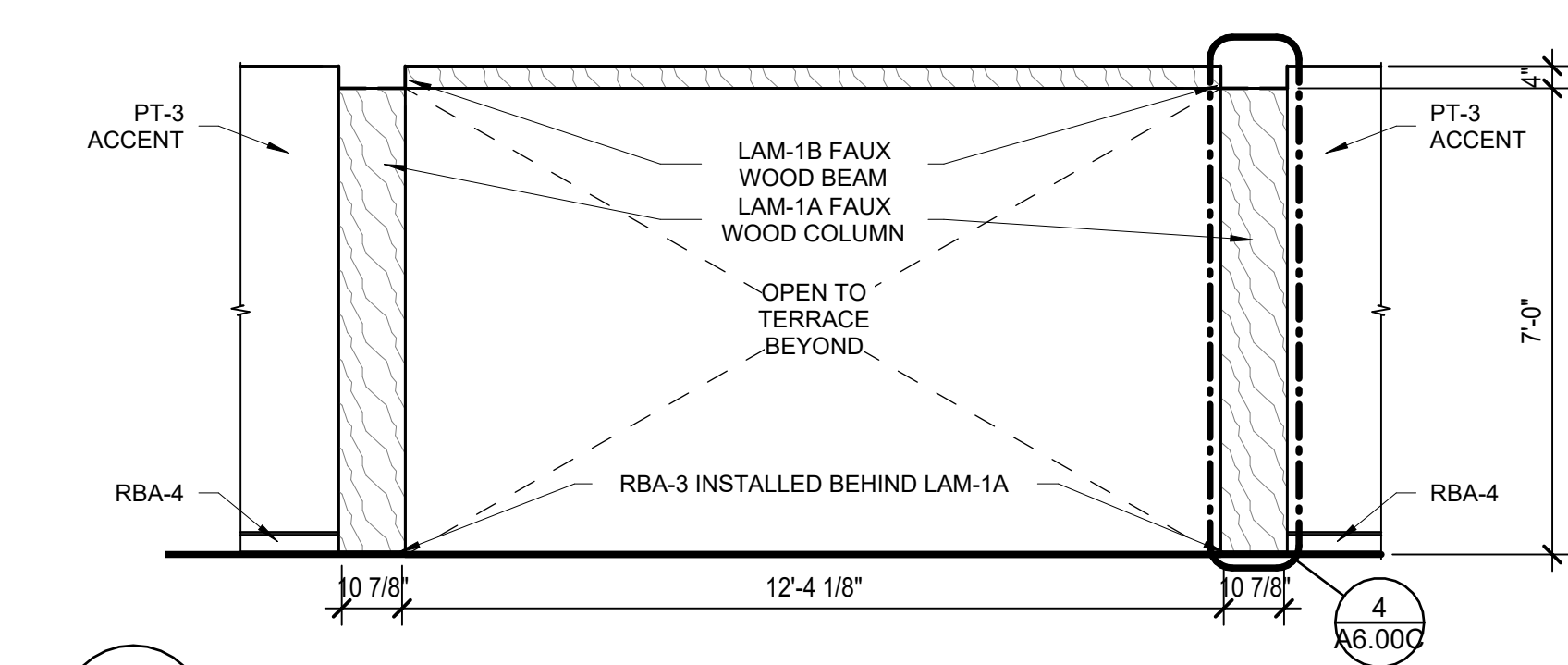
8 2ND-15TH FL. CORRIDOR NORTH ELEV. 2
A6.14 SCALE: 3/8" = 1'-0"



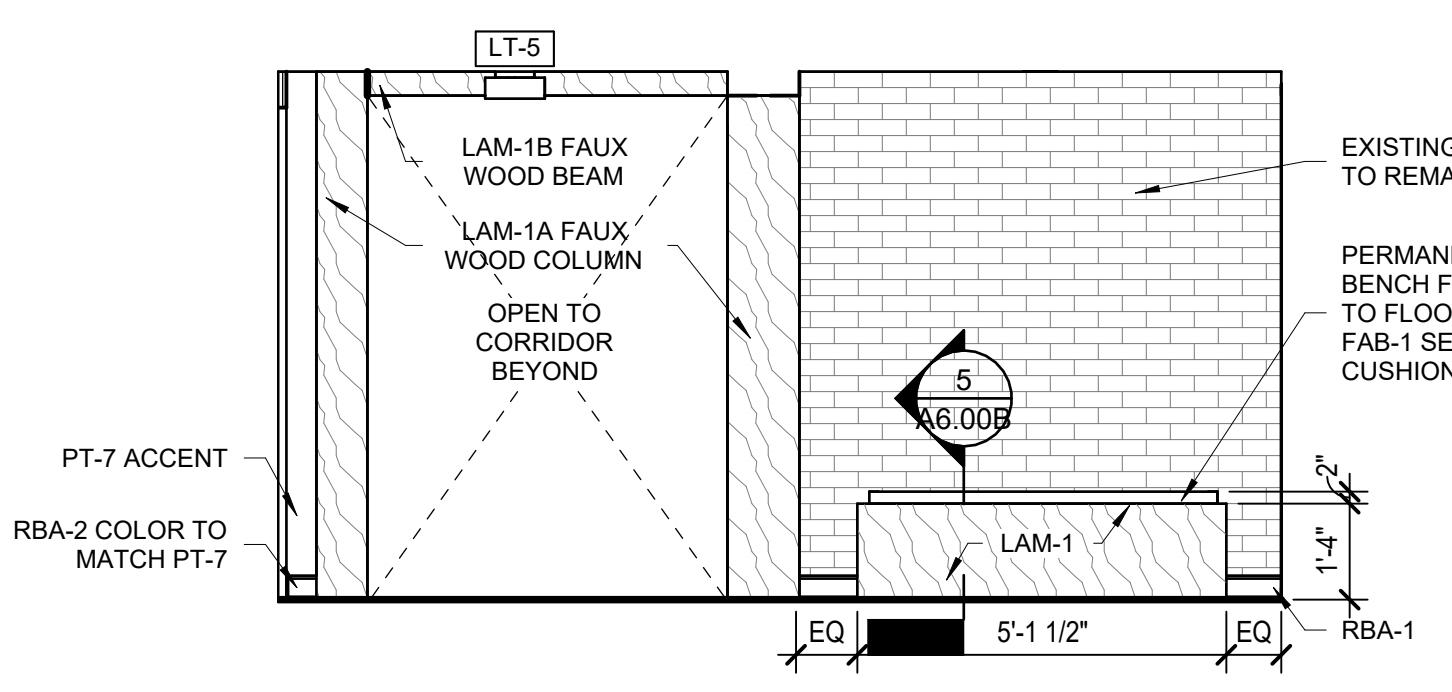
7 2ND-15TH FL. CORRIDOR NORTH ELEV. 1
A6.14 SCALE: 3/8" = 1'-0"



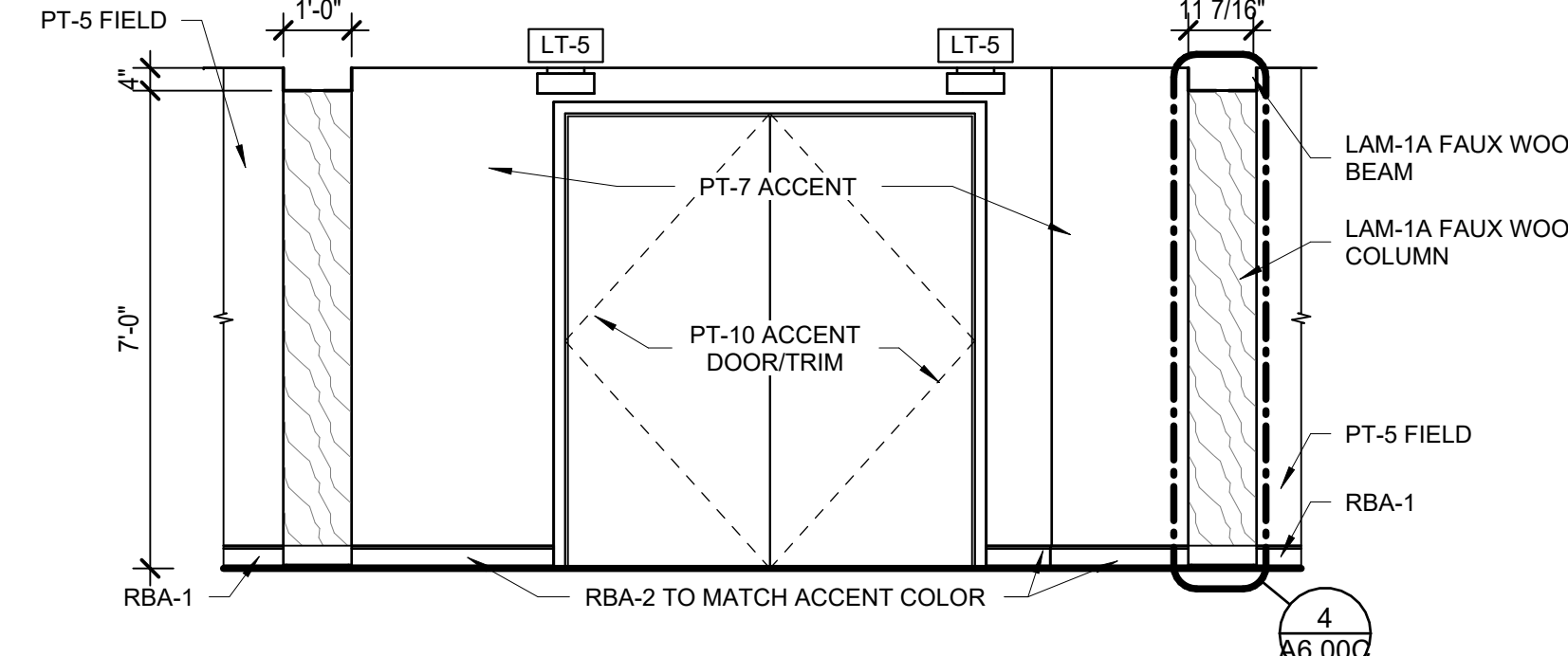
6 2ND-15TH FL. CORRIDOR SOUTH ELEV. 4
A6.14 SCALE: 3/8" = 1'-0"



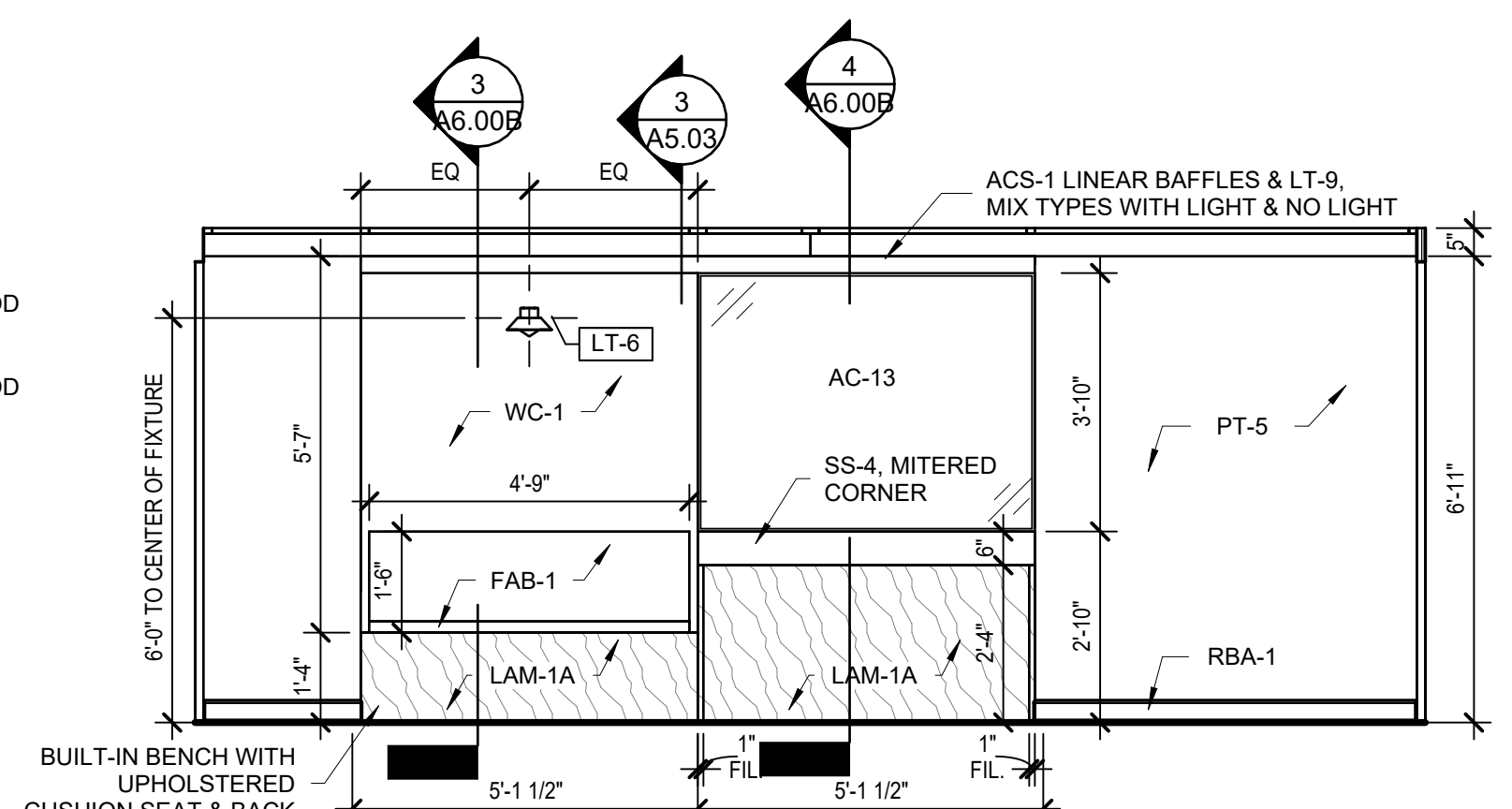
5 2ND-15TH FL. CORRIDOR SOUTH ELEV. 3
A6.14 SCALE: 3/8" = 1'-0"



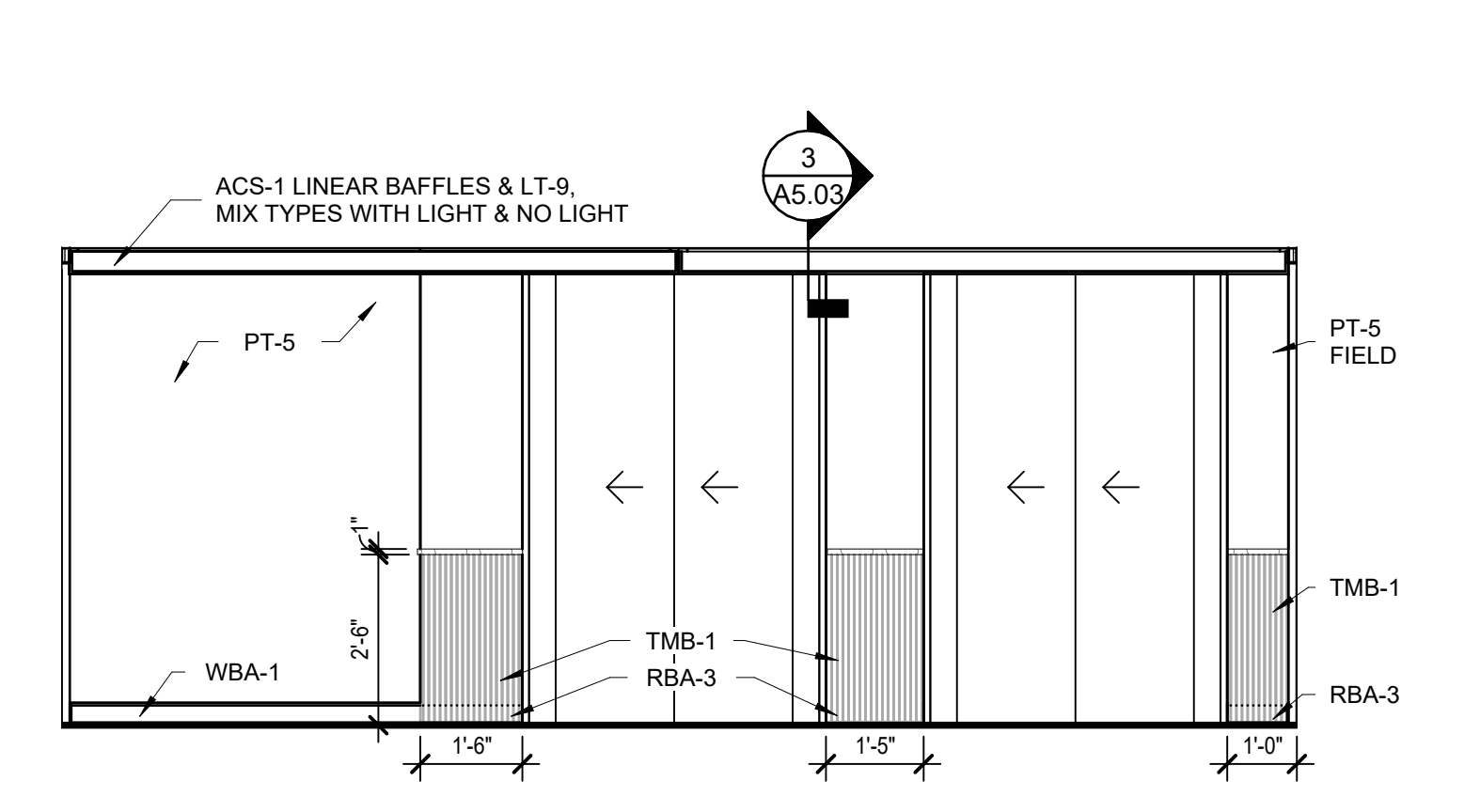
4 2ND-15TH FL. CORRIDOR SOUTH ELEV. 2
A6.14 SCALE: 3/8" = 1'-0"



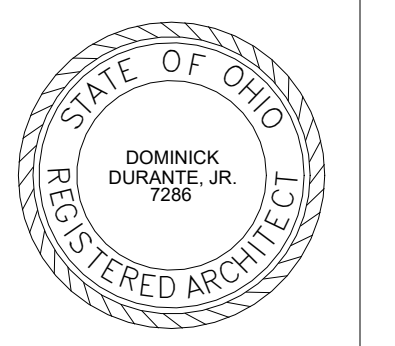
3 2ND-15TH FL. CORRIDOR SOUTH ELEV. 1
A6.14 SCALE: 3/8" = 1'-0"



2 TYP. ELEVATOR LOBBY 2ND-15TH FL. ELEV. 2
A6.14 SCALE: 3/8" = 1'-0"



1 TYP. ELEVATOR LOBBY 2-15 FL. - ELEV. 1
A6.14 SCALE: 3/8" = 1'-0"



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| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

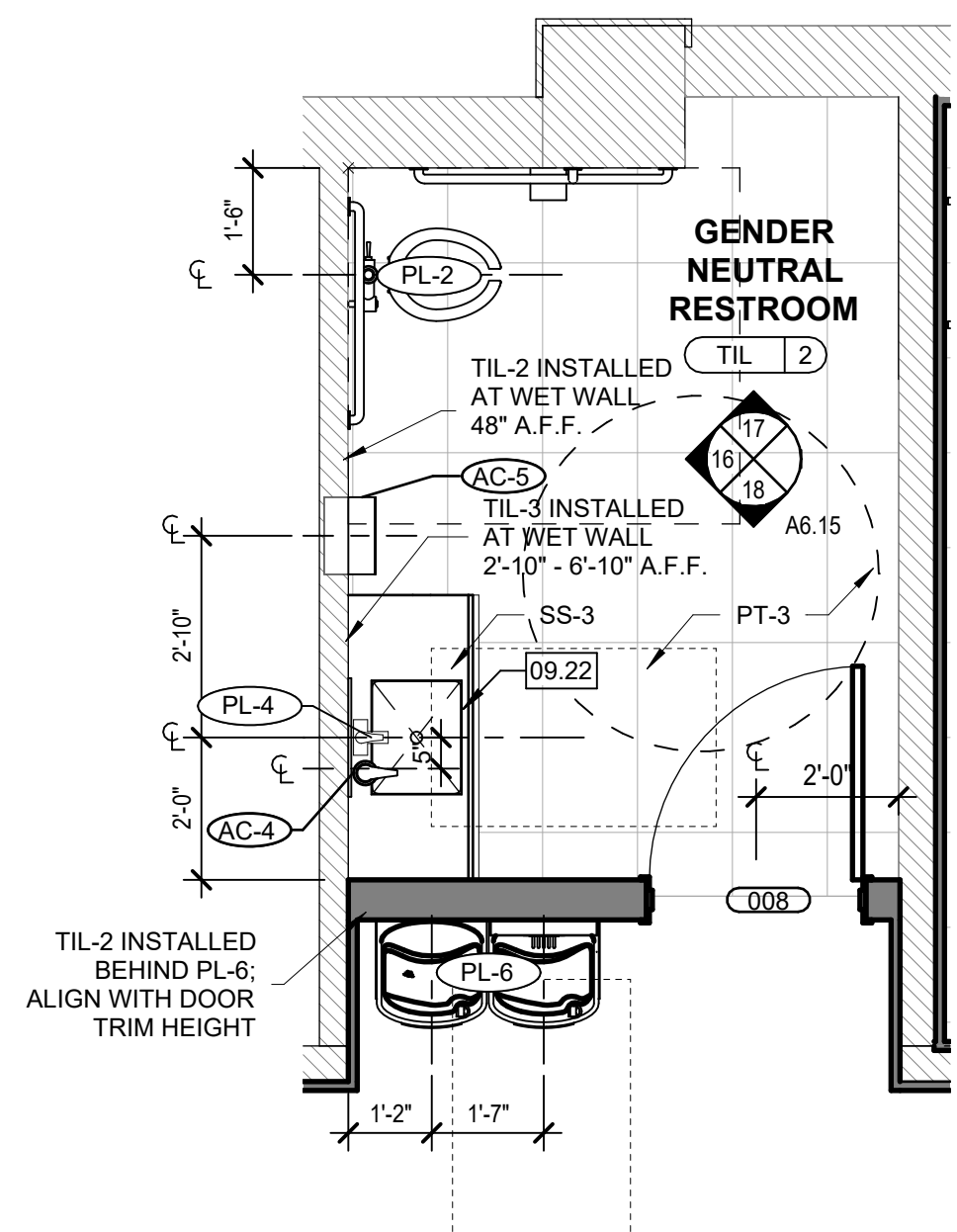
FLOOR PLAN LEGEND

- EXISTING WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- NEW WALL TO BE CONSTRUCTED. REFER TO WALL TYPES.
- ACCESSIBLE PATH.
- ACCESSIBLE UNIT LOCATION.
- AUDIO / VISUAL UNIT LOCATION.

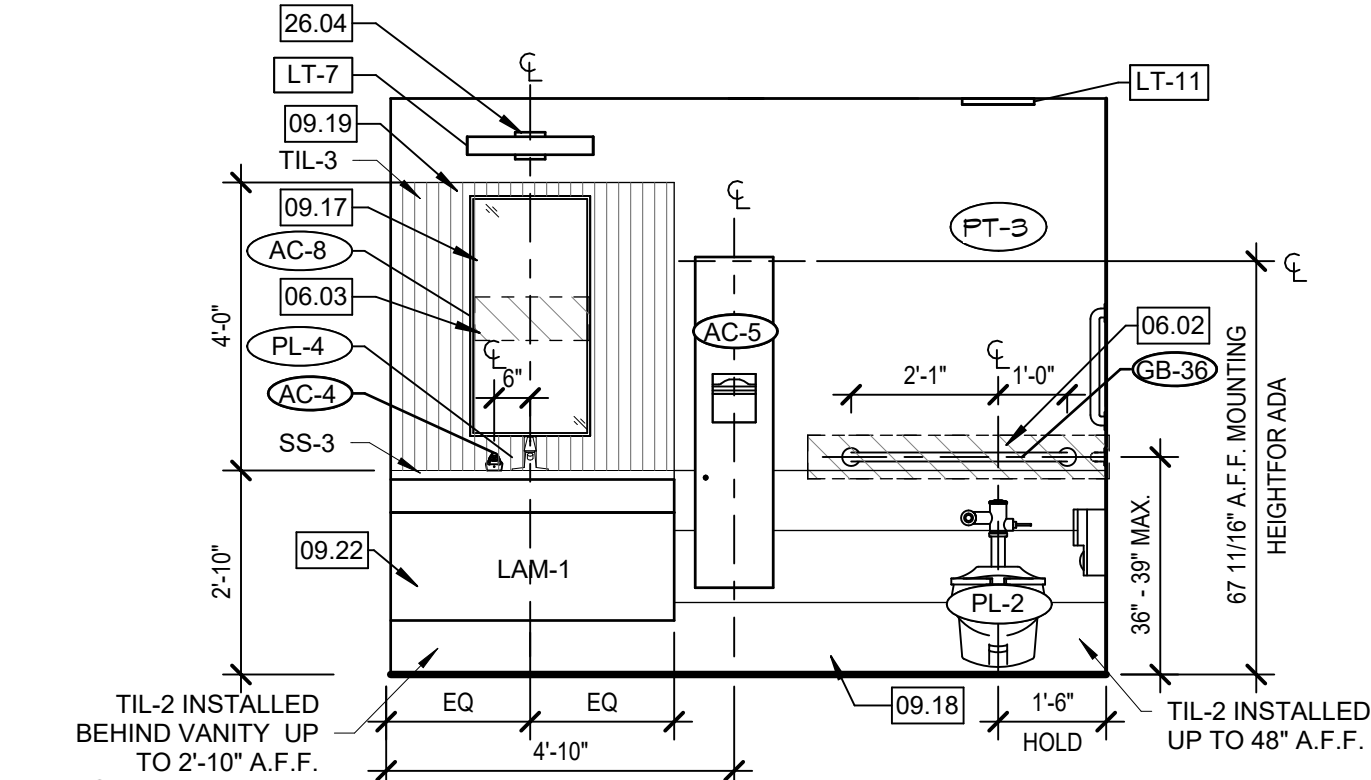
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 TYPICAL UNLESS NOTED OTHERWISE

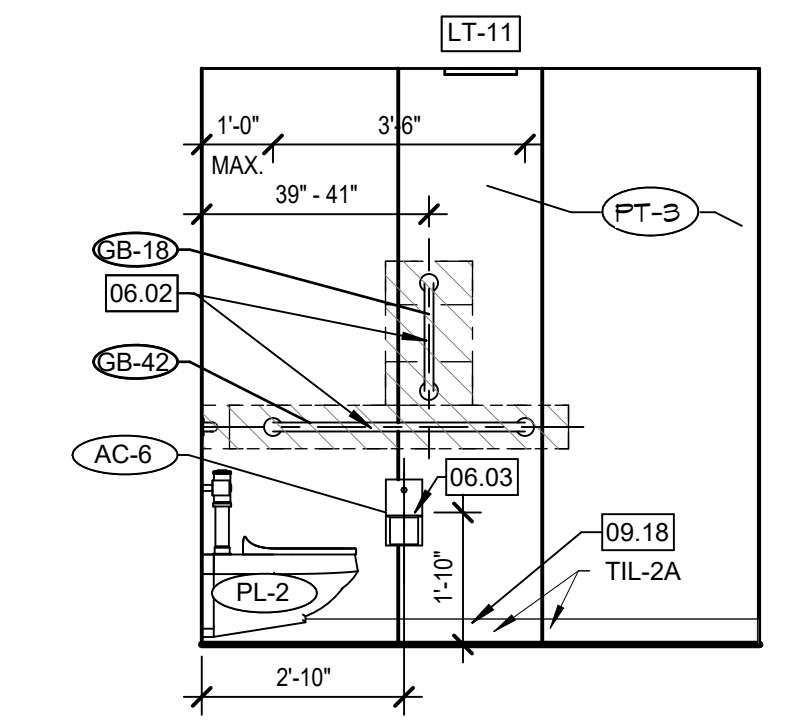
- 06.02 PROVIDE WOOD BLOCKING FOR INSTALLATION OF GRAB BARS TO FULLY COMPLY WITH ANSI A117.1
- 06.03 PROVIDE WOOD BLOCKING FOR BATHROOM FIXTURE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 09.04 PROVIDE ADA PANEL FINISHED TO MATCH ADJACENT CABINET AND TO MEET ANSI TYPE A REQUIREMENTS. WALL BASE, WALL COLOR, AND FLOORING ARE TO BE CONTINUED UNDER PANEL INSTANCES. ACCESSIBLE SINK MUST HAVE PIPES WRAPPED WITH INSULATION.
- 09.09 PROVIDE AND INSTALL SILICONE JOINT BETWEEN SOLID SURFACE AND BACKSPLASH TILE. COLOR TO MATCH COUNTERTOP COLOR.
- 09.17 BOTTOM OF REFLECTIVE SURFACE TO BE INSTALLED AT 40" MAX. A.F.F.
- 09.18 ALIGN GROUT JOINTS.
- 09.19 CENTER TILE ON VANITY.
- 09.20 ALIGN WALL TILE WITH COUNTERTOP.
- 09.21 INSTALL TRANSITION STRIP AT EDGE OF WALL TILE. SEE TRANSITION DETAILS.
- 09.22 PROVIDE LAMINATE ADA PANEL AND TO MEET ANSI TYPE A REQUIREMENTS. WALL BASE, WALL COLOR, AND FLOORING ARE TO BE CONTINUED UNDER PANEL INSTANCES. ACCESSIBLE SINK MUST HAVE PIPES WRAPPED WITH INSULATION. CENTER FIXTURE ON VANITY.
- 26.04



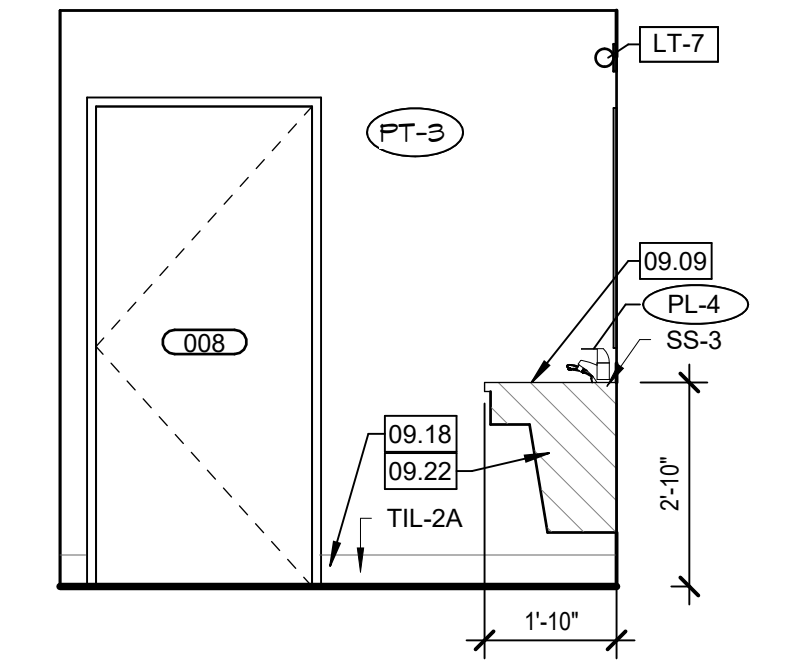
11 LOWER LEVEL RESTROOM PLAN
A6.15 SCALE: 3/8" = 1'-0"



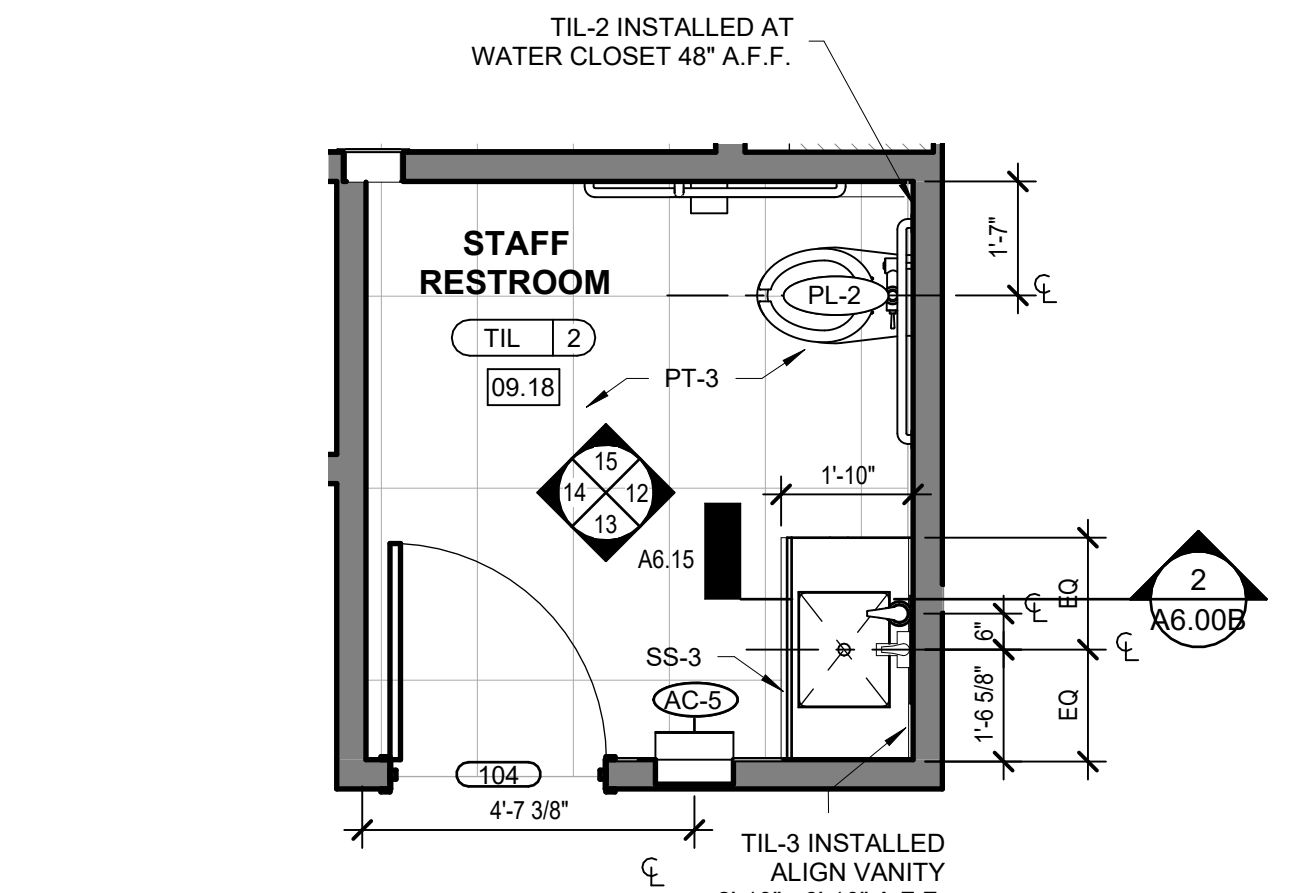
16 LOWER LEVEL RESTROOM ELEV. 1
A6.15 SCALE: 3/8" = 1'-0"



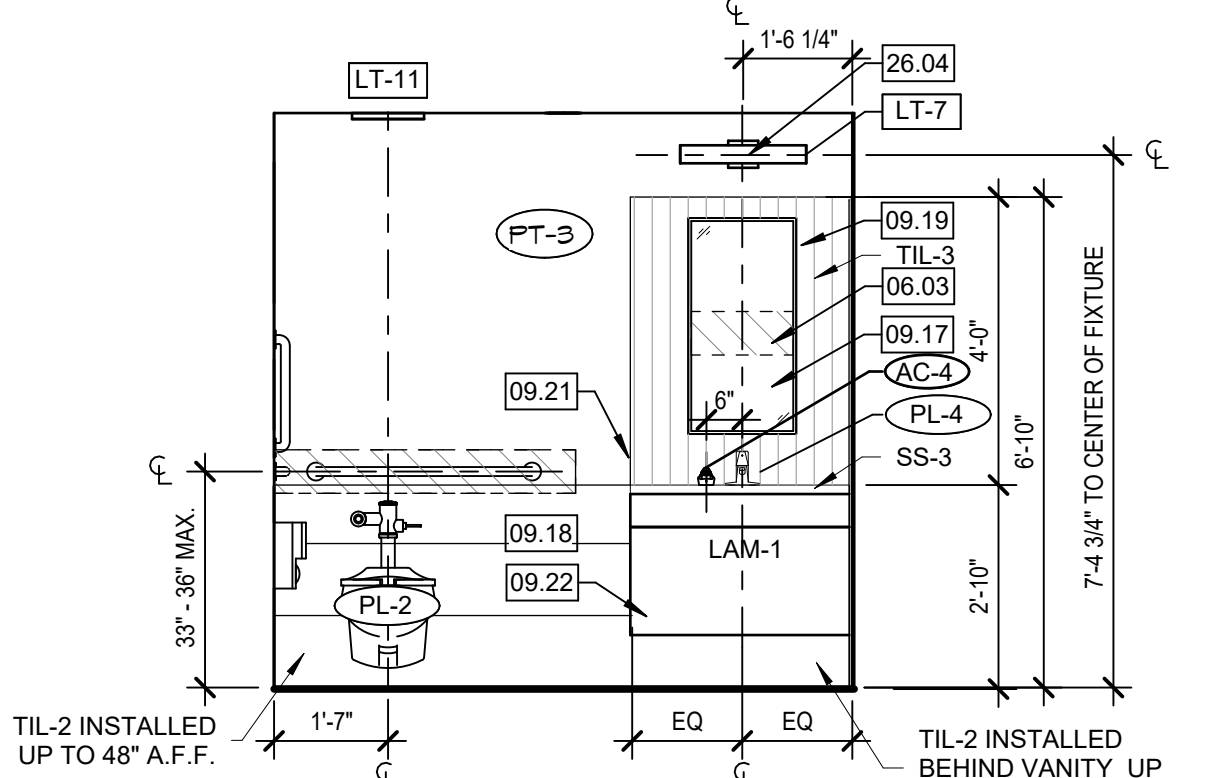
17 LOWER LEVEL RESTROOM ELEV. 2
A6.15 SCALE: 3/8" = 1'-0"



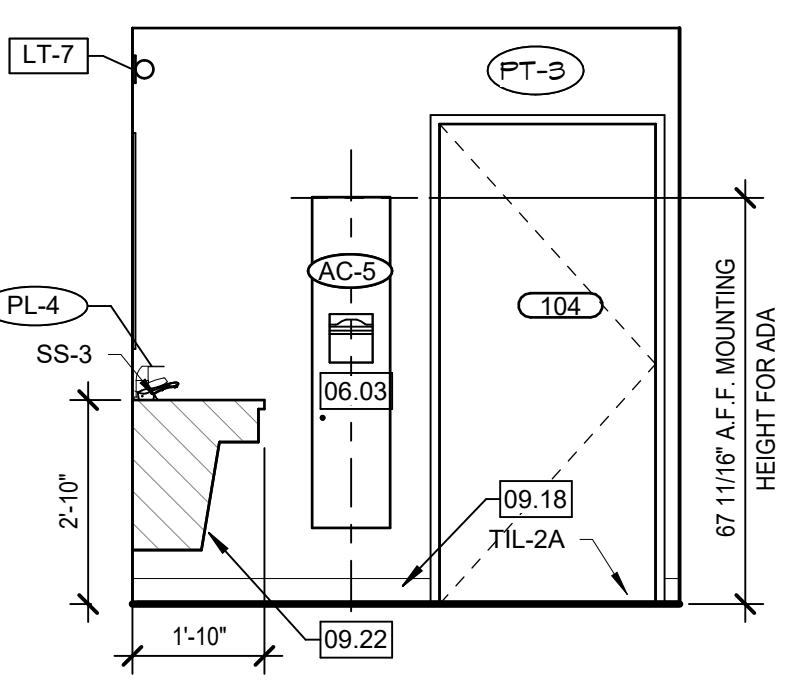
18 LOWER LEVEL RESTROOM ELEV. 4
A6.15 SCALE: 3/8" = 1'-0"



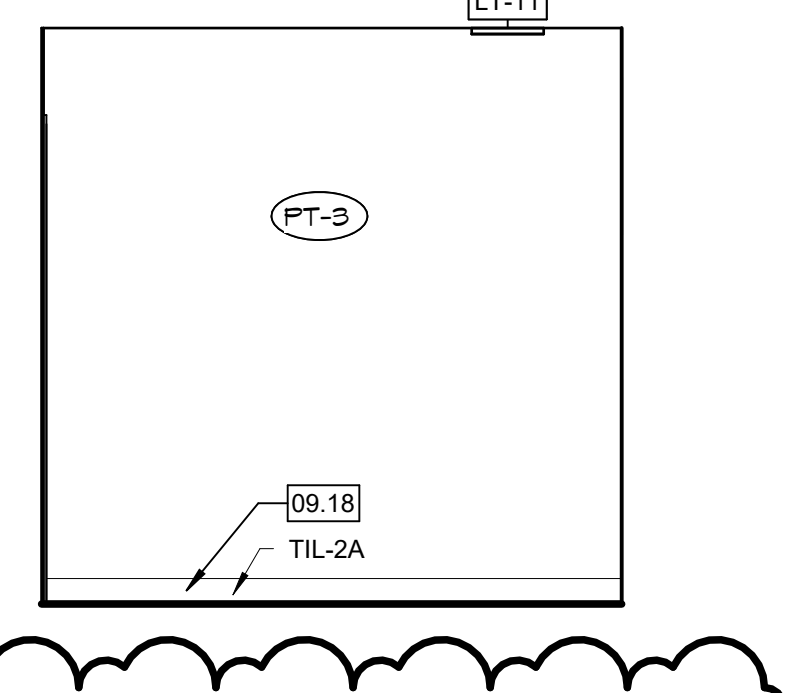
10 ENLARGED STAFF RESTROOM PLAN
A6.15 SCALE: 3/8" = 1'-0"



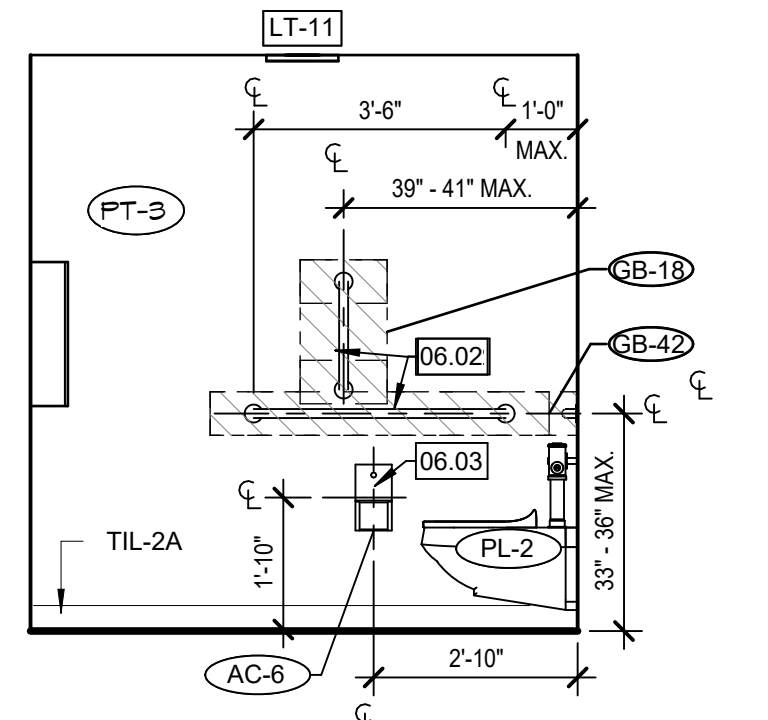
12 STAFF RESTROOM ELEV. 1
A6.15 SCALE: 3/8" = 1'-0"



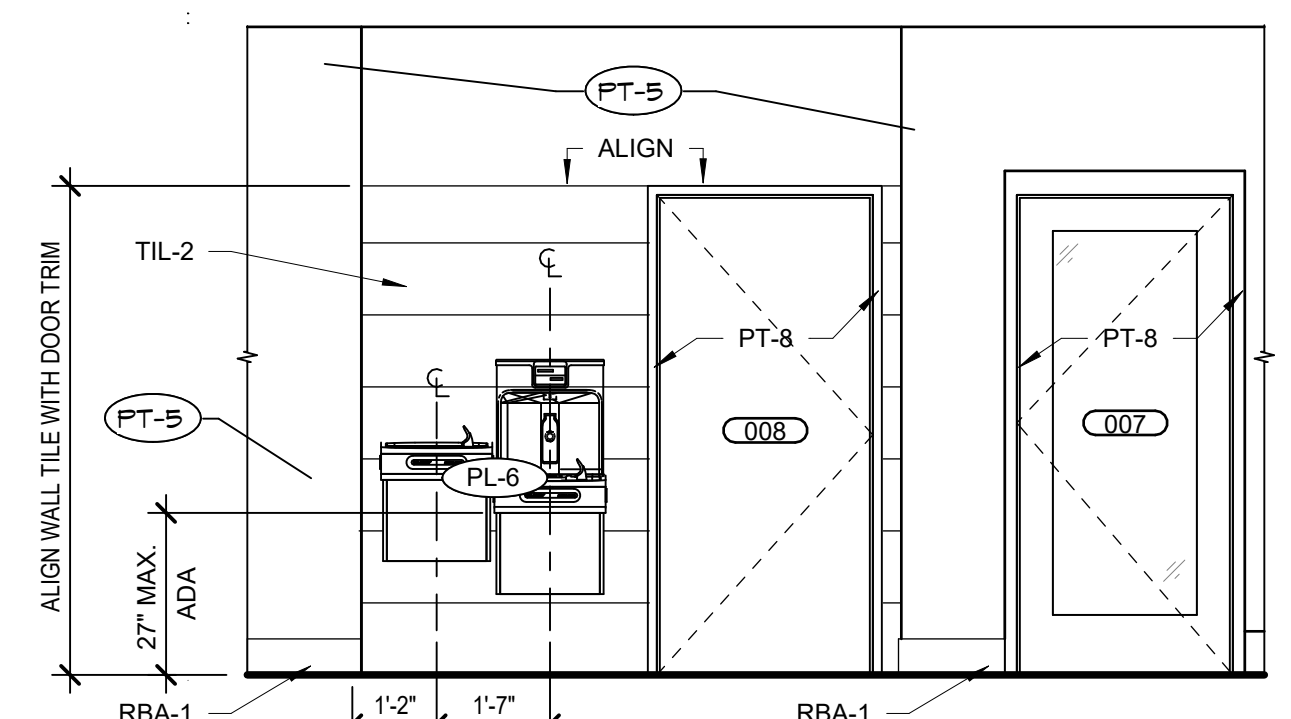
13 STAFF RESTROOM ELEV. 2
A6.15 SCALE: 3/8" = 1'-0"



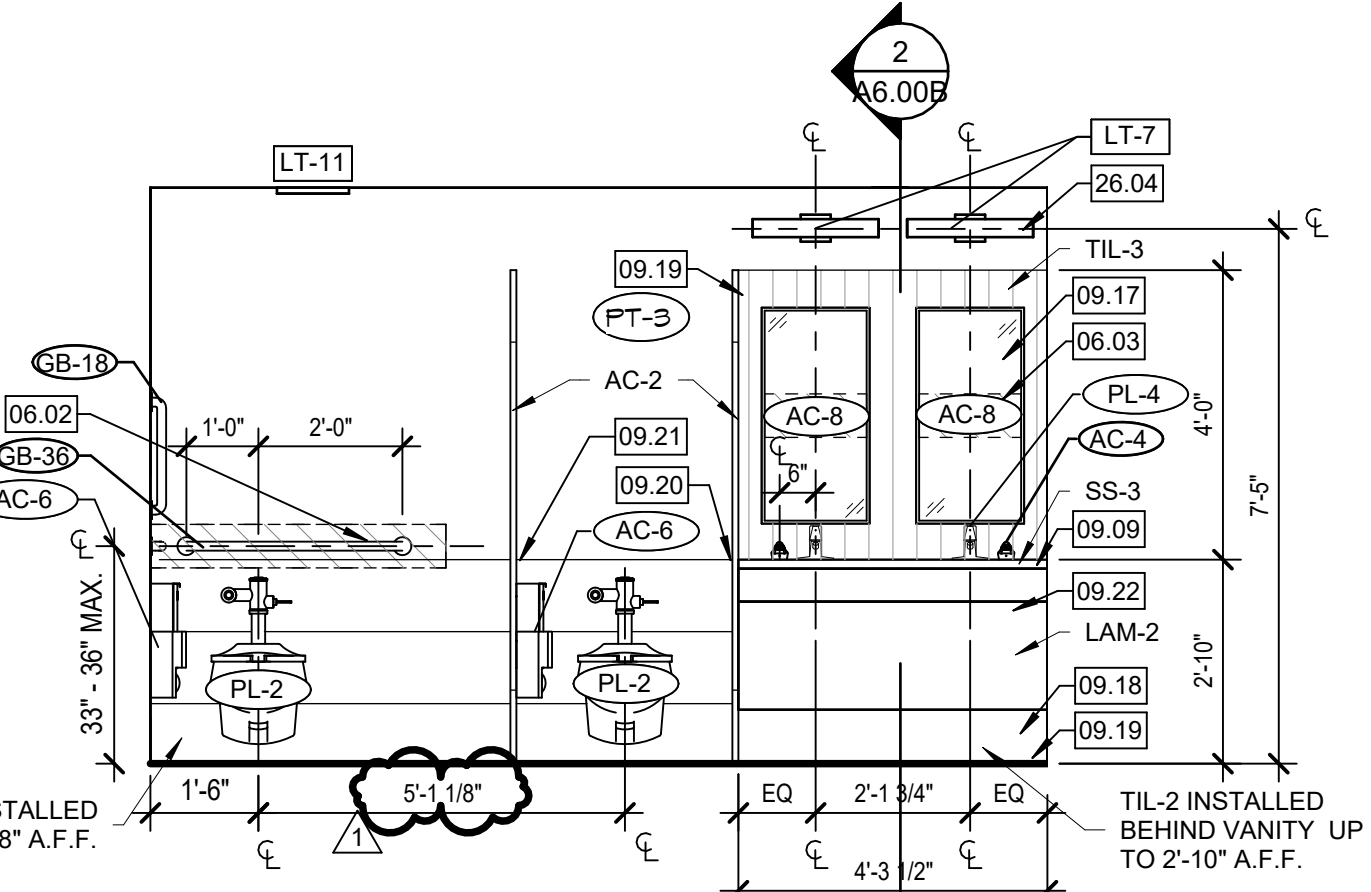
14 STAFF RESTROOM ELEV. 3
A6.15 SCALE: 3/8" = 1'-0"



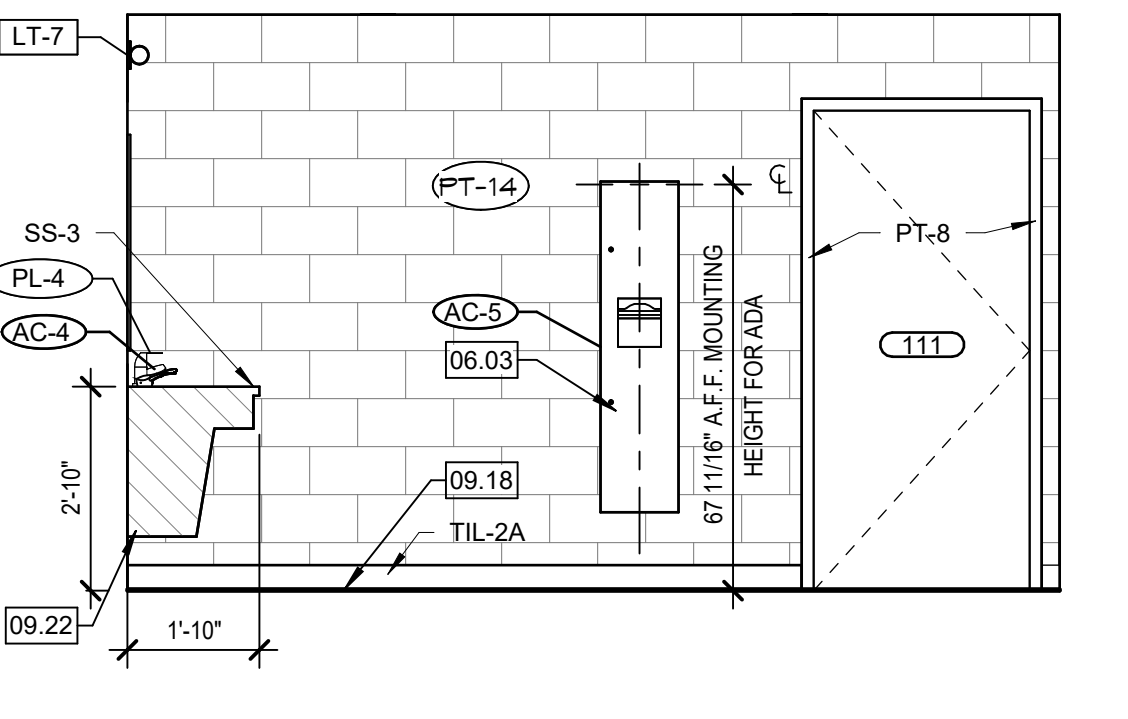
15 STAFF RESTROOM ELEV. 4
A6.15 SCALE: 3/8" = 1'-0"



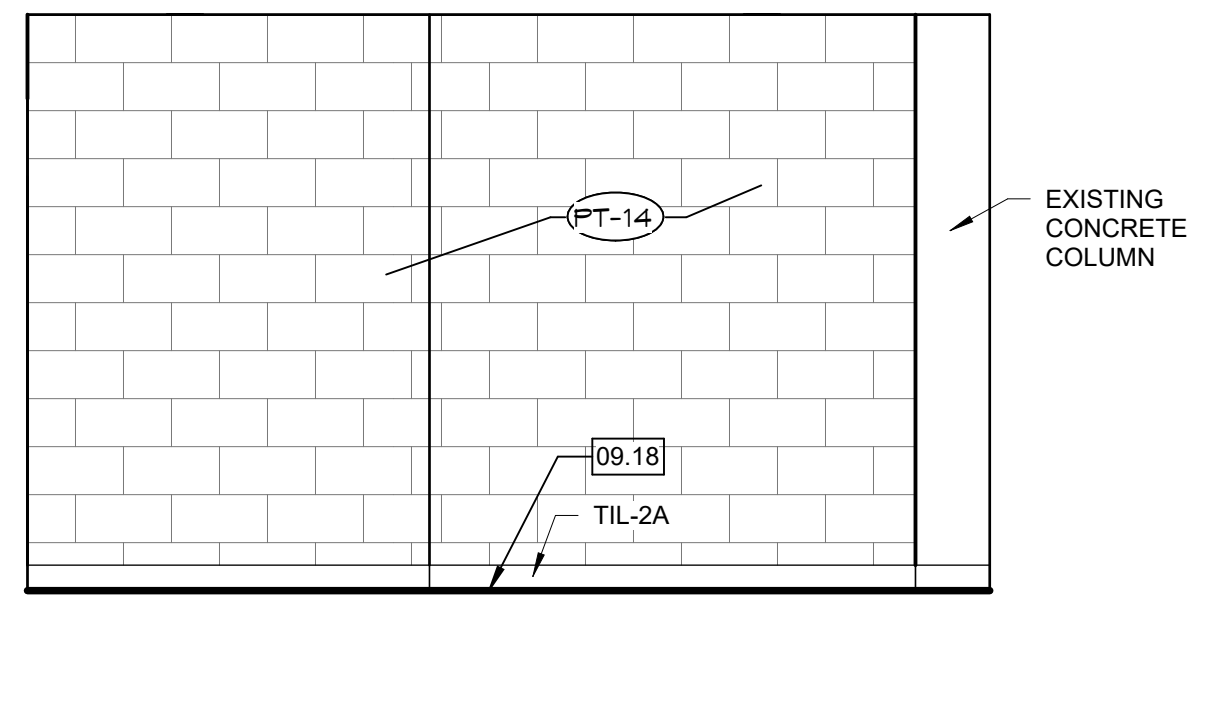
20 BASEMENT DRINKING FOUNTAIN
A6.15 SCALE: 3/8" = 1'-0"



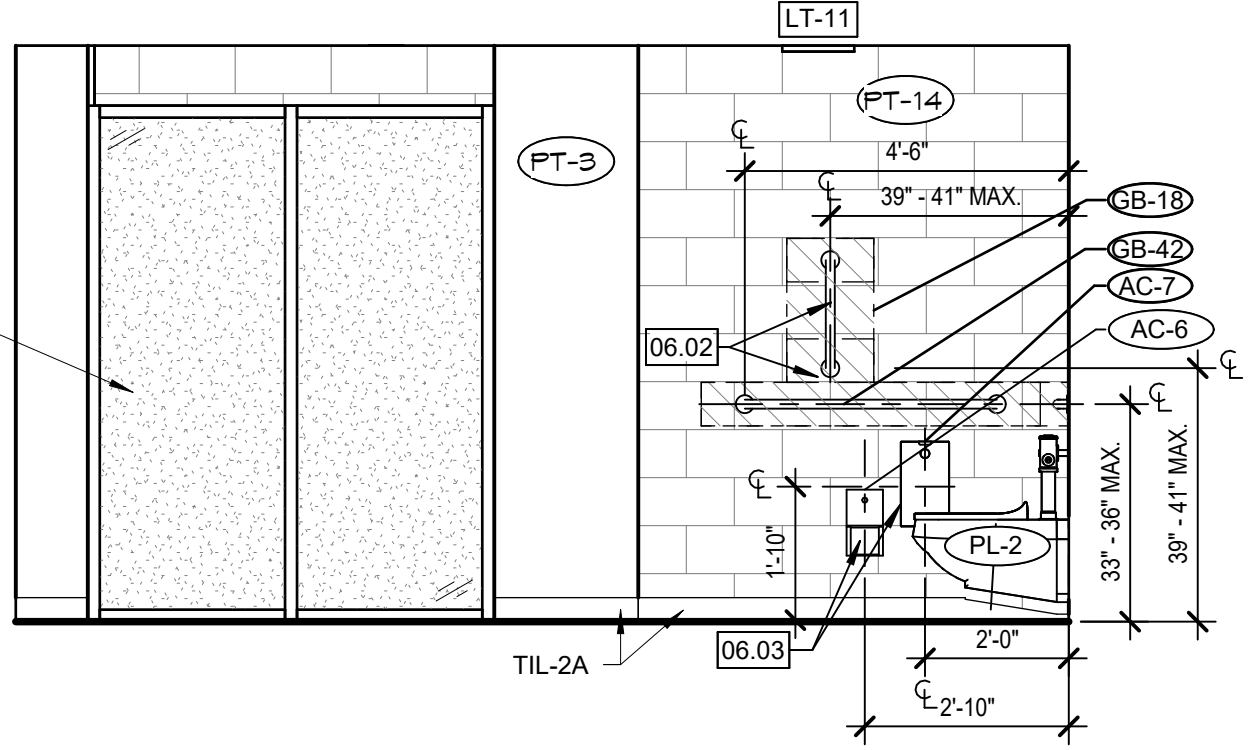
6 WOMEN'S RESTROOM ELEV. 1
A6.15 SCALE: 3/8" = 1'-0"



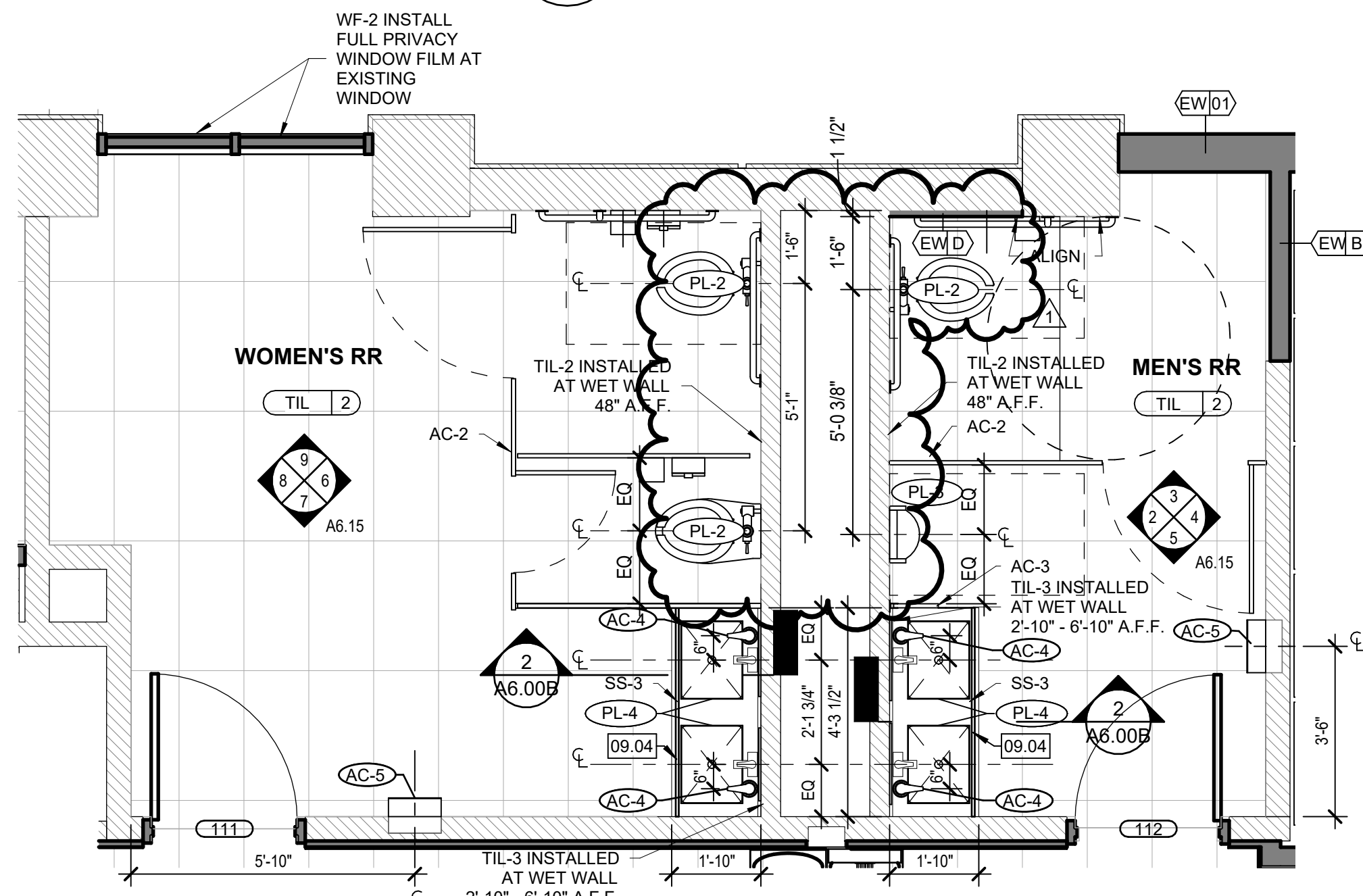
7 WOMEN'S RESTROOM ELEV. 2
A6.15 SCALE: 3/8" = 1'-0"



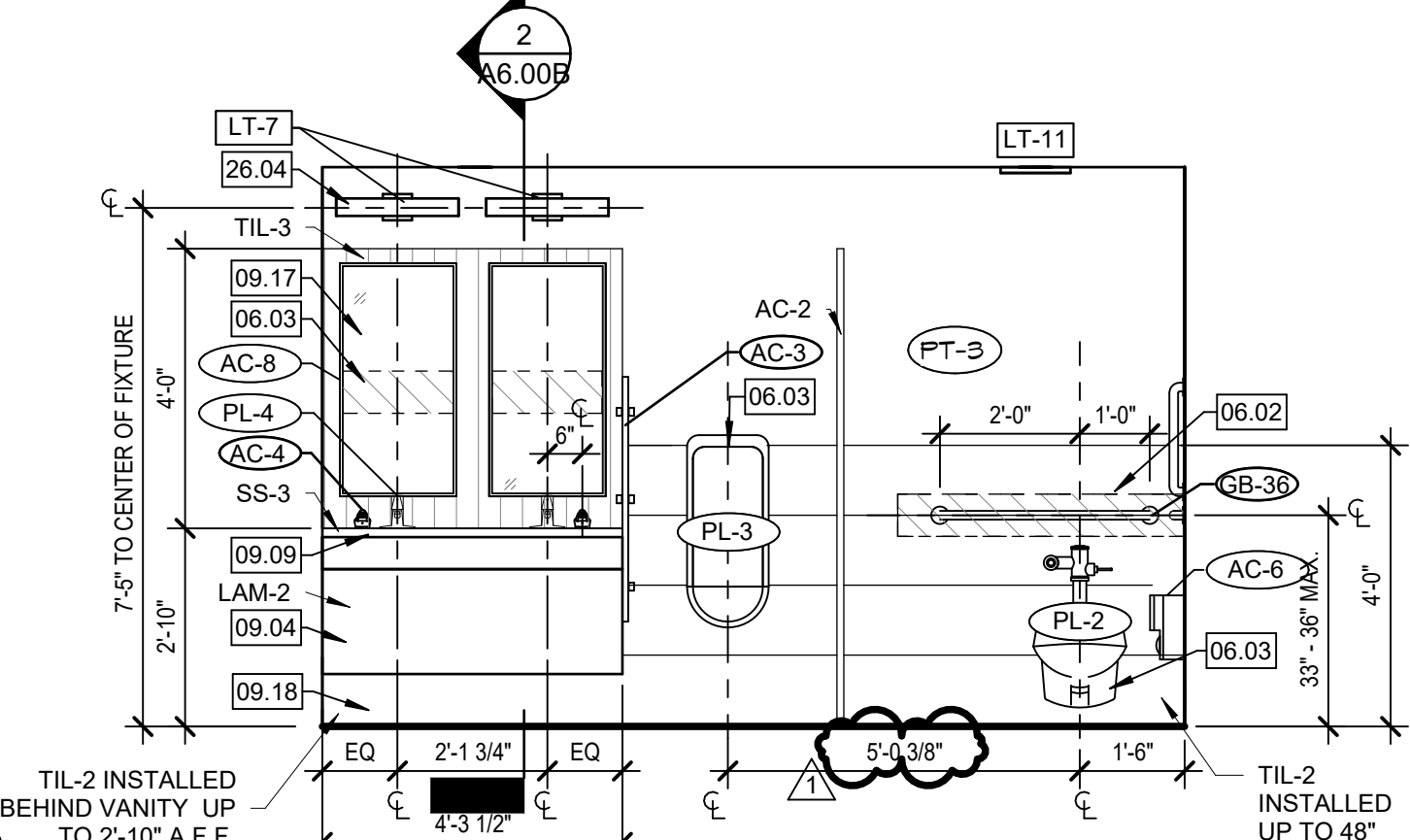
8 WOMEN'S RESTROOM ELEV. 3
A6.15 SCALE: 3/8" = 1'-0"



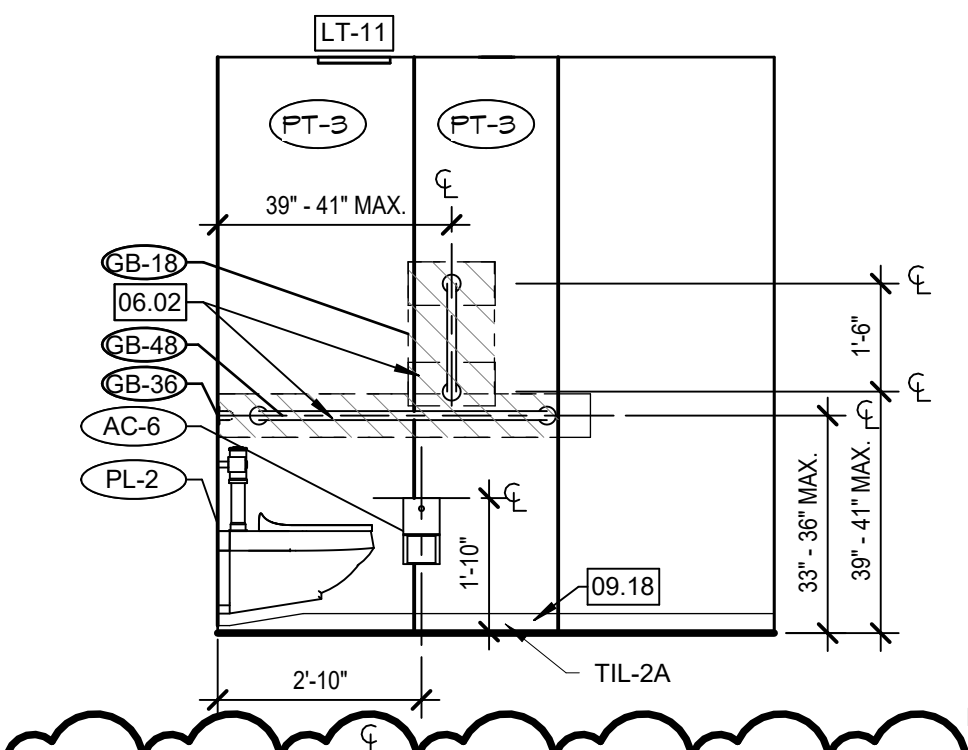
9 WOMEN'S RESTROOM ELEV. 4
A6.15 SCALE: 3/8" = 1'-0"



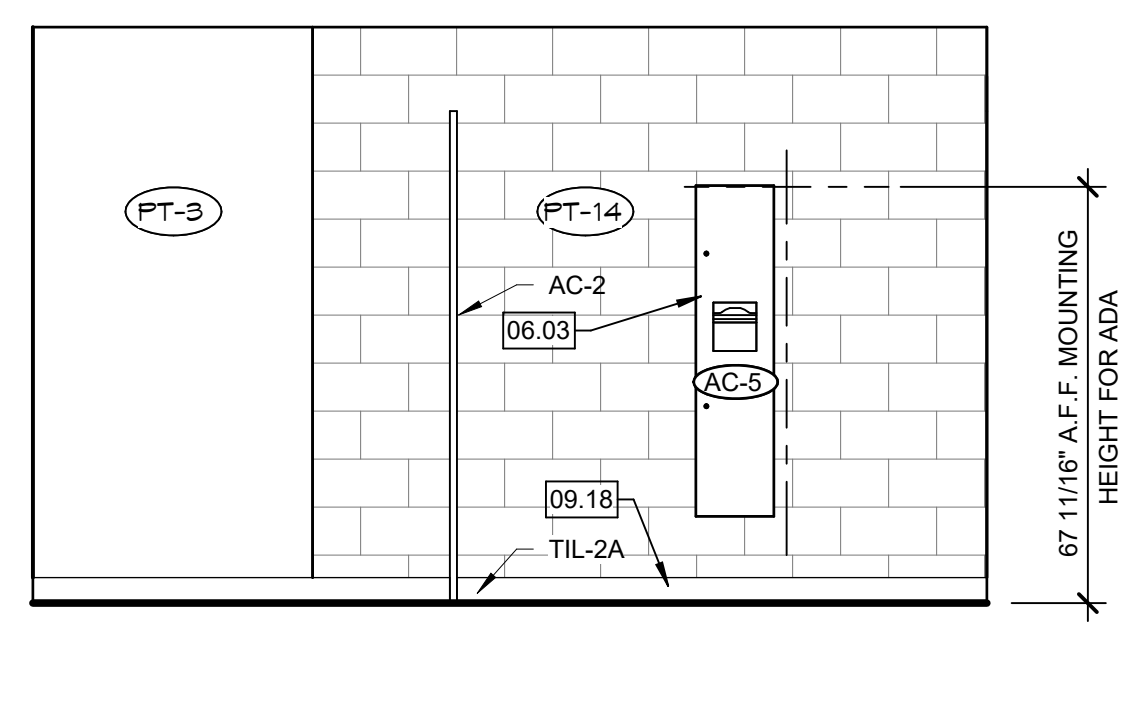
1 ENLARGED GROUND FLOOR RESTROOM PLAN
A6.15 SCALE: 3/8" = 1'-0"



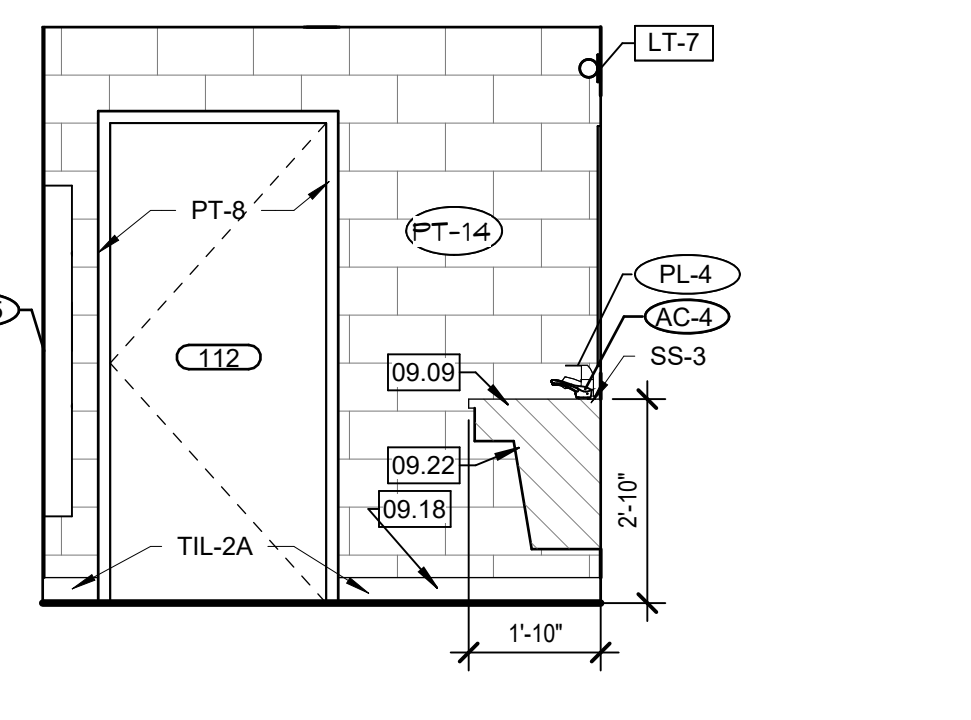
2 MEN'S RESTROOM ELEV. 1
A6.15 SCALE: 3/8" = 1'-0"



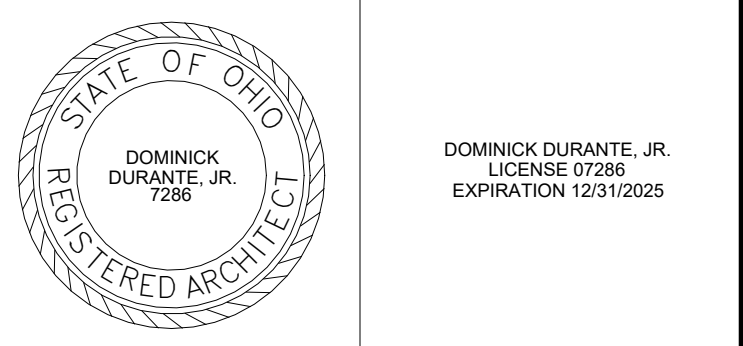
3 MEN'S RESTROOM ELEV. 2
A6.15 SCALE: 3/8" = 1'-0"



4 MEN'S RESTROOM ELEV. 3
A6.15 SCALE: 3/8" = 1'-0"



5 MEN'S RESTROOM ELEV. 4
A6.15 SCALE: 3/8" = 1'-0"



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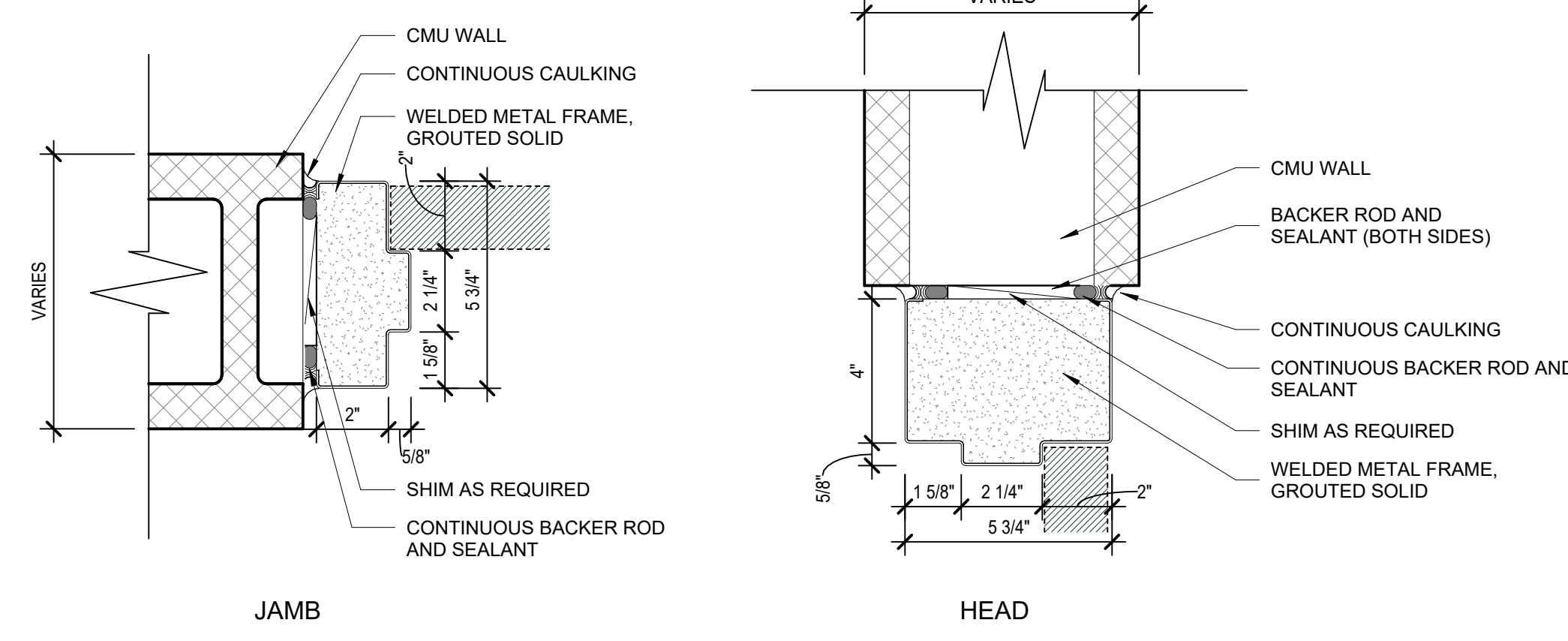
LDA Project No.23.47

FRAME DETAILS - CMU MASONRY OPENINGS

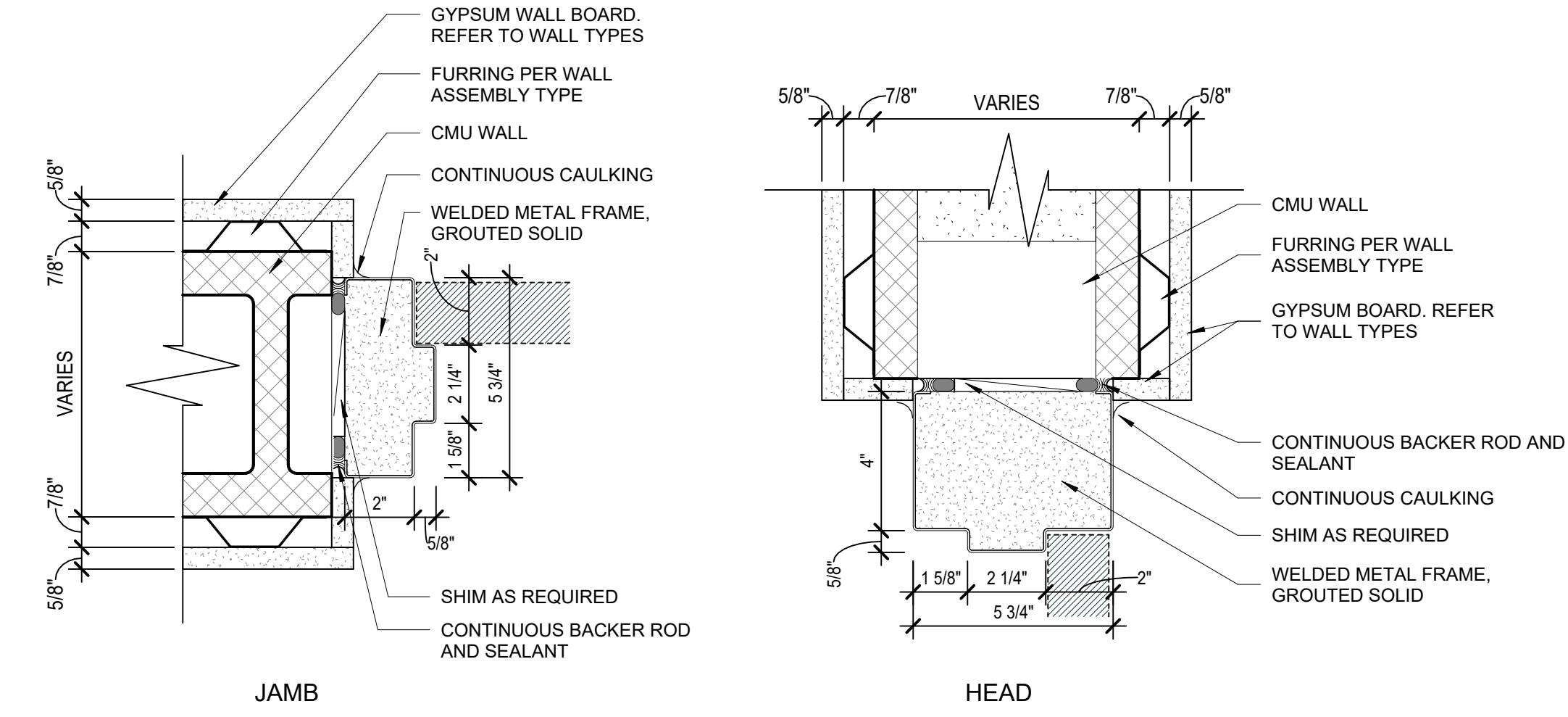
1. ACOUSTICAL SOUND BATT MAY OCCUR. REFER TO WALL TYPES
2. REFER TO G0.02 CONSTRUCTION TYPES & ASSEMBLIES FOR ADDITIONAL INFORMATION.
3. REFER TO G0.03 ACCESSIBILITY DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING THRESHOLD REQUIREMENTS.
4. SEE FLOOR PLANS FOR DOOR SWING DIRECTION.
5. REFER TO DOOR SCHEDULE FOR FRAME THROAT SIZE AND DOOR SLAB THICKNESS

HATCH INDICATES DOOR SLAB PER DOOR SCHEDULE

HATCH INDICATES EXISTING CONSTRUCTION TO REMAIN



FRAME TYPE A1 - CMU OPENING
1-3/4" DOOR SLAB SHOWN - REFER TO SCHEDULE

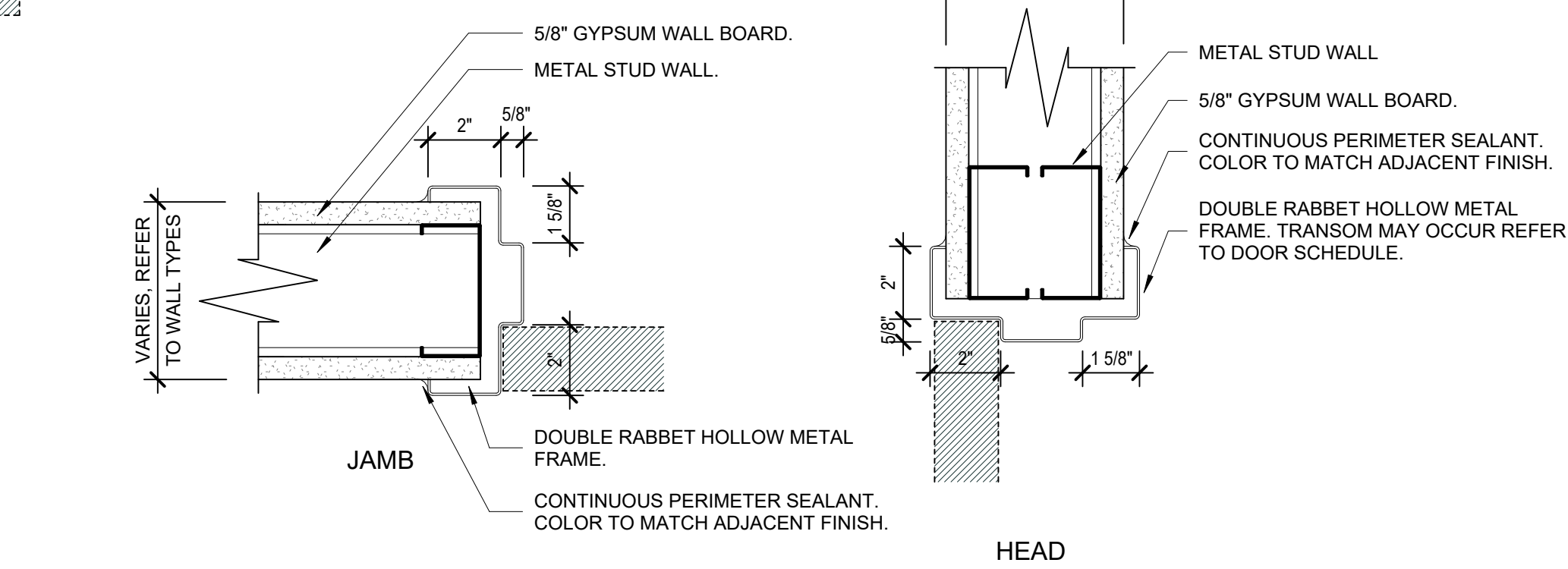


FRAME TYPE A2 - CMU OPENING, GYP. BD. BOTH SIDES
1-3/4" DOOR SLAB SHOWN - REFER TO SCHEDULE

FRAME DETAILS - METAL STUD OPENINGS

1. ACOUSTICAL SOUND BATT MAY OCCUR. REFER TO WALL TYPES
2. REFER TO G0.02 CONSTRUCTION TYPES & ASSEMBLIES FOR ADDITIONAL INFORMATION.
3. REFER TO G0.03 ACCESSIBILITY DIAGRAMS FOR ADDITIONAL INFORMATION REGARDING THRESHOLD REQUIREMENTS.
4. SEE FLOOR PLANS FOR DOOR SWING DIRECTION.
5. REFER TO DOOR SCHEDULE FOR FRAME THROAT SIZE AND DOOR SLAB THICKNESS

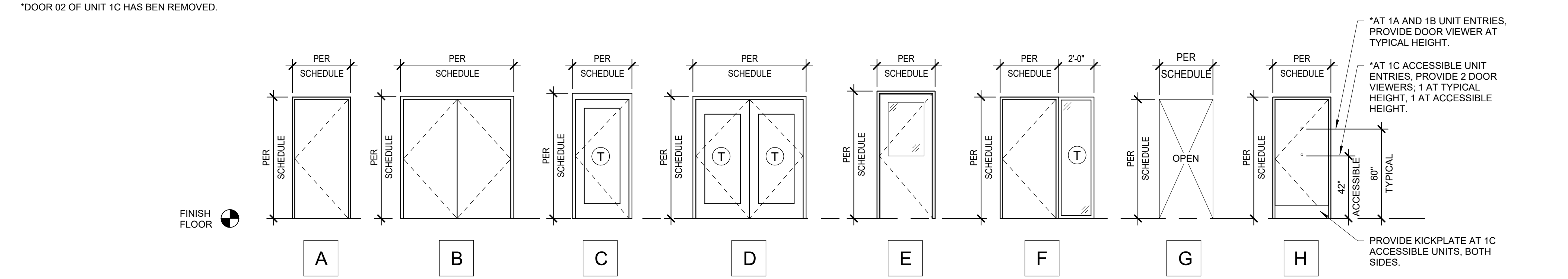
HATCH INDICATES DOOR SLAB PER DOOR SCHEDULE



FRAME TYPE B - METAL STUD OPENINGS
1-3/4" DOOR SLAB SHOWN - REFER TO SCHEDULE

| DOOR SCHEDULE - COMMON AREAS | | | | | | | | | | | | | | | |
|------------------------------|-----------------------------------|------|----------|--------|----------|----------|-----------|-------|----------|--------|-----------|----------|--------------|--------------------|---------|
| LOCATION | | DOOR | | | SIZE | | | FRAME | | | THRESHOLD | | HARDWARE SET | FIRE RATING (MIN.) | REMARKS |
| NUMBER | ROOM NAME | TYPE | MATERIAL | FINISH | HEIGHT | WIDTH | THICKNESS | TYPE | MATERIAL | FINISH | TYPE | MATERIAL | | | |
| LOWER LEVEL | | | | | | | | | | | | | | | |
| 001A | ELEVATOR LOBBY | A | IHM | PT-8 | 6' - 8" | 3' - 6" | 1 3/4" | B | HM | PT-8 | | | 001 | | |
| 001B | ELECTRICAL | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 002 | | |
| 002 | ELECTRICAL | B | ETR | PT-8 | 7' - 0" | 6' - 0" | | - | ETR | PT-8 | | | 003 | | |
| 003 | TRANSFORMER | B | ETR | PT-8 | 11' - 4" | 6' - 0" | | - | ETR | PT-8 | | | 003 | | |
| 004 | FIRE PUMP / WATER HEATERS | B | IHM | PT-8 | 6' - 8" | 6' - 0" | 1 3/4" | A1 | HM | PT-8 | | | 004 | | |
| 005 | CUSTODIAN | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 005 | | |
| 006 | STORAGE | B | IHM | PT-8 | 6' - 8" | 5' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 006 | | |
| 007 | FITNESS / REHAB | E | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 007 | | |
| 008 | CORRIDOR | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 007 | | |
| 009A | MAINTENANCE GARAGE | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 008 | | |
| 009B | MAINTENANCE GARAGE | B | IHM | PT-8 | 6' - 8" | 6' - 0" | 1 3/4" | A1 | HM | PT-8 | | | 009 | | |
| 010A | ENTRY | C | ETR | PT-8 | 7' - 0" | 3' - 0" | | - | ETR | PT-8 | | | 010 | | |
| 010B | ENTRY | A | IHM | PT-8 | 7' - 0" | 3' - 6" | 1 3/4" | A2 | HM | PT-8 | | | 011 | | |
| 011 | STORAGE | A | IHM | PT-8 | 8' - 8" | 3' - 0" | 1 3/4" | A1 | HM | PT-8 | | | 012 | | |
| S-B0 | STAIR B | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 013 | 90 | |
| GROUND FLOOR | | | | | | | | | | | | | | | |
| 101A | VESTIBULE | D | AL/TG | PF | 7' - 0" | 6' - 0" | | - | AL | PF | | | 015 | | |
| 101B | VESTIBULE | D | AL/TG | PF | 7' - 0" | 6' - 0" | | - | AL | PF | | | 015 | | |
| 102A | CORRIDOR | F | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 016 | | |
| 102B | OFFICE | A | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 017 | | |
| 103A | OPEN OFFICE | F | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 018 | | |
| 103B | OPEN OFFICE | C | AL/TG | PF | 7' - 0" | 3' - 0" | | - | AL | PF | | | 019 | | |
| 104 | STAFF RESTROOM | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 020 | | |
| 105 | STORAGE CLOSET | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 021 | | |
| 106 | IT | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 022 | | |
| 107 | OFFICE | A | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 023 | | |
| 108 | OFFICE | A | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 023 | | |
| 109 | UTILITY | A | HM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | ETR | PT-8 | | | 024 | | |
| 110A | COMMUNITY ROOM | F | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 025 | | |
| 110B | COMMUNITY ROOM | F | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 026 | | |
| 111 | WOMEN'S RR | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | ETR | PT-8 | | | 007 | | |
| 112 | MEN'S RR | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | ETR | PT-8 | | | 007 | | |
| 114 | CONFERENCE ROOM / SOCIAL SERVICES | F | IHM | PT-8 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-8 | | | 027 | | |
| 115 | CUSTODIAN | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 024 | | |
| 116 | FIRE COMMAND | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 028 | 45 | |
| 118 | VENDING | G | | | 0' - 0" | 0' - 0" | | - | | | | | 029 | | |
| 119 | FURNITURE CLOSET | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-8 | | | 028 | | |
| S-A1 | STAIR A | A | IHM | PT-8 | 7' - 0" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 013 | 90 | |
| S-B1 | STAIR B | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | ETR | PT-8 | | | 030 | 90 | |
| 2ND - 15TH FLOORS | | | | | | | | | | | | | | | |
| S-AX | STAIR A | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 013 | 90 | |
| S-BX | STAIR B | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 013 | 90 | |
| X05 | TERRACE | C | AL/TG | PF | 7' - 0" | 2' - 10" | | - | AL | PF | | | 031 | | |
| X11A | ELEVATOR LOBBY | B | IHM | PT-8 | 6' - 8" | 6' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 032 | 45 | |
| X11B | ELEVATOR LOBBY | B | IHM | PT-8 | 6' - 8" | 6' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 033 | 45 | |
| X12 | LAUNDRY | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 034 | 45 | |
| X13 | UTILITY | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 035 | 45 | |
| X14 | CUSTODIAN | A | IHM | PT-8 | 6' - 8" | 3' - 0" | 1 3/4" | A2 | HM | PT-8 | | | 035 | 45 | |
| ZZ | TERRACE | C | AL/TG | PF | 7' - 0" | 2' - 10" | | - | AL | PF | | | 031 | | |
| PENTHOUSE | | | | | | | | | | | | | | | |
| P1 | STAIR B | A | IHM | PT-8 | 7' - 0" | 3' - 0" | 1 3/4" | A1 | HM | PT-8 | | | 024 | 90 | |
| S-BP | STAIR B | A | IHM | PT-8 | 7' - 0" | 3' - 0" | 1 3/4" | A1 | HM | PT-8 | | | 036 | 90 | |

| DOOR SCHEDULE - UNIT 1A | | | | | | | | | | | | | | | |
|-------------------------|------------|-------------|----------|--------|---------|----------|-----------|-------|----------|--------|-----------|----------|--------------|--------------------|---------|
| LOCATION | | DESCRIPTION | | | SIZE | | | FRAME | | | THRESHOLD | | HARDWARE SET | FIRE RATING (MIN.) | REMARKS |
| NUMBER | ROOM NAME | TYPE | MATERIAL | FINISH | HEIGHT | WIDTH | THICKNESS | TYPE | MATERIAL | FINISH | TYPE | MATERIAL | | | |
| 01 | UNIT ENTRY | H | IHM | PT-10 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-10 | | | TU-01.1 | 20 | |
| 02 | BATHROOM | A | SCW | PT-2 | 6' - 8" | 2' - 8" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| 03 | BEDROOM | A | SCW | PT-2 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| DOOR SCHEDULE - UNIT 1B | | | | | | | | | | | | | | | |
| 01 | UNIT ENTRY | H | IHM | PT-10 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-10 | | | TU-01.2 | 20 | |
| 02 | BEDROOM | A | SCW | PT-2 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| 03 | BATHROOM | A | SCW | PT-2 | 6' - 8" | 2' - 10" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| DOOR SCHEDULE - UNIT 1C | | | | | | | | | | | | | | | |
| 01 | UNIT ENTRY | H | IHM | PT-10 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-10 | | | TU-01.1 | 20 | |
| 03 | BATHROOM | A | SCW | PT-2 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| 04 | BEDROOM | A | SCW | PT-2 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-2 | | | TU-02.1 | | |
| 05 | CLOSET | A | SCW | PT-2 | 6' - 8" | 3' - 0" | 1 3/4" | B | HM | PT-2 | | | TU-03 | | |

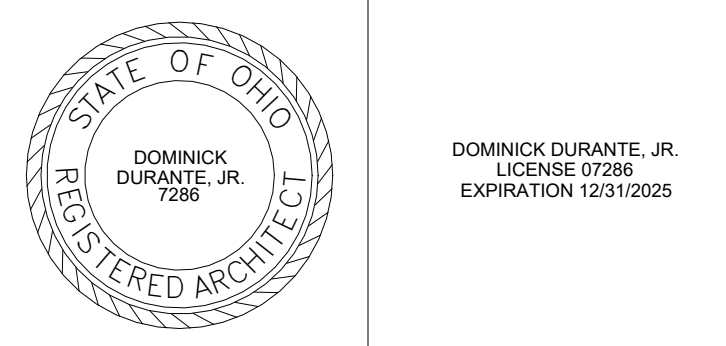


The Offices at the Agora
5000 Euclid Avenue, Suite 104
Cleveland, OH 44103
LDAArchitecture.com
216.932.1890

| REV | DATE | DESCRIPTION |
|------------|------|-----------------------------|
| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

- DOOR SCHEDULE LEGEND**
- ABBREVIATIONS - MATERIALS:
- AL ALUMINUM
 - EXISTING TO REMAIN
 - ETR HOLLOW METAL
 - IHM INSULATED HOLLOW METAL
 - MTL METAL
 - PT PAINT
 - PF PRE-FINISHED
 - SCW SOLID CORE WOOD
 - TG TEMPERED GLASS
- (T) TEMPERED GLASS

- DOOR SCHEDULE GENERAL NOTES**
1. ALL EXISTING DOORS, FRAMES AND HARDWARE ARE TO BE REPLACED UNLESS NOTED OTHERWISE. REFER TO DOOR SCHEDULE.
 2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING DOOR OPENING DIMENSIONS IN FIELD WHERE NEW DOORS AND FRAMES ARE BEING PROVIDED AT EXISTING OPENINGS. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 3. ALL DOORS AND FRAMES ARE TO HAVE A PAINTED FINISH UNLESS NOTED OTHERWISE. REFER TO FINISH SCHEDULE.



UNIT & COMMON AREA FINISH SCHEDULE

| KEY | LOCATION | MANUFACTURER | COLLECTION/STYLE | COLORWAY | FINISH | DIMENSIONS | COMMENTS | CONTACT |
|------------------------------|---|-------------------------|---|-------------------------------------|--|--------------------------------------|--|---|
| ACS ACOUSTICS | | | | | | | | |
| ACS-1 | COMMUNITY ROOM & ELEVATOR LOBBIES - ALL FLOORS | SOELBERG | MUTO - BLOX BAFFLES | LAMBS EAR | N/A | LENGTH: TBD, DEPTH: 4" | CLASS A - ASTM-E84; REFER TO A5.00 SERIES; INSTALL 8" O.C.; INCLUDE COUPLER HARDWARE | MELANIE PROULX, INDIGO SPEC GROUP; MPROULX@INDIGOSPECGROUP.COM |
| ACS-1 ALTERNATE | COMMUNITY ROOM & ELEVATOR LOBBIES - ALL FLOORS | TURF | | | | | | JENNA FARLEY, INTERIOR SUPPLY; JFARLEY@INTERIORSUPPLYINC.COM |
| ACT | ACOUSTIC CEILING TILE | | | | | | | |
| ACT-1 | THROUGHOUT | USG | ORION 75 FLB #62155 | WHITE | | 24" X 48" | INSTALL WITH GRID OPTION 'E' DXT, WHITE; ANTI-MOLD AND MILDEW RESISTANT | MORGAN (MINGUS) KIKO, MMINGUS@USG.COM; USG |
| CAB CABINETS | | | | | | | | |
| CAB-1 | UNIT KITCHEN & BATHROOM | MASTER WOODCRAFT | ROMA SQUARE | GRIGIO | N/A | SEE A6.00 SERIES | INCLUDE TOEKICK TO MATCH CABINET FINISH; HARDWARE: BERENSON CONTEMPORARY ADVANTAGE ONE 128MM CC PULL, FINISH: CHROME | LEO DUCKSTEIN, CABINET WORKS GROUP; LEO.DUCKSTEIN@CABINETWORKSGROUP.COM |
| CAB-2 | COMMUNITY ROOM KITCHENETTE & BOOKCASE | CUSTOM | SHAKER STYLE, FULL-OVERLAY | PAINTED PT-9 | SATIN | SEE A6.00 SERIES | INCLUDE TOEKICK TO MATCH CABINET FINISH; HARDWARE: BERENSON CONTEMPORARY ADVANTAGE ONE 128MM CC PULL, FINISH: CHROME | DAVID HERZBERG, BENNET SUPPLY / ROBERT@TOPCRAFTCASEWORK.COM |
| CPT CARPET TILE | | | | | | | | |
| CPT-1 | CONFERENCE ROOM / SOCIAL SERVICE OFFICE | MILLIKEN | COASTLINE - LANDSCAPE LND153-144 | PAMPAS GRASS | | 50CM X 50CM | INSTALL: MONOLITHIC; STAIN AND SOIL RESISTANT | DEBBIE FILING, MILLIKEN; DEBBIE.FILING@MILLIKEN.COM |
| FAB FABRIC | | | | | | | | |
| FAB-1 | UPHOLSTERED BENCH | MOMENTUM | CARSON CV | ROAST | PROTECTIVE OVERCOAT | 54"W; NO REPEAT | 100% CLEAN VINYL/PHthalate FREE; POLYESTER BACKING | COURTNEY BELL, MOMENTUM; CBELL@MOMTEX.COM |
| FRP | FIBER REINFORCED PLASTIC | | | | | | | |
| FRP-1 | UTILITY SPACES | MARLITE | SMOOTH | WHITE | 4' X 8' SHEET | | INCLUDE CORNER AND EDGE TRIM IN WHITE | GREG LEARY, MARLITE; GLEARY@MARLITE.COM |
| GR GROUT | | | | | | | | |
| GR-1 | ALL TILE | TEC | | WHITE | | 1/8" GROUT JOINT | 1/8" GROUT JOINTS; ALIGN FLOOR, WALL, AND BASE TILE GROUT JOINTS | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| LAM LAMINATE | | | | | | | | |
| LAM-1A | COMMON AREAS & RESIDENT CORRIDORS 2-15 - WALL | WILSONART | COMPACT LAMINATE | PHANTOM ECRU 8212 | VELVET MATTE | 48" X 96" SHEET | VERTICAL GRAIN; INSTALL WITH L-CHANNEL AT EDGES, CHROME FINISH; INSTALL WITH Z-CLIPS AT WALL | DAVID HERZBERG, BENNET SUPPLY / ROBERT@TOPCRAFTCASEWORK.COM |
| LAM-1B | COMMON AREAS & RESIDENT CORRIDORS 2-15 - CEILING & UNIT ENTRY | WILSONART | PREMIUM LAMINATE | PHANTOM ECRU 8212K-28 | GLOSS LINE FINISH | 48" X 96" SHEET | AEON SCRATCH RESISTANTS; INSTALL WITH CHROME L-CHANNEL & 3MM WILSONART PVC EDGE BAND | DAVID HERZBERG, BENNET SUPPLY / ROBERT@TOPCRAFTCASEWORK.COM |
| LAM-2 | PUBLIC RESTROOM - VANITY APRON | WILSONART | PREMIUM LAMINATE | SLATE GREY D91-60 | MATTE FINISH | 48" X 96" SHEET | | DAVID HERZBERG, BENNET SUPPLY / ROBERT@TOPCRAFTCASEWORK.COM |
| LVT LUXURY VINYL TILE | | | | | | | | |
| LVT-1 | UNITS THROUGHOUT (EXCEPT ANSI TYPE A BATHROOMS) | MILLIKEN | THE MAGIC HOUR - HORIZON | LIGHT | | 9.84" X 59.06" | 22ML WEAR LAYER, 5MM THICKNESS; GLUE DOWN, INSTALLATION: RANDOM | DEBBIE FILING, MILLIKEN; DEBBIE.FILING@MILLIKEN.COM |
| MIR MIRROR | | | | | | | | |
| MIR-1 | ELEVATOR LOBBIES - 2ND - 15TH FLOOR | - | FLAT PLATE MIRROR WITH 1" WOOD TRIM | TRIM: STAINED TO MATCH LAM-1 | N/A | | | |
| MIR-2 | FITNESS CENTER / REHAB & FLEX AMENITY | - | FLAT PLATE MIRROR WITH 1" ALUMINUM FRAME | N/A | N/A | 4' X 8' | WALL-MOUNTED; | |
| PT PAINT | | | | | | | | |
| PT-1 | CEILINGS - THROUGHOUT | SHERWIN WILLIAMS | PROMAR 200 | SW7004 SNOWBOUND | FLAT | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-2 | DOOR/TRIM - UNITS | SHERWIN WILLIAMS | PROMAR 200 | SW7004 SNOWBOUND | SATIN | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-3 | WALLS - FIELD - UNITS & COMMON AREA | SHERWIN WILLIAMS | PROMAR 200 | SW7004 SNOWBOUND | EGGSHELL | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-4 | WALLS - ACCENT - UNIT LIVING ROOM | SHERWIN WILLIAMS | PROMAR 200 | SW7016 MINDFUL GRAY | EGGSHELL | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-5 | WALLS - FIELD - COMMON AREA | SHERWIN WILLIAMS | PROMAR 200 | SW7029 AGREEABLE GRAY | EGGSHELL | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-6 (NOT USED) | | | | | | | | |
| PT-7 | WALLS - ACCENT - COMMON AREA | SHERWIN WILLIAMS | PROMAR 200 | SW7660 EARL GREY | EGGSHELL | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-8 | DOOR/TRIM - COMMON AREA | SHERWIN WILLIAMS | PROMAR 200 | SW7004 SNOWBOUND | SATIN | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-9 | BOOKCASE & MILWORK - COMMUNITY ROOM | SHERWIN WILLIAMS | PROMAR 200 | SW7660 EARL GREY | SATIN | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-10 | DOOR/TRIM - RESIDENT CORRIDOR (CORRIDOR SIDE) | SHERWIN WILLIAMS | PROMAR 200 | SW7660 EARL GREY | SATIN | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-11 | WALLS - FIELD - COMMON AREA BLOCK WALLS | SHERWIN WILLIAMS | PRO INDUSTRIAL WATER BASED CATALYZED EPOXY GLOSS B73 SERIES | SW7029 AGREEABLE GRAY | WIPEABLE/GLOSS | N/A | 1 COAT PRIMER; SW HEAVY DUTY BLOCK FILLER; 2 COAT FINISH AS SPECIFIED | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-12 | WALLS - ACCENT - CORRIDORS FLOOR 2-15 BLOCK WALLS | SHERWIN WILLIAMS | PRO INDUSTRIAL WATER BASED CATALYZED EPOXY GLOSS B73 SERIES | SW7642 PAVESTONE | WIPEABLE/GLOSS | N/A | 1 COAT PRIMER; SW HEAVY DUTY BLOCK FILLER; 2 COAT FINISH AS SPECIFIED | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-13 | METAL HANDRAILS - STAIRWELLS | SHERWIN WILLIAMS | DIRECT-TO-METAL ALKID ENAMEL | SW7642 PAVESTONE | SATIN | N/A | | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| PT-14 | WALLS - FIELD - PUBLIC RESTROOMS BLOCK WALLS | SHERWIN WILLIAMS | PRO INDUSTRIAL WATER BASED CATALYZED EPOXY GLOSS B73 SERIES | SW7004 SNOWBOUND | WIPEABLE/GLOSS | N/A | 1 COAT PRIMER; SW HEAVY DUTY BLOCK FILLER; 2 COAT FINISH AS SPECIFIED | ROGER HALL, SHERWIN WILLIAMS; ROGER.HALL@SHERWIN.COM |
| RBA RUBBER BASE | | | | | | | | |
| RBA-1 | RESIDENT CORRIDOR - 2ND -15TH FLOOR & BASEMENT | JOHNSONITE | REVEAL BASE | COTTON | N/A | 6'H | INSTALL WITH FIELD PAINT PT-5 | LAURIE BAATZ, JOHNSONITE; LAURIE.BAAZ@TARKETT.COM |
| RBA-2 | RESIDENT CORRIDOR - 2ND -15TH FLOOR | JOHNSONITE | REVEAL BASE | TBD | N/A | 6'H | INSTALL WITH ACCENT PAINT PT-7 | LAURIE BAATZ, JOHNSONITE; LAURIE.BAAZ@TARKETT.COM |
| RBA-3 | UTILITY SPACES | JOHNSONITE | TRADITIONAL COVE BASE | COTTON | N/A | 4'H | INSTALL IN UTILITY SPACES & BEHIND LAM-1A | LAURIE BAATZ, JOHNSONITE; LAURIE.BAAZ@TARKETT.COM |
| RBA-4 | RESIDENT CORRIDOR - 2ND -15TH FLOOR | JOHNSONITE | REVEAL BASE | WHITE | N/A | 6'H | INSTALL WITH FIELD PAINT PT-3 | LAURIE BAATZ, JOHNSONITE; LAURIE.BAAZ@TARKETT.COM |
| RF RESILIENT FLOORING | | | | | | | | |
| RF-1 | FITNESS CENTER / REHAB COMMON AREA FLOORING | ECORE | ECOFIT | MOONROCK 812 | N/A | 24" X 24" TILE | | CLAYTON MOORE, ECORE INTL; CCMOORE@ECOREINTL.COM |
| RF-2 (ALT. TO SC-1) | | PATCRAFT | ADMIX 1347V | SAND DOLLAR 00510 | N/A | 36" X 36" TILE | DRY BACK GLUE DOWN INSTALLATION WITH SQUARED EDGE; PRICE OUT AS ALTERNATE TO SC-1 IN COMMON AREA | BETSY HAMLIN; BETSY.HAMLIN@PATCRAFT.COM |
| RF-3 (ALT. FOR ACC. UNITS) | ACCESSIBLE UNITS - GENERAL FLOORING | CHILEWICH | BOUCLE 400606-033M | NATURAL | N/A | 72"W ROLL | INSTALL WITH BIOFELT BACKING | MELANIE PROULX, INDIGO SPEC GROUP; MPROULX@INDIGOSPECGROUP.COM |
| SC SEALED CONCRETE | | | | | | | | |
| SC-1 | COMMON AREA FLOORING | DECOCRETE | AMOUR DYE | BUFF | MATTE, SLIP RESISTANT, SCRATCH RESISTANT | N/A | GROUND CONCRETE TO REMOVE GLUE AND PREP FOR COLOR. OVER COLORED DYE. ADD ONE COAT ROCKHARD URETHANE TOP COAT FOR GLOSS FINISH. ADD THIN COAT OF ROCK HARD WITH ALUMINUM OXIDE FOR SLIP RESISTANCE. | JOE GINGERICH, JOE@DECO-CRETESUPPLY.COM; DECOCRETE |
| SHF SHELF | | | | | | | | |
| SHF-1 | COMMUNITY ROOM KITCHENETTE | - | FLOATING SHELF | PAINTED PT-9 | SATIN | SEE A6.13 | | |
| SS SOLID SURFACE | | | | | | | | |
| SS-1 | UNIT KITCHEN | CORIAN | 25"D COUNTERTOP | STONIQUE | N/A | SEE UNIT PLANS A6.01-A6.03 | INCLUDE 4"H BUTTED BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS; SILICONE SEALANT TO MATCH COUNTERTOP; RADIUS EDGE | KAREN CAHILL, KCAHILL@PARKSITE.COM |
| SS-2 | UNIT BATHROOM | CORIAN | INTEGRAL SINK, OVAL | GLACIER WHITE | N/A | SEE UNIT PLANS A6.01-A6.03 | INCLUDE 4"H BUTTED BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS; SILICONE SEALANT TO MATCH COUNTERTOP; RADIUS EDGE | KAREN CAHILL, KCAHILL@PARKSITE.COM |
| SS-3 | COMMON AREA - GROUND FLOOR & RESTROOMS | CORIAN | 25"D COUNTERTOP | GLACIER WHITE | N/A | 3CM | INCLUDE 4"H BUTTED BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS; SILICONE SEALANT TO MATCH COUNTERTOP; RADIUS EDGE | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| SS-4 | ELEVATOR LOBBIES 2ND-15TH FLOORS | CORIAN | 25"D COUNTERTOP | DEEP CLOUD | N/A | 3CM | MITER EDGE TO CREATE 6"D COUNTERTOP; INCLUDE 4"H BUTTED BACKSPLASH AND SIDESPLASH AT ADJACENT WALLS; SILICONE SEALANT TO MATCH COUNTERTOP; RADIUS EDGE | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| STN STONE | | | | | | | | |
| STN-1 | COMMUNITY ROOM - FIREPLACE WALL | REALSTONE SYSTEMS | LEDGESTONE PANEL WSP-CC-L | CITY CREME | HONED | 6"x24" | SEE A6.13 FOR INTERIOR ELEVATION; INCLUDE CITY CREME LEDGESTONE EDGE TRIM | JESSICA GESSNER, JGESSNER@THOMASBRICK.COM |
| TIL TILE | | | | | | | | |
| TIL-1 | UNIT BATHROOM - FLOOR TILE | DALTILE | PRIME | WHITE KC01 | MATTE | 2' X 2' MOSAIC (12" X 24" SHEET) | DOT MOUNTED | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TIL-1A | UNIT BATHROOM - COVE BASE | DALTILE | PRIME COVE BASE P43C9 | WHITE KC01 | MATTE | 3" X 12" | | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TIL-2 | COMMON AREA GROUND FLOOR - FLOOR TILE | DALTILE | STEPWISE - CALCARY | LEGACY CG40 | MATTE | 12" X 24" | INSTALLATION: STACKED | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TIL-2A | COMMON AREA GROUND FLOOR - WALL BASE | DALTILE | CALGARY COVE BASE P63C9 | LEGACY CG40 | MATTE | 6" X 24" | ALIGN WITH GROUT JOINTS WITH FLOOR TILE | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TIL-3 | ALL PUBLIC RESTROOMS - WALL TILE | DALTILE | COLOR WHEEL - LINEAR | ARCTIC WHITE 0190 | SEMI-GLOSS | 2' X 8" | ALIGN WITH WIDTH OF COUNTERTOP; TRIM EDGES WITH SCHLUTER. RENO TRANSITION STRIP, CHROME FINISH; INSTALLATION: VERTICAL STACKED | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TIL-4 | UNIT KITCHENS - BACKSPLASH | DALTILE | COLOR WHEEL - LINEAR | ARCTIC WHITE 0190 | SEMI-GLOSS | 2' X 8" | INSTALLATION: HORIZONTAL STACKED; TRIM EXPOSED EDGES WITH SCHLUTER RENO TRANSITION STRIP, CHROME FINISH | ERIN CLARK, ERIN.CLARK@DAL TILE.COM |
| TMB TAMBOUR | | | | | | | | |
| TMB-1 | ELEVATOR LOBBIES - ALL FLOORS | CUSTOM CUT FROM 1" X 2" | WOOD SLAT ACCENT WALL WITH 1" WOOD CAP | WHITE OAK - STAINED TO MATCH LAM-1A | STAINED | 1-1/2" WIDE X 3/4" THICKNESS NOMINAL | LEAVE 1/4" LEAVE 1/4" SPACE BETWEEN FLOOR AND BOTTOM OF SLAT | ROBERT CUCKLER, ROBERT@TOPCRAFTCASEWORK.COM; TOP CRAFT |
| WB WINDOW BLINDS | | | | | | | | |
| WB-1 | UNITS - WINDOWS | SWF CONTRACT | OP DOWN VINYL BLINDS | SATIN WHITE | N/A | 2" | INSTALL AT ALL UNIT WINDOWS | NATASHA CATLIN, KMA ASSOCIATES; NCATLIN@KMA.BZ |
| WB-2 | COMMON AREA - WINDOWS | SWF CONTRACT | SOLAR MOTORIZED SHADE CLOTH - COMPASS 3% OPEN Y300 | STONE/WHITE C2032 | N/A | 126"W | INSTALL AT ALL COMMON AREA WINDOWS; 78% PVC / 22% POLYESTER | NATASHA CATLIN, KMA ASSOCIATES; NCATLIN@KMA.BZ |
| WBA WOOD BASE | | | | | | | | |
| WBA-1 | COMMON AREA - GROUND FLOOR | METRIE | PRIMED MDF BASEBOARD - 1496366 | PRIMED | PAINTED PT-8 | 1/2" X 5-1/2" X 16' | | |
| WBA-2 | UNITS | METRIE | PRIMED MDF BASEBOARD - 1521912 | PRIMED | PAINTED PT-2 | 1/2" X 4-1/4" X 16' | INSTALL WITH QUARTER ROUND | |
| WBA-3 | COMMON AREA - AT ACCENT WALL | METRIE | PRIMED MDF BASEBOARD - 1496366 | PRIMED | PAINTED PT-9 | 1/2" X 5-1/2" X 16' | | |
| WBA-4 | ELEVATOR LOBBIES - ALL FLOORS | TBD | TBD | STAINED | MATCH TMB-1 | 1/2" X 5-1/2" X 16' | | |
| WC WALLCOVERING | | | | | | | | |
| WC-1 | ELEVATOR LOBBIES 2ND-15TH FLOOR | KOROSEAL | DIGITAL COLLECTION - HERON SCENIQUE KDE-HRS-02 | DAWN | SILK SUBSTRATE DS0109 - VINYL | TBD - SEE A6.00 SERIES | CLASS A, ASTM E-84 | CHRISTINE MATHIES, KOROSEAL; CMATHIES@KOROSEAL.COM |
| WC-2 | COMMUNITY ROOM - BOOKCASE | KOROSEAL | DIGITAL COLLECTION - IN FULL VIEW KDE-NFV-02 | DAWN | SILK SUBSTRATE DS0109 - VINYL | TBD - SEE A6.00 SERIES | CLASS A, ASTM E-84 | CHRISTINE MATHIES, KOROSEAL; CMATHIES@KOROSEAL.COM |
| WC-3 | LEASING OFFICE & CONFERENCE ROOM - ACCENT WALL | KOROSEAL | INSIGHT 6322-41 | PURLESQUE | VINYL TYPE II | 52" - 54" ROLL WIDTH | CLASS A - ASTM-E84; RANDOM MATCH, REVERSE HANG; NO REPEAT; WOVEN BACKING | CHRISTINE MATHIES, KOROSEAL; CMATHIES@KOROSEAL.COM |
| WF WINDOW FILM | | | | | | | | |
| WF-1 (NOT USED) | | | | | | | | |
| WF-2 | WOMEN'S RESTROOM - EXISTING WINDOW | 3M | 3M™ FASARA™ SH2MLCRX | MILKY CRYSTAL | MATTE | 60" X 100", 2 MIL. | INSTALL ON INTERIOR SIDE OF WOMEN'S RESTROOM WINDOW; OR EQUIV. APPROVED BY ARCHITECT/DISIGNER | 3M, 1-866-499-8857 |



| REV | DATE | DESCRIPTION |
|-----|------------|-----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S - OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |
| | 2024.04.12 | ISSUED FOR ADDENDUM 1 |

Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

INTERIOR SCHEDULES
A7.01A

| UNIT & COMMON AREA LIGHTING SCHEDULE | | | | | | | |
|--------------------------------------|--|--------------|---------------------------------------|------------------------------------|-------------|-----|---|
| KEY NO. | DESCRIPTION | MANUFACTURER | MODEL NO. | FINISH | COLOR TEMP. | CRI | COMMENTS |
| COMMON AREA | | | | | | | |
| LT-1 | 6" RECESSED DOWNLIGHT | ADVANTAGE | AIC6VOLEDES-U-30-30K-W6060-ZDM | WHITE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-2 | 37" DIAMETER CHANDELIER | ALORA | ALONSO CH320837UBAR | URBAN BRONZE/ALABASTER | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-3 | 23" WALL SCONCE - ADA CERTIFIED | ALORA | WV348222 | URBAN BRONZE/ FROSTED RIBBED GLASS | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-4 | 24" W TAPE LIGHT - UNDER CABINET | TRACELITE | LUCB SERIES | N/A | 3000K | 90 | INSTALL UNDER UPPER CABINET; ENERGY-STAR |
| LT-5 | 17" FLUSH MOUNT | KUZCO | BRUNSWICK FM43518-WH | WHITE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-6 | ALONSO 8" WALL SCONCE | ALORA | DAHLIA WV346006UBAR | URBAN BRONZE/ALABASTER | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE; ADA CERTIFIED |
| LT-7 | 24" VANITY WALL SCONCE | ALORA | ALONSO WV320323UB | URBAN BRONZE/OPAL GLASS | 3000K | 90 | DIMMABLE, CENTER ON LAVATORY & MIRROR |
| LT-8 | 24" X 48" RECESSED PANEL | LEDALITE | SHINE 3324D1STL9030- | WHITE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-9 | LINEAR SUSPENDED | ALW | SUPERPLANE 2.5 SP2.5S-S8-MED-90-3000K | SATIN WHITE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE; 8' LENGTH |
| LT-10 | 12" X 48" UTILITY LIGHT | DAYBRITE | NWL WRAPAROUND | WHITE | 3000K | 90 | ENERGY-STAR LISTED |
| LT-11 | EXHAUST FAN | BROAN | QTXE110150DC | WHITE | N/A | N/A | ENERGY-STAR LISTED |
| LT-12 | 2" MINI RECESSED DOWNLIGHT | CSL | ACROBAT A2 - ROUND/STANDARD TRIM | WHITIE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-13 | 24" LINEAR RECESSED LIGHT - UNIT ENTRY | PMC LIGHTING | NELIO ES14 | WHITE | 3000K | 90 | INSTALL IN T-GRID; DIMMABLE |
| LT-14 | 11" SURFACE MOUNT - EXTERIOR RATED | KUZCO | BAILEY EC44511 | BLACK | 3000K | 90 | WET RATED; INSTALLED AT EXTERIOR |

| UNIT & COMMON AREA ACCESSORY SCHEDULE | | | | | | |
|---------------------------------------|---|--------------|--------------------------------------|---------------------|--------------------------|---|
| KEY | DESCRIPTION | MANUFACTURER | COLLECTION | MODEL # | FINISH | COMMENTS |
| COMMON AREA | | | | | | |
| AC-1 | RECESSED MAILBOX | FLORENCE | 4C RECESSED MOUNTED MAILBOX | 4C12D-20 | WHITE | |
| AC-2 | MOUNTED OVERHEAD-BRACED RESTROOM PRIVACY PARTITIONS | BRADLEY | PHENOLIC PRIVACY PARTITIONS | SERIES 400 SENTINEL | SLATE GRAY | ADA COMPLIANT |
| AC-3 | WALL-HUNG URINAL SCREEN WITH STIRRUP BRACKETS | BRADLEY | PHENOLIC PRIVACY PARTITIONS | N/A | SLATE GRAY | |
| AC-4 | DECK-MOUNTED SENSOR SOAP DISPENSER | MOEN | M-POWER ELECTRONIC SOAP DISPENSER | 8558 | CHROME | ADA COMPLIANT |
| AC-5 | RECESSED WASTE RECEPTACLE/HAND TOWEL DISPENSER | BOBRICK | TRIMLINE SERIES | B-380349 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| AC-6 | SURFACE MOUNTED TOILET TISSUE DISPENSER & UTILITY SHELF | BOBRICK | CUBICLE COLLECTION | B-540 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| AC-7 | SURFACE MOUNTED SANITARY NAPKIN DISPOSAL | BOBRICK | TRIMLINE SERIES | B-35139 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS; WOMEN'S & UNISEX RESTROOM |
| AC-8 | WALL MIRROR 20" X 40" | MDC | SIMONE CAPSULE MIRROR | MHE8720 | POLISHED STAINLESS STEEL | INSTALL CENTER OF EACH LAVATORY & 40" A.F.F. MAX. TO BOTTOM OF REFLECTIVE SURFACE |
| AC-9 | SURFACE MOUNTED COUNTERTOP BRACKETS | RAKKS | SURFACE MOUNTED BRACKET | EH-1818 | UNFINISHED | INSTALLED AT COUNTERTOPS OVER 24"D AT AN EXISTING WALL |
| AC-10 | 72" ELECTRIC RECESSED FIREPLACE | SIMPLIFIRE | ALLUSION PLATINUM ELECTRIC FIREPLACE | 72 SF-ALLP72-BK | BLACK | 15 AMP, 120V/60 Hz, 5000 BTU |
| AC-11 | PACKAGE PARCEL | SMIOTA | STANDARD INTERIO RLOCKER | TBD | TBD | TBD |
| GB-18 | GRAB BAR 18" | BOBRICK | FINO | 9806X18 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| GB-36 | GRAB BAR 36" | BOBRICK | FINO | 9806X36 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| GB-48 | GRAB BAR 42" | BOBRICK | FINO | 9806X42 | STAINLESS STEEL | INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |

| KEY | DESCRIPTION | MANUFACTURER | MODEL # | DIMENSIONS | FINISH | COMMENTS | |
|--------------|---|--------------|-------------------------|------------|--------|----------|--|
| UNITS | | | | | | | |
| LT-A | 11" SURFACE MOUNT PUCK LIGHT | LUMENCIA | LL4350111-WH-30K | WHITE | 3000K | 90 | ENERGY-STAR LISTED, DIMMABLE |
| LT-B | 7" SURFACE MOUNT PUCK LIGHT - WET RATED | LUMENCIA | LL62-1710-7R-LED-5MCT-W | WHITE | 3000K | 90 | CENTER ON SHOWER / TUB; ENERGY-STAR LISTED, DIMMABLE |
| LT-C | 10" ISLAND PENDANT | CDS LIGHTING | PEARL-H-10-3CCCT-USV | WHITE | 3000K | 90 | CENTER ON ISLAND; INSTALL ONLY IN ANSI TYPE A UNITS |
| LT-D | 24"W VANITY WALL SCONCE | KUZCO | LATITUDE VL47225-CH | CHROME | 3000K | 90 | CENTER ON VANITY & MIRROR; ENERGY-STAR, DIMMABLE |
| LT-E | BATHROOM EXHAUST FAN | BROAN | QTXE110150DC | WHITE | N/A | N/A | CENTER IN ROOM; ENERGY STAR |
| LT-F | 24" W TAPE LIGHT - OVER SINK | TRACELITE | LUCB SERIES | WHITE | 3000K | 90 | INSTALL UNDER UPPER CABINET; ENERGY-STAR |

| KEY | DESCRIPTION | MANUFACTURER | MODEL # | DIMENSIONS | FINISH | COMMENTS |
|--------------|--|----------------------|--|-------------|-------------------|--|
| UNITS | | | | | | |
| AC-A | 24" TOWEL BAR | CFG | SUMMIT | YB6324CH | CHROME | |
| AC-B | TOWEL RING | CFG | SUMMIT | YB6386CH | CHROME | |
| AC-C | TOILET PAPER HOLDER | CFG | SUMMIT | YB6309CH | CHROME | |
| AC-D | ROBE HOOK | CFG | SUMMIT | YB6303CH | CHROME | |
| AC-E1 | 30" X 45" MIRROR | KOHLER | ESSENTIAL | K-31365-CPL | CHROME | CENTER ON LAVATORY AND SCONCE; UNIT 1A |
| AC-E2 | 24" X 36" MIRROR | KOHLER | ESSENTIAL | K-31364-CPL | CHROME | CENTER ON LAVATORY AND SCONCE; UNIT 1B |
| AC-F | ADJUSTABLE SHOWER CURTAIN ROD | MOEN | LOW-PROFILE CURVED SHOWER ROD | CSR2145 | CHROME | 1" DIAMETER ROD; ADJUSTABLE FROM 5' TO 6' |
| AC-G | ADJUSTABLE CLOSET CURTAIN ROD | MOEN | TENSION ROD | TR1002CH | CHROME | 88" DIAMETER; ADJUSTABLE 44" TO 72" |
| AC-H | GRAB BAR 18" | MOEN | ALIGN 18" DESIGNER GRAB BAR | YG0418CH | CHROME | SUPPORTS UP TO 500LBS; INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| AC-J | GRAB BAR 36" | MOEN | ALIGN 36" DESIGNER GRAB BAR | YG0436CH | CHROME | SUPPORTS UP TO 500LBS; INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| AC-K | GRAB BAR 42" | MOEN | ALIGN 42" DESIGNER GRAB BAR | YG0442CH | CHROME | SUPPORTS UP TO 500LBS; INSTALL PER ADA INSTALLATION GUIDANCE INSTRUCTIONS |
| AC-L | ADJUSTABLE 66"-120" DOUBLE CURTAIN ROD | BETTER HOME FASHIONS | METAL DOUBLCURTAIN ROD WITH CYLINDER FINIALS | N/A | SILVER | INSTALL AT EXISTING WINDOWS, INCLUDE (3) BRACKETS |
| AC-M | SURFACE MOUNTED MEDICINE CABINET | KOHLER | VEDERA | K-99000-NA | ANODIZED ALUMINUM | ADA UNIT ONLY; INSTALL WITH KOHLER MIRROR KIT WHEN SURFACE MOUNTED |
| AC-N | PHENOLIC ADA SHOWER SEAT WITH LEGS | BOBRICK | REVERSIBLE SEAT WITH SWING DOWN LEGS | B-51815 | WHITE | ADA COMPLIANT; SUPPORTS UP TO 360 LBS.; 17"-19" MAX. SEAT HEIGHT; OR OTHER APPROVED BY ARCHITECT |

| KEY | DESCRIPTION | MANUFACTURER | MODEL # | DIMENSIONS | FINISH | COMMENTS |
|--------------------|---|---------------|------------|------------------------------------|-----------------|---|
| COMMON AREA | | | | | | |
| AP-1 | 24" BEVERAGE COOLER | SUMMIT | AL57G | H: 32", W: 23.63", D: 22.63" | STAINLESS STEEL | ADA COMPLIANT |
| AP-2 | 24" DISHWASHER | FRIGIDAIRE | FFB2D240US | H: 32 2/8", W: 24" | STAINLESS STEEL | ADA COMPLIANT; ENERGY STAR |
| UNITS | | | | | | |
| AP-A | 24" W TOP FREEZER APARTMENT-SIZE REFRIGERATOR | FRIGIDAIRE | FFET1222UV | H: 59 7/8", W: 23 3/4", D: 28 3/4" | STAINLESS STEEL | ADA COMPLIANT; ENERGY-STAR |
| AP-B | NOT USED | - | - | - | - | - |
| AP-C | 30" ELECTRIC RANGE | FRIGIDAIRE | FCRE3062AS | H: 46 3/4", W: 30", D: 28 1/2" | STAINLESS STEEL | |
| AP-C1 | 30" ADA ELECTRIC RANGE WITH FRONT CONTROLS | FRIGIDAIRE | FCFE3062AS | H: 35 3/8", W: 30", D: 28 1/2" | STAINLESS STEEL | ADA COMPLIANT; INSTALL AT UNIT 1C ONLY |
| AP-D | 30" VENTLESS RANGE HOOD | FRIGIDAIRE | FCVW3052AS | H: 4 15/16", W: 30", D: 19 3/4" | STAINLESS STEEL | |
| AP-D1 | 30" ADA VENTLESS RANGE HOOD | GE APPLIANCES | JVX5305SJS | H: 5 1/2", W: 30", D: 20"D | STAINLESS STEEL | ADA COMPLIANT; INSTALL AT UNIT 1C ONLY. INCLUDE SWITCH AT WORKSTATION APRON |

| UNIT & COMMON AREA PLUMBING SCHEDULE | | | | | | |
|--------------------------------------|----------------|---|--------------|---------------|-----------------|--|
| KEY | LOCATION | DESCRIPTION | MANUFACTURER | MODEL # | FINISH | COMMENTS |
| COMMON AREA | | | | | | |
| PL-1 | | NOT USED | - | - | - | - |
| PL-1 | | NOT USED | - | - | - | - |
| PL-2 | | NOT USED | - | - | - | - |
| PL-1 | | NOT USED | - | - | - | - |
| PL-2 | ALL RESTROOMS | ERIE WALL-MOUNT, REAR OUTLET, ELONGATED FRONT TOILET | MANSFIELD | 1301 | WHITE | ADA COMPLIANT; INCLUDE 1311295.000 ELONGATED SEAT COVER |
| PL-2 | ALL RESTROOMS | ROYAL MANUAL WATERCLOSET FLUSHOMETER | SLOAN | 111-1.28 | CHROME | ADA COMPLIANT; WATERSENSE (OR EQUIVALENT APPROVED BY ARCHITECT/DESIGNER) |
| PL-3 | MEN'S RESTROOM | CASCADE WALL-HUNG URINAL | MANSFIELD | 410HUE | WHITE | ADA COMPLIANT |
| PL-3 | MEN'S RESTROOM | ROYAL MANUAL URINAL FLUSHOMETER | SLOAN | 186-0.5 | CHROME | ADA COMPLIANT; WATERSENSE (OR EQUIVALENT APPROVED BY ARCHITECT/DESIGNER) |
| PL-4 | ALL RESTROOMS | CAXTON 17" OVAL UNDERMOUNT SINK | KOHLER | K-2209-0 | WHITE | ADA COMPLIANT |
| PL-4 | ALL RESTROOMS | ALIGN ONE-HANDLE HIGH ARC BATHROOM FAUCET | MOEN | 6190 | CHROME | ADA COMPLIANT |
| PL-5 | COMMUNITY ROOM | THE PREP SERIES 24" UNDERMOUNT SINGLE-BOWL SINK | MOEN | GS20167B | STAINLESS STEEL | ADA COMPLIANT; MIN. CAB SIZE 27" |
| PL-5 | COMMUNITY ROOM | ALIGN SINGLE-HANDLE HIGH ARC PULLDOWN BAR FAUCET | MOEN | 5965 | CHROME | ADA COMPLIANT |
| PL-6 | BASEMENT | BOTTLE FILLING & VERSATILE BI-LEVEL ADA DRINKING FOUNTAIN | ELKAY | LZSTL8WSSP-PF | STAINLESS STEEL | |

| ROOM FINISH SCHEDULE - COMMON AREA | | | | | | | | | | |
|------------------------------------|-----------|-------|-----------|-----------|-------|-------------|----------|---------|----------|--|
| ROOM NO. | ROOM NAME | FLOOR | WALL BASE | DOOR/TRIM | WALLS | ACCENT WALL | CASEWORK | CEILING | COMMENTS | |

| ROOM FINISH SCHEDULE - TYPICAL UNITS | | | | | | | | |
|--------------------------------------|-------|-----------|-----------|-------|-------------|----------|---------|----------|
| ROOM NAME | FLOOR | WALL BASE | DOOR/TRIM | WALLS | ACCENT WALL | CASEWORK | CEILING | COMMENTS |

| | | | | | | | | | | |
|----------------------|------------------------------|-------|--------|------------|--------------|----------------------|---------------------|--------------------------|--|--|
| 0-BASEMENT | | | | | | | | | | |
| 000 | CORRIDOR | SC-1 | RBA-1 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 001 | ELEVATOR LOBBY | SC-1 | RBA-1 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 002 | ELECTRICAL | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 003 | TRANSFORMER | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 004 | FIRE PUMP / WATER HEATERS | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 005 | CUSTODIAN | SC-1 | RBA-3 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 006 | STORAGE | SC-1 | RBA-3 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 007 | FITNESS / REHAB | RF-1 | RBA-1 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 008 | GENDER NEUTRAL RESTROOM | TIL-2 | TIL-2A | PT-8 | PT-3 / PT-14 | TIL-2 / TIL-3 | SS-3 / LAM-2 | ACT-1 | REFER TO A6.16 ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS | |
| 009 | MAINTENANCE GARAGE | SC-1 | RBA-3 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 010 | ENTRY | SC-1 | RBA-1 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 011 | STORAGE | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 1-FIRST FLOOR | | | | | | | | | | |
| 100 | CORRIDOR | TIL-2 | TIL-2A | PT-8 | PT-5 | TMB-1 | LAM-1A / LAM-1B | ACT-1 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 101 | VESTIBULE | TIL-2 | TIL-2A | STOREFRONT | PT-5 | N/A | LAM-1A | ACT-1 | SEE A6.15 | |
| 102A | OFFICE | SC-1 | WBA-1 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |
| 102B | OFFICE | SC-1 | WBA-1 | PT-8 | PT-5 / PT-11 | WC-3 | N/A | ACT-1 | | |
| 103 | OPEN OFFICE | SC-1 | WBA-1 | PT-8 | PT-5 | N/A | SS-3/CAB-1 | ACT-1 | | |
| 104 | STAFF RESTROOM | TIL-2 | TIL-2A | PT-8 | PT-14 | TIL-2 / TIL-3 | SS-3 / LAM-2 | ACT-1 | REFER TO A6.16 ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS | |
| 105 | STORAGE CLOSET | SC-1 | RBA-3 | PT-8 | PT-5 | N/A | N/A | ACT-1 | | |
| 106 | IT CLOSET | SC-1 | RBA-3 | PT-8 | PT-5 | N/A | N/A | ACT-1 | | |
| 107 | OFFICE | SC-1 | WBA-1 | PT-8 | PT-5 / PT-11 | WC-3 | N/A | ACT-1 | | |
| 108 | OFFICE | SC-1 | WBA-1 | PT-8 | PT-5 / PT-11 | WC-3 | N/A | ACT-1 | | |
| 109 | UTILITY | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 110 | COMMUNITY ROOM | TIL-2 | TIL-2A | PT-8 | PT-5 / PT-11 | WC-2 / WC-3 / STN-1 | SS-3 / CAB-2 / PT-9 | ACT-1 / ACS-1; SEE A5.02 | AC-10 ELECTRIC FIREPLACE INSERT; REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 111 | WOMEN'S RESTROOM | TIL-2 | TIL-2A | PT-8 | PT-14 | TIL-2 / TIL-3 / WF-2 | SS-3 / LAM-2 | ACT-1 | REFER TO A6.16 ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS | |
| 112 | MEN'S RESTROOM | TIL-2 | TIL-2A | PT-8 | PT-14 | TIL-2 / TIL-3 | SS-3 / LAM-2 | ACT-1 | REFER TO A6.16 ENLARGED RESTROOM PLANS & INTERIOR ELEVATIONS | |
| 113 | MAILROOM | TIL-2 | TIL-2A | STOREFRONT | PT-5 / PT-11 | N/A | LAM-1A / LAM-1B | ACT-1 | AC-11 PACKAGE PARCELS; REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 114 | CONFERENCE / SOCIAL SERVICES | CPT-1 | WBA-1 | PT-8 | PT-5 | WC-3 | N/A | ACT-1 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 115 | CUSTODIAN | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 116 | FIRE COMMAND | SC-1 | RBA-3 | PT-8 | PT-5 | N/A | N/A | ACT-1 | | |
| 117 | ELEVATOR LOBBY | TIL-2 | TIL-2A | N/A | PT-5 | TMB-1 | LAM-1A / LAM-1B | ACS-1; SEE A5.01 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 118 | VENDING | TIL-2 | TIL-2A | N/A | PT-5 / PT-11 | N/A | N/A | ACT-1 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 119 | FURNITURE CLOSET | SC-1 | RBA-3 | PT-8 | PT-5 / PT-11 | N/A | N/A | ACT-1 | | |

| | | | | | | | | | | |
|-------------------------|----------------|--------|-----------------------|-------------------------|-------|----------------------|-----------------------|------------------|---|--|
| 2-2ND-15TH FLOOR | | | | | | | | | | |
| 200-1500 | CORRIDOR | SC-1 | RBA-1 / RBA-2 / RBA-4 | PT-8 / PT-10 UNIT ENTRY | PT-5 | PT-7 / PT-3 / LAM-1B | LAM-1A / LAM-1B | ACT-1 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 205-1505 | SEATING | SC-1 | RBA-1 | STOREFRONT | E.T.R | LAM-1 | FAB-1 | ACT-1 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 206-1506 | TERRACE | E.T.R. | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 211-1511 | ELEVATOR LOBBY | SC-1 | RBA-1 | PT-8 | PT-5 | WC-2 | SS-4 / FAB-1 / LAM-1A | ACS-1; SEE A5.03 | REFER TO A6.00 SERIES FOR FINISH PLAN & INTERIOR ELEVATIONS | |
| 212-1512 | LAUNDRY | SC-1 | RBA-1 | PT-8 | PT-11 | PT-12 | N/A | ACT-1 | ADA LAUNDRY LOCATED ON ODD FLOORS ONLY. REFER TO A6.00 SERIES | |
| 213-1513 | UTILITY | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 214-1514 | CUSTODIAN | SC-1 | RBA-3 | PT-8 | PT-11 | N/A | N/A | ACT-1 | | |
| 3-PENTHOUSE | | | | | | | | | | |
| P1 | PENTHOUSE | E.T.R. | RBA-3 | PT-8 | PT-11 | N/A | N/A | N/A | | |

| ROOM FINISH SCHEDULE - TYPICAL UNITS | | | | | | | | | | |
|--------------------------------------|---------------|----------------|-----------|-------|--|---|---------|--|--|--|
| ROOM NAME | FLOOR | WALL BASE | DOOR/TRIM | WALLS | ACCENT WALL | CASEWORK | CEILING | COMMENTS | | |
| UNIT 1A | LVT-1 / TIL-1 | WBA-2 / TIL-1A | PT-2 | PT-3 | PT-4 (LIVING ROOM - SEE A6.01); TIL-4 KITCHEN BACKSPLASH | CAB-1 & SS-1 (KITCHEN), CAB-1 & SS-2 (BATHROOM) | PT-1 | TIL-1/TIL-1A INSTALLED IN BATHROOM ONLY; NEW AND EXISTING SOFFITS PAINTED PT-1 | | |
| UNIT 1B | LVT-1 / TIL-1 | WBA-2 / TIL-1A | PT-2 | PT-3 | PT-4 (LIVING ROOM - SEE A6.01); TIL-4 KITCHEN BACKSPLASH | CAB-1 & SS-1 (KITCHEN), CAB-1 & SS-2 (BATHROOM) | PT-1 | TIL-1/TIL-1A INSTALLED IN BATHROOM ONLY; NEW AND EXISTING SOFFITS PAINTED PT-1 | | |
| UNIT 1C | LVT-1 / TIL-1 | WBA-2 / TIL-1A | PT-2 | PT-3 | PT-4 (LIVING ROOM - SEE A6.01); TIL-4 KITCHEN BACKSPLASH | CAB-1 & SS-1 (KITCHEN), CAB-1 & SS-2 (BATHROOM) | PT-1 | TIL-1/TIL-1A INSTALLED IN BATHROOM ONLY; NEW AND EXISTING SOFFITS PAINTED PT-1 | | |

| | | | | | | | | | | |
|------|----------------|--|-----------|----------|-----------------|--|---|---|---|--|
| PL-1 | | NOT USED | - | - | - | - | - | - | - | |
| PL-1 | | NOT USED | - | - | - | - | - | - | - | |
| PL-2 | ALL RESTROOMS | ERIE WALL-MOUNT, REAR OUTLET, ELONGATED FRONT TOILET | MANSFIELD | 1301 | WHITE | ADA COMPLIANT; INCLUDE 1311295.000 ELONGATED SEAT COVER | | | | |
| PL-2 | ALL RESTROOMS | ROYAL MANUAL WATERCLOSET FLUSHOMETER | SLOAN | 111-1.28 | CHROME | ADA COMPLIANT; WATERSENSE (OR EQUIVALENT APPROVED BY ARCHITECT/DESIGNER) | | | | |
| PL-3 | MEN'S RESTROOM | CASCADE WALL-HUNG URINAL | MANSFIELD | 410HUE | WHITE | ADA COMPLIANT | | | | |
| PL-3 | MEN'S RESTROOM | ROYAL MANUAL URINAL FLUSHOMETER | SLOAN | 186-0.5 | CHROME | ADA COMPLIANT; WATERSENSE (OR EQUIVALENT APPROVED BY ARCHITECT/DESIGNER) | | | | |
| PL-4 | ALL RESTROOMS | CAXTON 17" OVAL UNDERMOUNT SINK | KOHLER | K-2209-0 | WHITE | ADA COMPLIANT | | | | |
| PL-4 | ALL RESTROOMS | ALIGN ONE-HANDLE HIGH ARC BATHROOM FAUCET | MOEN | 6190 | CHROME | ADA COMPLIANT | | | | |
| PL-5 | COMMUNITY ROOM | THE PREP SERIES 24" UNDERMOUNT SINGLE-BOWL SINK | MOEN | GS20167B | STAINLESS STEEL | ADA COMPLIANT; MIN. CAB SIZE 27" | | | | |
| PL-5 | COMMUNITY ROOM | ALIGN SINGLE-HANDLE HIGH ARC PULLDOWN BAR FAUCET | MOEN | 5965 | CHROME | ADA COMPLI | | | | |

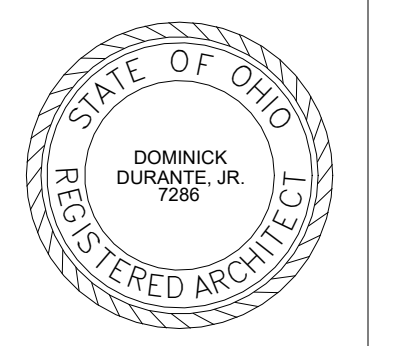
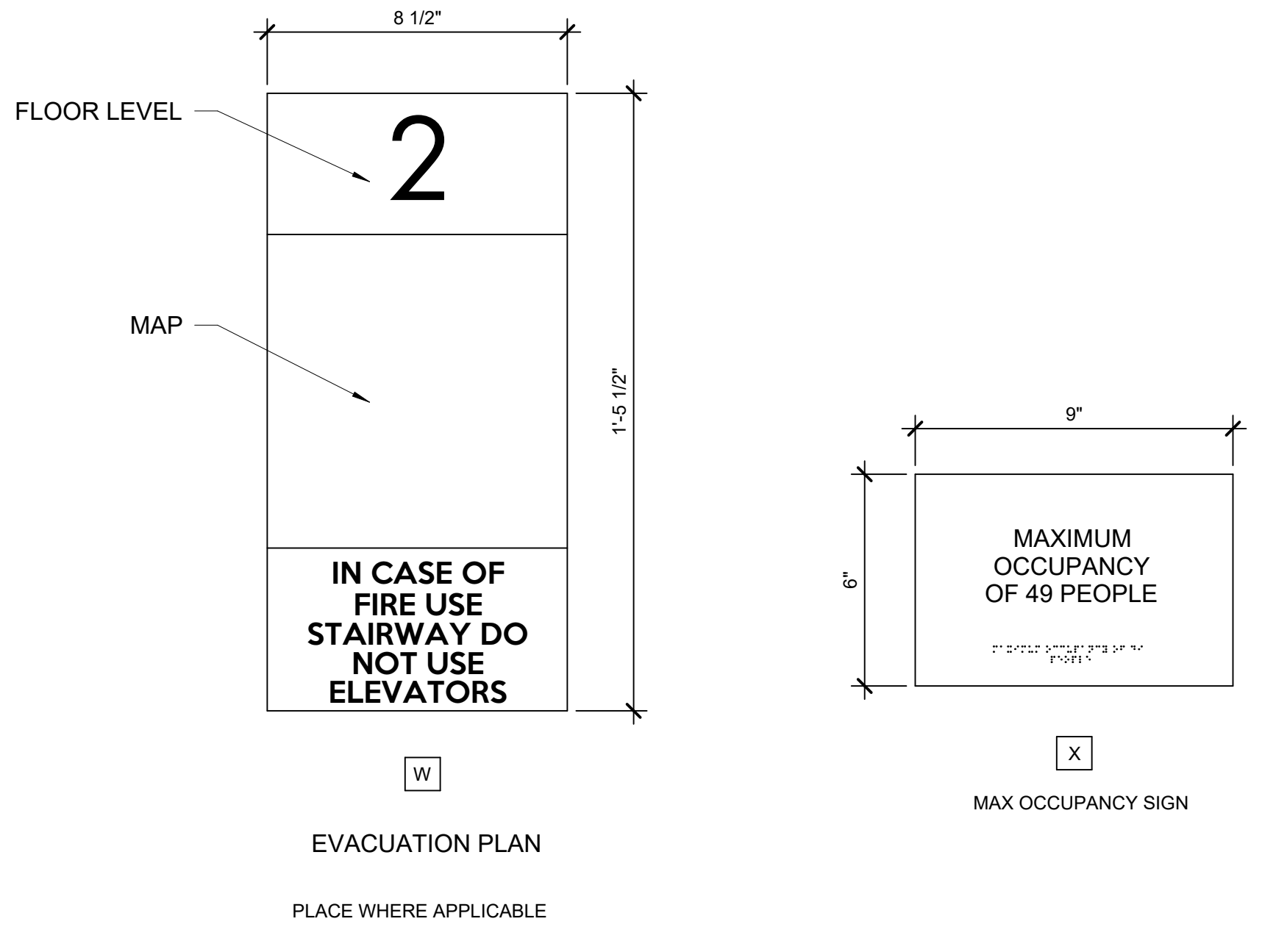
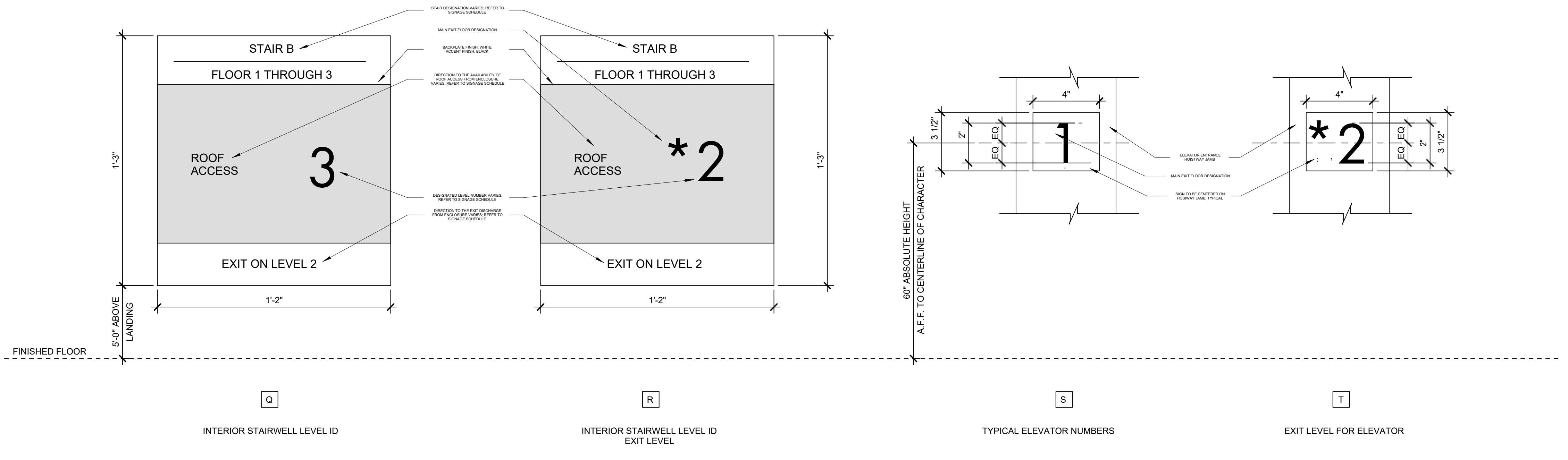
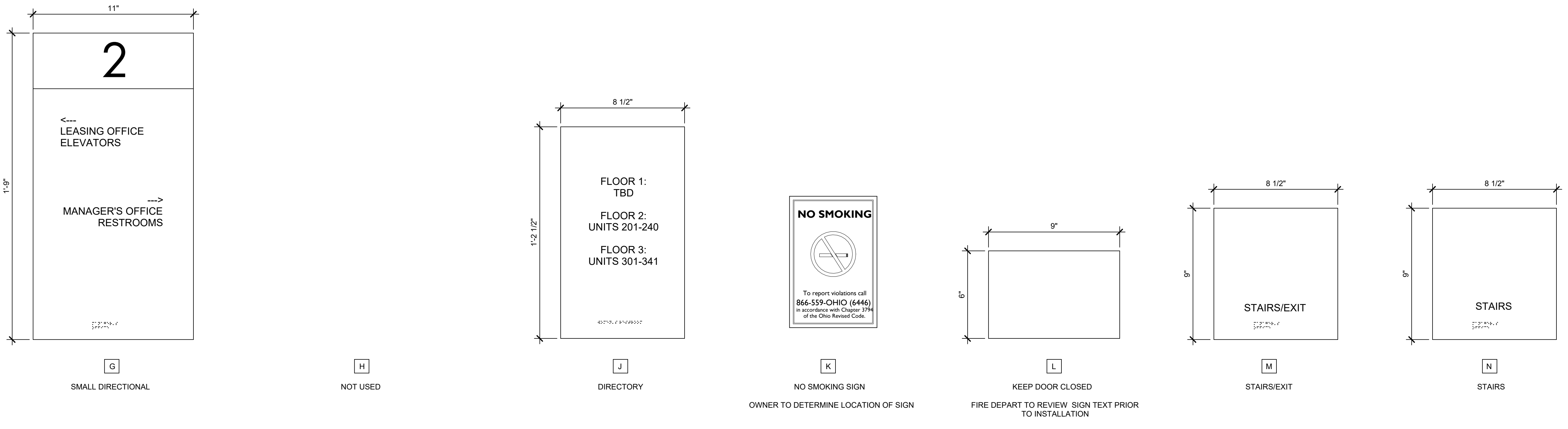
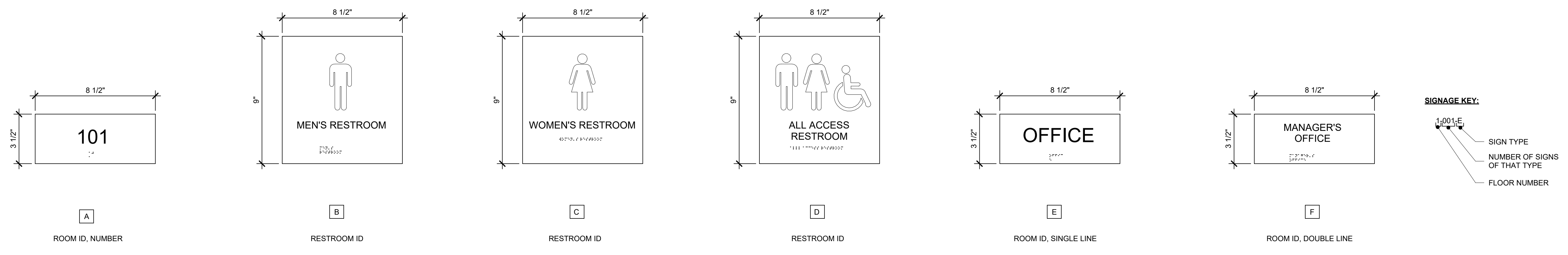
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| 2023.12.18 | | DRAFT DESIGN DEVELOPMENT |
| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80%- OHFA APP. |
| 2024.02.01 | | 80% CD'S- OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

GENERAL NOTES - INTERIOR SIGNAGE

- REFER TO G1.01 FOR SIGNAGE MOUNTING HEIGHTS.
- THE SIGN SHALL BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF DOOR, OR IF NO WALL SPACE IS AVAILABLE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL.
- ALL TEXT SHOULD BE RAISED 1/32"
- CONFIRM QUANTITY AND LOCATION OF FIRE EVACUATION MAPS WITH FIRE MARSHAL.
- ALL SIGNAGE SHALL COMPLY WITH THE PROVISIONS SET FORTH IN THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). TOPS OF ALL SIGNS SHALL BE MOUNTED AT A HEIGHT BETWEEN 48 INCHES AND 60 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE DIRECTED BY OWNER, ARCHITECT, OR AUTHORITY HAVING JURISDICTION.
- FOR FURTHER INFORMATION CONTACT BLINK SIGNS.
- FINAL LABELING AND APARTMENT NUMBER DESIGNATIONS TO BE COORDINATED WITH PROPERTY OWNER FOR THEIR APPROVAL PRIOR TO ORDERING SIGNAGE.

SIGNAGE SPECIFICATION:

MANUFACTURER: TAKEFORM
SALES REP NAME: ROBYNN SPONG
EMAIL: ROBYNN.SPONG@KJ.COM
PHONE NUMBER: 216.401.7044
COLLECTION: FUSION 61
FINISH: STANDARD WOOD LAMINATE OUTERBANKS & SOLID TRANQUILITY C0302
TEXT: WHITE



DOMINICK DURANTE, JR.
LICENSE 07396
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

SIGNAGE DETAILS

A8.00

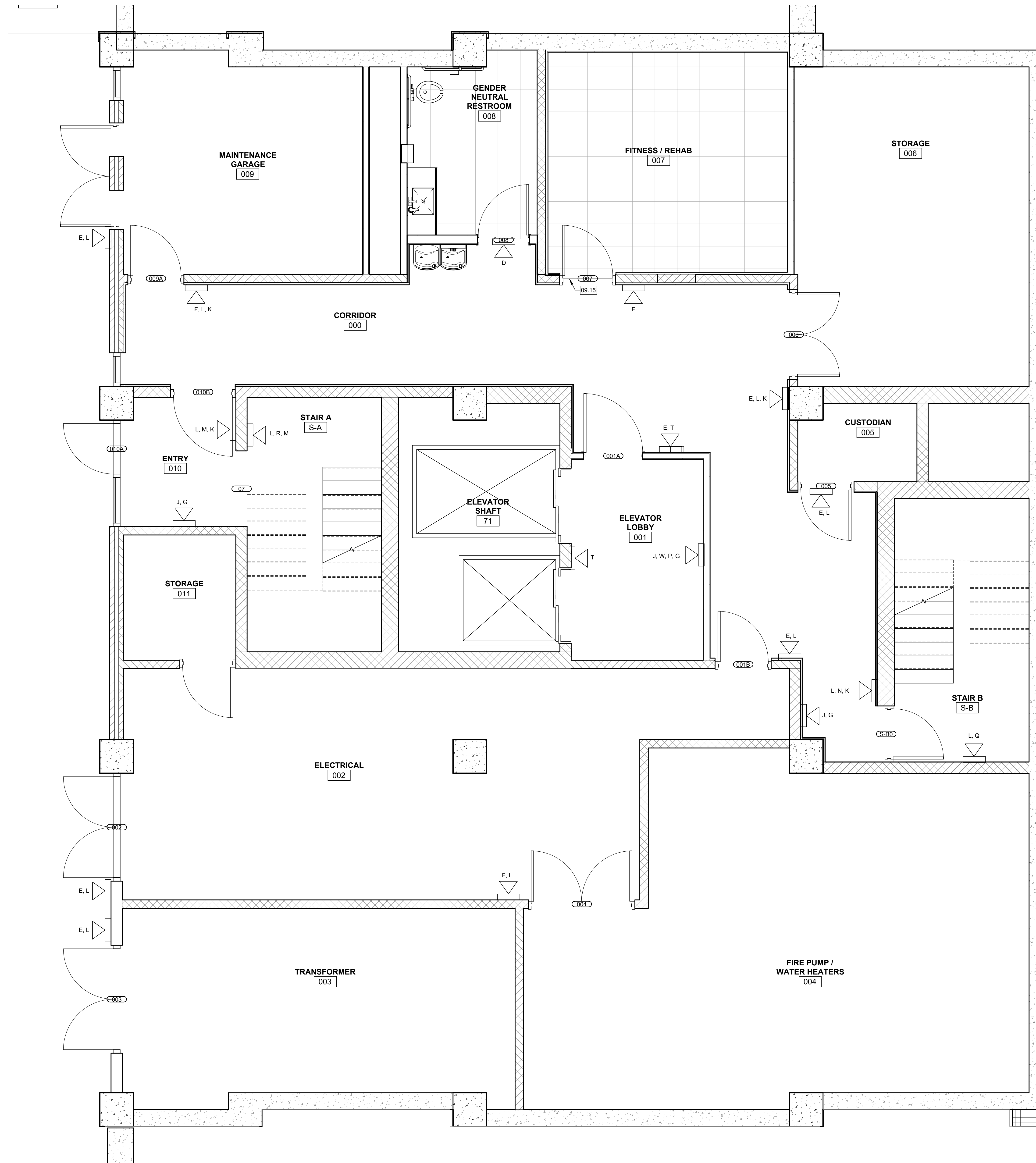
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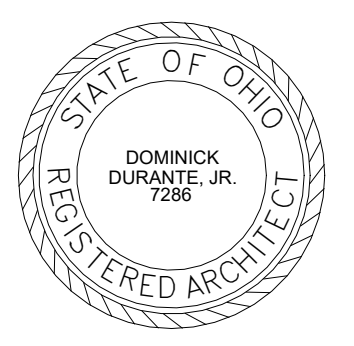
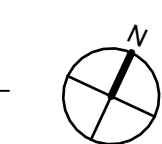
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1 OVERALL BASEMENT LEVEL SIGNAGE PLAN
A8.01 SCALE: 3/8" = 1'-0"



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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

BASEMENT SIGNAGE PLAN

A8.01

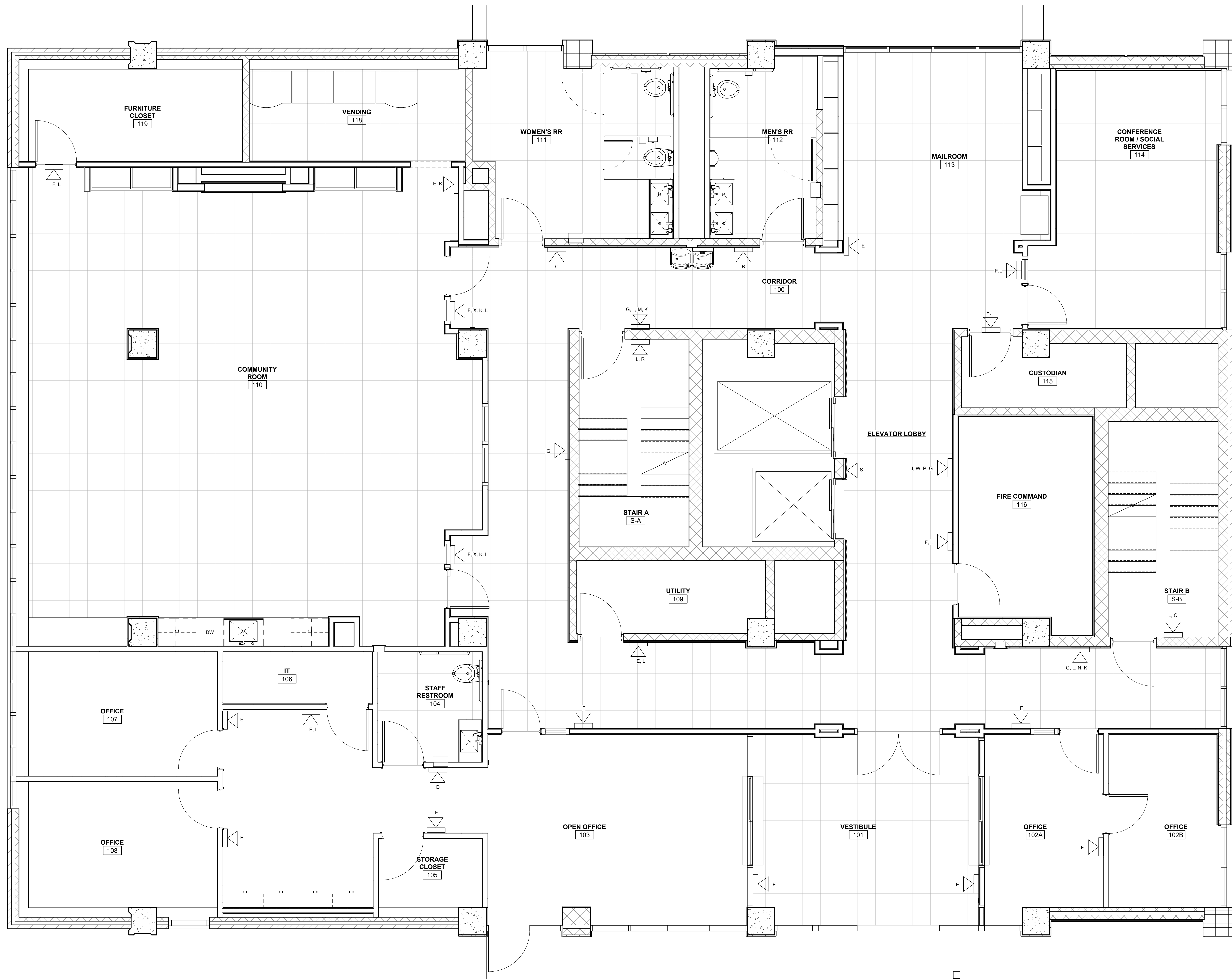
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| 2024.01.05 | | DESIGN DEVELOPMENT |
| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

GENERAL NOTES - INTERIOR SIGNAGE

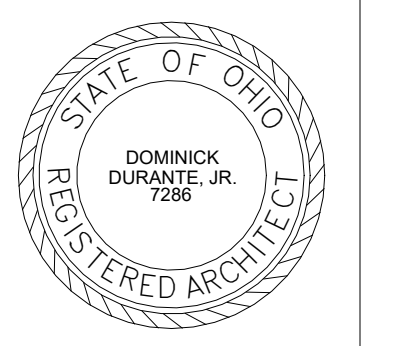
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1 GROUND FLOOR FINISH PLAN
A8.02 SCALE: 3/8" = 1'-0"



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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

FIRST FLOOR SIGNAGE PLAN

A8.02

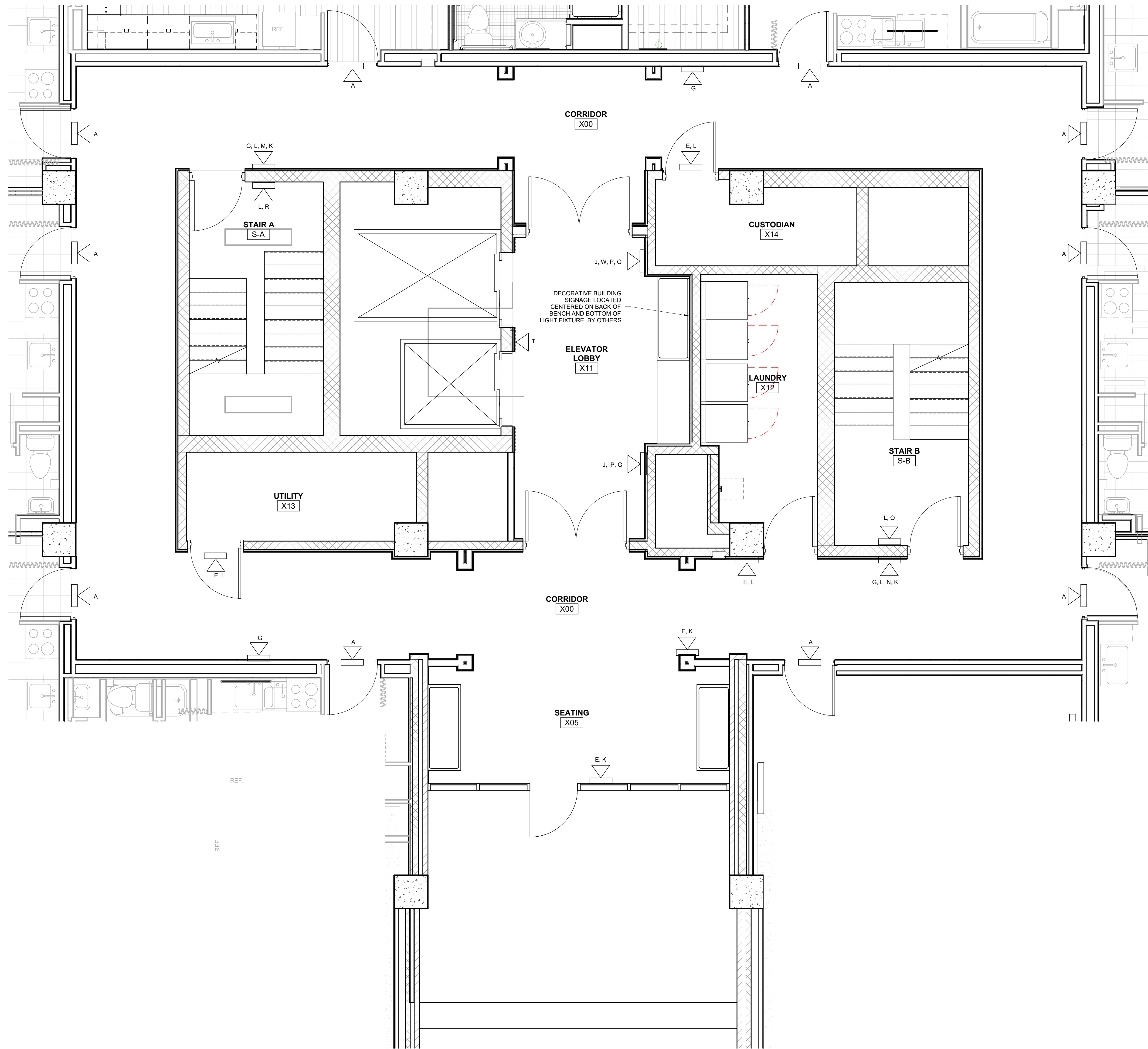
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| 2024.01.15 | | DRAFT 80% - OHFA APP. |
| 2024.02.01 | | 80% CD'S - OHFA APPLICATION |
| 2024.03.21 | | BIDDING AND PERMIT |

GENERAL NOTES - INTERIOR SIGNAGE

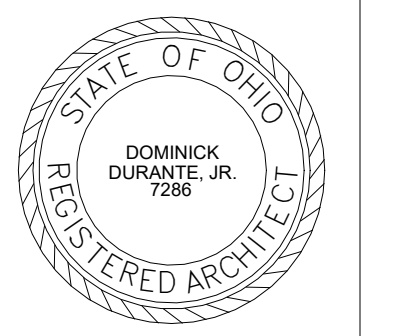
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TEXT: WHITE



1 OVERALL 2ND - 15TH LEVEL PLAN - PROPOSED
A8.03 SCALE: 3/8" = 1'-0"



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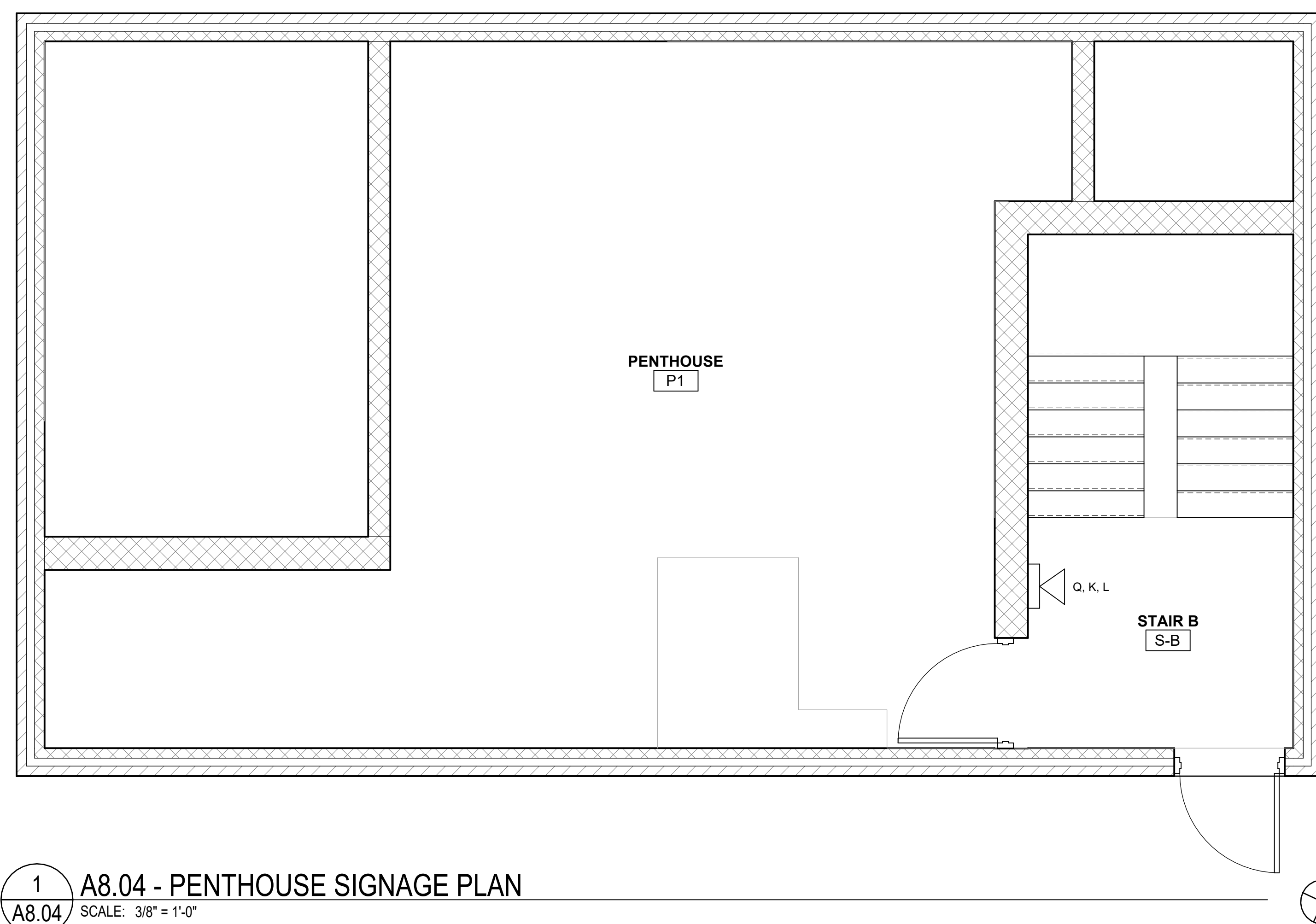
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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

2ND - 15TH FLOOR SIGNAGE PLAN

A8.03

| SIGNAGE SCHEDULE | | | |
|------------------------------|------------------|-------------|--|
| ROOM NAME | SIGN TYPE 1 | FLOOR LEVEL | NOTES |
| 2ND - 15TH | | | |
| CORRIDOR | G | 2ND - 15TH | |
| CUSTODIAN | E | 2ND - 15TH | E: "CUSTODIAN" |
| ELEVATOR LOBBY | J, S, W, P, G, T | 2ND - 15TH | |
| LAUNDRY | E | 2ND - 15TH | E: "LAUNDRY" |
| SEATING | E | 2ND - 15TH | E: "SEATING" |
| TERRACE | E, K | 2ND - 15TH | E: "TERRACE" |
| UTILITY | E, L | 2ND - 15TH | E: "UTILITY" |
| ALL | | | |
| STAIR A | G, L, R, M, K | ALL | SIGN R ON INSIDE OF STAIR NEXT TO LATCH SIDE OF DOOR |
| STAIR B | G, L, Q, N, K | ALL | SIGN R ON INSIDE OF STAIR NEXT TO LATCH SIDE OF DOOR |
| UNIT TYPE A | A | ALL | # AND BRAILLE; ROOM NUMBERS TO BE CONFIRMED BY ARCHITECT |
| UNIT TYPE B | A | ALL | # AND BRAILLE; ROOM NUMBERS TO BE CONFIRMED BY ARCHITECT |
| UNIT TYPE C | A | ALL | # AND BRAILLE; ROOM NUMBERS TO BE CONFIRMED BY ARCHITECT |
| BASEMENT | | | |
| CORRIDOR | G | BASEMENT | |
| CUSTODIAN | E, L | BASEMENT | E: "CUSTODIAN" |
| ELECTRICAL | E, L | BASEMENT | E: "CUSTODIAN" |
| ELEVATOR LOBBY | J, S, W, P, G, S | BASEMENT | |
| ENTRY | J, G | BASEMENT | |
| FIRE PUMP / WATER HEATERS | F, L | BASEMENT | F: "FIRE PUMP / WATER HEATER" |
| FITNESS / REHAB | F | BASEMENT | F: "FITNESS / REHAB" |
| MAINTENANCE GARAGE | F, L | BASEMENT | F: "MAINTENANCE GARAGE" |
| SERVICE GARAGE | F, L | BASEMENT | F: "SERVICE GARAGE" |
| STORAGE | E, L, K | BASEMENT | F: "STORAGE" |
| TRANSFORMER | E, L | BASEMENT | F: "TRANSFORMER" |
| UNISEX RESTROOM | D | BASEMENT | D: "ALL ACCESS RESTROOM" |
| FIRST FLOOR | | | |
| COMMUNITY ROOM | F, X, K, L | FIRST FLOOR | F: "COMMUNITY ROOM" |
| CONFERENCE / SOCIAL SERVICES | F, L | FIRST FLOOR | F: "CONFERENCE ROOM / SOCIAL SERVICES" |
| CORRIDOR | G | FIRST FLOOR | |
| ELEVATOR LOBBY | J, S, W, P, G | FIRST FLOOR | |
| FIRE COMMAND | F, L | FIRST FLOOR | F: "FIRE COMMAND" |
| FURNITURE STORAGE | F, L | FIRST FLOOR | F: "STORAGE" |
| IT | E | FIRST FLOOR | E: "IT" |
| MAILROOM | E | FIRST FLOOR | E: "MAILROOM" |
| MEN'S RESTROOM | B | FIRST FLOOR | F: "MEN'S RESTROOM" |
| OFFICE | E | FIRST FLOOR | F: "OFFICE" |
| OPEN OFFICE | F | FIRST FLOOR | F: "LEASING OFFICE" |
| STAFF RESTROOM | D | FIRST FLOOR | D: "ALL ACCESS RESTROOM" |
| STORAGE CLOSET | F | FIRST FLOOR | F: "STORAGE CLOSET" |
| UTILITY | E, L | FIRST FLOOR | E: "UTILITY" |
| VENDING | E | FIRST FLOOR | E: "VENDING" |
| VESTIBULE | E, J | FIRST FLOOR | SIGNAGE FOR LEASING OFFICE SERVICE WINDOW |
| WOMEN'S RESTROOM | C | FIRST FLOOR | "WOMEN'S RESTROOM" |
| PENTHOUSE | | | |
| PENTHOUSE | | PENTHOUSE | |



1 A8.04 - PENTHOUSE SIGNAGE PLAN
SCALE: 3/8" = 1'-0"



The Offices at the Agora
5000 Euclid Avenue, Suite 104
Cleveland, OH 44103
LDAarchitecture.com
216.932.1890

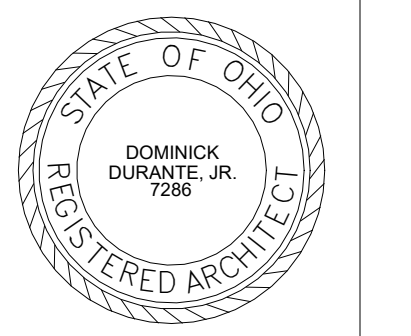
| REV | DATE | DESCRIPTION |
|-----|------------|----------------------------|
| | 2023.12.18 | DRAFT DESIGN DEVELOPMENT |
| | 2024.01.05 | DESIGN DEVELOPMENT |
| | 2024.01.15 | DRAFT 80%- OHFA APP. |
| | 2024.02.01 | 80% CD'S- OHFA APPLICATION |
| | 2024.03.21 | BIDDING AND PERMIT |

GENERAL NOTES - INTERIOR SIGNAGE

- REFER TO G1.01 FOR SIGNAGE MOUNTING HEIGHTS.
- THE SIGN SHALL BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF DOOR, OR IF NO WALL SPACE IS AVAILABLE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL.
- ALL TEXT SHOULD BE RAISED 1/32"
- CONFIRM QUANTITY AND LOCATION OF FIRE EVACUATION MAPS WITH FIRE MARSHAL.
- ALL SIGNAGE SHALL COMPLY WITH THE PROVISIONS SET FORTH IN THE AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). TOPS OF ALL SIGNS SHALL BE MOUNTED AT A HEIGHT BETWEEN 48 INCHES AND 60 INCHES ABOVE FINISH FLOOR UNLESS OTHERWISE DIRECTED BY OWNER, ARCHITECT, OR AUTHORITY HAVING JURISDICTION.
- FOR FURTHER INFORMATION CONTACT BLINK SIGNS.
- FINAL LABELING AND APARTMENT NUMBER DESIGNATIONS TO BE COORDINATED WITH PROPERTY OWNER FOR THEIR APPROVAL PRIOR TO ORDERING SIGNAGE.

SIGNAGE SPECIFICATION:

MANUFACTURER: TAKEFORM
SALES REP NAME: ROBYNN SPONG
EMAIL: ROBYNN.SPONG@KJ.COM
PHONE NUMBER: 216.401.7044
COLLECTION: FUSION 61
FINISH: STANDARD WOOD LAMINATE OUTERBANKS & SOLID TRANQUILITY C6902
TEXT: WHITE



DOMINICK DURANTE, JR.
LICENSE #7296
EXPIRATION 12/31/2025

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

PENTHOUSE SIGNAGNE & SIGNAGE DETAILS

A8.04



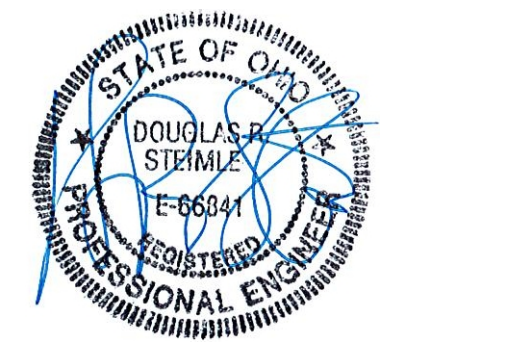
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216.932.1890

| REV | DATE | DESCRIPTION |
|-----|------------|--------------------|
| | 2024.03.21 | Bidding and Permit |
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| | | |
| | | |

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3-21-2024

STRUCTURAL NOTES

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GOVERNING CODE

2017 OHIO BUILDING CODE (REFERENCES IBC 2021 & ASCE 7-16)

DESIGN LOADS

- ROOF LOAD.
 - MINIMUM COMBINATION OF WIND LOAD, LIVE LOAD, RAIN LOAD, OR SNOW LOAD (P OR P_s)
 - ROOF MEMBRANE & INSULATION
 - SUF WOOD PANEL SHEATHING
 - JOIST FRAMING LOAD
 - CEILING
 - DUCTS, LIGHTS, MISC. MECHANICAL
 - TOTAL LOAD ON JOISTS
 - BEAM/JOIST GIRDER LOAD
 - TOTAL ON BEAM/JOIST GIRDERS
 - MIN

*FLAT ROOF SNOW LOAD, P_s = 22 PSF
GROUND SNOW, P_g = 20 PSF
SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
SNOW EXPOSURE FACTOR, C_e = 1.0
SNOW LOAD THERMAL FACTOR, C_t = 1.2
MINIMUM SNOW LOAD, P_s = 20 PSF

SEE SNOW DRIFT PLAN FOR DRIFT LOADS (P_d). SPECIFIED DRIFT LOADS (P_d) SHALL BE COMBINED WITH FLAT ROOF SNOW LOAD (P) OR SLOPED ROOF SNOW LOAD (P_s) FOR TOTAL SNOW LOADING AT DRIFT CONDITIONS.

SECONDARY ROOF DRAINAGE VIA SCUPPERS OR OVERFLOW DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE AND ASCE 7. SECONDARY ROOF DRAINAGE SHALL BE DESIGNED BY OTHERS TO LIMIT THE TOTAL DEPTH OF WATER (STATIC HEAD + HYDRAULIC HEAD OVER SECONDARY ROOF DRAINS) TO 4" MAXIMUM ABOVE THE ROOF MEMBRANE AT THE PRIMARY ROOF DRAIN.

2. WIND LOAD (PER ASCE 7):

- BASIC DESIGN WIND SPEED, V_h 100 MPH
- ALLOWABLE STRESS DESIGN WIND SPEED, V_o = 83 MPH
- RISK CATEGORY II
- WIND EXPOSURE = B (ALL WIND DIRECTIONS)
- INTERNAL PRESSURE COEFFICIENT, C_{pi} = 0.00

3. SEISMIC LOAD

- SEISMIC RISK CATEGORY
- SEISMIC IMPORTANCE FACTOR, I_e
- MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_s
- MAPPED SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S₁
- DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT SHORT PERIOD, S_{ps}
- DESIGN SPECTRAL RESPONSE ACCELERATION FACTOR AT 1 SECOND PERIOD, S_{p1}
- H. SEISMIC DESIGN CATEGORY
- BASIC SEISMIC FORCE RESISTING SYSTEM SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- RESPONSE MODIFICATION COEFFICIENT, R
- K. SEISMIC RESPONSE COEFFICIENT, C_s
- L. ANALYSIS PROCEDURE USED

- CONCENTRATED LOADS: 300 POUNDS OVER 2.5 FEET SQUARE

CONSTRUCTION & SAFETY

- DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN SECTION 153.011 OF THE REVISED CODE APPLY TO THIS PROJECT. COPIES OF SECTION 153.011 OF THE REVISED CODE CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE OHIO DEPARTMENT OF ADMINISTRATIVE SERVICES. THE FIRST SHEET OF STEEL SHOP DRAWINGS SHALL BEAR A SIGNED CERTIFICATION BY THE FABRICATOR INDICATING THAT NO FOREIGN STEEL IS BEING USED. THE FIRST SHEET OF STEEL SHOP DRAWINGS SHALL ALSO BEAR A SIGNED CERTIFICATION BY THE CONTRACTOR AND FABRICATOR INDICATING THAT NO FOREIGN STEEL IS BEING USED.
- ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND IS NOT LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS PERSONAL SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
- PRIOR TO COMMENCEMENT OF STEEL ERECTION, CONTRACTOR MUST PROVIDE THE STEEL ERECTOR WRITTEN NOTIFICATION THAT THE CONCRETE IN THE FOOTINGS, PIERS AND WALLS OR THE MORTAR IN THE MASONRY PIERS AND WALLS HAS ATTAINED EITHER 75 PERCENT OF THE INTENDED MINIMUM COMPRESSIVE DESIGN STRENGTH OR SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED DURING STEEL ERECTION.
- ANCHOR RODS AND FOUNDATION DOWELS SHALL NOT BE REPAIRED, REPLACED OR FIELD-MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. SHOULD ANY DISCREPANCY BE FOUND, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF THE CONDITION.
- CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.

LATERAL LOAD RESISTING SYSTEM

- THE LATERAL LOAD RESISTING SYSTEM CONSISTS OF THE FOLLOWING ELEMENTS:
 - MAGNESIUM OXIDE STRUCTURAL PANEL SHEATHING DIAPHRAGM THROUGHOUT
 - STEEL MOMENT FRAMES NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

FOUNDATIONS

- PER CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS. THE CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY DESIGN ASSUMPTIONS PRIOR TO FOUNDATION INSTALLATION. THE COST FOR THE GEOTECHNICAL ENGINEER SHALL BE LISTED AS A SEPARATE ITEM ON THE CONTRACTOR'S BID. THE CONTRACTOR SHALL SUBMIT COPIES OF THE GEOTECHNICAL ENGINEER'S REPORT TO SCHAEFER. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR CONTRACTOR ENGINEER FILL. IN ALIGNMENT WITH BUILDING ORIGINAL CONSTRUCTION DOCUMENTS, FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING CAPACITY OF 2000 PSF BELOW STRIP FOOTINGS AND 2000 PSF BELOW ISOLATED COLUMN FOOTINGS.
- ALL AREAS WITHIN THE FOOTPRINT OF THE BUILDING, INCLUDING UTILITY TRENCHES, MUST BE FREE OF ANY WET AND/OR SOFT AREAS PRIOR TO PLACEMENT OF FILL MATERIAL OR SLAB.
- CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
- FILL MATERIALS: ALL FILL MATERIALS SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER, INCLUDING THE SUITABILITY OF ALL EXCAVATED ON-SITE SOILS FOR RE-USE. MATERIAL SHALL NOT BE PLACED ON FROZEN GROUND.

- CONTROLLED LOW STRENGTH MATERIAL (CLSM): SELF-LEVELING AND SELF-COMPACTING CEMENTITIOUS MATERIAL WITH AN UNCONFINED COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI.
- WELL GRADED GRANULAR MATERIAL: WELL GRADED MIXTURE OF CRUSHED GRAVEL, CRUSHED STONE, AND SAND PER ASTM D 485 WITH AT LEAST 16 PERCENT PASSING A 1/2" SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NO. 200 SIEVE.

- FREE DRAINING GRANULAR FILL: UNWELL GRADED MIXTURE OF CRUSHED STONE PER ASTM D448 WITH COARSE AGGREGATE GRADING SIZE #7 WITH 100 PERCENT PASSING A 1/2" SIEVE AND NO MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
- IMPERVIOUS FILL: LEAN CLAYEY GRAVEL AND SAND MIXTURE CAPABLE OF COMPACTING TO A DENSE STATE.
- FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUBSURFACE SOIL CONDITIONS. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
- FROST DEPTH IS 30 INCHES BELOW GRADE. BOTTOM OF FOOTINGS, MAT FOUNDATIONS AND GRADE BEAMS THAT ARE NOT PART OF AN INSULATED FROST PROTECTED FOUNDATION SYSTEM AND ARE NOT WITHIN CONDITIONED SPACE MUST BE BELOW SPECIFIED MINIMUM FROST DEPTH AS MEASURED FROM EXTERIOR GRADE. MAINTAIN SPECIFIED TYPICAL ELEVATIONS AND THICKEN FOOTING OR PLACE ON CLSM AS REQUIRED.
- FOUNDATIONS MAY BE PLACED WITHOUT SIDE FORMS IF EXCAVATED WALLS STAND APPROXIMATELY VERTICAL.
- ENGINEERED FILL BENEATH FOOTINGS: MINIMUM COMPACTION 98% STANDARD PROCTOR MAXIMUM DRY DENSITY WITHIN +/- 3% OPTIMUM MOISTURE CONTENT.

- FILL AT UTILITY TRENCHES UNDER FOOTINGS, EXCAVATED PRIOR TO FOOTING CONSTRUCTION.
 - BACKFILL TRENCHES UNDER FOOTINGS AND WITHIN 18 INCHES OF BOTTOM OF FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
 - BACKFILL TRENCHES UNDER FOOTINGS AND MORE THAN 18 INCHES BELOW BOTTOM OF FOOTINGS WITH CLSM OR OTHER FILL MATERIAL APPROVED BY GEOTECHNICAL ENGINEER.
- FILL AT UTILITY TRENCHES BELOW FOOTINGS, EXCAVATED AFTER FOOTING CONSTRUCTION.
 - BACKFILL TRENCHES EXCAVATED UNDER EXISTING FOOTINGS WITH CLSM TO THE BOTTOM OF FOOTING ELEVATION.
- SEAL UTILITY TRENCH AT THE EXTERIOR FOUNDATION WALL BY USING A COMPACTED IMPERVIOUS FILL OR CLSM TO CREATE A DAM TO PREVENT ENTRY OF WATER.
- FINISHED GRADE SHALL SLOPE AWAY FROM THE PERIMETER FOUNDATION
- EXCAVATIONS:
 - EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS SHALL BE PERMITTED WITHOUT ANY SPECIAL MEASURES AS LONG AS THE BOTTOM NEAR EDGE OF THE EXCAVATION IS ABOVE ALINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION.
 - EXCAVATIONS IN THE VICINITY OF EXISTING FOUNDATIONS WITH THE BOTTOM NEAR EDGE OF THE EXCAVATION BELOW A LINE WITH SLOPE OF 2 HORIZONTAL TO 1 VERTICAL EXTENDING OUTWARD AND DOWNWARD FROM THE NEAREST BOTTOM CORNER OF THE EXISTING FOUNDATION SHALL BE MADE ONLY WITH THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE PROJECT GEOTECHNICAL ENGINEER. SUCH EXCAVATIONS MAY REQUIRE SPECIAL TEMPORARY EXCAVATION BRACING OR UNDERPINNING OF EXISTING FOUNDATIONS, WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR AS PART OF ITS SELECTED MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES. CONTRACTOR SHALL SUBMIT TEMPORARY EXCAVATION BRACING AND UNDERPINNING DETAILS PRIOR TO EXCAVATION. CONTRACTOR SHALL PERFORM THESE EXCAVATIONS WITH CAUTION SO AS NOT TO UNDERMINE ANY EXISTING STRUCTURE FOUNDATIONS, AND EXCAVATIONS SHALL BE MADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

CAST-IN-PLACE CONCRETE (03-30-00)

- CONCRETE MIXTURES: REFER TO CONCRETE MIXTURE REQUIREMENTS TABLE FOR CONCRETE MIX INFORMATION.
- CONCRETE MATERIALS:
 - CEMENTITIOUS MATERIALS
 - PORTLAND CEMENT: ASTM C150, TYPE I
 - BLENDED HYDRAULIC CEMENT: ASTM C595, TYPE II, PORTLAND LESTMSTONE CEMENT
 - FLY ASH: ASTM C918, CLASS F OR C. FLY ASH SHALL NOT EXCEED 20% OF TOTAL CEMENTITIOUS CONTENT BY MASS.
 - GROUND GRANULATED BLAST FURNACE SLAG: ASTM C698, GRADE 100 OR 120.
 - AGGREGATES:
 - NORMAL WEIGHT AGGREGATES: ASTM C33, COARSE GRADED.
 - ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
 - WATER REDUCING ADMIXTURE: ASTM C494
 - PLASTICIZING ADMIXTURE: ASTM C1017
 - AIR ENTRAINING ADMIXTURE: ASTM C260
 - CORROSION INHIBITOR: NON-SET-ACCELERATING - CORTEC MCI 2000S
 - WATER: ASTM C594 AND POTABLE
- DETAILING REQUIREMENTS
 - CONTRACTION JOINTS IN SLABS ON GROUND SHALL NOT EXCEED A LENGTH TO WIDTH RATIO OF 1:5.1. SEE PLAN FOR MAXIMUM JOINT SPACING.
 - CONTRACTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTRACTION JOINT LOCATION. SEE DRAWINGS FOR TYPICAL DETAILS.
 - PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
 - CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE UNLESS EFFECTIVELY COATED TO PREVENT ALUMINUM-CONCRETE REACTION OR ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.
- CONCRETE PLACEMENT
 - ROUGHENED SURFACES: WHERE INDICATED, SHALL EITHER BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4" AND BE CLEAN AND FREE OF LANTAGE, OR FORMED BY EXPANDED METAL LEAVE-IN-PLACE MESH. SUBMIT PRODUCT INFORMATION FOR APPROVAL.

PERFORMANCE

- CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 308.1-90 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING" AND ACI 308R-16 "GUIDE TO COLD WEATHER CONCRETING".
- CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305.1-14 "SPECIFICATION FOR HOT WEATHER CONCRETING" AND ACI 305R-10 "GUIDE TO HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND SPEED SHALL BE ENTERED INTO MOMOGRAPH FIGURE 4.2 IN ACI 305R-10 TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
- TOLERANCES: CONFORM TO ACI 117-10

CONCRETE REINFORCING (03-20-00)

- MATERIALS
 - DEFORMED BARS: ASTM A615, OR ASTM A706, GRADE 60.
 - ASTM A706 DEFORMED BARS ARE REQUIRED FOR ALL WELDED REINFORCING BARS.
- REINFORCING DEVELOPMENT AND LAP SPICES (UNLESS OTHERWISE NOTED)
 - SEE REINFORCING BAR DEVELOPMENT TABLES FOR REQUIRED DEVELOPMENT AND LAP SPICE LENGTHS.

PERFORMANCE

- COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR PLACING AND SUPPORTING REINFORCEMENT.
- REINFORCING BARS SHALL HAVE CLEAR COVER AS INDICATED ON THE DRAWINGS. WHERE NOT INDICATED, PROVIDE MINIMUM CLEAR COVER PER ACI-318.
- REINFORCING BARS SHALL BE FREE OF DIRT AND FORM RELEASE AGENTS.

SUBMITTALS

- SHOP DRAWINGS FOR REINFORCING STEEL (COMPLY WITH ACI 308-06):
 - PRETENSIONED TENSIONING AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.

MASONRY

- MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602-2016), EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- COMPRESSIVE STRENGTH SHALL BE DETERMINED FOR EACH TYPE OF MASONRY BY THE UNIT STRENGTH METHOD.
- CONCRETE MASONRY: F_m = 2000 PSI AT 28 DAYS.
- SUBMITTALS SHALL BE MADE FOR THE FOLLOWING:
 - COLD WEATHER CONSTRUCTION PROCEDURE.
 - HOT WEATHER CONSTRUCTION PROCEDURE.
- MANUFACTURERS LITERATURE FOR:
 - HORIZONTAL JOINT REINFORCING.
 - REINFORCING STEEL POSITIONERS.
 - MOVEMENT JOINT MATERIALS.
 - TIES & ANCHORS.
- SHOP DRAWINGS SHOWING:
 - DETAILS OF STEEL REINFORCING.
- MANUFACTURERS CERTIFICATE OF COMPLIANCE FOR SPECIFIED:
 - MASONRY UNIT.
 - REINFORCING STEEL.
- PROPORTIONS OF MATERIAL IN ACCORDANCE WITH REFERENCED SPECIFICATIONS OF:
 - MORTAR.
 - GROUT.

MATERIALS

- CONCRETE MASONRY UNITS: ASTM C90 TYPE I
 - BELOW GRADE: NORMAL WEIGHT AGGREGATE PER ASTM C33.
 - ABOVE GRADE: LIGHTWEIGHT AGGREGATE PER ASTM C331 OR NORMAL WEIGHT.
- MORTAR: ASTM C270
 - ALL MASONRY UNLESS NOTED OTHERWISE: TYPE S
- PORTLAND CEMENT-LIME MORTAR:
 - PORTLAND CEMENT: TYPE I
 - HYDRATED LIME: TYPE S
- MASONRY CEMENT MORTAR IS PERMITTED.
- GROUT: ASTM C476, SLUMP "8" TO 11". MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS.
- REINFORCING STEEL: ASTM A615, ASTM A706, OR ASTM A996, 60 KSI YIELD.
- HORIZONTAL JOINT REINFORCING FOR SINGLE WYTHE CONCRETE MASONRY: ASTM A615 9 GAGE LADDER TYPE, HOT DIPPEL GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.
- HORIZONTAL JOINT REINFORCING FOR CONCRETE MASONRY LAID IN STACK BOND: ASTM A615 3/16 LADDER TYPE, HOT DIPPEL GALVANIZED PER ASTM A153 CLASS B. PLACE HORIZONTAL JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. LAP HORIZONTAL JOINT REINFORCING 6" MINIMUM. HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS.

MORTAR PROPORTIONS MUST BE ACCURATELY MEASURED PRIOR TO MIXING. ADD CEMENT TO SIX FULL BAG QUANTITIES. MEASURE SAND IN BOX WITH VOLUME OF ONE CUBIC FOOT AS OFTEN AS NECESSARY TO MAINTAIN CONSISTENT PROPORTIONS AND AT LEAST ONCE DAILY AND EVERY 4 HOURS OF MIXING.

SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS OF FIRE RATED MASONRY.

PROVIDE PREFABRICATED "L" AND "T" SHAPED HORIZONTAL JOINT REINFORCING AT WALL INTERSECTIONS.

KEEP AIR SPACE BEHIND VENEER FREE OF MORTAR DROPPINGS.

RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE NOTED.

PROVIDE MOVEMENT (CONTROL AND EXPANSION) JOINTS IN WALLS WHERE INDICATED ON ARCHITECTURAL DRAWINGS. BOND BEAMS SHALL BE DISCONTINUOUS ACROSS MOVEMENT JOINTS UNLESS NOTED OTHERWISE.

MOVEMENT JOINTS IN CONCRETE BLOCK: SASH BLOCK UNIT WITH PREFORMED SHEAR KEY. DUAL-BOTH FACE. ALTERNATE DETAILS FOR CONTROL JOINTS MAY BE ACCEPTABLE - SUBMIT DETAILS FOR APPROVAL.

ALL REINFORCING STEEL SHALL BE SUPPORTED AND FASTENED TO APPROVED POSITIONERS LOCATED AT 192 BAR DIAMETERS MAXIMUM SPACING AND WITH A MINIMUM OF TWO POSITIONERS PER GROUT. FOUR ONE NEAR THE BOTTOM AND ONE NEAR THE TOP) TO PREVENT DISPLACEMENT DURING THE PLACEMENT OF GROUT.

GROUT ALL CELLS BELOW GRADE SOLID.

PROVIDE REINFORCING BAR SPICES AS SPECIFIED IN THE FOLLOWING TABLE. BAR SPICE COULERS MAY BE CONSIDERED AS A SUBSTITUTE. SUBMIT MANUFACTURER'S DATA PRIOR TO INSTALLATION.

| BAR SIZE | LAP SPICE |
|----------|-----------|
| #4 | 36" |
| #5 | 40" |
| #6 | 54" |
| #7 | 63" |

STRUCTURAL STEEL

- MATERIALS (UNLESS NOTED OTHERWISE):
 - L SHAPES: ASTM A572, GRADE 50, F_y = 50 KSI
 - PLATES AND BARS (THICKNESS 4 INCHES): ASTM A572, GRADE 50, F_y = 50 KSI
 - HSS SHAPES: ASTM A500, GRADE C, F_y = 50 KSI
 - BOLTS: ASTM F3125, GRADE A325-N, 3/4" DIAMETER (UNLESS NOTED OTHERWISE)
 - ANCHOR RODS (TYPICAL): ASTM F1554, GRADE 36
 - THREADED RODS: ASTM A306
 - WELDS: AWS E70XX, LOW HYDROGEN ELECTRODES.
 - NON-SHRINK NON-METALLIC GROUT: CRD-C-621 AND ASTM C1107 FOR INTERIOR AND EXTERIOR APPLICATIONS, FLUID TYPE.
 - LIMIT CYPRESS CONTENT TO 1.5% MAXIMUM AT EXTERIOR APPLICATIONS.
- ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS FOR "DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION
- FABRICATOR QUALIFICATIONS: STRUCTURAL STEEL FABRICATOR SHALL PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, AND SHALL BE DESIGNATED AS AN AISC-CERTIFIED PLANT, CATEGORY STD.

SUBMITTALS

- STRUCTURAL STEEL SHOP DRAWINGS
- MISC. METAL SHOP DRAWINGS (STAIRS, RAILINGS AND LADDERS INCLUDING ATTACHMENT TO THE PRIMARY STRUCTURE), INCLUDING ANALYSIS DATA, SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION.

CONNECTIONS:

- BOLTED CONNECTIONS ARE TO BE INSTALLED SNUG TIGHT UNLESS OTHERWISE NOTED.
 - PRETENSIONED TENSIONING AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. PROVIDE ENGINEERED FILL OR CLSM UNDER FOUNDATIONS AT SOFT SPOTS AND FOR EXTENDING EXCAVATION TO ADEQUATE BEARING MATERIAL. INSTALL FOUNDATIONS AT DESIGNED ELEVATIONS.
- FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS.
- WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS D1.1:2010)
- PAINT AND PROTECTION:
 - STEEL SURFACES UNLESS NOTED OTHERWISE: HOT DIP GALVANIZE PER ASTM A123 AFTER FABRICATION. COATING WEIGHT PER PARAGRAPH 5.1 OF ASTM A123 AND A153. FABRICATE ASSEMBLIES PER ASTM A143, A384, AND A385. PREPARE SURFACES FOR POWDER COATING PER ASTM A795. AFTER ERECTION, REPAIR DAMAGED AREAS AND WELLS MADE AFTER GALVANIZING IN ACCORDANCE WITH ASTM A780 WITH ORGANIC ZINC RICH PAINT COMPLYING WITH DOD-P-21235 OR MIL-P-28915. MULTIPLE COATS TO DRY FILM THICKNESS OF 4 MILS. FILL EXPOSED VENT AND DRAIN HOLES. NOT INDICATED AS WELD HOLES BY PLUGGING WITH ZINC SOLDER AND FLING OFF SMOOTH FINISH SURFACES WITH POWDER COAT. FINAL COLOR SELECTION BY ARCHITECT.
 - MEMBERS ENCASED IN CONCRETE: PROVIDE 3" MINIMUM CONCRETE COVER FOR ALL STEEL BELOW GRADE.

COLD-FORMED METAL FRAMING

- MATERIALS:
 - STRUCTURAL FRAMING MEMBERS 54 MILS (18 GAGE) & HEAVIER: ASTM A1003 & C955, F_y MINIMUM = 50 KSI, G60 GALVANIZED COATING (TYPICAL UNFO).
 - STRUCTURAL FRAMING MEMBERS 43 MILS (18 GAGE) & LIGHTER: ASTM A1003 & C955, F_y MINIMUM = 33 KSI, G60 GALVANIZED COATING (TYPICAL UNFO).
 - ALL TRACK & BRIDGING: F_y = 33 KSI MINIMUM, ASTM A1003 & C955, G60 GALVANIZED COATING.
 - STRAP BRACING: F_y = 50 KSI MINIMUM. SIZE & GAGE AS INDICATED. ASTM A1003 & C955, G60 GALVANIZED COATING.
 - SELF DRILLING SCREWS (SDS):
 - HEX OR PHILLIPS WASHER HEAD SELF-DRILLING TAPPING SCREWS (ASTM C1613) MANUFACTURED FROM CARBON STEEL (ASTM A 510, MIN. MAXIMUM 1018). ZINC PLATING SHALL MEET MINIMUM CORROSION RESISTANCE REQUIREMENTS OF ASTM F144.
 - WELDING ELECTRODES: E60XX
- WORK SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:
 - AMERICAN IRON AND STEEL INSTITUTE (A.I.S.I.) "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS", LATEST EDITION.
 - AMERICAN WELDING SOCIETY (A.W.S.) D 1.3, 2011 "STRUCTURAL WELDING CODE-SHEET STEEL"

SUBMITTALS:

- PRODUCT DATA: FOR EACH TYPE OF PRODUCT
- SHOP DRAWINGS:
 - CROSS-SECTIONS, PLANS AND/OR ELEVATIONS DEPICTING COMPONENT LAYOUT, SIZE AND LOCATION.
 - CONNECTION DETAILS SHOWING FASTENER TYPES AND LOCATIONS, WELD SIZE, LENGTHS AND LOCATIONS INCLUDING ATTACHMENTS TO ADJOINING WORK.
 - SIZE AND LOCATION OF ALL BRIDGING AND BRACING.
- CUT ALL FRAMING COMPONENTS SO THEY FIT SQUARELY TOGETHER. STUDS MUST BEAR TIGHT AGAINST TRACK WEB. MEMBERS SHALL BE HELD POSITIVELY IN PLACE UNTIL PROPERLY FASTENED. BRACE SHALL COMPONENTS AS REQUIRED DURING ERECTION TO PREVENT RACKING AND DISTORTION.
- ALL FRAMING SHALL BE THE COMPONENTS SPECIFIED ON THE STRUCTURAL DRAWINGS AS MANUFACTURED IN ACCORDANCE WITH THE INDICATED STEEL. STUD MANUFACTURERS ASSOCIATION (SMA) SIZE, STYLE, AND MATERIAL THICKNESS. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, ALL FRAMING MEMBERS SHALL BE S-SECTIONS WITH 1/8" FLANGE WIDTH, AND ALL TRACK SHALL HAVE 1/4" FLANGE WIDTH.
- PRIOR TO THE START OF INSTALLATION OF COLD-FORMED STEEL FRAMING SYSTEMS, MEET AT THE PROJECT SITE WITH THE INSTALLERS OF OTHER WORK INCLUDING DOOR AND WINDOW FRAMES, MECHANICAL, STRUCTURAL AND ELECTRICAL WORK. REVIEW AREAS OF POTENTIAL INTERFERENCE AND CONFLICTS AND COORDINATE LAYOUT AND SUPPORT PROVISIONS FOR INTERACTING WORK.
- ALL WELDED CONNECTIONS SHALL BE MADE BY WELDERS CERTIFIED FOR WELDING MEMBERS OF GAGE BEING USED PER AWS D1.3:11.

ERECTION TOLERANCES. FABRICATE AND ERECT ASSEMBLIES LEVEL, PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE VARIATION OF 1/8 INCH IN 10 FEET AND AS FOLLOWS:

- SPACING: SPACE INDIVIDUAL FRAMING MEMBERS NO MORE THAN PLUS OR MINUS 1/8 INCH FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.
- SQUARENESS: FABRICATE EACH COLD-FORMED STEEL FRAMING ASSEMBLY TO A MAXIMUM OUT-OF-SQUARE TOLERANCE OF 1/8 INCH.

POST INSTALLED ANCHORS

- INSTALLATION: INSTALL ANCHORS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI).
- CONNECTIONS TO EXISTING REINFORCED CONCRETE OR MASONRY: PRIOR TO DRILLING, VERIFY LOCATIONS OF EXISTING REINFORCING BARS USING A REBAR DETECTOR. NOTIFY ENGINEER PRIOR TO INSTALLATION IF ANCHOR LOCATIONS CONFLICT WITH EXISTING REINFORCING BARS. DO NOT DRILL THROUGH REINFORCING BARS.
- TESTING AND INSPECTION: REFER TO EVALUATION REPORTS FOR ADDITIONAL TESTING AND INSPECTION REQUIREMENTS.
- SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH SPECIFIED ACCEPTANCE CRITERIA MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
- ADHESIVE ANCHORS:
 - ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. SIZE AND EMBEDMENT AS INDICATED ON DRAWINGS.
 - ADHESIVE IN CONCRETE: SIMPSON STRONG-TIE "AT-XP" (EVALUATION REPORT: IAPMO UES EK-263). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC308 AND ACI 308.4 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
 - VERIFY THAT THE SHELF LIFE OF THE ADHESIVE HAS NOT BEEN EXCEEDED ON THE DATE OF INSTALLATION.
- EXPANSION ANCHORS:
 - ANCHORAGE TO CONCRETE: SIMPSON STRONG-TIE "STRONG-BOLT Z" 316 STAINLESS STEEL (EVALUATION REPORT: ICC-ES ESR-3037). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC109 AND ACI 308.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.
- SCREW ANCHORS
 - ANCHORAGE TO CONCRETE: SIMPSON STRONG-TIE "MECHANICALLY GALVANIZED TITEN HD" (EVALUATION REPORT: ICC-ES ESR-2713). SUBSTITUTES COMPLYING WITH ACCEPTANCE CRITERIA ICC-ES AC109 AND ACI 308.2 FOR USE IN CRACKED CONCRETE MAY BE CONSIDERED.

POWERACTUATED FASTENERS (PAF)

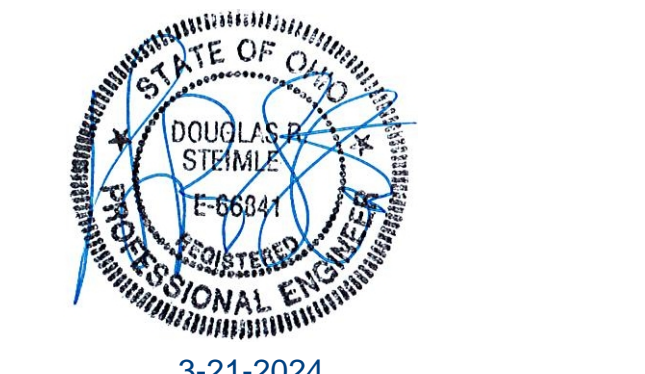
- INSTALLATION: INSTALL FASTENERS PER EVALUATION REPORT AND MANUFACTURER'S PRINTED INSTRUCTIONS (MPI)

- SUBSTITUTIONS: SUBSTITUTIONS COMPLYING WITH ICC-ES ACCEPTANCE CRITERIA AC 70, INCLUDING ANNEX A FOR SEISMIC LOADING MAY BE CONSIDERED. SUBMIT EVALUATION REPORT DEMONSTRATING GREATER OR EQUAL CAPACITY AND COMPLIANCE WITH GOVERNING CODE AND SPECIFIED ACCEPTANCE CRITERIA PRIOR TO INSTALLATION.
- FASTENING WOOD FRAMING AND C

| REV | DATE | DESCRIPTION |
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Schaefer Project Number: 24-0201



3-21-2024

| SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.2.1 STRUCTURAL STEEL | | | | | | |
|---|---|---------|---------|-----|--|--|
| Item | Sub Item / Scope | Extent | | | Agency Qualifications | Comments |
| | | Observe | Perform | N/A | | |
| In-Plant Special Inspections | Fabrication and implementation procedures. In addition to special inspections provided on site, provide special inspections indicated below on the premises of fabricator's shop. Verify that the fabricator maintains detailed fabrication and quality control procedures. | X | X | | As Noted Below | Special inspections on the premises of the fabricator's shop are not required provided the fabricator is an Approved Fabricator in accordance with section 1704.2. Fabricator is required to submit documentation/verification that they are an Approved Fabricator. |
| 1. Fabricator and erector documents | Verify reports and certificates as listed in ABCS 360, chapter N, paragraph 3.2 for compliance with construction documents. | | X | | Schaefer Submittal Review | |
| 2. Material verification of structural steel | Verify material in shop and field inspection | | X | | Testing Agency | |
| 3. Embedments | Verify diameter, grade, type, length, embedment. See Table 1705.3 for anchors. | | X | | Testing Agency | |
| 4. Verify compliance with construction documents | Verify member locations, bracing, stiffeners, and application of joint details at each connection comply with construction documents | | X | | Testing Agency | |
| 5.4-1. Visual Welding Inspection - Inspection Tasks Before Welding: | 1. Welder qualifications records and continuity records 2. Welding procedure specifications (WPS) available 3. Manufacturer certifications for welding consumables available 4. Material Identification (type/grade) 5. Welder certification system (The fabricator or erector, as applicable, shall maintain a system by which a welder who has welded a joint or member can be identified. Stamps, if used, shall be the low-stress type) 6. Fit up of Groove Welds (Including Joint Geometry): Inspection shall include joint preparation, Dimensions (alignment, root opening, root face, and bevel), Cleanliness (condition of steel surfaces), Tacking back weld quality and location, Backing type and fit (if applicable) 7. Fit up of CJP Groove Welds of HSS T-, K-, Y-, and K-joints (Including Joint Geometry): Inspection shall include joint preparation, Dimensions (alignment, root opening, root face, and bevel), Cleanliness (condition of steel surfaces), Tacking back weld quality and location, Backing type and fit (if applicable) 8. Configuration and finish of access holes 9. Fit up of Fillet Welds: Inspection shall include: Dimensions (alignment, root opening, root face, and bevel), Cleanliness (condition of steel surfaces), Tacking 10. Check welding equipment | | X | | Testing Agency AWS - Certified Welding Inspector | |
| 5.4-2. Visual Welding Inspection - Inspection Tasks During Welding: | 1. Control and Handling of Welding Consumables: Packaging and Exposure control 2. No welding over cracked tack welds. 3. Environmental Conditions: Wind speed within limits, and precipitation and temperature. 4. WPS Followed: Observe Settings on welding equipment, Travel speed, Selected welding materials, Shielding gas type/flow rate, Preheat applied, Interpass temperature maintained (min and max), and Proper position (F.V.F.Ch) 5. Welding Techniques: Interpass and final cleaning. Each pass within profile limitations. Each pass meets quality requirements. 6. Placement and installation of steel headed stud anchors | | X | | Testing Agency AWS - Certified Welding Inspector | |
| 5.4-3. Visual Welding Inspection - Inspection Tasks After Welding | 1. Welds Cleaned: 2. Size, Length, and Location of Welds: 3. Welds meet visual acceptance criteria: Crack prohibition, Weld/bead-metal fusion, Crater cross section, Weld profiles, Weld size, Undercut, Porosity. 4. Arc strikes: 5. Craters: 6. Weld access holes in rolled heavy shapes and built-up heavy shapes 7. Backing removed and weld tabs removed (if required): 8. Repair Activities: Document acceptance or rejection of welded joint or member | | X | | Testing Agency AWS - Certified Welding Inspector | |
| 5.5 Non-destructive Testing of Welds | 5.5.1. CJP Groove Welds: Ultrasonic testing shall be performed on 100 percent of CJP groove welds subject to transverse applied tension loading in butt, T- and corner joints, in materials 5/16 in thick or greater. Ultrasonic testing in materials less than 5/16 in thick is not required. Reduction of Rate of Ultrasonic Testing is permitted if the conditions of ABCS 360-16 Appendix N.5.6 are met. 5.5.2. Weld Joints Subjected to Fatigue: Welded joints requiring weld soundness to be established by Radiographic or Ultrasonic inspections. Reduction rate is established. | | X | | Testing Agency AWS - Certified Welding Inspector | Perform NDT for both in field and shop welds. |
| 5.6-1. Inspection of Bolting - Inspection Tasks Prior to Bolting | 1. Manufacturer's certifications available for fastener materials. 2. Fasteners marked in accordance with ASTM requirements 3. Proper fasteners selected for the joint detail (grade, type, and bolt length if threads are excluded from shear stress) 4. Proper bolting procedure selected for joint detail. 5. Connecting elements: Verify elements are fabricated properly, including the appropriate facing surface condition and hole preparation, if specified, meets the applicable requirements. 6. Pre-installation verification testing conducted for fastener assemblies and methods used 7. Proper storage provided for bolts, nuts, washers, and other fastener components | | X | | Testing Agency | |
| 5.6-2. Inspection of Bolting - Inspection Tasks During Bolting | 1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are properly positioned. 2. Joint brought to the snug tight condition prior to the pretensioning operation. 3. Fastener component not turned by the wrench presented from rotating. 4. Bolts are pretensioned in accordance with the RCSC specification, progressing systematically from most rigid point toward free edges | | X | | Testing Agency | |
| 5.6-3. Inspection of Bolting - Inspection Tasks After Bolting | 1. Document accepted and rejected connections: | | X | | Testing Agency | |

| SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.6 SOILS | | | | | | |
|--|--|--------|----------|-----|---|----------|
| Item | Sub Item / Scope | Extent | | | Agency Qualifications | Comments |
| | | Cont. | Periodic | N/A | | |
| 1. Bearing Materials | Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | | X | | Testing Agency Under supervision of Licensed Geotechnical Engineer | |
| 2. Excavations | Verify excavations are extended to proper depth and have reached proper material | | X | | Testing Agency Under supervision of Licensed Geotechnical Engineer | |
| 3. Fill Classification | Perform classification and testing of compacted fill material | | X | | Testing Agency Under supervision of Licensed Geotechnical Engineer | |
| 4. Placement and Fill Compaction | During fill placement, verify use of proper materials and procedure in accordance with the provisions of the approved geotechnical report. Verify densities and lift thicknesses during placement and compaction of compacted fill | | X | | Testing Agency Under supervision of Licensed Geotechnical Engineer | |
| 5. Subgrade | Prior to placement of compacted fill, inspect subgrade and verify that the site has been prepared properly | | X | | Testing Agency Under supervision of Licensed Geotechnical Engineer | |

| SCHEDULE OF SPECIAL INSPECTION SERVICES - 1705.3 CONCRETE CONSTRUCTION | | | | | | |
|--|--|--------|----------|-----|--|--|
| Item | Sub Item / Scope | Extent | | | Agency Qualifications | Comments |
| | | Cont. | Periodic | N/A | | |
| In-Plant Special Inspections (Precast Concrete) | Fabrication and implementation procedures: In addition to special inspections provided on site, provide special inspections indicated below on the premises of fabricator's shop. Verify that the fabricator maintains detailed fabrication and quality control procedures. | | | X | As Noted Below | Special inspections on the premises of the fabricator's shop are not required provided the fabricator is an Approved Fabricator in accordance with section 1704.2.5.1. Fabricator is required to submit documentation/verification that they are an Approved Fabricator. |
| 1. Reinforcing steel | a. Mild Reinforcing Steel: Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters. Verify welded wire fabric is supported per construction documents. Reference ACI 318: 20, 25.2, 25.3, 26.6-1-26.6-3, and IBC 1908.4. b. Prestress Steel: Inspect size, spacing, cover, and position of prestressing tendons. | | X | | Testing Agency | |
| 2. Welding of Reinforcing Steel | a. Verify weldability of reinforcing bars other than ASTM A706. Reference ACI 318: 26.8.4 and AWS D1.4 b. Inspect single pass fillet welds, maximum size c. Inspect all other welds | | X | | Testing Agency AWS - Certified Welding Inspector | |
| 3. Cast in Place Anchor Rods | Inspect size, position and embedment of cast in place bolts and anchor rods. Inspect concrete placement and consolidation around anchors. Reference ACI 318: 17.8.2 | | X | | Testing Agency | |
| 4. Post Installed Anchors (Anchors Installed in Hardened Concrete) | a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2.4 b. Mechanical anchors and adhesive anchors not defined in 4.a. Inspect type and size of anchor, concrete type and compressive strength, hole cleaning procedures, anchor embedment, anchor spacing and edge distances, and tightening torque (where applicable). Reference ACI 318: 17.8.2 | | X | | Testing Agency | Reference evaluation report (identified in project general notes) for additional inspection scope required by manufacturer. |
| 5. Mix Design | Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | | X | | Testing Agency | |
| 6. Sampling and Testing of Concrete | At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests as required by construction documents, and determine the temperature of concrete. Reference ASTM C 172, ASTM C31, ACI 318, 26.4.3, 26.4.4 | | X | | Testing Agency | |
| 7. Concrete and Shotcrete Placement | Inspect concrete and shotcrete placement for proper application techniques. Reference ACI 318: 26.5 and IBC 1908.6, 1908.7, and 1908.8. Verify that concrete segregation and degrading agents segregation or contamination. Verify that concrete is properly consolidated. | | X | | Testing Agency | |
| 8. Curing and Protection | Inspect for maintenance of specified curing temperature and techniques. Inspect cold weather and hot weather protection procedures as applicable. Reference ACI 318: 26.5.3-26.5.5 | | X | | Testing Agency | |
| 9. Prestressed (Post-Tensioned) Concrete | a. Application of Prestressing Forces: Inspect placement, tensioning, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied and wrapped. Record tendon elongations. Reference ACI 318: 26.10.2 b. Grouting of Bonded Prestressing Tendons in the Seismic-Force Resisting System: Reference ACI 318: 26.10.1 | | | X | Testing Agency | |
| 10. Precast Concrete Erection | Inspect erection of precast concrete including member configuration, connections, welding and grouting. Reference ACI 318: Ch. 26.9 | | | X | Testing Agency | |
| 11. Precast Concrete Diaphragms | For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E or F, inspect such connections and reinforcement in the field for: (a) installation of the embedded parts (b) Completion of the continuity of reinforcement across joints. (c) Completion of connections in the field. | | | X | Testing Agency | |
| 12. Precast Concrete Diaphragms | Inspect erection tolerances of precast concrete diaphragm connections for compliance with ACI 950.5 | | | X | Testing Agency | |
| 13. Verification of In-Situ Concrete Strength | Verify concrete strength prior to the removal of shores and forms from beams and structural slabs and prior to the stressing of tendons in post-tensioned concrete. Reference ACI 318: 26.10.2 & 26.11.1.2 | | | X | Testing Agency | |
| 14. Formwork Geometry | Inspect formwork for shape, location and dimensions of the concrete member being formed. Reference ACI 318: 26.11 | | | X | Testing Agency | |

| SYMBOL LEGEND | |
|---------------|-------------------------|
| SYMBOL | REFERENCE |
| | COLUMN LINE DESIGNATION |
| | FACE OF BUILDING |
| | BASE PL MARK |
| | KEYNOTE MARK |
| | ELEVATION INDICATION |
| | DECK MARK |

| ABBREVIATIONS | |
|---------------|--|
| NAME | DESCRIPTION |
| AFF | ABOVE FINISHED FLOOR ELEVATION |
| ARCH | ARCHITECT |
| B | BOTTOM |
| BLDG | BUILDING |
| BOT | BOTTOM |
| BRG | BEARING |
| CFS | COLD-FORMED STEEL |
| CJ | CONTRACTION JOINT |
| CJP | COMPLETE JOINT PENETRATION |
| CL | CENTER LINE |
| CLR | CLEAR |
| CLSM | CONTROLLED LOW STRENGTH MATERIAL |
| CMU | CONCRETE MASONRY UNIT |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| DEG or ° | DEGREE |
| DA or # | DIAMETER |
| EA | EACH |
| EF | EACH FACE |
| EL | ELEVATION |
| EMB | EMBEDMENT |
| EOB | EDGE OF DECK |
| EOS | EDGE OF SLAB |
| EQ | EQUAL |
| EXIST | EXISTING |
| EXP | EXPANSION |
| FOF | FOUNDATION |
| FS | FAR SIDE |
| FTG | FOOTING |
| GA | GAGE |
| GALV | GALVANIZED |
| GT | GRIDDER TRUSS |
| HORIZ | HORIZONTAL |
| JOIST BRG | JOIST BEARING |
| Ld | TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE |
| Ld-CMU | TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU |
| Ldc | COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE |
| Ldc-CMU | COMPRESSION DEVELOPMENT LENGTH OF REINFORCING BAR IN GROUTED CMU |
| Ldh | HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE |
| Ldv | HOOKED BAR TENSION DEVELOPMENT LENGTH OF REINFORCING BAR IN CONCRETE |
| LH | LONG LEG HORIZONTAL |
| LLV | LONG LEG VERTICAL |
| Ls | LAP SPlice LENGTH OF REINFORCING BAR IN CONCRETE |
| Ls-CMU | LAP SPlice LENGTH OF REINFORCING BAR IN GROUTED CMU |
| Ls-CMU | LAP SPlice LENGTH OF REINFORCING BAR IN GROUTED CMU |
| Ls-CMU | LAP SPlice LENGTH OF REINFORCING BAR IN GROUTED CMU |
| LVL | LAMINATED VENEER LUMBER |
| MFR | MANUFACTURER |
| NS | NEAR SIDE |
| OC | ON CENTER |
| OPNG | OPENING |
| OPP | OPPOSITE |
| PIT | POST-TENSION |
| PAF | POWER-ACTUATED FASTENER |
| PE | PRE-ENGINEERED |
| FEMB | PRE-ENGINEERED METAL BUILDING |
| PJP | PARTIAL JOINT PENETRATION |
| PL | PLATE |
| PSL | PARALLEL STRAND LUMBER |
| PT | PRESSURE TREATED |
| RD | ROOF DRAIN |
| REINF | REINFORCING |
| RTU | ROOF TOP UNIT |
| SDS | SELF DRILLING SCREWS |
| SM | SIMILAR |
| SL | STEP LEDGE |
| SOMD | SLAB ON METAL DECK |
| SPA | SPACE OR SPACES |
| SRD | SECONDARY ROOF DRAIN |
| STIFF | STIFFENER |
| STL | STEEL |
| STW | STEP TOP OF WALL |
| T | TOP OF |
| UNO | UNLESS NOTED OTHERWISE |
| VB | VERTICAL BRACING |
| VERT | VERTICAL |
| VF | VERIFY IN FIELD |
| w | WITH |
| WP | WORK POINT |

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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

SPECIAL INSPECTIONS

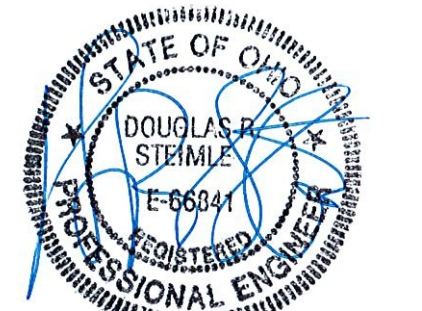
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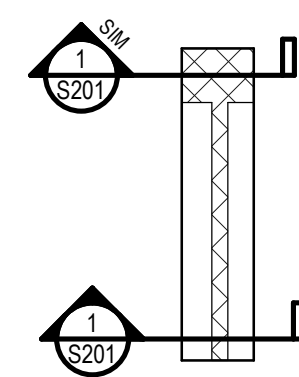
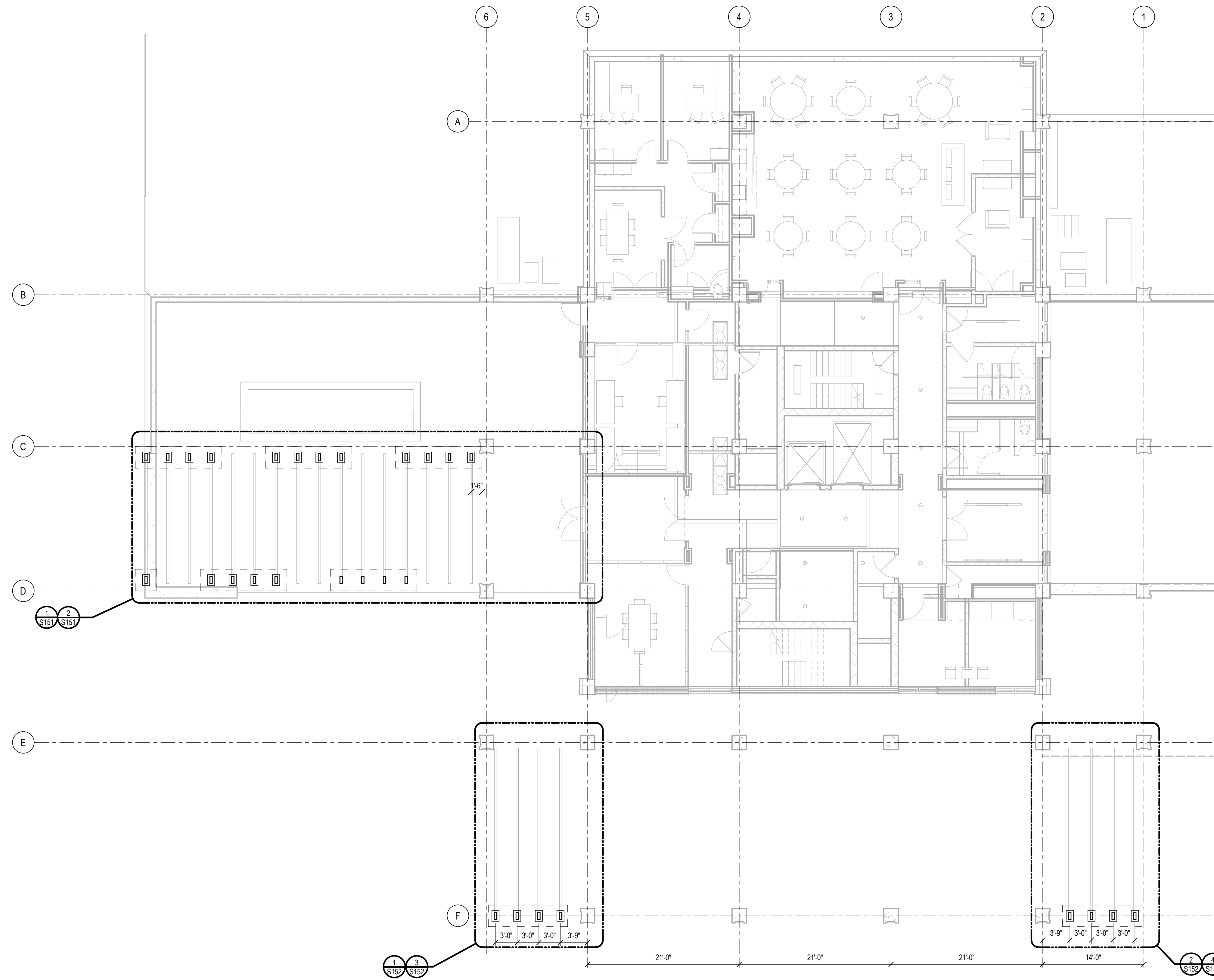
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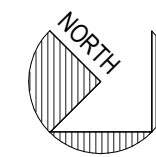
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3-21-2024



OVERALL FOUNDATION PLAN
1/8" = 1'-0"



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**Marquette Manor - Interior and
Exterior Improvements**
Cincinnati Metropolitan Housing
Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

FOUNDATION PLAN

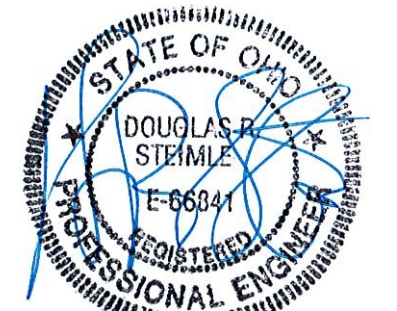
S101

| REV | DATE | DESCRIPTION |
|-----|------------|--------------------|
| | 2024.03.21 | Bidding and Permit |
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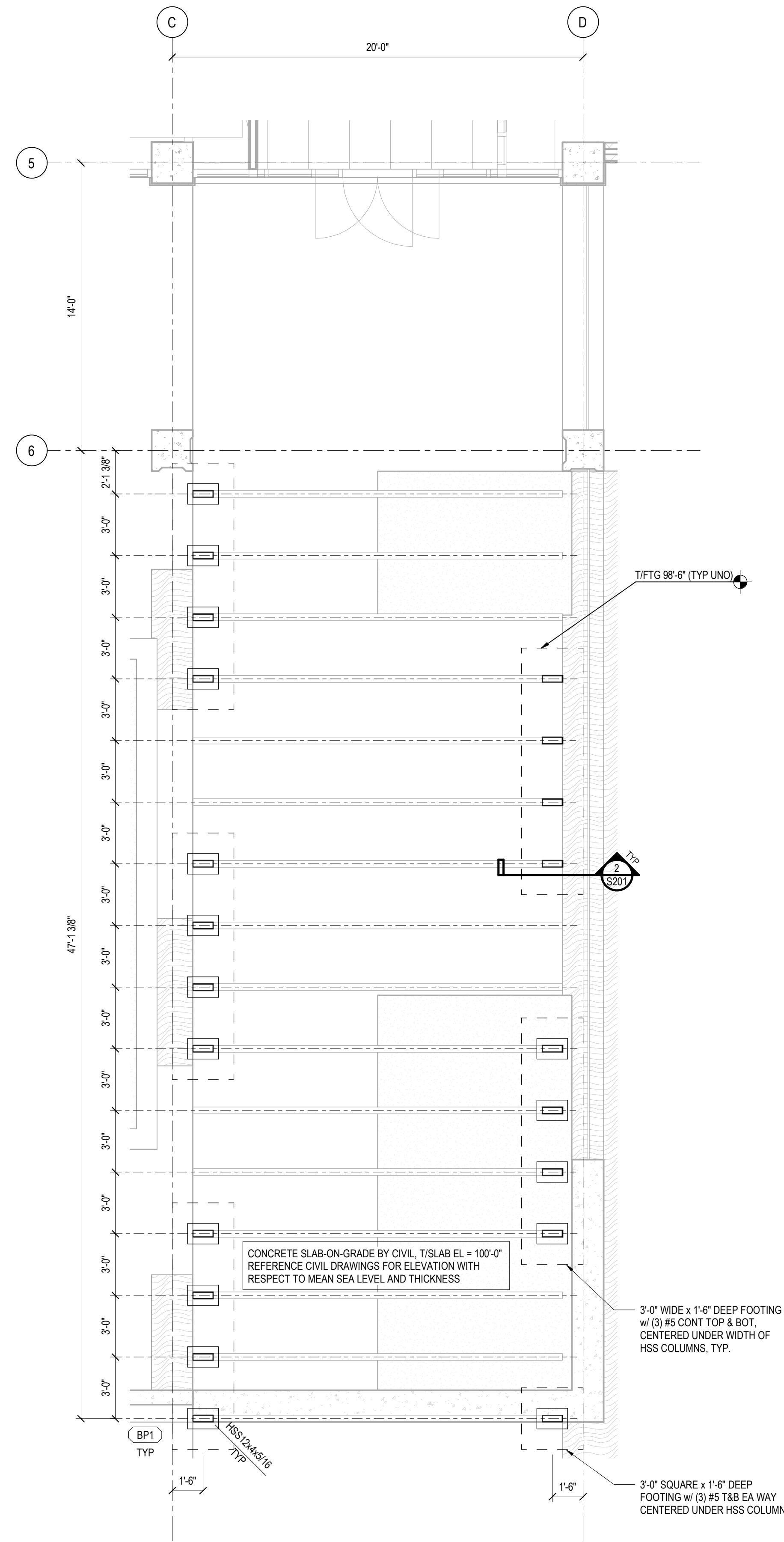
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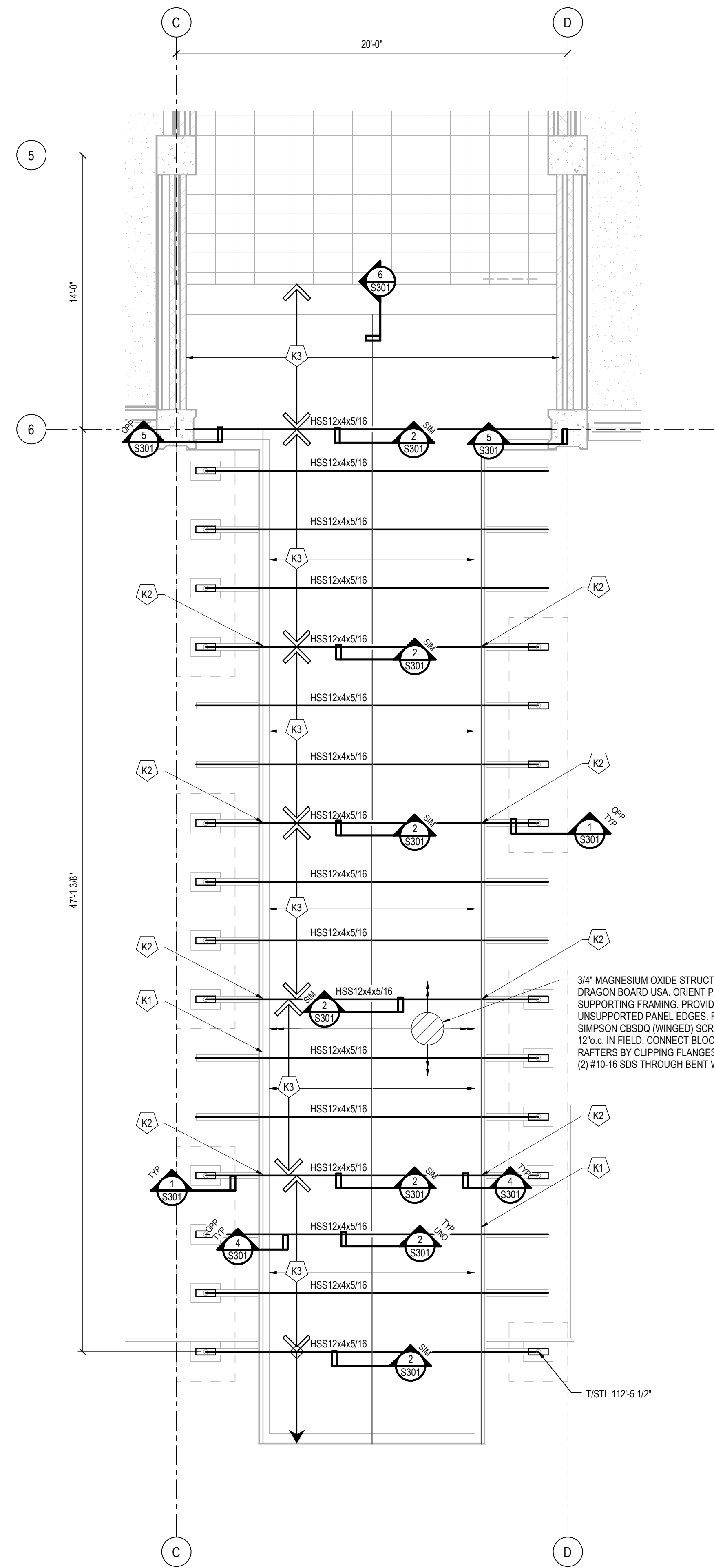
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3-21-2024



ENLARGED CANOPY FLOOR PLAN (1)
1/4" = 1'-0"
S151



ENLARGED CANOPY FRAMING PLAN (2)
NTS
S151

FRAMING KEYNOTES
1. (2)605200-43 TOE-TO-TOE @ EDGE OF ROOF FRAMING CONTINUOUS THROUGHOUT LENGTH OF CANOPY.
2. INDICATES ACCEPTABLE LOCATION OF DOUBLE RAFTER SPLICE.
3. 605200-43 @ 16" o.c.

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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

ENLARGED CANOPY PLANS

S151

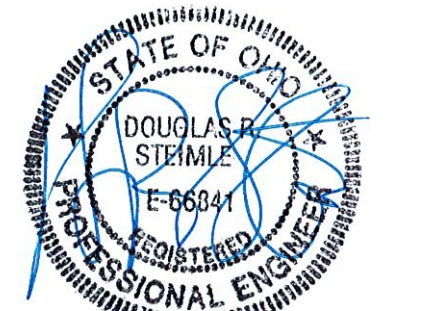
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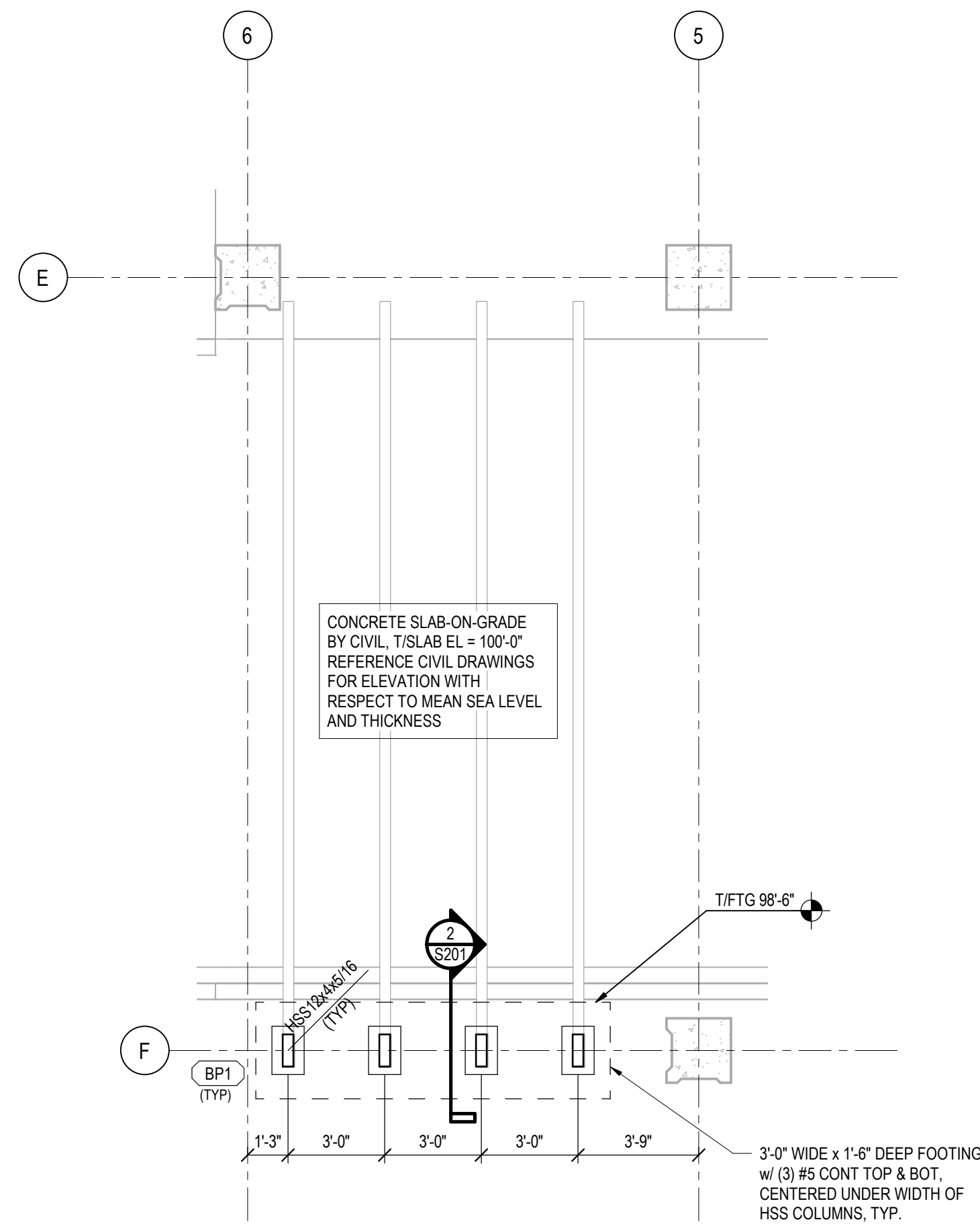
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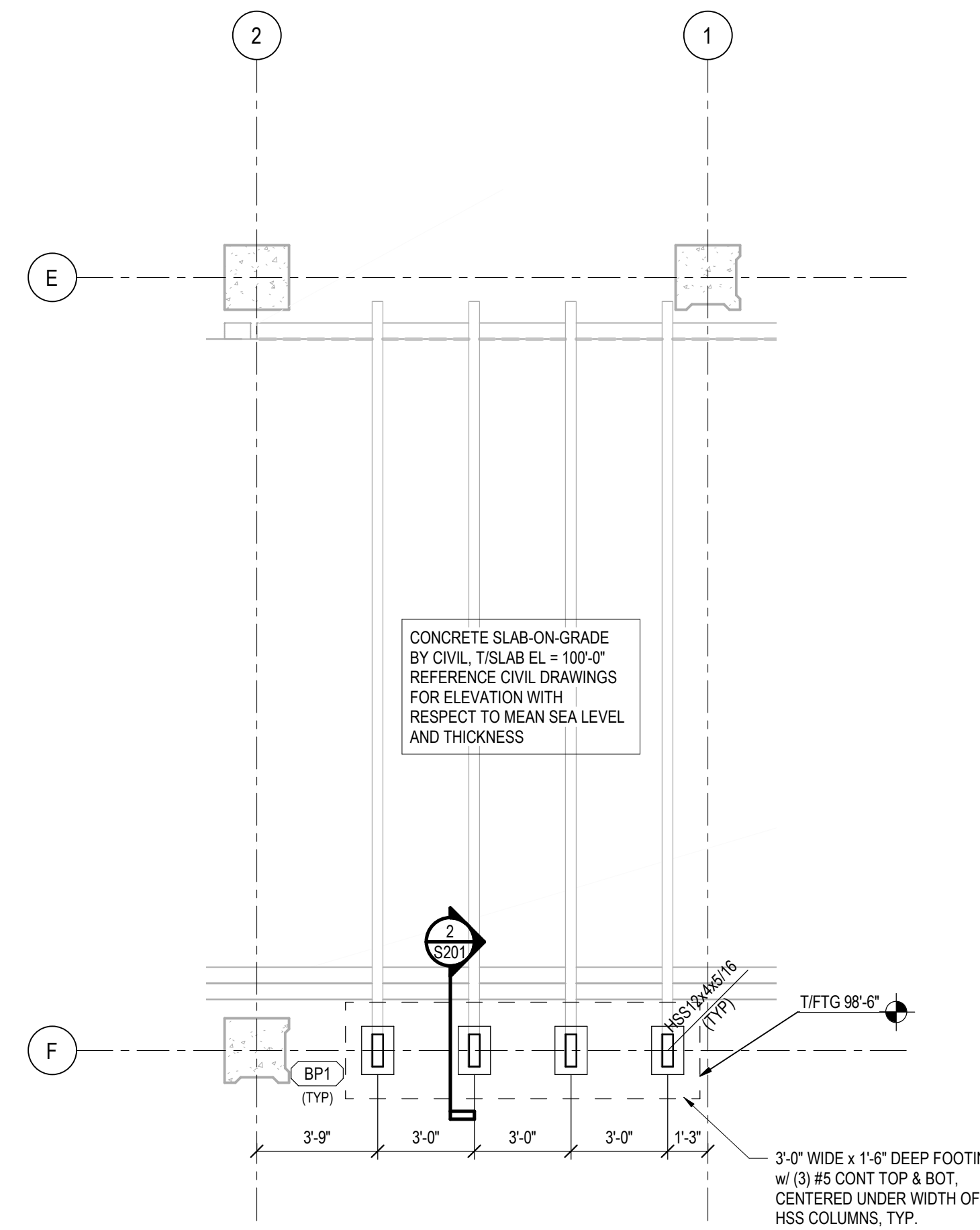
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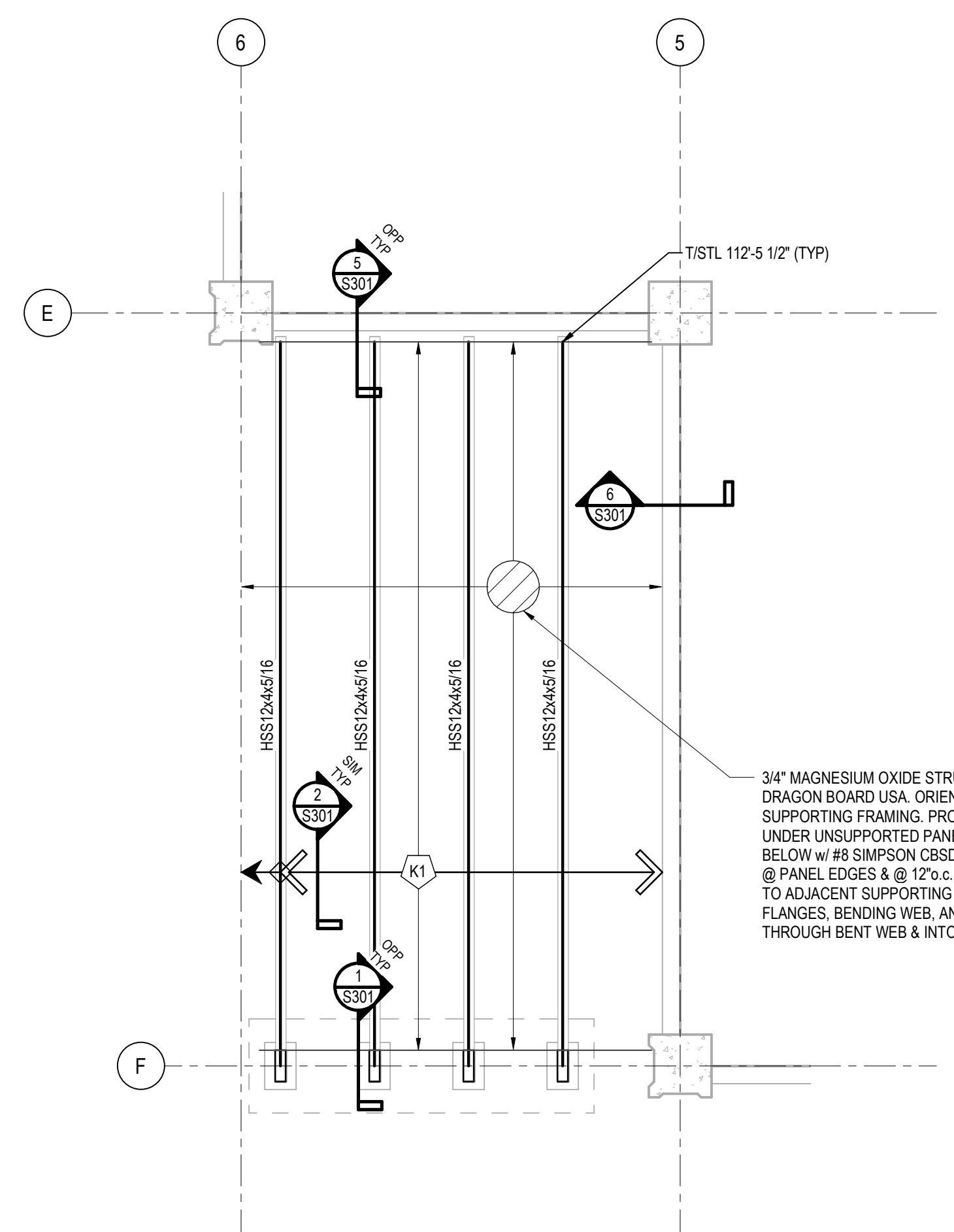


ENLARGED CANOPY FOUNDATION PLAN 1
1/4" = 1'-0" S152

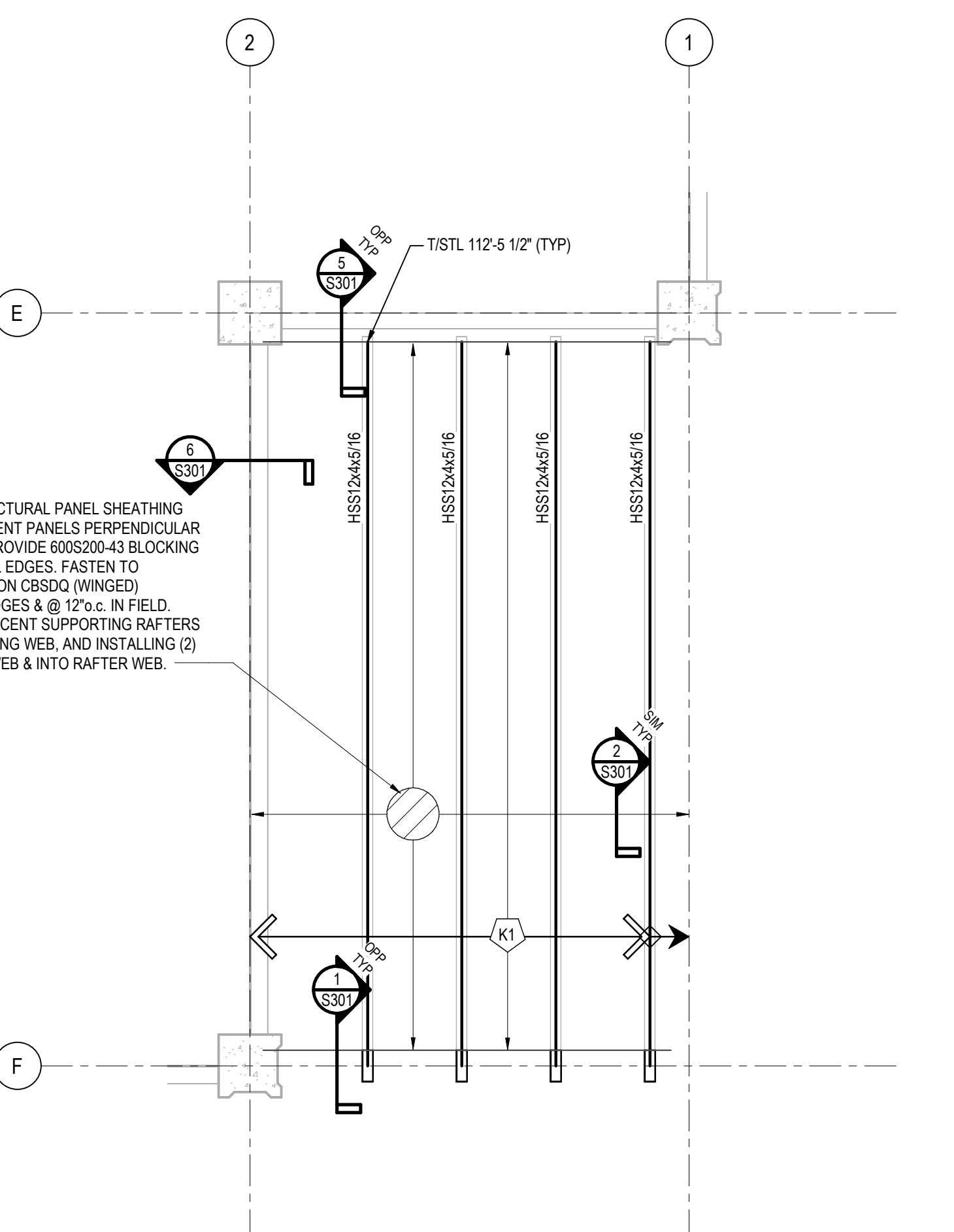


ENLARGED CANOPY FOUNDATION PLAN 2
1/4" = 1'-0" S152

FRAMING KEYNOTES
1. 60S200-43 @ 18" o.c.



ENLARGED CANOPY ROOF PLAN 3
1/4" = 1'-0" S152



ENLARGED CANOPY ROOF PLAN 4
1/4" = 1'-0" S152

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1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

ENLARGED CANOPY PLANS

S152

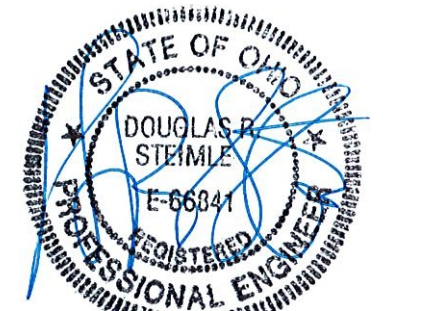
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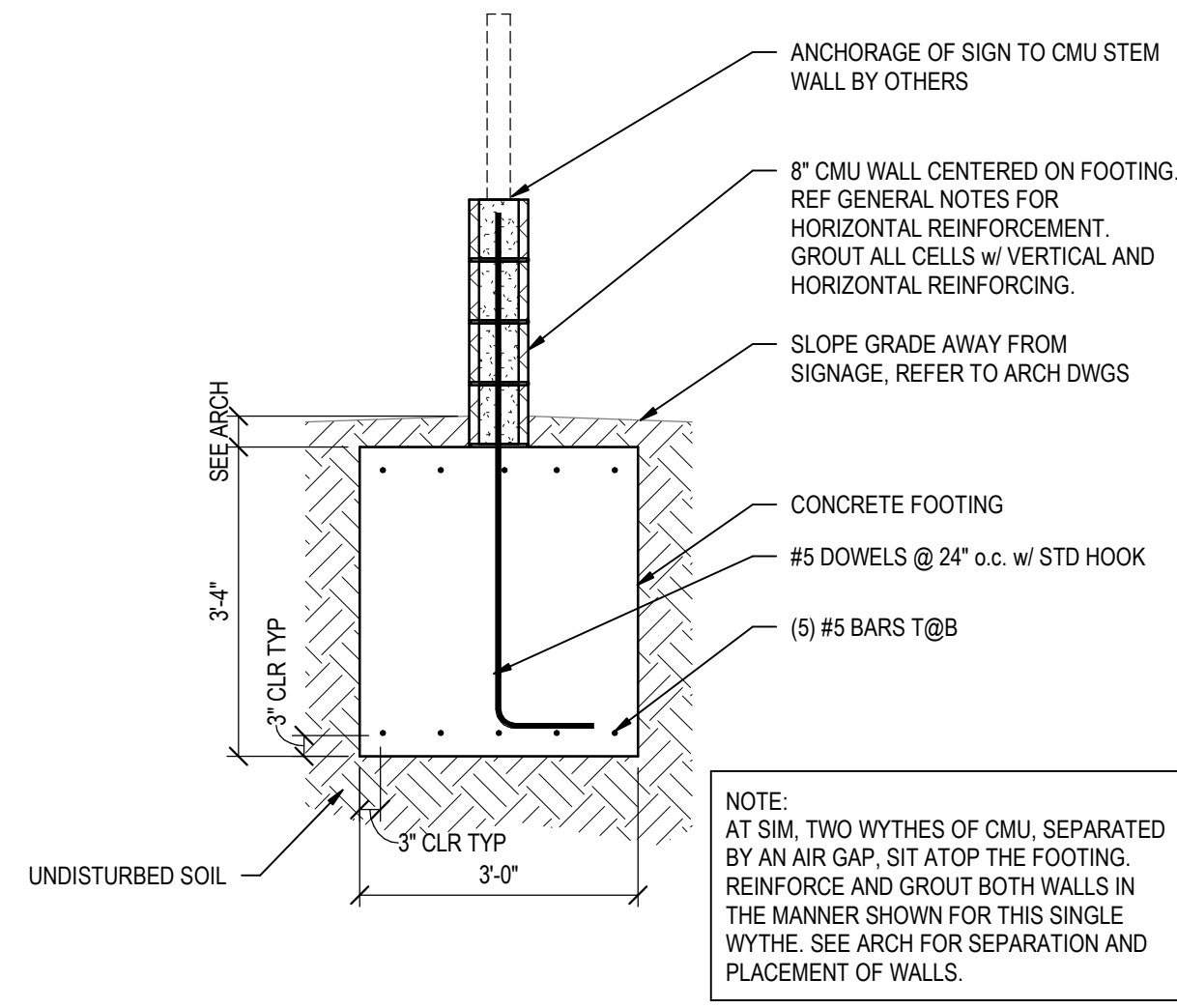
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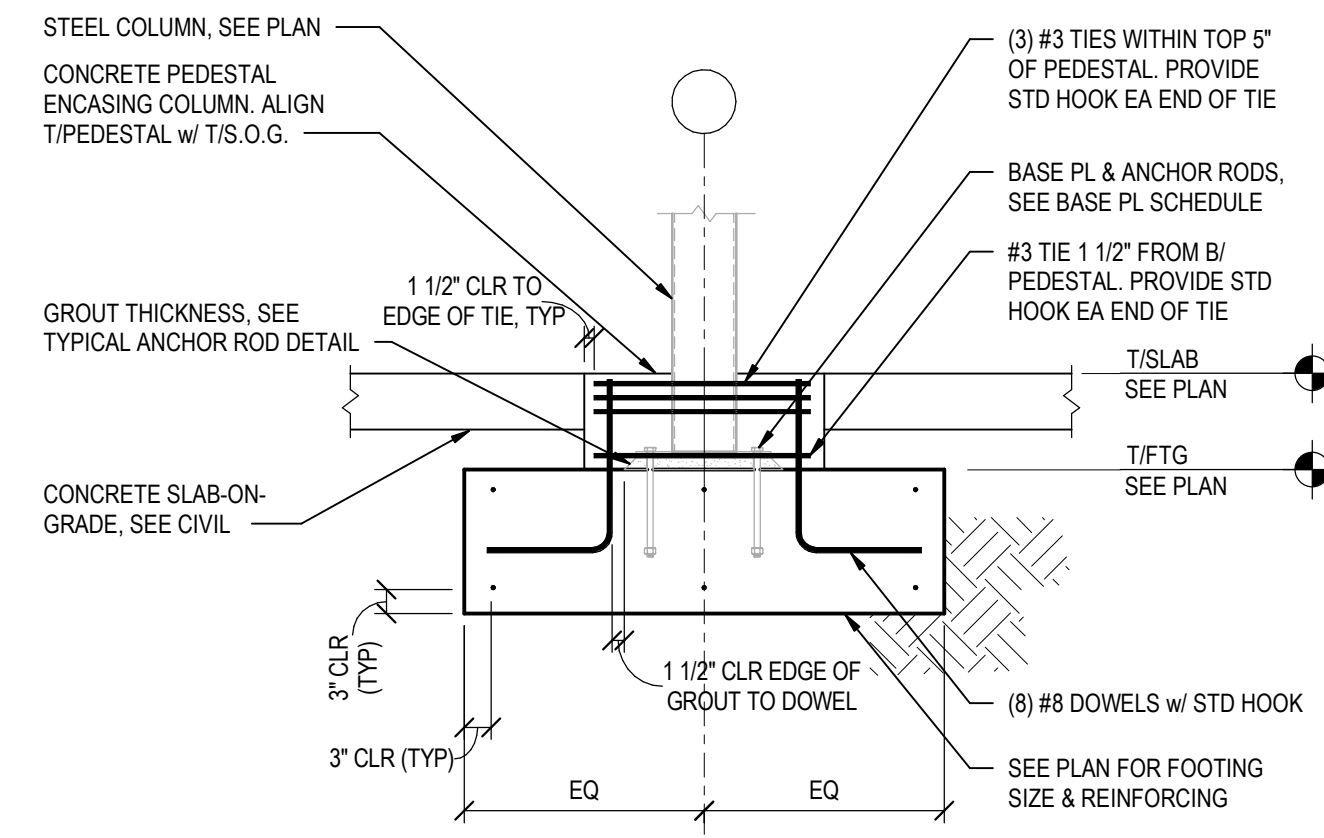
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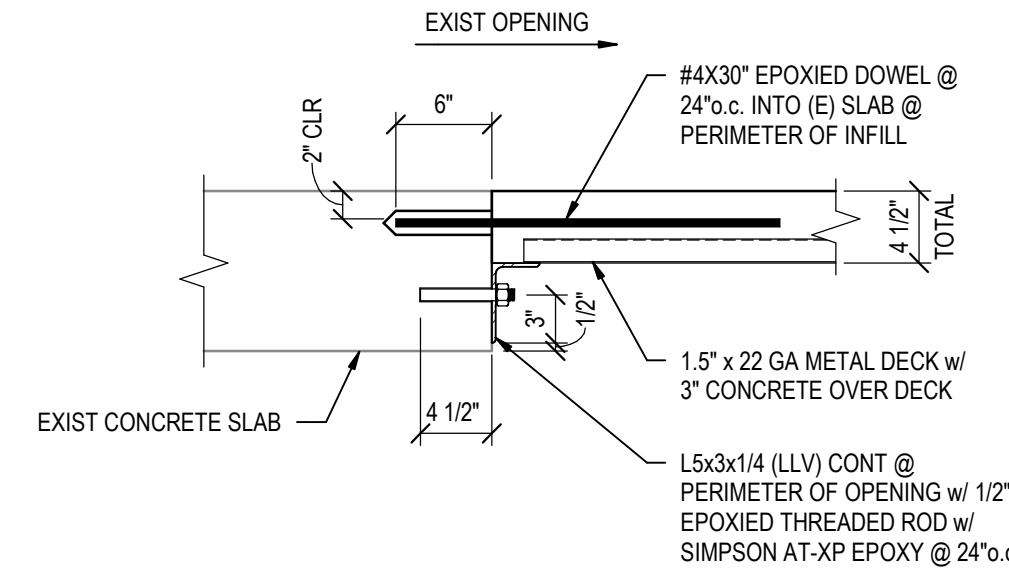
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SIGNALING RETAINING WALL 1
1/2" = 1'-0" S201

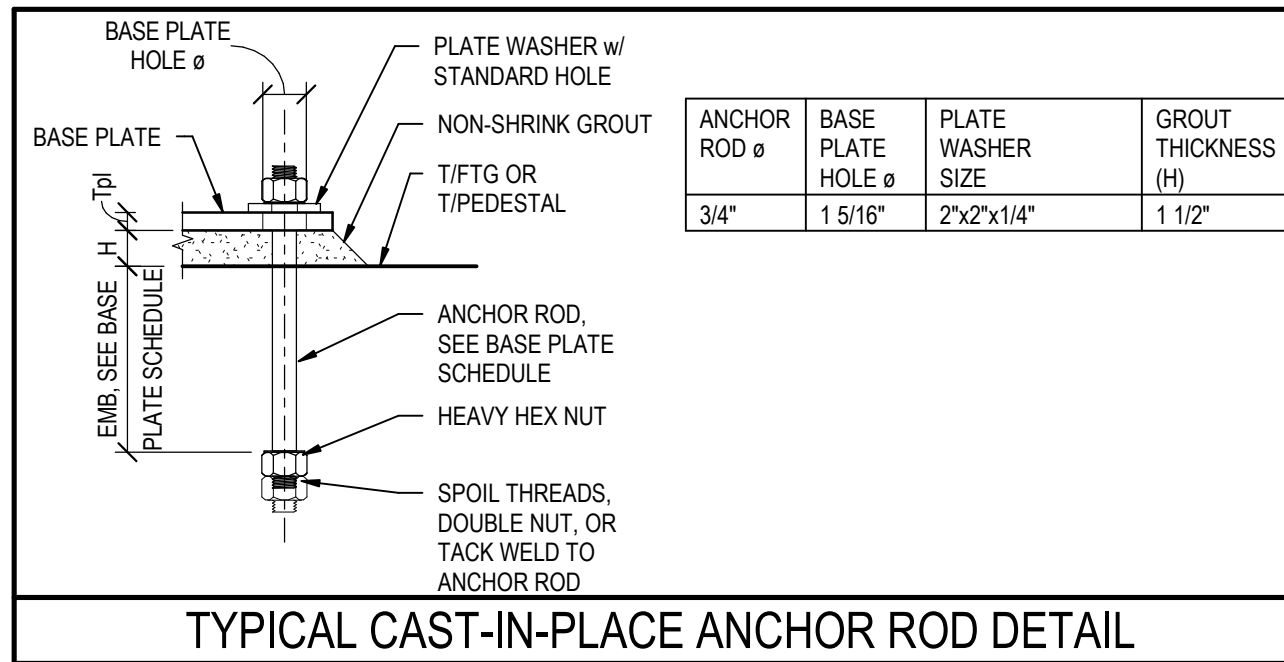


TYPICAL COLUMN FOUNDATION 2
1/2" = 1'-0" S201

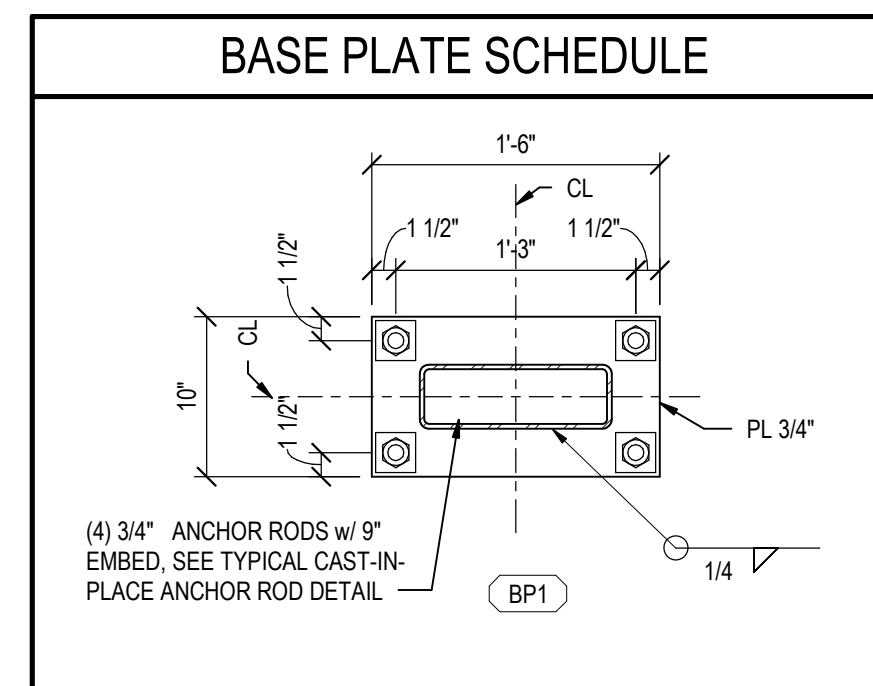


- NOTES:
- SEE ARCH FOR LOCATION OF SLAB INFILL.
 - CONCRETE INFILL HAS BEEN DESIGNED FOR A MAXIMUM SPAN OF 3'-3". A 10' EXISTING CONCRETE SLAB HAS BEEN ASSUMED BASED ON THE ORIGINAL CONSTRUCTION DRAWINGS.
 - LOCATE EXISTING REINFORCING PRIOR TO INSTALLING NEW ANCHORS AND REINFORCING. AVOID DAMAGING ALL (E) REINFORCING DURING DRILLING AND INSTALLATION.

SLAB INFILL DETAIL 3
1" = 1'-0" S201



TYPICAL CAST-IN-PLACE ANCHOR ROD DETAIL



BASE PLATE SCHEDULE

| | | CONCRETE MIXTURE REQUIREMENTS | | | | | | | | |
|----------------|--------------------------|-------------------------------|----|----|----|---|-------------------|-------------|---------------------------------------|---------|
| CONCRETE CLASS | DESCRIPTION | EXPOSURE CLASS | | | | MINIMUM f _c AT 28 DAYS (PSI) | MAXIMUM w/c RATIO | AIR CONTENT | MINIMUM CEMENTITIOUS MATERIAL (LB/CY) | REMARKS |
| | | F | S | W | C | | | | | |
| A | FOOTINGS AND GRADE BEAMS | F0 | S0 | W0 | C0 | 3000 | -- | -- | -- | -- |
| B | PEDESTALS | F2 | S0 | W0 | C1 | 4500 | 0.45 | 6% ±1.5% | -- | 1 |

CONCRETE MIXTURE NOTES:
A. PROVIDE MIX DESIGNS IN ACCORDANCE WITH ACI 301-16 FOR SPECIFIED EXPOSURE CLASS AND AGGREGATE.
B. NOMINAL MAX AGGREGATE SIZE = 3/4" UNLESS OTHERWISE NOTED
C. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS OTHERWISE NOTED

CONCRETE MIXTURE REMARKS:
1. MIGRATING CORROSION INHIBITOR: 1.5 PINTS PER CUBIC YARD

| SCHEDULE OF TENSION DEVELOPMENT AND LAP SPICE LENGTHS | | | | | | | | | | | |
|---|----------------|----------|----------------|----------|-----------------|--------------------------------------|----------------|----------|----------------|----------|-----------------|
| FOOTINGS (f _c = 3000PSI) | | | | | | PEDESTALS (f _c = 4500PSI) | | | | | |
| BAR SIZE | L _d | | L _s | | L _{dh} | BAR SIZE | L _d | | L _s | | L _{dh} |
| | OTHER BARS | TOP BARS | OTHER BARS | TOP BARS | | | OTHER BARS | TOP BARS | OTHER BARS | TOP BARS | |
| #3 | 17 | 22 | 22 | 28 | 8 | #3 | 12 | 12 | 16 | 16 | 7 |
| #4 | 22 | 29 | 29 | 38 | 12 | #4 | 12 | 14 | 16 | 19 | 11 |
| #5 | 28 | 36 | 36 | 47 | 16 | #5 | 14 | 18 | 18 | 23 | 15 |
| #6 | 33 | 43 | 43 | 56 | 21 | #6 | 17 | 21 | 21 | 28 | 20 |
| #7 | 48 | 63 | 63 | 81 | 27 | #7 | 24 | 31 | 31 | 40 | 24 |
| #8 | 55 | 72 | 72 | 93 | 32 | #8 | 27 | 35 | 35 | 46 | 30 |
| #9 | 62 | 81 | 81 | 105 | 39 | #9 | 34 | 44 | 44 | 57 | 36 |
| #10 | 70 | 91 | 91 | 118 | 46 | #10 | 42 | 54 | 54 | 70 | 42 |
| #11 | 78 | 101 | 101 | 131 | 54 | #11 | 50 | 65 | 65 | 84 | 50 |
| #14 | 93 | 121 | 121 | 157 | 71 | #14 | 68 | 88 | 88 | 115 | 65 |

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
i. FOR EPOXY COATED: MULTIPLY L_d, L_s BY 1.5; L_{dh} BY 1.2
B. NORMAL WEIGHT CONCRETE
i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY L_d, L_s, L_{dh} BY 1.33
C. CLEAR COVER GREATER THAN db
D. MIN 2" db CLEAR SPACING BETWEEN BARS

LAP AND DEVELOPMENT TABLE CRITERIA:
A. GRADE 60 UNCOATED REINFORCING STEEL
i. FOR EPOXY COATED: MULTIPLY L_d, L_s BY 1.5; L_{dh} BY 1.2
B. NORMAL WEIGHT CONCRETE
i. FOR LIGHTWEIGHT CONCRETE: MULTIPLY L_d, L_s, L_{dh} BY 1.33
C. 2" MIN CLEAR COVER
D. 4" MIN CLEAR SPACING BETWEEN BARS

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: L_d = 66 BAR DIAMETERS; L_s = 86 BAR DIAMETERS
#7 AND LARGER: L_d = 83 BAR DIAMETERS; L_s = 107 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM L_d AND L_s = 12"

FOR BARS THAT DO NOT MEET THE CLEAR COVER OR CLEAR SPACING INDICATED:
#6 AND SMALLER: L_d = 54 BAR DIAMETERS; L_s = 70 BAR DIAMETERS
#7 AND LARGER: L_d = 68 BAR DIAMETERS; L_s = 88 BAR DIAMETERS
FOR TOP BARS MULTIPLY BY 1.3
MINIMUM L_d AND L_s = 12"

LAP AND DEVELOPMENT TABLE NOTES & DEFINITIONS:
A. TOP BARS = HORIZ BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS
B. db = BAR DIAMETER
C. s = CENTER-TO-CENTER BAR SPACING
D. A_{th} = TOTAL AREA OF TIES OR STIRRUPS CONFINING HOOKED BARS
E. A_{hs} = TOTAL AREA OF HOOKED BARS BEING DEVELOPED
F. WHERE BARS OF DIFFERENT SIZES ARE SPICED, L_s FOR THE LARGER BAR SHALL BE USED
G. ALL TENSION SPLICES SHALL BE CLASS B, UNLESS NOTED OTHERWISE
H. L_{dh} VALUES FOR #11 BARS AND SMALLER MAY BE REDUCED AS FOLLOWS (PER ACI 318-19)
i. MULTIPLY BY 0.625 FOR (1) OR (2)
(1) A_{th} ≥ 0.40A_{hs}
(2) s ≥ 6db
ii. MULTIPLY BY 0.80 FOR (3) OR (4)
(3) HOOK TERMINATES IN COLUMN CORE & SIDE COVER NORMAL TO PLANE OF HOOK ≥ 2.5"
(4) SIDE COVER NORMAL TO PLANE OF HOOK ≥ 6db
iii. L_{dh} SHALL NOT BE LESS THAN THE LARGER OF 8db OR 6" WITH REDUCTIONS APPLIED

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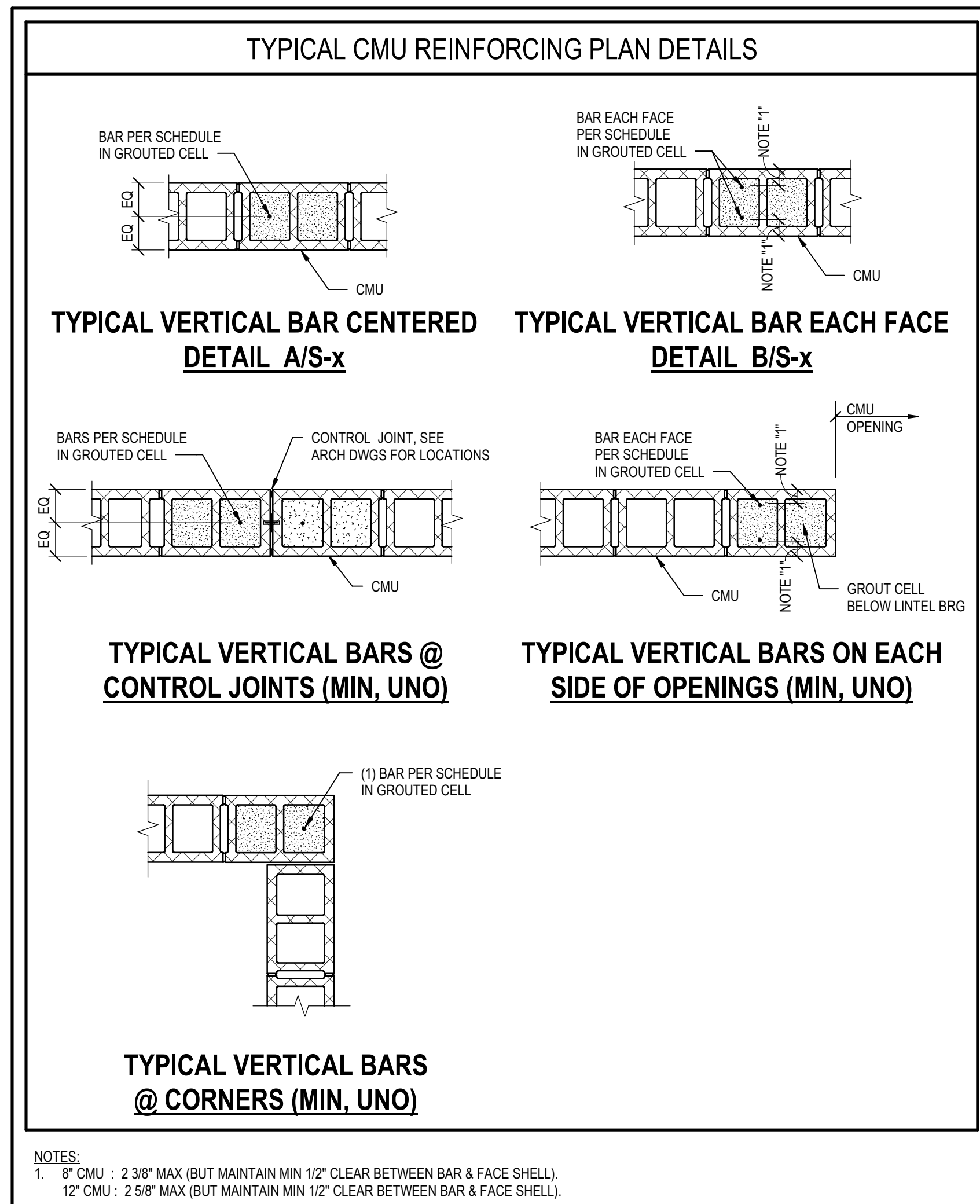
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LDA Project No. 23.47

TYPICAL FOUNDATION
DETAILS & SECTIONS

S201

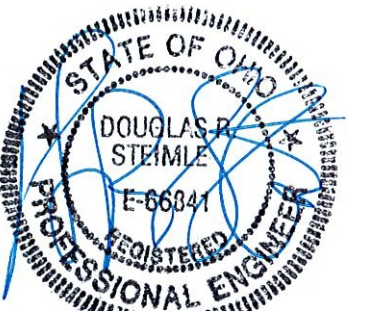
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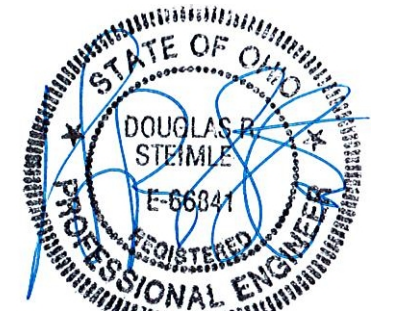
**FOUNDATION DETAILS &
SECTIONS
S211**

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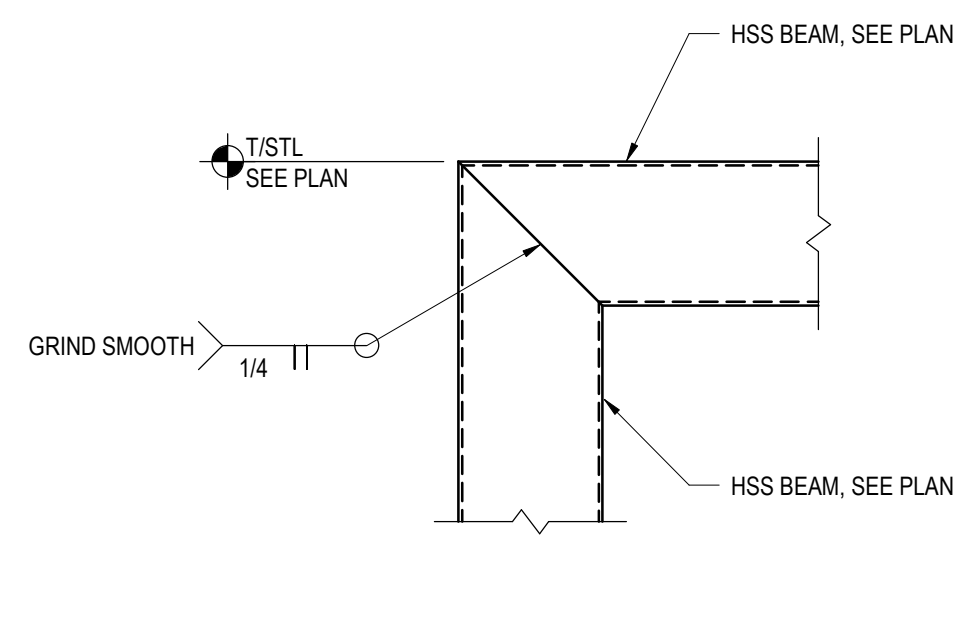
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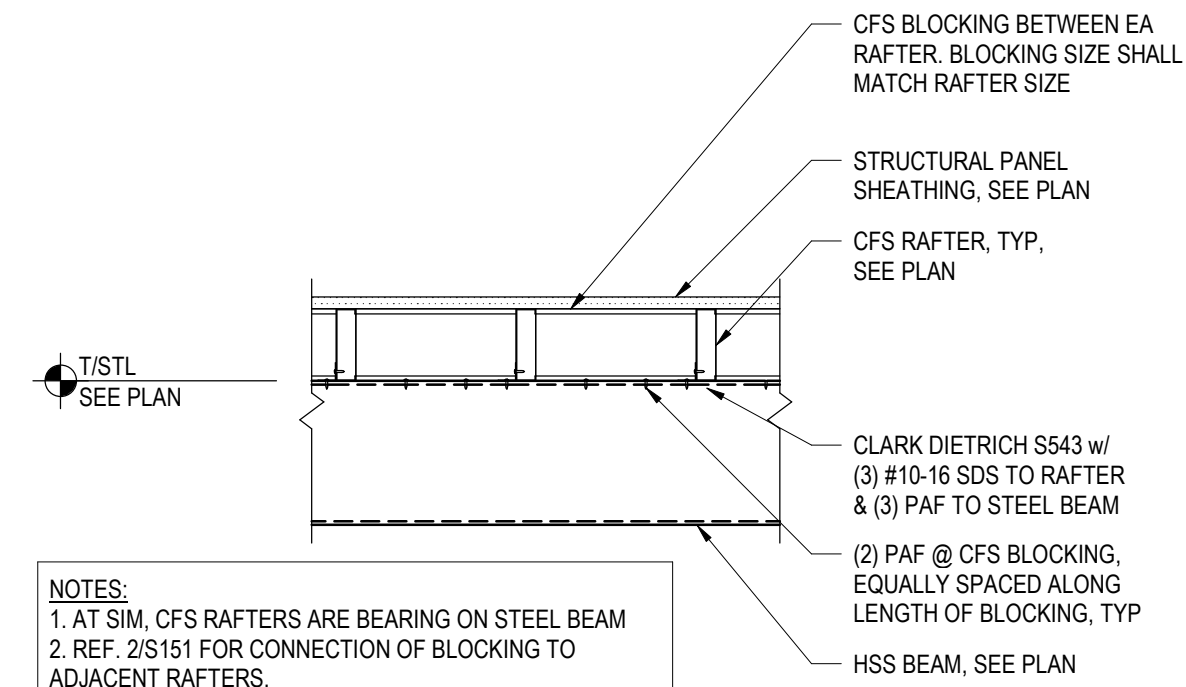
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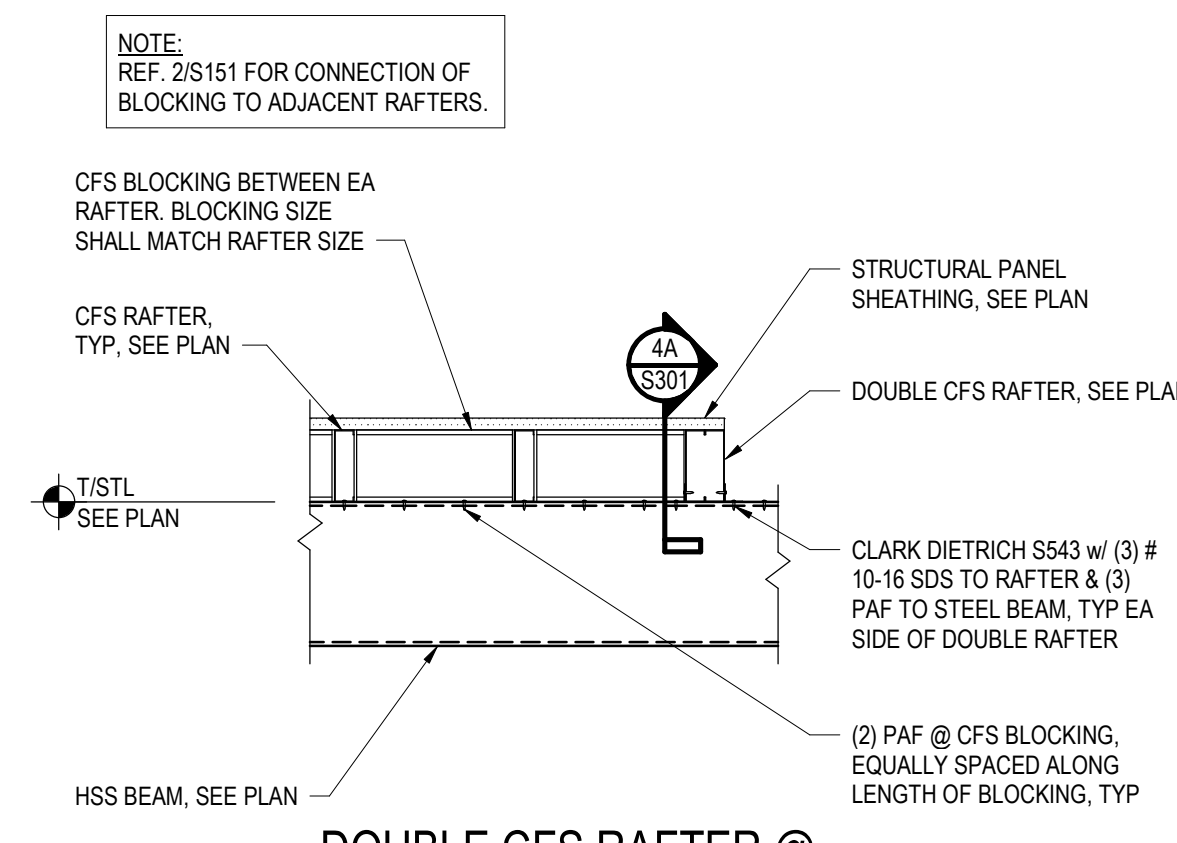


SECTION 1
3/4" = 1'-0" S301



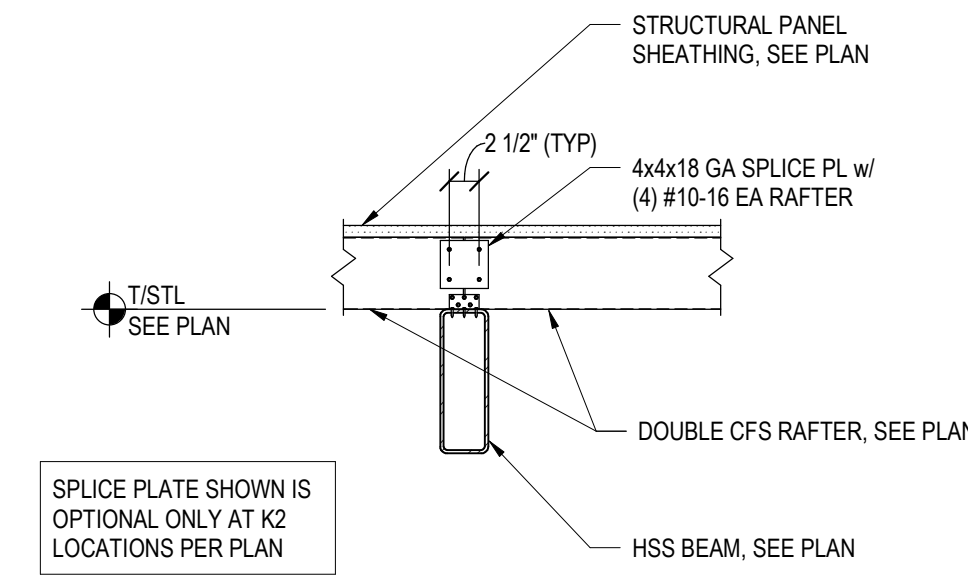
NOTES:
1. AT SIM, CFS RAFTERS ARE BEARING ON STEEL BEAM
2. REF. 2/S151 FOR CONNECTION OF BLOCKING TO ADJACENT RAFTERS.

CFS SUPPORTING STEEL BEAM CONDITION 2
3/4" = 1'-0" S301



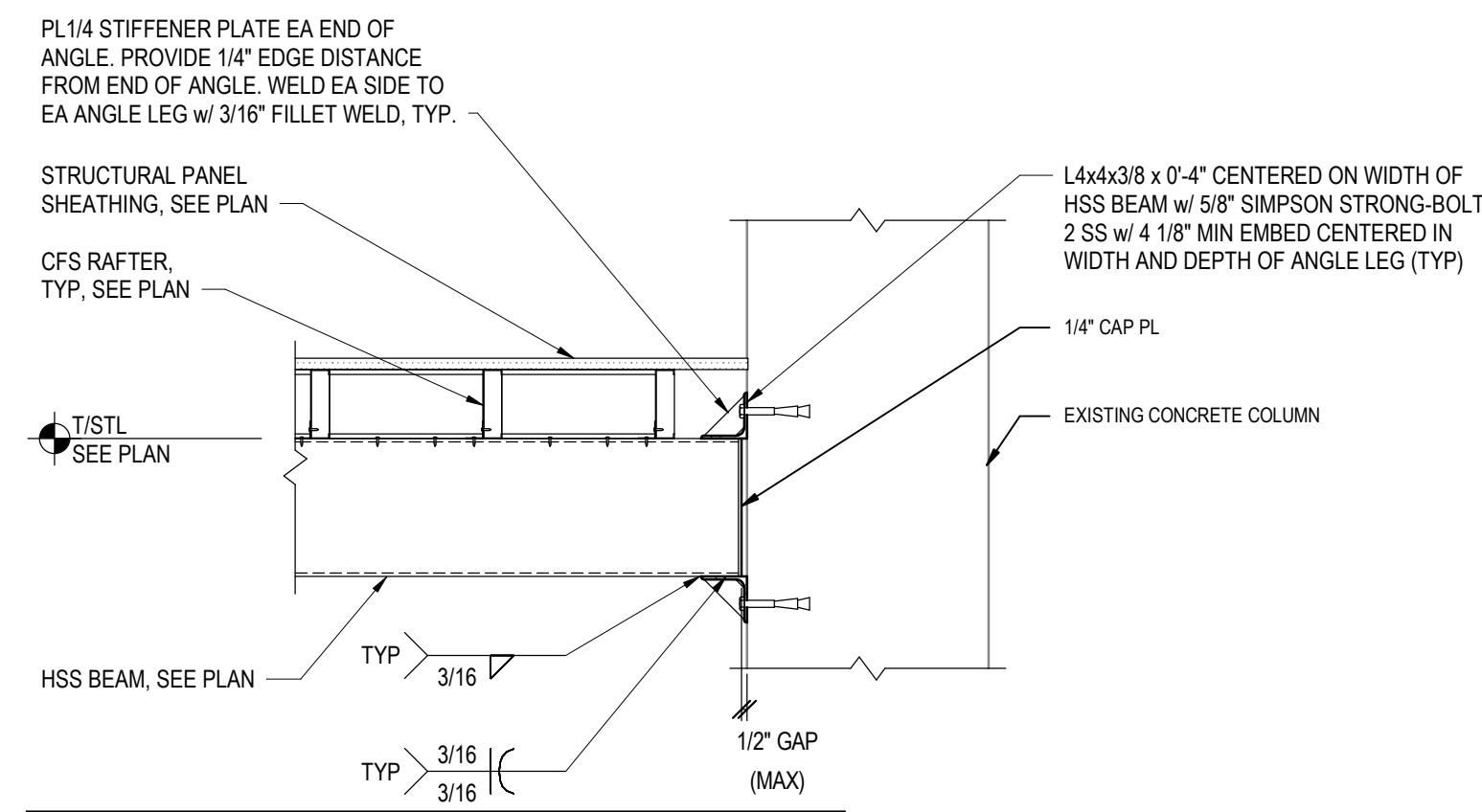
NOTE:
REF. 2/S151 FOR CONNECTION OF BLOCKING TO ADJACENT RAFTERS.

DOUBLE CFS RAFTER @ STEEL BEAM CONDITION 4
3/4" = 1'-0" S301



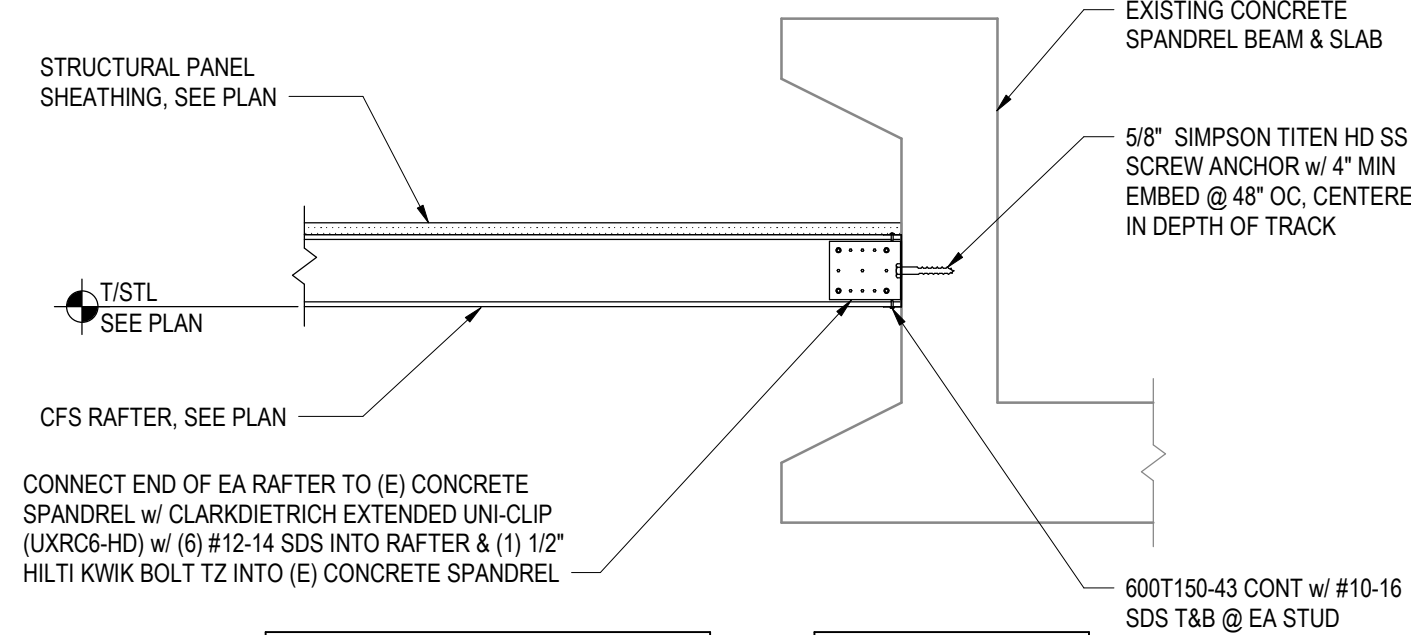
SPLICE PLATE SHOWN IS OPTIONAL ONLY AT K2 LOCATIONS PER PLAN

DOUBLE CFS RAFTER @ STEEL BEAM CONDITION 4A
3/4" = 1'-0" S301



NOTES:
1. CONTRACTOR TO LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING. AVOID ALL EXISTING REINFORCEMENT DURING INSTALLATION.
2. CONCRETE COLUMN REINF NOT SHOWN
3. SEE 2/S151 FOR CONNECTION OF BLOCKING TO ADJACENT RAFTERS.
4. SEE 2/S301 FOR CFS INFORMATION NOT SHOWN HERE.

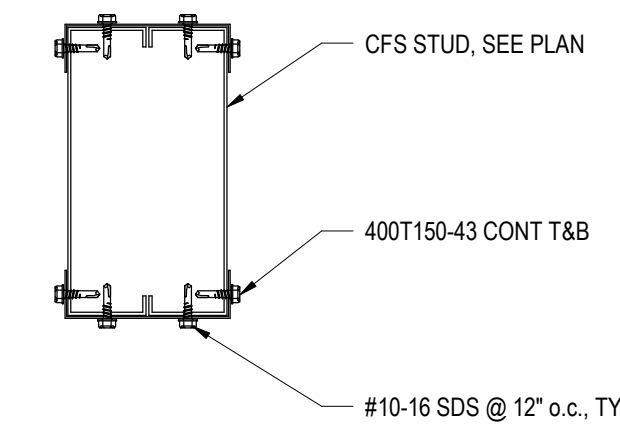
SECTION 5
3/4" = 1'-0" S301



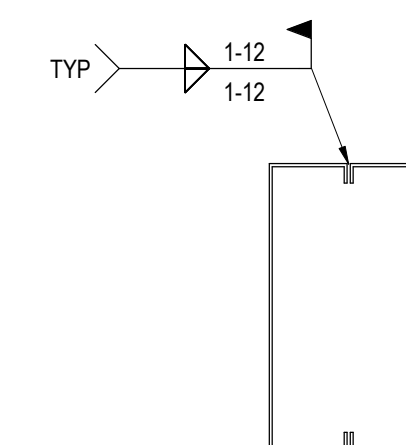
CONNECT END OF EA RAFTER TO (E) CONCRETE SPANDREL w/ CLARKDIETRICH EXTENDED UNI-CLIP (UXRC6-HD) w/ (6) #12-14 SDS INTO RAFTER & (1) 1/2\"/>

CONTRACTOR TO LOCATE EXISTING REINFORCEMENT PRIOR TO DRILLING. AVOID ALL EXISTING REINFORCEMENT DURING INSTALLATION.

SECTION 6
3/4" = 1'-0" S301



SCREW OPTION
NTS



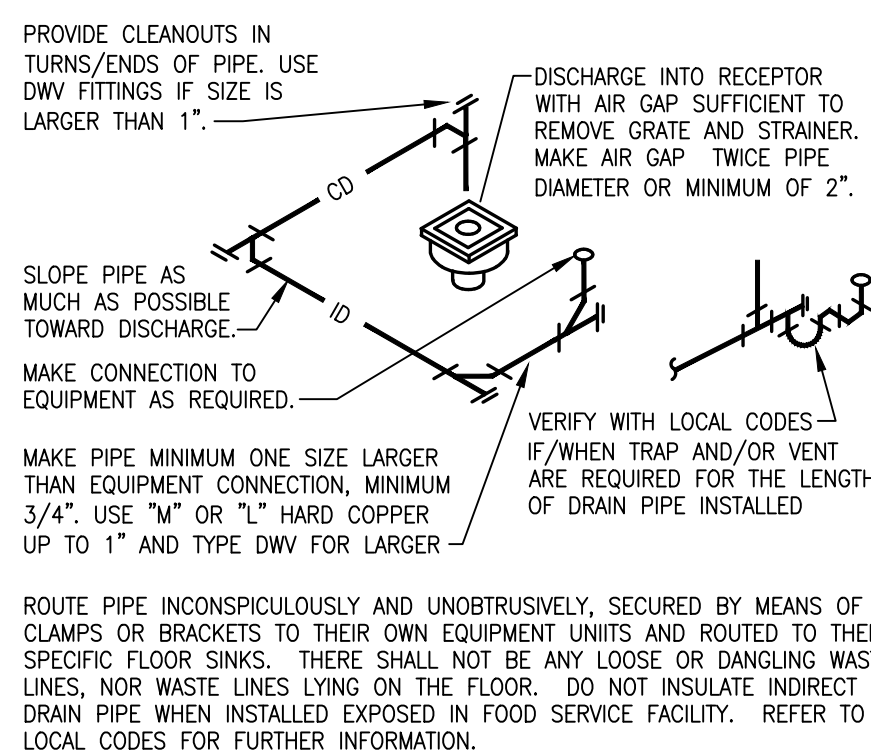
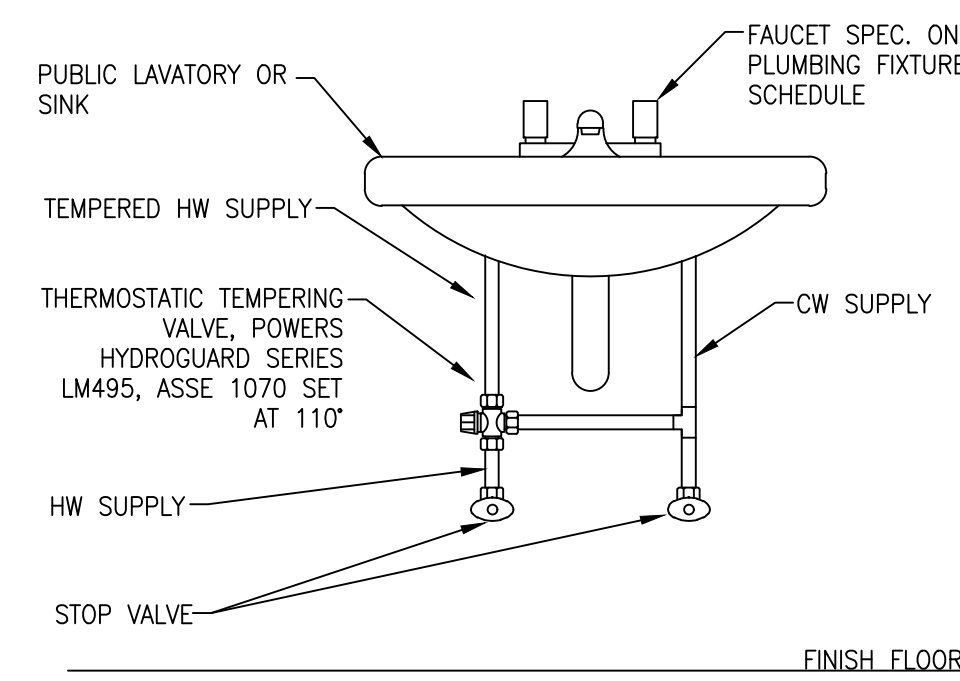
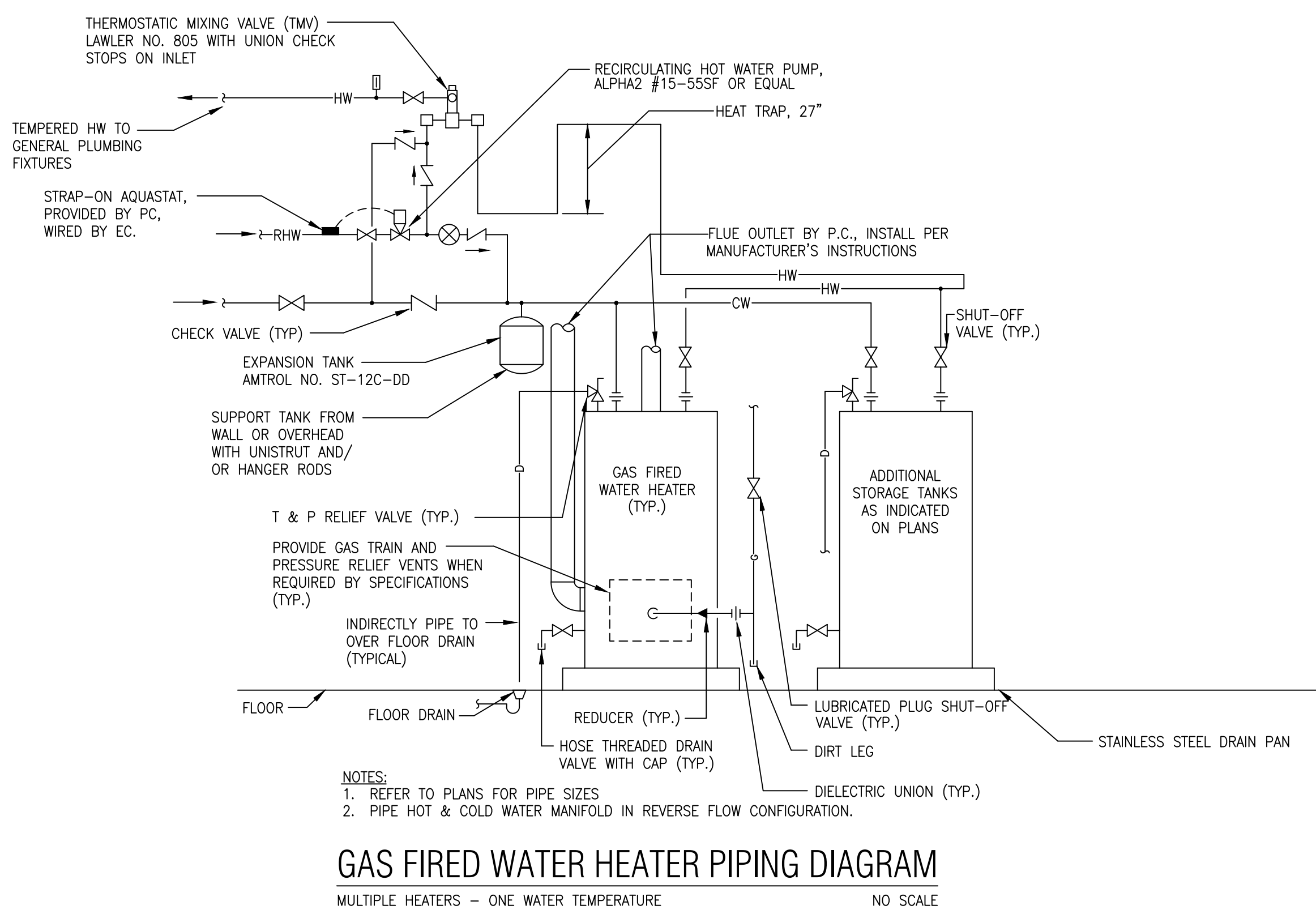
WELD OPTION
NTS

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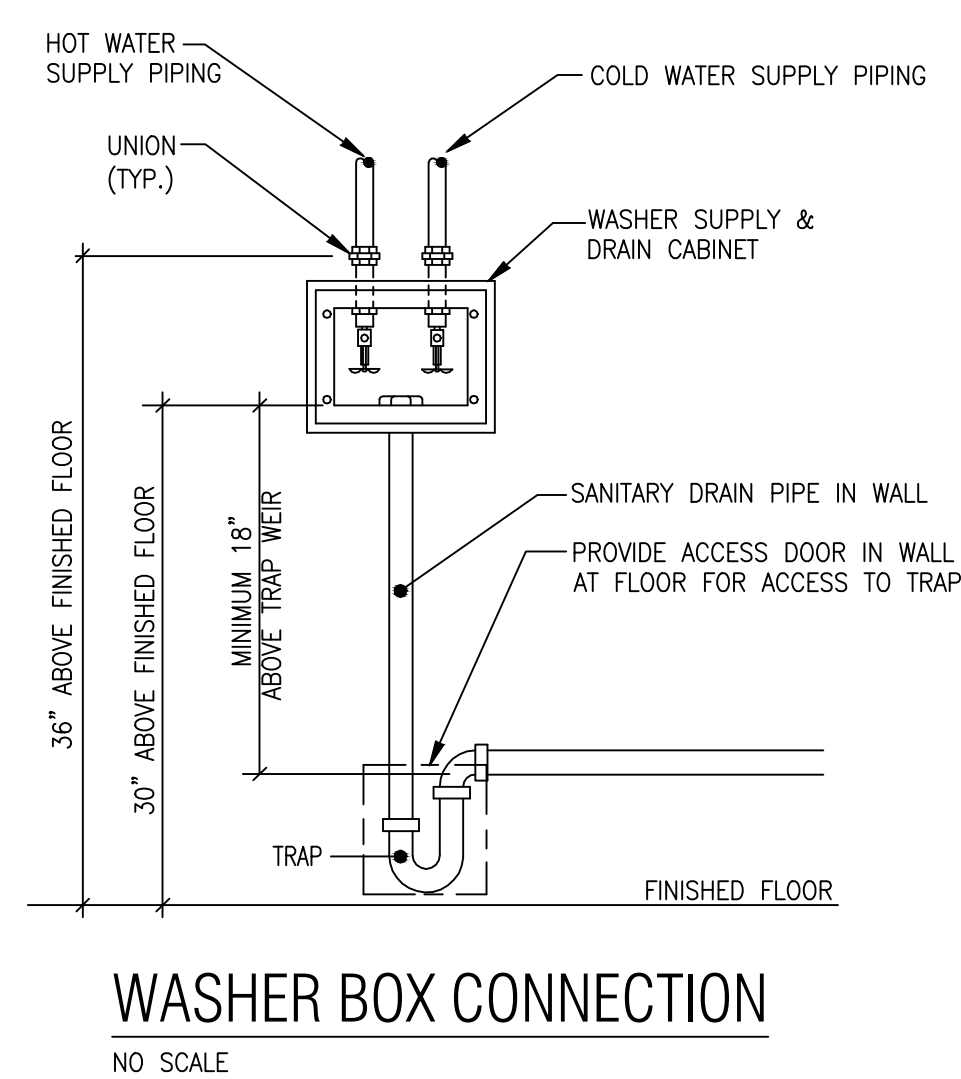
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TYPICAL FRAMING DETAILS & SECTIONS
S301



TYPICAL PENETRATION THROUGH RATED WALL
NO SCALE



| COMMON AREA PLUMBING FIXTURE CONNECTION SCHEDULE | | | | | | | | | |
|--|---------------------|--------------|-----------------------------|------|------|--------|--------|---|-----------------|
| TAG | FIXTURE | MANUFACTURER | MODEL NUMBER | HW | CW | SAN | VENT | DESCRIPTION | ELECTRICAL INFO |
| PL-1 | NOT USED | -- | -- | -- | -- | -- | -- | -- | -- |
| PL-2 | ADA WATER CLOSET | MANSFIELD | "ERIE" #1301 | -- | 1/2" | 4" | 2" | WALL-MOUNTED TOILET, ELONGATED FRONT, VITREOUS CHINA, LOW CONSUMPTION 1.28 GPF, ADA. FLUSH VALVE: SLOAN "ROYAL" MODEL #111, MANUAL PISTON-TYPE FLUSH VALVE, 1.28 GPF, VANDAL-RESISTANT CAP, WATERSENSE CERTIFIED. SEAT: MANSFIELD MODEL #1311295.000 WHITE, HEAVY-DUTY COMMERCIAL, ELONGATED, OPEN-FRONT PLASTIC SEAT. | -- |
| PL-3 | URINAL | MANSFIELD | "CASCADE" #410UHE | -- | 3/4" | 2" | 1-1/2" | WALL HUNG URINAL, VITREOUS CHINA, HALF-STALL WAS DOWN URINAL, TOP SPUD, WALL HANGER, ANGLE STOP, STRAINER, ADA. FLUSH VALVE: SLOAN "ROYAL" MODEL #186, MANUAL PISTON-TYPE URINAL FLUSH VALVE, 1.0 GPF, VANDAL-RESISTANT CAP. | -- |
| PL-4 | ADA LAVATORY | KOHLER | "CAXTON" #K-2209 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | UNDERMOUNT LAVATORY WITH REAR OVERFLOW, VITREOUS CHINA, MOUNTING KIT. FAUCET: MOEN "ALIGN" MODEL #6190, CHROME, 1-1/4" CENTERSET, 1/2" CONNECTIONS AND LEVER HANDLE, 1.2 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XL. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP. PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A. | -- |
| PL-5 | KITCHEN SINK | MOEN | "THE PREP SERIES" #GS20167B | 1/2" | 1/2" | 1-1/2" | 1-1/2" | SINGLE MOUNT UNDERMOUNT KITCHEN SINK, STAINLESS STEEL BRUSHED FINISHED, MOUNTING KIT. FAUCET: MOEN "ALIGN" MODEL #5967, CHROME, 4" CENTERSET, 1/2" CONNECTIONS AND LEVER HANDLE, 1.5 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. MIXING VALVE: ZURN "AQUA-GUARD" MODEL #ZW3870XL. FURNISH CHROME STOPS, SUPPLIES AND 1-1/4" WHEELCHAIR LAVATORY DRAIN WITH STAINLESS STEEL GRID AND P-TRAP. PROTECT 17 GAUGE CHROME TRAP AND SUPPLIES WITH A TRAP WRAP KIT SOOR AS MANUFACTURED BY BROCAR PRODUCTS INC. LAVATORY MOUNTING HEIGHT SHALL BE AS REQUIRED BY THE A.D.A. | -- |
| SS-1 | SERVICE SINK | E.L. MUSTEE | 19F | 1/2" | 1/2" | 1-1/2" | 1-1/2" | 20"x24"x14"-3/8" FLOOR MOUNTED UTILITY TUB, THERMOPLASTIC. FAUCET: E.L. MUSTEE MODEL #93.600, LEVER HANDLES, 1/2" CONNECTIONS, 7" SWING SPOUT WITH HOSE END. | -- |
| DW-1 | DISHWASHER | BY ARCHITECT | BY ARCHITECT | HOSE | -- | HOSE | -- | DISHWASHER SHALL BE PROTECTED FROM BACKFLOW. | -- |
| WB-1 | WASHING MACHINE BOX | OATEY | 38541 | 1/2" | 1/2" | 2" | 1-1/2" | OATEY 38541 OR EQUAL FOR INSTALLATIONS IN NON-RATED WALLS. PROVIDE OATEY 38471 OR EQUAL FIRE RATED WASHING MACHINE BOX FOR INSTALLATIONS IN RATED WALLS. | -- |
| DF-1 | DRINKING FOUNTAIN | ELKAY | LZSTL8WSSP-PF | -- | 1/2" | 1-1/2" | 1-1/2" | BARRIER FREE BI-LEVEL DRINKING FOUNTAIN WITH WATER BOTTLE FILLER. PROVIDE CANE GUARD. | -- |
| WH-1 | GAS WATER HEATER | A.O. SMITH | BTH-500 | 3/4" | 3/4" | -- | -- | 120 GALLON CAPACITY, 500 MBH INPUT, 576 GPH RECOVERY RATE @ 100°F RISE. PROVIDE COMPLETE WITH T&P RELIEF VALVE, VACUUM RELIEF VALVE, DRAIN VALVE, AND SAFETY DRAIN PAN. PROVIDE WITH 100 GALLON STORAGE TANK. PROVIDE COMPLETE WITH HOT WATER RECIRCULATION PUMP, GRUNDFOS #UP15-293U, 1/25 HP, 115V, AND ADJUSTAR. INSTALL PER MANUFACTURER'S INSTRUCTIONS. | 120V-1φ |
| FD-1 | FLOOR DRAIN | SIoux CHIEF | 863-425NR | -- | -- | 3" | -- | MEDIUM DUTY, NICKEL-BRONZE, HEEL-PROOF NICKEL RING AND STRAINER. PVC HOUSING AND FLASHING. INSTALL WITH RECTORSEAL "SURESEAL" TRAP SEALER. | -- |
| CO-1 | FLOOR CLEANOUT | ZURN | CO2450 | -- | -- | 3" | -- | GENERAL PURPOSE CLEANOUT. | -- |
| CO-2 | EXTERIOR CLEANOUT | ZURN | Z1402-HD | -- | -- | 3" | -- | HEAVY-DUTY TUF-TOP NON-ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS AND WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SCORATED SECURED COVER & FRAME. | -- |
| CO-3 | WALL CLEANOUT | ZURN | Z1441 | -- | -- | 3" | -- | WALL CLEANOUT WITH SMOOTH ACCESS COVER. PROVIDE WITH NO-HUB COUPLING FOR FINAL CONNECTION. | -- |
| CO-4 | HORIZONTAL CLEANOUT | ZURN | CO2490 | -- | -- | 3" | -- | COUNTERSUNK CLEANOUT PLUG, PVC TAPER THREAD, COUNTERSUNK CLEANOUT PLUG | -- |

REMARKS:
1) THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL HARDWARE AND APPURTENANCES FOR A COMPLETE INSTALLATION OF PLUMBING FIXTURES/EQUIPMENT PER APPLICABLE CODES AND MANUFACTURER.
2) ALL PLUMBING FIXTURES ARE TO BE WATERSENSE CERTIFIED WHERE APPLICABLE.

| UNIT FIXTURE CONNECTION SCHEDULE | | | | | | | | | |
|----------------------------------|------------------|--------------|-----------------------------|------|------|--------|--------|--|-----------------|
| TAG | FIXTURE | MANUFACTURER | MODEL NUMBER | HW | CW | SAN | VENT | DESCRIPTION | ELECTRICAL INFO |
| PL-A | KITCHEN SINK | MOEN | "THE PREP SERIES" #GS18155 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | UNDERMOUNT SINK, SINGLE BOWL, #18 GAUGE STAINLESS STEEL, MOUNTING CLIPS, DRAIN, 3 HOLE, 4" CENTERS. FAUCET: CFG "EDGESTONE" MODEL #46200, SINGLE HANDLE, 1/2" CONNECTIONS, 7" SPOUT, 1.0 GPM, ADA COMPLIANT. | -- |
| PL-A1 | ADA KITCHEN SINK | MOEN | "THE PREP SERIES" #GS18156B | 1/2" | 1/2" | 1-1/2" | 1-1/2" | UNDERMOUNT SINK, SINGLE BOWL, #18 GAUGE STAINLESS STEEL, MOUNTING CLIPS, DRAIN, 3 HOLE, 4" CENTERS. FAUCET: CFG "EDGESTONE" MODEL #46200, SINGLE HANDLE, 1/2" CONNECTIONS, 7" SPOUT, 1.0 GPM, ADA COMPLIANT. | -- |
| PL-B | ADA LAVATORY | CFG | "SLATE" #40051 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | FAUCET: CFG "EDGESTONE" MODEL #40051, SINGLE HANDLE, 1/2" CONNECTIONS, 4" SPOUT, 1.2 GPM, ADA COMPLIANT. | -- |
| PL-C1 | ADA SHOWER | CFG | "SLATE" #48002CGR | 1/2" | 1/2" | 1-1/2" | 1-1/2" | ACCESSIBLE SHOWER PAN TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. PROVIDE ADA GRAB BAR AND ACCESSORIES. ENCLOSURE WILL BE TILED BY ARCHITECT. IRM: CFG MODEL #48002CGR SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE WITH HAND-HELD SHOWER SYSTEM, 1.5 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. | -- |
| PL-D | BATH TUB | OASIS | "VURSA" #TS-6032 | 1/2" | 1/2" | 1-1/2" | 1-1/2" | ACCESSIBLE SHOWER PAN TO BE SELECTED BY ARCHITECT. PROVIDE SHOWER DRAIN AND SHOWER VALVE. PROVIDE ADA GRAB BAR AND ACCESSORIES. ENCLOSURE WILL BE TILED BY ARCHITECT. IRM: CFG MODEL #48003CGR SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, 1.75 GPM, ADA COMPLIANT, WATERSENSE CERTIFIED. | -- |
| PL-E1 | ADA WATER CLOSET | STREAM33 | #S33TBE12-ADA/S33TANK-L/R | -- | 1" | 4" | 2" | RIGHT HEIGHT TOILET, ELONGATED FRONT, VITREOUS CHINA, TWO PIECE TOILET, LOW CONSUMPTION 1.28 GPF, ADA COMPLIANT, WATERSENSE CERTIFIED. SEAT: STREAM33 MODEL #S33-MTC07048-WH, ELONGATED SLOW CLOSE SOLID PLASTIC SEAT AND COVER. | -- |

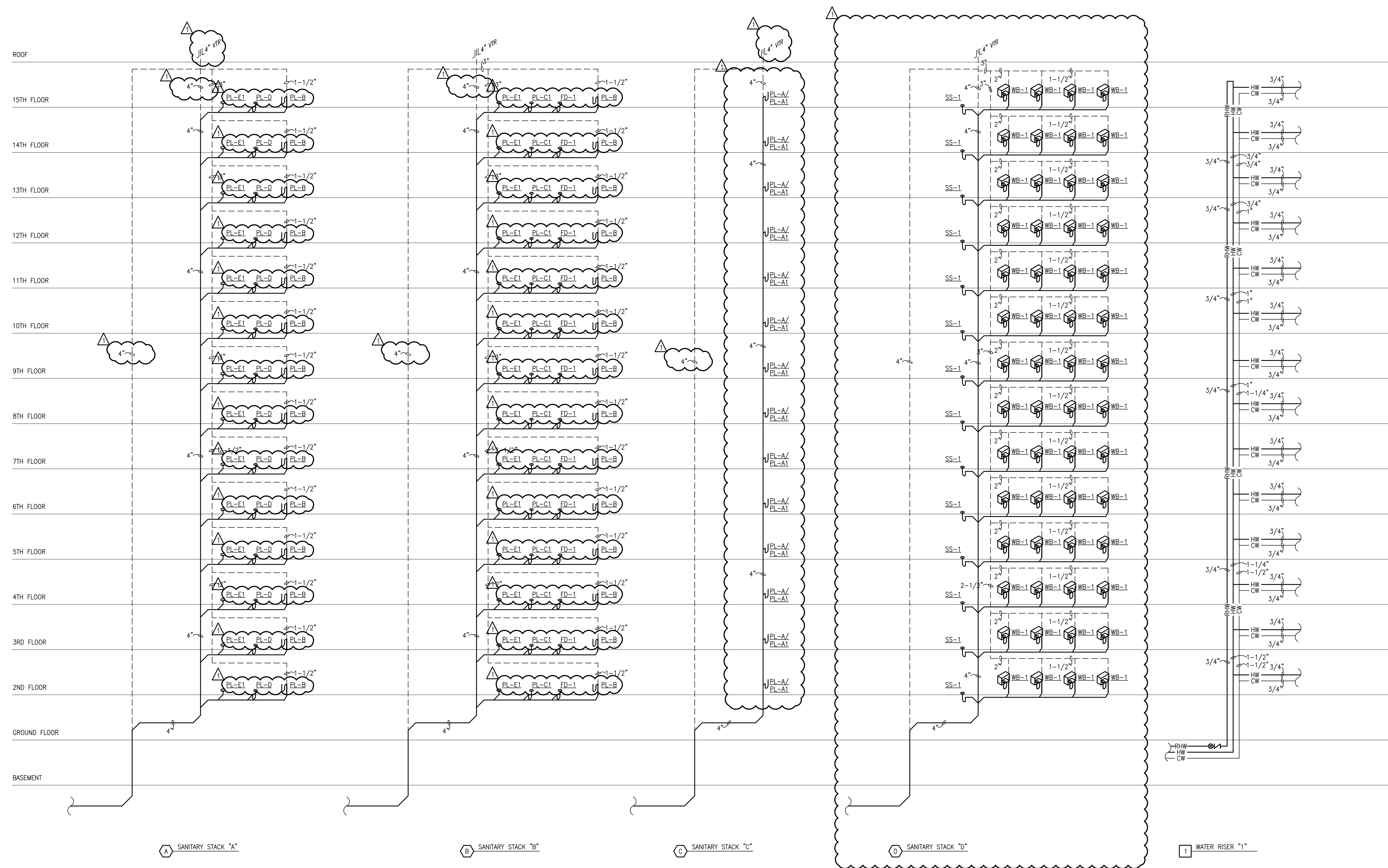
REMARKS:
1) THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL HARDWARE AND APPURTENANCES FOR A COMPLETE INSTALLATION OF PLUMBING FIXTURES/EQUIPMENT PER APPLICABLE CODES AND MANUFACTURER.

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TYPICAL SANITARY STACKS AND WATER RISERS
SCALE: NONE

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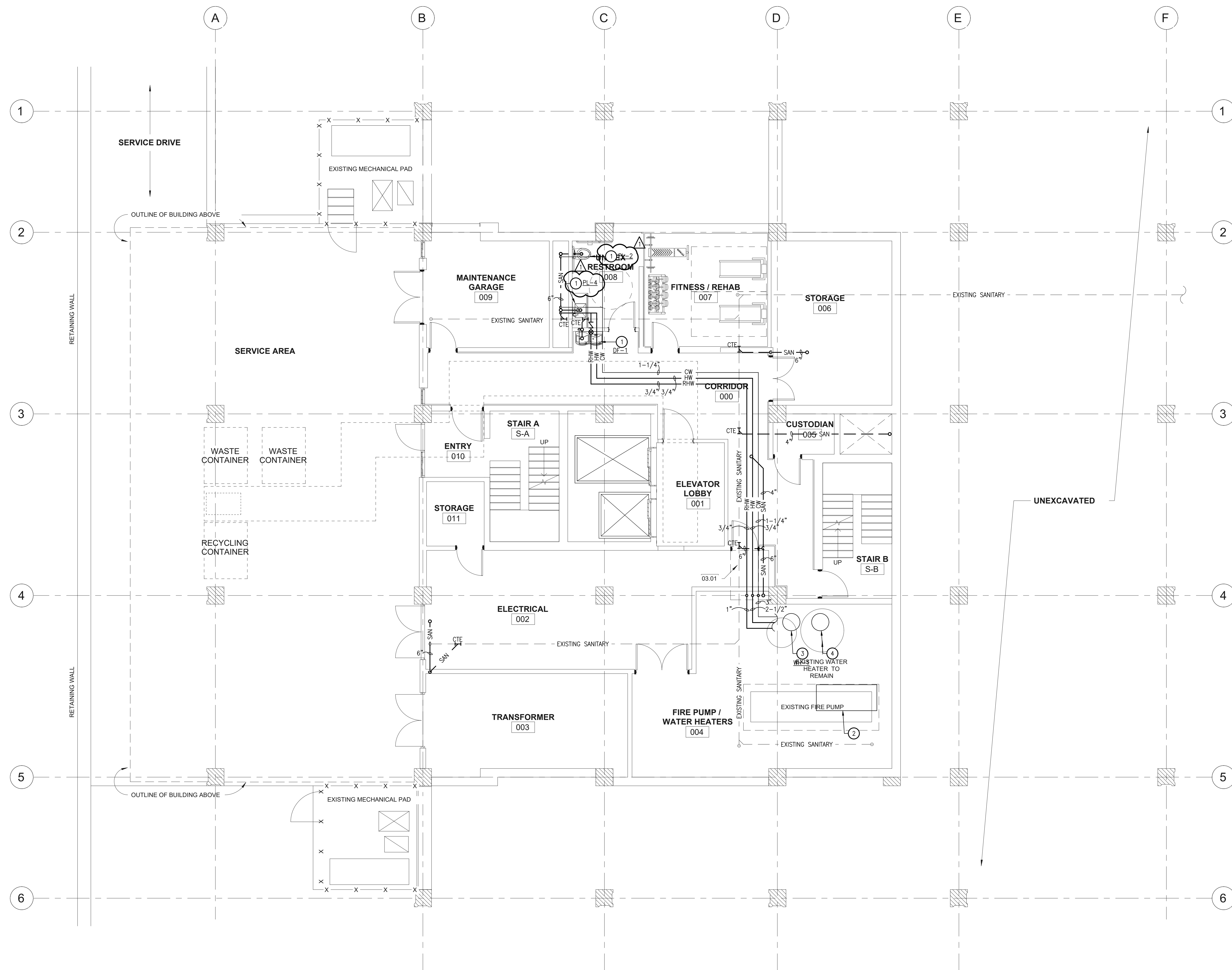
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GENERAL PLUMBING NOTE:
 ALL HOT WATER, COLD WATER, SANITARY, AND VENT PIPING SHALL BE REMOVED AND REPLACED WITH NEW.

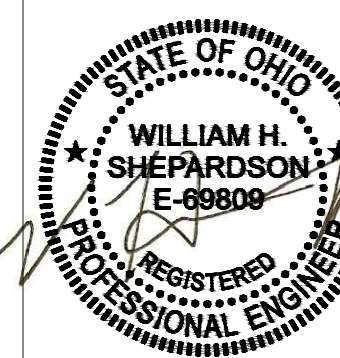
CODED NOTES:

- ① EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED WITH NEW.
- ② EXISTING FIRE PUMP TO REMAIN.
- ③ EXISTING WATER HEATER TO BE REMOVED AND REPLACED WITH NEW. ALL EXISTING PIPING TO BE REMOVED AND REPLACED WITH NEW.
- ④ EXISTING STORAGE TANK TO BE REMOVED AND REPLACED WITH NEW.



1 BASEMENT PLUMBING PLAN
 P1.01 SCALE: 3/16" = 1'-0" NORTH

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LDA Project No.23.47

BASEMENT PLUMBING PLAN

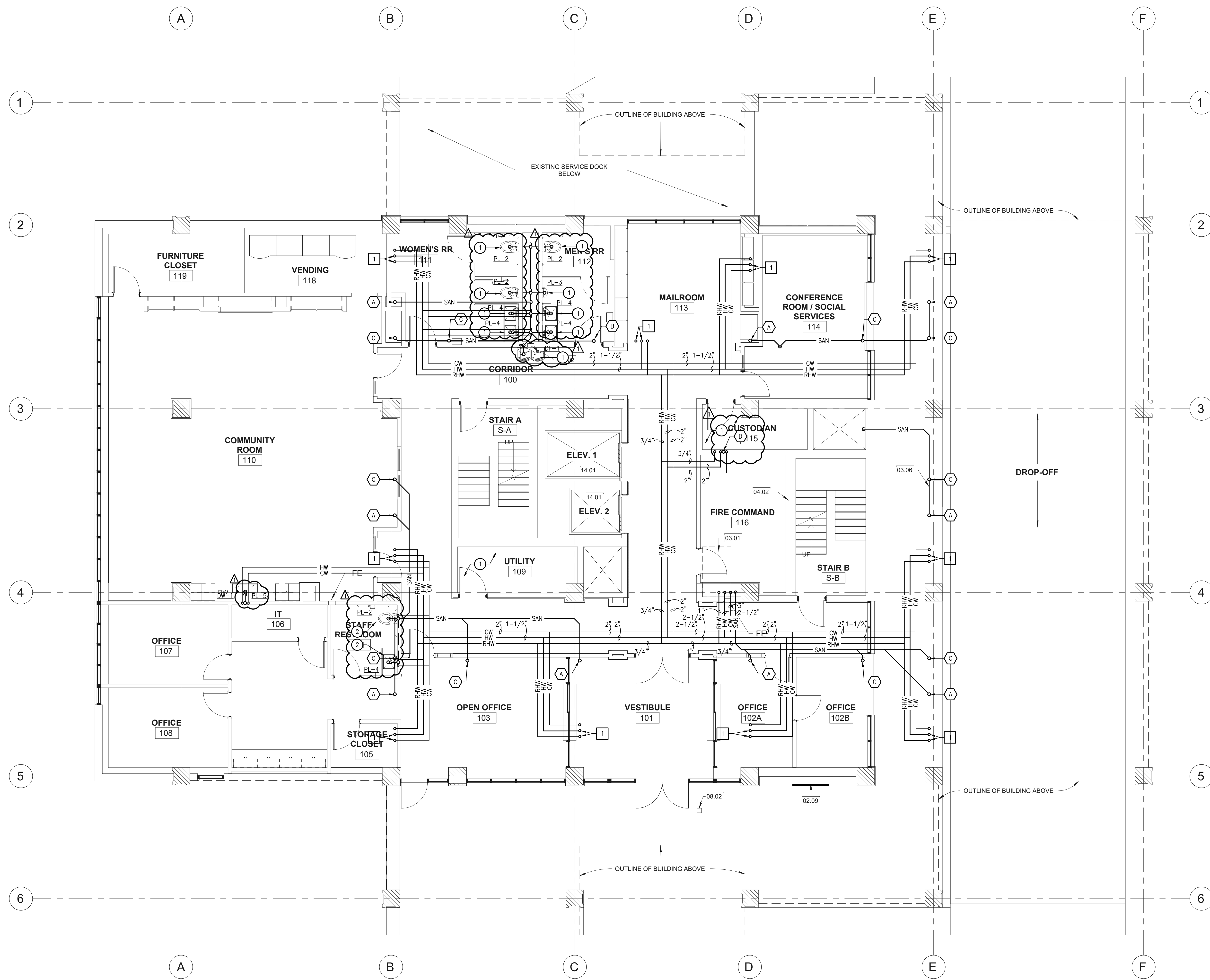
P1.01

GENERAL PLUMBING NOTE:
ALL HOT WATER, COLD WATER, SANITARY, AND VENT PIPING SHALL BE REMOVED AND REPLACED WITH NEW.

GENERAL PLUMBING NOTE:
ALL PIPING LOCATED OUTSIDE OF THE THERMAL ENVELOPE SHALL BE HEAT TRACED OR INSULATED.

CODED NOTES:

- ① EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED WITH NEW.
- ② INSTALL NEW PLUMBING FIXTURE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH ALL NECESSARY ACCOUTREMENTS FOR A COMPLETE INSTALLATION. EXTEND NEW HOT WATER, COLD WATER, SANITARY AND VENT PIPING TO NEAREST RESPECTIVE MAIN, STACK OR RISER.



① GROUND FLOOR PLUMBING PLAN
P1.02 SCALE: 3/16" = 1'-0"
NORTH

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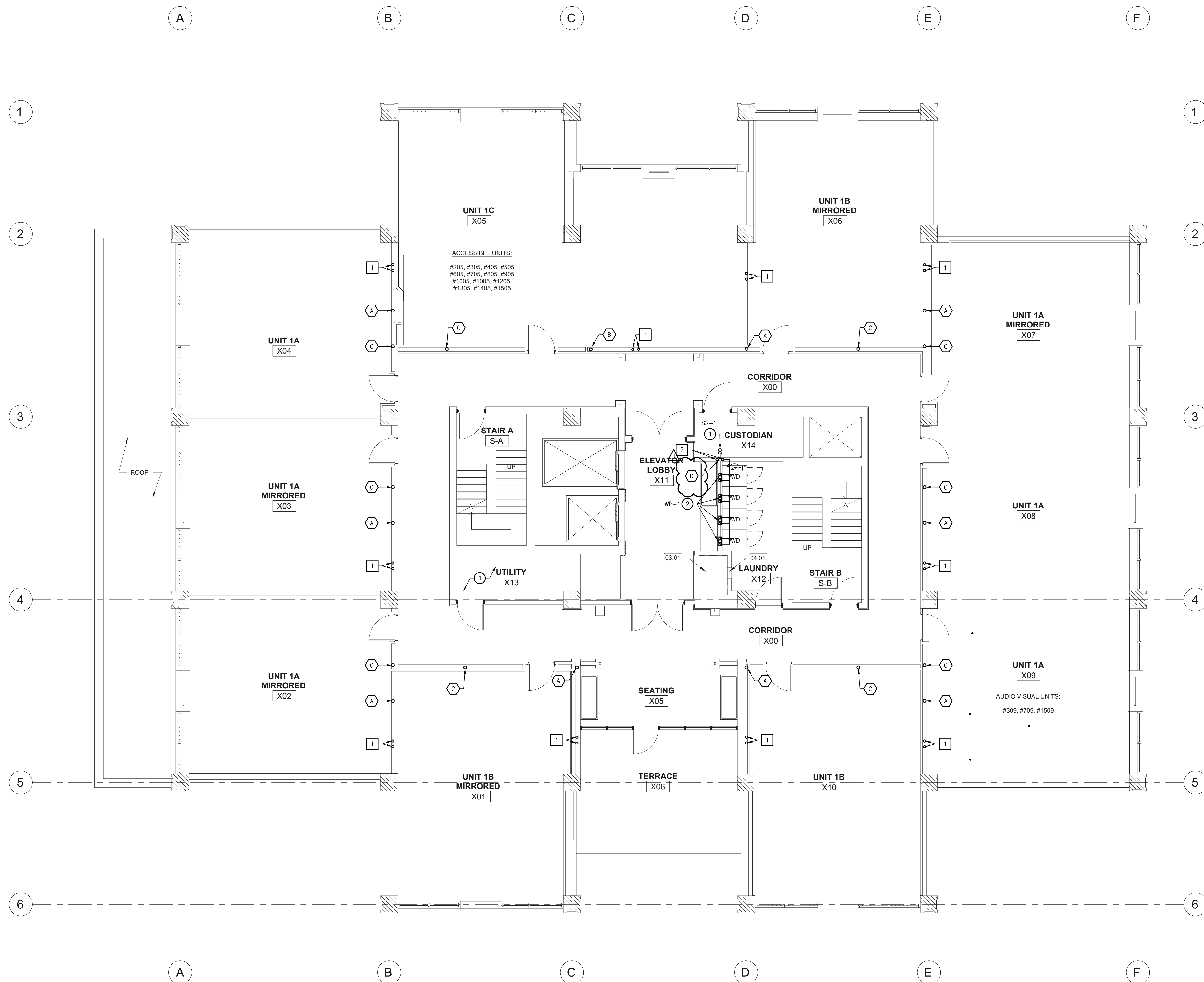
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LDA Project No.23.47
GROUND FLOOR PLUMBING PLAN
P1.02

GENERAL PLUMBING NOTE:
 ALL HOT WATER, COLD WATER, SANITARY, AND VENT PIPING SHALL BE REMOVED AND REPLACED WITH NEW.

CODED NOTES:

- ① EXISTING PLUMBING FIXTURE TO BE REMOVED AND REPLACED WITH NEW.
- ② EXISTING LAUNDRY HOOKUPS TO BE REMOVED AND REPLACED WITH NEW.



2ND-15TH FLOOR PLUMBING PLAN
 P1.03/ SCALE: 3/16" = 1'-0"
 NORTH

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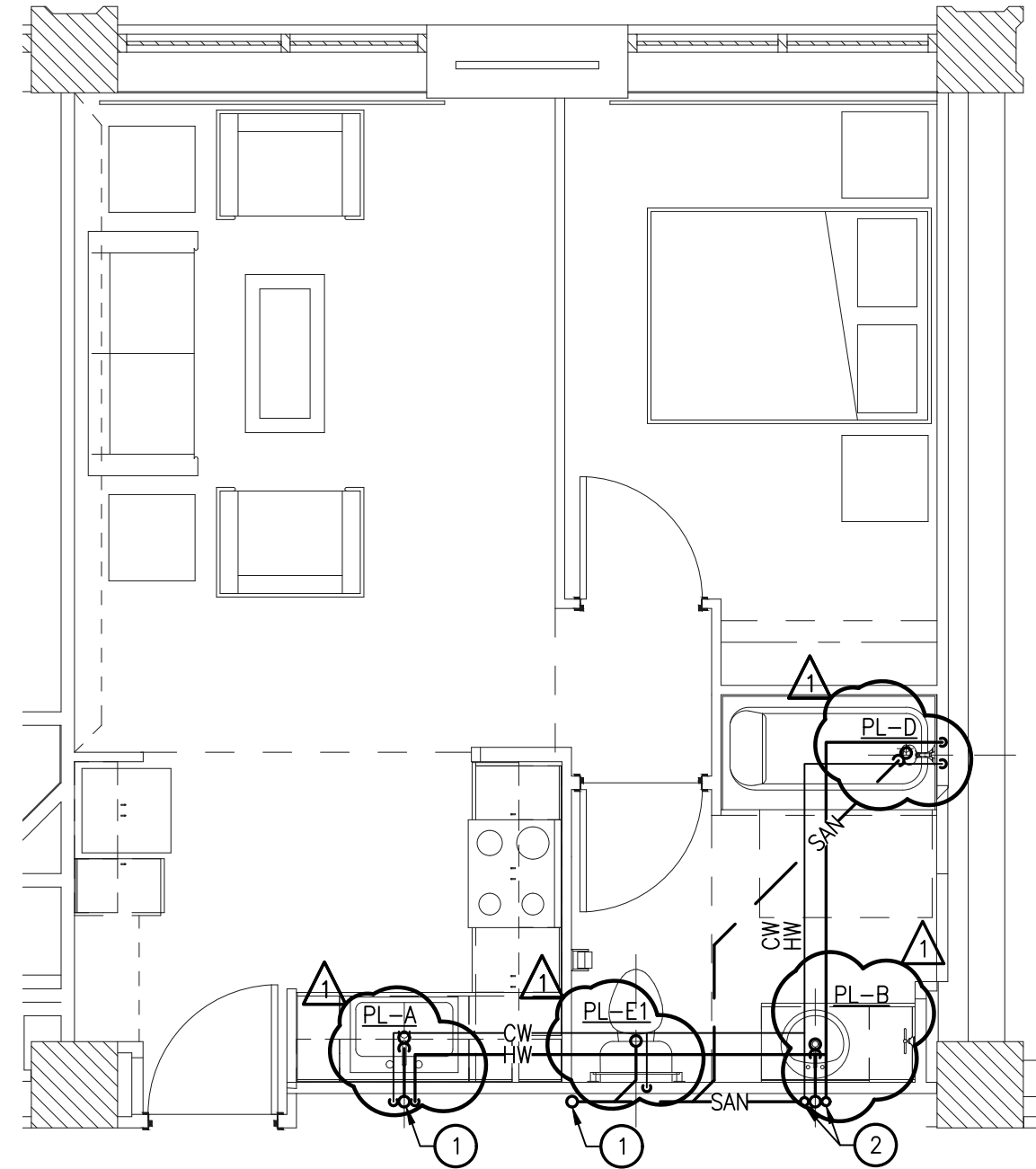


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GENERAL PLUMBING NOTE:
 ALL HOT WATER, COLD WATER, SANITARY, AND VENT PIPING SHALL BE REMOVED AND REPLACED WITH NEW.

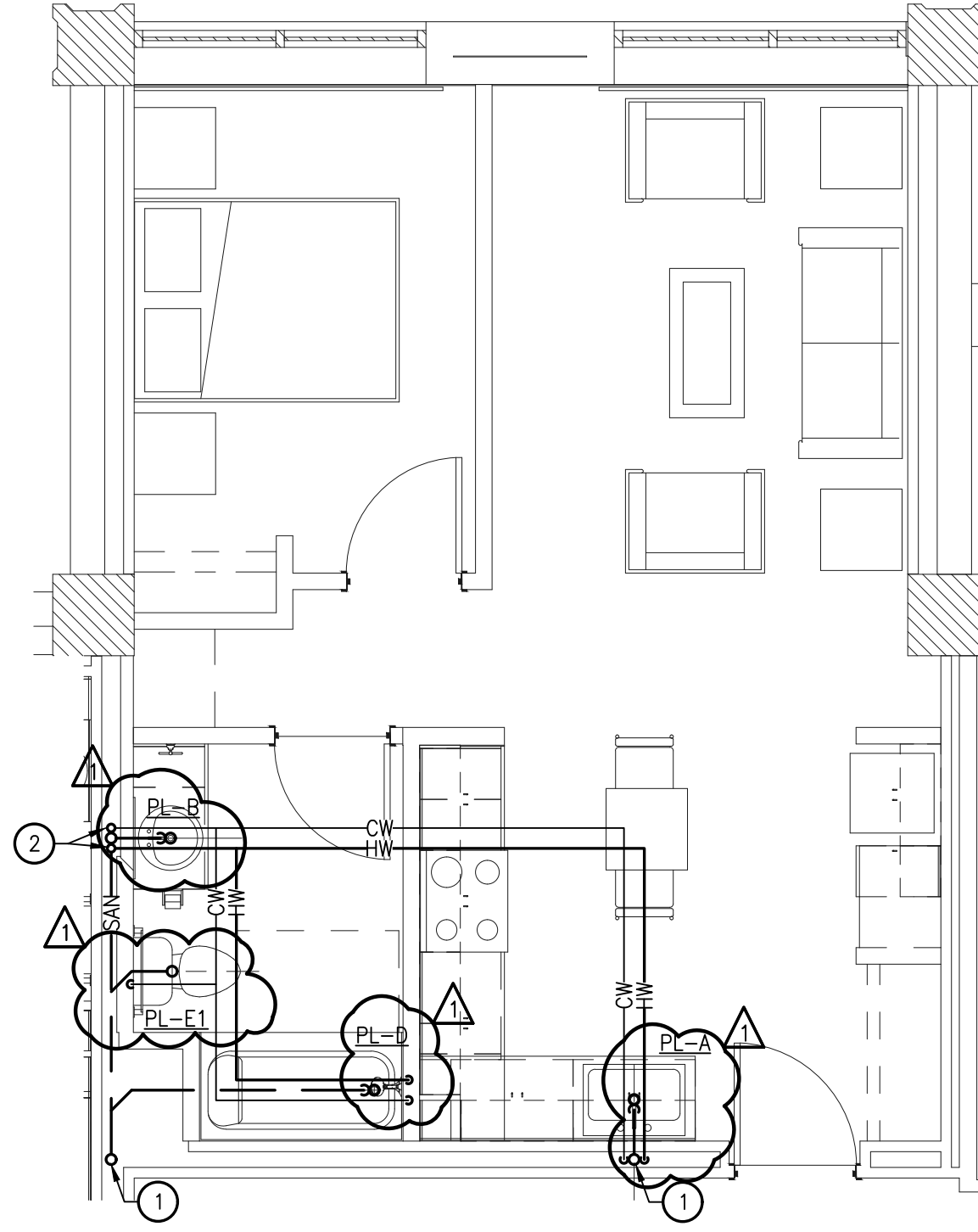
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1 UNIT TYPE 1A PLUMBING PLAN
 P2.01 SCALE: NONE

CODED NOTES:

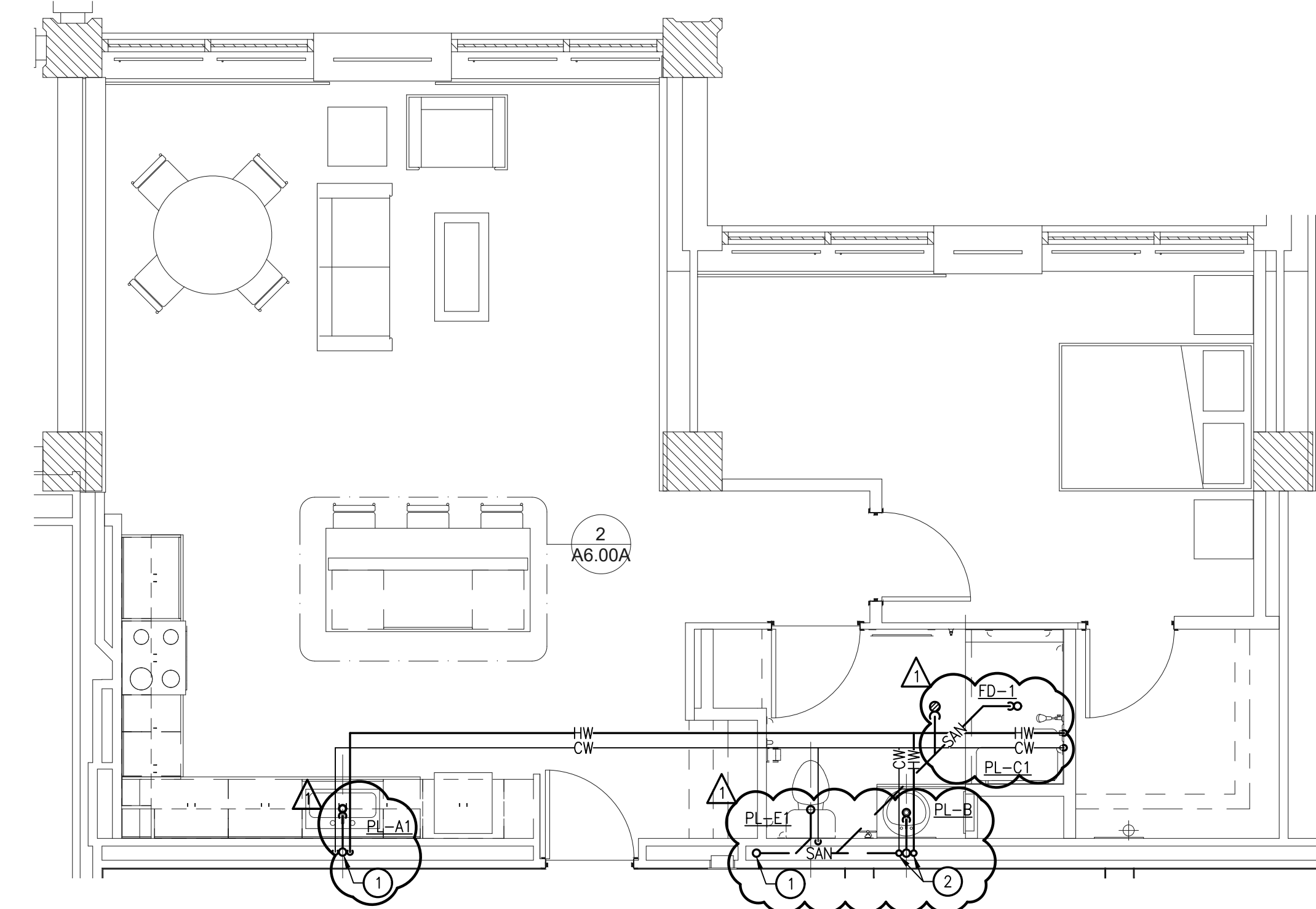
- 1 PROVIDE NEW SANITARY STACK. SEE OVERALL PLANS FOR CONTINUATION.
- 2 PROVIDE NEW HOT WATER AND COLD WATER RISERS. SEE OVERALL PLANS FOR CONTINUATION. EXTEND 3/4" HOT WATER AND COLD WATER BRANCHES INTO APARTMENT.



2 UNIT TYPE 1B PLUMBING PLAN
 P2.01 SCALE: NONE

CODED NOTES:

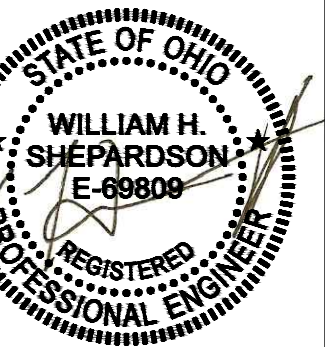
- 1 PROVIDE NEW SANITARY STACK. SEE OVERALL PLANS FOR CONTINUATION.
- 2 PROVIDE NEW HOT WATER AND COLD WATER RISERS. SEE OVERALL PLANS FOR CONTINUATION. EXTEND 3/4" HOT WATER AND COLD WATER BRANCHES INTO APARTMENT.



3 UNIT TYPE 1C PLUMBING PLAN
 P2.01 SCALE: NONE

CODED NOTES:

- 1 PROVIDE NEW SANITARY STACK. SEE OVERALL PLANS FOR CONTINUATION.
- 2 PROVIDE NEW HOT WATER AND COLD WATER RISERS. SEE OVERALL PLANS FOR CONTINUATION. EXTEND 3/4" HOT WATER AND COLD WATER BRANCHES INTO APARTMENT.



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LDA Project No.23.47

TYPICAL UNIT PLUMBING PLAN

P2.01

MECHANICAL SPECIFICATIONS

1. GENERAL PROVISIONS

A. THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDAS, AND DIVISION 1 ARE A PART OF THIS SPECIFICATION. CONTRACTORS AND SUBCONTRACTORS SHALL EXAMINE SAME AS WELL AS OTHER DIVISIONS OF THE SPECIFICATIONS WHICH AFFECT WORK UNDER THIS DIVISION.

B. THIS CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, SUPPLIES, SERVICES, AND SHALL PERFORM ALL WORK COMPLETE AND IN STRICT ACCORDANCE WITH THIS SPECIFICATION AND APPLICABLE DRAWINGS. ANY DEVIATIONS SHALL BE CLEARLY DEFINED AND ITEMIZED IN ACCORDANCE WITH SECTION 10.7 OF THIS SPECIFICATION.

C. THIS CONTRACTOR IS INSTRUCTED TO READ CAREFULLY THE SPECIFICATIONS FOR ALL PARTS OF THE WORK, WHICH INCLUDE THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, STRUCTURAL, AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS THAT ARE PART OF THE CONTRACT DOCUMENTS.

D. ALL ITEMS OF LABOR, MATERIAL, AND EQUIPMENT NOT SPECIFICALLY MENTIONED HEREIN OR SHOWN ON PLAN, BUT INCIDENTAL TO, OR REQUIRED FOR THE COMPLETE INSTALLATION AND PROPER OPERATION OF THE WORK, SHALL BE FURNISHED AS IF CALLED FOR IN DETAIL BY THE SPECIFICATIONS OR DRAWINGS.

E. AS USED IN THIS SPECIFICATION, "PROVIDE" MEANS "FURNISH AND INSTALL." "FURNISH" MEANS "TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT" AND "INSTALL" MEANS "TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY FOR PROPER INSTALLATION PER CODES AND MANUFACTURER'S REQUIREMENTS, TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT."

2. PERMITS, CODES, INSPECTIONS AND TESTS

A. THE HVAC CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE PROSECUTION OF HVAC WORK. ALL PERMITS AND CERTIFICATES OF INSPECTION AND APPROVAL SIGNED BY THE CONTROLLING BUILDING DEPARTMENT SHALL BECOME PROPERTY OF THE OWNER

B. DRAWINGS INDICATE THE MINIMUM DESIGN REQUIREMENTS – NATIONAL, STATE, AND LOCAL CODES SHALL BE FOLLOWED, COMPLY WITH THE LATEST EDITIONS OF THE STATE MECHANICAL CODE, NFPA, SMACNA, AND ASHRAE STANDARDS. THE CONTRACTOR SHALL INCLUDE THE COST OF SATISFYING SUCH CODES AND STANDARDS IN THE BID.

C. FOLLOWING COMPLETION OF THE HVAC WORK, FURNISH TO THE OWNER, IN DUPLICATE, CERTIFICATES OF INSPECTION AND APPROVAL BY REGULATORY AGENCIES HAVING JURISDICTION.

(1) DEMONSTRATE TO THE OWNER'S SATISFACTION THE PROPER OPERATION OF EACH OF THE SYSTEMS COMPRISING THIS CONTRACT BEFORE FINAL PAYMENT.

(2) IMMEDIATELY CORRECT ANY WORK FOUND AT VARIANCE WITH THESE SPECIFICATIONS, THE NATIONAL, STATE, AND LOCAL CODES, AND REQUIREMENTS OF GOVERNING REGULATORY AGENCIES.

(3) TEST PIPING FOR LEAKS: REPAIR LEAKS IN COPPER TUBING BY SWEATING OUT JOINT; THOROUGHLY CLEANING BOTH TUBE AND FITTING, AND RESOLDERING. CORRECT LEAKS IN SCREWED JOINT BY REPLACING THREAD OR FITTING OR BOTH.

(4) PROVIDE SERVICES OF A CERTIFIED A.B.C. OR N.E.E.B. TEST AGENCY. CONDUCT ALL TESTS IN ACCORDANCE WITH ASSOCIATED AIR BALANCE COUNCIL STANDARDS. TEST AND ADJUST AIR HANDLING SYSTEM TO WITHIN 5% OF DESIGN REQUIREMENTS.

3. VISIT TO THE SITE

A. THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE WORK. THE SUBMITTALS SHALL PRESUPPOSE KNOWLEDGE OF ALL SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.

4. PROTECTION

A. THE HVAC CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FROM DIRT AND WATER DURING CONSTRUCTION NECESSITATED BY HVAC WORK. PROTECTION METHODS ARE SUBJECT TO APPROVAL BY THE ARCHITECT.

5. EQUIPMENT AND MATERIALS

A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL CONFORM TO UNDERWRITERS' LABORATORIES STANDARDS, WHERE APPLICABLE. WHERE SPECIFICATIONS DESCRIBE, OR PLANS SHOW, MATERIALS OR EQUIPMENT OF HIGHER QUALITY THAN REQUIRED BY CODE AND LOCAL RULING, THE DRAWINGS AND SPECIFICATIONS SHALL GOVERN THE QUALITY OF THE MATERIAL OR EQUIPMENT USED. EQUIPMENT OR MATERIALS ARE PROHIBITED UNLESS NOTED OTHERWISE.

B. NEW OR EXISTING TO REMAIN EQUIPMENT SHALL NOT BE OPERATED DURING CONSTRUCTION. HVAC CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE TEMPORARY SPACE CONDITIONING IN ORDER TO MAINTAIN TEMPERATURES AND HUMIDITY LEVELS AS REQUIRED FOR GENERAL CONSTRUCTION.

C. THE CONTRACTOR SHALL SUBMIT PROOF, IF REQUESTED BY THE OWNER, THAT THE MATERIALS, APPLIANCES, EQUIPMENT OR DEVICES FURNISHED AND INSTALLED UNDER THIS CONTRACT MEET THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES, INC. IN REGARDS TO FIRE AND CASUALTY HAZARDS. THE LABEL OF OR LISTING BY THE UNDERWRITERS' LABORATORIES, INC. WILL BE ACCEPTED AS CONFORMING TO THIS REQUIREMENT. IN LIEU OF THE LABEL OR LISTING, THE CONTRACTOR MAY SUBMIT INDEPENDENT PROOF SATISFACTORY TO THE ARCHITECT THAT THE MATERIAL, APPLIANCES OR DEVICES CONFORM TO THE PUBLISHED STANDARDS, INCLUDING METHODS OF TEST FOR THE UNDERWRITERS' LABORATORIES INCORPORATED. UNDERWRITERS LABORATORIES, INC. AND ITS PUBLICATIONS WILL BE REFERRED TO HEREINAFTER BY THE ABBREVIATION UL – WITH OR WITHOUT ADDITIONAL IDENTIFYING SYMBOLS.

6. GUARANTEE

A. THE HVAC CONTRACTOR SHALL GUARANTEE FOR A PERIOD OF ONE YEAR THAT ALL WORK AND EQUIPMENT WILL REMAIN FREE FROM ALL DEFECTS IN WORKMANSHIP AND MATERIALS AND THAT IT WILL COMPLY WITH ALL THE SPECIFIC REQUIREMENTS OF THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS GOVERNING THE WORK.

B. ALL WORK FOUND BY THE ENGINEER TO BE DEFECTIVE WILL BE REPLACED WITH NEW WORK MEETING ALL THE REQUIREMENTS OF THE CONTRACT. THE HVAC CONTRACTOR WILL BEAR ALL COSTS OF SUPPLYING SUCH NEW, AND INSTALLING AND FINISHING SAME, AND WILL ASSUME ALL COSTS FOR REPLACING OTHER WORK DAMAGED BY THE REMOVAL AND REPLACEMENT OF ANY OF THE WORK. THE HVAC CONTRACTOR WILL BEAR ALL COSTS FOR FREIGHT, DRAVAGE AND DEMURRAGE, AND ALL LABOR IN CONNECTION THEREWITH.

7. CUTTING, PATCHING, FIRESTOPPING AND PAINTING

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING ALL HOLES REQUIRED FOR INSTALLATION OF HVAC WORK. HOLES SHALL BE CUT IN A NEAT MANNER SATISFACTORY TO THE ARCHITECT.

B. CONTRACTOR SHALL EMPLOY AN BUILDING OWNER APPROVED ROOFING CONTRACTOR FOR ALL ROOF PENETRATIONS. ROOF SHALL BE REPAIRED SO AS NOT TO VOID ROOF WARRANTY.

C. UNLESS NOTED OTHERWISE, ALL HOLES OR DAMAGE CAUSED BY THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE PROPERLY PATCHED BY THIS CONTRACTOR. HOLES SHALL BE NEATLY PATCHED AND PAINTED WITH SUITABLE MATERIAL TO MATCH EXISTING SURFACES. HOLES THROUGH FLOORS OR FIRE WALLS SHALL BE SEALED WITH THE APPROPRIATE INTUMESCENT CAULK, PUTTY, STRIP OR SHEET FIRE BARRIER PRODUCT.

D. FIRESTOP SYSTEM (REQUIRED FIRESTOPPING MATERIALS) SHALL BE DETERMINED BY THE WALL OR FLOOR/CEILING ASSEMBLY AND PENETRATION TYPE AND SHALL BE UL LISTED AND TESTED IN ACCORDANCE WITH ASTM E814, FIRE RATING OF THE FIRESTOP SYSTEM SHALL BE EQUIVALENT TO THE ASSEMBLY WHICH IS PENETRATED.

E. ACCEPTABLE FIRE BARRIER PRODUCTS: HILI "FS-ONE" NELSON FLAMESEAL OR APPROVED EQUAL AS MANUFACTURED BY 3M.

8. CLEANING AND PAINTING

A. CLEAN NEW PIPING AFTER WORK IS COMPLETE TO REMOVE PIPE DOPE. LOOSE MILL SCALE, AND OTHER EXTRANEIOUS MATERIALS.

B. TOUCH UP AND REPAIR ANY DAMAGED FACTORY FINISHES ON EQUIPMENT AND MATERIALS FURNISHED. OTHER PAINTING WILL BE DONE UNDER THE PAINTING DIVISION OF THE SPECIFICATIONS.

9. COORDINATION AND CONDUCT OF WORK

A. HVAC DRAWINGS ARE DIAGRAMMATIC, INDICATING GENERAL ARRANGEMENT, APPROXIMATE SIZES, GENERAL LOCATIONS OF EQUIPMENT AND PIPING. VERY DIMENSIONS IN FIELD; ADJUST TO MANUFACTURER'S SHOP DRAWINGS. DO NOT SCALE DRAWINGS.

B. ALL REQUESTS FOR INFORMATION SUPPLEMENTAL TO THE CONSTRUCTION DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT FOR DISTRIBUTION TO THE APPROPRIATE PARTY(S).

C. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER, WORK SPECIFIED BUT NOT SHOWN, OR SHOWN BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.

D. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.

E. ARCHITECTURAL AND STRUCTURAL DRAWINGS SUPERSEDE HVAC DRAWINGS. DETERMINE THAT WORK OF THIS DIVISION CAN BE ACCOMMODATED WITHIN SPACES PROVIDED. NOTIFY ARCHITECT OF ANY INTERFERENCE BEFORE STARTING INSTALLATION.

F. DETERMINE SIZES, LOCATIONS FOR CHASES AND OPENINGS NECESSARY FOR INSTALLATION OF HVAC WORK, COOPERATE WITH OTHER TRADES IN PROVIDING SLEEVES, INSERTS AND HANGERS.

G. COORDINATE THIS WORK WITH ALL TRADES. ARRANGE OPERATIONS SO AS NOT TO DELAY COMPLETION OF INSTALLATION OF ANY PARTS OF INTERRELATED WORK SO THAT CONSTRUCTION MAY PROCEED ON SCHEDULE.

H. COOPERATE WITH ALL TRADES IN PREPARING INTERFERENCE DRAWINGS FOR AREAS WHERE THERE IS POSSIBLE CONFLICT BETWEEN TRADES. EXACT LOCATION OF PIPES, DUCTS AND EQUIPMENT SHALL BE BASED ON FIELD MEASUREMENT WITH FINAL ARRANGEMENT DETERMINED BY INTRA-TRADE AGREEMENTS SUBJECT TO ARCHITECT'S APPROVAL.

I. ARCHITECT RESERVES THE RIGHT TO MAKE REASONABLE CHANGES IN INDICATED LOCATIONS WITHOUT EXTRA COST TO THE OWNER.

J. ALL WORK SHALL BE INSTALLED IN NEAT AND WORKMANLIKE MANNER BY FIRST-CLASS MECHANICS. THE CONTRACTOR SHALL PROVIDE ADEQUATE AND COMPETENT SUPERVISION OF THE JOB AS REQUIRED.

K. DUCTWORK, PIPING AND EQUIPMENT SHALL BE ARRANGED SUBSTANTIALLY AS INDICATED. ANY CHANGE RESULTING IN A SAVINGS IN LABOR OR MATERIAL SHALL BE MADE ONLY IN ACCORDANCE WITH A CONTRACT CHANGE ORDER. DEVIATIONS SHALL BE MADE ONLY WHERE NECESSARY TO AVOID INTERFERENCES AND ONLY AFTER DRAWINGS SHOWING THE PROPOSED DEVIATIONS HAVE BEEN SUBMITTED TO AND APPROVED BY THE ARCHITECT.

L. COORDINATE ALL SHUTDOWNS OF ANY HVAC SYSTEM IN ADVANCE WITH THE OWNER.

10. SUBMITTALS

A. PROVIDE A MINIMUM OF SIX (6) SETS OF SHOP DRAWINGS/SUBMITTALS FOR ALL SCHEDULED AND/OR SPECIFIED EQUIPMENT FOR APPROVAL BY THE ARCHITECT AND ENGINEER. INFORMATION SHALL INCLUDE, BUT IS NOT LIMITED TO; CFM, HP, GPM, MPH, EER, COP, SEFF. VOLTAGE/PHASE, MCA, CONNECTION SIZES, WEIGHT, DIMENSIONS, SCHEDULED EQUIPMENT, DIFFUSERS, DAMPERS, LISTED ACCESSORIES, ETC. AND OTHER COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION.

B. WHERE ONLY ONE MAKE OF EQUIPMENT IS NAMED, IT SHALL BE PROVIDED AS SPECIFIED.

C. VERBAL REQUESTS OF APPROVALS FOR ANY SUBSTITUTION WILL NOT BE BINDING ON THE ARCHITECT, ENGINEER AND OWNER.

D. THIS CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ALL COSTS FOR REDESIGN AND CHANGES NECESSARY BY ALL TRADES TO ACCOMMODATE THE USE OF EQUIPMENT NOT SPECIFIED ON PROJECT DOCUMENTS.

E. BIDS SHALL BE BASED UPON THE SPECIFIED PRODUCTS OR LISTED ALTERNATIVES. DRAWINGS AND SPECIFICATIONS ARE BASED ON THE PRODUCTS SPECIFIED BY TYPE, MODEL, AND SIZE, AND THIS ESTABLISH MINIMUM QUALITIES, WHICH SUBSTITUTES MUST MEET TO QUALIFY FOR REVIEW.

F. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT AND DEVICES OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ENGINEER AT LEAST FOURTEEN (14) CALENDAR DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE AND BE ACCOMPANIED WITH COMPLETE SPECIFICATION CUT SHEET SUBMITTALS AS OUTLINED IN SECTION 10.4 OF THIS SPECIFICATION SECTION, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEVIATIONS TO THE CONTRACT PRICE ON BOTH THE SUBSTITUTION SUBMITTAL AND THE BID FORM. FAILURE TO PERFORM THESE ACTIONS EQUATES TO ACKNOWLEDGEMENT THAT THE PROJECT HAS BEEN BID WITH STRICT ACCORDANCE TO THIS SPECIFICATION AND APPLICABLE DRAWINGS.

G. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE CONTRACTOR SHALL SUBMIT INSPECTION SAMPLES OF BOTH THE SPECIFIED AND THE PROPOSED SUBSTITUTE ITEMS.

H. IF ANY SUBSTITUTIONS ARE APPROVED, AN ADDENDUM LISTING THE APPROVED ITEM(S) WILL BE ISSUED TO ALL BIDDING CONTRACTORS PRIOR TO THE BID DATE.

I. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE EQUALITY OF THE MATERIAL AND EQUIPMENT TO BE INSTALLED.

11. EQUIPMENT IDENTIFICATION

A. THE CONTRACTOR SHALL FURNISH AND INSTALL A SYSTEM OF NAMEPLATES DESIGNED TO IDENTIFY EACH PIECE OF EQUIPMENT.

(1) NAMEPLATE LETTERS AND NUMBERS SHALL MATCH EQUIPMENT DESIGNATION AS INDICATED ON THE DRAWINGS.

(2) NAMEPLATES SHALL BE LAMINATED PHENOLIC WITH BLACK SURFACE AND WHITE CORE. USE 1/16" THICK MATERIAL FOR PLATES UP TO 2' BY 4". FOR LARGER SIZES USE 1/8" THICK. LETTERS AND NUMBERS SHALL BE A MINIMUM OF 1/8" HIGH.

(3) FASTEN NAMEPLATES TO ALL EQUIPMENT BY THE USE OF STAINLESS STEEL SHEET METAL SCREWS.

12. AS-BUILT DRAWINGS

A. AS WORK PROGRESSES, RECORD ON A SET OF "AS-BUILT" PRINTS ANY DEVIATIONS FROM DESIGN DRAWINGS. DELIVER THIS SET TO THE OWNER BEFORE SUBMITTING REQUEST FOR FINAL PAYMENT. THE "AS-BUILT" PRINTS SHALL BE AN ACCURATE DEPICTION OF THE PROJECT AS COMPLETED.

13. OPERATING AND MAINTENANCE MANUALS

A. PROVIDE TO OWNER AT PROJECT TURNOVER, THREE (3) HARDBOUND COPIES OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND SYSTEMS INSTALLED.

B. MANUALS SHALL INCLUDE ALL RELEVANT INFORMATION NEEDED FOR DAY-TO-DAY OPERATION AND MANAGEMENT OF EACH SYSTEM AND EQUIPMENT MAINTENANCE INFORMATION REQUIRED TO SUPPORT THE MAINTENANCE PROGRAM.

C. MANUALS SHALL INCLUDE THE SEQUENCE OF OPERATION FOR EACH SYSTEM WHICH DESCRIBES THE CONTROL COMPONENTS AND HOW THE SYSTEM WILL START, STOP AND OPERATE.

14. INSULATION

A. PROVIDE ALL INSULATION MATERIALS (INSULATION, JACKETS, FITTING COVERS, ADHESIVES, CEMENTS, MASTICS, SEALERS AND FINISHES) WITH A FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS, AS TESTED UNDER PROCEDURE ASTM E-84 (NFPA 255)

B. ALL INSULATION SHALL BE INSTALLED OVER CLEAN, DRY SURFACES. INSULATION SHALL BE DRY AND IN GOOD CONDITION. WET OR DAMAGED INSULATION IS NOT ACCEPTABLE. NO INSULATION SHALL BE APPLIED PRIOR TO PRESSURE TEST COMPLETION OF THE RESPECTIVE SYSTEM.

C. ALL INSULATION SHALL BE CONTIGUOUS (INCLUDING VAPOR BARRIER) THROUGH WALL AND CEILING OPENINGS AND SLEEVES. OVERLAP AT SEAMS PER MANUFACTURER'S RECOMMENDATIONS.

D. ALL INSULATION PRODUCTS SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATION. THE WORKMANSHIP SHALL BE FIRST CLASS AND ALL JOINTS SHALL BE MADE TIGHT.

E. INSULATION R-VALUES MUST MEET ADOPTED ASHRAE 90.1 OR IECC STANDARDS.

F. INTERNAL DUCT INSULATION SHALL BE USED ON EXPOSED DUCTWORK.

F. REPAIR EXISTING INSULATION WHERE REMOVED FOR NEW CONNECTIONS OR INSULATION DAMAGED DURING CONSTRUCTION. INSULATION SHALL BE THE SAME AS SPECIFIED FOR NEW SERVICE.

G. ALL INSULATION USED AS PLENUM WRAP COVERING FOR COMBUSTIBLE MATERIALS IN A PLENUM SPACE SHALL BE 3M PLENUM PROTECTION SYSTEM (PP-100-P), ONE LAYER OF 3M FIRE BARRIER DUCT WRAP SA, IN ACCORDANCE WITH UL910 & UL1887.

H. ALL SUPPLY, RETURN AND FRESH AIR DUCTWORK TO BE INSULATED OR LINED, UNLESS OTHERWISE NOTED.

I. ACOUSTICAL DUCT LINING:

(1) INTERNALLY LINE FIRST TEN FEET OF DUCTWORK FROM AIR HANDLERS AND TERMINAL UNITS AND WHERE INDICATED ON PLANS.

(2) FIBROUS GLASS, COMPLYING WITH THERMAL INSULATION MANUFACTURERS ASSOCIATION (TIMA) AHC-101.

(3) ASTM C 1071, TYPE II, WITH COATED SURFACE EXPOSED TO AIRSTREAM TO PREVENT EROSION OF GLASS FIBERS 1" THICK. 1- 1/2 LB. DENSITY. COATING MATERIAL SHALL BE ANTI-MICROBIAL AND COMPLY WITH NFPA 90A AND 90B.

(4) K-FACTOR EQUAL TO 0.28 OR BETTER, AT MEAN TEMPERATURE OF 75 DEG. F.

(5) FLAME SPREAD INDEX SHALL BE 25 OR LESS AND SMOKE DEVELOPED INDEX SHALL BE 50 OR LESS, AS TESTED IN ACCORDANCE WITH ASTM C 411.

(6) DUCT LINING ADHESIVE SHALL COMPLY WITH ASTM C 916 SPECIFICATIONS FOR ADHESIVES FOR "DUCT THERMAL INSULATION"; DUCT LINING FASTENERS ALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS, ARTICLE S2.11

(7) ALTERNATE DUCT LINING MATERIAL – ARMACELL AP ARMAFLEX SA BLACK DUCT LINER, 3/4" THICK, MICROBAN ANTI-MICROBIAL PROTECTION.

15. METAL DUCTWORK

A. HVAC CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION OF DUCTWORK. ANY CONFLICTS OR INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

B. GALVANIZED DUCTWORK SHALL BE FABRICATED OF NO.1 PRIME GALVANIZED SHEET METAL OF LOCK FORMING QUALITY.

C. SEALING MATERIALS SHALL BE SUITABLE FOR; USE WITH AIR DISTRIBUTION DUCTWORK. ACCEPTABLE MANUFACTURERS ARE MONOCO INDUSTRIES, 3M, OR UNITED SHEET METAL.

D. SHOULD ALL DUCTWORK AS INDICATED ON THE DRAWINGS, MAKING ALL NECESSARY OFFSETS (WHETHER OR NOT SPECIFICALLY INDICATED) AS REQUIRED TO MEET THE VARIOUS BUILDING CONDITIONS. DUCTWORK INSTALLATION SHALL NOT CONFLICT WITH EQUIPMENT OR PIPING.

E. EXPOSED DUCTWORK SHALL BE PRIMED AND PAINTED. COORDINATE WITH ARCHITECTURAL PLANS FOR COLOR SELECTION.

F. ALL CHANGES IN CROSS SECTION SHALL BE MADE WITHOUT REDUCING THE DESIGN AREA OF THE DUCT OR RAISING THE PRESSURE DROP PER 100 FEET OF DUCT SHOWN ON DOCUMENTS.

G. NO PIPE OR OTHER OBSTRUCTIONS SHALL PASS THROUGH AIR DUCTS, UNLESS SPECIFICALLY SHOWN ON PLANS.

H. CAP ALL OPEN ENDS TO DUCTWORK DURING CONSTRUCTION TO PREVENT ENTRANCE OF DUST, DEBRIS, MOISTURE ETC.

I. INSTALL DUCTWORK RUN ABOVE CEILING AS HIGH AS POSSIBLE SO AS TO MAINTAIN DESIGN CEILING HEIGHTS. EXPOSED DUCTWORK SHALL BE INSTALLED TO PROVIDE MAXIMUM HEADROOM OR AT HEIGHT SPECIFIED ON PLANS.

J. DUCTWORK SHALL NOT BE HUNG FROM EQUIPMENT, PIPING, CONDUIT, ROOF DECKING OR OTHER DUCTWORK.

K. ALL DUCTWORK JOINTS AND SEAMS SHALL BE AIR-TIGHT PER SMACNA TABLE 1.1. POORLY MADE JOINTS, SPLITS, VISIBLE HOLES AT CORNERS, ETC SHALL BE REWORKED AND REPAIRED. WHERE EXCESSIVE PULSATING OF DUCTWORK IS FOUND, ADDITIONAL STIFFENERS SHALL BE ADDED. ANY CRACKING IN THE SEALANT IS THAT IS APPARENT UPON INSPECTION SHALL BE SUFFICIENT TO WARRANT REJECTION.

L. IF THE INTERIOR OF SHEET METAL IS EXPOSED TO VIEW THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS OF THE BUILDING, IT SHALL BE COATED WITH PRIMER AND A FLAT BLACK FINISH COAT.

M. ALL DUCTWORK SHALL BE SUPPORTED PER SMACNA REQUIREMENTS.

N. RECTANGULAR DUCTWORK FITTINGS

(1) BRANCH CONNECTIONS SHALL BE 45 DEGREE ENTRY. STRAIGHT TAPS ARE NOT PERMITTED.

(2) CHANGES IN DIRECTION SHALL BE MADE WITH FULL RADIUS ELBOWS WITH RADIUS EQUAL TO 1-1/2 TIMES THE HORIZONTAL WIDTH OF THE DUCT OR WITH SQUARE ELBOWS WITH TURNING VANES. TURNING VANES SHALL BE DOUBLE THICKNESS TYPE CONSTRUCTED OF THE SAME MATERIAL AS THE SURROUNDING DUCTWORK, PER SMACNA REQUIREMENTS.

O. ROUND DUCTWORK FITTINGS:

(1) BRANCH CONNECTIONS SHALL BE MADE WITH 45 DEGREE ENTRY TEES.

(2) CHANGE IN DIRECTION SHALL BE MADE WITH FULL RADIUS ELBOWS WITH RADIUS EQUAL TO 1-1/2 TIMES THE DIAMETER OF THE DUCT

P. LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED PER SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR 2 INCH STATIC PRESSURE, SEAL CLASS "B".

Q. HANGERS AND SUPPORTS

(1) PROVIDE GALVANIZED STEEL STRAPS, ALL-THREAD ROD AND HORIZONTAL ANGLE SUPPORTS SIZED PER SMACNA REQUIREMENTS.

(2) DUCT ATTACHMENTS SHALL BE MADE USING SHEET METAL SCREWS COMPATIBLE WITH DUCT MATERIALS.

(3) BUILDING ATTACHMENTS SHALL BE CONCRETE INSERTS OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR THE BUILDING MATERIALS. DO NOT USE POWDER ACTIVATE CONCRETE FASTENERS TO TYPE MALLEABLE IRON BEAM CLAMPS ARE ACCEPTABLE ONLY IF USED WITH CARBON STEEL RETAINER STRAP.

16. KITCHEN HOOD EXHAUST AIR DUCTWORK (TYPE 1 GREASE EXHAUST)

A. DUCTWORK SHALL BE 16 GA. (STAINLESS STEEL, BLACK IRON) WITH RADIUS WELDED STAINLESS STEEL ELBOWS PER INTERNATIONAL MECHANICAL CODE OR LOCAL CODE FOR GREASE DUCT STANDARDS.

A.A. ALTERNATE – UL LISTED MANUFACTURED GREASE DUCT SYSTEM. APPROVAL PENDING REVIEW OF ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION.

B. GREASE DUCTWORK SHALL SLOPE BACK TO HOOD AT 1/2" PER FOOT.

C. EXHAUST HOOD MAKE-UP AIR SYSTEM

(1) SYSTEM SHALL CONFORM TO THE LOCAL STATE MECHANICAL CODE.

D. INSULATION: GREASE DUCT FIRE WRAP SHALL BE 2" THICK 3M FOIL WRAPPED FIRE DUCT WRAP 20A IN ACCORDANCE WITH ASTM E2336. IT MUST BE INSTALLED AROUND ALL GREASE DUCT FOR ZERO CLEARANCE INSTALLATION.

17. FLEXIBLE DUCTWORK

A. TESTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AS CLASS I AIR DUCT AND LABELED IN ACCORDANCE WITH U.L. 181, STANDARD FOR AIR DUCTS"; THE FLAME SPREAD RATING SHALL BE 25 OR LESS AND THE SMOKE DEVELOPED RATING SHALL BE 50 OR LESS.

B. LINER SHALL BE CONSTRUCTED OF ALUMINUM FOIL, FIBERGLASS AND ALUMINIZED POLYESTER, MECHANICALLY LOCKED WITHOUT ADHESIVES; HELIX SHALL BE GALVANIZED STEEL, FORMED AND MECHANICALLY LOCKED TO FABRIC.

C. WHERE DUCTWORK IS TO BE INSULATED, FLEXIBLE DUCTWORK LINER SHALL BE COVERED BY A FACTORY WRAPPED, 1-1/2" THICK, 3/4 POUND DENSITY FIBERGLASS INSULATION BLANKET WITH A FIRE RATED REINFORCED ALUMINUM OUTER JACKET.

D. INSTALL FLEXIBLE DUCTWORK FULLY EXTENDED, FREE OF SAGS AND KINKS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 3'-0". FASTEN FLEXIBLE DUCTWORK TO RIGID DUCTWORK AND DEVICES WITH SELF-LOCKING 100 PERCENT NYLON ADJUSTABLE DIAMETER CLAMPS.

E. ACCEPTABLE MANUFACTURERS ARE THERMAFLEX, FLEXMASTER U.S.A. INC. AND CLEVAFLX.

18. BALANCING DAMPERS

A. PROVIDE BALANCING DAMPERS FOR ALL AIR TERMINAL DEVICES (SUCH AS BUT NOT LIMITED TO, DIFFUSERS, REGISTERS, GRILLES, ETC.) AND BRANCH DUCTWORK REQUIRED FOR PROPER BALANCING OF SYSTEM.

B. ROUND DAMPERS SHALL BE SINGLE BLADE TYPE CONSTRUCTION, MINIMUM 18 GAUGE GALVANIZED STEEL. PIVOT ROD SHAFT SHALL BE CONTINUOUS.

C. RECTANGULAR DAMPERS SHALL BE SINGLE BLADE OR MULTIPLE (OPPOSED BLADE) TYPE CONSTRUCTION. MAXIMUM BLADE WIDTH IS 8 INCHES.

D. ALL BALANCING DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"

E. FURNISH ALL BALANCING DAMPERS WITH YOUNG REGULATOR COMPANY VALCALOX REGULATORS WITH HANDLE PERMANENTLY ATTACHED. DAMPER HANDLE POSITION SHALL BE SECURELY LOCKED IN PLACE BY TIGHTENING OF A LOCK NUT. WHERE DUCTWORK IS EXTERNALLY INSULATED, REGULATOR BASE HEIGHT SHALL ACCOMMODATE INSULATION THICKNESS.

F. PROVIDE ALL MANUAL BALANCING DAMPERS WHERE INDICATED ON THE DRAWINGS AND WHERE NECESSARY TO PROPERLY DISTRIBUTE AND BALANCE THE AIR.

19. REGISTERS, GRILLES AND DIFFUSERS

A. PROVIDE REGISTERS, GRILLES AND DIFFUSERS WHERE SHOWN ON THE DRAWINGS, OF SIZE TYPE, AND MATERIAL AS INDICATED AND AS REQUIRED FOR A COMPLETE INSTALLATION.

B. BORDER TYPES SHALL BE COMPATIBLE WITH THE CEILINGS WHERE THE GRILLES AND DIFFUSERS ARE TO BE INSTALLED.

C. ALL GRILLES AND DIFFUSERS SHALL BE FINISHED WITH A FACTORY APPLIED OFF-WHITE FINISH UNLESS NOTED OTHERWISE.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF GRILLES AND DIFFUSERS.

20. VIBRATION ISOLATION

A. PROVIDE ADEQUATE VIBRATION ISOLATION FOR EACH PIECE OF EQUIPMENT.

B. PROVIDE FLEXIBLE CONNECTIONS WITH 1" SLACK BETWEEN DUCTS AND FANS AS MANUFACTURED BY DURO-DYNE, OR EQUIVALENT.

C. PROVIDE FLEXIBLE FITTING ON PIPING CONNECTIONS TO EQUIPMENT.

21. REFRIGERATION AND AIR CONDITIONING CONDENSATE PIPING SYSTEMS

A. USE TYPE DWV COPPER PIPING WITH BRAZED DRAINAGE FITTINGS FOR CONDENSATE PIPING.

B. USE TYPE ACR COPPER PIPING WITH BRAZED WRUGHT COPPER FITTINGS FOR ALL REFRIGERATION PIPING.

C. PITCH PUMPED AND GRAVITY CONDENSATE PIPING AT 1/8 INCH PER FOOT IN DIRECTION OF FLOW.

D. INSULATE ALL INTERIOR CONDENSATE PIPING AND REFRIGERATION SUCTION PIPING WITH 3/4 INCH ARMACELL CLOSED CELL SELF SEALING ARMAFLEX INSULATION.

22. EXHAUST FANS

A. CEILING MOUNTED DIRECT DRIVE CENTRIFUGAL EXHAUST VENTILATOR. FANS SHALL BE UL LISTED AND BEAR THE AMCA CERTIFIED RATING SEAL FOR SOUND AND AIR PERFORMANCE.

B. ALL FASTENERS SHALL BE CORROSION RESISTANT. ALUMINUM BASE SHALL HAVE CONTINUOUSLY WELDED CURB CAP CORNERS. MOTOR, BEARINGS AND DRIVE SHALL BE MOUNTED ON A STEEL ASSEMBLY, ISOLATED FROM THE FAN STRUCTURE WITH RUBBER VIBRATION ISOLATORS.

C. WHEEL SHALL BE CENTRIFUGAL BACKWARD INCLINED TYPE, CONSTRUCTED OF ALUMINUM, WITH A MACHINED CAST ALUMINUM HUB.

D. MOTOR SHALL BE HEAVY DUTY TYPE WITH PERMANENTLY LUBRICATED SEALED BALL BEARINGS.

E. FAN BEARINGS SHALL BE HEAVY DUTY REGREASABLE BALL TYPE WITH A CAST IRON HOUSING, RATED IN EXCESS OF 200,000 HOURS AT MAXIMUM CATALOGED OPERATING SPEED.

F. BELTS SHALL BE OIL AND HEAT RESISTANT, NON-STATIC TYPE. DRIVES SHALL BE MACHINED CAST IRON, KEVED AND SECURELY ATTACHED TO WHEEL AND MOTOR SHAFTS AND SIZED FOR 150 PERCENT OF THE INSTALLED MOTOR HORSEPOWER

G. ACCEPTABLE MANUFACTURERS; BRONAN, PENN VENTILATOR, COOK GREENEHECK AND ACMC.

23. EXTERIOR LOUVERS

A. EXTRUDED ALUMINUM ALLOY FRAME AND DRAINABLE BLADES. ALUMINUM BIRD SCREEN. MILL FINISH.

B. ACCEPTABLE MANUFACTURERS; RUSKIN, GREENEHECK

24. MOTOR OPERATED DAMPERS

A. GALVANIZED STEEL, LOW LEAKAGE CONTROL DAMPERS WITH 16 GAUGE REINFORCED GALVANIZED STEEL HAT CHANNEL FRAME. BLADES SHALL BE 16 GAUGE REINFORCED SINGLE SKIN GALVANIZED STEEL.

B. EDGE SEALS SHALL BE PVC COATED POLYESTER FABRIC MECHANICALLY LOCKED INTO THE BLADE EDGE. ADHESIVE OR CLIP-ON STYLES ARE NOT ACCEPTABLE.

C. JAMB SEALS SHALL BE FLEXIBLE METAL COMPRESSION TYPE TO PREVENT LEAKAGE BETWEEN BLADE END AND DAMPER FRAME. BLADE END OVERLAPPING FRAME IS UNACCEPTABLE.

D. BEARINGS SHALL BE CORROSION RESISTANT. AXLES SHALL BE SQUARE OR HEXAGONAL POSITIVELY LOCKED INTO THE DAMPER BLADE. LINKAGE SHALL BE OUT OF THE AIRSTREAM.

E. DAMPER ACTUATORS SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR.

F. ACCEPTABLE MANUFACTURERS: RUSKIN, GREENEHECK

25. TEMPERATURE CONTROLS

A. PROVIDE A BUILDING MANAGEMENT TEMPERATURE CONTROL SYSTEM.

B. ALL TEMPERATURE CONTROL COMPONENTS, WIRING AND CONDUIT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR.

C. WIRING AND CONDUIT

(1) ALL 24 VOLT WIRING SHALL BE INSTALLED IN CONDUIT, IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.

(2) ALL OUTDOOR 24 VOLT WIRING SHALL BE INSTALLED IN CONDUIT, IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.

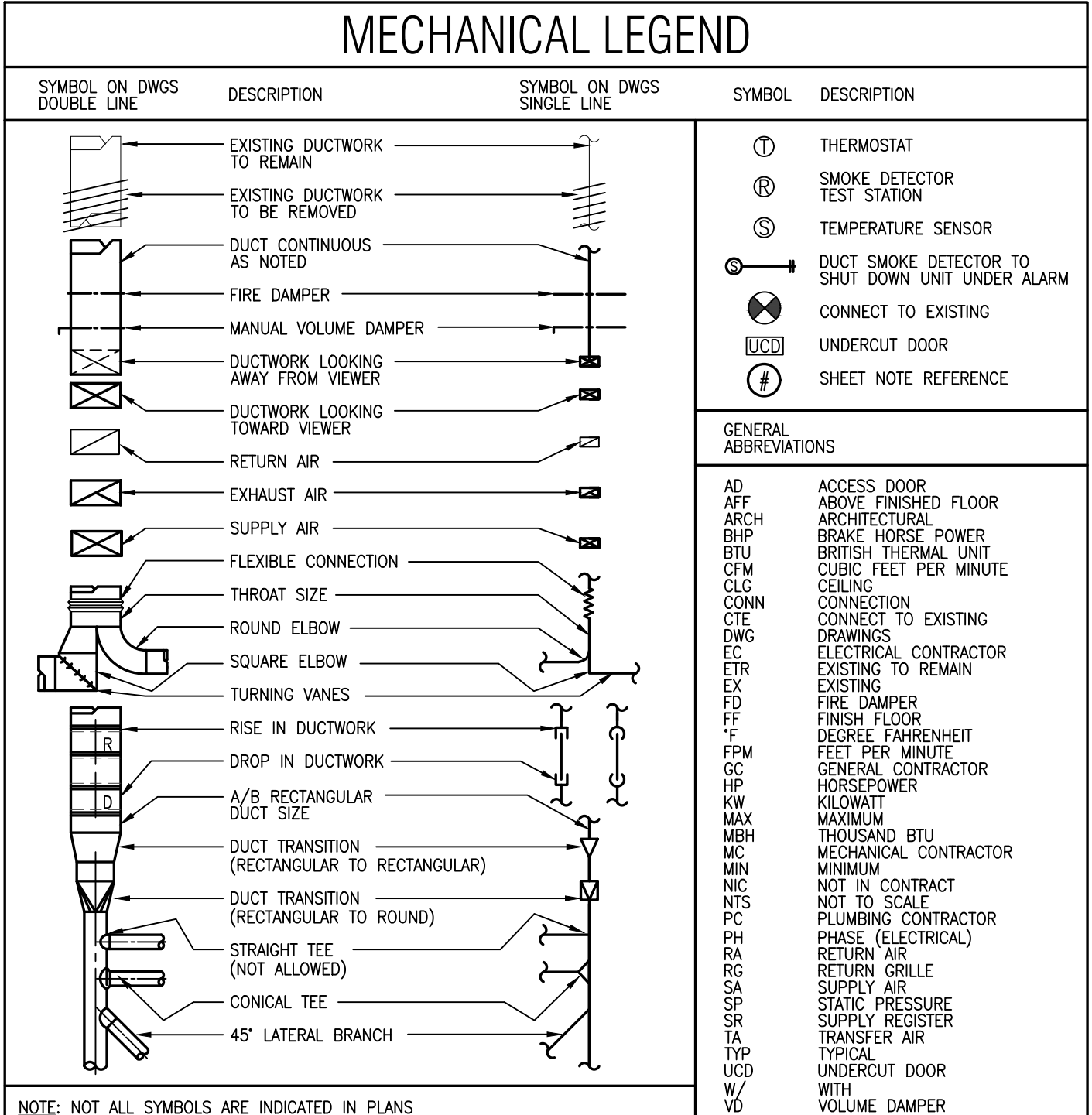
D. HVAC CONTRACTOR SHALL USE OWNER APPROVED TEMPERATURE CONTROL CONTRACTOR AND MANUFACTURER.

26. PROJECT COMPLETION:

A. UPON COMPLETION OF PROJECT THIS CONTRACTOR SHALL PROVIDE NEW FILTERS WITHIN ALL FAN POWERED EQUIPMENT.

B. ALL FAN POWERED EQUIPMENT SHALL HAVE THEIR EXTERIOR CLEANED WITH A MILD SOAP AND WATER SOLUTION AND THOROUGHLY DRIED.

C. PROVIDE 3 COPIES OF FINAL TEST AND BALANCE REPORT TO OWNER/ARCHITECT.



GENERAL MECHANICAL NOTES

1. GENERAL NOTES SHALL APPLY TO ALL HVAC DRAWINGS.

2. ALL KEY NOTES INDICATED ON THE DRAWINGS AS "TYPICAL" ARE TO BE CONSIDERED AS SHOWN AT ALL OTHER SIMILAR CONDITIONS WHETHER NOTED OR NOT.

3. ALL HVAC WORK SHALL BE COMPLETE AND READY FOR SATISFACTORY SERVICE.

4. THE CONTRACT DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE GENERAL ARRANGEMENT OF THE WORK.

5. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, AND WORK SCHEDULING ASSOCIATED WITH THE INSTALLATION OF THE HVAC SYSTEMS.

6. EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK WILL BE INSTALLED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR OMISSIONS RESULTING FROM THE FAILURE TO COMPLETELY EXAMINE THE SITE.

7. VERIFY SIZE AND LOCATIONS OF ALL EXISTING SERVICES. NOTIFY THE ENGINEER OF ALL DISCREPANCIES THAT EXIST BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING SERVICES BEFORE MAKING ANY CONNECTIONS TO THE EXISTING SERVICES.

8. COORDINATE THE SIZE AND LOCATION OF ROOF PENETRATIONS AND FLASHING REQUIREMENTS WITH THE WORK OF OTHER TRADES.

9. ROUTE PIPING AND DUCT SYSTEMS PARALLEL AND PERPENDICULAR TO THE BUILDING LINES. MOUNT AS CLOSE AS POSSIBLE TO THE UNDERSIDE OF THE BUILDING STRUCTURE.

10. COORDINATE THE INSTALLATION OF HVAC SYSTEMS WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS IN PIPING AND DUCTWORK AS REQUIRED AT NO ADDITIONAL COST TO AVOID OBSTRUCTIONS.

11. MOUNT ROOM SENSORS AND SWITCHES AT 4'-0", ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.

12. SUPPORT ALL EQUIPMENT FROM THE BUILDING STRUCTURE TO PROVIDE A VIBRATION-FREE INSTALLATION.

13. DUCTWORK DIMENSIONS SHOWN ON THE DRAWINGS ARE INTERNAL AIRFLOW DIMENSIONS. INCREASE THE SHEET METAL DUCTWORK DIMENSIONS BY 2 IN. TO ACCOMMODATE 1-IN. DUCT LINER WHERE REQUIRED.

14. PROVIDE FLEXIBLE DUCT CONNECTORS ON ALL DUCTWORK CONNECTIONS TO FANS OR AIR HANDLING UNITS.

15. PROVIDE 1/2-IN. MESH ALUMINUM SCREEN OVER THE OPENING OF ALL OPEN-ENDED DUCTWORK.

16. ENSURE THAT ADEQUATE CLEARANCE EXISTS FOR THE INSTALLATION AND MAINTENANCE OF ALL WORK SHOWN ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS.

17. PROVIDE ACCESS PANELS (INSTALLED IN WALLS OR CEILINGS) AND/OR ACCESS DOORS (INSTALLED IN DUCTWORK) THAT ARE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED HVAC DEVICES THAT MAY REQUIRE FUTURE INSPECTION, REPAIR, OR ADJUSTMENT.

18. IDENTIFY ALL HVAC EQUIPMENT WITH ENGRAVED, COLOR-CODED LAMINATED PLASTIC MARKERS WITH CONTACT-TYPE, PERMANENT ADHESIVE. MATCH EQUIPMENT SCHEDULES ON THE DRAWINGS AS CLOSELY AS POSSIBLE FOR EQUIPMENT DESIGNATIONS.

19. PROVIDE SLEEVES AND CAULK ALL PIPING PENETRATIONS THROUGH WALLS AND FLOORS TO MATCH THE ADJACENT CONSTRUCTION. PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPING PENETRATIONS IN EXPOSED LOCATIONS.

20. PROVIDE SLEEVES AND PATCH ALL DUCT PENETRATIONS THROUGH WALLS AND FLOORS TO MATCH THE EXISTING CONSTRUCTION. SLEEVE DIMENSIONS SHALL BE 1 IN. LARGER THAN INSULATED DUCT DIMENSIONS. THE SPACE BETWEEN THE DUCT AND THE SLEEVE SHALL BE PACKED WITH MINERAL FIBER AND CAULKED.

21. FIRESTOP ALL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALLS, FLOORS, OR ASSEMBLIES IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS.

22. SEAL ALL PENETRATIONS THROUGH WATERPROOF CONSTRUCTION IN ACCORDANCE WITH THE WATERPROOFING MANUFACTURER'S INSTRUCTIONS. ALL WORK SHALL BE PERFORMED BY APPROVED CONTRACTORS IF REQUIRED BY THE MANUFACTURER TO MAINTAIN THE WARRANTY ON THE MATERIAL.

23. PROVIDE ALL LOW PRESSURE DUCTWORK SIZED EQUAL TO OR LESS THAN 0.1" W.G./100' (TYP.) UNLESS SCHEDULED OTHERWISE. INDICATE ALL DUCT SIZES ON SHOP DRAWINGS.

24. PROVIDE MINIMUM DUCT RADIUS ON ELBOWS AT 1-1/2 TIMES DUCT SIZE.

25. ALL DUCTS SHALL BE FREE FROM CONTACT WITH ALL PIPING, WALLS, ELECTRICAL CONDUITS, CEILING SUSPENSION SYSTEMS, ETC.

26. PROVIDE THROAT WITH PROPORTIONAL SPLIT AND TURNING VANES ON TEE TRANSITIONS. (BULLHEAD TEES WILL NOT BE PERMITTED).

27. ALL PIPING AND DUCTWORK SHALL FREELY PASS THROUGH ALL WALLS AND FLOORS WITHOUT RIGID CONNECTIONS. PENETRATION POINTS SHALL BE SLEEVED TO ALLOW PASSAGE OF PIPING OR DUCTWORK AND MAINTAIN 3/4" TO 1-1/4" CLEARANCE AROUND THE OUTSIDE SURFACES. THIS CLEARANCE SHALL BE THOROUGHLY PACKED WITH ONE POUND DENSITY GLASS FIBER, AND CAULKED AIR TIGHT WITH NON-HARDENING SEALANT AFTER INSTALLATION OF PIPING OR DUCTWORK.

28. PROVIDE FIRE DAMPERS WITH ACCESS IN ALL RATED WALLS IN ACCORDANCE WITH LOCAL CODES.

29. FABRICATE, INSTALL, SEAL, AND INSULATE ALL DUCTWORK IN STRICT CONFORMANCE WITH THE REQUIREMENTS OF THE STATE MECHANICAL CODE AND ASME STANDARDS.

30. ALL EQUIPMENT, MATERIALS AND WORK SHALL CONFORM TO THE APPLICABLE CODES OF THE STATE BUILDING, FIRE, MECHANICAL, AND NATIONAL ELECTRICAL CODES AS ADOPTED BY THE CITY AND ALL OTHER CODES, SAFETY ORDERS AND REGULATIONS AS ENFORCED BY THE STATE AND CITY FIRE MARSHAL'S PERTAINING TO THIS PROJECT.

31. PROTECTIVE BARRIERS SHALL BE INSTALLED IN FRONT OF EQUIPMENT WHERE EQUIPMENT IS SUBJECT TO MECHANICAL DAMAGE.

32. SUITABLE OPENINGS WITH TIGHTLY FITTED COVERS SHALL BE PROVIDED TO MAKE FIRE DAMPERS ACCESSIBLE FOR INSPECTION.

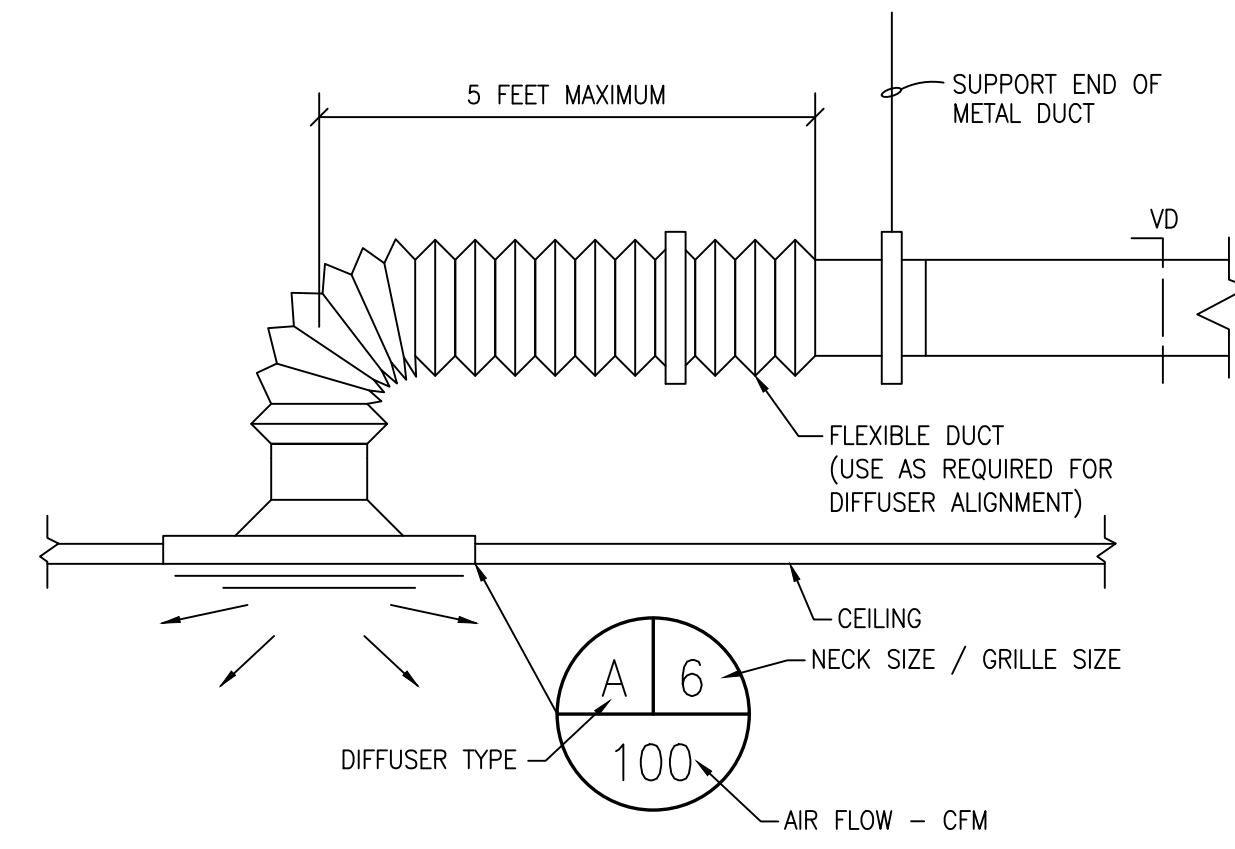
33. ACCESSIBILITY: ALL EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED WITHIN 24" OF, AND BEHIND, AN ACCESS PANEL.

34. SPECIFICATION: THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH, AND BE CONSIDERED TO BE A PART OF THE SPECIFICATIONS.

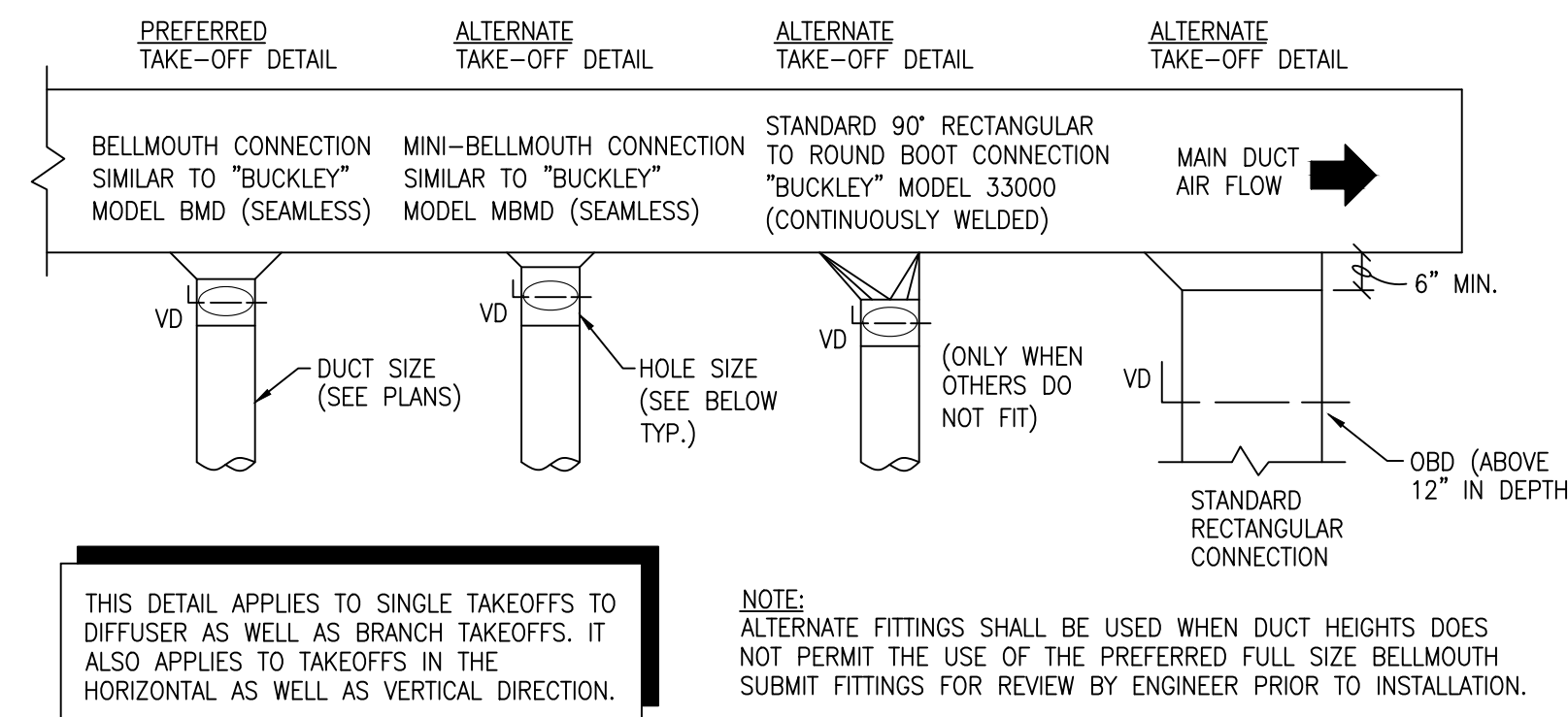
35. PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE EXCAVATED AND/OR DAMAGED BY HIS OPERATIONS.

FIELD VERIFY ALL CONDITIONS

- DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET



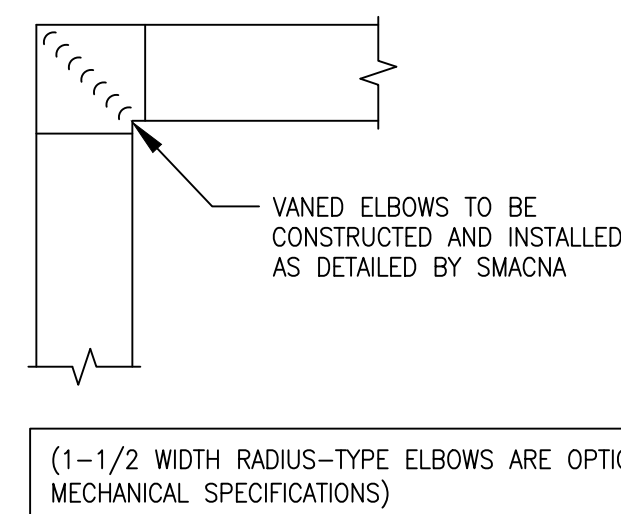
CEILING DIFFUSER BRANCH DUCTS W/ FLEX CONNECTION
NO SCALE



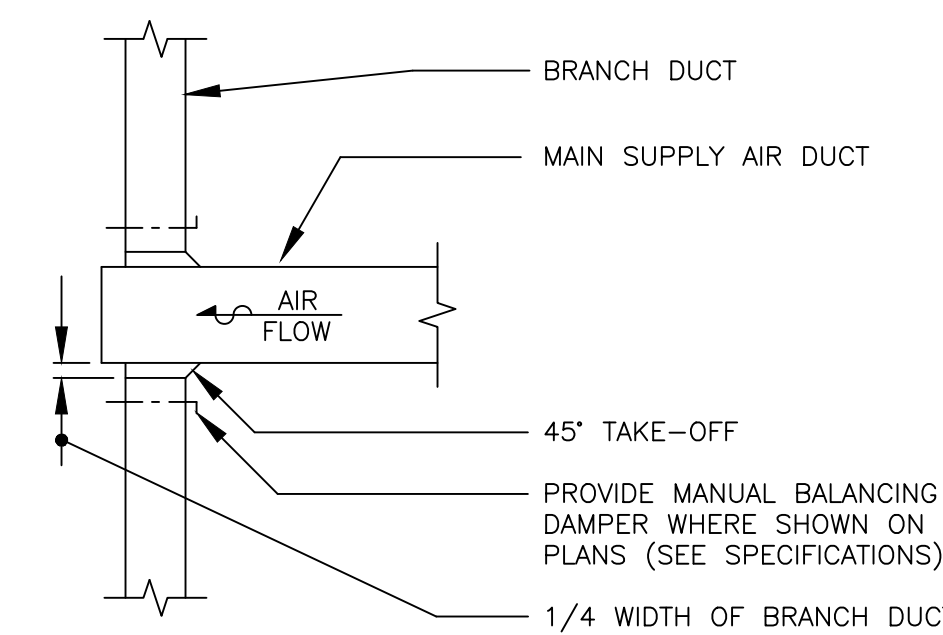
THIS DETAIL APPLIES TO SINGLE TAKEOFFS TO DIFFUSER AS WELL AS BRANCH TAKEOFFS. IT ALSO APPLIES TO TAKEOFFS IN THE HORIZONTAL AS WELL AS VERTICAL DIRECTION.

NOTE: ALTERNATE FITTINGS SHALL BE USED WHEN DUCT HEIGHTS DOES NOT PERMIT THE USE OF THE PREFERRED FULL SIZE BELLMOUTH. SUBMIT FITTINGS FOR REVIEW BY ENGINEER PRIOR TO INSTALLATION.

DUCT TAKEOFFS
NO SCALE



LOW PRESSURE DUCT ELBOW DETAIL
NO SCALE



LOW PRESSURE END OF SUPPLY AIR DUCT DETAIL
NO SCALE

| EXHAUST FAN SCHEDULE | | | | | | | | | |
|----------------------|-----------------------------|-------|-------|---------------|--------|-----------|----------------------|-------------|--|
| NO. | SERVICE | CFM | S.P. | SOUND (SONES) | POWER | ELECT. | MANUF. & MODEL NO. | REMARKS | |
| EF-1 | UNITS 1A & 1B TRANSFER FANS | 110 | .1 | <0.3 | 9.9 W | 120V - 1ø | PANASONIC FV-0511VK2 | 1-5 | |
| EF-2 | APARTMENT KITCHEN EXHAUST | 12600 | 1 | - | 7.5 HP | 480V - 3ø | COOK 300 CPS | 1,2,6,7,8,9 | |
| EF-3 | APARTMENT TOILET EXHAUST | 7700 | 1 | - | 7.5 HP | 480V - 3ø | COOK 210 CPS | 1,2,6,7,8,9 | |
| EF-4 | LAUNDRY EXHAUST | 4775 | 0.5 | - | 3.0 HP | 480V - 3ø | COOK 180 CPS | 1,2,6,7,8,9 | |
| EF-5 | COMMUNITY ROOM/JT EXHAUST | 700 | 0.375 | 11.8 | 1/3 HP | 480V - 3ø | COOK 120C ORB1 | 1,2,6,7,8,9 | |
| EF-6 | UTILITY ROOM EXHAUST | 2250 | 0.5 | 10.6 | 1/2 HP | 480V-3ø | COOK 165CSB | 1,2,6,7,8,9 | |
| EF-7 | PENTHOUSE EXHAUST | 1550 | 0.25 | 9.6 | 1/3 HP | 480V - 3ø | COOK 135C4B | 1,2,6,7,8,9 | |

- REMARKS:
- BACKDRAFT DAMPER
 - DISCONNECT SWITCH
 - CONTROLLED VIA WALL SWITCH
 - ENERGY STAR RATED
 - PROVIDE WITH RADIATION DAMPER, PANASONIC MODEL #PC-RD05CS
 - VARIABLE FREQUENCY DRIVE
 - ROOF CURB
 - VIBRATION ISOLATORS
 - CONTINUOUS OPERATION

| STAIRWELL PRESSURIZATION FAN SCHEDULE | | | | | | | | | |
|---------------------------------------|---------|------|------|---------------|--------|-----------|--------------------|---------|--|
| NO. | SERVICE | CFM | S.P. | SOUND (SONES) | POWER | ELECT. | MANUF. & MODEL NO. | REMARKS | |
| SF-1 | STAIR B | 4000 | .4 | 25.0 | 1.5 HP | 240V - 1ø | COOK 24EPS41ED17 | 1-4 | |
| SF-2 | STAIR A | 4000 | .4 | 27.0 | 1.5 HP | 240V - 1ø | COOK 30AQ11D | 1,2,3,5 | |

- REMARKS:
- BACKDRAFT DAMPER
 - DISCONNECT SWITCH
 - CONTINUOUS OPERATION
 - THRU-WALL FAN
 - ROOF CURB

| THRU-WALL AC UNIT SCHEDULE | | | | | | | | | |
|----------------------------|-----|-----------------|---------|----------|-------|--------|------------------|--------------------------|--|
| MARK | CFM | SUPPLY FAN H.P. | VOLTAGE | MCA/MOCP | TOTAL | E.E.R. | COOLING CAPACITY | MANUFACTURER & MODEL NO. | |
| AC-1 | 265 | 1/8 | 208V-1ø | 5.4/15 | 12.0 | 10.6 | | FRIEDRICH UCT12A30A | |

- REMARKS:
- WALL SLEEVE
 - CYCLE PROTECTOR
 - R-410A REFRIGERANT
 - RETURN AIR FILTERS
 - ENERGY STAR COMPLIANT
 - 7-DAY PROGRAMMABLE THERMOSTAT
 - 5-YEAR COMPRESSOR WARRANTY
 - CORD AND PLUG

| ELECTRIC BASEBOARD HEATER SCHEDULE | | | | | | | | | |
|------------------------------------|--------------|--------------|------|------|---------|------|--------------------------|--------------|---------|
| MARK | SERVICE | LENGTH (FT.) | MBH | KW | VOLTAGE | AMPS | MANUFACTURER & MODEL NO. | WEIGHT (LBS) | REMARKS |
| BBH-1 | APARTMENTS | 8 | 8.53 | 2.5 | 208V-1ø | 12.0 | QMARK 25008NW | 18.5 | 1-4 |
| BBH-2 | APARTMENTS | 8 | 6.82 | 2.0 | 208V-1ø | 9.7 | QMARK 2508W | 18.0 | 1-4 |
| BBH-3 | APARTMENTS | 5 | 4.27 | 1.25 | 208V-1ø | 6.0 | QMARK 2505NW | 11.5 | 1-4 |
| BBH-4 | APARTMENTS | 2.5 | 1.71 | 0.5 | 120V-1ø | 4.2 | QMARK 25126NW | 6.3 | 1-4 |
| BBH-5 | COMMON AREAS | 8 | 6.82 | 2.0 | 208V-1ø | 9.7 | QMARK 2508W | 18.0 | 1-4 |
| BBH-6 | COMMON AREAS | 3.0 | 2.56 | 0.75 | 208V-1ø | 3.6 | QMARK 2503NW | 7.5 | 1-4 |

- REMARKS:
- DISCONNECT SWITCH
 - BUILT-IN THERMOSTAT
 - BASEBOARD MOUNTING
 - FILLER SECTIONS & JOINER STRIPS

| GRILLE & DIFFUSER SCHEDULE | | | | | | | | | |
|----------------------------|--------------------------|---------------|--------------|----------|-------------|-------------------|--------|----------------|---------|
| MARK | MANUFACTURER & MODEL NO. | DAMPER NUMBER | FRAME/BORDER | CFM | MODULE SIZE | PATTERN | FINISH | TYPE | REMARKS |
| A | TITUS 300RS | OBD | SURFACE | AS NOTED | AS NOTED | DOUBLE DEFLECTION | WHITE | SUPPLY | - |
| B | TITUS 50F | - | SURFACE | AS NOTED | AS NOTED | EGGCRATE | WHITE | RETURN/EXHAUST | - |
| C | TITUS 0MN | OBD | LAY-IN | AS NOTED | 24"x24" | 4-WAY | WHITE | SUPPLY | - |

- NOTES:
- EQUVALENT DIFFUSER SHALL HAVE MAXIMUM NC RATING OF 30 FOR CFM LISTED ON PLAN.
 - SUBMITTALS MUST IDENTIFY DIFFUSER LOCATION BY ROOM NUMBER, TYPE AND CEILING CONSTRUCTION.
 - ALL FRAME TYPES SHALL BE COMPATIBLE WITH ADJACENT CONSTRUCTION. REFER TO ARCHITECTURAL PLANS FOR CONSTRUCTION DETAILS.
 - PAINT INTERIOR OF DUCTWORK BEHIND GRILLES AND DIFFUSERS FLAT BACK IF VISIBLE THROUGH DEVICE.
 - PROVIDE SQUARE TO ROUND NECK TRANSITIONS WHERE ROUND DUCT SERVE SQUARE NECK DIFFUSERS OR GRILLES.

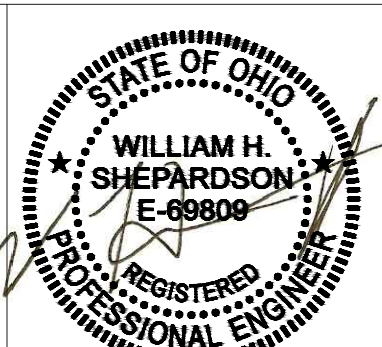
| ELECTRIC UNIT HEATER SCHEDULE | | | | | | | | | |
|-------------------------------|------------------------|------|-------|------|---------|------|--------------------------|--------------|---------|
| MARK | SERVICE | CFM | MBH | KW | VOLTAGE | AMPS | MANUFACTURER & MODEL NO. | WEIGHT (LBS) | REMARKS |
| EUH-1 | 2ND-15TH FLOOR SEATING | 1000 | 68.24 | 20.0 | 480V-3ø | 26.0 | QMARK CUG78 | 300 | 1-5 |

- REMARKS:
- DISCONNECT SWITCH
 - BUILT-IN THERMOSTAT
 - CABINET UNIT HEATER
 - FRESH AIR DUCT INLET
 - SECURITY FRONT COVER

| DUCTLESS AIR HANDLER & HEAT PUMP SCHEDULE | | | | | | | | | | | | | | | | | | |
|---|--------|------------|--------------|--------------|-------------|----------|------------------------|-----------------------------|----------------------------|-------------|--------|--------------|----------------|-------------|-------------|------|------------------------|------------------------|
| MARK | | SERVING | OUTDOOR UNIT | | | | | | | INDOOR UNIT | | | | | | | | |
| OUTDOOR | INDOOR | | MANUF. | MODEL NUMBER | VOLTAGE | MCA/MOCP | COOLING CAPACITY (MBH) | HEATING CAPACITY 47°F (MBH) | HEATING CAPACITY 5°F (MBH) | SEER2/HSPF2 | MANUF. | MODEL NUMBER | TYPE | CFM (H/M/L) | VOLTAGE | AMPS | COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) |
| HP-A | AC-A | FITNESS | LG | LUU090HV | 208/230V-1ø | 11.9/15 | 9.0 | 11.0 | 10.1 | 20.20/10.55 | LG | LCN098HV4 | 4-WAY CASSETTE | 300/265/230 | 208/230V-1ø | 0.25 | 9.0 | 10.4 |
| HP-B | AC-B | MAIL ROOM | LG | LUU090HV | 208/230V-1ø | 11.9/15 | 9.0 | 11.0 | 10.1 | 20.20/10.55 | LG | LCN098HV4 | 4-WAY CASSETTE | 300/265/230 | 208/230V-1ø | 0.25 | 9.0 | 10.4 |
| HP-C | AC-C1 | CONFERENCE | LG | LMU183HV | 208/230V-1ø | 15.8/20 | 18.0 | 22.0 | 17.7 | 22.5/9.6 | LG | LMCN078HV | 4-WAY CASSETTE | 265/212/177 | 208/230V-1ø | 0.25 | 7.0 | 8.1 |
| | AC-C2 | CONFERENCE | | | | | | | | | LG | LMCN078HV | 4-WAY CASSETTE | 265/212/177 | 208/230V-1ø | 0.25 | 7.0 | 8.1 |

- NOTES:
- PROVIDE ALL ACCESSORIES FOR A COMPLETE INSTALLATION (OUTDOOR HEAT PUMP PLATFORM, FORTRESS LINESSET COVER, LOW AMBIENT HEAT KIT, DRAIN PAN HEATER, CONDENSATE PUMP, LINESETS, WIRED THERMOSTAT, ETC.) AND INSTALL PER MANUFACTURER'S DIAGRAMS.
 - EQUIPMENT SHALL HAVE HIGH HEAT CAPACITY AT LOW AMBIENT TEMPERATURE.

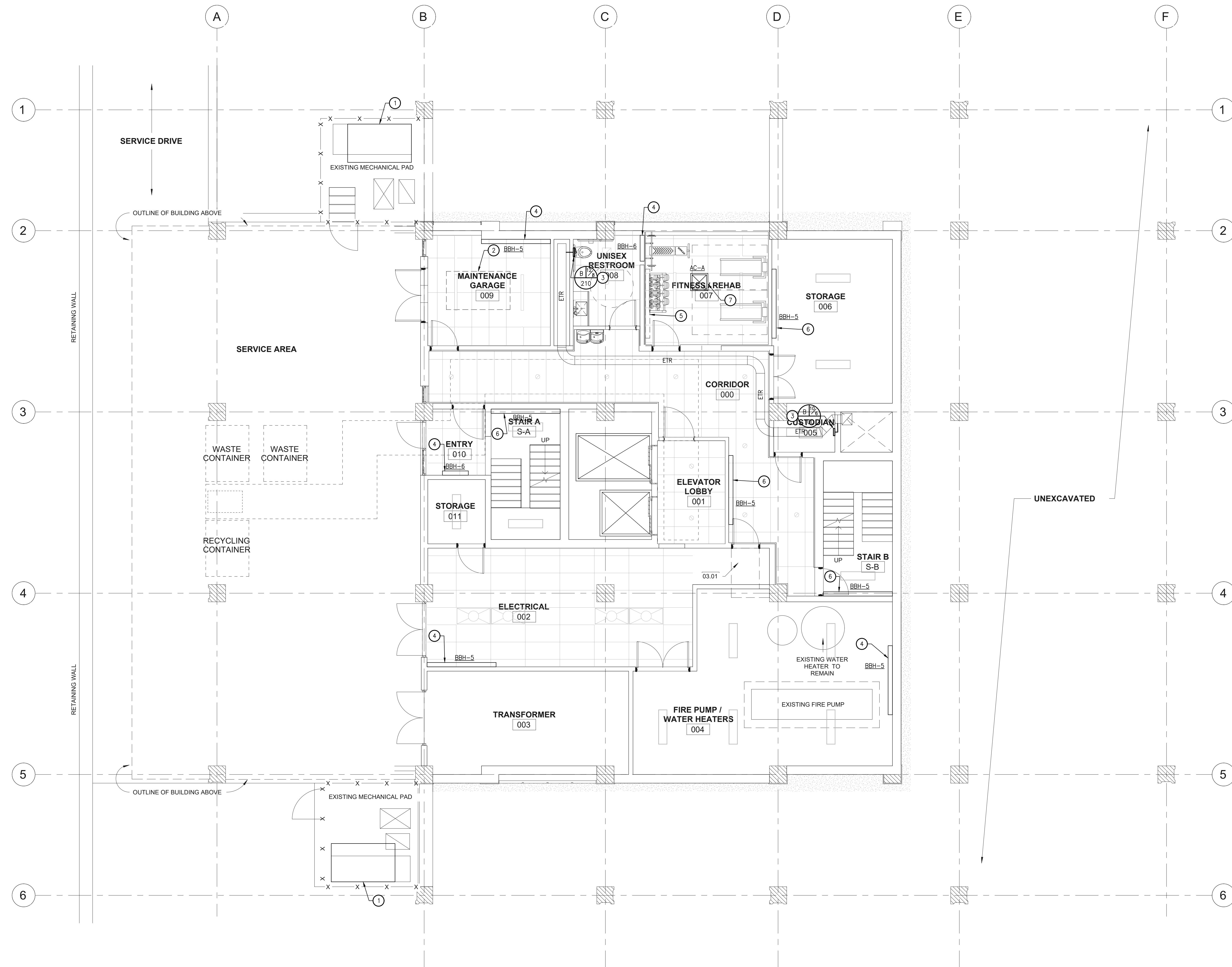
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| Δ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



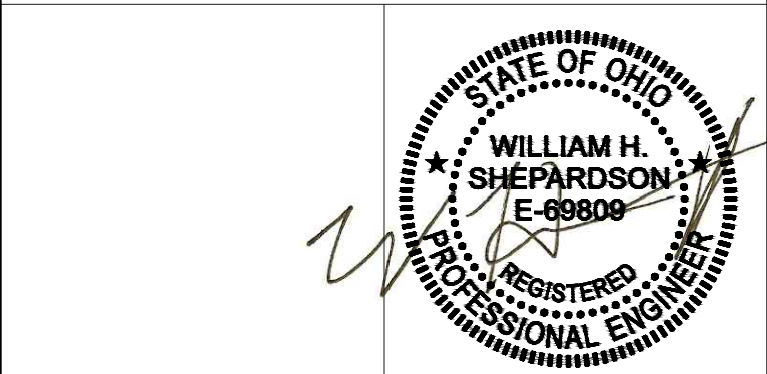
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CODED NOTES:

- ① EXISTING GRADE-MOUNTED RTU TO REMAIN. SERVICE AND MAINTAIN AS REQUIRED.
- ② EXISTING GENERATOR TO BE REMOVED COMPLETE.
- ③ EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- ④ EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW.
- ⑤ EXISTING BASEBOARD HEATER TO BE REMOVED COMPLETE.
- ⑥ INSTALL NEW ELECTRIC BASEBOARD HEATER PER MANUFACTURER'S INSTRUCTIONS.
- ⑦ INSTALL MINISPLIT CASSETTE UNIT PER MANUFACTURER'S INSTRUCTIONS. ROUTE CONDENSATE TO EXTERIOR AND DAYLIGHT TO LANDSCAPING.



1 BASEMENT MECHANICAL PLAN
M1.01 SCALE: 3/16" = 1'-0" NORTH



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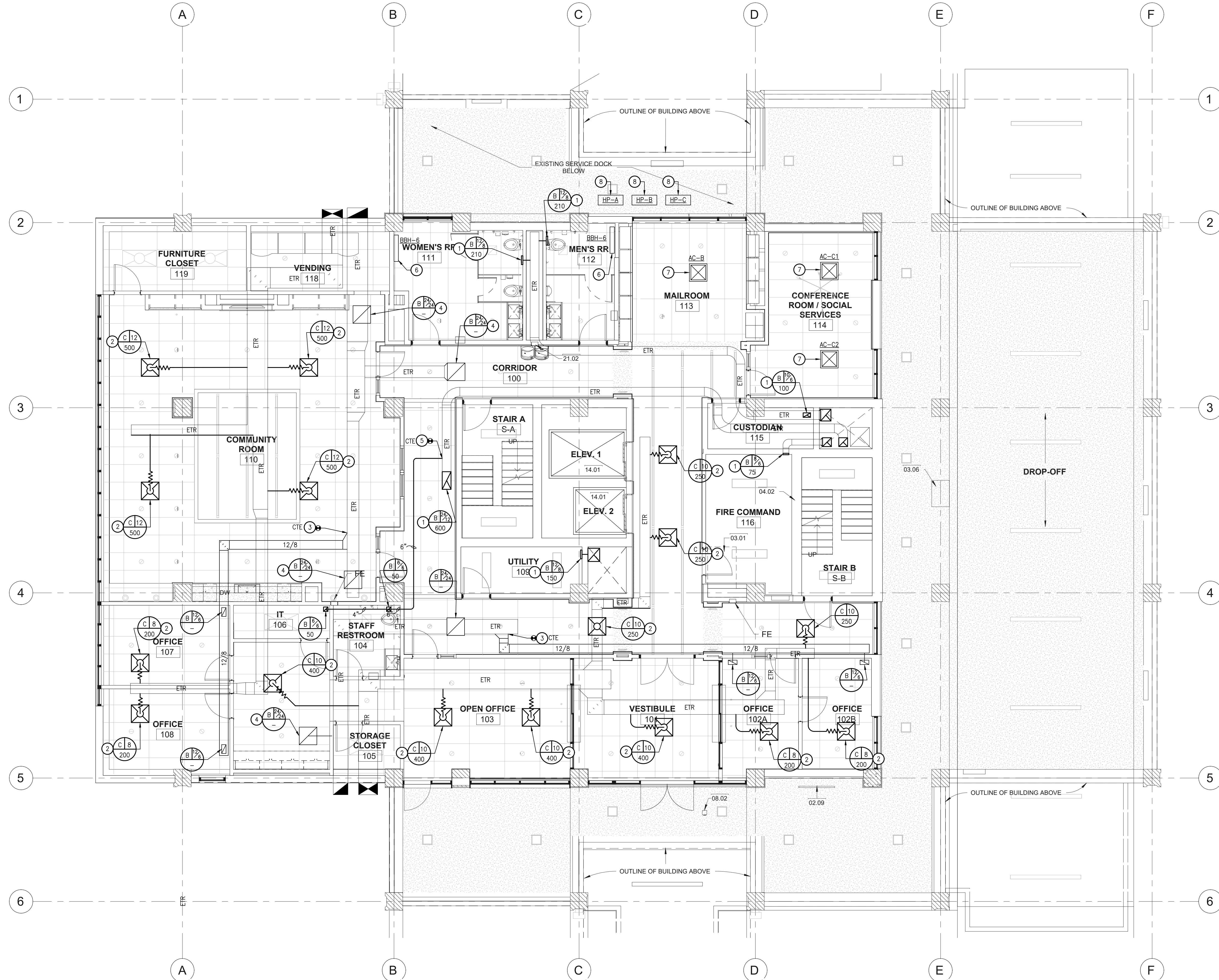
LDA Project No.23.47

BASEMENT MECHANICAL PLAN
M1.01

NOTE:
ALL EXISTING SUPPLY AND RETURN GRILLES ARE TO BE REMOVED COMPLETE BACK TO THEIR RESPECTIVE MAINS AND REPLACED WITH NEW GRILLES AND BRANCH DUCTS.

CODED NOTES:

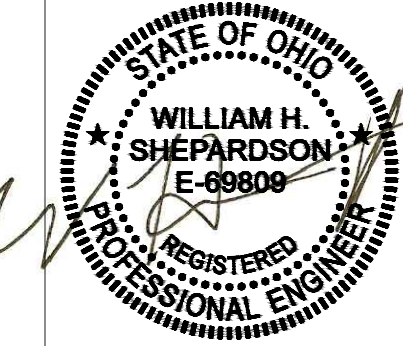
- ① EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- ② EXTEND NEW BRANCH DUCT TO EXISTING SUPPLY AIR MAIN. COORDINATE EXACT LOCATION IN FIELD.
- ③ CONNECT NEW RETURN AIR DUCT TO EXISTING MAIN IN AREA. COORDINATE EXACT LOCATION IN FIELD.
- ④ EXTEND NEW BRANCH DUCT TO EXISTING RETURN AIR MAIN IN AREA. COORDINATE EXACT LOCATION IN FIELD.
- ⑤ CONNECT NEW EXHAUST DUCT TO EXISTING MAIN IN AREA. COORDINATE EXACT LOCATION IN FIELD.
- ⑥ EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW.
- ⑦ INSTALL MINISPLIT CASSETTE UNIT PER MANUFACTURER'S INSTRUCTIONS. ROUTE CONDENSATE TO EXTERIOR AND DAYLIGHT TO LANDSCAPING.
- ⑧ INSTALL MINISPLIT OUTDOOR UNIT ON HEAT PUMP RISER OR WALL MOUNT BRACKET PER MANUFACTURER'S INSTRUCTIONS.



1 GROUND FLOOR MECHANICAL PLAN
M1.02 SCALE: 3/16" = 1'-0"
NORTH

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Phone: 216 227 8505



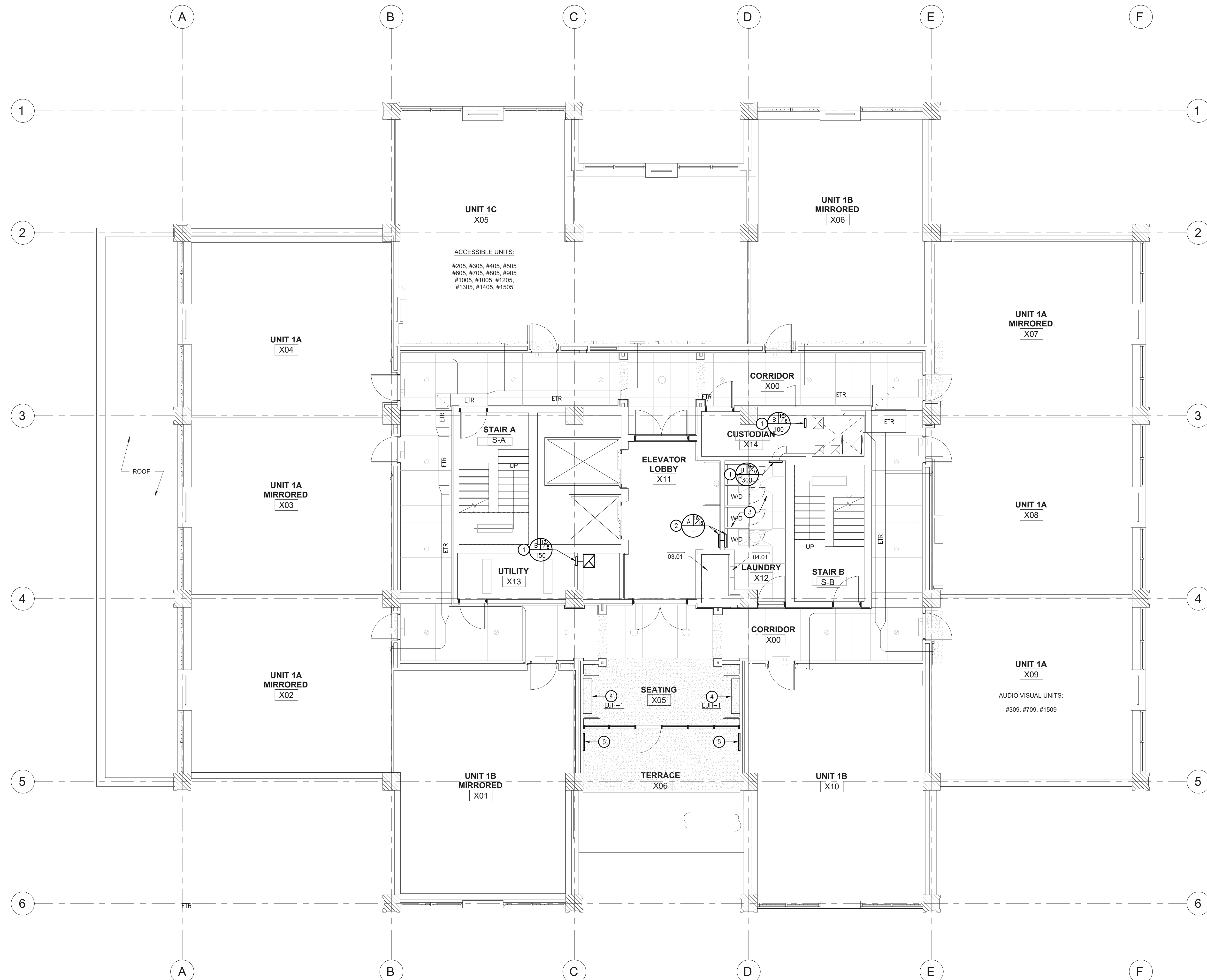
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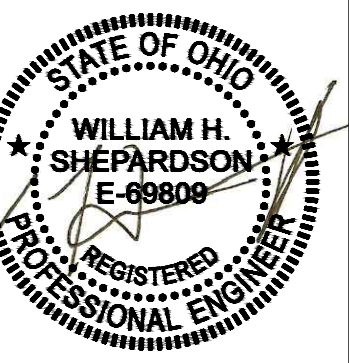
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CODED NOTES:

- ① EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- ② EXISTING TRANSFER GRILLE TO BE REMOVED AND REPLACED WITH NEW.
- ③ EXISTING DRYER EXHAUST SYSTEM TO REMAIN.
- ④ EXISTING UNIT HEATER TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING FRESH AIR DUCT IN AREA.
- ⑤ EXISTING FRESH AIR INTAKE GRILLE FOR UNIT HEATER TO BE REMOVED AND REPLACED WITH NEW.



1 2ND-15TH FLOOR MECHANICAL PLAN
M1.03/ SCALE: 3/16" = 1'-0" NORTH



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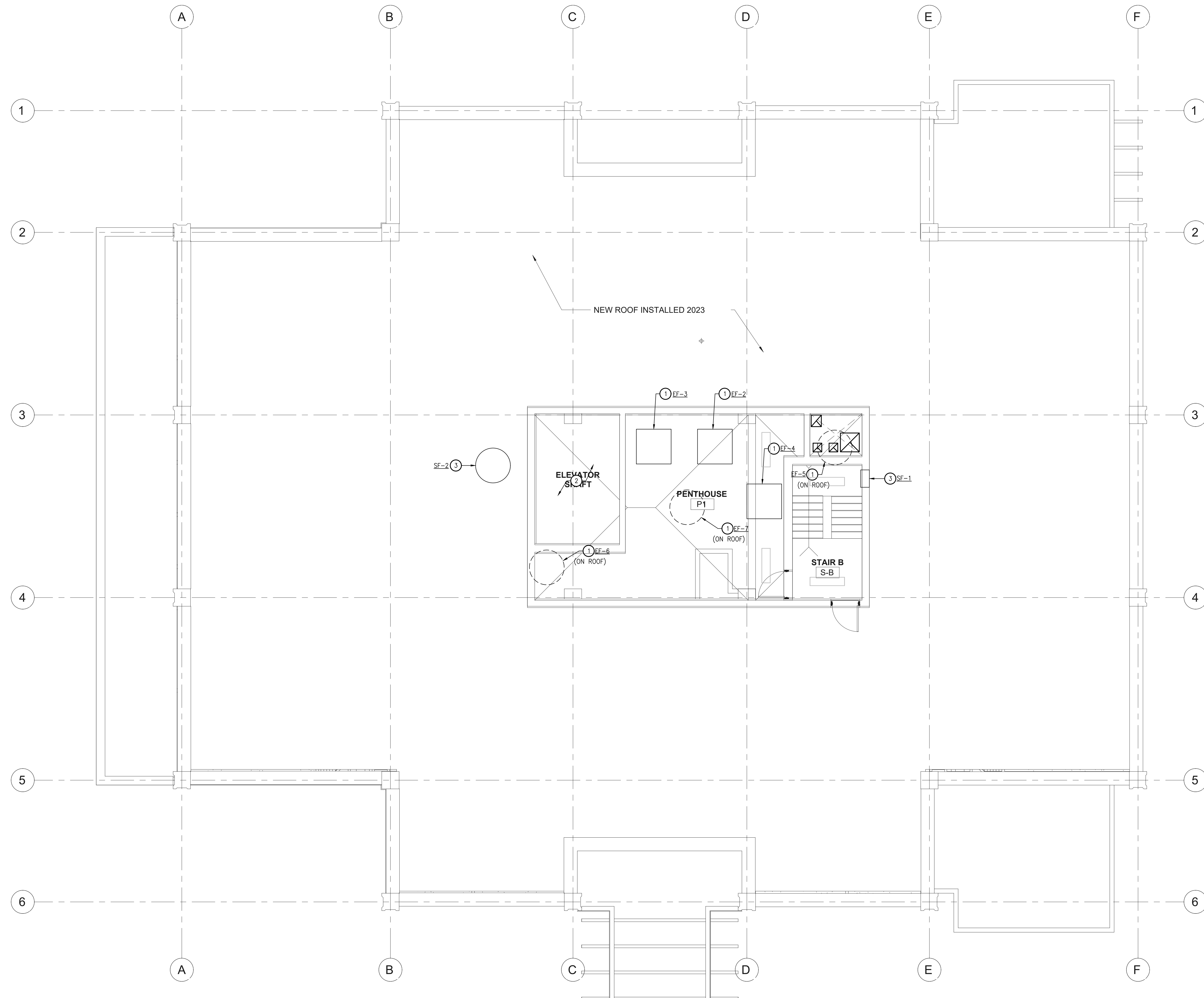
TYPICAL FLOORS 2-15
MECHANICAL PLAN

M1.03

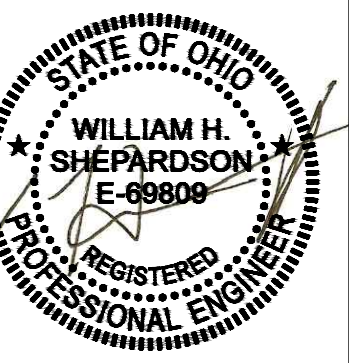
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CODED NOTES:

- ① EXISTING EXHAUST FAN TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING DUCTWORK IN AREA.
- ② EXISTING MINISPLIT FOR ELEVATOR MACHINE ROOM COOLING TO REMAIN. SERVICE AND MAINTAIN AS REQUIRED.
- ③ EXISTING STAIRWELL PRESSURIZATION FAN TO BE REMOVED AND REPLACED WITH NEW.



① 2ND-15TH FLOOR MECHANICAL PLAN
M1.03/ SCALE: 3/16" = 1'-0" NORTH



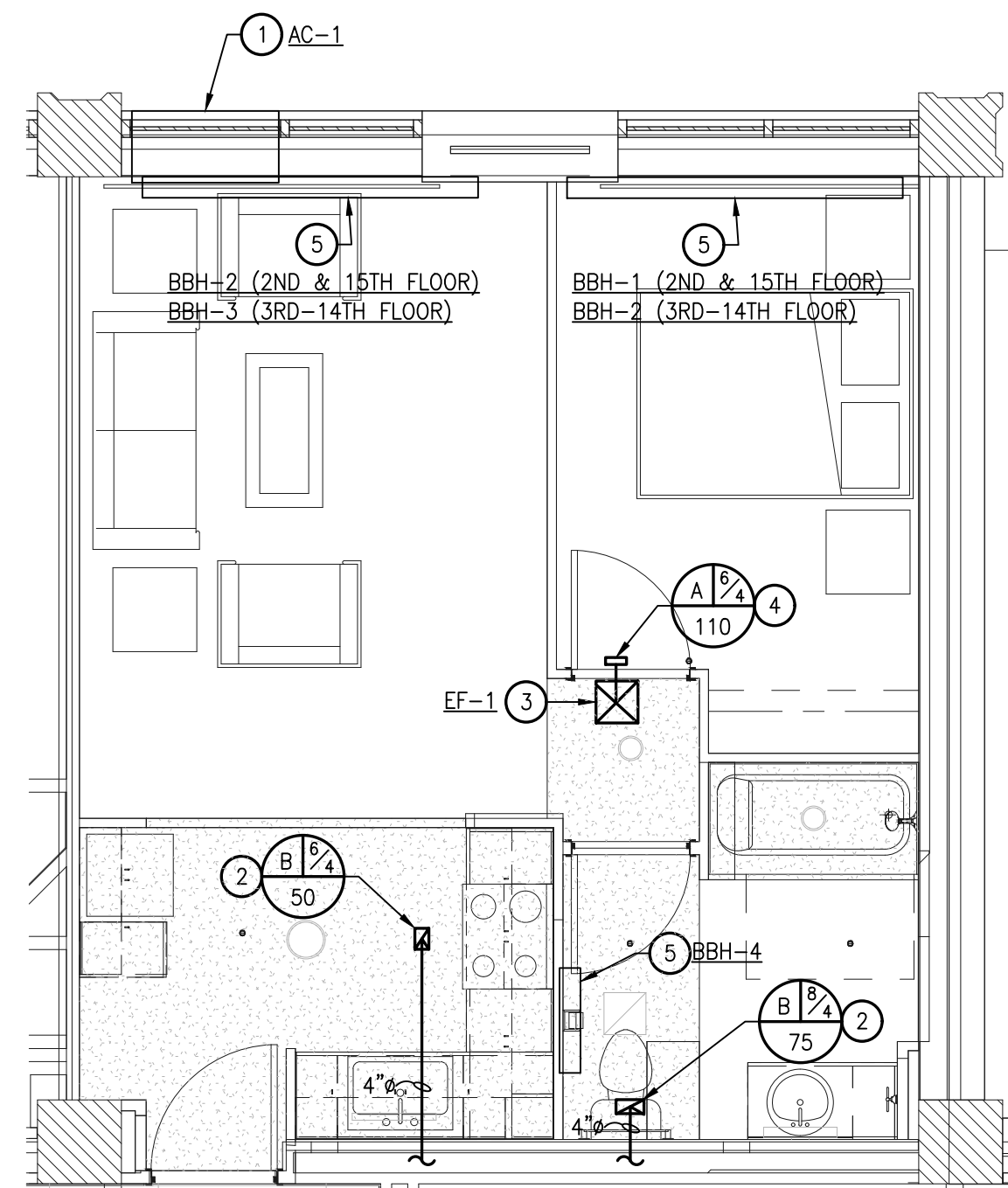
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PENTHOUSE MECHANICAL PLAN
M1.04

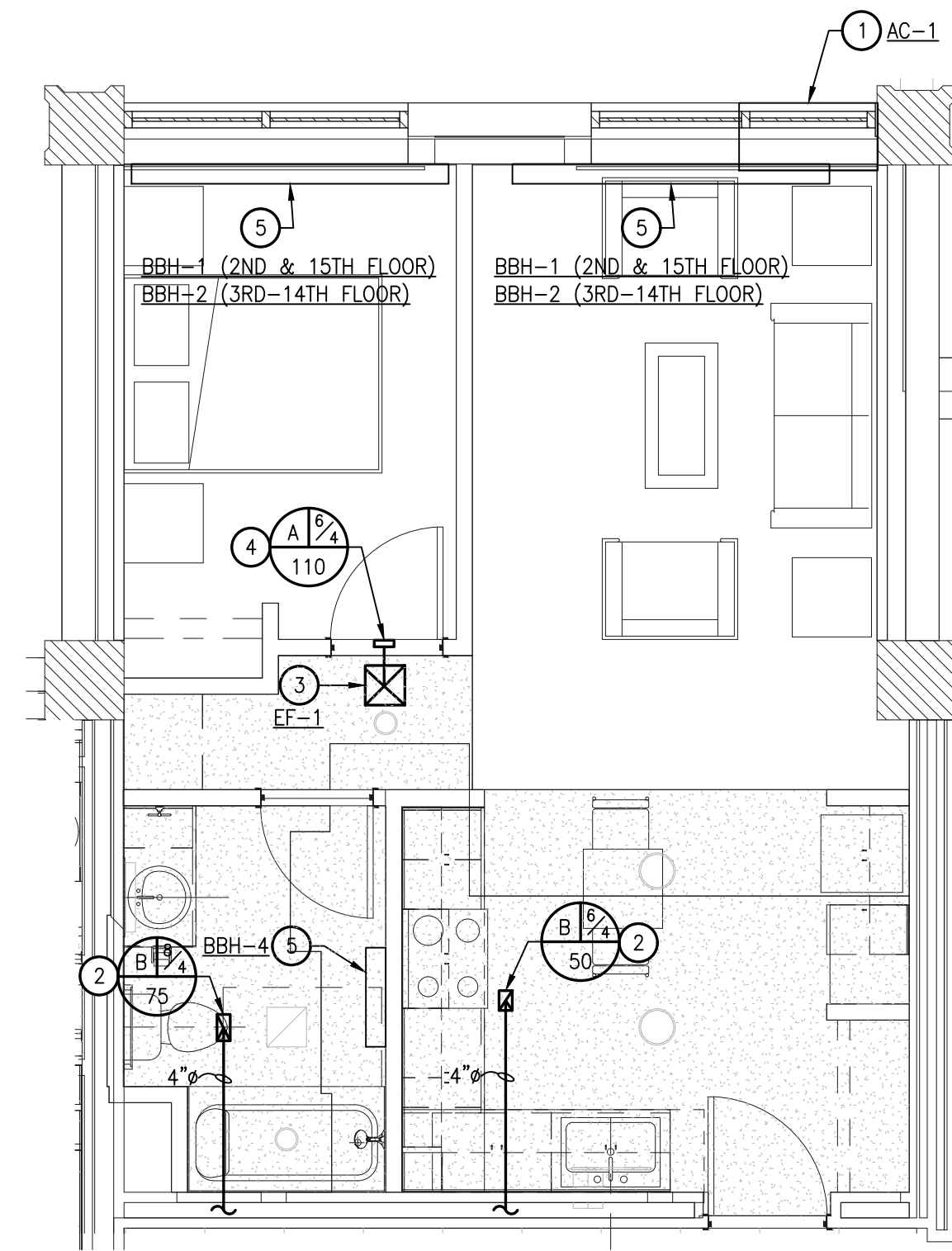
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| | 2024.02.02 | ISSUED FOR OHFA |
| | 2024.03.22 | ISSUED FOR PERMIT |
| Δ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



1 UNIT TYPE 1A MECHANICAL PLAN
M2.01 SCALE: 1/4" = 1'-0"

CODED NOTES:

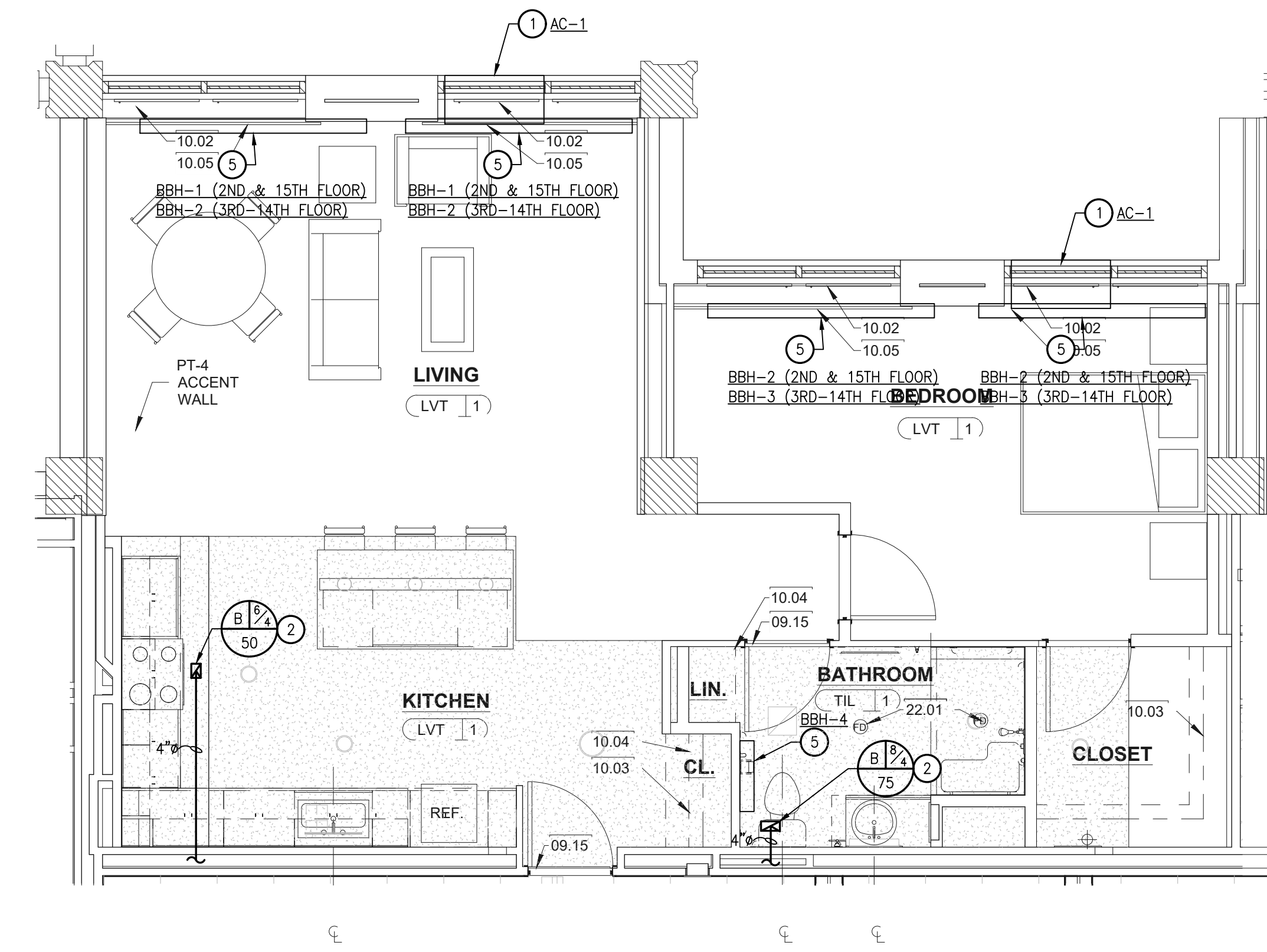
- 1 EXISTING PTAC TO BE REMOVED AND REPLACED WITH NEW. PROVIDE WITH NEW WALL SLEEVE.
- 2 EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- 3 EXISTING TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING DUCTWORK IN AREA.
- 4 EXISTING SUPPLY GRILLE FROM TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW.
- 5 EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW.



2 UNIT TYPE 1B MECHANICAL PLAN
M2.01 SCALE: 1/4" = 1'-0"

CODED NOTES:

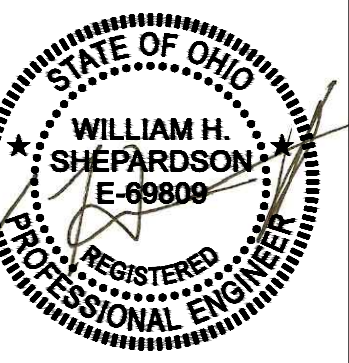
- 1 EXISTING PTAC TO BE REMOVED AND REPLACED WITH NEW. PROVIDE WITH NEW WALL SLEEVE.
- 2 EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- 3 EXISTING TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING DUCTWORK IN AREA.
- 4 EXISTING SUPPLY GRILLE FROM TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW.
- 5 EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW.



3 UNIT TYPE 1C MECHANICAL PLAN
M2.01 SCALE: 1/4" = 1'-0"

CODED NOTES:

- 1 EXISTING PTAC TO BE REMOVED AND REPLACED WITH NEW. PROVIDE WITH NEW WALL SLEEVE.
- 2 EXISTING EXHAUST GRILLE TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING EXHAUST DUCTWORK IN AREA. RELOCATE AND REWORK EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- 3 EXISTING TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW. CONNECT TO EXISTING DUCTWORK IN AREA.
- 4 EXISTING SUPPLY GRILLE FROM TRANSFER FAN TO BE REMOVED AND REPLACED WITH NEW.
- 5 EXISTING BASEBOARD HEATER TO BE REMOVED AND REPLACED WITH NEW.



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

TYPICAL UNIT MECHANICAL PLAN

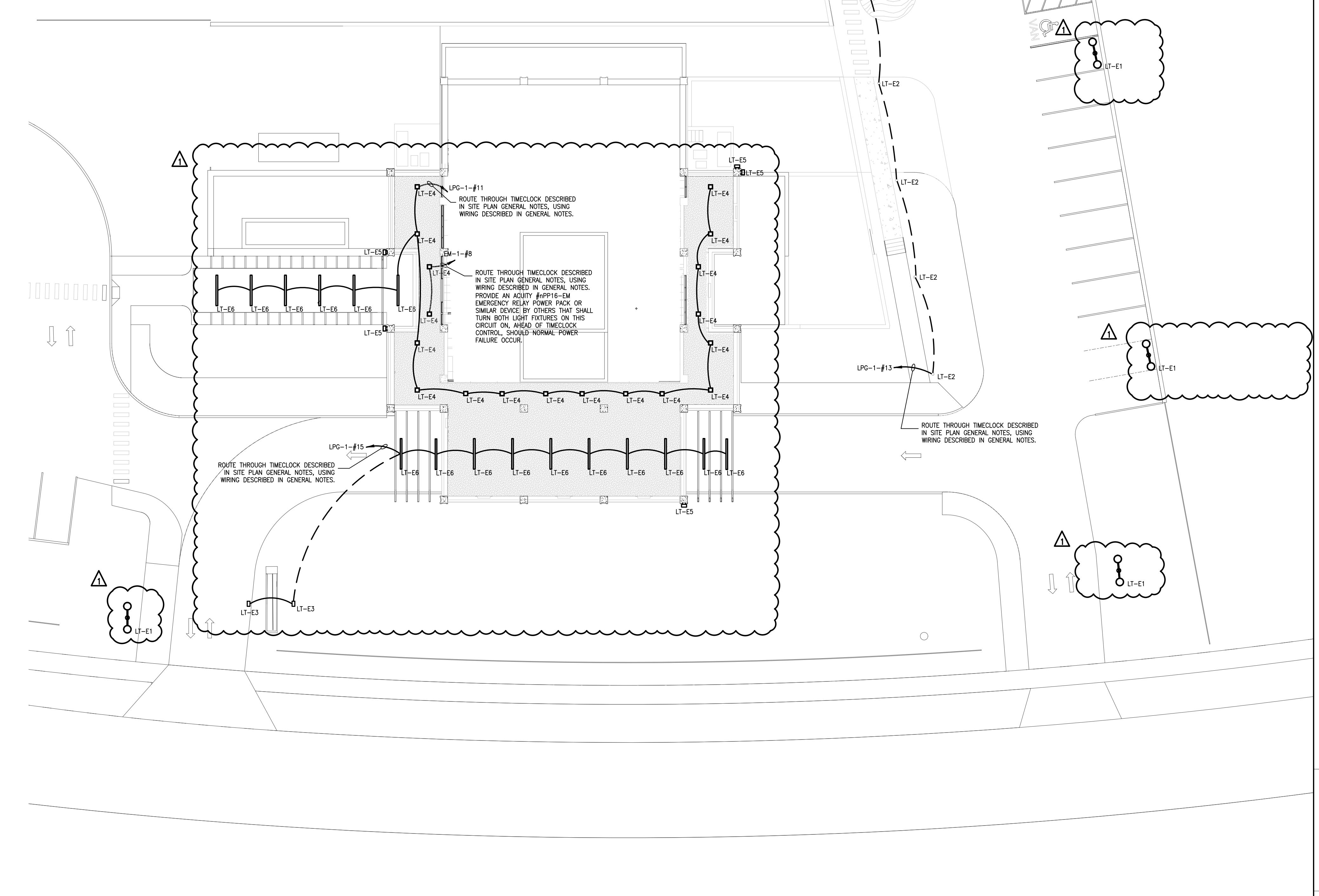
M2.01

| REV | DATE | DESCRIPTION |
|------------|------|------------------------|
| 2023.12.18 | | ISSUED FOR 50% PACKAGE |
| 2024.02.02 | | ISSUED FOR OHFA |
| 2024.03.22 | | ISSUED FOR PERMIT |
| 2024.04.12 | | ISSUED FOR ADDENDUM 1 |

| SITE LUMINAIRE SCHEDULE | | | | | | |
|-------------------------|-------------------|---------------------------|---------|---|--|--|
| TYPE | LAMP | WATTAGE | VOLTAGE | DESCRIPTION | CATALOG NUMBER | REMARKS |
| LT-E1 | LED 5000K | SHALL NOT EXCEED EXISTING | 120 | EXISTING SITE POLE FIXTURE TO BE RELAMPED. | - | THE E.C. SHALL BE RESPONSIBLE FOR SELECTING A COMPATIBLE LAMP THAT DOES NOT EXCEED THE EXISTING WATTAGE NOR HAVE LESS LUMEN OUTPUT THAN THE EXISTING LAMP. |
| LT-E2 | LED 3000K 1120L | 39 | 120 | LED 8" ROUND TOP BOLLARD. | LITHONIA LIGHTING #K8A8-LED | |
| LT-E3 | LED 30K-50K 1500L | 30 | 120 | LED IN-GROUND UPLIGHT WITH SELECTABLE LUMEN OUTPUT AND CCT FOR MONUMENT SIGN. | LITHONIA LIGHTING #ESXF1 | TURN PHOTOCELL OFF ON FIXTURE. SELECT COLOR TEMPERATURE AND LUMEN OUTPUT SWITCHES ON FIXTURE TO OWNER'S APPROVAL. |
| LT-E4 | LED 5000K 4500L | 52 | 120 | LED EXTERIOR RATED CANOPY LIGHT. | LITHONIA LIGHTING #CNY-LED-P1-50K-MVOLT-DOB | |
| LT-E5 | LED 5000K | SHALL NOT EXCEED EXISTING | 120 | LED EXTERIOR SCENCE. | FIXTURE TO BE SELECTED BY ARCHITECT AND PROVIDED AND INSTALLED BY E.C. | MAINTAIN EXISTING MEANS OF CONTROL. |
| LT-E6 | LED 5000K 8600L | 54 | 120 | LED EXTERIOR RATED 8'-0" LINEAR FIXTURE. | ALCON LIGHTING #12100-41-S-D-D6-S8-50K-010-BK-8 | |

LUMINAIRE SCHEDULE GENERAL NOTES:

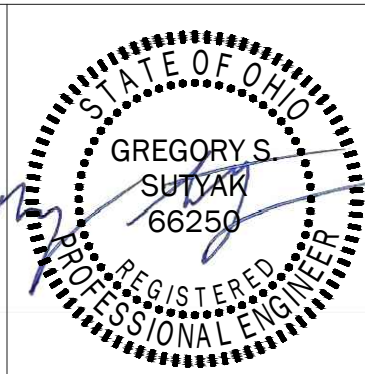
- VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT/OWNER PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE AFOREMENTIONED PARTIES.
- PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND ENSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
- NOT USED.
- VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
- ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT/OWNER PRIOR TO FINAL BID PRICING.
- SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS CUT SHEET SUBMITTAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.
- ANY FINAL SELECTED/INSTALLED LIGHT FIXTURES WITHOUT A SPECIFICATION (OR TO BE SPECIFIED LATER BY ARCHITECT/OWNER) LISTED IN THIS SCHEDULE SHALL NOT EXCEED THE WATTAGE LISTED, SHALL NOT HAVE A LOWERED DELIVERED LUMENS (IF LISTED), AND SHALL MATCH THE COLOR TEMPERATURE (IF LISTED).



1 ELECTRICAL SITE PLAN
ES.01 SCALE: 1/16" = 1'-0"

GENERAL ELECTRICAL SITE PLAN NOTES

- VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS, AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID.
- ALL BUILDING, SIGN, AND SITE LIGHTING BRANCH CIRCUITING SHALL BE 2#8, 1#10(G), IN 1" CONDUIT.
- MINIMUM SITE CONDUIT SIZE SHALL BE 1" U.N.O. PROVIDE PULL-WIRE IN ALL CONDUIT ONLY RUNS. USE RGS WHERE EXPOSED AND SUBJECT TO PHYSICAL ABUSE. PROVIDE SCH-40 PVC BELOW GRADE OR UNDER GROUND. TRANSITION TO RGS PRIOR TO TURNING UP OR ENTERING BUILDING, STRUCTURES OR EQUIPMENT.
- PROVIDE A QUAD CIRCUIT, ASTRONOMIC 7-DAY TIMECLOCK (TYPICALLY INTERMATIC #ET90415C) FOR CONTROL OF NEW EXTERIOR LIGHT FIXTURES. ROUTE ALL NEW BRANCH CIRCUITS THROUGH THIS TIMECLOCK. INSTALL ADJACENT TO PANEL LPG-1 OR IN OTHER LOCATION APPROVED BY OWNER.



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

PART 1 – ELECTRICAL GENERAL PROVISIONS

1.1 RELATED DOCUMENTS

- A. THE PROVISIONS OF THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, ALTERNATES, ADDENDAS', AND DIVISION 1 ARE A PART OF THIS SPECIFICATION. CONTRACTORS AND SUBCONTRACTORS SHALL EXAMINE SAME AS WELL AS OTHER DIVISIONS OF THE SPECIFICATIONS WHICH AFFECT WORK UNDER THIS DIVISION.

1.2 SUMMARY

- A. THIS SECTION INCLUDES GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR ELECTRICAL INSTALLATIONS COMMON TO ALL SECTIONS OF DIVISION 16. THE ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS IN THIS SECTION EXPAND AND SUPPLEMENT THE REQUIREMENTS SPECIFIED IN DIVISION 1.

1.3 DESCRIPTION OF WORK

- A. ELECTRICAL, ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, STRUCTURAL, ETC., AND ALL OTHER DRAWINGS AS WELL AS THE SPECIFICATIONS FOR ALL THE DIVISIONS ARE A PART OF THE CONTRACT DOCUMENTS.
- B. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER. WORK SPECIFIED BUT NOT SHOWN, OR SHOWN BUT NOT SPECIFIED, SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED AS SUCH IN THE SPECIFICATIONS AND DRAWINGS.
- C. VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.

1.4 WORK INCLUDES

- A. INCLUDE ALL LABOR, MATERIAL, EQUIPMENT, SERVICES, AND PERMITS NECESSARY FOR THE PROPER COMPLETION OF ALL ELECTRICAL WORK. WORK, ITEMS OMITTED, BUT NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE, SHALL BE UNDERSTOOD TO FORM PART OF THE WORK.
- B. IT IS THE PURPOSE OF THE ELECTRICAL DRAWINGS TO INDICATE THE APPROXIMATE LOCATION OF ALL EQUIPMENT, OUTLETS, ELECTRICAL FIXTURES AND ARRANGE WORK ACCORDINGLY. THE RIGHT IS RESERVED TO EFFECT REASONABLE CHANGES IN THE LOCATION OF OUTLETS UP TO THE TYPE OF ROUTING-IN, WITHOUT ADDITIONAL COST TO THE OWNER. CHANGES IN LOCATION OF OUTLETS OR EQUIPMENT NECESSITATED BY INTERFERENCE WITH THE WORK OF OTHER TRADES SHALL BE MADE AT THE OPTION OF THE ARCHITECT AND ENGINEER OR OWNER'S REPRESENTATIVE, AND AT NO ADDITIONAL COST.
- C. AS USED IN THIS SPECIFICATION, "PROVIDE" MEANS "FURNISH AND INSTALL" AND "HVAO" MEANS "HEATING, VENTILATING AND AIR CONDITIONING" AND "POB" MEANS "PROVIDED UNDER OTHER SECTIONS". "FURNISH" MEANS TO PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE, WITH EVERY NECESSARY APPURTENANCE AND SUPPORT, AND "INSTALL" MEANS TO UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY FOR PROPER INSTALLATION PER CODES AND MANUFACTURER'S REQUIREMENTS, TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT."

- D. WORK INCLUDES, BUT IS NOT LIMITED TO:
 1. RE-USE OF AND NEW PANELBOARDS AND CIRCUIT BREAKERS.
 2. FEEDERS AND BRANCH CIRCUIT WIRING.
 3. HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS.
 4. ELECTRICAL IDENTIFICATION.
 5. CONDUCTORS AND CABLES.
 6. GROUNDING AND BONDING.
 7. RACEWAYS AND BOXES.
 8. WIRING DEVICES.
 9. LIGHTING CONTROL DEVICES.
 10. LUMINAIRES, INCLUDING NEW LAMPS, BALLASTS, AND DRIVERS.
 11. REWORKING AND NEW DEVICES TO THE EXISTING FIRE ALARM SYSTEM.
 12. FIRE STOPPING.
 13. ELECTRICAL CONNECTIONS TO MECHANICAL, HVAC, AND PLUMBING EQUIPMENT.
 14. EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM.
 15. METER SOCKETS AND C.T. CABINETS.
 16. NAMEPLATES, LABELS, AND TAGS.
 17. COORDINATION DRAWINGS.
 18. SHOP DRAWINGS.
 19. OPERATION AND MAINTENANCE INSTRUCTIONS AND MANUALS.
 20. TESTING.

- E. THE ELECTRICAL DESIGN IS BASED ON THE CURRENT ADOPTEDITION NFPA 70 – THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF INSTALLING MATERIALS AND EQUIPMENT NECESSARY TO SATISFY ALL LOCAL, AND/OR STATE CODES.

1.5 WORK OR MATERIALS NOT INCLUDED

- A. THE EXACT WIRING REQUIREMENTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT AND SHALL BE VERIFIED BY THE ELECTRICAL CONTRACTOR WITH THE MANUFACTURER BEFORE SUBMITTING THE BID.
- B. STARTERS SUPPLIED AS AN INTEGRAL PART OF THE EQUIPMENT SHALL BE FURNISHED UNDER THE DIVISION PROVIDING THE EQUIPMENT. POWER WIRING DISCREPANCY SHALL BE UNDER DIVISION 16. ALL OTHER STARTERS AND AUXILIARY CONTROL EQUIPMENT SHALL BE SUPPLIED AND WIRED UNDER DIVISION 16, UNLESS OTHERWISE SHOWN.

1.6 RELATED WORK SPECIFIED ELSEWHERE

- A. DIVISION 13 – SPECIAL CONSTRUCTION
- B. DIVISION 15 – MECHANICAL

1.7 CODES, PERMITS, AND FEES

- A. INSTALL WORK IN FULL ACCORDANCE WITH RULES AND REGULATIONS OF STATE, COUNTY, AND CITY AUTHORITIES HAVING JURISDICTION (AHJ) OVER PREMISES. THIS SHALL INCLUDE SAFETY REQUIREMENTS OF THE STATE OF OHIO. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES.
- B. GIVE PROPER AUTHORITIES NOTICE AS REQUIRED BY LAW RELATIVE TO THE WORK IN THEIR CHARGE. COMPLY WITH THE REGULATIONS REGARDING TEMPORARY ENCLOSURES, OBSTRUCTIONS, OR EXCAVATIONS AND PAY ALL LEGAL FEES INVOLVED.
- C. SECURE AND PAY FOR PERMITS AND CERTIFICATES OF INSPECTIONS INCIDENTAL TO THIS WORK, AS REQUIRED BY ALL FOREIGN AUTHORITIES, BE RESPONSIBLE FOR PAYMENTS TO ALL PUBLIC UTILITIES FOR WORK PERFORMED BY THEM IN CONNECTION WITH PROVISION OF SERVICE CONNECTIONS UNDER THIS DIVISION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY CERTIFICATES OF APPROVAL TO THE CONSTRUCTION MANAGER AND/OR OWNER PROMPTLY WHEN RECEIVED, AND BEFORE PAYMENT IS MADE FOR THE WORK. DELIVER ALL CERTIFICATES TO ARCHITECT IN DUPLICATE.
- D. PROVIDE THE LATEST REVISIONS TO THE FOLLOWING CODES AND STANDARDS SHALL BE FOLLOWED WHERE APPLICABLE:
 1. OHIO ADOPTED STATE BUILDING CODES.
 2. CITY OF CINCINNATI BUILDING CODES.
 3. HAMILTON COUNTY BUILDING CODES.
 4. NFPA 70 – NATIONAL ELECTRICAL CODE (NEC).
 5. NFPA 101 – LIFE SAFETY CODE.
 6. IA/EXA – 568, 569, AND J–STD–607.
 7. TRAVERSIA WITH DISABILITIES ACT (ADA).
 8. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).

1.8 COORDINATION WITH OTHER TRADES

- A. PRIOR TO ROUGH-IN, CONSULT THE DRAWINGS, PRODUCT DATA, AND SHOP DRAWING SUBMITTALS COVERING THE WORK FOR OTHER TRADES, THE FIELD LAYOUTS OF THE CONTRACTORS FOR THE OTHER TRADES AND MAKE ADJUSTMENTS ACCORDINGLY IN LAYING OUT AND INSTALLING THE ELECTRICAL WORK.
- B. KEEP FULLY INFORMED OF THE PROGRESS OF THE GENERAL CONSTRUCTION. INSTALL WORK THAT IS TO BE CONCEALED WITHIN THE BUILDING CONSTRUCTION IN SUFFICIENT TIME TO SECURE PROPER LOCATION WITHOUT DELAY TO THE WORK OF OTHER TRADES. ALL CONDUIT AND OUTLET BOXES CONCEALED IN MASONRY SHALL BE INSTALLED DURING WALL CONSTRUCTION. ATTEND TO ELECTRICAL WORK DURING THE PROGRESS OF BUILDING-IN TO PREVENT MISALIGNMENTS AND DAMAGES TO THE ELECTRICAL WORK.
- C. PROVIDE THE WORK OF OTHER TRADES IN CONTACT WITH, OR IS COVERED BY WORK IN THIS DIVISION, DO NOT ATTEMPT TO COVER UP, OR FINISH AGAINST ANY DEFECTIVE WORK, OR INSTALL WORK IN A MANNER WHICH WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES.
- D. ALL OUTLETS, SWITCHES, AND RECEPTACLES SHALL BE CENTERED WITH REGARD TO PANELING, WALL COVERINGS, TRIM, EQUIPMENT, ETC., AND SHALL LINE UP WITH EITHER BOTTOM OR TOP OF MASONRY COURSES. CHANGES TO THE SPECIFIED MOUNTING HEIGHTS OF ANY DEVICE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE ROUGH-IN.
- E. TAKE ALL FIELD MEASUREMENTS NECESSARY AND ASSUME RESPONSIBILITY FOR THEIR ACCURACY.
- F. BEFORE BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE TO THE MECHANICAL CONTRACTOR, MARKED-UP PRINTS INDICATING ALL ELECTRICAL ITEMS WHICH AFFECT THE LOCATION OF HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK. THESE SHALL INCLUDE BUT NOT BE LIMITED TO:
 1. LOCATION OF ALL HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK.
 2. LOCATION OF ALL HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK.
 3. LOCATION OF ALL HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK.
 4. LOCATION OF ALL HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK.
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 20. LOCATION OF ALL HEATING, VENTILATING, AIR CONDITIONING, FURNISH, PIPING, AND DUCTWORK.

1.9 EQUIPMENT AND MATERIALS

- A. ALL EQUIPMENT, DEVICES, AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND U.L. LISTED AND LABELED FOR THE APPLICATION.
- B. PROVIDE MATERIAL AND LABOR WHICH IS NEITHER DRAWN NOR SPECIFIED, BUT WHICH IS OBVIOUSLY A COMPONENT PART OF, AND NECESSARY TO COMPLETE WORK AND WHICH IS CUSTOMARILY A PART OF WORK OF SIMILAR CHARACTER.
- C. EQUIPMENT AND MATERIALS FOR THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PROTECTED BY SAME UNTIL FORMALLY ACCEPTED BY THE OWNER.
- D. ALL MANUFACTURERS OF ELECTRICAL EQUIPMENT SHALL VERIFY TO THE SATISFACTION OF THE CONTRACTOR AND ENGINEER THAT THEIR EQUIPMENT WILL FUNCTION PROPERLY UNDER THE CONDITIONS OF USE, AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT WEIGHTS, OPERATING CHARACTERISTICS AND ALL OTHER RELATED APPURTENANCES SHALL BE VERIFIED BEFORE SUBMITTAL OF SHOP DRAWINGS.

1.10 MATERIAL SUBSTITUTION

- A. BID SHALL BE BASED UPON THE SPECIFIED PRODUCTS OR LISTED ALTERNATES. DRAWINGS AND SPECIFICATIONS ARE BASED ON THE PRODUCTS SPECIFIED BY TYPE, MODEL, AND SIZE AND THUS ESTABLISH MINIMUM QUALITIES, WHICH SUBSTITUTES MUST MEET TO QUALIFY FOR REVIEW.
- B. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE AND BE ACCOMPANIED WITH COMPLETE SPECIFICATIONS TO SHEET SUBMITTAL AS OUTLINED IN THIS SPECIFICATION SECTION. CONSTRUCTION SHALL BE ACCORDING TO THE SUBSTITUTION NUMBER, ETC., AND TECHNICAL DATA FOR ALL ITEMS. INCLUDE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.
- C. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. THE CONTRACTOR SHALL SUBMIT INSPECTION SAMPLES OF BOTH THE SPECIFIED AND THE PROPOSED SUBSTITUTIONS.
- D. IF ANY SUBSTITUTIONS ARE APPROVED, AN ADDENDUM LISTING THE APPROVED ITEM(S) WILL BE ISSUED TO ALL BIDDING CONTRACTORS PRIOR TO THE BID DATE.
- E. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR ANY EXTRA COST OF EVALUATING THE EQUALITY OF THE MATERIAL AND EQUIPMENT TO BE INSTALLED.
- F. WHERE ONLY ONE MAKE IS NAMED IN THE SPECIFICATIONS OR ON THE DRAWINGS, IT SHALL BE PROVIDED.

G. VERBAL REQUESTS OR APPROVALS SHALL NOT BE BINDING ON THE ENGINEER OR OWNER.

1.11 QUALITY ASSURANCE

- A. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: UNDERWRITER LABORATORIES, INC. (UL) LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

1.12 SUBMITTALS

- A. SHOP DRAWINGS AND PRODUCT DATA
 1. PREPARE SHOP DRAWINGS AND PRODUCT DATA FOR ELECTRICAL EQUIPMENT WITH ADEQUATE DETAILS AND SCALES AS NECESSARY TO CLEARLY SHOW CONSTRUCTION. INDICATE OPERATING CHARACTERISTICS FOR EACH EQUIPMENT ITEM AND DESIGN CONDITIONS FOR EACH EQUIPMENT ITEM. INDICATE THE MANUFACTURER'S DATA IN THE BINDER THAT DESCRIBES THE PROPER SERVICE.
 2. THIS CONTRACTOR SHALL REVIEW, STAMP WITH APPROVAL AND SUBMIT WITH REASONABLE PROMPTNESS AND IN ORDERLY SEQUENCE SO AS TO CAUSE NO DELAY IN WORK OR IN THE WORK OF ANY OTHER CONTRACTOR. ALL SHOP DRAWINGS AND SAMPLES REQUIRED BY THE CONTRACT DOCUMENTS, SHALL BE SUBMITTED AND STAMPED WITH CONTRACTOR APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DRAWINGS. THE CONTRACTOR SHALL BE RETURNED FOR REPROCESSING. THE SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE AND NOT FOR DIMENSIONS, QUANTITIES, ETC.
 3. IF THE SUBMITTAL SHOWS VARIATIONS FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS FOR ANY REASON, THE CONTRACTOR SHALL MAKE MENTION OF SUCH VARIATION IN A LETTER OF TRANSMITTAL. THE CONTRACTOR SHALL NOTE IN RED ON THE SUBMITTAL ANY CHANGE IN DESIGN OR DIMENSION ON THE ITEMS SUBMITTED INCLUDING CHANGES MADE BY THE MANUFACTURER WHICH MAY DIFFER FROM CATALOG INFORMATION.
 4. CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS IN THE FORM OF DESIGN DRAWING AND SPECIFICATIONS ARE DISCOVERED, EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE APPROVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING SUCH DEVIATIONS, DISCREPANCIES, OR CONFLICTS. THE CONTRACTOR SHALL CONTROL AND SHALL BE USED FOR PROCUREMENT, THE REQUIREMENTS AND EQUIPMENT INFORMATION WITH THE WORK OF OTHER TRADES AND THE EQUIPMENT SHALL BE DELIVERED AT SUCH STAGES OF THE WORK AS WILL EXPEDITE THE WORK AS A WHOLE AND SHALL BE MARKED AND STORED IN SUCH A WAY AS TO BE EASILY CHECKED AND INSPECTED. THE ARRIVAL AND PLACEMENT OF LARGE EQUIPMENT ITEMS SHALL BE SCHEDULED EARLY ENOUGH TO PERMIT ENTRY AND SETTING WHEN THERE IS NO RESTRICTION OR PROBLEM DUE TO SIZE AND WEIGHT.
 5. MATERIALS SHALL BE STORED TO PROTECT THEM FROM INJURY PRIOR TO INSTALLATION. MATERIAL SHOULD NOT BE STORED DIRECTLY ON THE GROUND OR FLOOR AND SHALL BE KEPT AS CLEAN AND DRY AS POSSIBLE AND FREE FROM DAMAGE OR DETERIORATING ELEMENTS.
 6. IN GENERAL, DO NOT DELIVER ITEMS OF ELECTRICAL EQUIPMENT TO THE PROJECT SUBSTANTIALLY BEFORE THE TIME WHEN THE WORK SHALL BE IN A CLEAN, UNLABELED CONDITION. FURNISH INFORMATION TO GENERAL CONTRACTOR AS TO SIZE AND LOCATION OF ALL BUILT-IN OPENINGS REQUIRED. DO NOT CUT, REMOVE OR Pierce GENERAL OR MECHANICAL INSULATION, FIRE RATED WALLS OR CEILING; OR STEEL WORK; WITHOUT PRIOR PERMISSION AND INSTRUCTION.

1.14 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. DELIVER PRODUCTS TO THE PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, COMPLIANCE LABELS AND SIMILAR INFORMATION NEEDED FOR IDENTIFICATION. MATERIALS SHALL BE ADEQUATELY PACKAGED OR PROTECTED TO PREVENT DETERIORATION DURING SHIPMENT, STORAGE AND HANDLING.

- B. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE DELIVERY AND SAFE STORAGE OF THEIR MATERIALS AND EQUIPMENT INFORMATION WITH THE WORK OF OTHER TRADES AND THE EQUIPMENT SHALL BE DELIVERED AT SUCH STAGES OF THE WORK AS WILL EXPEDITE THE WORK AS A WHOLE AND SHALL BE MARKED AND STORED IN SUCH A WAY AS TO BE EASILY CHECKED AND INSPECTED. THE ARRIVAL AND PLACEMENT OF LARGE EQUIPMENT ITEMS SHALL BE SCHEDULED EARLY ENOUGH TO PERMIT ENTRY AND SETTING WHEN THERE IS NO RESTRICTION OR PROBLEM DUE TO SIZE AND WEIGHT.
- C. MATERIALS SHALL BE STORED TO PROTECT THEM FROM INJURY PRIOR TO INSTALLATION. MATERIAL SHOULD NOT BE STORED DIRECTLY ON THE GROUND OR FLOOR AND SHALL BE KEPT AS CLEAN AND DRY AS POSSIBLE AND FREE FROM DAMAGE OR DETERIORATING ELEMENTS.
- D. IN GENERAL, DO NOT DELIVER ITEMS OF ELECTRICAL EQUIPMENT TO THE PROJECT SUBSTANTIALLY BEFORE THE TIME WHEN THE WORK SHALL BE IN A CLEAN, UNLABELED CONDITION. FURNISH INFORMATION TO GENERAL CONTRACTOR AS TO SIZE AND LOCATION OF ALL BUILT-IN OPENINGS REQUIRED. DO NOT CUT, REMOVE OR Pierce GENERAL OR MECHANICAL INSULATION, FIRE RATED WALLS OR CEILING; OR STEEL WORK; WITHOUT PRIOR PERMISSION AND INSTRUCTION.

1.15 PROTECTION OF WORK AND PROPERTY

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFEGUARDING WORK, PROPERTY, AND FACILITIES AGAINST DAMAGE, BOTH THEIR OWN AS WELL AS OTHERS, WITH WHICH THEY MAY COME INTO CONTACT IN THE PERFORMANCE OF THEIR WORK.
- B. STORED MATERIALS SHALL BE PROTECTED AGAINST DAMAGE FROM WEATHER, PIPE AND DUCT OPENINGS SHALL BE CLOSED WITH CAPS OR PLUGS DURING INSTALLATION. ALL ELECTRICAL EQUIPMENT SHALL BE COVERED AND PROTECTED AGAINST DAMAGE. ANY MATERIALS OR EQUIPMENT DAMAGED AT ANY STAGE IN THE CONSTRUCTION SHALL BE REPLACED OR REPAIRED AND AT THE FINAL COMPLETION, ALL WORK SHALL BE IN A CLEAN, UNLABELED CONDITION.
- C. FURNISH INFORMATION TO GENERAL CONTRACTOR AS TO SIZE AND LOCATION OF ALL BUILT-IN OPENINGS REQUIRED. DO NOT CUT, REMOVE OR Pierce GENERAL OR MECHANICAL INSULATION, FIRE RATED WALLS OR CEILING; OR STEEL WORK; WITHOUT PRIOR PERMISSION AND INSTRUCTION.

1.16 CUTTING AND PATCHING

- A. GENERAL: ALL CUTTING AND PATCHING FOR THE INSTALLATION OF THIS BRANCH OF THE WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- B. PERFORM CUTTING AND PATCHING IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN DIVISION 1. PERFORM CUTTING, FITTING AND PATCHING OF MECHANICAL EQUIPMENT AND MATERIALS REQUIRED TO:
 1. INSTALL NEW WORK.
 2. UNCOVER WORK TO PROVIDE FOR INSTALLATION OF ILL-TIMED WORK.
 3. REMOVE AND REPLACE DEFECTIVE WORK.
 4. REMOVE AND REPLACE WORK NOT CONFORMING TO REQUIREMENTS OF THE CONTRACT DOCUMENTS.
 5. INSTALL EQUIPMENT AND MATERIALS IN EXISTING STRUCTURE.
 6. UPON WRITING INSTRUCTIONS FROM THE ENGINEER, UNCOVER AND RESTORE WORK TO PROVIDE FOR ENGINEER OBSERVATION OF CONCEALED WORK.
 7. CUT, REMOVE AND LEGALLY DISPOSE OF SELECTED ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS AS INDICATED, INCLUDING BUT NOT LIMITED TO REMOVAL OF CONDUITS AND CONDUCTORS, JUNCTION BOXES, LUMINAIRES AND TRIM, AND OTHER ELECTRICAL ITEMS.
 8. MAKE OBSOLETE BY THE NEW WORK.
 9. PROTECTION OF INSTALLED WORK: DURING CUTTING AND PATCHING OPERATIONS, PROTECT ADJACENT INSTALLATIONS.
 10. PROVIDE AND MAINTAIN TEMPORARY PARTITIONS OR DUST BARRIERS ADEQUATE TO PREVENT THE DISCOVERY OF DEFECTS IN THE COURSE OF THE COMPLETE WORK.
 11. WHEN TWO OR MORE ITEMS OF THE SAME EQUIPMENT ARE REQUIRED (I.E., LUMINAIRES, WIRING DEVICES, ETC.), EQUIPMENT ITEMS SHALL BE OF THE SAME MANUFACTURER.
 12. SUBMIT A MINIMUM OF SIX (6) COPIES OF SHOP DRAWINGS TO THE ARCHITECT, THE ARCHITECT AND ENGINEER SHALL EACH RETAIN ONE (1) COPY AND RETURN THE REMAINDER TO THE CONTRACTOR FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL PROPERLY CONDUCT THE WORK, INCLUDING RECORDINGS OF THE OPERATING MANUAL.
 13. SHOP DRAWINGS AND PRODUCT DATA INCLUDES:
 - a. POWER DISTRIBUTION EQUIPMENT
 - b. WIRING DEVICES
 - c. LIGHTING CONTROL DEVICES
 - d. LUMINAIRES, LAMPS, DRIVERS, AND BALLASTS
 14. APPROVAL OF SUBMITTAL ITEMS SHALL NOT PRECLUDE REJECTION OF THOSE ITEMS UPON DISCOVERY OF DEFECTS IN THEIR PERFORMANCE OR IN THE COURSE OF THE COMPLETE WORK.
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 116. APPROVAL OF SUBMITTAL ITEMS SHALL NOT PRECLUDE REJECTION OF THOSE ITEMS UPON DISCOVERY OF DEFECTS IN THEIR PERFORMANCE OR IN THE COURSE OF THE COMPLETE WORK.
 117. WHEN TWO OR MORE ITEMS OF THE SAME EQUIPMENT ARE REQUIRED (I

- 4. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING RATING OF 10,000 AMPERES SYMMETRICAL AT 240 VOLTS AND 14,000 AMPERES SYMMETRICAL AT 480 VOLTS.

- 15. ALL SIGNAL BOOSTER COMPONENTS SHALL BE CONTAINED IN A NEMA-4 TYPE APPROVED WATERPROOF ENCLOSURE. ALL ENCLOSURES SHALL BE PAINTED RED WITH EXTERNAL LABELING IN BRIGHT YELLOW OR AS REQUIRED BY THE AHJ.

- J. SUPPORT SURFACE-MOUNTED LUMINAIRES AT LEAST TWO CONCEALED POINTS TO PREVENT ROTATION.

H. ENCLOSURE

- 1. ENCLOSURES SHALL BE AT LEAST 24 INCHES WIDE X 10 INCHES DEEP (EXCEPT FOR DWELLING UNIT LOAD CENTERS), MADE FROM GALVANIZED STEEL, PROVIDE MINIMUM GUTTER SPACE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, WHERE FEEDER CABLES SUPPLYING THE MAINS OF A PANEL ARE CARRIED THROUGH ITS BOX TO SUPPLY OTHER ELECTRICAL EQUIPMENT, THE BOX SHALL BE SIZED TO INCLUDE THE ADDITIONAL REQUIRED WORK SPACE. AT LEAST FOUR INTERIOR MOUNTING STUDS WITH ADJUSTABLE NUTS SHALL BE PROVIDED.
- 2. ENCLOSURES SHALL BE PROVIDED WITH BLANK ENDS.
- 3. EXTERIOR MOUNTED PANELBOARDS SHALL BE NEMA 3R AND RATED FOR EXTERIOR APPLICATIONS.

I. SERVICE ENTRANCE LABEL

- 1. EQUIPMENT WITH MAIN SERVICE DISCONNECT SWITCH(ES) SHALL BE UL LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT.

J. FUTURE DEVICES

- 1. PANELBOARDS SHALL BE FULLY PROVIDED WITH ALL NECESSARY MOUNTING BRACKETS, BUS CONNECTIONS AND APPURTENANCES REQUIRED FOR INSTALLATION OF FUTURE DEVICES.

K. ACCESSORY COMPONENTS AND FEATURES

- 1. PROVIDE ACCESSORY SET INCLUDING TOOLS AND MISCELLANEOUS ITEMS REQUIRED FOR OVERCURRENT PROTECTIVE DEVICE TEST, INSPECTION, MAINTENANCE AND OPERATION.

L. NAMEPLATES

- 1. PROVIDE AN ENGRAVED NAMEPLATE FOR EACH PANEL SECTION.

M. WARNING LABEL

- 1. PROVIDE ARC-FLASH HAZARD WARNING LABEL FOR EACH PANEL SECTION PER NATIONAL ELECTRIC CODE (N.E.C.) ARTICLE 110.16.

N. FINISH

- 1. SURFACES OF THE TRIM ASSEMBLY SHALL BE PROPERLY CLEANED, PRIMED, AND A FINISH COAT OF GRAY ANS I 61 PAINT APPLIED.

2.14 EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM

A. GENERAL

- 1. PROVIDE AN IN-BUILDING RADIO SIGNAL AMPLIFICATION SYSTEM TO PROVIDE COMPLETE COVERAGE IN THE BUILDING FOR THE PUBLIC SAFETY AGENCIES AS REQUIRED BY THE LOCAL FIRE DEPARTMENT AND OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION. SYSTEM USERS SHALL RECEIVE AND TRANSMIT RADIO BROADCASTS FROM THEIR PORTABLE RADIO UNITS WITHIN THE BUILDING. THIS SHALL BE ACCOMPLISHED UTILIZING THE FOLLOWING COMPONENTS:
 - a. BI DIRECTIONAL AMPLIFIERS (SIGNAL BOOSTERS)
 - b. PLENUM RATED COAXIAL CABLE
 - c. ANTENNAS
 - d. CABLE TAPS
 - e. CONNECTORS
 - f. POWER DIVIDERS
 - g. OTHER COMPONENTS AND INTERCONNECTING CIRCUITRY AS REQUIRED
- 2. THE SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF UL2524 1ST EDITION IN-BUILDING 2-WAY EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS, SYSTEMS NOT BEARING THE UL2524 LISTING ARE NOT ACCEPTABLE. SYSTEMS SHALL BE COMPLIANT WITH THE CURRENT ENFORCED EDITIONS OF NFPA 72, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE.
- 3. THE ENTIRE SYSTEM SHALL MEET THE REQUIREMENTS OF THE FIRE DEPARTMENT, THE BUILDING DEPARTMENT AND ALL OTHER AGENCIES AND AUTHORITIES HAVING JURISDICTION (AHJ).
- 4. THE WORK IN THIS SECTION SHALL INCLUDE THE RESPONSIBILITY FOR ALL PERMIT REQUIREMENTS WITH THE AHJ, WHERE FILINGS REQUIRE ENGINEER'S SIGNATURE, DOCUMENTS SHALL BE SUBMITTED FOR THEIR REVIEW AND SIGNATURE. THIS RESPONSIBILITY SHALL INCLUDE FURNISHING OF REQUIRED QUANTITIES OF FLOOR PLANS, DESCRIPTIVE NOTES, AND/OR SPECIFICATIONS, WIRING DIAGRAMS, SHOP DRAWINGS AND AMENDMENT FORMS.
- 5. EARLY COMPLETION OF THE IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM WILL BE REQUIRED AS TO PERMIT A CERTIFICATE OF OCCUPANCY TO BE OBTAINED IN A TIMELY MANNER.
- 6. ANY PERMITS NECESSARY FOR THE INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
- 7. THE IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM SHALL USE A UL2524, NFPA 72, NFPA 1221 AND APPLICABLE STATE/LOCAL FIRE CODE COMPLIANT FARENHYTE SIGNAL BOOSTER OR APPROVED EQUAL.
- 8. THE HONEYWELL RSI SYSTEM SHALL BE FURNISHED BY LIFE SAFETY SYSTEMS LLC. CONTACT DAN KLUG (216) 347-0950 OR (440) 888-7960.

B. DESIGN REQUIREMENTS

- 1. IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS FOR EMERGENCY RESPONDERS ARE AN INTEGRAL COMPONENT OF THE LIFE SAFETY EQUIPMENT OF A BUILDING OR STRUCTURE. THE PRIMARY PURPOSE IS TO PROVIDE RELIABLE EMERGENCY RESPONDER COMMUNICATIONS AT THE REQUIRED SIGNAL STRENGTH WITHIN THE SPECIFIED AREAS.
- 2. CRITICAL AREAS SUCH AS EMERGENCY COMMAND CENTER, FIRE PUMP ROOM, EXIT STAIRS, EXIT PASSAGeways, STAIRWELL LOBBIES, SPRINKLER SECTION VALVE LOCATIONS AND SIMILAR CRITICAL AREAS SHALL BE PROVIDED WITH 100% FLOOR AREA RADIO COVERAGE.
- 3. GENERAL BUILDING AREAS SHALL BE PROVIDED WITH 95% RADIO COVERAGE, OR AS SPECIFIED BY AHJ
- 4. THE IN-BUILDING EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEMS MUST PROVIDE THE FOLLOWING SIGNAL STRENGTHS:
 - a. DOWNLINK - MINIMUM SIGNAL STRENGTH OF -95 dBm THROUGHOUT THE COVERAGE AREA
 - b. UPLINK - MINIMUM SIGNAL STRENGTH OF -95 dBm RECEIVED AT THE AHJ RADIO SYSTEM
 - c. OTHERWISE REQUIRED BY THE AHJ
- 5. THE SYSTEM SHALL BE COMPLETE WITH ALL COMPONENTS AND WIRING REQUIRED FOR COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS, AND FOR ITS OPERATIONS DESCRIBED HEREINAFTER.
- 6. E.C. SHALL SUB-CONTRACT AN APPROVED MANUFACTURER OR A QUALIFIED AND APPROVED VENDOR TO SUPPLY, TEST AND DETECT AND LOCATIONS OF COMPONENTS WHICH ARE REQUIRED FOR PROPER OPERATION AS WELL AS TO SUPPLY, DEPLOY, TEST AND CERTIFY THE PERFORMANCE OF THE COMPLETE SYSTEM. VENDOR QUALIFICATIONS MUST BE ACCEPTABLE TO THE AHJ.
- 7. ALL TESTS SHALL BE CONDUCTED, DOCUMENTED, AND SIGNED BY A PERSON IN POSSESSION OF AN FCC GENERAL RADIO TELEPHONE OPERATORS LICENSE. ALL TESTING PERSONNEL SHALL BE CERTIFIED AND AUTHORIZED BY THE SIGNAL BOOSTER MANUFACTURER IN THE INSTALLATION AND OPERATION OF THEIR EQUIPMENT. PERSONNEL QUALIFICATIONS MUST BE ACCEPTABLE TO THE AHJ.
- 8. THE SYSTEM DESIGN SHALL BE BASED ON THE FARENHYTE LINE OF PUBLIC SAFETY SIGNAL BOOSTERS UL2524, NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE AND FCC COMPLIANT TO ESTABLISH STANDARDS OF QUALITY MATERIALS AND PERFORMANCE. THE NAMING OF A SPECIFIC MANUFACTURER OR A CATALOG NUMBER DOES NOT WAIVER ANY REQUIREMENT OR PERFORMANCE OF INDIVIDUAL COMPONENTS DESCRIBED IN THE SPECIFICATIONS.
- 9. ASSEMBLY AND INSTALLATION OF ALL COMPONENTS OF THE EMERGENCY RESPONDER RADIO COMMUNICATION ENHANCEMENT SYSTEM SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE.
- 10. SURVIVABILITY FROM ATTACK BY FIRE SHALL MEET REQUIREMENTS OF NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE OR AS REQUIRED BY AHJ
- 11. THE SYSTEM MUST COMPLY WITH ALL APPLICABLE SECTIONS OF THE FCC RULES. SIGNAL BOOSTER SHALL HAVE FCC CERTIFICATION PRIOR TO INSTALLATION.
- 12. ANTENNA ISOLATION SHALL BE MAINTAINED BETWEEN THE DONOR ANTENNA AND ALL INSIDE ANTENNAS (D.A.S.) TO A MINIMUM OF 20dB UNDER ALL OPERATING CONDITIONS.

C. TECHNICAL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS

- 1. THE SYSTEM SPECIFIED SHALL BE BASED UPON FARENHYTE LINE OF PUBLIC SAFETY UL2524, NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE COMPLIANT SIGNAL BOOSTERS.
- 2. THE SIGNAL BOOSTER SHALL BE A CLASS B PUBLIC SAFETY TYPE AS DESIGNATED BY THE FCC OR AS REQUIRED BY THE AHJ.
- 3. THE SECONDARY POWER SUPPLIES, BATTERY CHARGERS AND SYSTEM MONITORING SHALL BE FULLY COMPLIANT WITH NFPA 72, NFPA 1221 AND APPLICABLE STATE/LOCAL FIRE CODE. THE SIGNAL BOOSTER SHALL HAVE BOTH THE PRIMARY AND THE SECONDARY POWER SUPPLIES BUILT IN A FULLY SEALED NEMA-4 TYPE APPROVED ENCLOSURE.
- 4. ALL SIGNAL BOOSTERS AND OTHER ACTIVE SYSTEM COMPONENTS MUST HAVE FCC CERTIFICATION PRIOR TO INSTALLATION. THE EQUIPMENT FCC ID MUST BE SHOWN ON THE PRODUCT DATASHEETS AND TECHNICAL SUBMITTALS. THE ID MUST ALSO BE DISPLAYED ON THE PRODUCT AS REQUIRED BY THE FCC.
- 5. THE SIGNAL BOOSTER SHALL BE SET AND TUNED BY THE EQUIPMENT MANUFACTURER TO PASS FREQUENCIES AS SPECIFIED BY THE LOCAL FIRE DEPARTMENT.
- 6. TO REDUCE THE POSSIBILITY OF UNWANTED INTERFERENCE AFFECTING THE OPERATION OF THE SYSTEM, SIGNAL BOOSTERS SHALL BE BAND OR CHANNEL SELECTIVE TYPE WITH A MAXIMUM 3dB CHANNEL BANDWIDTH OF 200kHz (Fc +/- 100kHz). WIDE-BAND SIGNAL BOOSTERS SHALL NOT BE ACCEPTED, UNLESS REQUIRED TO COVER MULTIPLE CHANNELS WITHIN THE SAME BAND.
- 7. SIGNAL BOOSTERS SHALL HAVE OSCILLATION PREVENTION CIRCUITRY TO PROTECT THE PUBLIC SAFETY RADIO SYSTEM IN CASE OF SIGNAL BOOSTER MALFUNCTION.
- 8. SIGNAL BOOSTER GAIN SHALL BE RATED AT MINIMUM OF 80dB AND THE GAIN SHALL BE ADJUSTABLE IN A MINIMUM OF 2dB RANGE. SYSTEM GAIN SHALL BE SET AND DOCUMENTED AT THE TIME OF THE FINAL SYSTEM TEST.
- 9. MAXIMUM PROPAGATION DELAY OF THE SIGNAL BOOSTER SYSTEM SHALL BE 14µs (MICROSECONDS) OR AS SPECIFIED BY AHJ.
- 10. THE SIGNAL BOOSTER SYSTEM SHALL INCLUDE BUILT-IN AUTOMATIC ALARMING OF MALFUNCTIONS OF THE SIGNAL BOOSTER AND BATTERY SYSTEM AS PER NFPA 72, SECTIONS 24.5.2.6.1 AND 24.5.2.6.2, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE. AFTERMARKET EQUIPMENT ADD-ONS AND MODIFICATIONS TO COMPLY WITH THIS SPECIFICATION SHALL NOT BE ACCEPTED.
- 11. A DESIGNATED SUPERVISED MONITORING PANEL SHALL BE PROVIDED WITH THE EMERGENCY COMMAND CENTER OR OTHER LOCATION AS DESIGNATED BY AHJ TO ANNUNCIATE THE STATUS OF ALL SIGNAL BOOSTER LOCATIONS. THE MONITORING PANEL SHALL PROVIDE VISUAL AND LABELED INDICATION OF THE FOLLOWING FOR EACH SIGNAL BOOSTER:
 - a. NORMAL AC POWER
 - b. SIGNAL BOOSTER TROUBLE
 - c. ANTENNA FAILURE
 - d. LOSS OF NORMAL AC POWER
 - e. FAILURE OF BATTERY CHARGER
 - f. LOW BATTERY CAPACITY
- 12. THE SIGNAL BOOSTER SYSTEM SHALL INCLUDE A BUILT-IN RELAYS FOR ADDRESSABLE FIRE ALARM MONITOR MODULE CONNECTION FOR MONITORING THE SIGNAL BOOSTER AS REQUIRED BY CODE.
- 13. THE VENDOR SHALL VERIFY THE SYSTEM MONITORING REQUIREMENTS WITH THE AHJ PRIOR TO SYSTEM INSTALLATION. SYSTEM MONITORING SHALL BE FULLY COMPLIANT WITH THE AHJ REQUIREMENTS.
- 14. EXTERNAL FILTERS, ATTACHMENTS, OR OTHER AFTERMARKET MODIFICATIONS OF THE ORIGINAL EQUIPMENT SHALL NOT BE ACCEPTED.

D. INSTALLATION REQUIREMENTS

- 1. ASSEMBLY AND INSTALLATION OF ALL COMPONENTS OF THE EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE, NFPA 70, NFPA 72, NFPA 1221, AND APPLICABLE STATE/LOCAL FIRE CODE OR AS REQUIRED BY THE LOCAL AHJ.
- 2. THE PRIMARY POWER SOURCE SHALL BE SUPPLIED FROM A DEDICATED TWENTY (20) AMPERE BRANCH CIRCUIT AND COMPLY WITH NFPA 70 NATIONAL ELECTRICAL CODE, NFPA 72 AND NFPA 1221.
- 3. THE EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM SHALL BE EQUIPPED WITH A SECONDARY SOURCE OF POWER. THE SECONDARY POWER SUPPLY SHALL BE A BATTERY SYSTEM WITH A DEDICATED BATTERY CHARGER POWERED BY A DEDICATED TWENTY (20) AMPERE BRANCH CIRCUIT, ISOLATED FROM THE BRANCH CIRCUIT SERVING AS THE "PRIMARY POWER SOURCE". THE SECONDARY POWER SUPPLY SHALL SUPPLY POWER AUTOMATICALLY WHEN THE PRIMARY POWER SOURCE IS LOST. THE SECONDARY SOURCE OF POWER SHALL BE CAPABLE OF OPERATING THE EMERGENCY RESPONDER RADIO COVERAGE ENHANCEMENT SYSTEM FOR A PERIOD OF AT LEAST 24 HOURS. THE BATTERY SYSTEM SHALL AUTOMATICALLY CHARGE IN THE PRESENCE OF EXTERNAL POWER INPUT. BATTERY CHARGER AND ALL OTHER ELECTRONIC COMPONENTS MUST BE FULLY ENCLOSED IN A NON-VENTED NEMA-4 TYPE APPROVED ENCLOSURE. BATTERIES SHALL BE ENCLOSED IN A VENTED NEMA 3R TYPE APPROVED ENCLOSURE NOT CONTAINING ANY OTHER EQUIPMENT.
- 4. THE SIGNAL BOOSTER SHALL BE DESIGNATED TO ALLOW DEGRADED PERFORMANCE IN ADVERSE CONDITIONS, SUCH AS HIGH TEMPERATURES IN THE EVENT OF HEAT FROM A NEARBY FIRE, VOLTAGE FLUCTUATIONS OR OTHER ABNORMAL CONDITIONS THAT MAY OCCUR DURING AN EMERGENCY. CIRCUITS THAT INTENTIONALLY DEGRADE THE SIGNAL BOOSTER IN SUCH SITUATIONS (I.E. UNDER/OVER VOLTAGE, OVER/UNDER CURRENT, OVER/UNDER TEMPERATURE, ETC.) ARE NOT ACCEPTABLE. EXTERNAL UPS (UNINTERRUPTIBLE POWER SUPPLIES) ARE NOT ACCEPTABLE, IT IS THE PURPOSE OF THIS SPECIFICATION TO ASSURE THE MAXIMUM POSSIBLE LEVEL OF COMMUNICATIONS TO PUBLIC SAFETY PERSONNEL, DEPENDING UPON THE SIGNAL BOOSTER, EVEN TO THE EXTENT OF DAMAGING THE SIGNAL BOOSTER, AS LONG AS SOME COMMUNICATIONS BENEFIT CAN BE PROVIDED DURING AN EMERGENCY.
- 5. SYSTEM DESIGN SHALL BE SUCH THAT NEITHER THE FAILURE OF THE NORMAL POWER SOURCE, THE TRANSFER TO AN EMERGENCY SOURCE, NOT THE RE-TRANSFER TO THE NORMAL SOURCE SHALL CAUSE A CHANGE IN SYSTEM STATUS.
- 6. THE AMPLIFIER SHALL BE HOUSED IN A 2-HOUR FIRE RATED ROOM OR OTHER SUITABLE SPACE AS APPROVED BY THE ENGINEER, OR WHERE SPECIFICALLY SHOWN ON THE DRAWING.
- 7. RADIATING CABLE, IF USED, SHALL BE RUN WITHOUT CONDUIT. ALL OTHER CABLE CAN BE RUN IN CONDUIT IF REQUIRED FOR MECHANICAL PROTECTION OF THE CABLE, OR WHERE SPECIFIED BY THE ELECTRICAL ENGINEER.
- 8. RF COAXIAL CABLE SHALL BE A FIRE-RESISTANT, LOW-SMOKE TYPE UL CLASSIFIED AS PLENUM. THE CLASSIFICATION SHALL BE CLEARLY MARKED ON THE OUTER SURFACE OF THE CABLE REGULAR INTERVALS.
- 9. ACCEPTANCE AND TEST PROCEDURES
 - 1. ACCEPTANCE TESTING FOR AN IN-BUILDING RADIO SYSTEM IS REQUIRED UPON COMPLETION OF INSTALLATION.
 - 2. THE COVERAGE TESTING SHALL BE DONE IN ACCORDANCE WITH NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE, AND AS REQUIRED BY THE LOCAL AHJ
 - 3. ALL TESTS SHALL BE CONDUCTED, DOCUMENTED, AND SIGNED BY A PERSON IN POSSESSION OF A CURRENT FCC GENERAL RADIO OPERATORS LICENSE.
 - 4. ALL TEST RECORDS ALONG WITH SYSTEM DIAGRAMS, EQUIPMENT SPECIFICATIONS, USER MANUALS, RF LINK BUDGET CALCULATIONS, BATTERY BACKUP CALCULATION AND OTHER DESIGN DATA SHALL BE SUBMITTED UPON COMPLETION OF THE PROJECT, AND AS REQUIRED BY THE AHJ.

E. ACCEPTANCE AND TEST PROCEDURES

- 1. ACCEPTANCE TESTING FOR AN IN-BUILDING RADIO SYSTEM IS REQUIRED UPON COMPLETION OF INSTALLATION.
- 2. THE COVERAGE TESTING SHALL BE DONE IN ACCORDANCE WITH NFPA 72, NFPA 1221, APPLICABLE STATE/LOCAL FIRE CODE, AND AS REQUIRED BY THE LOCAL AHJ
- 3. ALL TESTS SHALL BE CONDUCTED, DOCUMENTED, AND SIGNED BY A PERSON IN POSSESSION OF A CURRENT FCC GENERAL RADIO OPERATORS LICENSE.
- 4. ALL TEST RECORDS ALONG WITH SYSTEM DIAGRAMS, EQUIPMENT SPECIFICATIONS, USER MANUALS, RF LINK BUDGET CALCULATIONS, BATTERY BACKUP CALCULATION AND OTHER DESIGN DATA SHALL BE SUBMITTED UPON COMPLETION OF THE PROJECT, AND AS REQUIRED BY THE AHJ.

3.1 TESTING, INSPECTION, AND CLEANING

- A. TEST WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE EQUIPMENT IS CONNECTED; DEMONSTRATE INSULATION RESISTANCE BY MEGGER TEST AS REQUIRED; INSULATION RESISTANCE BETWEEN MAINLINE CIRCUITS AND GROUNDS FOR SECONDARY DISTRIBUTIONS SYSTEMS SHALL MEET NEC REQUIREMENTS.
- B. VERIFY AND CORRECT AS NECESSARY; VOLTAGES, TAP SETTINGS, TRIP SETTINGS AND PHASING ON EQUIPMENT ON EACH FLOOR AND DISTRIBUTION SYSTEM TO POSITIVE AND TEST SECONDARY VOLTAGES AT BUS IN MAIN SWITCHBOARD, AT PANELBOARDS, AND AT OTHER LOCATIONS ON DISTRIBUTION SYSTEMS AS NECESSARY. TEST SECONDARY VOLTAGES UNDER NO-LOAD AND FULL-LOAD CONDITIONS.
- C. TEST LUMINAIRES WITH SPECIFIED LAMPS IN PLACE FOR 10 HOURS. DO NOT OPERATE LAMPS OTHER THAN FOR TESTING BEFORE FINAL INSPECTION BY ARCHITECT. REPLACE LAMPS THAT FAIL WITHIN 90 DAYS AFTER ACCEPTANCE BY ARCHITECT.
- D. PROVIDE NECESSARY TESTING EQUIPMENT AND TESTING.
- E. FAILURE OR DEFECTS IN WORKMANSHIP OR MATERIALS REVEALED BY TESTS OR INSPECTION SHALL BE CORRECTED PROMPTLY AND RETESTED. REPLACE DEFECTIVE MATERIAL.
- F. CLEAN PANELS AND OTHER EQUIPMENT. PANELBOARD INTERIORS SHALL BE CLEANED AND VACUUMED. EQUIPMENT WITH DAMAGE TO PAINTED FINISH SHALL BE REPAIRED TO ARCHITECT'S SATISFACTION.

3.2 NAMEPLATES

- A. PROVIDE NAMEPLATES ON SWITCHBOARDS, PANELBOARDS, JUNCTION BOXES AND CABINETS, AND FOR SPECIAL PURPOSE SWITCHES, MOTOR DISCONNECT SWITCHES, REMOTE CONTROL STATIONS, STARTERS OR OTHER CONTROL DEVICES AS REQUIRED BY THIS SECTION. NAMEPLATES SHALL DESIGNATE EQUIPMENT CONTROLLED AND FUNCTION.

3.3 ACCESS AND ACCESS PANELS

- A. PROVIDE PROPER ACCESS TO MATERIAL OR EQUIPMENT THAT REQUIRE INSPECTION, REPLACEMENT, REPAIR OR SERVICE AND COORDINATE WITH THE INSTALLING TRADE, IF PROPER ACCESS CANNOT BE PROVIDED, CONFER WITH ARCHITECT AS TO BEST METHOD OF APPROACH TO MINIMIZE EFFECTS OF REDUCED ACCESS.
- B. ACCESS PANELS SHALL HAVE SAME FIRE RATING CLASSIFICATION AS SURFACE PENETRATED.
- C. PANELS SHALL BE AT LEAST 12" X 12"; ACCESS PANELS AT EQUIPMENT SHALL BE 18" X 18".

3.4 WIRING METHODS

- A. ALL RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, FITTINGS, ETC. SHALL BE SECURED AND SUPPORTED IN ALL ASSEMBLIES AS REQUIRED PER N.E.C. ARTICLE 300.11.
- B. INSTALL WIRE AND CABLE AS SPECIFIED AND AS APPROVED BY AUTHORITIES HAVING JURISDICTION. ALL CONDUITS OR RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE, EXCEPT FOR UNFINISHED AREAS, SUCH AS EQUIPMENT ROOMS. PROVIDE STAND-OFF CLIPS WHERE CONDUITS ARE INSTALLED ON MASONRY WALLS.
- C. RUN CONCEALED CONDUIT IN AS DIRECT LINES AS POSSIBLE WITH MINIMUM NUMBER OF BENDS OF LONGEST POSSIBLE RADIUS; RUN CONDUIT PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES TIGHT TO BUILDING STRUCTURE.
- D. CONDUIT RUNS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS FROM SERVICE ENTRANCE TO OUTLETS; CONDUIT SHALL ENTER AND BE SECURED TO CABINET, JUNCTION BOX, PULL BOX OR OUTLET BOX WITH LOCKWIT OUTSIDE AND BUSHING INSIDE.
- E. IN ALL CASES WHERE SUBSTITUTIONS ARE PERMITTED, THE CONTRACTOR SHALL BEAR AN EXTRA COST OF EVALUATING THE EQUALITY OF THE MATERIAL AND EQUIPMENT TO BE INSTALLED.
- F. INSTALL CONDUIT SYSTEMS COMPLETE BEFORE DRAWING IN CONDUCTORS. BLOW THROUGH AND SWAB AFTER PLASTER IS FINISHED AND DRY, AND BEFORE CONDUCTORS ARE INSTALLED.
- G. WIRE FROM POINT OF SERVICE CONNECTION TO RECEPTABLES, LUMINAIRES, DEVICES, EQUIPMENT, AND OTHER ELECTRICAL APPARATUS AS SHOWN ON DRAWINGS. PROVIDE SLACK WIRE FOR CONNECTIONS.
- H. CONDUCTORS 10-AWG AND SMALLER IN BRANCH CIRCUIT PANELBOARDS, SIGNAL CABINETS, SIGNAL CONTROL BOARDS, SWITCHBOARDS AND MOTOR CONTROL CENTERS SHALL BE BUNDLED. CONDUCTORS LARGER THAN 10-AWG IN SWITCHBOARDS, MOTOR CONTROL CENTERS, AND PULL BOXES SHALL BE CABLED IN INDIVIDUAL CIRCUITS.
- I. FOLLOW HOMERUN CIRCUIT NUMBERS SHOWN ON DRAWINGS TO CONNECT CIRCUITS TO PANELBOARDS. CONNECT EACH BRANCH CIRCUIT HOMERUN WITH TWO OR MORE CIRCUITS AND COMMON NEUTRAL TO CIRCUIT THROUGHOUT. IN THE TWO- OR FOUR-WIRE BRANCH CIRCUIT PANELBOARD SO THAT NO TWO CIRCUITS ARE FED FROM SAME BUS, WHERE PANELBOARD CABINETS ARE RECESSED, PROVIDE CONDUITS WITH SUFFICIENT CAPACITY FOR FUTURE CONDUCTORS FOR SPARE BRANCH CIRCUIT PROTECTIVE DEVICES AND SPACES IN PANELBOARD; STUB UP CONCEALED TO JUNCTION BOX. PROVIDE EXTENSIONS ABOVE CEILING.
- J. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED FOR INTERIOR APPLICATIONS ABOVE GRADE, WHERE PERMITTED BY CODES, FOR LUMINAIRE AND RECEPTACLE CIRCUITS, TELEPHONE, INTER-COMMUNICATIONS, SIGNAL AND INSTRUMENTATION CIRCUITS, AND FOR CONTROL CIRCUITS. EMT MAY BE USED ABOVE HUNG CEILING, IN EQUIPMENT ROOMS, IN MECHANICAL AND ELECTRICAL CHASES AND CLOSETS, IN EXPOSED LOCATIONS ALONG CEILING OR WALLS ABOVE NORMAL TRAFFIC LEVEL, AND WHERE NOT SUBJECT TO ACCIDENTAL DAMAGE OR ABUSE.
- K. INSTALL CONNECTORS AND COUPLINGS AS RECOMMENDED BY MANUFACTURERS. COMPRESSION FITTINGS SHALL BE USED IN AREAS SUBJECT TO MOISTURE.
- L. METAL CLAD CABLE (MC) AS APPROVED BY LOCAL CODE FOR RECEPTACLE CIRCUITS IN SUSPENDED CEILING AND STUO-WALL PARTITIONS.
- M. FLEXIBLE METAL CONDUIT (FMC) SHALL BE USED FOR CONNECTIONS TO ELECTRICAL EQUIPMENT AND TO EQUIPMENT FURNISHED UNDER DIVISIONS 14 AND 15 THAT ARE SUBJECT TO MOVEMENT AND VIBRATION. FMC SHALL BE LIMITED TO LENGTHS OF 6 FEET AND SHALL CONTAIN GROUNDING CONDUCTOR.
- N. ALL LOW VOLTAGE CABLE NOT IN CONDUIT AND INSTALLED IN RETURN AIR PLENUM SHALL BE UL LISTED PLENUM TYPE CABLE.
- O. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILING SHALL BE PRESTRESSED USING UL-APPROVED METHODS PER MANUFACTURERS GUIDELINES (HITI FIRE STOP SYSTEMS OR 3M FIRE PROTECTION PRODUCTS) TO MAINTAIN THE FIRE RESISTANCE RATING OF STRUCTURE. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATINGS REQUIREMENTS TO BE MAINTAINED.

3.5 INSTALLATION OF LUMINAIRES

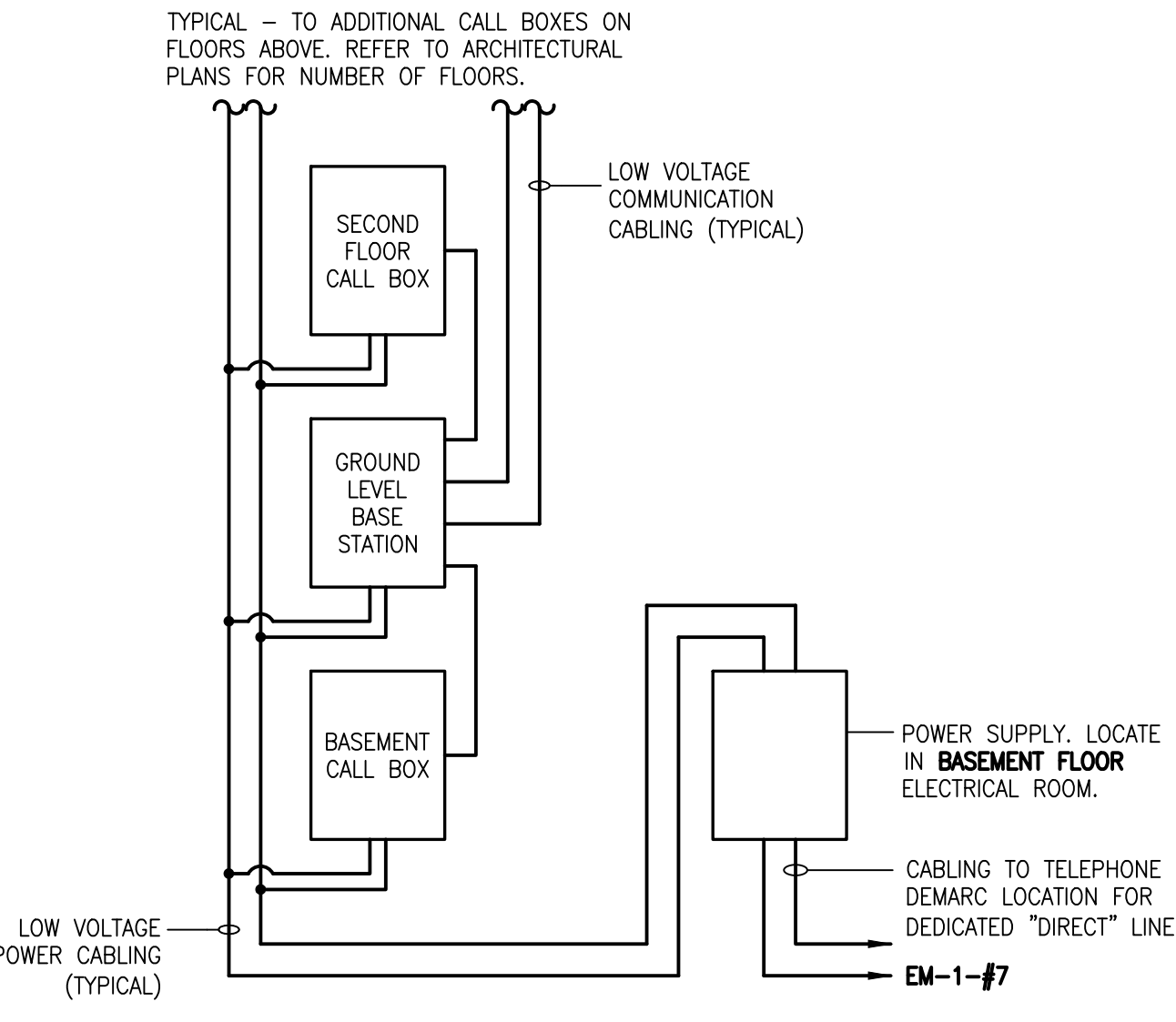
- A. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING CONSTRUCTION TYPES, HEIGHTS, CEILING SPACE CLEARANCES, ETC. WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS, ELEVATIONS, AND DETAILS. PROVIDE PROPER FRAMES, ROUGH-IN KITS, TRIM RINGS, MOUNTING HARDWARE, N.E.C. REQUIRED ACCESS, ANGLULAR ACCESSORIES, ETC. FOR A COMPLETE N.E.C. AND U.L. LISTED INSTALLATION PER ALL MANUFACTURER'S REQUIREMENTS.
- B. COORDINATE INSTALLATION OF ALL LUMINAIRES WITH ALL TRADES AND THE INSTALLATION OF CEILING MATERIALS AND SUSPENSION SYSTEMS PRIOR TO ANY ROUGH-INS.
- C. DO NOT INSTALL LUMINAIRES UNTIL WORK OF OTHER TRADES THAT MAY DAMAGE LUMINAIRES IS COMPLETED.
- D. INVESTIGATE LUMINAIRE LOCATIONS AND SUPPORTS TO ENSURE THAT NO INTERFERENCE EXISTS WITH HANGERS, DUCTS, SPRINKLERS, PIPES AND ALL OTHER EQUIPMENT.
- E. PROVIDE PROPER PLASTER FRAMES FOR LUMINAIRES RECESSED IN GYPSUM BOARD OR PLASTER CEILING.
- F. DO NOT SUSPEND OR SUPPORT LUMINAIRES OR SAFETY CHAINS FROM HUNG CEILING, CONDUIT OR DUCT. SUPPORT LUMINAIRES FROM STRUCTURAL BUILDING MEMBERS ONLY.
- G. FRAMING MEMBERS OF SUSPENDED CEILING SYSTEMS USED TO SUPPORT LUMINAIRES SHALL BE SECURELY FASTENED TO EACH OTHER AND SHALL BE SECURELY ATTACHED TO THE BUILDING STRUCTURE AT APPROPRIATE INTERVALS. LUMINAIRES SHALL BE SECURELY FASTENED TO THE CEILING FRAMING MEMBER BY MECHANICAL MEANS SUCH AS BOLTS, SCREWS, OR RIVETS. LISTED CLIPS IDENTIFIED FOR USE WITH THE TYPE OF CEILING FRAMING MEMBER(S) AND LUMINAIRE(S) SHALL ALSO BE PERMITTED PER N.E.C. ARTICLE 410.36(B).
- H. PROVIDE STRUT BELOW DUCTS WHERE LUMINAIRE LOCATIONS COINCIDE WITH DUCT RUNS. PROVIDE A COMPLETE THREADED ROD SYSTEM TO SUPPORT STRUT.
- I. PATCH ALL EXISTING SPRAY-ON FIREPROOFING DAMAGED DURING INSTALLATION.

3.6 GROUNDING

- A. PROVIDE EQUIPMENT GROUNDING SYSTEM AS SHOWN ON DRAWINGS. EQUIPMENT GROUNDING SYSTEM SHALL BE DESIGNED SO METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY WITH ELECTRICAL CIRCUITS OPERATE CONTINUOUSLY ON GROUND POTENTIAL AND PROVIDE LOW IMPEDANCE PATH FOR POSSIBLE GROUND FAULT CURRENTS.
- B. SYSTEM SHALL MEET NEC REQUIREMENTS, MODIFIED AS SHOWN ON DRAWINGS AND AS SPECIFIED.
- C. PROVIDE INDIVIDUAL GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH BRANCH CIRCUIT. INSTALL GROUNDING CONDUCTOR IN COMMON CONDUIT WITH RELATED PHASE OR NEUTRAL CONDUCTORS, OR BOTH PARALLEL FEEDERS INSTALLED IN MORE THAN ONE RACEWAY SHALL HAVE INDIVIDUAL FULL SIZE GREEN INSULATED EQUIPMENT GROUND CONDUCTORS.
- D. DETERMINE NUMBERS AND SIZES OF SCREW TERMINALS FOR EQUIPMENT GROUNDING BARS IN PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT. PROVIDE SCREW TERMINALS FOR ACTIVE CIRCUITS, SPARES AND SPACES.
- E. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN NONMETALLIC CONDUITS OR DUCTS UNLESS SPECIFIED OTHERWISE.

3.7 TELECOMMUNICATIONS CONDUIT SYSTEM

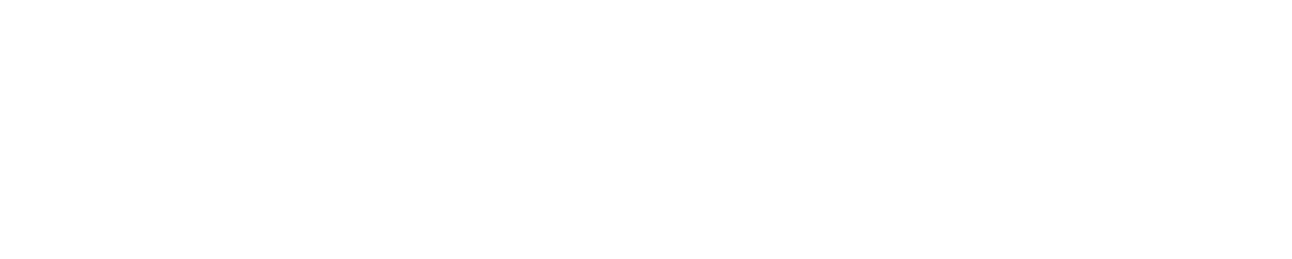
- A. PROVIDE SYSTEM OF EMPTY CONDUIT, OUTLETS AND MOUNTING BOARDS, AS SPECIFIED AND AS SHOWN ON DRAWINGS.
- B. NYLON PULL-IN WIRE SHALL BE INSTALLED IN TELECOMMUNICATIONS CONDUITS FOR USE BY OWNER.



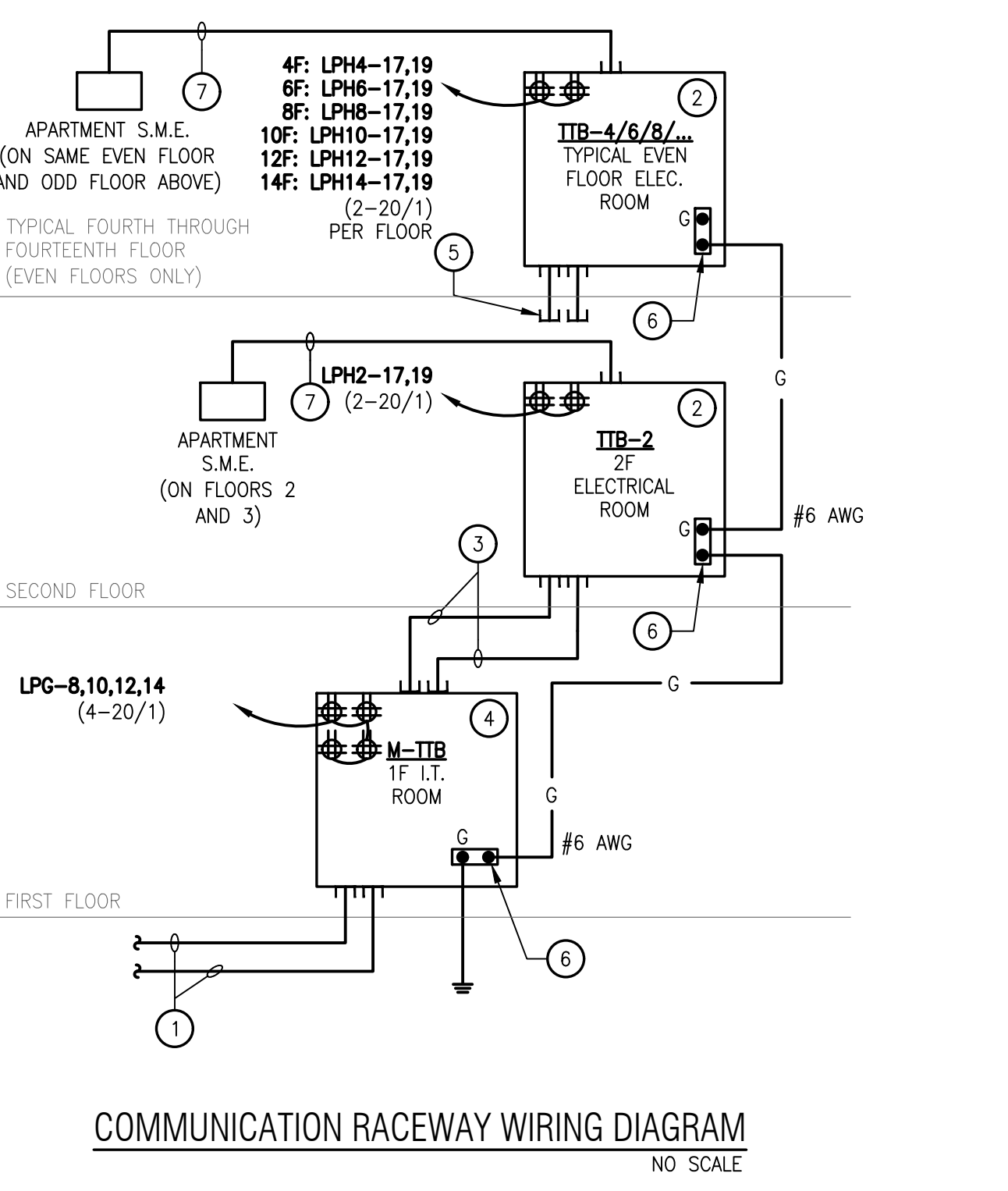
TWO-WAY COMMUNICATION SYSTEM WIRING DIAGRAM NO SCALE

TWO-WAY COMMUNICATION SYSTEM WIRING DIAGRAM GENERAL NOTES

- A. PROVIDE A COMPLETE, OPERATING TWO-WAY COMMUNICATION SYSTEM CONSISTING OF A FIRST FLOOR BASE STATION AND CALL BOX STATION ELEVATOR LANDING LOCATIONS ALL REMAINING FLOORS. SYSTEM SHALL COMPLY WITH ALL STATE CODES, LOCAL CODES AND ADA. MANUFACTURER SHALL BE RATH "AREA OF REFUGE" OR EQUAL BY CORNELL.
- B. INSTALL ALL CABLE PER MANUFACTURER'S INSTRUCTIONS. WIRING SHALL BE INSTALLED IN 3/4" CONDUIT (MINIMUM).
- C. COORDINATE LOCATION OF BASE STATION AND CALL BOX STATIONS WITH THE AHJ AND ARCHITECT PRIOR TO ROUGH-IN.
- D. SUBMITTAL SHALL INCLUDE EQUIPMENT DATA SHEETS, OPERATING MANUALS AND DETAILED WIRING SCHEMATICS.



COMMUNICATION RACEWAY WIRING DIAGRAM NO SCALE



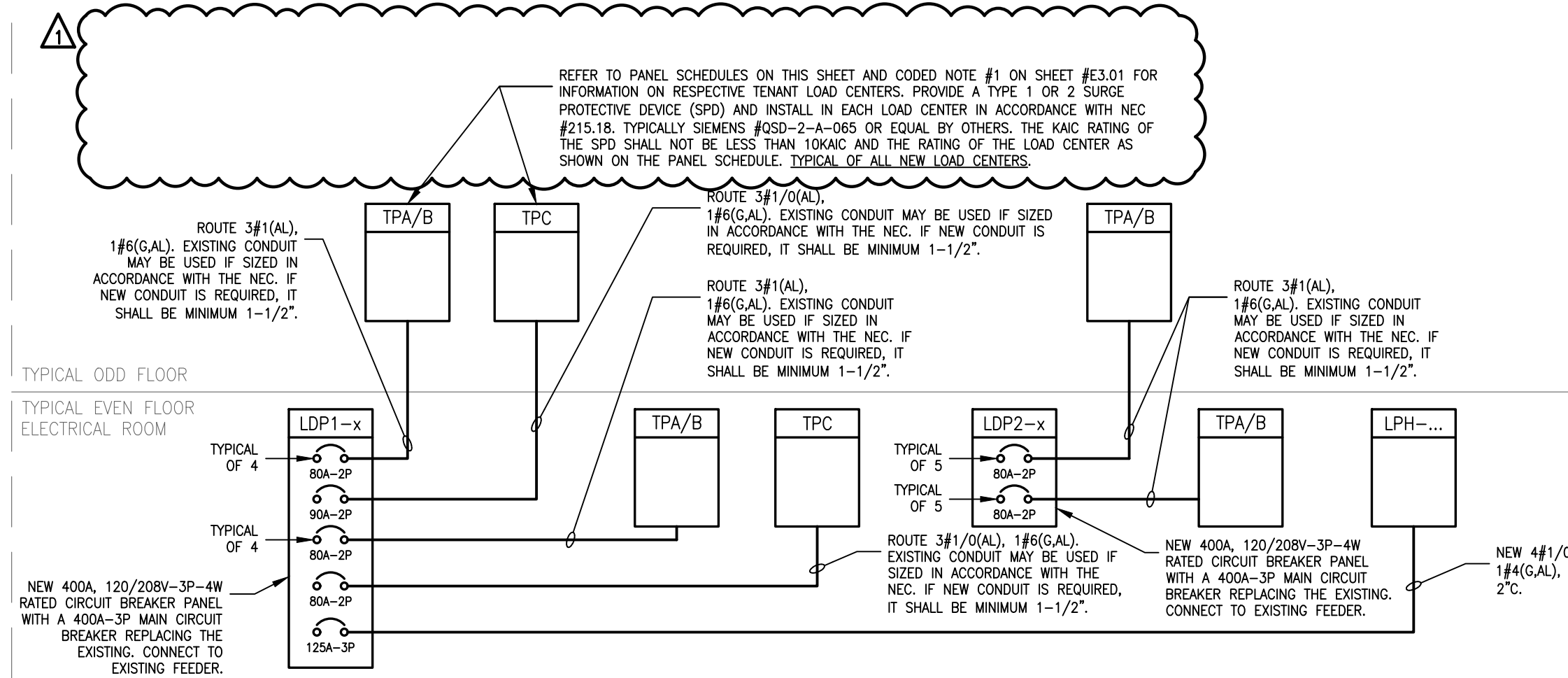
COMMUNICATION RACEWAY WIRING DIAGRAM CODED NOTES

- 1. ROUTE TWO 4' PVC UNDERGROUND CONDUITS (WITH PULLWIRE) TO LOCATION DESIGNATED BY TELEPHONE AND TELEVISION COMPANIES. COORDINATE WITH CIVIL AND OWNER FOR EXACT LOCATIONS.
- 2. PROVIDE A 3/4" THICK PLYWOOD DOORBACK 4' X 4' X 3/4" THICK PAINTED WITH FIRE RETARDANT PAINT, INCLUDE TWO DOUBLE DUPLEX RECEPTABLES AND TWO DEDICATED 20A-120V-1P BRANCH CIRCUITS.
- 3. PROVIDE TWO 4" CONDUITS (WITH PULLWIRE) ROUTED TO SECOND FLOOR TERMINAL BOARD. VERIFY EXACT ROUTING IN FIELD.
- 4. PROVIDE TERMINAL BOARD AS DESCRIBED IN NOTE 2 ABOVE. TERMINAL BOARD AT THIS LOCATION TO BE 8' X 4' X 3/4" THICK AND SHALL INCLUDE FOUR DOUBLE DUPLEX RECEPTABLES AND FOUR DEDICATED 20A-120V-1P BRANCH CIRCUITS.
- 5. PROVIDE TWO 4" SLEEVES THROUGH FLOOR FOR COMMUNICATION CABLEING PROVIDED BY OTHERS.
- 6. PROVIDE A COPPER GROUNDING BUS AND A #6 AWG GROUNDING CONDUCTOR TO ELECTRIC SERVICE GROUNDING POINT(S).
- 7. PROVIDE A 1" CONDUIT, (1) RG-6 COAXIAL CABLE, AND (1) CAT6 CABLE TO EACH APARTMENT UNIT STRUCTURED MEDIA ENCLOSURE. REFER TO DIAGRAM ON DRAWING #E3.00 FOR ADDITIONAL INFORMATION.

SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|--|--|
| AA/EM | LUMINAIRE. "AA" INDICATES TYPE. "EM" INDICATES SWITCH CONTROL. "EM" INDICATES LUMINAIRE HAS INTEGRAL 90-MINUTE EMERGENCY BATTERY DRIVER. |
| N/L | LUMINAIRE WIRED FOR 24-HOUR OPERATION, INDICATED WITH HATCH AND A "N/L" DESIGNATION. |
| EMERGENCY LIGHTING BATTERY UNIT WITH HEADS AS INDICATED. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. | |
| □ | EMERGENCY LIGHTING BATTERY UNIT WITH HEADS AS INDICATED. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. |
| □ | CONTROL OF SPECIFIED LUMINAIRES |
| □ | THREE-WAY TYPE |
| □ | FOUR-WAY TYPE |
| □ | DOUBLE-POLE TYPE |
| □ | PROGRAMMABLE TIMER SWITCH. TYPICALLY HONEYWELL #RPLS730B. |
| □ | LINE VOLTAGE MULTI-TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF SWITCH. REFER TO DIAGRAM ON DRAWING #E0.03 |
| □ | LINE VOLTAGE MULTI-TECHNOLOGY WALL SWITCH VACANCY SENSOR WITH MANUAL ON/OFF SWITCH. REFER TO DIAGRAM ON DRAWING #E0.03 |
| □ | "VS" LOW VOLTAGE ON/OFF MASTER SWITCH. |
| □ | "LV" LOW VOLTAGE ON/OFF SWITCH. |
| □ | "LV2" DUAL ZONE LOW VOLTAGE ON/OFF SWITCH. |
| □ | "LV4" QUAD ZONE LOW VOLTAGE ON/OFF SWITCH. |
| □ | "LV0" LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION. |
| □ | "LV02" DUAL ZONE LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION. |
| □ | "LV04" QUAD ZONE LOW VOLTAGE ON/OFF SWITCH WITH DIMMER FUNCTION. |
| □ | "SCN" SCENE CONTROLLER CAPABLE OF A MINIMUM OF FOUR PRESETS. |
| □ | LINE VOLTAGE WALLBOX TYPE DIMMING SWITCH. COORDINATE DIMMING PROTOCOL OF THIS DIMMING SWITCH AND LIGHTING LOAD SERVED PRIOR TO PURCHASING PURCHASE ORDER. "G" INDICATES SWITCH CONTROL. |
| □ | MULTI-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR WITH 20 AMP RATED POWER PACK. "X" REPRESENTS CONTROLLED LIGHTING ZONE. REFER TO DIAGRAM ON DRAWING #E0.03 |
| □ | LOW VOLTAGE CEILING MOUNTED PHOTOSENSORS, "X" REPRESENTS CONTROLLED LIGHTING ZONE. |
| □ | LOW VOLTAGE MULTI-TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, "X" REPRESENTS CONTROLLED LIGHTING ZONE. |
| □ | LOW VOLTAGE MULTI-TECHNOLOGY CEILING MOUNTED VACANCY SENSOR, "X" REPRESENTS CONTROLLED LIGHTING ZONE. |
| □ | CIRCUITRY TURNING UP |
| □ | CIRCUITRY TURNING DOWN |
| □ | CONDUIT HOME RUN TO PANEL/CIRCUIT BREAKER AS INDICATED. ALL UNMARKED HOMERUNS TO CONTAIN 2-12 AWG & 1-12 AWG GND IN 3/4" CONDUIT (MINIMUM), UNLESS NOTED OTHERWISE. SIZE CONDUIT AND PROVIDE JUNCTION BOXES PER CODE UNLESS OTHERWISE NOTED. |
| □ | DWELLING UNITS; DWELLING UNIT LOAD CENTER. |
| □ | ALL OTHER AREAS; BRANCH CIRCUIT PANELBOARD. |
| □ | DISCONNECT SWITCH. REFER TO EQUIPMENT SCHEDULE OR PLAN NOTE FOR FUSING NECESSITY, SIZES, RATINGS, ETC. |
| □ | DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. |
| □ | DOUBLE DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. |
| □ | GFCI GROUND TYPE DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. |
| □ | DUPLEX RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE MOUNTED AT 18" AFF UNLESS NOTED OTHERWISE. RECEPTACLE SHALL BE SPLIT WIRED SUCH THAT TOP OUTLET TO BE WIRED FOR SWITCHING TO SWITCH INDICATED BY 'S'. |
| □ | TAMPER RESISTANT, POP-UP COUNTER RECEPTACLE - 125 VOLT, 20 AMPERE, 2 POLE, 3 WIRE, GROUNDING TYPE. TYPICALLY BRYANT #RC220dx. |
| □ | FLOOR BOX WITH DUPLEX RECEPTACLE. PROVIDE APPROPRIATE |

| TYPICAL LDPXXX ELECTRIC SERVICE CALCULATION | | | | |
|--|------|----------|------|---------------------------|
| DESCRIPTION | AREA | QUANTITY | LOAD | TOTAL WC / N.E.C. ARTICLE |
| 1 BEDROOM UNITS | | | | |
| UNIT 1A | 650 | 6 | 3 | 11700 220 84(c)(1) |
| UNIT 1B | 650 | 2 | 3 | 3900 220 84(c)(1) |
| UNIT 1C | 900 | 2 | 3 | 5400 220 84(c)(1) |
| TOTAL CONNECTED LIGHTING/RECEPTACLE LOAD: | | | | 21,000 W |
| SMALL APPLIANCE BRANCH CIRCUITS | - | 20 | 1500 | 30000 220 84(c)(2) |
| REFRIGERATOR | - | 10 | 600 | 6000 220 84(c)(3) |
| ELECTRIC RANGE/OVEN | - | 10 | 8000 | 80000 220 84(c)(3) |
| RANGE HOOD/MICROWAVE | - | 10 | 1880 | 18800 220 84(c)(3) |
| 1A/1B HVAC | - | 8 | 3570 | 28560 220 84(c)(5) |
| 1C HVAC | - | 2 | 6270 | 12540 220 84(c)(5) |
| TOTAL CONNECTED EQUIPMENT LOAD: | | | | 173,900 W |
| TOTAL CONNECTED LOAD: | | | | 194,900 W |
| DEMAND FACTOR: | | | | 43% TABLE 220.84 |
| TOTAL DWELLING UNIT DEMAND LOAD: | | | | 83,807 W |
| ADDITIONAL PANEL DEMAND LOAD: TYP. LPH2/4/6: | | | | 36.98 KW |
| TOTAL SERVICE DEMAND LOAD: | | | | 120,782 W |
| AMPS AT 120/208V-3Ø-4W | | | | 335.3 A |



1 TYPICAL DUAL FLOOR PARTIAL POWER RISER DIAGRAM
E3.00 SCALE: 1/4" = 1'-0" TYPICAL OF 7

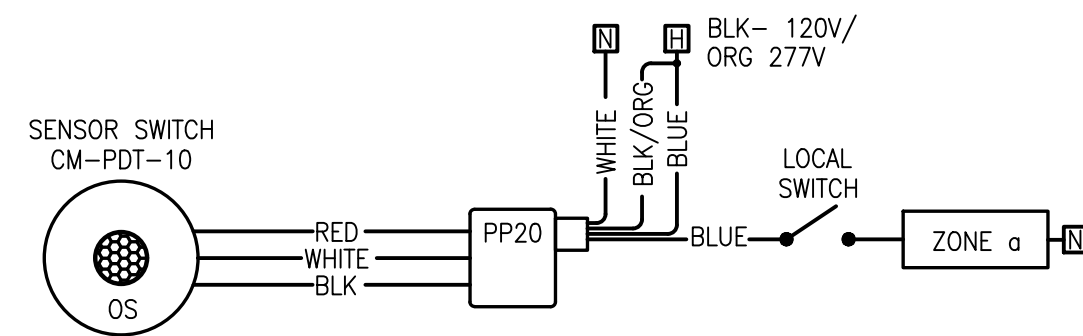
| COMMON AREA LUMINAIRE SCHEDULE | | | | | | |
|--------------------------------|-----------------|--------------|---------|--|---|---|
| TYPE | LAMP | WATTAGE | VOLTAGE | DESCRIPTION | CATALOG NUMBER | EQUIVALENT MANUFACTURER/REMARKS |
| LT-1 | LED 3000K 750L | 9.4 | 120 | 6" RECESSED DOWNLIGHT. | ADVANTAGE #AICVDFLEDES-U-30-30K-W6060-ZDM | - |
| LT-2 | LED 3000K 2400L | 30 | 120 | 37" DIAMETER CHANDELIER. | ALORA #ALONSO CH320837UBAR | - |
| LT-3 | LED 3000K | 40 | 120 | WALL SCONCE-ADA CERTIFIED WITH BLACK FINISH. | CDS LIGHTING #T00B-P1-30K-BK-USV | - |
| LT-4 | LED 3000K | 2.2W/FT | 120 | TAPE LIGHT - UNDER CABINET. | KLUS #K-V8T30-0720-24 | - |
| LT-5 | LED 3000K 1725L | 38 | 120 | 15" SURFACE MOUNT WITH MATTIE BLACK FINISH. | ALORA MOOD #ADELAIDE FM554015MB | - |
| LT-6 | LED 3000K 400L | 6 | 120 | ALONSO 8" WALL SCONCE WITH WHITE FINISH. | ALORA #DAHLIA WV34600UBAR | - |
| LT-7 | LED 3000K 1150L | 6.6 | 120 | 24" VANITY WALL SCONCE WITH MATTIE BLACK FINISH. | KUZCO #ISSA VL418021MB | - |
| LT-8 | LED 3000K 6500L | 26.1 | 120 | 24"x48" RECESSED PANEL WITH WHITE FINISH. | LEDALITE #SHINE 3324x5TL93065A1DE | - |
| LT-8A | LED 3000K 2140L | 19.2 | 120 | LED LINEAR DIRECT/INDIRECT SUSPENDED LIGHT 2.5"W X 2'L WITH SATIN WHITE FINISH. | ALW LIGHTING #SP2.55-S2-MED/80/3000K/V05-CR/S-MIN/80/3000K-V05-CR/S-SW-UNV | - |
| LT-8B | LED 3000K 5350L | 48 | 120 | LED LINEAR DIRECT/INDIRECT SUSPENDED LIGHT 2.5"W X 5'L WITH SATIN WHITE FINISH. | ALW LIGHTING #SP2.55-S5-MED/80/3000K/V05-CR/S-MIN/80/3000K-V05-CR/S-SW-UNV | - |
| LT-8C | LED 3000K 9630L | 86.4 | 120 | LED LINEAR DIRECT/INDIRECT SUSPENDED LIGHT 2.5"W X 9'L WITH SATIN WHITE FINISH. | ALW LIGHTING #SP2.55-S9-MED/80/3000K/V05-CR/S-MIN/80/3000K-V05-CR/S-SW-UNV | - |
| LT-8D | LED 3000K 7490L | 67.2 | 120 | LED LINEAR DIRECT/INDIRECT SUSPENDED LIGHT 2.5"W X 7'L WITH SATIN WHITE FINISH. | ALW LIGHTING #SP2.55-S7-MED/80/3000K/V05-CR/S-MIN/80/3000K-V05-CR/S-SW-UNV | - |
| LT-10 | LED 3000K 4000L | 34 | 120 | 12"x48" UTILITY LIGHT WITH WHITE FINISH. | DAYBRITE #NWL-4-40L-BCST-UNV-DIM | - |
| LT-10S | LED 3000K 4000L | 34 | 120 | 12"x48" UTILITY LIGHT WITH WHITE FINISH AND INTEGRAL OCCUPANCY SENSOR. | DAYBRITE #NWL-4-40L-BCST-UNV-DIM-OCC | - |
| LT-12 | LED 3000K | 10 | 120 | 2" MINI RECESSED DOWNLIGHT WITH WHITE FINISH. | CSL LIGHT ENGINE #A2-IC-R-ST-10-S-SHB HOUSING: #A2-SG-R-0 IBIM: #RSTWT-STWT | - |
| LT-13 | LED 3000K 1000L | 6.6 | 120 | 24" LINEAR RECESSED LIGHT UNIT ENTRY WITH WHITE FINISH. | ALC LIGHTING #NELIO ES14 | - |
| LT-14 | LED 3000K | 23 | 120 | 11" SURFACE MOUNT - EXTERIOR RATED WITH WHITE FINISH. | ALCON #16007/23W-30K-WH | - |
| LT-E7 | LED XX 83L/FT. | 1.5 PER FOOT | 24 | LED 45-DEGREE ANGLE TAPE LIGHT AND EXTRUSION TO BE MOUNTED ON BUILDING EXTERIOR AS ACCENT LIGHTING. REFER TO DETAIL ON SHEET #E1.02. | KLUS TAPE: WP-K-CR-XX-1210-24V HOUSING: #45-ALU COVER: #KA CLEAR SERIES | INCLUDE A #E-60-24V POWER SUPPLY AT EACH FLOOR. PROVIDE ACCESS PANEL IF REQUIRED. INCLUDE ALL NECESSARY MOUNTING BRACKETS, END CAPS, AND ANY OTHER ACCESSORIES REQUIRED FOR AN 18"-0" RUN AT FLOORS 3-15. |
| X-1 | LED | 1 | 120 | LED EXIT SIGN WITH WHITE THERMOPLASTIC HOUSING AND RED LETTERING. | LITHONIA LIGHTING #LDM-S-W-3-R-120/277 | EXITRONIX |

LUMINAIRE SCHEDULE GENERAL NOTES:

- VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT/OWNER PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE AFOREMENTIONED PARTIES.
- PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND ENSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
- VERIFY FINAL LUMINAIRE LOCATIONS WITH OTHER CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, FIRE ALARM DEVICES, SPEAKERS, ETC., WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
- ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT/OWNER PRIOR TO FINAL BID PRICING.
- SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS CUT SHEET SUBMITAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITAL AND ON THE BID FORM.
- ANY FINAL SELECTED/INSTALLED LIGHT FIXTURES WITHOUT A SPECIFICATION (OR TO BE SPECIFIED LATER BY ARCHITECT/OWNER) LISTED IN THIS SCHEDULE SHALL NOT EXCEED THE WATTAGE LISTED, SHALL NOT HAVE A LOWERED DELIVERED LUMENS (IF LISTED), AND SHALL MATCH THE COLOR TEMPERATURE (IF LISTED).

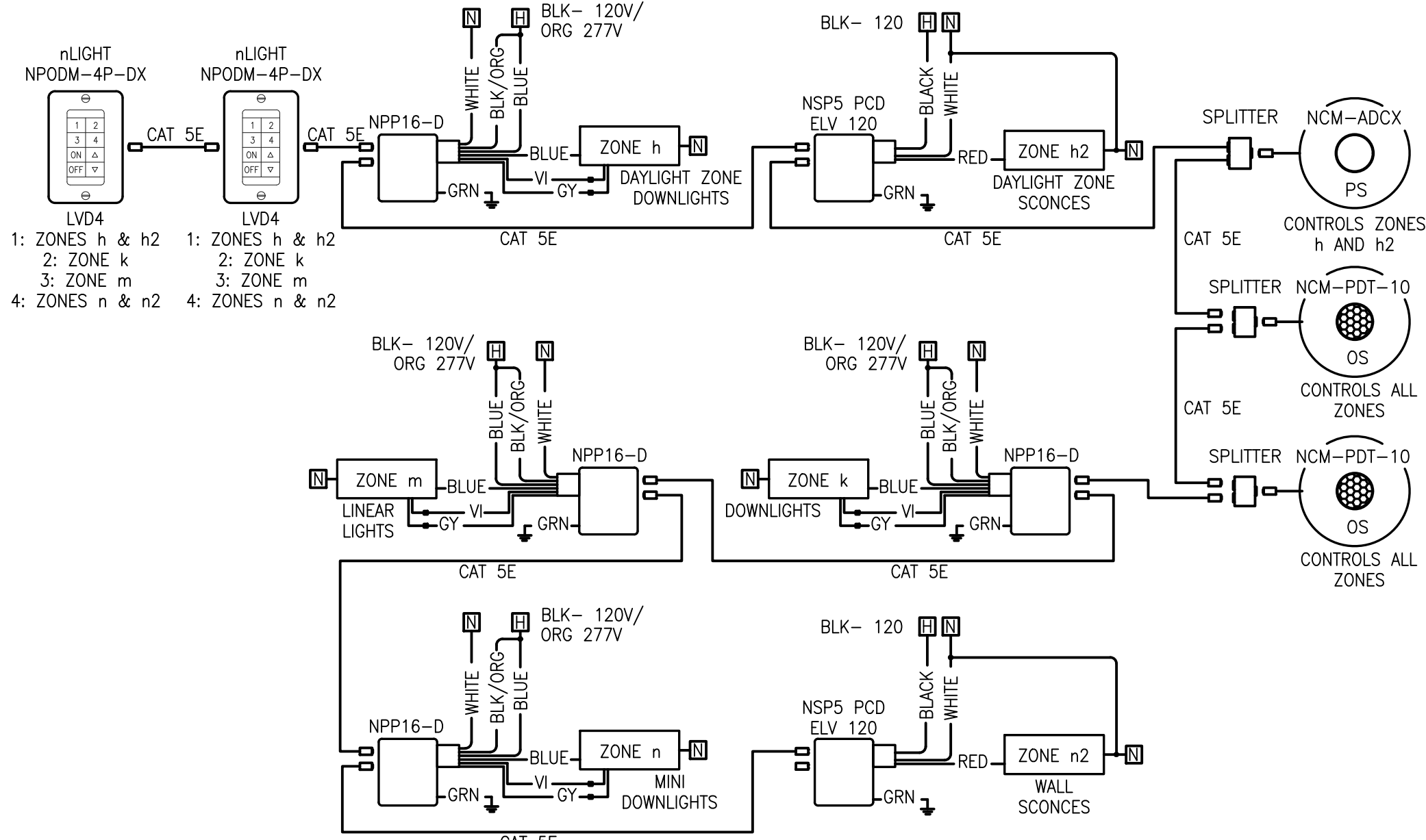
VACANCY & OCCUPANCY SENSOR SWITCH WIRING DIAGRAM

- SCALE: NOT TO SCALE
- NOTES:
- VACANCY SENSOR SHALL BE "SENSOR SWITCH" WSX-PDT-SA OR APPROVED EQUAL.
 - OCCUPANCY SENSOR SHALL BE "SENSOR SWITCH" WSX-PDT OR APPROVED EQUAL.
 - REFER TO SPECIFIC LOCATIONS AND SET FOR VACANCY "VS" OR OCCUPANCY "OS" AS INDICATED. SET TIME DELAY TO 20 MINUTES.



OCCUPANCY SENSOR WIRING DIAGRAM (LARGE ROOM)

- SCALE: NOT TO SCALE
- NOTES:
- ALL LOW VOLTAGE WIRING AND TERMINATIONS TO BE BY ELECTRICAL CONTRACTOR.
 - MAXIMUM NUMBER OF SENSORS PER POWER PACK IS DEPENDANT ON MANUFACTURER. COORDINATE QUANTITY OF POWER PACKS WITH MANUFACTURER.
 - OCCUPANCY SENSOR SHALL BE DUAL TECHNOLOGY "SENSOR SWITCH" CM-PDT-10 OR APPROVED EQUAL. ALL EXPOSED CONTROL WIRING SHALL BE IN CONDUIT.



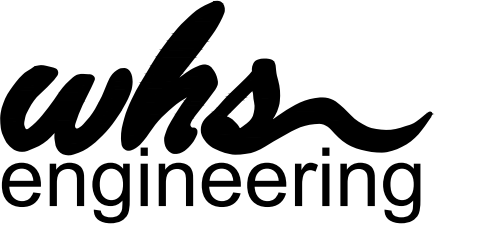
COMMUNITY ROOM LIGHTING CONTROL DIAGRAM

- SCALE: NOT TO SCALE
- DIAGRAM NOTES
- SYSTEM SHOWN IS BASIS OF DESIGN BY ACUITY BRANDS. PROVIDE POWER PACKS AS REQUIRED TO ACCOMMODATE ZONES AND LOAD TYPES SHOWN ON PLAN AND IN LUMINAIRE SCHEDULE. ALTERNATE SYSTEM(S) MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY ARCHITECT AND ENGINEER PRIOR TO BID. ALTERNATE SYSTEM(S) SHALL BE PRICED AS ALTERNATE TO BASIS OF DESIGN SYSTEM AND LISTED AS SUCH IN SUBMITTED BID.

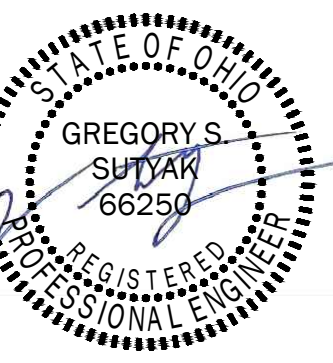


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| REV | DATE | DESCRIPTION |
|-----|------------|------------------------|
| | 2023.12.18 | ISSUED FOR 50% PACKAGE |
| | 2024.02.02 | ISSUED FOR OHFA |
| | 2024.03.22 | ISSUED FOR PERMIT |
| Δ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



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 Phone: 216 227 8505



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Marquette Manor - Interior and Exterior Improvements
 Cincinnati Metropolitan Housing Authority
 1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

| REV | DATE | DESCRIPTION |
|------------|------------------------|-------------|
| 2023.12.18 | ISSUED FOR 50% PACKAGE | |
| 2024.02.02 | ISSUED FOR OHFA | |
| 2024.03.22 | ISSUED FOR PERMIT | |
| 2024.04.12 | ISSUED FOR ADDENDUM 1 | |

| TYPICAL CIRCUIT BREAKER PANEL SCHEDULE | | | | | | | | | | | | | | | | | | | |
|--|-----|-----------------------------|------|------|------|------|------|---------------|-----|----|-------|------|------|-------------------|------|--------------------|-----|------|--|
| NAME: | | VOLTAGE: 208/120V-3Ø-4W | | | | | | BUS: 225A | | | | | | KAIC: 10 | | | | | |
| MOUNTING: SURFACE | | LOCATION: WEST UTILITY | | | | | | MAIN LUG ONLY | | | | | | ENCLOSURE: NEMA 1 | | | | | |
| NOTE | CKT | DESCRIPTION | LTG | REC | FSEQ | HVAC | MISC | CB | PH | CB | MISC | HVAC | FSEQ | REC | LTG | DESCRIPTION | CKT | NOTE | |
| | 1 | EVEN FLOOR ELECTRIC DRYER | | | | | | A | 30A | | | | | | | | 2 | G | |
| | 3 | EVEN FLOOR ELECTRIC DRYER | | | | | | B | 30A | | | | | | | | 4 | G | |
| | 5 | EVEN FLOOR ELECTRIC DRYER | | | | | | C | 30A | | | | | | | | 6 | G | |
| | 7 | EVEN FLOOR ELECTRIC DRYER | | | | | | A | 30A | | | | | | | | 8 | G | |
| | 9 | EVEN FLOOR WASHER | | | | | | B | 20A | | | | | | | | 10 | G | |
| | 11 | EVEN FLOOR WASHER | | | | | | C | 20A | | | | | | | | 12 | G | |
| | 13 | EVEN FLOOR TELEPHONE BOARD | | | | | | A | 20A | | | | | | | | 14 | G | |
| | 15 | EVEN FLOOR LIGHTING CIRCUIT | 0.70 | | | | | B | 20A | | | | | | | | 16 | | |
| | 17 | LT. BOARD REC | | | | | | C | 20A | | | | | | | | 18 | G | |
| | 19 | LT. BOARD REC | | | | | | A | 20A | | | | | | | | 20 | | |
| | 21 | SPARE | | | | | | B | 30A | | | | | | | | 22 | G | |
| | 23 | SPARE | | | | | | C | 30A | | | | | | | | 24 | G | |
| | 25 | SPARE | | | | | | A | 20A | | | | | | | | 26 | | |
| | 27 | SPARE | | | | | | B | 20A | | | | | | | | 28 | | |
| | 29 | SPARE | | | | | | C | 20A | | | | | | | | 30 | | |
| | 31 | SPARE | | | | | | A | 20A | | | | | | | | 32 | | |
| | 33 | SPARE | | | | | | B | 20A | | | | | | | | 34 | | |
| | 35 | SPARE | | | | | | C | 20A | | | | | | | | 36 | | |
| | 37 | SPARE | | | | | | A | 20A | | | | | | | | 38 | | |
| | 39 | SPARE | | | | | | B | 20A | | | | | | | | 40 | | |
| | 41 | BALCONY TAPE LIGHTING | | | | | | C | 20A | | | | | 0.90 | | ROOFTOP REC | 42 | 14 | |
| TOTALS (KW) | | | 0.70 | 0.00 | 0.00 | 0.00 | | | PH | | 20.70 | 0.00 | 0.00 | 0.90 | 0.00 | TOTALS (KW) | | | |

| LOAD SUMMARY | | |
|--------------|---------------|---------------|
| KWC | DF | KWD |
| LTG | 0.7 | 1.25 |
| REC | 0.0 | 0.0 |
| FSEQ | 0.0 | 0.0 |
| HVAC | 0.0 | 0.0 |
| MISC | 35.2 | 1.00 |
| TOTAL | 36.8 | 37.0KW |
| AMPS | 102.1A | 102.6A |

| PANEL DATA | | | | | | | | | |
|-------------|------|------|-----|------|------|------|--|--|--|
| KWD | KWC | LTG | REC | FSEQ | HVAC | MISC | | | |
| KW Phase A: | 11.6 | 11.5 | 0.0 | 0.0 | 0.0 | 11.5 | | | |
| KW Phase B: | 12.1 | 11.9 | 0.7 | 0.0 | 0.0 | 11.2 | | | |
| KW Phase C: | 13.4 | 13.4 | 0.0 | 0.0 | 0.0 | 12.5 | | | |

NOTES: G - GFCI TYPE CIRCUIT BREAKER. 14 - PROVIDE AT 14TH FLOOR LOCATION ONLY. THIS SHALL BE A SPACE IN OTHER PANELS. 2 - PROVIDE AT 2ND FLOOR LOCATION ONLY. THIS SHALL BE A SPACE IN OTHER PANELS.

| CIRCUIT BREAKER PANEL SCHEDULE | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----|---------------------------------|------|------|------|------|------|---------------|-----|----|------|------|------|-------------------|----------------------------|---------------------|-----|------|--|
| NAME: | | VOLTAGE: 208/120V-3Ø-4W | | | | | | BUS: 225A | | | | | | KAIC: 10 | | | | | |
| MOUNTING: SURFACE | | LOCATION: CUSTODIAN | | | | | | MAIN LUG ONLY | | | | | | ENCLOSURE: NEMA 1 | | | | | |
| NOTE | CKT | DESCRIPTION | LTG | REC | FSEQ | HVAC | MISC | CB | PH | CB | MISC | HVAC | FSEQ | REC | LTG | DESCRIPTION | CKT | NOTE | |
| | 1 | CONFERENCE LIGHTING | 0.50 | | | | | A | 20A | | | | | | 1.08 | CONFERENCE ROOM REC | 2 | | |
| | 3 | PUBLIC 1F CORRIDOR LIGHTING | 0.75 | | | | | B | 15A | | | | | 0.75 | BATHROOM BASEBOARD HEATING | 4 | | | |
| | 5 | SPARE | | | | | | C | 20A | | | | | | | | 6 | | |
| | 7 | SPARE | | | | | | A | 20A | | | | | | | | 8 | | |
| | 9 | SPARE | | | | | | B | 20A | | | | | | | | 10 | | |
| | 11 | SPARE | | | | | | C | 20A | | | | | | | | 12 | | |
| | 13 | SPARE | | | | | | A | 20A | | | | | | | | 14 | | |
| | 15 | SPARE | | | | | | B | 20A | | | | | | | | 16 | | |
| | 17 | SPARE | | | | | | C | 20A | | | | | | | | 18 | | |
| | 19 | SPARE | | | | | | A | 20A | | | | | | | | 20 | | |
| | 21 | SPARE | | | | | | B | 20A | | | | | | | | 22 | | |
| | 23 | SPARE | | | | | | C | 20A | | | | | | | | 24 | | |
| | 25 | SPARE | | | | | | A | 20A | | | | | | | | 26 | | |
| | 27 | SPARE | | | | | | B | 20A | | | | | | | | 28 | | |
| | 29 | SPARE | | | | | | C | 20A | | | | | | | | 30 | | |
| | 31 | SPARE | | | | | | A | 15A | | 1.24 | | | | | | 32 | | |
| | 33 | SPARE | | | | | | B | 15A | | 1.24 | | | | | | 34 | | |
| | 35 | SPARE | | | | | | C | 15A | | 1.24 | | | | | | 36 | | |
| | 37 | SPARE | | | | | | A | 15A | | 1.24 | | | | | | 38 | | |
| | 39 | FIRST FLOOR INTERIOR MINI SPLIT | | | | 0.15 | | B | 20A | | 1.65 | | | | | | 40 | | |
| | 41 | UNITS | | | | 0.15 | | C | 20A | | 1.65 | | | | | | 42 | | |
| TOTALS (KW) | | | 1.25 | 0.00 | 0.00 | 0.30 | 0.00 | | PH | | 0.00 | 9.76 | 0.00 | 1.08 | 0.00 | TOTALS (KW) | | | |

| LOAD SUMMARY | | |
|--------------|--------------|---------------|
| KWC | DF | KWD |
| LTG | 1.3 | 1.25 |
| REC | 1.1 | 0.0 |
| FSEQ | 0.0 | 0.0 |
| HVAC | 10.1 | 1.00 |
| MISC | 0.0 | 0.0 |
| TOTAL | 12.4 | 12.7KW |
| AMPS | 34.4A | 35.3A |

| PANEL DATA | | | | | | | | | |
|-------------|-----|-----|-----|------|------|------|--|--|--|
| KWD | KWC | LTG | REC | FSEQ | HVAC | MISC | | | |
| KW Phase A: | 4.2 | 4.1 | 0.5 | 1.1 | 0.0 | 2.5 | | | |
| KW Phase B: | 4.7 | 4.5 | 0.8 | 0.0 | 0.0 | 3.8 | | | |
| KW Phase C: | 3.8 | 3.8 | 0.0 | 0.0 | 0.0 | 3.8 | | | |

NOTES: G - GFCI TYPE CIRCUIT BREAKER

| CIRCUIT BREAKER PANEL SCHEDULE | | | | | | | | | | | | | | | | | | | |
|--------------------------------|-----|---------------------------------|------|------|------|------|------|-------------|-----|----|------|-------|------|-------------------|-------------------------|----------------------|-----|------|--|
| NAME: | | VOLTAGE: 208/120V-3Ø-4W | | | | | | BUS: 200A | | | | | | KAIC: 10 | | | | | |
| MOUNTING: RECESSED | | LOCATION: MAIN ELECTRICAL | | | | | | MISC: 200/3 | | | | | | ENCLOSURE: NEMA 1 | | | | | |
| NOTE | CKT | DESCRIPTION | LTG | REC | FSEQ | HVAC | MISC | CB | PH | CB | MISC | HVAC | FSEQ | REC | LTG | DESCRIPTION | CKT | NOTE | |
| | 1 | MAIN ELECTRICAL FIRE ROOM LTG | 0.60 | | | | | A | 20A | | | | | | 0.15 | ELEVATOR RT LIGHTING | 2 | | |
| | 3 | CORRIDOR/MISC ROOM/CLOSET LTG | 0.60 | | | | | B | 20A | | | | | | 0.38 | ELEVATOR RT REC | 4 | | |
| | 5 | FITNESS TREADMILL | | | | | | C | 20A | | | | | 0.54 | ELEC ROOM AND LOBBY REC | 6 | | | |
| | 7 | FITNESS TREADMILL | | | | | | A | 20A | | | | | | | | 8 | | |
| | 9 | FIRST FLOOR INTERIOR MINI SPLIT | | | | 0.15 | | B | 20A | | 1.00 | | | | | | 10 | | |
| | 11 | UNITS | | | | 0.15 | | C | 15A | | 0.75 | | | | | | 12 | | |
| | 13 | SPARE | | | | | | A | 20A | | | | | | | | 14 | | |
| | 15 | SPARE | | | | | | B | 15A | | 1.01 | | | | | | 16 | | |
| | 17 | SPARE | | | | | | C | 20A | | 1.01 | | | | | | 18 | | |
| | 19 | SPARE | | | | | | A | 15A | | 1.01 | | | | | | 20 | | |
| | 21 | SPARE | | | | | | B | 15A | | 1.01 | | | | | | 22 | | |
| | 23 | SPARE | | | | | | C | 15A | | 1.01 | | | | | | 24 | | |
| | 25 | SPARE | | | | | | A | 15A | | 1.01 | | | | | | 26 | | |
| | 27 | SPARE | | | | | | B | 15A | | 1.01 | | | | | | 28 | | |
| | 29 | SPARE | | | | | | C | 15A | | 1.01 | | | | | | 30 | | |
| | 31 | SPARE | | | | | | A | 15A | | 1.01 | | | | | | 32 | | |
| | 33 | SPARE | | | | | | B | 15A | | 1.01 | | | | | | 34 | | |
| | 35 | SPARE | | | | | | C | 15A | | 1.01 | | | | | | 36 | | |
| | 37 | SPARE | | | | | | A | 15A | | 1.01 | | | | | | 38 | | |
| | 39 | SPARE | | | | | | B | 15A | | 1.01 | | | | | | 40 | | |
| | 41 | SPARE | | | | | | C | 15A | | 1.01 | | | | | | 42 | | |
| TOTALS (KW) | | | 1.20 | 0.00 | 0.00 | 0.30 | 0.00 | | PH | | 0.00 | 15.63 | 0.00 | 0.90 | 0.15 | TOTALS (KW) | | | |

| LOAD SUMMARY | | |
|--------------|--------------|---------------|
| KWC | DF | KWD |
| LTG | 1.4 | 1.25 |
| REC | 0.0 | 0.0 |
| FSEQ | 0.0 | 0.0 |
| HVAC | 15.9 | 1.00 |
| MISC | 3.0 | 1.00 |
| TOTAL | 21.2 | 21.5KW |
| AMPS | 58.8A | 59.7A |

| PANEL DATA | | | | | | | | | |
|-------------|-----|-----|-----|------|------|------|--|--|--|
| KWD | KWC | LTG | REC | FSEQ | HVAC | MISC | | | |
| KW Phase A: | 7.2 | 7.0 | 0.8 | 0.0 | 0.0 | 4.8 | | | |
| KW Phase B: | 6.3 | 6.2 | 0.6 | 0.4 | 0.0 | 5.2 | | | |
| KW Phase C: | 8.0 | 8.0 | 0.0 | 0.5 | 0.0 | 1.5 | | | |

NOTES: F - INSTALL AND LABEL PER NEC #760.41(B). L - PROVIDE LOCK-ON HANDLE

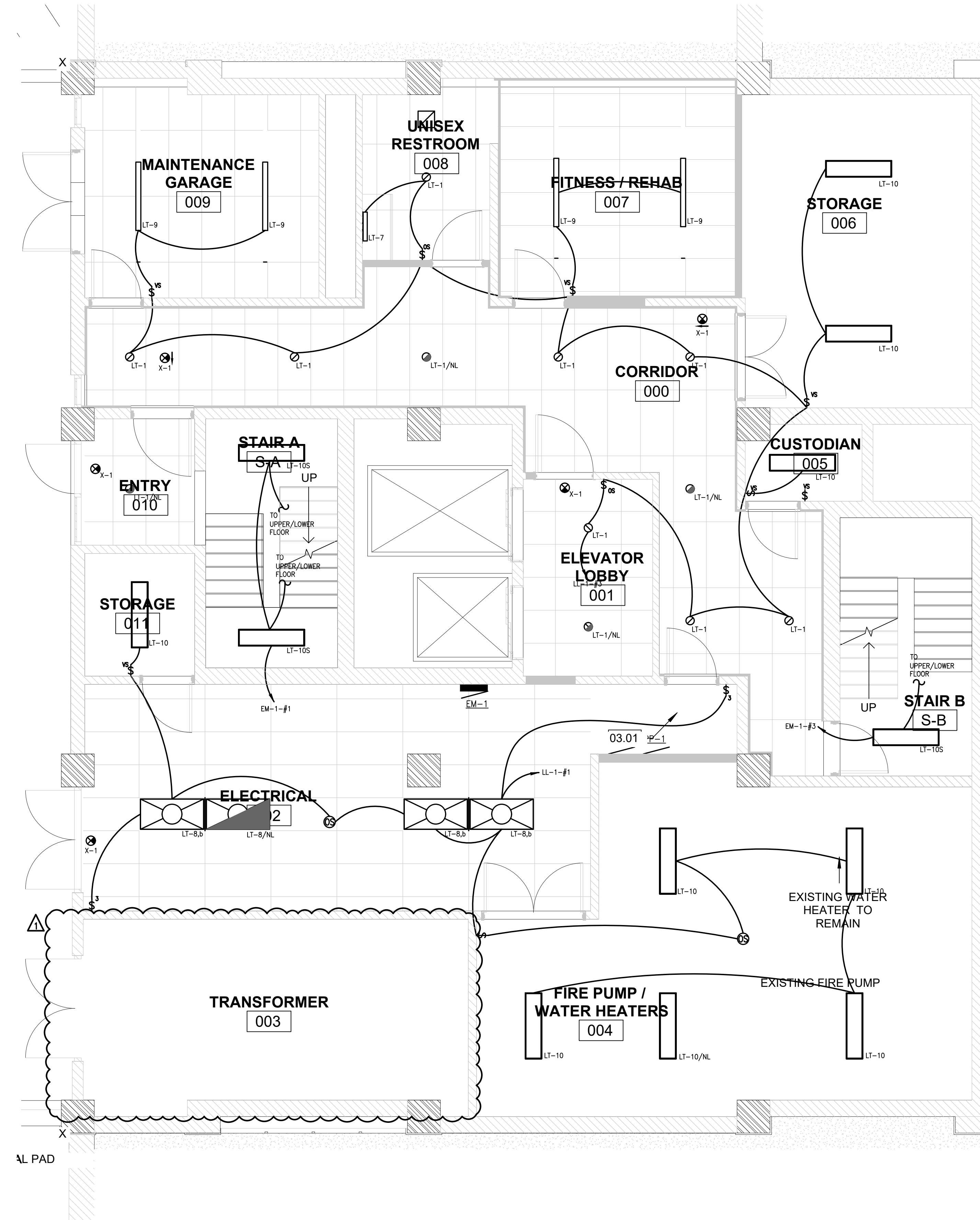
| TYPICAL EXISTING 1600A RISER BUS ELEC. SERVICE CALCULATION | | | | | |
|--|------|----------|------|----------|----------------|
| DESCRIPTION | AREA | QUANTITY | LOAD | TOTAL WC | N.E.C. ARTICLE |
| 1 BEDROOM UNITS | | | | | |
| UNIT 1A | 650 | 42 | 3 | 81900 | 220.84(c)(1) |
| UNIT 1B | 650 | 14 | 3 | 27300 | 220.84(c)(1) |
| UNIT 1C | 900 | 14 | 3 | 37800 | |

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- DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
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GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND EMERGENCY LUMINAIRES (ON GENERATOR, ALSO MARKED 'NL') SHALL BE CONNECTED TO A DEDICATED LIGHTING CIRCUIT IN PANEL EM1 AHEAD OF ANY CONTROLS SUCH AS SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS. THE LOWER LEVEL LIGHTS SHALL BE CONNECTED TO CIRCUIT #9.
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO WIRING SCHEDULE ON SHEET #E0.02 FOR 15A/20A POWER AND LIGHTING BRANCH CIRCUITS FOR ALL CONDUCTOR SIZES TO ACCOUNT FOR VOLTAGE DROP.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGH, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

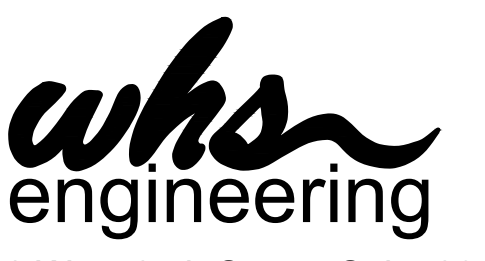


1 LOWER LEVEL LIGHTING PLAN
E1.00 SCALE: 1/4" = 1'-0"

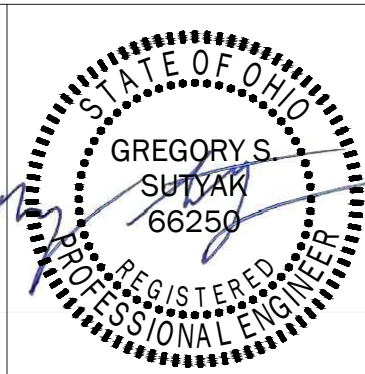


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Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

LOWER LEVEL LIGHTING PLAN
E1.00

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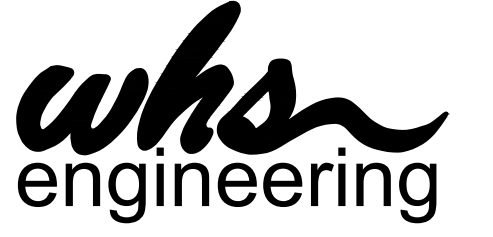
GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND EMERGENCY LUMINAIRES (ON GENERATOR, ALSO MARKED 'NL') SHALL BE CONNECTED TO A DEDICATED LIGHTING CIRCUIT IN PANEL EM1 AHEAD OF ANY CONTROLS SUCH AS SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS. THE FIRST FLOOR LIGHTS SHALL BE CONNECTED TO CIRCUIT #11.
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO WIRING SCHEDULE ON SHEET #E0.02 FOR 15A/20A POWER AND LIGHTING BRANCH CIRCUITS FOR ALL CONDUCTOR SIZES TO ACCOUNT FOR VOLTAGE DROP.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGH, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
- A NEW TYPED PANELBOARD DIRECTORY CARD SHALL BE PROVIDED FOR ALL PANELS INSTALLED OR MODIFIED UNDER THIS CONTRACT. NEW DIRECTORY CARDS SHALL BE LOCATED ON THE INSIDE DOOR OF ASSOCIATED PANELS.

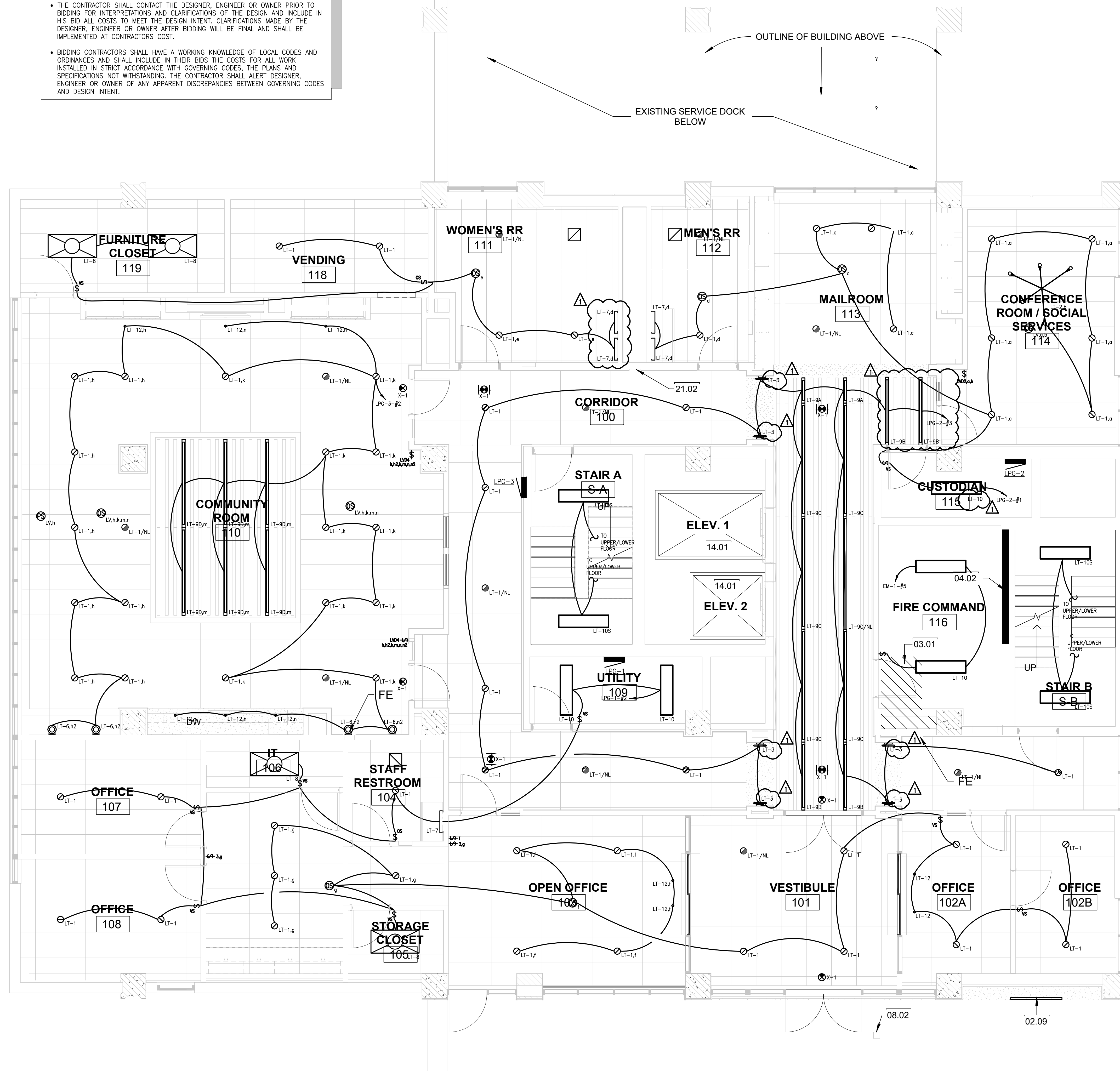


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03.06

1 FIRST FLOOR LIGHTING PLAN
E1.01 SCALE: 1/4" = 1'-0"



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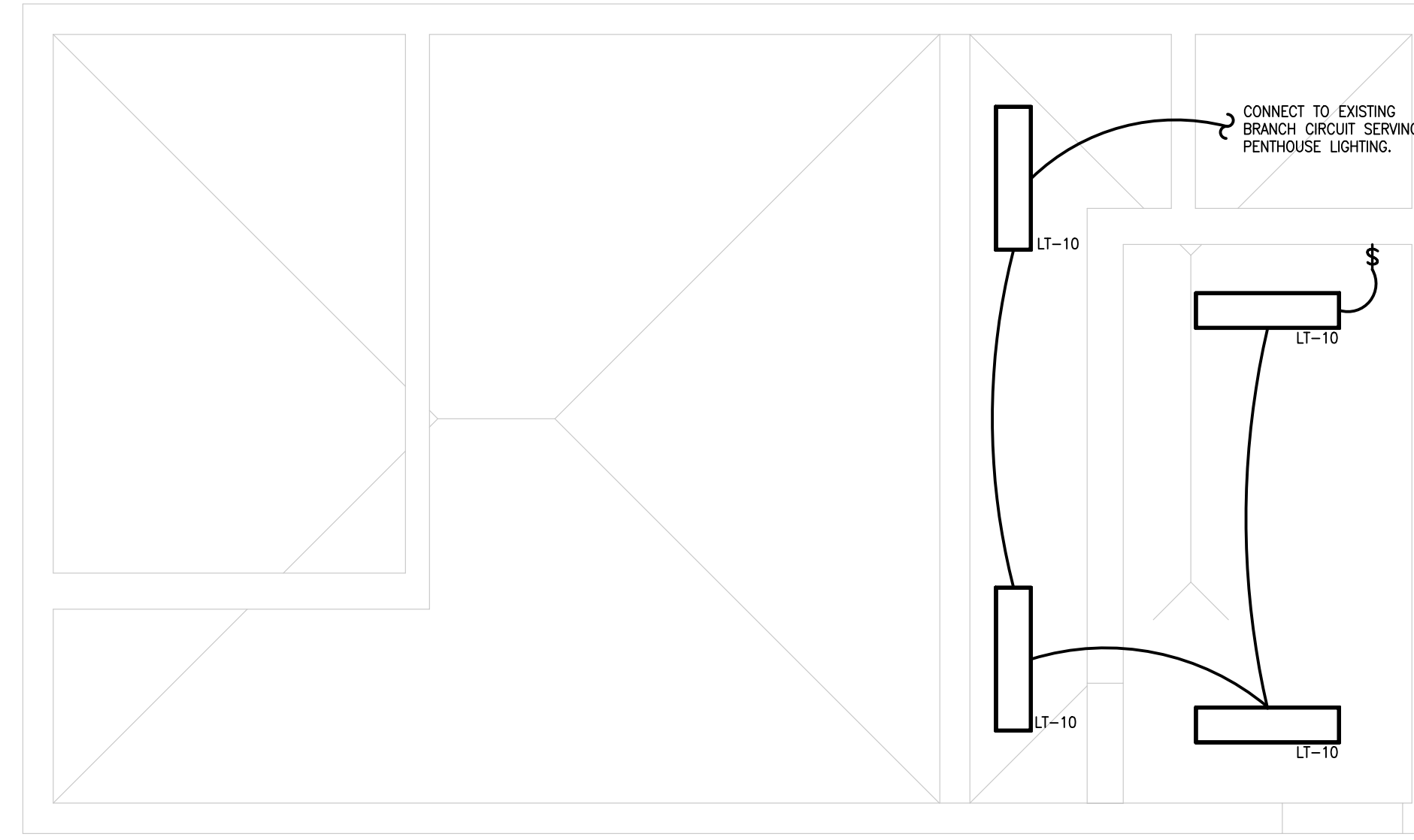
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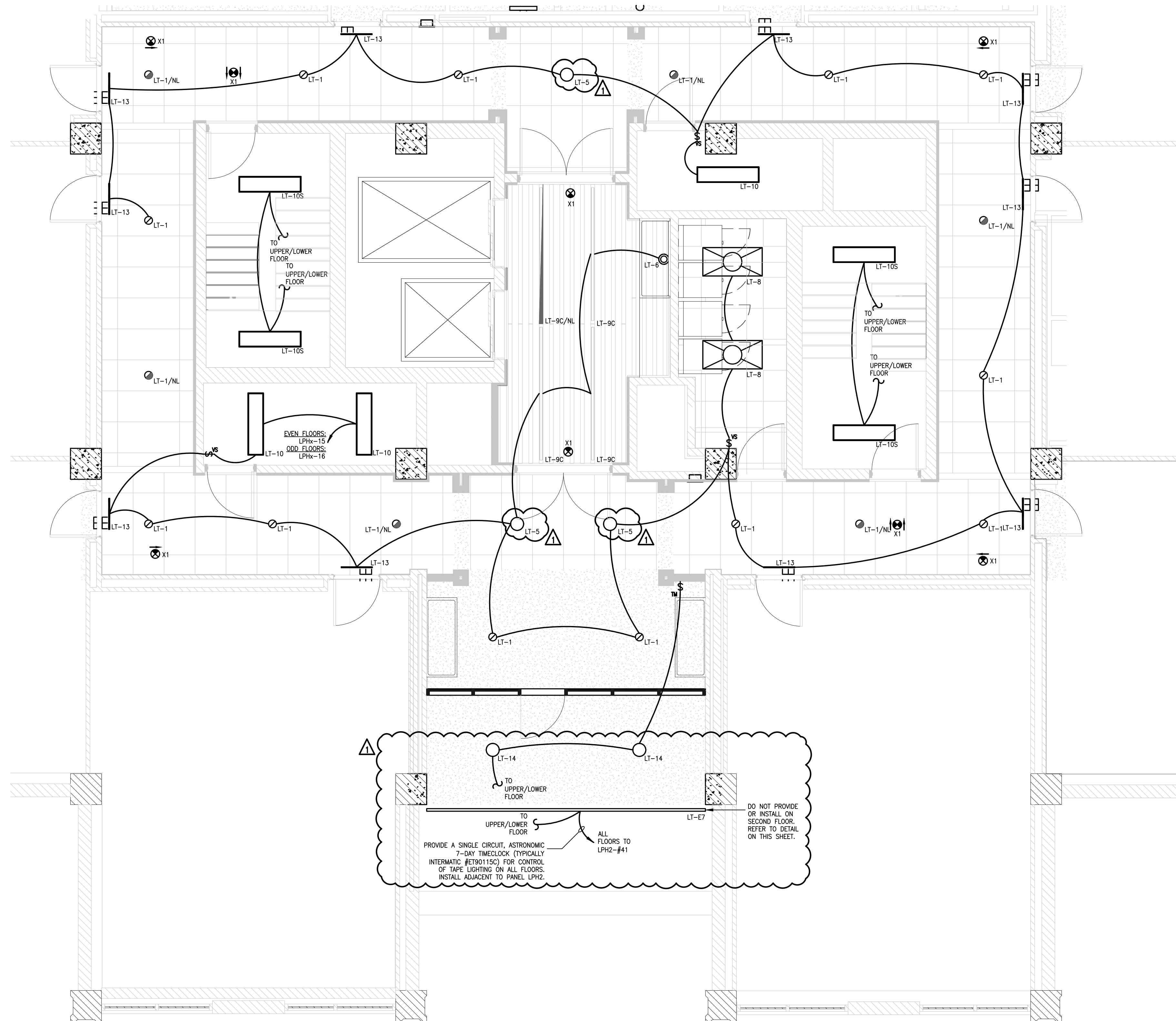
FIRST FLOOR LIGHTING PLAN
E1.01

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2 ELEVATOR PENTHOUSE LIGHTING PLAN
E1.02 SCALE: 1/4" = 1'-0"



1 TYPICAL 2ND THROUGH 15TH FLOOR LIGHTING PLAN
E1.02 SCALE: 1/4" = 1'-0"

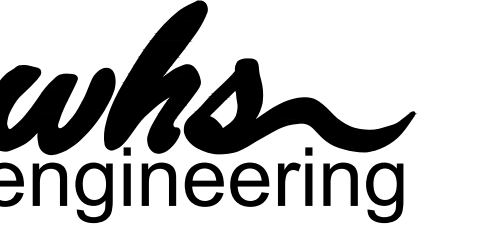
GENERAL LIGHTING PLAN NOTES

- ALL EXIT SIGNS AND EMERGENCY LUMINAIRES (ON GENERATOR, ALSO MARKED 'NL') SHALL BE CONNECTED TO A DEDICATED LIGHTING CIRCUIT IN PANEL EM1 AHEAD OF ANY CONTROLS SUCH AS: SWITCHES (DEVICE), OCCUPANCY SENSORS AND/OR RELAY CONTROLS. THE LIGHTS SHALL BE CONNECTED AS FOLLOWS:
 - 2F-8F WEST CORRIDOR: EM-1-#13
 - 2F-8F CENTRAL LOBBY: EM-1-#15
 - 2F-8F EAST CORRIDOR: EM-1-#17
 - 9F-15F WEST CORRIDOR: EM-1-#19
 - 9F-15F CENTRAL LOBBY: EM-1-#21
 - 9F-15F EAST CORRIDOR: EM-1-#23
- EXACT LOCATION OF ALL LUMINAIRES, AND EXACT MOUNTING HEIGHT OF ALL PENDANT MOUNTED LUMINAIRES SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ANY ROUGH-INS.
- REFER TO WIRING SCHEDULE ON SHEET #E0.02 FOR 15A/20A POWER AND LIGHTING BRANCH CIRCUITS FOR ALL CONDUCTOR SIZES TO ACCOUNT FOR VOLTAGE DROP.
- ALL WIRING SHALL BE IDENTIFIED BY PANELBOARD AND CIRCUIT NUMBER(S) IN ALL CABINETS, JUNCTION BOXES, WIRING TROUGHS, ENCLOSURES, SPLICE OR TERMINATION POINTS, ETC.
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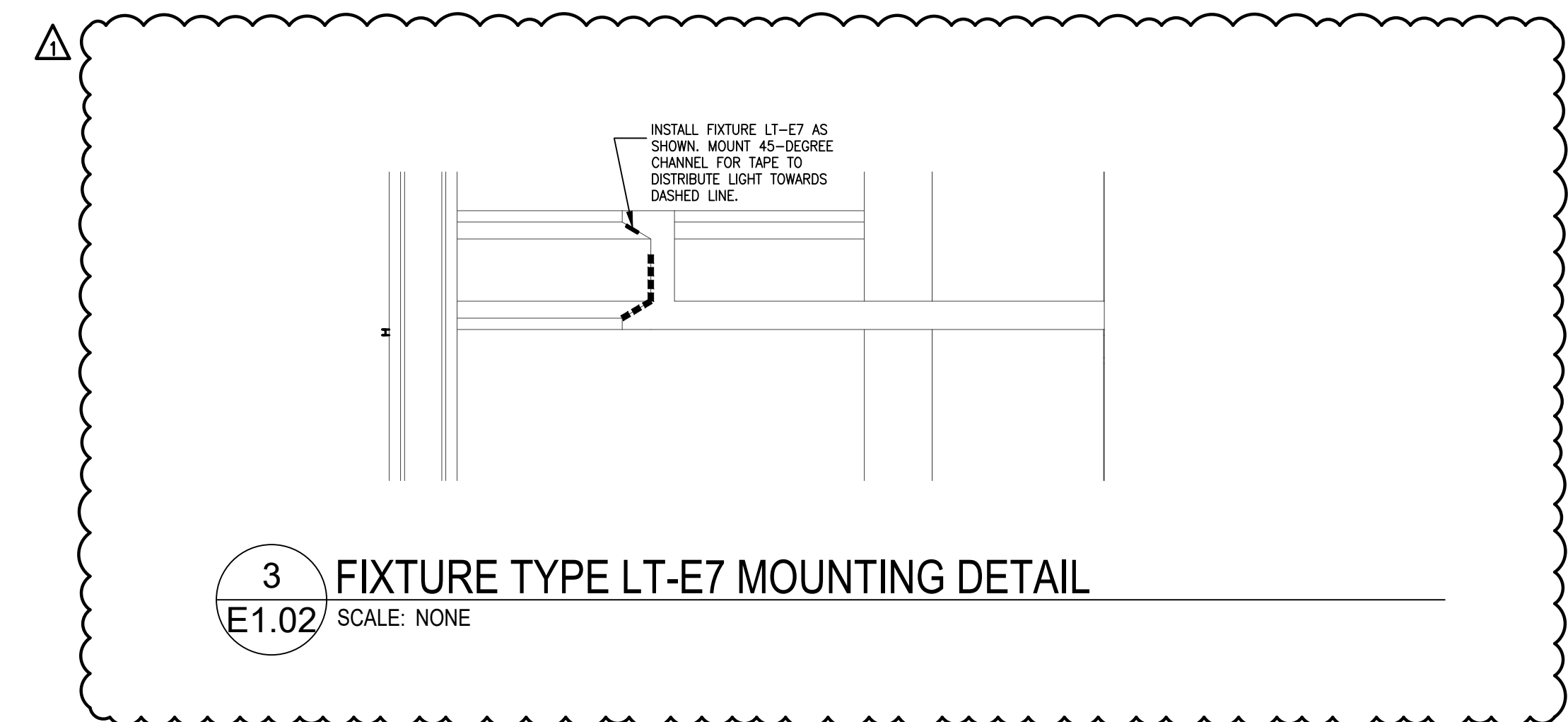


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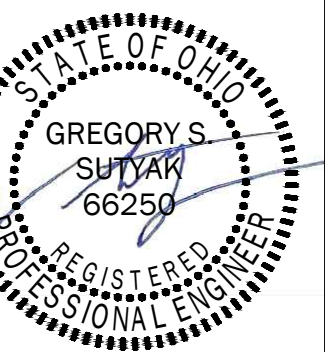
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3 FIXTURE TYPE LT-E7 MOUNTING DETAIL
E1.02 SCALE: NONE



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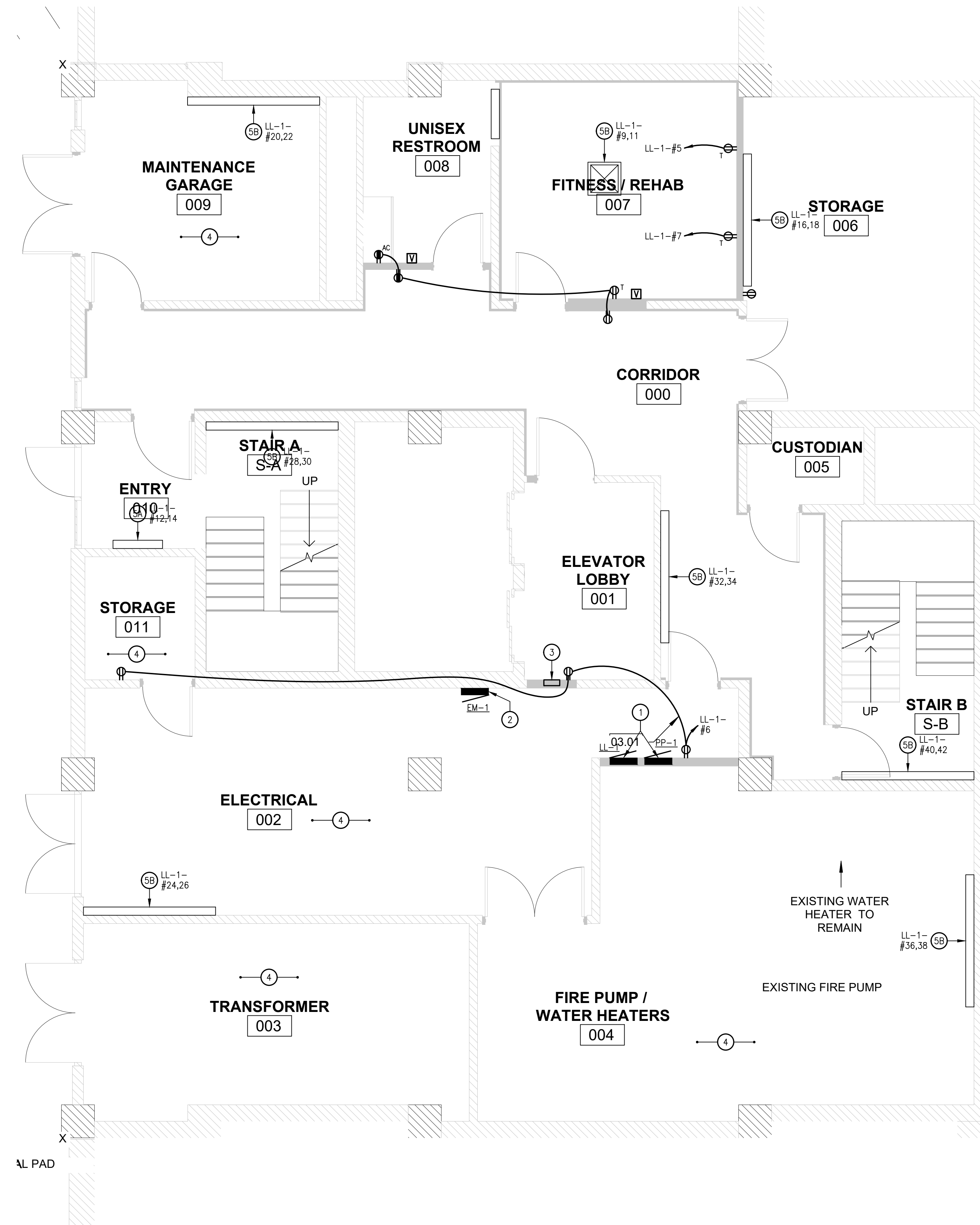
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2ND - 15TH FLOOR AND PENTHOUSE LIGHTING PLANS
E1.02

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CODED NOTES

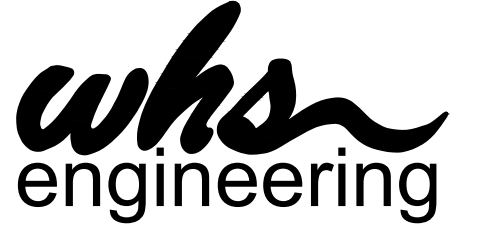
- NEW LOCATION OF CIRCUIT BREAKER PANELS REPLACING EXISTING PANELS OF THE SAME NAME IN A DEMOLISHED WALL ADJACENT TO THE CURRENT LOCATION. REWORK/EXTEND EXISTING FEEDER TO NEW LOCATION OF NEW PANEL. FOR PANEL PP-1, THERE ARE NO REVISED LOADS OR SCOPE OF WORK OTHERWISE. MATCH NEW CIRCUIT BREAKERS AND ALL RATINGS OF PANEL TO MATCH EXISTING.
- LOCATION OF A CIRCUIT BREAKER PANEL TO BE REPLACED WITH NEW, MATCHING EXISTING RATINGS UNLESS NOTED OTHERWISE ON PANEL SCHEDULES. RECONNECT EXISTING FEEDERS.
- LOCATION OF AREA OF RESCUE COMMUNICATION CALL BOX. REFER TO DIAGRAM ON DRAWING #E0.02.
- ALL EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT IN THIS ROOM/AREA, UNLESS SHOWN OTHERWISE, IS EXISTING TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED TO THE FIRE PUMP SERVICE, GENERATOR SERVICE, AND MAIN DISTRIBUTION SERVICE DISCONNECTS.
- BASEBOARD HEATING (0.650KW-208V-1Ø)**: PROVIDE A DIRECT CONNECTION. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE.
- BASEBOARD HEATING (2.018KW-208V-1Ø)**: PROVIDE A DIRECT CONNECTION. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE.
- INTERIOR CASSETTE MINI SPLIT UNIT (0.052KW-208V-1Ø)**: PROVIDE A DIRECT CONNECTION. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE.

1 LOWER LEVEL POWER & COMM. PLAN
E2.00 SCALE: 1/4" = 1'-0"

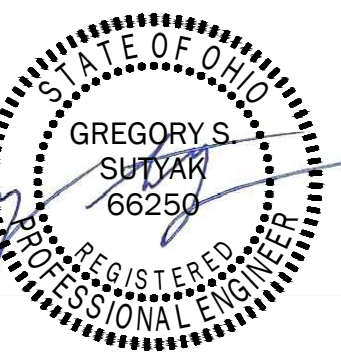


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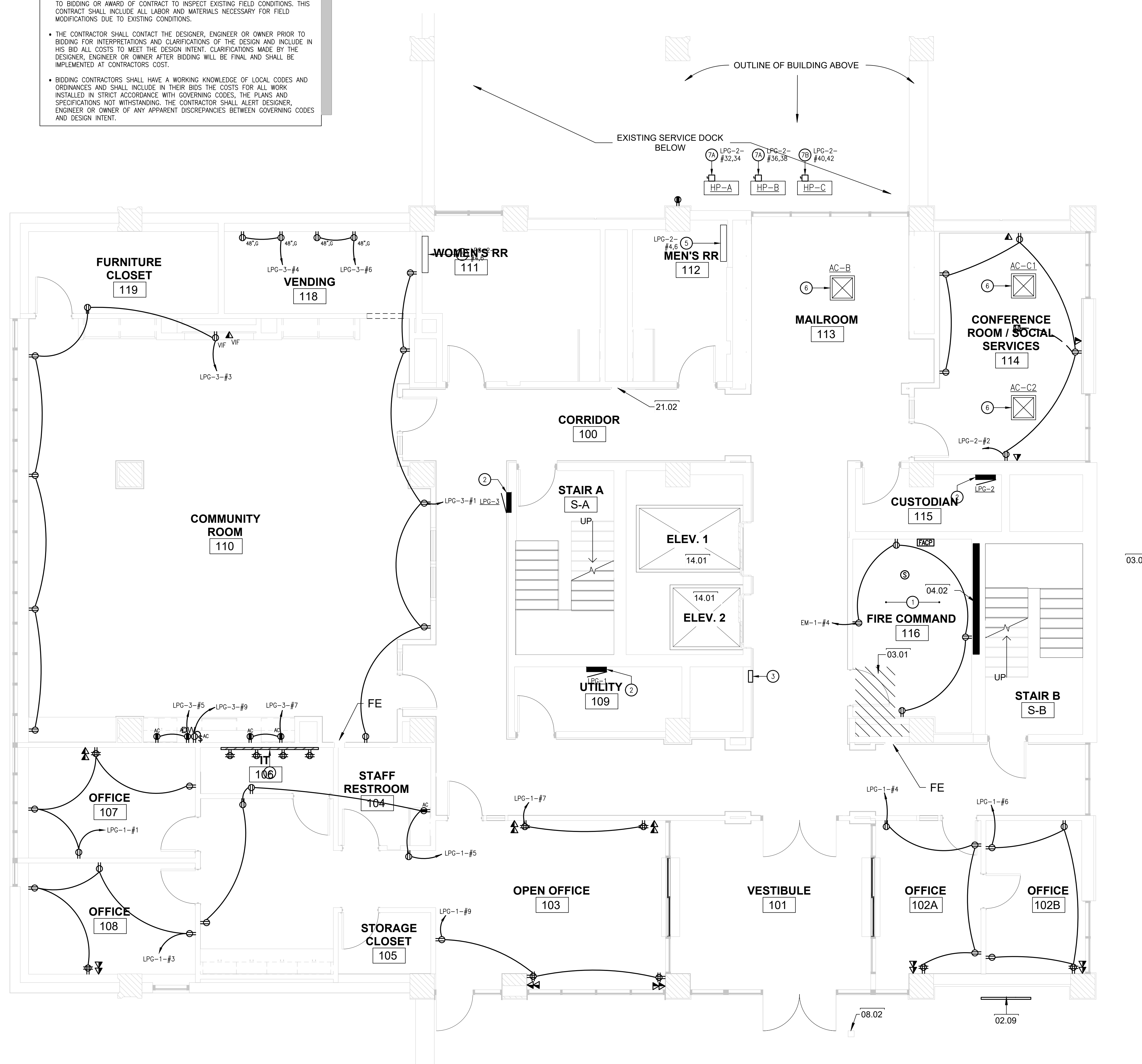
LDA Project No.23.47

LOWER LEVEL POWER & COMMUNICATION PLAN
E2.00

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FIELD VERIFY ALL CONDITIONS

- DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE DESIGNER, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE DESIGNER, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT DESIGNER, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

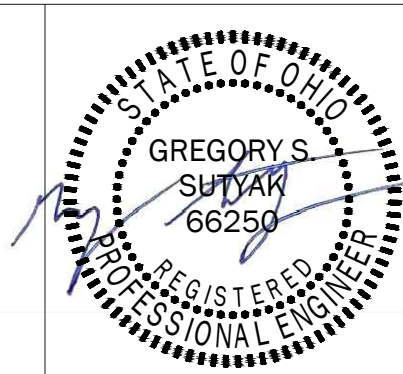


03.06

CODED NOTES

- LOCATION OF THE FIRE COMMAND CENTER. PROVIDING AND INSTALL ALL NECESSARY EQUIPMENT, DEVICES, ETC. TO ENSURE THE FIRE COMMAND CENTER IS IN FULL COMPLIANCE WITH SECTION 911.1 OF THE 2024 EDITION OF THE OHIO BUILDING CODE. RELOCATE THE EXISTING FIRE ALARM PANEL AND EXTEND ALL WIRING AS REQUIRED TO NEW ROOM. COORDINATE ALL NECESSARY PROVISIONS WITH ARCHITECT AND AHJ.
- LOCATION OF A CIRCUIT BREAKER PANEL TO BE REPLACED WITH NEW, MATCHING EXISTING RATINGS UNLESS NOTED OTHERWISE ON PANEL SCHEDULES. RECONNECT EXISTING FEEDERS. ENSURE NEW PANEL LPG-3 IS INSTALLED TO MAINTAIN FIRE RATINGS OF STAIRWELL.
- LOCATION OF AREA OF RESCUE COMMUNICATION BASE STATION. REFER TO DIAGRAM ON DRAWING #E0.02.
- PROVIDE A 8' x 4' x 3/4" THICK PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT FOR COMMUNICATION TERMINAL BOARD (TELEPHONE, TELEVISION, ETC.). INCLUDE ALL WORK REQUIRED BY RESPECTIVE UTILITIES. PROVIDE A COPPER GROUNDING BUS AND #6 AWG GROUNDING CONDUCTOR TO SERVICE GROUNDING POINT(S) (REFER TO DETAIL ON DRAWING #E0.02). INCLUDE (4) DOUBLE DUPLEX RECEPTACLES INSTALLED AT THIS TERMINAL BOARD SERVED FROM (4) 20A-120V-1Ø DEDICATED CIRCUITS. REFER TO COMMUNICATION RISER DIAGRAM ON DRAWING #E0.02 FOR ADDITIONAL INFORMATION.
- BASEBOARD HEATING (0.650KW-208V-1Ø)**: PROVIDE A DIRECT CONNECTION. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE.
- INTERIOR CASSETTE MINI SPLIT UNIT (0.052KW-208V-1Ø)**: PROVIDE A DIRECT CONNECTION. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE. ALL UNITS ON THE FIRST FLOOR SHALL BE CONNECTED TO THE SAME CIRCUIT BREAKER (PANEL LPG-2, CIRCUIT #39.41).
- EXTERIOR MINI SPLIT UNIT (2.475KW-208V-1Ø)**: PROVIDE A 30A-2P, 240V, NEMA 3R RATED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 15A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.
- EXTERIOR MINI SPLIT UNIT (3.307KW-208V-1Ø)**: PROVIDE A 30A-2P, 240V, NEMA 3R RATED DISCONNECT SWITCH AND MOUNT AT UNIT. WIRING SHALL BE 2#12, 1#12(G), 3/4" TO THE 20A-2P CIRCUIT BREAKER SHOWN ADJACENT TO PLAN NOTE. BRANCH TO FINAL CONNECTION VIA FLEXIBLE METALLIC CONDUIT.

1 FIRST FLOOR POWER & COMM. PLAN
E2.01 SCALE: 1/4" = 1'-0"



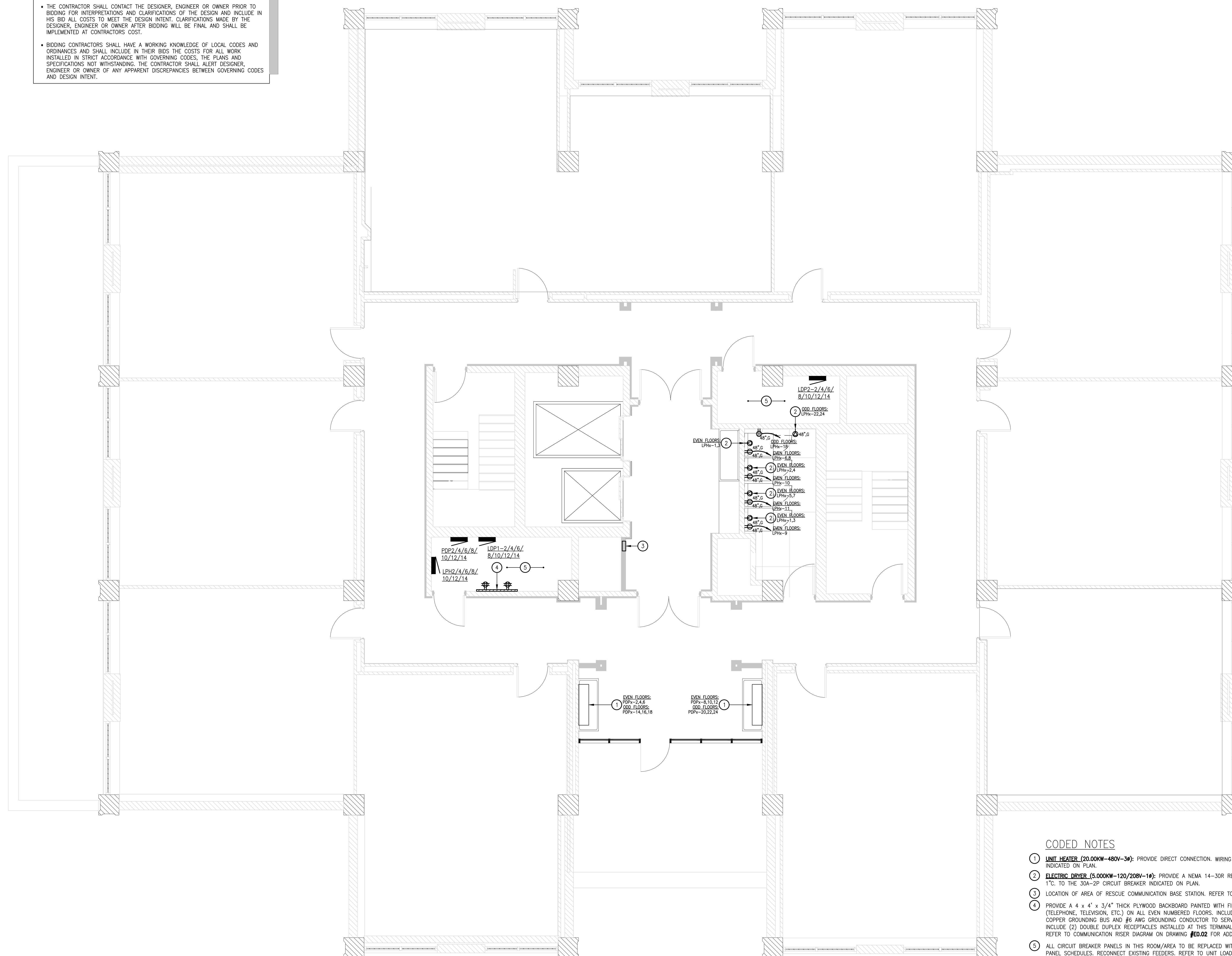
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FIELD VERIFY ALL CONDITIONS

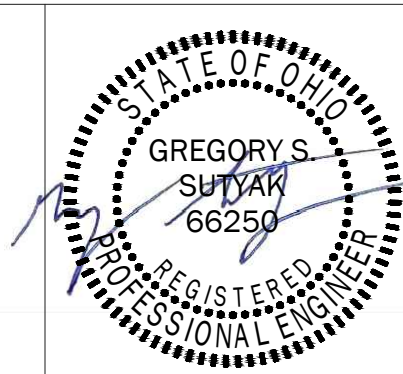
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CODED NOTES

- UNIT HEATER (20,000W-480V-3Ø):** PROVIDE DIRECT CONNECTION. WIRING SHALL BE 3Ø10, 1Ø10(G), 1°C. TO THE 30A-3P CIRCUIT BREAKER INDICATED ON PLAN.
- ELECTRIC DRYER (5,000KW-120/208V-1Ø):** PROVIDE A NEMA 14-30R RECEPTACLE MOUNTED AT 48" A.F.F. WIRING SHALL BE 3Ø10, 1Ø10(G), 1°C. TO THE 30A-2P CIRCUIT BREAKER INDICATED ON PLAN.
- LOCATION OF AREA OF RESCUE COMMUNICATION BASE STATION. REFER TO DIAGRAM ON DRAWING #E0.02.
- PROVIDE A 4 x 4' x 3/4" THICK PLYWOOD BACKBOARD PAINTED WITH FIRE RETARDANT PAINT FOR COMMUNICATION TERMINAL BOARD (TELEPHONE, TELEVISION, ETC.) ON ALL EVEN NUMBERED FLOORS. INCLUDE ALL WORK REQUIRED BY RESPECTIVE UTILITIES. PROVIDE A COPPER GROUNDING BUS AND #6 AWG GROUNDING CONDUCTOR TO SERVICE GROUNDING POINT(S) (REFER TO DETAIL ON DRAWING #E0.02). INCLUDE (2) DOUBLE DUPLEX RECEPTACLES INSTALLED AT THIS TERMINAL BOARD SERVED FROM (2) 20A-120V-1Ø DEDICATED CIRCUITS. REFER TO COMMUNICATION RISER DIAGRAM ON DRAWING #E0.02 FOR ADDITIONAL INFORMATION.
- ALL CIRCUIT BREAKER PANELS IN THIS ROOM/AREA TO BE REPLACED WITH NEW, MATCHING EXISTING RATINGS UNLESS NOTED OTHERWISE ON PANEL SCHEDULES. RECONNECT EXISTING FEEDERS. REFER TO UNIT LOAD CENTER RISER DIAGRAM ON SHEET #E0.03 FOR ADDITIONAL INFORMATION ON SCOPE OF WORK FOR LDPx PANELS.

1 TYPICAL 2ND THROUGH 15TH FLOOR POWER & COMM. PLAN
E2.02 SCALE: 1/4" = 1'-0"

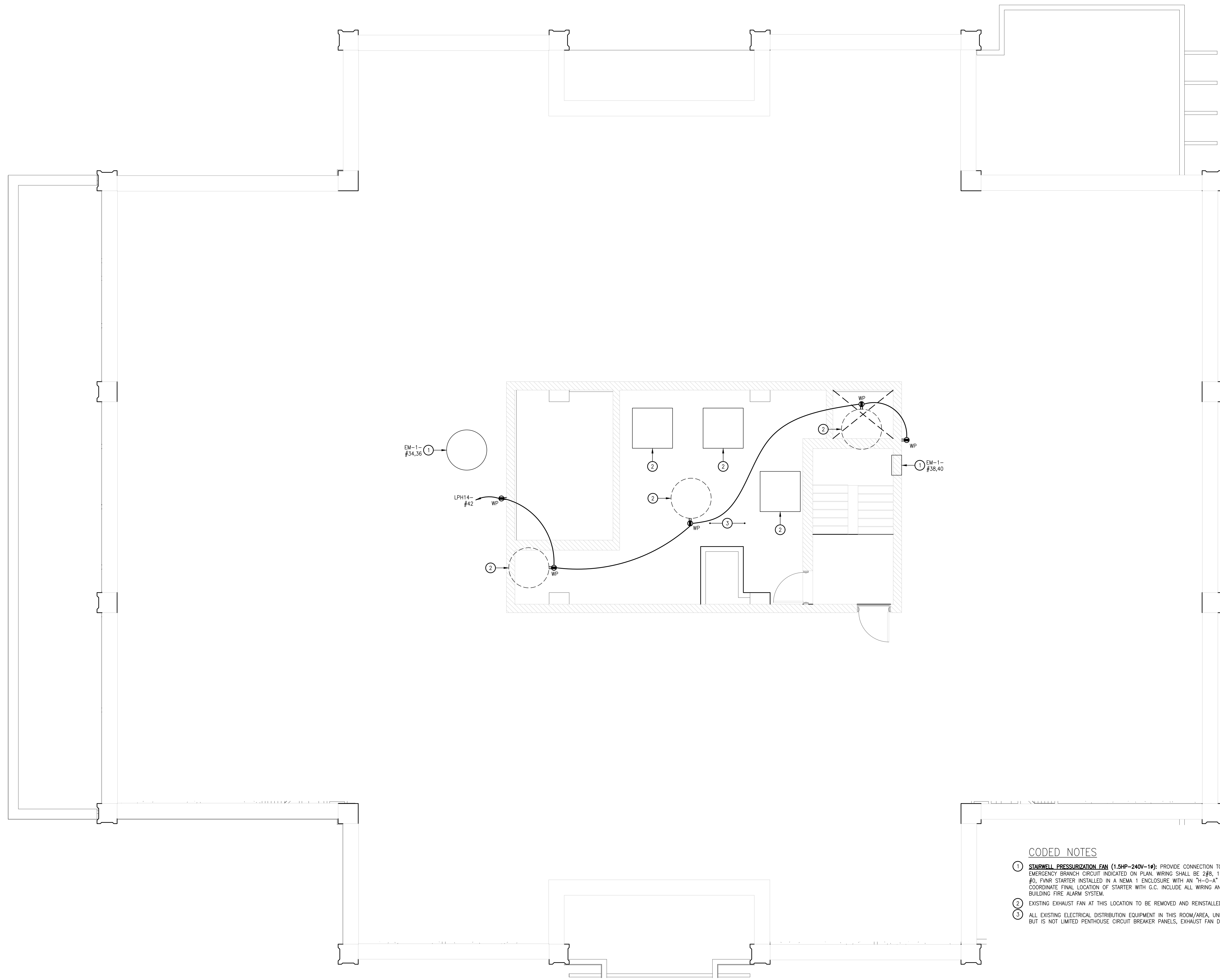


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2ND - 15TH FLOOR POWER & COMMUNICATION PLAN
E2.02

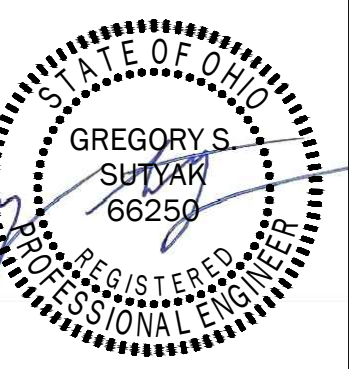
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CODED NOTES

- ① **STARWELL PRESSURIZATION FAN (1.5HP-240V-1P)**: PROVIDE CONNECTION TO DISCONNECT SWITCH PROVIDED WITH FAN, BY M.C. CONNECT TO EMERGENCY BRANCH CIRCUIT INDICATED ON PLAN. WIRING SHALL BE 2#8, 1#10(G), 1" C. TO ACCOUNT FOR VOLTAGE DROP. PROVIDE A SIZE #0, PVNR STARTER INSTALLED IN A NEMA 1 ENCLOSURE WITH AN "H-O-A" SWITCH AND TWO SETS OF "N-G/N-C" AUXILIARY CONTACTS. COORDINATE FINAL LOCATION OF STARTER WITH G.C. INCLUDE ALL WIRING AND OTHER COMPONENTS FOR INTERCONNECTION AND CONTROL TO BUILDING FIRE ALARM SYSTEM.
- ② EXISTING EXHAUST FAN AT THIS LOCATION TO BE REMOVED AND REINSTALLED WITH NEW, BY M.C. RECONNECT EXISTING BRACH CIRCUITING.
- ③ ALL EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT IN THIS ROOM/AREA, UNLESS SHOWN OTHERWISE, IS EXISTING TO REMAIN. THIS INCLUDES BUT IS NOT LIMITED PENTHOUSE CIRCUIT BREAKER PANELS, EXHAUST FAN DISCONNECTS, AND ELEVATOR EQUIPMENT.

1 PENTHOUSE AND ROOF LEVEL POWER & COMM. PLAN
E2.03 SCALE: 1/4" = 1'-0"

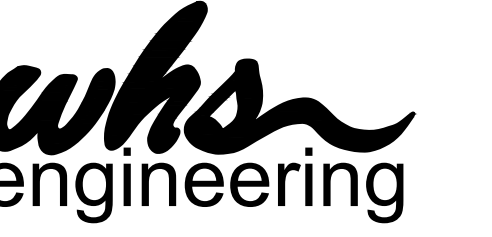


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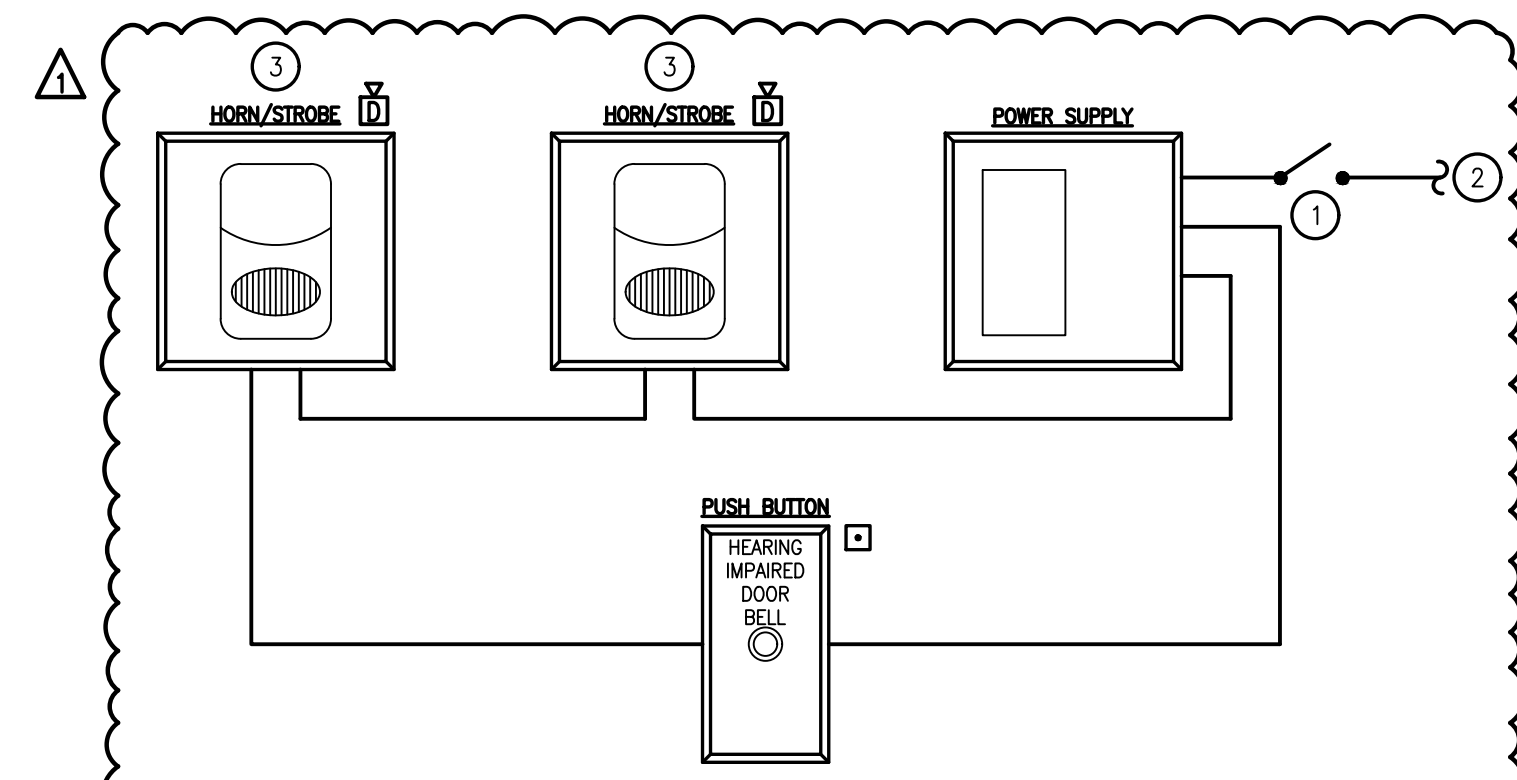
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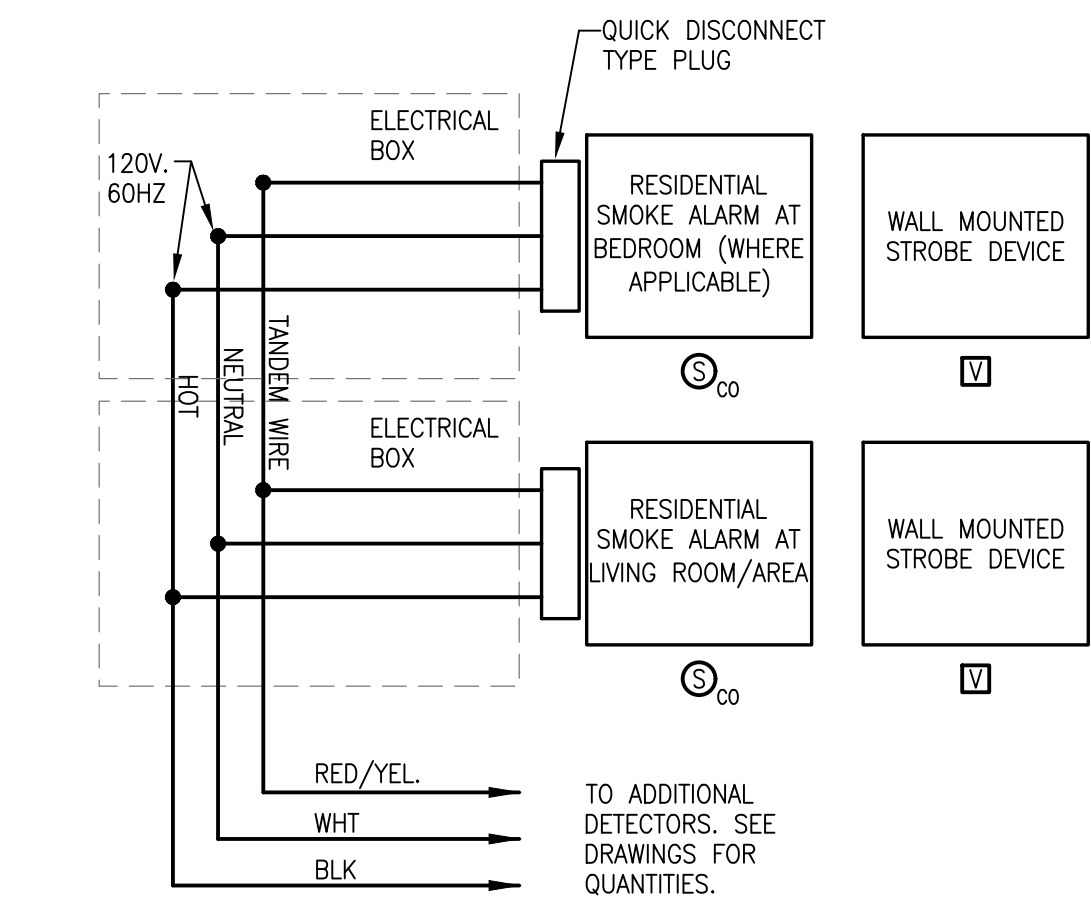
TYPICAL HEARING IMPAIRED DOORBELL RISER DIAGRAM
NO SCALE

TYPICAL HEARING IMPAIRED DOORBELL SYSTEM CODED NOTES:

1. PROVIDE A GENERAL OVERALL OVERRIDE SWITCH TO DISABLE THE DOORBELL. PROVIDE PHENOLIC LABEL STATING "DOORBELL OVERRIDE" OR SIMILAR LANGUAGE INSTALLED ON FACEPLATE PER OWNER'S DIRECTION.
2. CONNECT TO NEAREST 120V RECEPTACLES CIRCUIT FOR POWER SUPPLY POWER.
3. PROVIDE AND INSTALL A HORN-STROBE DEVICE IN ALL SLEEPING AREAS AS WELL AS EACH BATHROOM.

TYPICAL HEARING IMPAIRED DOORBELL SYSTEM GENERAL NOTES:

- A. ALL WIRING SHALL BE #16 AWG MINIMUM. PROVIDE ALL WIRING REQUIRED FOR COMPLETE INSTALLATION IN ACCORDANCE WITH MANUFACTURER AND MANUFACTURER'S WIRING DIAGRAM.
- B. ALL EQUIPMENT IS BASED ON PRODUCTS/KITS MANUFACTURED BY GLOBAL FIRE CONTROL, INC. CATALOG NUMBER IS #GF-ADA-ADB-KIT WITH INTEGRAL ENCLOSURE. INCLUDE SURFACE ENCLOSURES WHERE REQUIRED (#G5B-W).
- C. THIS DETAIL APPLIES TO ALL "HEARING IMPAIRED" DWELLING UNITS. REFER TO ARCHITECTURAL PLANS FOR ALL LOCATIONS AND QUANTITY OF THESE UNITS.



TYPICAL HEARING-IMPAIRED APARTMENT UNIT SMOKE ALARM WIRING DIAGRAM
NO SCALE

TYPICAL APARTMENT SMOKE ALARM WIRING DIAGRAM NOTES:

1. PROVIDE ALL WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WIRING DIAGRAM AND ALL STATE AND LOCAL CODES. WIRE STROBE DEVICES SUCH THAT TANDEM DEVICES WILL INITIATE THE RELAYS OF THE "NON-ALARMING" DEVICES.
2. ALL ALARMS IN A TANDEM INSTALLATION MUST BE CONTROLLED BY THE SAME CIRCUIT BREAKER.
3. THE CIRCUIT BREAKER PROVIDING 120 VOLT POWER SHALL BE AFCI TYPE.
4. ALL SMOKE ALARM(S) SHALL BE GENTEX #S1209.
5. STROBE DEVICES SHALL BE 120 VOLT, GENTEX #GXS-120177WW.
6. ALL APARTMENTS SHALL BE PROVIDED WITH THE CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION.
7. COMBINATION SMOKE AND CARBON MONOXIDE ("CO") ALARM SHALL BE GENTEX #GN-503F.

GENERAL "DWELLING UNIT" ELECTRICAL CONSTRUCTION NOTES

- A. EQUIPMENT AND MATERIALS USED ON THIS PROJECT SHALL BE NEW AND U.L. LABELED FOR THE APPLICATION.
- B. WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF LOCAL AND STATE CODES AS WELL AS THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS INTERPRETED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- C. MATERIAL OR LABOR WHICH IS NOT INDICATED ON THE DRAWINGS OR SPECIFICATION BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK SHALL BE PROVIDED. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER.
- D. VISIT THE SITE OF THE WORK AND BECOME FAMILIAR WITH CONDITIONS AFFECTING THE INSTALLATION. SUBMISSION OF A PROPOSAL SHALL PRESUPPOSE KNOWLEDGE OF SUCH CONDITIONS AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED WHERE EXTRA LABOR OR MATERIALS ARE REQUIRED BECAUSE OF IGNORANCE OF THESE CONDITIONS.
- E. WHERE LIGHT SWITCHES ARE SHOWN ADJACENT TO ONE ANOTHER, THEY SHALL BE GROUPED TOGETHER INTO A 2, 3, OR 4 GANG DEVICE BOX WITH COMMON COVERPLATE.
- F. BACK BOXES IN DEMISING WALLS SHALL NOT BE ROUGHED-IN BACK TO BACK IN THE SAME STUD SPACE. PROVIDE FIRE-STOPPING AS REQUIRED TO MAINTAIN FIRE RATING.
- G. ELECTRICAL BOXES, ELECTRICAL EQUIPMENT, ETC. MUST BE FIRESTOPPED UNDER THE FOLLOWING CONDITIONS: BOXES LARGER THAN 16 SQUARE INCHES, IF HORIZONTAL SPACING BETWEEN BOXES IS LESS THAN 24 INCHES. WHEN MULTIPLE BOXES ARE LOCATED IN ONE STUD CAVITY OR IF THE AGGREGATE OF ALL BOXES EXCEEDS 100 SQUARE INCHES PER 100 SQUARE FEET. REFER TO LISTED SYSTEM DETAILS AND APPLICABLE LOCAL BUILDING CODE REQUIREMENTS.
- H. WHERE ELECTRICAL EQUIPMENT, OUTLET BOXES, ETC. ARE INSTALLED IN A FIRE RATED ASSEMBLY AND AS REQUIRED UNDER THE PARAMETERS LISTED ABOVE, FIRE (PUTTY) PADS SHALL BE PROVIDED TO MAINTAIN THE INTEGRITY OF THE FIRE RATED ASSEMBLY.
- I. WHEN ELECTRICAL EQUIPMENT, OUTLET BOXES, ETC. ARE INSTALLED IN A STUD PARTITION WHERE ADJACENT ROOMS ARE SIMILAR, THE OUTLETS SHALL BE STAGGERED AND FIRE RATED (PUTTY) PADS SHALL ALSO BE INSTALLED.
- J. FIRE RATED (PUTTY) PADS SHALL BE 3M "FIRE BARRIER MOLDABLE PUTTY PADS MPP+", FIRE RATED PRODUCTS SPECIALTIES CORPORATION TYPE "FRPS" ENCLOSURES, OR APPROVED EQUAL PRIOR TO PLACING BASE BID PRICE.
- K. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE RATING OF ALL CEILING, STRUCTURES, ETC. IN COMPLIANCE WITH ALL STANDARDS. WHERE BACK BOXES ARE REQUIRED TO BE INSTALLED TO SERVE LIGHT FIXTURES IN FIRE RATED CEILING, FIRE (PUTTY) PADS SHALL BE PROVIDED.
- L. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING LOCATION AND HEIGHT OF ALL WIRING DEVICES.
- M. COORDINATE THE EXACT LOCATION OF ALL RECEPTACLES AT CABINET LOCATIONS WITH G.C. CUT AND PATCH AS DIRECTED BY THE G.C.
- N. ALL DEVICES SHALL BE RESIDENTIAL GRADE, 15/20 AMP DEVICES. RECEPTACLES SHALL BE TAMPER RESISTANT TYPE IN COMPLIANCE WITH N.E.C. #406.12.
- O. SMOKE ALARMS MUST BE INSTALLED FREE OF DUST OR ANY OTHER CONTAMINATION. LOCATE A MINIMUM OF 3'-0" FROM ALL SUPPLY AIR DIFFUSERS.
- P. IN ALL SINGLE, OR, MULTI-FAMILY DWELLING UNITS, RECEPTACLES SHALL BE LOCATED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE N.E.C. ELECTRICAL EQUIPMENT, DEVICES, ETC. SHALL BE INSTALLED AND SPACED AS DIRECTED BY THE N.E.C. WITH SPECIFIC ATTENTION TO ARTICLE #210.52(A) THROUGH #210.52(I).
- Q. MULTI STATION SMOKE DETECTORS SHALL BE PROVIDED WITH TWO SOURCES OF POWER (120 VOLT AND BATTERY BACK-UP) IN ACCORDANCE WITH N.F.P.A. REQUIREMENTS.
- R. ALL PENETRATIONS IN FIRE RATED FLOORS, SHAFTS AND WALLS SHALL BE FIRE STOPPED. THE INSTALLATION OF FIRE STOPPING MATERIALS SHALL CONFORM TO THE LATEST FIRE RESISTANCE DIRECTORY AS PUBLISHED BY U.L.
- U. ALL RECEPTACLES SERVING KITCHEN COUNTER TOP SURFACES SHALL BE G.F.C.I. PROTECTED IN ACCORDANCE WITH N.E.C. ARTICLE #210.8(A)(6).
- V. ALL RECEPTACLES SHALL LOCATED WITHIN 6'-0" OF THE OUTSIDE OF ALL SINKS, SHOWER STALLS, AND, BATH TUBS SHALL BE G.F.C.I. PROTECTED IN ACCORDANCE WITH N.E.C. ARTICLE #210.8(A)(7).
- W. WHERE G.F.C.I. DEVICES ARE INSTALLED TO SERVE LARGE APPLIANCES, OR, APPLIANCES BELOW COUNTERTOP SURFACES, THE G.F.C.I. DEVICE SHALL BE READILY ACCESSIBLE AS REQUIRED BY N.E.C. ARTICLE #422.5 AND AS DEFINED BY N.E.C. ARTICLE #100. PROVIDE G.F.C.I. TYPE CIRCUIT BREAKERS WHERE APPLICABLE. PROVIDE PROPER IDENTIFICATION AT RELATED DEVICE LOCATIONS INDICATING "G.F.C.I. PROTECTED".
- X. PROVIDE ARC-FAULT PROTECTION FOR APPLICABLE BRANCH CIRCUITS IN ACCORDANCE WITH N.E.C. ARTICLE #210.12(A).

| TYPICAL UNIT 1A AND 1B ELECTRIC SERVICE CALCULATION | | | | | |
|---|------|------|----------|-----------------|--------------|
| DESCRIPTION | AREA | LOAD | TOTAL WC | N.E.C. ARTICLE | |
| RECEPTACLES/LIGHTING | - | 750 | 3 | 2250 | 220.82(B)(1) |
| SMALL APPLIANCE CIRCUITS (2 X 1500) | - | 3000 | 3000 | 220.82(B)(2) | |
| REFRIGERATOR | - | 600 | 600 | 220.82(B)(3) | |
| ELECTRIC RANGE/OVEN | - | 8000 | 8000 | 220.82(B)(3) | |
| RANGE HOOD/MICROWAVE | - | 1680 | 1680 | 220.82(B)(3) | |
| TOTAL CONNECTED GENERAL LOAD | - | - | - | 15530 | - |
| 100% OF FIRST 10KW + 40% OF REMAINING | - | - | - | 12212 | 220.82(B) |
| PTAC UNIT | - | 1123 | 1123 | - | - |
| BASEBOARD HEATING | - | 5492 | 5492 | - | - |
| TOTAL CONNECTED HVAC LOAD | - | - | - | 6615 | - |
| 65% OF SPACE HEATING | - | - | - | 3570 | 220.82(C)(4) |
| TOTAL DEMAND LOAD | - | - | - | 15,782 W | - |
| AMPS AT 120V/208V-1Ø-3W | - | - | - | 75.9 A | - |

| TYPICAL UNIT 1C ELECTRIC SERVICE CALCULATION | | | | | |
|--|------|------|----------|-----------------|--------------|
| DESCRIPTION | AREA | LOAD | TOTAL WC | N.E.C. ARTICLE | |
| RECEPTACLES/LIGHTING | - | 900 | 3 | 2700 | 220.82(B)(1) |
| SMALL APPLIANCE CIRCUITS (2 X 1500) | - | 3000 | 3000 | 220.82(B)(2) | |
| REFRIGERATOR | - | 600 | 600 | 220.82(B)(3) | |
| ELECTRIC RANGE/OVEN | - | 8000 | 8000 | 220.82(B)(3) | |
| RANGE HOOD/MICROWAVE | - | 1680 | 1680 | 220.82(B)(3) | |
| TOTAL CONNECTED GENERAL LOAD | - | - | - | 15980 | - |
| 100% OF FIRST 10KW + 40% OF REMAINING | - | - | - | 12392 | 220.82(B) |
| PTAC UNIT | - | 2246 | 2246 | - | - |
| BASEBOARD HEATING | - | 9546 | 9546 | - | - |
| TOTAL CONNECTED HVAC LOAD | - | - | - | 11792 | - |
| 65% OF SPACE HEATING | - | - | - | 6205 | 220.82(C)(4) |
| TOTAL DEMAND LOAD | - | - | - | 18,597 W | - |
| AMPS AT 120V/208V-1Ø-3W | - | - | - | 89.4 A | - |

| TYPICAL DWELLING UNIT PANEL SCHEDULE | | | | | | |
|--------------------------------------|---------------------------|------|------------------------|------|--------------------------|-------|
| NAME: TPA/B | | | VOLTAGE: 120/208-1Ø-3W | | | |
| MINIMUM KAIC: 10 | | | TYPE: FLUSH MOUNTED | | | |
| MCB: 100A MLO | | | KW: SEE ADJACENT CALC. | | | |
| CKT | DESCRIPTION | C/B | B | C/B | DESCRIPTION | CKT |
| A/G 1 | SMALL APPLIANCE REC. | 20/1 | A | 15/1 | REFRIGERATOR | 2 A/K |
| A/G 3 | SMALL APPLIANCE REC. | 20/1 | B | | ELECTRIC RANGE | 4 G |
| A 5 | LIVING REC. | 15/1 | A | 50/2 | | 6 |
| G 7 | BATHROOM REC. | 20/1 | B | 20/1 | RANGE HOOD/MICRO. | 8 A/K |
| A 9 | LIGHTING/S.D. | 15/1 | A | | - SURGE PROTECTION | 10 |
| A 11 | BEDROOM REC. | 15/1 | B | | | 12 |
| 13 | BATHROOM BASEBOARD | 15/1 | A | | | 14 |
| 15 | SPACE | - | B | 15/2 | THRU-WALL AC | 16 |
| 17 | BEDROOM BASEBOARD HEATING | 15/2 | A | | | 18 |
| 19 | HEATING | B | 15/2 | | LIVING BASEBOARD HEATING | 20 |

- TYPICAL DWELLING UNIT PANEL SCHEDULE NOTES:**
- A. PROVIDE AN ARC-FAULT CIRCUIT INTERRUPTER (AFCI) TYPE CIRCUIT BREAKER FOR THIS BRANCH CIRCUIT.
 - B. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR THIS BRANCH CIRCUIT. PROVIDE A GFCI-TYPE CIRCUIT BREAKER IF GFCI-TYPE RECEPTACLES/DEVICES ARE NOT PROVIDED DOWNSTREAM ON THIS BRANCH CIRCUIT.
 - C. THIS CIRCUIT BREAKER SHALL BE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE IF THE INSTALLED RECEPTACLE IS LOCATED WITHIN 6'-0" OF THE KITCHEN SINK.

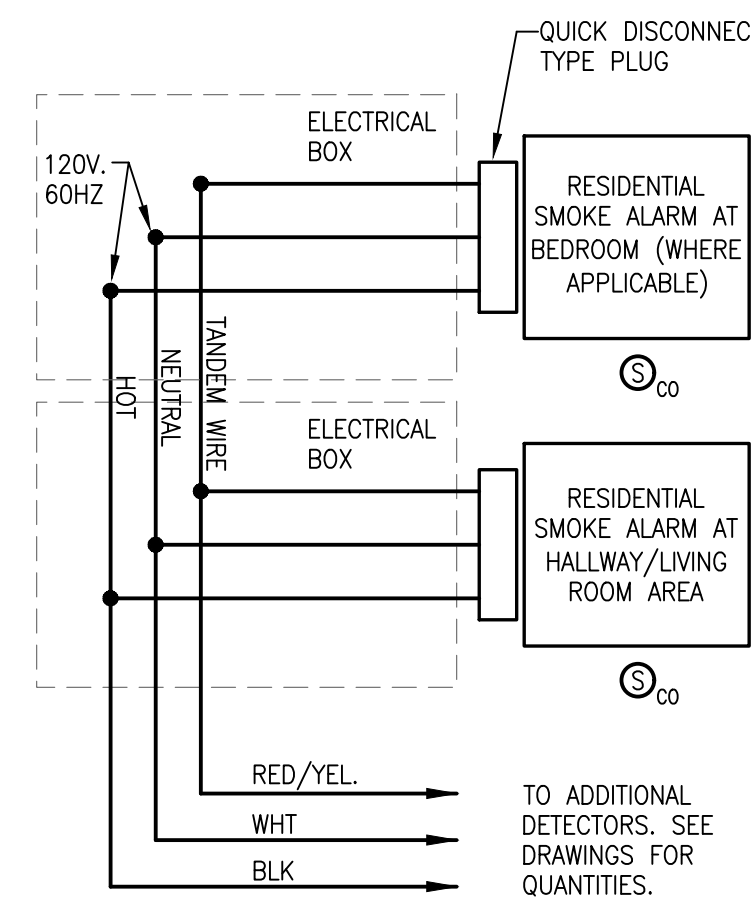
| TYPICAL DWELLING UNIT PANEL SCHEDULE | | | | | | |
|--------------------------------------|---------------------------|------|------------------------|------|--------------------------|-------|
| NAME: TPC | | | VOLTAGE: 120/208-1Ø-3W | | | |
| MINIMUM KAIC: 10 | | | TYPE: FLUSH MOUNTED | | | |
| MCB: 100A MLO | | | KW: SEE ADJACENT CALC. | | | |
| CKT | DESCRIPTION | C/B | B | C/B | DESCRIPTION | CKT |
| A/G 1 | SMALL APPLIANCE REC. | 20/1 | A | 15/1 | REFRIGERATOR | 2 A/K |
| A/G 3 | SMALL APPLIANCE REC. | 20/1 | B | 50/2 | ELECTRIC RANGE | 4 G |
| A 5 | LIVING REC. | 15/1 | A | | | 6 |
| G 7 | BATHROOM REC. | 20/1 | B | 20/1 | RANGE HOOD/MICRO. | 8 A/K |
| A 9 | LIGHTING/S.D. | 15/1 | A | | | 10 |
| A 11 | BEDROOM REC. | 15/1 | B | 15/2 | THRU-WALL AC | 12 |
| 13 | BATHROOM BASEBOARD | 15/1 | A | | | 14 |
| 15 | SPACE | - | B | 15/2 | THRU-WALL AC | 16 |
| 17 | BEDROOM BASEBOARD HEATING | 15/2 | A | | | 18 |
| 19 | HEATING | B | 15/2 | | LIVING BASEBOARD HEATING | 20 |
| 21 | BEDROOM BASEBOARD HEATING | 15/2 | A | | | 22 |
| 23 | HEATING | B | 15/2 | | LIVING BASEBOARD HEATING | 24 |
| 25 | SPACE | - | A | | - SURGE PROTECTION | 26 |
| 27 | SPACE | - | B | | | 28 |
| 29 | SPACE | - | A | | - SPACE | 30 |

- TYPICAL DWELLING UNIT PANEL SCHEDULE NOTES:**
- A. PROVIDE AN ARC-FAULT CIRCUIT INTERRUPTER (AFCI) TYPE CIRCUIT BREAKER FOR THIS BRANCH CIRCUIT.
 - B. PROVIDE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR THIS BRANCH CIRCUIT. PROVIDE A GFCI-TYPE CIRCUIT BREAKER IF GFCI-TYPE RECEPTACLES/DEVICES ARE NOT PROVIDED DOWNSTREAM ON THIS BRANCH CIRCUIT.
 - C. THIS CIRCUIT BREAKER SHALL BE GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) TYPE IF THE INSTALLED RECEPTACLE IS LOCATED WITHIN 6'-0" OF THE KITCHEN SINK.

| DWELLING UNIT LUMINAIRE SCHEDULE | | | | | | |
|----------------------------------|------------------|---------|---------|--|-------------------------------------|---|
| TYPE | LAMP | WATTAGE | VOLTAGE | DESCRIPTION | CATALOG NUMBER | REMARKS |
| LT-A | LED 3000K 1000L | 15 | 120 | 11" SURFACE MOUNT PUCK LIGHT WITH WHITE FINISH. | LUMINEDIA #LL43501-11-WH-30K | ENERGY-STAR LISTED, DIMMABLE. |
| LT-B | LED 3000K 1050V | 11 | 120 | 7" SURFACE MOUNT PUCK LIGHT - WET RATED WITH WHITE FINISH. | LUMINEDIA #LL62-1710-7R-LED-SMCT-WH | CENTER ON SHOWER/TUB; ENERGY-STAR LISTED, DIMMABLE. |
| LT-C | LED 30K-40K 700L | 9 | 120 | 10" ISLAND PENDANT WITH WHITE FINISH AND SELECTABLE CCT. | CDS LIGHTING #PEARL-H-10-30CCT-USV | SELECT CCT OUTPUT DESIRED BY OWNER/ARCHITECT PRIOR TO INSTALLATION. |
| LT-D | LED 3000K 2400L | 31 | 120 | 24" VANITY WALL SCIENCE WITH CHROME FINISH. | KUZCO #LATITUDE VL47225-ØH | CENTER ON VANITY & MIRROR; ENERGY-STAR, DIMMABLE. |
| LT-F | LED 3000K | - | 120 | TAPE LIGHTING OVER SINK | KLUS # | ENERGY-STAR LISTED, DIMMABLE. |

LUMINAIRE SCHEDULE GENERAL NOTES:

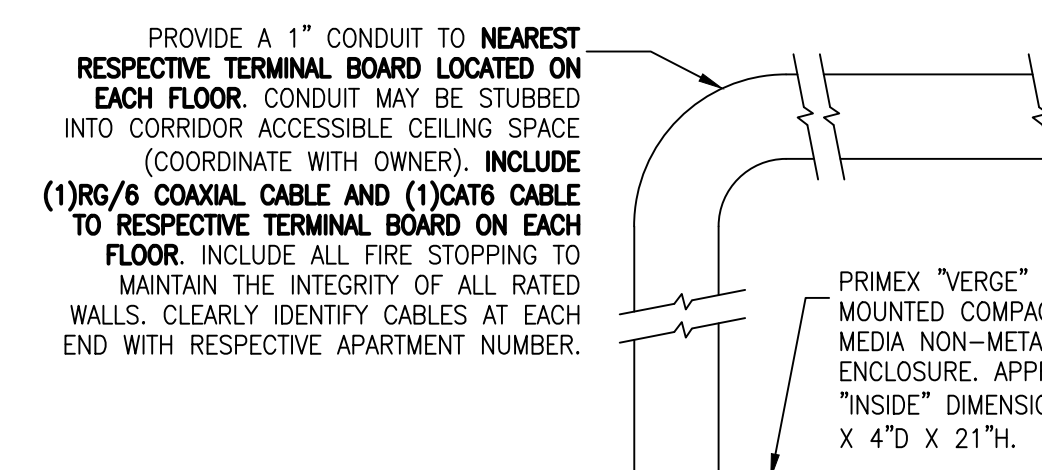
1. VERIFY ALL LUMINAIRE COLORS, TRIMS, LENGTHS, ETC. WITH THE ARCHITECT/OWNER PRIOR TO PLACING FINAL PURCHASE ORDERS. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED AS HAVING BEEN COORDINATED WITH THE ABOVE-MENTIONED PARTIES.
2. PROVIDE ALL LENGTHS, FEEDS, ACCESSORIES, CONNECTORS, WIRING, POWER SUPPLIES, DRIVERS, ETC. FOR A COMPLETE INSTALLATION. VERIFY THE COMPLETE BILL OF MATERIAL WITH MANUFACTURER'S REPRESENTATIVE AND ENSURE ALL EQUIPMENT IS INCLUDED IN BID PRICE. COORDINATE INSTALLATION WITH ARCHITECTURAL DETAILS.
3. VERIFY FINAL LUMINAIRE LOCATIONS WITH OTHER CEILING MOUNTED EQUIPMENT SUCH AS DIFFUSERS, FIRE ALARM DEVICES, SPEAKERS, ETC., WITH ARCHITECTURAL REFLECTED CEILING PLANS.
4. VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF ALL WALL MOUNTED AND PENDANT MOUNTED LUMINAIRES WITH ARCHITECTURAL PLANS AND ELEVATIONS PRIOR TO ROUGH-IN.
5. ANY PROPOSED ALTERNATE LUMINAIRES SHALL BE APPROVED BY THE ARCHITECT/OWNER PRIOR TO FINAL BID PRICING.
6. SHOULD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS, EQUIPMENT, AND DEVICES, OTHER THAN THOSE SPECIFIED AND LISTED, THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR SUBSTITUTIONS, TO THE ENGINEER AT LEAST TEN (10) BUSINESS DAYS PRIOR TO BID OPENING. THE REQUEST SHALL BE AN ALTERNATE TO THE ORIGINAL BID AND SHALL INCLUDE A COMPLETE SPECIFICATIONS CUT SHEET SUBMITTAL AS OUTLINED IN THE SPECIFICATIONS, COMPLETE WITH DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) AND TECHNICAL DATA FOR ALL ITEMS. INDICATE ANY ADDITIONS OR DEDUCTIONS TO THE CONTRACT PRICE WITH THE SUBSTITUTION SUBMITTAL AND ON THE BID FORM.
7. ANY FINAL SELECTED/INSTALLED LIGHT FIXTURES WITHOUT A SPECIFICATION (OR TO BE SPECIFIED LATER BY ARCHITECT/OWNER) LISTED IN THIS SCHEDULE SHALL NOT EXCEED THE WATTAGE LISTED, SHALL NOT HAVE A LOWERED DELIVERED LUMENS (F LISTED), AND SHALL MATCH THE COLOR TEMPERATURE (F LISTED).



TYPICAL APARTMENT UNIT SMOKE ALARM WIRING DIAGRAM
NO SCALE

TYPICAL APARTMENT SMOKE DETECTOR WIRING DIAGRAM NOTES:

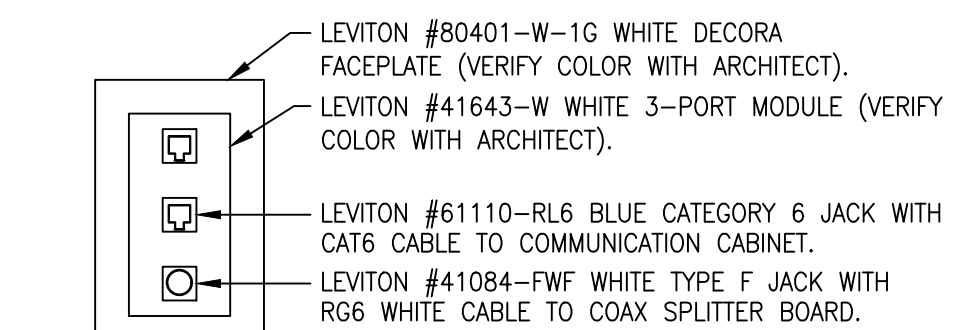
1. PROVIDE ALL WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WIRING DIAGRAM AND ALL STATE AND LOCAL CODES. WIRE STROBE DEVICES SUCH THAT TANDEM DEVICES WILL INITIATE THE RELAYS OF THE "NON-ALARMING" DEVICES.
2. ALL ALARMS IN A TANDEM INSTALLATION MUST BE CONTROLLED BY THE SAME CIRCUIT BREAKER.
3. THE CIRCUIT BREAKER PROVIDING 120 VOLT POWER SHALL BE AFCI TYPE.
4. ALL SMOKE ALARM(S) SHALL BE GENTEX #S1209.
5. STROBE DEVICES SHALL BE 120 VOLT, GENTEX #GXS-120177WW.
6. ALL APARTMENTS SHALL BE PROVIDED WITH THE CAPABILITY TO SUPPORT VISIBLE ALARM NOTIFICATION.
7. COMBINATION SMOKE AND CARBON MONOXIDE ("CO") ALARM SHALL BE GENTEX #GN-503F.



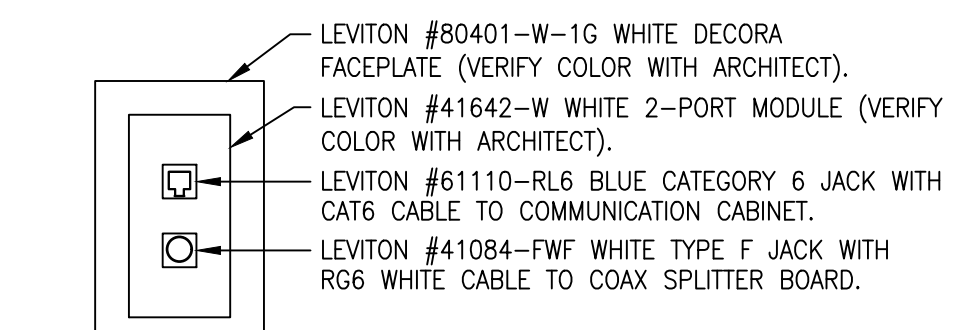
TYPICAL UNIT COMMUNICATION CABINET DETAIL
(TOTAL OF ONE LOCATION PER UNIT) NO SCALE



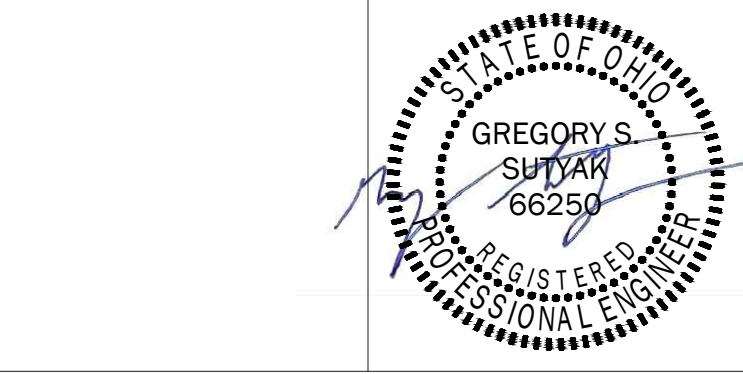
- PROVIDE A 1" CONDUIT TO NEAREST RESPECTIVE TERMINAL BOARD LOCATED ON EACH FLOOR. CONDUIT MAY BE STUBBED INTO CORRIDOR ACCESSIBLE CEILING SPACE (COORDINATE WITH OWNER). INCLUDE (1)RG/6 COAXIAL CABLE AND (1)CAT6 CABLE TO RESPECTIVE TERMINAL BOARD ON EACH FLOOR. INCLUDE ALL FIRE STOPPING TO MAINTAIN THE INTEGRITY OF ALL RATED WALLS. CLEARLY IDENTIFY CABLES AT EACH END WITH RESPECTIVE APARTMENT NUMBER.
- PRIMEK "VERGE" #P2100 FLUSH MOUNTED COMPACT STRUCTURED MEDIA NON-METALLIC ENCLOSURE. APPROXIMATE "INSIDE" DIMENSIONS ARE 14"W X 4"D X 21"H.
- PROVIDE AN 8-WAY, 10GHZ PASSIVE VIDEO SPLITTER
- PRIMEK #125-1035 8-PORT, CATEGORY 6 DATA/VOICE MODULE TERMINATION BOARD. PROVIDE CORRECT QUANTITY FOR TERMINATION OF ALL APARTMENT CABLES.
- PRIMEK #125-1355 ELECTRICAL INSTALLATION KIT WITH DUPLEX RECEPTACLE, SINGLE GANG BOX, CONNECTOR AND FACEPLATE. CONNECT TO LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT FOR SERVICE TO DEVICE/CABINET.



TYPICAL UNIT LIVING ROOM DATA FACEPLATE DETAIL
(PROVIDE AT ALL LIVING ROOM LOCATIONS) NO SCALE



TYPICAL UNIT BEDROOM DATA FACEPLATE DETAIL
(PROVIDE AT ALL BEDROOM LOCATIONS) NO SCALE



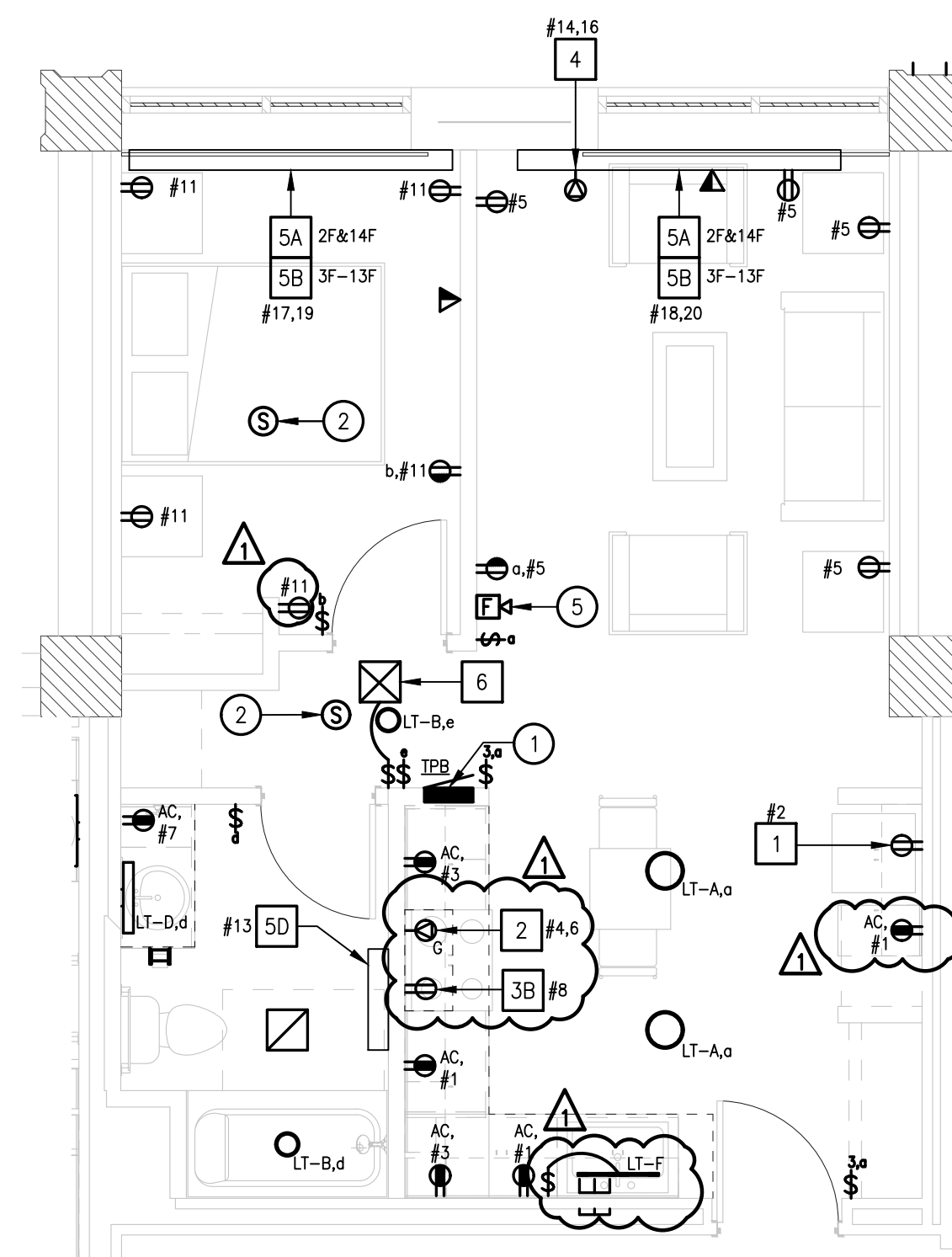
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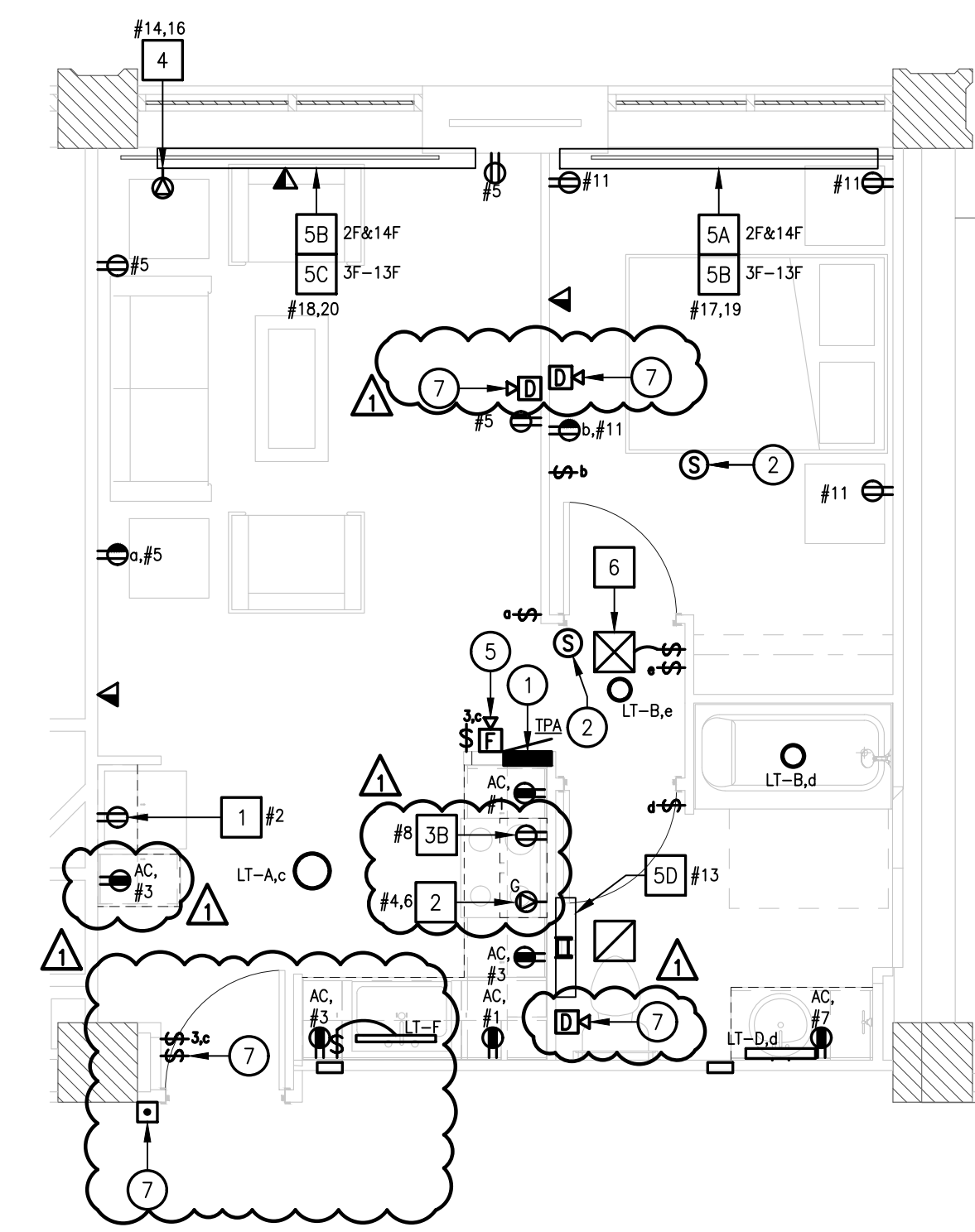
LDA Project No.23.47

TYPICAL DWELLING UNIT ELECTRICAL DETAILS
E3.00

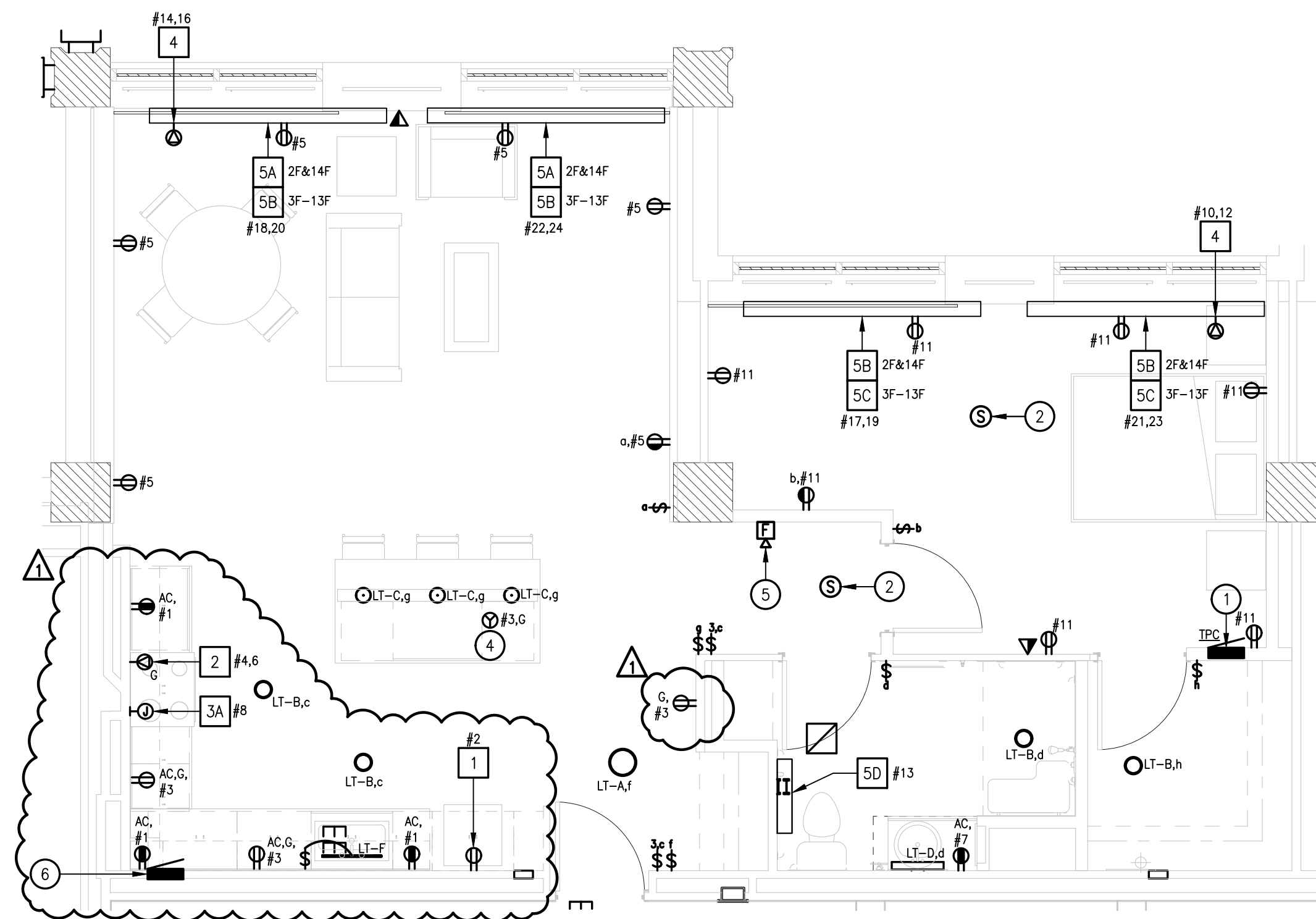
| REV | DATE | DESCRIPTION |
|-----|------------|------------------------|
| | 2023.12.18 | ISSUED FOR 50% PACKAGE |
| | 2024.02.02 | ISSUED FOR OHFA |
| | 2024.03.22 | ISSUED FOR PERMIT |
| Δ | 2024.04.12 | ISSUED FOR ADDENDUM 1 |



1 TYPICAL UNIT 1A ELECTRICAL PLAN
E3.01 SCALE: 1/4" = 1'-0"



2 TYPICAL UNIT 1B ELECTRICAL PLAN
E3.01 SCALE: 1/4" = 1'-0"



3 TYPICAL UNIT 1C ELECTRICAL PLAN
E3.01 SCALE: 1/4" = 1'-0"

GENERAL DWELLING UNIT ELECTRICAL PLAN NOTES

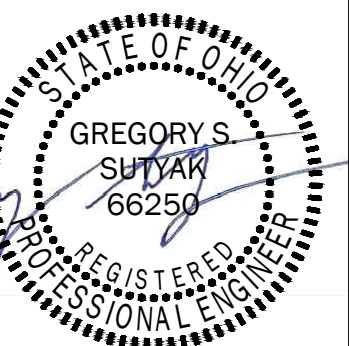
- ALL LIGHT FIXTURES, CEILING FANS, BATHROOM/KITCHEN EXHAUST FANS, AND SMOKE/COMBINATION SMOKE AND CO ALARMS SHALL BE CONNECTED TO CIRCUIT #9 IN RESPECTIVE UNIT LOAD CENTER UNLESS SHOWN OTHERWISE.
- REFER TO SHEET #E3.00 FOR ALL UNIT DETAILS, INCLUDING APPLIANCE SCHEDULES.
- FLOOR RECEPTACLES MAY BE INSTALLED IN LIEU OF WALL RECEPTACLES SHOULD WINDOWS/GLAZING OR SLIDING DOOR RECESSED POCKETS INTERFERE WITH WALL MOUNTING AT ANY LOCATION WITHIN THE DWELLING UNIT. FLOOR RECEPTACLES SHALL BE INSTALLED WITHIN 18" OF WINDOWS/WALLS OR PER NEC #210.52(A)(3).

FIELD VERIFY ALL CONDITIONS

- DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- THE CONTRACTOR SHALL CONTACT THE DESIGNER, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE DESIGNER, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT DESIGNER, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

CODED NOTES

- LOCATION OF NEW TENANT CIRCUIT BREAKER LOAD CENTER. REFER TO TYPICAL UNIT CIRCUIT BREAKER PANEL SCHEDULE ON SHEET #E3.00 FOR ADDITIONAL INFORMATION. ALL LIVING AREA BRANCH CIRCUITS SHALL BE PROVIDED WITH ARC-FAULT CIRCUIT INTERRUPTER PROTECTION IN ACCORDANCE WITH N.E.C. ARTICLE #210.12(A). PROVIDE A TYPE 1 OR 2 SURGE PROTECTIVE DEVICE (SPD) AND INSTALL IN EACH LOAD CENTER IN ACCORDANCE WITH NEC #215.16. TYPICALLY SIEMENS #500-2-A-065 OR EQUAL. BY OTHERS. THE KAIC RATING OF THE SPD SHALL NOT BE LESS THAN 10KAIC AND THE RATING OF THE LOAD CENTER AS SHOWN ON THE PANEL SCHEDULE REMOVE EXISTING CONDUCTORS BACK TO DISTRIBUTION PANEL AND ROUTE NEW AS DESCRIBED ON PARTIAL POWER RISER ON SHEET E0.03. EXTEND EXISTING CONDUIT AS REQUIRED TO NEW LOAD CENTER LOCATIONS, OR ROUTE NEW IF THE EXISTING CONDUIT IS UNDERSIZED IN ACCORDANCE WITH NEC TABLES.
- PROVIDE MULTIPLE STATION, SELF-RESTORING TYPE SMOKE ALARM(S) (COMBINATION SMOKE ALARM/CARBON MONOXIDE ALARM WHERE NOTED WITH "CO") WITH INTEGRAL BATTERY BACK-UP AND TANDEM WIRING CAPABILITY. PROVIDE CIRCUIT BREAKER "LOCK-ON" CLIP AND CONNECT TO DWELLING UNIT LIGHTING CIRCUIT INDICATED ON PANEL SCHEDULES ON SHEET #E3.00. DETECTORS SHALL BE WIRED SUCH THAT UPON ACTIVATION OF (1) DETECTOR, ALL OTHER DETECTORS IN THE UNIT ARE INITIATED. REFER TO WIRING DIAGRAM ON SHEET #E3.00.
- LOCATION OF STRUCTURED MEDIA ENCLOSURE "SME". REFER TO DETAIL ON DRAWING #E3.00 FOR ADDITIONAL INFORMATION. PROVIDE POWER FROM NEAREST LIVING AREA BRANCH CIRCUIT.
- COORDINATE FINAL LOCATION OF ISLAND/PENINSULA COUNTER RECEPTACLE WITH MILLWORK DRAWINGS AND S.C. IN FIELD. INCLUDE ALL WORK ASSOCIATED WITH CORE DRILLING OF COUNTERTOP TO MOUNT DEVICE. THIS RECEPTACLE SHALL BE PROTECTED BY A GFCI-TYPE CIRCUIT BREAKER.
- THIS FIRE ALARM DEVICE SHALL BE CONNECTED TO THE BASE BUILDING FIRE ALARM SYSTEM. VERIFY FINAL LOCATION WITH A.H.J. AND FIRE MARSHAL.
- LOCATION OF A SECOND, EXISTING, LOAD CENTER LOCATED IN UNIT TYPE 1C ONLY. REMOVE THE LOAD CENTER AND ALL EXISTING BRANCH CIRCUITING AND THE SECOND FEEDER BACK TO PANEL.
- LOCATION OF HEARING IMPAIRED DEVICES TO BE PROVIDED AND INSTALLED IN HEARING IMPAIRED UNITS ONLY (UNITS #309, #709, AND #1509. REFER TO ARCHITECTURAL DRAWING #A1.03). REFER TO WIRING DIAGRAM ON DRAWING #E3.00.



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Marquette Manor - Interior and Exterior Improvements
Cincinnati Metropolitan Housing Authority
1999 Sutter Avenue, Cincinnati, OH 45225

LDA Project No.23.47

TYPICAL DWELLING UNIT
ELECTRICAL PLANS
E3.01