



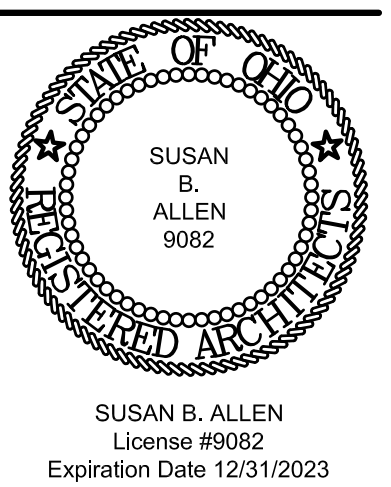
GERMANTOWN CROSSING

1520 GERMANTOWN ST.
DAYTON, OH 45417

100% CONSTRUCTION SET

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REVISIONS

TITLE SHEET
 GERMANTOWN CROSSING
 DAYTON OHIO



430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A001
DRAWING NUMBER

LOCATION MAP



PROJECT TEAM

 ARCHITECTS ARCHITECTURAL DESIGN 430 GRANT STREET AKRON, OHIO 44311 PHONE: 330-867-1093 FAX: 330-867-4198	 partners in design INTERIOR DESIGN 430 GRANT STREET AKRON, OH 44311 SUITE 102 PHONE: 330-867-1093 FAX: 330-867-4198
 Scheeser Buckley Mayfield CIVIL, PLUMBING, MECHANICAL, AND ELECTRICAL ENGINEERING 1524 CORPORATE WOODS PRKW. UNIONTOWN, OH 44685 PHONE: 330-562-2700 sbmce.com	 TTR Engineers STRUCTURAL ENGINEERING 450 GRANT STREET, SUITE 130 AKRON, OH 44311 PHONE: 330-733-8332

SYMBOLS

DOOR NUMBER
 ROOM NUMBER
 DOOR NUMBER

GLASS TYPE
 GLASS TYPE

ROOM NAME AND NUMBER
 ROOM NAME
 ROOM NUMBER

WINDOW TYPES
 WINDOW TYPE

DOOR TYPES
 DOOR TYPE

FRAME TYPES
 FRAME TYPE

ELEVATION
 DETAIL NUMBER
 SHEET WHERE DRAWN

WALL SECTION OR DETAIL
 DETAIL NUMBER
 SHEET WHERE DRAWN

PARTITION TYPE
 PARTITION TYPE

DRAWING ORGANIZATION SYSTEM

DRAWING FORMAT

NUMERIC SYSTEM CODE	DRAWING GROUPS
A001	TITLE SHEET
A002	CODE DATA AND LIFE SAFETY PLAN
A101, A102, ETC.	FLOOR, ROOF AND REFLECTED CEILING PLANS
A201, A202, ETC.	BUILDING ELEVATIONS AND MAJOR BUILDING SECTIONS
A301, A302, ETC.	STAIR, ELEVATOR SECTIONS AND DETAILS
A401, A402, ETC.	WALL SECTIONS AND DETAILS
A501, A502, ETC.	INTERIOR PLAN DETAILS AND INTERIOR ELEVATIONS
A601, A602, ETC.	PARTITION TYPES, DOOR SCHEDULE AND DETAILS, WINDOW SCHEDULE AND DETAILS
A701, A702, ETC.	FURNITURE, FINISH AND EQUIPMENT PLANS, FINISH SCHEDULES, PROJECT SPECIFIC PLANS AND DETAILS (I.E. CAGING, LAB EQUIPMENT, ETC.)

NUMERIC SYSTEM CODE	DISCIPLINE IDENTIFICATION
A101	DRAWING NUMBER
101	GROUP DESIGNATION
1010	DISCIPLINE PREFIX

DISCIPLINE PREFIX	DISCIPLINE
C	CIVIL
L	LANDSCAPING
A	ARCHITECTURAL
S	STRUCTURAL
P	PLUMBING
FP	FIRE PROTECTION
H	MECHANICAL
E	ELECTRICAL
T	TECHNOLOGY
K	KITCHEN

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DWELLING UNIT DISTRIBUTION

	1 BEDROOM	2 BEDROOM	3 BEDROOM	
MOBILITY UNIT	3	2	3	
SEEING & HEARING IMPAIRED UNIT (S & H)		1		
TYPICAL UNIT	10	23	8	
TOTAL				50 UNITS TOTAL

MOBILITY UNITS = 5% TOTAL EACH TYPE OF UNIT REQUIRED

(13) ONE BEDROOM X 5% = .65 1 UNIT REQUIRED 3 UNITS PROVIDED
 (26) TWO BEDROOM X 5% = 1.3 2 UNITS REQUIRED 2 UNITS PROVIDED
 (11) THREE BEDROOM X 5% = .55 1 UNIT REQUIRED 3 UNITS PROVIDED

SIGHT & HEARING IMPAIRED UNITS = 2% OF TOTAL UNITS REQUIRED

50 TOTAL UNITS X 2% = 1 1 UNIT REQUIRED 1 UNIT PROVIDED

PROJECT CODE DATA

BUILDING OFFICIAL JURISDICTION: MONTGOMERY COUNTY BUILDING REGULATIONS DIVISION

APPLICABLE CODE:
 2017 OHIO BUILDING CODE
 2017 OHIO PLUMBING CODE
 2017 OHIO MECHANICAL CODE
 2017 NATIONAL ELECTRIC CODE
 2019 OHIO RESIDENTIAL CODE
 ICC A117.1-2009
 2017 INTERNATIONAL ELECTRIC CODE
 UFAS
 SECTION 504 MOBILITY UNITS

PROJECT DESCRIPTION:

ONE THREE STORY BUILDING CONTAINING (50) UNITS. THE BUILDING IS TO BE WOOD STUD ON CONCRETE SLAB-ON-GRADE.

PROJECT ADDRESS: 1520 GERMANTOWN CROSSING
 DAYTON, OHIO 45417

CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION:

R-2 : RESIDENTIAL GROUP
 A-3 : ASSEMBLY GROUP : COMMUNITY ROOM (ACCESSORY USE TO R-2)
 B: BUSINESS

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY:

SECTION 420: GROUP R2 - SEPARATION WALLS
 SECTION 420.2: WALLS SEPARATING DWELLING UNITS: 1-HOUR (UL U-311)
 SECTION 420.3: HORIZONTAL SEPARATION : 1 HOUR (UL L-502)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS:

CONSTRUCTION TYPE: 5B (SPRINKLERED)

	ALLOWABLE	ACTUAL
60'-0" HEIGHT (TABLE 504.3)		40'-0" (PITCHED ROOF)
3 STORIES (TABLE 504.4)		3 STORIES

ALLOWABLE AREA PER FLOOR (TABLE 506.2)

	ALLOWED	ACTUAL
1ST FLOOR: R-2	21,000 SF	15,713 SF
1ST FLOOR A-3:	18,000 SF	1,352 SF
1ST FLOOR B:	27,000 SF	1,222 SF
TOTAL 1ST FLOOR:	66,000 SF	18,287 SF
2ND FLOOR R-2:	18,000 SF	17,777 SF
TOTAL 2ND FLOOR:	18,000 SF	17,777 SF
3RD FLOOR R-2:	18,000 SF	17,777 SF
TOTAL 3RD FLOOR:	18,000 SF	17,777 SF
BUILDING TOTAL:	102,000 SF	53,841 SF

TABLE 508.4: REQUIRED SEPARATION OF OCCUPANCIES
 R-2 TO A-3 1 HOUR SEPARATION (SPRINKLERED)
 R-2 TO B 1 HOUR SEPARATION (SPRINKLERED)

CHAPTER 6: TYPE OF CONSTRUCTION: FIRE RESISTANCE RATINGS - TABLE 601

CONSTRUCTION TYPE: 5B	0 HR.
PRIMARY STRUCTURAL FRAME:	0 HR.
BEARING WALLS:	0 HR.
EXTERIOR	0 HR.
INTERIOR	0 HR.
NON-BEARING WALLS AND PARTITIONS:	0 HR.
EXTERIOR	0 HR.
INTERIOR	0 HR.
FLOOR CONSTRUCTION:	0 HR.
ROOF CONSTRUCTION:	0 HR.

CHAPTER 7: FIRE RESISTANCE RATED CONSTRUCTION:

2 HOUR RATED ELEVATOR SHAFTS
 1 HOUR RATED TRASH SHAFTS AND MACHINE ROOMS
 1 HOUR RATED EGRESS STAIR SHAFTS
 CORRIDOR WALL - 1 HOUR SEPARATION
 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE (705.8)
 FIRE SEPARATION DISTANCE 30'-0" OR GREATER
 DEGREE OF OPENING PROTECTION UNPROTECTED (SPRINKLERED)
 ALLOWABLE AREA NO LIMIT

CHAPTER 8: INTERIOR FINISHES: TABLE 803.11 (SPRINKLERED)

OCCUPANCY	VERTICAL EXITS & EXIT PASSAGEWAYS	EXIT ACCESS CORRIDORS	ROOMS AND ENCLOSED SPACES
R-2	C	C	C
B	A	B	C
A-3	A	A	C

CHAPTER 9: FIRE PROTECTION SYSTEMS:

SEC. 903.3.1.1: NFPA13R SPRINKLER SYSTEM THROUGHOUT

SEC. 906.1: FIRE EXTINGUISHERS AS REQUIRED BY OHIO FIRE CODE. PROVIDE MINIMUM OF (53) TYPE 2-A FIRE EXTINGUISHERS; THREE (3) AT EACH FLOOR AS DIRECTED BY FIRE MARSHALL PLUS (1) IN EVERY UNIT KITCHEN.

SEC. 907.2.9 FIRE ALARM SYSTEM AND INTERCONNECTED SMOKE ALARMS REQUIRED THROUGHOUT

CHAPTER 10: MEANS OF EGRESS: TBL. 1004.1.1:

(R-2) OCCUPANCY	51,267 SF / 200 = 256.34
(B) OCCUPANCY	1,222 SF / 100 = 12.22
(A-3) OCCUPANCY	1,352 SF / 15 = 90.13

TOTAL BUILDING OCCUPANCY
 359 POSSIBLE OCCUPANTS

EGRESS WIDTH PER OCCUPANT: (1005.1)
 TYPE (R-2) OCCUPANCY .2" X 256.34 = 52"
 TYPE (B) OCCUPANCY .2" X 12.22 = 3"
 TYPE (A-3) OCCUPANCY .2" X 90.13 = 19"

DOOR SWING (1010.1.2.1) EGRESS SHOULD BE SIDE SWINGING SERVING 50 OR MORE OCCUPANTS - SWINGING IN THE DIRECTION OF TRAVEL.

EXIT TRAVEL DISTANCE (TABLE 1017.2) COMMON PATH OF TRAVEL: 250'-0" WITH SPRINKLER SYSTEM

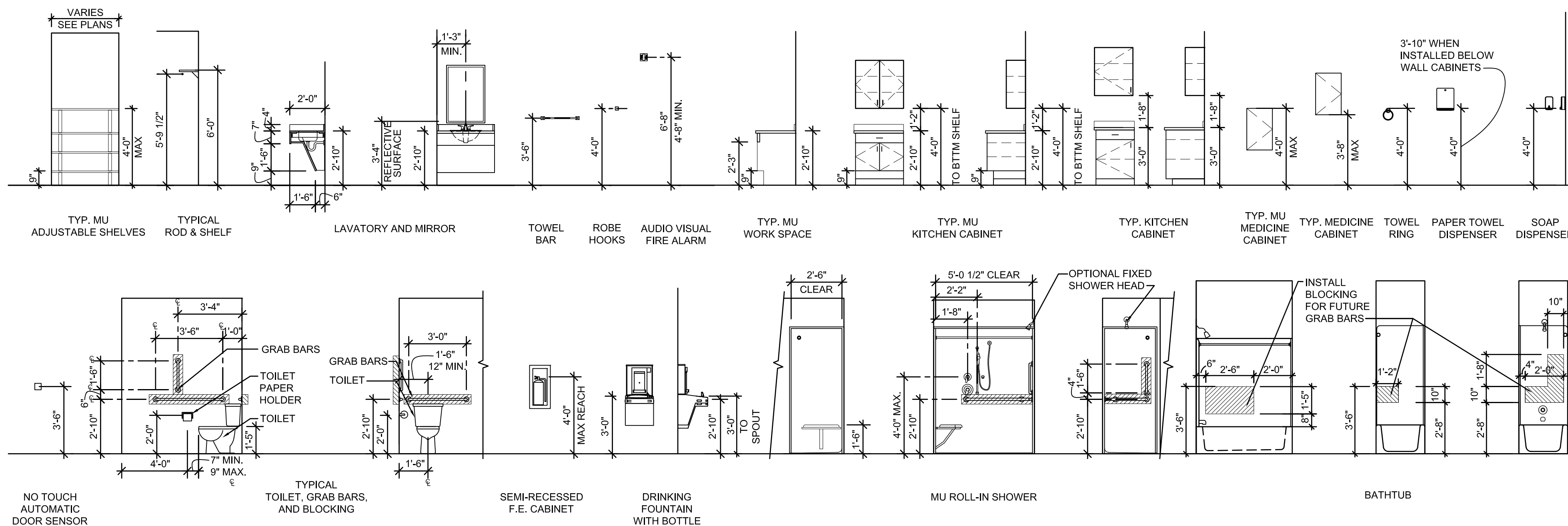
DEAD END CORRIDORS (1020.4): 50'-0" WITH SPRINKLER SYSTEM.

EMERGENCY ESCAPE AND RESCUE: (1030.2)

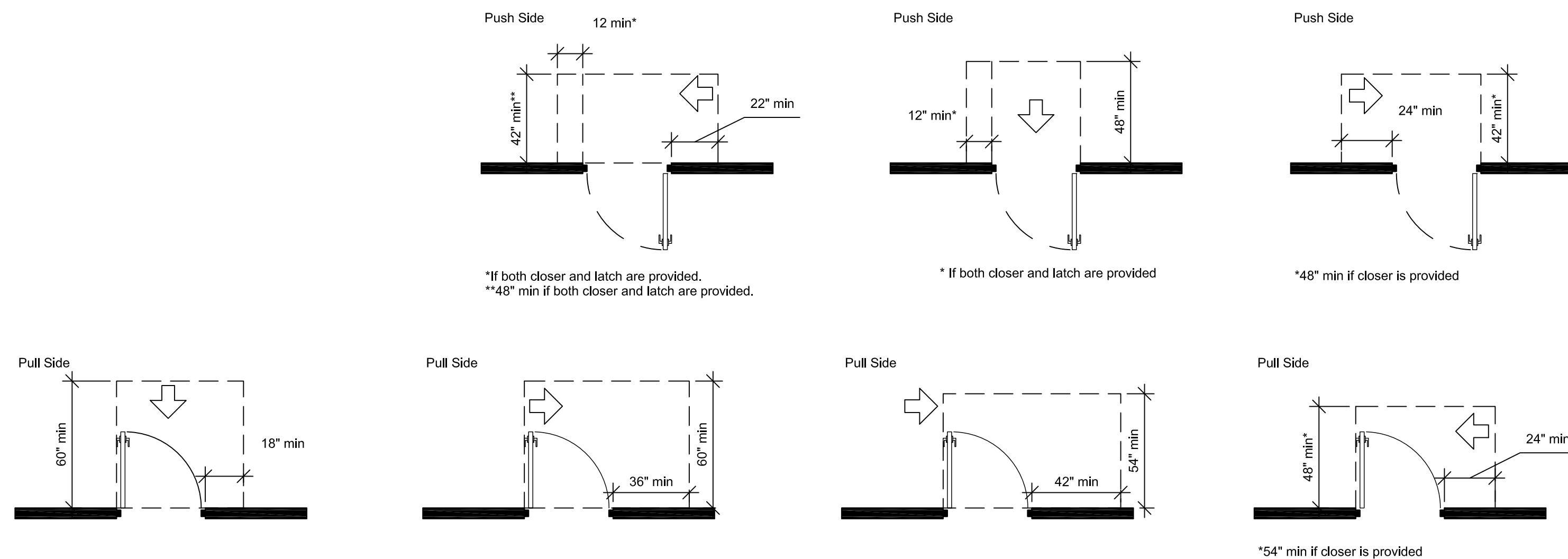
NET CLEAR OPENING = 5.7 SF
 HEIGHT = 24"
 WIDTH = 20"
 SILL = 44" MAX ABOVE FINISH FLOOR

CHAPTER 11: ACCESSIBILITY REQUIREMENTS:

THIS FACILITY IS DESIGNED IN ACCORDANCE WITH ANSI A117.1, THE AMERICANS WITH DISABILITIES ACT AND UFAS.

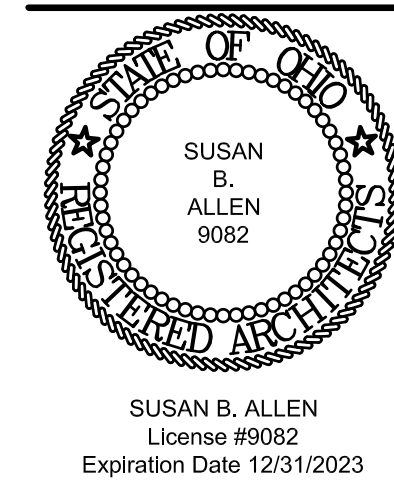


DESIGN STANDARDS



MANEUVERING CLEARANCES FOR ALL DOORS

(PER 2009 IBC CH 11 & ICC/ANSI 117.1-2003)



REVISIONS

NO.	DESCRIPTION

CODE DATA
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DAYTON OHIO

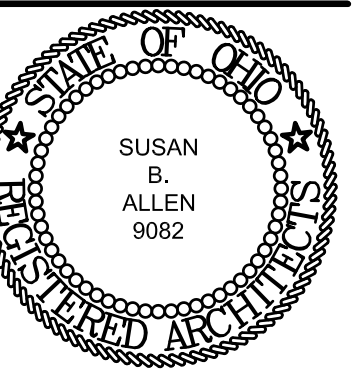


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TURNING VISIONS INTO REALITY

03/31/2023
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 82A21
 PROJECT NUMBER

A002
 DRAWING NUMBER



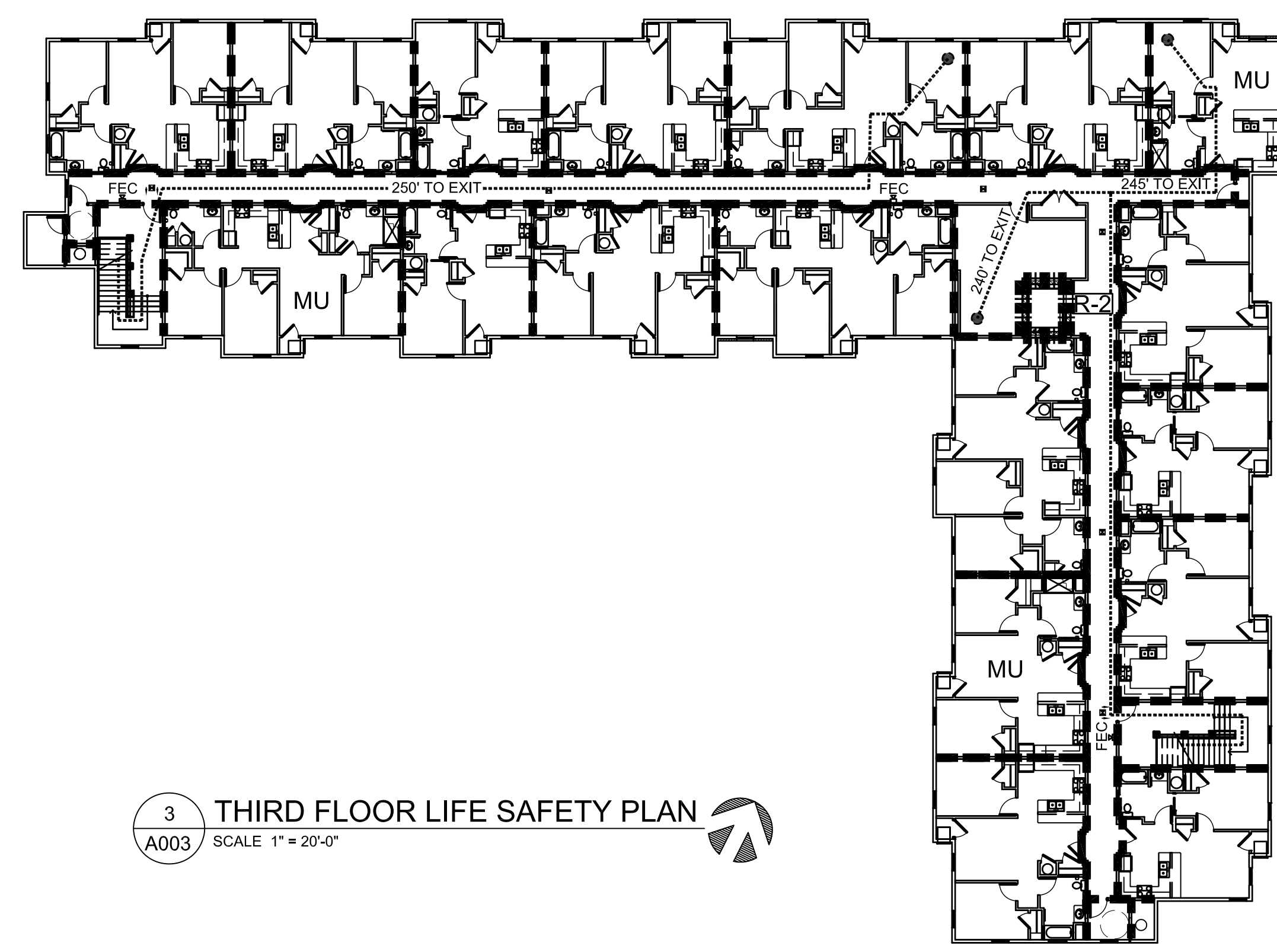
SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

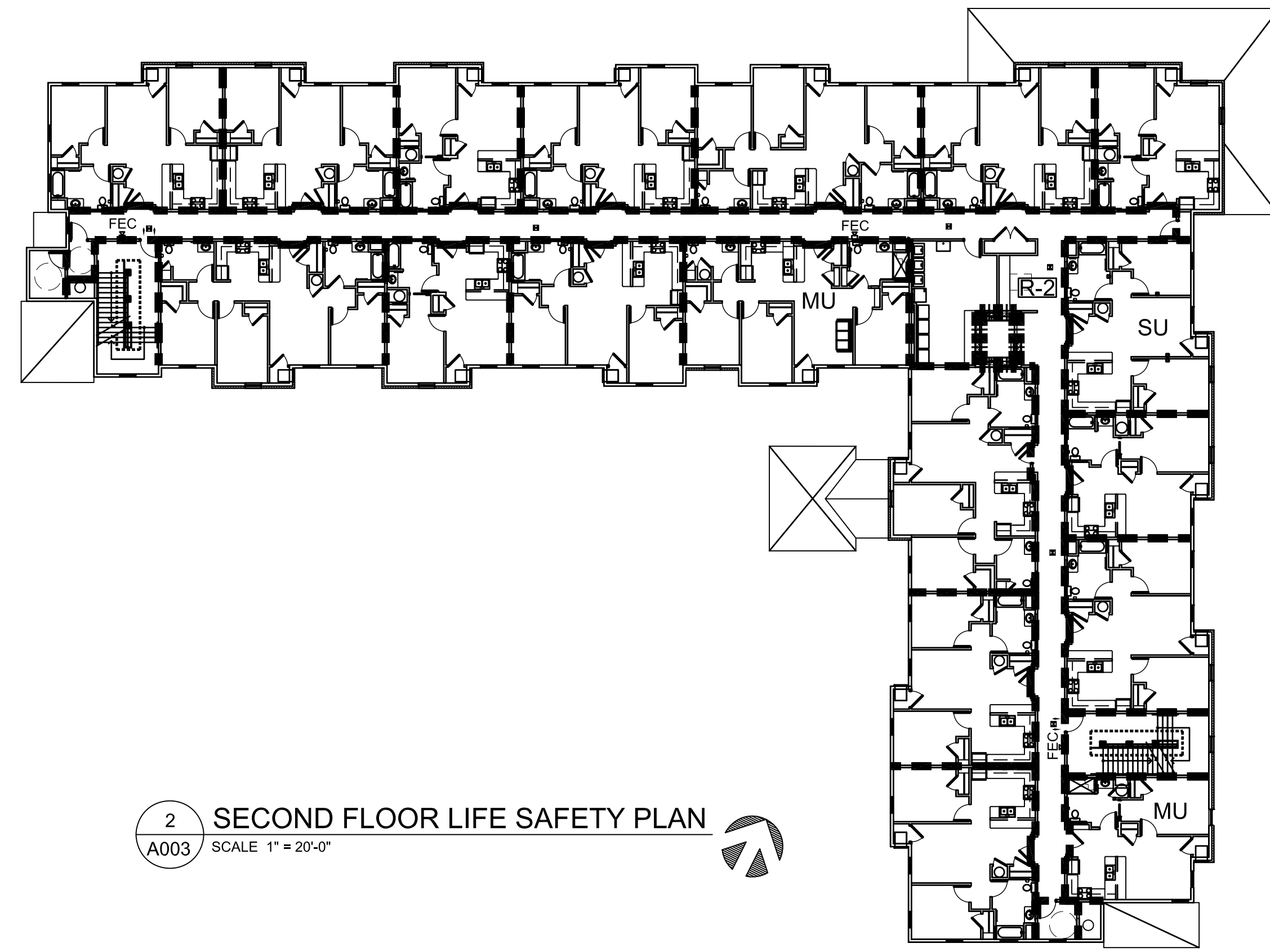
NO.	DATE	DESCRIPTION

LEGEND

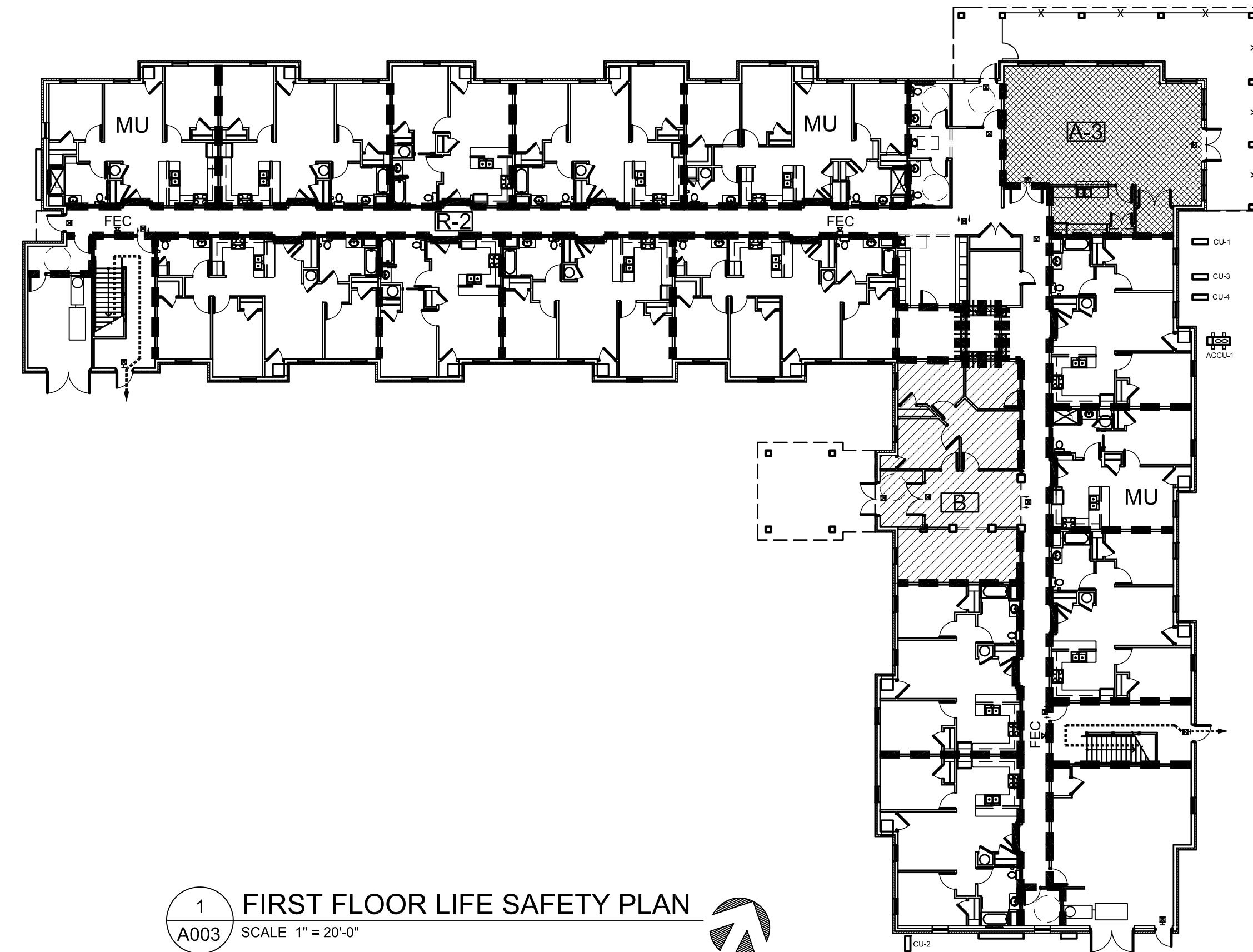
----- 1 HOUR RATED WALL 2 HOUR RATED WALL



3 THIRD FLOOR LIFE SAFETY PLAN
A003 SCALE 1" = 20'-0"



2 SECOND FLOOR LIFE SAFETY PLAN
A003 SCALE 1" = 20'-0"



1 FIRST FLOOR LIFE SAFETY PLAN
A003 SCALE 1" = 20'-0"

LIFE SAFETY PLANS
GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
INTO REALITY

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A003
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INSTRUCTIONS

- The architectural entity with whom the owner and developer contracted with to provide architectural services will complete the form and obtain all required signatures for the certifications.
- The project applicant will submit the completed and signed form with the proposal application.
- If funded, the project applicant will complete and submit the form again at final application with all changes from what was submitted at proposal application clearly identified.
- A copy of the final, completed form must also be included in the 90% percent plan sets, copied onto the page(s) following the cover sheet, submitted at final application.

All communications related to the architectural review, including submission of architectural plans, must be sent to arch@ohiohome.org

Helpful links:

- 2022 Design and Architectural Standards
- 2022 Exception Request Form
- 2022-2023 Qualified Allocation Plan
- 2022 Multifamily Underwriting Guidelines

SUBMISSION REQUIREMENTS

Preliminary Architectural Submission

At minimum, the proposal application architectural submission must include all of the following:

- This form, completed and signed Exception Request form(s), if applicable.
- Preliminary drawings, which shall include all of the following:
 - Cover sheet with name of development as submitted to OHFA, development address, development team, drawing index, code information, and table indicating unit schedule (including accessible, adaptable and sensory impaired units) types and sizes;
 - Site plan, including parking data and layouts;
 - Landscape plan;
 - Dimensioned floor plans with gross area of units and floor plans, as well as room designations and proposed finishes;
 - Exterior elevations with material notations;
 - Typical wall sections (new construction only); and
 - Schematic Drawings and/or schematic specifications for HVAC, plumbing, and electrical or similar items included in the scope of work.

Preliminary drawings, described above, shall be submitted in all of the following formats:

- Electronic format (pdf)

- Single PDF file for all drawings specified above.
- Separate, single PDF for specifications.
- Hard copy
 - Full set of architectural plans, 11" x17" scaled to fit. Full size plans will not be accepted.

Upon request only, preliminary drawings shall be submitted in DXF R-2017 format or DWG AutoCAD R-2017 format.

Final Architectural Submission

Final applications must include 80 percent complete permit sets, including final plans for all trades. Unless approved by OHFA, the plans must include the project name as submitted with the proposal application and OHFA tracking number. The submission must show conformity to the preliminary submittal, including the information included within this form. Substantive changes of any items that would affect competitive scoring will not be approved.

At minimum, the final application architectural submission must include all of the following:

- This form, completed and signed. Information included in this document must be updated as needed from the proposal application submission, and **must** match the information in the 80% plans.
- Verification that the drawings comply any and all accessibility, energy efficiency, universal design, and/or green building requirements required for the development or committed to in the application for funding.
- Asbestos, mold, radon, and lead-based paint considerations as required.
- Items required to be completed per Phase I or II Environmental Site Assessment, or per applicable Environmental Review performed by OHFA's environmental consultant.
- Plan sets, which shall include all of the following:
 - Site plans
 - Interior and Exterior elevations
 - Dimensioned floor plans
 - Wall sections (if applicable)
 - Structure (if applicable)
 - Finishes
 - Details
 - Mechanical plans
 - Drawings must have a dimensioned plumbing plan and control points located for rough-in site verification. All pipes-through-floor and the walls they are intended to be located within must be dimensioned relative to the foundation where they must align with walls and/or islands above. (new construction and adaptive reuse only)
 - OHFA strongly encourages a surveyor to locate wall and through-slab pipe penetrations. Foundation over dig must be filled with insulation or forms and then back filled per geotechnical reports.

Plan sets, described above, shall be submitted in all of the following formats:

- Electronic format (pdf)
 - Separate, single PDF files for drawings including all site plans, dimensioned floor plans, elevations, wall sections, structure, finishes, details and mechanical plans.

- Separate, single PDF file for specifications. Electronic format (AutoCAD)
 - Dimensioned floor plans only, submitted in DXF or DWG AutoCAD R-2017 format.
 - It is preferred that the project architect's polyline area lines be included.
 - If drawings are externally referenced (xref), submissions must be bound (xbind) prior to creating files for OHFA.
 - Proprietary authorship information such as title blocks, Architecture seals, etc. should be removed.
 - DXF should be generated from the base file and not a plan sheet file.
- Hard copy
- Full set of architectural plans, 11" x17" scaled to fit. Full size plans will not be accepted.

FORM SECTIONS

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A. DEVELOPMENT INFORMATION

- Development Name: Germantown Crossing
- OHFA Tracking Number (final application only):
- Address: 1520 Germantown Street
- City: Dayton
- Zip Code: 45417
- Competitive Pool: New Affordability- Central City
- Population Served: Family
- Construction Type: New Construction
- Wage Rate Requirements: If federal or state funds are utilized in the proposed development, select any regulations that apply to the proposed development.
 - Davis Bacon and related acts: Davis Bacon Act prevailing wage provisions apply to contractors and subcontractors performing on federally funded or assisted contracts in excess of \$2,000 for construction, alteration or repair (including painting and decorating) of public buildings or public works.
 - Ohio Prevailing Wage: Ohio's prevailing wage laws apply to all public improvements financed in whole or in part by public funds when the total overall project cost is fairly estimated to be more than \$200,000 for new construction or \$60,000 for reconstruction, enlargement, alteration, repair, remodeling, renovation, or painting.
 - HUD Section 3 Requirements: Section 3 is a provision of the Housing and Urban Development (HUD) Act of 1968 requiring that recipients of certain HUD financial assistance, to the greatest extent feasible, provide job training, employment, and contracting opportunities for low or very low-income residents in connection with projects and public works. None of the above are applicable

B. PROJECT CONTACTS

- Architect of Record
 - Company: TC Architects
 - Name: Susan Allen
 - Phone: (330) 867-1093
 - Email: sallen@tcarchitects.com
- Developer
 - Company: Model Property Development, LLC
 - Name: Andrea Money Penny
 - Phone: (513) 559-5865
 - Email: amoneypenny@modelgroup.net
- Owner
 - Company: Greater Dayton Premier Management
 - Name: Kiya Patrick
 - Phone: (937) 910-7632
 - Email: kpatrick@dmha.org

C. DEVELOPMENT DETAILS

- Number of sites: 1
- Number of residential buildings: 1
- Number of accessory buildings: 0
- Date built: To be complete in 2024
 - For proposals involving acquisition, rehabilitation or adaptive reuse, please specify the year the building(s) were originally constructed. For multiple building proposals or scattered site projects, a range of dates may be provided.
- Date first occupied: n/a, new construction
 - Year development was or will be occupied. For multiple building proposals or scattered site projects, a range of dates may be provided.
- Site acreage: 1.69
- Total # units: 50
- Total # low-income units: 50
- Number of efficiency units: 0
- Number of one-bedroom units: 13
- Number of two-bedroom units: 26
- Number of three-bedroom units: 11
- Number of four-bedroom units: 0
- Building/Zoning variances received: n/a

D. FLOOR AREA DETAILS

Space	GSF	Notes
Gross Square Footage of all Buildings	53,506	Measured from exterior face of exterior building includes structured exterior spaces (stair, balcony, portico).
Total Number of Low Income Units	50	
Commercial Space Condominium Areas:	0	Legally separate space under control of another program or condominiumized legal separation.
Commercial Areas and Fee-Driven Space:	0	Includes spaces for which residents must pay a fee for use/access (garages, storage).
Market Rate Unit Area:	0	Must include lofts, mezzanine and restricted headroom areas
Low Income Unit Area:	39,890	Must include lofts, mezzanine and restricted headroom areas
Managers Unit Area:	0	Must include lofts, mezzanine and restricted headroom areas

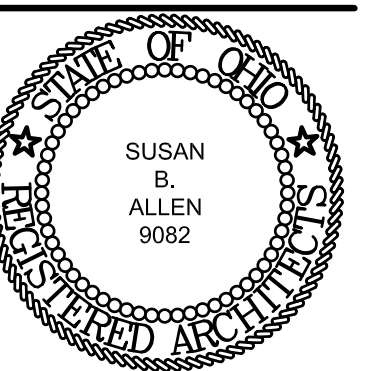
Common Area (Public):	2,312	Public restrooms, community rooms, libraries, offices, meeting rooms, kitchens, car canopy, portico, fitness rooms, laundry, mailboxes
Common Area (Circulation):	6,539	Public hallways, stairways, and corridors to residential units.
Dedicated Program Space:	1,479	Counseling space, wellness and health clinic areas, day care centers, etc.
Limited Common Area (Private):	0	Exterior spaces with access only through residential unit, i.e. balcony/porch/deck (patios without roof are not included).

Support:	1,525	Electrical, mechanical, elevator room, sprinkler room, janitorial, trash, maintenance, storage that is not for tenant use, free standing maintenance buildings.
Tenant Storage:	0	Tenant storage outside of unit.
Major Vertical Penetrations:	1,761	Includes duct shafts, stair shaft, elevator shaft, space open to below.
Structured Parking / Garage:	0	Attached or detached garage that residents do not pay a fee for.
Basement:	0	Includes spaces with a minimum of 7' clear head height. Spaces less than 7' are crawl spaces per R02 305.

TOTALS		
Non-Low Income Floor Area	0	Commercial Space Condo Areas + Commercial Areas + Market Rate Unit Area
Low Income Floor Area	46,429	LI unit area + Common Area (Circulation) + Limited Common Area (Private) + Tenant Storage
% Common Area	16.54%	Common Area (Public) + Common Area (Circulation) / Gross Square Footage
Net Rentable Square Footage	53,506	Gross Square Footage - Non-Low Income floor area
Average Net Rentable SQFT per LI Unit	1,070	Net Rentable Square Footage / Total number of Low Income Units

The following items should not be included in any of the above square footages:

- Trash enclosures
- Concrete patios without roofs
- Sidewalks



SUSAN B. ALLEN
9082
License #9082
Expiration Date 12/31/2023

REVISIONS

NO.	DATE	DESCRIPTION

OHFA DACF FORM

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

TURNING VISIONS
INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

A004

DRAWING NUMBER

E. ADAPTABILITY AND ACCESSIBILITY

- All developments must be designed and constructed to comply with all local, state, or federal accessibility guidelines that apply.
a. All developments must comply with the accessibility requirements as outlined in the Ohio Building Code, Chapter 4101.1-1.1, which includes the use of ICC/ANSI A117.1-2009 for the design and construction of accessible units.
b. All developments receiving OHFA funding must meet the accessibility requirements of Section 504. Identify the implementing standard the development will utilize to demonstrate compliance with Section 504 requirements (select one):
c. Developments may be subject to the Fair Housing Act design and construction requirements. If the development is subject to the Fair Housing Act design and construction requirements, verify that the project will be designed and constructed to meet the requirements of the Fair Housing Act and that all units, other than the accessible units, will be designed and constructed as ANSI Type B units.
d. Number of 504 mobility units required: 5
e. Number of 504 sensory units required: 1
f. Number of 504 mobility units provided: 8
g. Number of 504 sensory units provided: 1
h. Number of accessible parking spaces: 8
i. Total number of non-conforming accessible units & reason: (only applicable to adaptive reuse or rehabilitation projects if full compliance is technically infeasible. Exception request must have been submitted.) n/a

H. DESIGN-RELATED COMPETITIVE CRITERIA

- Select the items below that the development is seeking competitive points for under the 2021 QAP.
Design Features
Exercise and Wellness
Number of Bedrooms
I. SCOPE OF WORK
a. Provide an overview of the proposed improvements to be made involving site design, building design, mechanical and electrical systems and building components including building exterior, interior, and life safety items.
b. Address any issues raised in the Phase I Environmental Site Assessment (ESA) report(s) in the space provided below. Include information for all single-site and scattered-site proposals, as required by applicable program funding guidelines.
c. For any developments involving acquisition and rehabilitation, adaptive reuse or historic preservation, provide a narrative describing the history of improvements made to the building(s) and/or units.
N/A

- Metals: Stairway metal handrails and top rails capable of withstanding concentrated loads of 200 lbf applied at any point in any direction and uniform load of 50 lbf per lineal foot applied simultaneously in both vertical and horizontal directions.
Carpentry: 2x6 wood frame construction with prefabricated floor and roof trusses. Interior wood trim to be painted MDF.
Thermal and Moisture Protection: Building insulation including R-49 blown-in cellulose attic insulation and R-21 high-density fiberglass batt wall insulation. Exterior weather barrier provided over sheathing with flashing installed for positive drainage. Exterior cladding to include brick veneer, horizontal/vertical cement board siding and cement board panels. Roofing will include fiberglass asphalt shingles on #15 roof felt on 7/16" OSB with "T" clips on pre-engineered wood trusses at 24" on center. Water and ice shield at all valley, eave and cricket locations. 5:12 roof pitch. Aluminum gutters and downspouts.
Doors and Windows: All windows will be double hung vinyl. Windows and doors will be Energy Star rated for zone 5 and wind rated for 90 mph or DP-20 minimum. Exterior doors will be insulated core. Interior doors will be solid core.
Finishes and Appliances: Common spaces will include LVT. Units will include LVT throughout. All interior doors will be solid core. Low-VOC paints and primers will be used on the ceilings, walls and trim throughout the building. Units will include a frost-free refrigerator and freezer, 30-inch electric range and range hood.
Furnishings: Furnishings will be provided in the common space areas.
Plumbing: Plumbing fixtures will be low-flow. Toilets, showerheads and bathroom faucets will be WaterSense-labeled. Each unit will also contain its own stand alone water heating system that conforms to ASRAE 90.1-2012.
HVAC: Residential apartment heating and cooling provided by the use of stand alone variable refrigerant packaged heat pump (VRP) heating and cooling system conforming to ASHRAE 62.1-2013. A separate system will be provided to feed the common areas.
Electrical: Lighting packages for the units, common areas, and exteriors will comply with LEED Silver requirements. Individual electric meters will be provided for each dwelling unit. A separate electric meter will be provided for the landlord for building common spaces.

7

9

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F. SUSTAINABILITY

- Developments must meet all energy efficiency requirements as stated in the Ohio Building Code or Residential Code.
Yes, development will meet all energy efficiency requirements as stated in the Ohio Building Code or Residential Code.
In addition, all multifamily developments must obtain one of the below energy efficiency or green building certifications. Select which certification will apply to the development.
Energy Star MFHR Performance Path
Energy Star MFHR Prescriptive Path
LEED Certified
LEED Silver
ICC 700 NGBS Bronze
ICC 700 NGBS Silver
2020 Enterprise Green Communities
OHFA Limited Scope Rehabilitation Sustainability Standards
Energy Star Certified Homes
Energy Star MF New Construction
LEED Gold
LEED Platinum
ICC 700 NGBS Gold
ICC 700 NGBS Emerald

G. EXCEPTION REQUESTS

- Select the items an Exception Request form has been submitted for.
No requests for exception were submitted for this development.
New Construction
Items that are subject to non-OHFA (such as local codes or design standards, funding sources, etc.) requirements that may conflict with the OHFA Design and Architectural Standards.
Items that are unable to be complied with for a compelling reason, as fully described by the applicant in the Exception Request form.
Rehabilitation or Adaptive Reuse
Universal Design mandatory components
Durability Materials - Interior
Major Building Components
Common Areas
Elevators
Interior Doors
Floor Coverings
Unit Sizes
Bedroom Sizes
Bathrooms
Kitchen & Appliances
Laundry Facilities
Accessibility requirements (if compliance is technically infeasible)
Items with 75% or more RUL (if replacement required for green certification)
Durable Materials - Exterior
Main Entry
Sidewalks

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- For any developments proposing adaptive reuse or rehabilitation with historic tax credits, specify any restrictions or requirements that will be used to determine compliance with the Ohio Historic Preservation Tax Credit and/or Federal Historic Preservation Tax Credit programs.
N/A
Address any issues raised in the Physical Capital Needs Assessment (PCNA) and Scope of Work report(s) in the space provided below. Include information for all developments proposing rehabilitation of existing units or the adaptive reuse of a building at proposal submission, especially where the scope of work and PCNA do not agree.
N/A
SITE AND BUILDING COMPONENTS
For each item listed below, provide a brief description of the specific improvements that will be incorporated in the proposed development. Attach additional pages if needed. If no improvements will be made to the item, provide a description of their current state.

- Site Work (including security): The parking lot includes 80 parking spaces with 6 handicapped parking spaces. The lot will include concrete curbs, landscaping, lighting and underground detention. Security will include secured vestibules with key fob access for residents and an intercom system for guests. Lighting at the building entries and around the site will provide extra safety and security.
Concrete: Stone aggregate concrete trench foundations having a minimum compressive strength of 3,000 psi at 28 days. Slabs and exterior concrete shall have a minimum 4,000 psi strength.
Masonry: Solid load bearing concrete masonry units complying with ASTM C-90.

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J. UNIVERSAL DESIGN COMPONENTS

- Select all of the below items that will be included in the development. Mandatory items are marked with an asterisk. Refer to the pages 29 and 68-70 of the 2022-2023 QAP for more detail.
Additionally, specify the architectural page reference, or if it will be covered by a general/universal plan note, mark "Note".
Which of the below threshold options will the development be seeking? (select one)
All mandatory items + 10 additional in 50% of units
All mandatory items + 5 additional in 100% of units
Entry
Included? Page or Note Item
*36"-wide (minimum) entry door with lever-style handle (mandatory for NC only)
*Minimum 5' x 5' level clear space inside and outside entry door
*Adequate non-glare lighting at walkways, accessible routes, and exterior spaces
*Adequate lighting both inside and outside the building and unit entrance
*High visibility address numbers (both building and exterior units)
*Overhead weather protection at entrances (mandatory for NC only)
Built-in shelf/bench/ledge located outside the door
Non-slip surfaces on walkways and entryways
Primary unit entry with an accessible/dual peephole and backlit doorbell
Door locks that are easy to operate, such as keyless locks with remote control or keypad
No-step entry (1/2" or less threshold) at main entrance
Interior Stairs and Hallways
Included? Page or Note Item
*Adequate lighting to illuminate all stairway(s), landings, and hallway(s)
*Hallways with a minimum width of 42"
*Anti-slip strips on front edge of steps in color-contrast material
Color contrast between stair treads and risers
Handrails on both sides of interior stairs
Interior Doors
Included? Page or Note Item
*34"-wide (minimum) doors leading to habitable room, allowing for a 32" minimum clearance
*Lever-style door hardware on all interior doors
*Interior maximum door threshold of 1/4 inch beveled or flush
Pocket doors with easy-to-grip handles

12

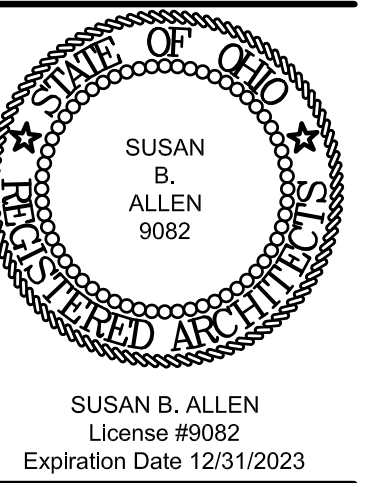


Table with 1 column and 10 rows for REVISIONS.

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DAYTON OHIO



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Faucets
Included? Page or Note Item

<input checked="" type="checkbox"/>	*Anti-scald faucets with lever handle for all sinks, bathtubs, and showers
<input type="checkbox"/>	*Pressure balanced faucets

Electrical
Included? Page or Note Item

<input checked="" type="checkbox"/>	*Thermostat and control panels that are easy to read and simple to operate
<input checked="" type="checkbox"/>	*Rocker, touch light, or hands-free switches
<input checked="" type="checkbox"/>	*Extra electrical outlets near the bed (for medical equipment or rechargeable items, etc.) placed 18" to 24" above finished floor (bedroom only)
<input type="checkbox"/>	Lighted switches visible in the dark
<input type="checkbox"/>	Switched outlets for lamps, etc. to be turned on with wall switch
<input checked="" type="checkbox"/>	Electrical outlets, phone jacks, and data ports at least 18" above finished floor
<input checked="" type="checkbox"/>	Light switches between 44"-48" above finished floor; thermostats no more than 48" above finished floor
<input type="checkbox"/>	Clear access space of 30" by 48" in front of switches, outlets, and controls
<input type="checkbox"/>	Audible and visual alarms for smoke/fire/carbon monoxide in all code-required accessible areas and all units

Bathrooms
Included? Page or Note Item

<input checked="" type="checkbox"/>	*Countertops with beveled edges
<input checked="" type="checkbox"/>	*Adjustable-height showerhead or hand-held showerhead with flexible hose and easily operable controls
<input checked="" type="checkbox"/>	*Non-glare lighting at vanities
<input type="checkbox"/>	A full- or half-bath on the main floor with clear floor space of 30" x 48"
<input type="checkbox"/>	Overhead light fixture in tub/shower
<input type="checkbox"/>	Mirror(s) placed for both standing and sitting, such as a full-length or tilting mirror
<input checked="" type="checkbox"/>	Toilet centered at least 18" from any side wall, tub, or cabinet
<input type="checkbox"/>	In at least one bathroom per unit.
<input type="checkbox"/>	Low-threshold or curbless shower at least 5' x 3' OR ADA bathtub with seat
<input type="checkbox"/>	Clear knee space (at least 27" high) under sink. May be open knee space or achieved by means of removable vanity or fold-back or self-storing doors. Pipe protection panels must be provided to prevent contact with hot or sharp surfaces.
<input type="checkbox"/>	Grab bars, or wall-blocking for future installation of grab bars, in tub/shower, and toilet. Grab bars must be properly anchored and supported.

Kitchen
Included? Page or Note Item

<input checked="" type="checkbox"/>	*At least 15" clear space on each side of stove, sink, and one side of fridge
-------------------------------------	---

K. CERTIFICATION

We represent, warrant and certify to OHFA that the following does and will apply to the proposed development:

The Development will be designed and constructed to meet the requirements of all applicable laws, codes, program guidelines, as well as the OHFA Design and Architectural Standards and specific features applicable to the project as outlined in this form. This includes any and all local, state, or federal accessibility laws that currently exist and apply to the project. Any additional cost of construction required for the Development to be in compliance with any of these laws has been included in the development budget.

By signing this document, the owner, architect, and general contractor certify that the plans, specifications, and features submitted as part of this application will become a minimum standard for the proposed development. This hereby becomes a binding agreement for the actual construction intent if the development is awarded OHFA funding.

OHFA does not take responsibility for design, construction, and plan review or any other municipal or building department review or approval and in no way does this agreement supersede any requirement by such jurisdictions.

OHFA reserves the right to verify compliance with agreed-upon features including durability of materials, accessibility, universal design, green building requirements and energy efficiency components.

1. Architect

I certify that the plans, specifications, and scope of work for the Development meet, and will continue to meet, any and all requirements including those set forth in this form, the OHFA Design and Architectural Standards, and all other applicable laws, codes, program guidelines or policy documents.

I understand that I am contractually obligated to know the federal, state and local accessibility laws applicable to the Development and have applied them accordingly. To the best of my professional knowledge and belief, I agree that the Development as designed is in compliance with all applicable federal, state and local housing and accessibility laws and regulations.

TC Architects	(330) 867-1093	sallen@tcarchitects.com
Company/Firm Name	Phone Number	Email
430 Grant Street, Akron, OH 44311		
Company/Firm Address		
Susan Allen	Vice President, Partner	
Printed Name (Firm Authorized Signatory)	Title	
Signature	Date	

13

<input checked="" type="checkbox"/>	*Loop handles on drawers and cabinets
<input checked="" type="checkbox"/>	*Non-glare task lighting to illuminate sink, stove, and work areas
<input type="checkbox"/>	Adjustable height shelves in wall cabinets
<input type="checkbox"/>	Base cabinets with pull out drawers
<input type="checkbox"/>	Pull-out work surface near the oven, refrigerator and/or microwave.
<input type="checkbox"/>	Visual contrast at front edge of countertop or between the countertop and the cabinets
<input type="checkbox"/>	Side-by-side refrigerator-freezer
<input type="checkbox"/>	Cooktop/range with front or side-mounted controls (senior units only)
<input type="checkbox"/>	Extra outlets for small appliances, electronics, etc.
<input type="checkbox"/>	Clear knee space (at least 27" high) under sink, counters, and/or cook tops. If under sink, pipes must have protection and may not be in the required knee space. May be open knee space or achieved by means of removable base cabinets or fold-back or self-storing doors.

2. General Contractor:

I certify that I have reviewed the plans, specifications, and scope of work for the Development and that the Development will be constructed in accordance with any and all requirements as set forth in this form, the OHFA Design and Architectural Standards, and all other applicable laws, codes, program guidelines or policy documents.

I understand that I am obligated to know the federal, state and local accessibility laws applicable to the Development and will build the project accordingly.

Model Construction, LLC	(513) 559-0048	bkeppler@modelgroup.net
Company/Firm Name	Phone Number	Email
1826 Race Street, Cincinnati OH 45202		
Company/Firm Address		
Robert Keppler	President	
Printed Name (Firm Authorized Signatory)	Title	
Signature	Date	

3. Owner:

I certify that I have reviewed the plans, specifications, and scope of work for the Development and that the Development shall be constructed in accordance with any and all requirements as set forth in this form, OHFA Design and Architectural Standards, and all other applicable laws, codes, program guidelines or policy documents.

The undersigned understands that any deviations from federal and state accessibility requirements are the responsibility of the Owner and, as such, Owner is responsible for such deviations.

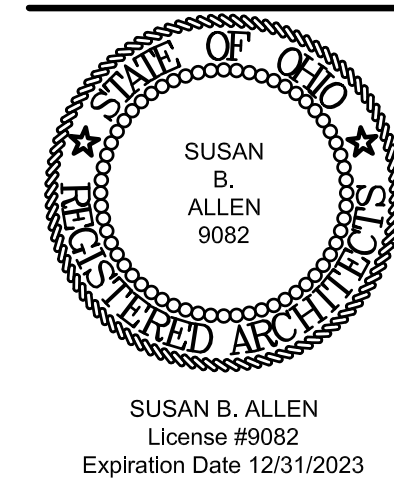
Further, if for any reason, the features are not constructed in accordance with the requirements set forth above, the undersigned understands that OHFA may revoke or recapture the Development's funding and/or limit or prohibit the future participation of the undersigned, any subsidiaries or related entities in OHFA programs.

Greater Dayton Premier Management & Inventus Dev Group	937-910-7500	jheapy@dmha.org
Company/Firm Name	Phone Number	Email
400 Wayne Avenue, Dayton OH 45410		
Company/Firm Address		
Jennifer N. Heapy	Chief Executive Officer	
Printed Name (Firm Authorized Signatory)	Title	
Signature	Date	

14

Closets/Storage
Included? Page or Note Item

<input type="checkbox"/>	Area is well-lit with a switch located outside the space
<input checked="" type="checkbox"/>	Doors and handles that are easy to operate. No bi-fold or accordion-type doors.
<input type="checkbox"/>	Adjustable-height shelving and/or closet rods OR clothes rods installed at multiple heights
<input type="checkbox"/>	Pull out-shelves, rollout cabinets, and other easy to access storage components



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82A21

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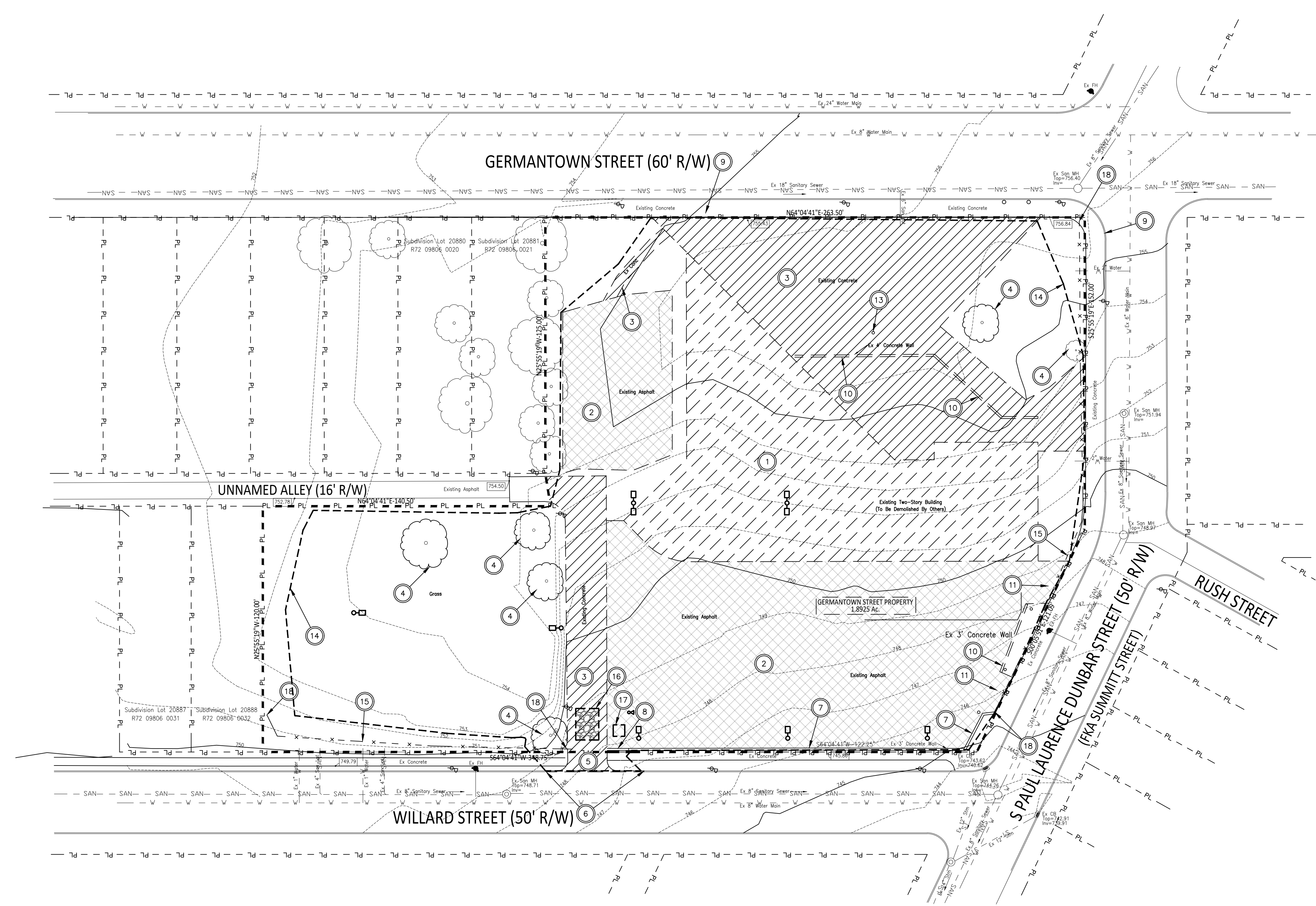
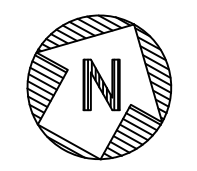
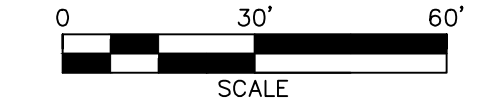
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DRAWING NUMBER

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SITE CLEARING PLAN



CONSTRUCTION NOTES

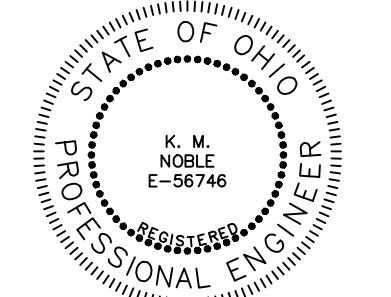
1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL TRAFFIC FLOW.
2. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT'S SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UTILITIES. IF DURING CONSTRUCTION OPERATIONS, A CONTRACTOR ENCOUNTERS UTILITIES IN LOCATION OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
3. ALL CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE, OR ADJACENT PROPERTY.
4. CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING ELEVATIONS AT CRITICAL POINTS SUCH AS APPROACHES OF DRAINAGE STRUCTURES, CURBING, ETC. VERIFICATION SHALL BE PERFORMED DURING LAYOUT STAGES AND SIGNIFICANT DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES.
6. ALL DISTURBED AREAS NOT PERMANENTLY IMPROVED SHALL BE SEEDED AND MULCHED.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN OHIO EPA NOI PERMIT FOR THIS PROJECT.

CODED NOTES

1. EXISTING BUILDING INCLUDING FOOTINGS AND FOUNDATIONS TO BE COMPLETELY REMOVED BY OTHERS. THAT WORK INCLUDES BACKFILLING THE BASEMENT AREA UP TO EXISTING GRADE. THIS BACKFILL IS NOT BEING COMPACTED. CONTRACTOR SHALL REMOVE THIS BACKFILL AND REINSTALL AT 8" LIFTS AND COMPACT EACH LIFT TO 98% DRY DENSITY. PROOF ROLL AREA WHEN COMPLETED.
2. EXISTING ASPHALT PAVEMENT TO BE REMOVED BY OTHERS.
3. CONTRACTOR SHALL REMOVE EXISTING CONCRETE SHOWN IN HATCHED AREA.
4. EXISTING TREE/BUSHES TO BE REMOVED INCLUDING STUMPS.
5. REMOVE CONCRETE BACK TO ROADWAY.
6. REMOVE CURBING BACK TO NEAREST CONSTRUCTION JOINT AS NECESSARY FOR NEW CONSTRUCTION.
7. EXISTING CONCRETE WALL TO REMAIN.
8. REMOVE SECTION OF CONCRETE WALL AND SIDEWALK AS NECESSARY FOR NEW DRIVE ENTRANCE.
9. EXISTING SIDEWALK WITHIN PUBLIC RIGHT-OF-WAY TO REMAIN.
10. EXISTING ONSITE CONCRETE WALL TO BE COMPLETELY REMOVED.
11. EXISTING CONCRETE APRON AND ASSOCIATED CURBING TO BE REMOVED.
12. EXISTING SIGN TO BE REMOVED.
13. EXISTING FLAG POLE TO BE REMOVED.
14. LIMITS OF CLEARING AND GRADING = 1.8 ACRES. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TREES INCLUDING STUMPS WITHIN THESE LIMITS.
15. INSTALL SILT FENCING PER DETAIL ON SHEET C501. REMOVE AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED.
16. INSTALL 70' LONG CONSTRUCTION ENTRANCE PER DETAIL ON SHEET C501.
17. INSTALL CONCRETE WASH-OUT PIT PER DETAIL ON SHEET C501.
18. ENDS OF THE SILT FENCES SHOULD BE BROUGHT UPSLOPE SLIGHTLY SO THAT WATER PONDED BY THE SILT FENCE WILL BE PREVENTED FROM FLOWING AROUND THE ENDS.

LEGEND

	PAVEMENT TO BE REMOVED BY OTHERS
	CONCRETE TO BE REMOVED BY OTHERS
	BUILDING TO BE REMOVED BY OTHERS
	SILT FENCE



Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

SITE CLEARING PLAN
GERMANTOWN CROSSING
DAYTON OHIO



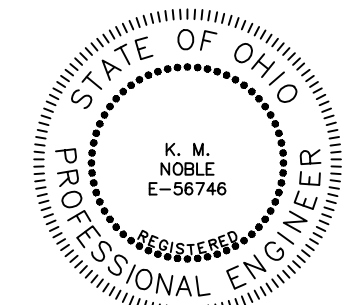
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Ken M. Noble 3/31/23
SIGNATURE DATE

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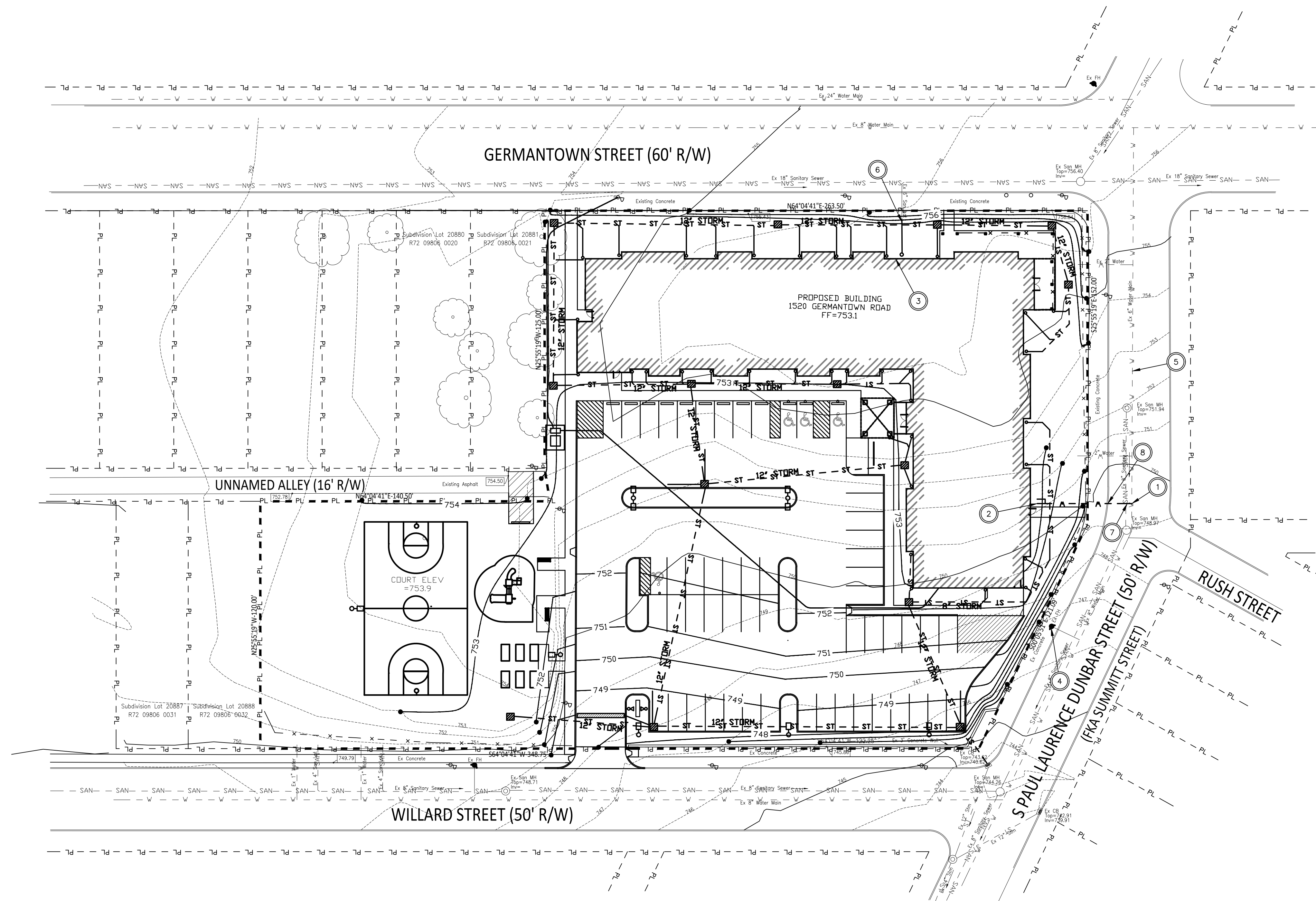
NO.	DESCRIPTION

CONSTRUCTION NOTES

1. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT SURVEY AND AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UTILITIES. IF DURING CONSTRUCTION OPERATIONS, A CONTRACTOR ENCOUNTERS UTILITIES IN LOCATION OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE LAYOUT OF THE PROJECT.
3. ALL CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE, OR ADJACENT PROPERTY.
4. EACH CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING ELEVATIONS AT CRITICAL POINTS SUCH AS APPROACHES OF DRAINAGE STRUCTURES, CURBING, ETC. VERIFICATION SHALL BE PERFORMED DURING LAYOUT STAGES AND SIGNIFICANT DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
5. ALL CONSTRUCTION SHALL CONFORM TO THE DEPT. OF LABOR, BUREAU OF LABOR STANDARDS SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION AND THE CONTRACT WORK HOURS AND SAFETY ACT. (CHAPTER XVII TITLE C&R, PART 1926 AND ALL ADDITIONS AND REVISIONS).
6. CONTRACTOR TO OBTAIN PROPER PERMITS FROM THE CITY OF DAYTON.

CODED NOTES

1. INSTALL 4" COMBINATION FIRE/WATER LINE PER CITY DAYTON WATER STANDARDS.
2. SPLIT 4" WATER LINE AT 10' FROM BUILDING INTO 4" DOMESTIC WATER LINE AND 4" FIRE LINE. INSTALL WITH VALVES AND CAP FOR EXTENSION INTO BUILDING. COORDINATE WORK WITH THE PLUMBING AND FIRE PROTECTION CONTRACTORS.
3. NEW BUILDING FOOTPRINT.
4. EXISTING FIRE HYDRANT. PROTECT DURING CONSTRUCTION
5. EXISTING PUBLIC WATER MAIN.
6. INSTALL 6" SANITARY LATERAL FROM EXISTING SANITARY STUB AS SHOWN AND END WITH A CLEANOUT AT INVERT = 751.0. COORDINATE WORK WITH PLUMBING CONTRACTOR. CONTRACTOR TO VERIFY EXISTING DEPTH AND LINE SIZE PRIOR TO THE START OF CONSTRUCTION AND IS TO NOTIFY ARCHITECTS IF EXISTING INVERT IS ABOVE 751.0.
7. CAUTION EXISTING UTILITY CROSSING.
8. REMOVE AND REPLACE PAVEMENT/SIDEWALK/CURBING AS NECESSARY FOR INSTALLATION OF NEW UTILITIES. WORK IS TO COMPLY WITH CITY OF DAYTON STANDARDS.



SITE UTILITY PLAN

GERMANTOWN CROSSING
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ARCHITECTS

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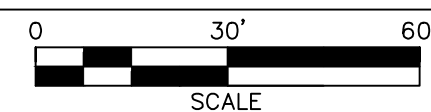
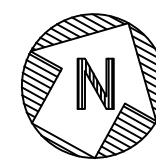
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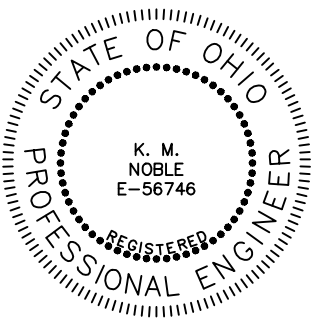
C200

DRAWING NUMBER



SITE UTILITY PLAN



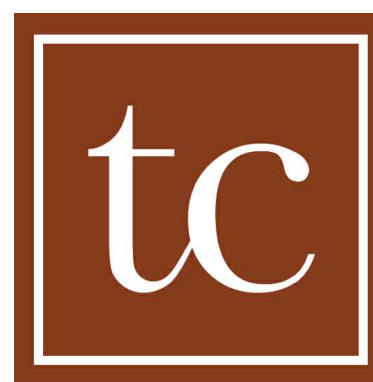


Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

STORM SEWER AND GRADING PLAN

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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TURNING VISIONS
INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

C400

DRAWING NUMBER

CONSTRUCTION NOTES

1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL TRAFFIC FLOW.
2. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT'S SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UTILITIES. IF DURING CONSTRUCTION OPERATIONS, A CONTRACTOR ENCOUNTERS UTILITIES IN LOCATION OTHER THAN THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE THE NECESSARY STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUANCE OF SERVICE.
3. ALL CONTRACTORS SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS SO AS TO ELIMINATE PONDING ON THE SITE, OR ADJACENT PROPERTY.
4. CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF EXISTING ELEVATIONS AT CRITICAL POINTS SUCH AS APPROACHES OF DRAINAGE STRUCTURES, CURBING, ETC. VERIFICATION SHALL BE PERFORMED DURING LAYOUT STAGES AND SIGNIFICANT DISCREPANCIES REPORTED TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES.

CODED NOTES

1. INSTALL 6" RAIN LEADER AS SHOWN (TYPICAL). EXTEND UP TO 1' ABOVE GRADE AND END WITH BOOT THAT MATCHES DOWNSPOUT SIZE. INSTALL WITH INVERT @ DOWNSPOUT OF 18" BELOW GRADE FINISHED GRADE. COORDINATE EXACT LOCATIONS OF DOWNSPOUTS WITH ARCHITECTURAL PLANS. (TYPICAL).
2. INSTALL TRENCH DRAIN "A" PER DETAIL ON SHEET C601.
3. INSTALL 12" STORM SEWER.
4. INSTALL INLET BASIN. INSTALL INLET PROTECTION AROUND BASIN AND REMOVE AT THE END OF THE PROJECT.
5. MAKE WATERTIGHT CONNECTION INTO EXISTING BASIN AT INVERT = 740.62.
6. INSTALL 20' LONG BY 4" PERFORATED (NO FILTER SOCK) SUBSURFACE DRAINS WITHIN BASE COURSE. TYPICAL OF THREE AT EACH BASIN IN THE PARKING LOT.

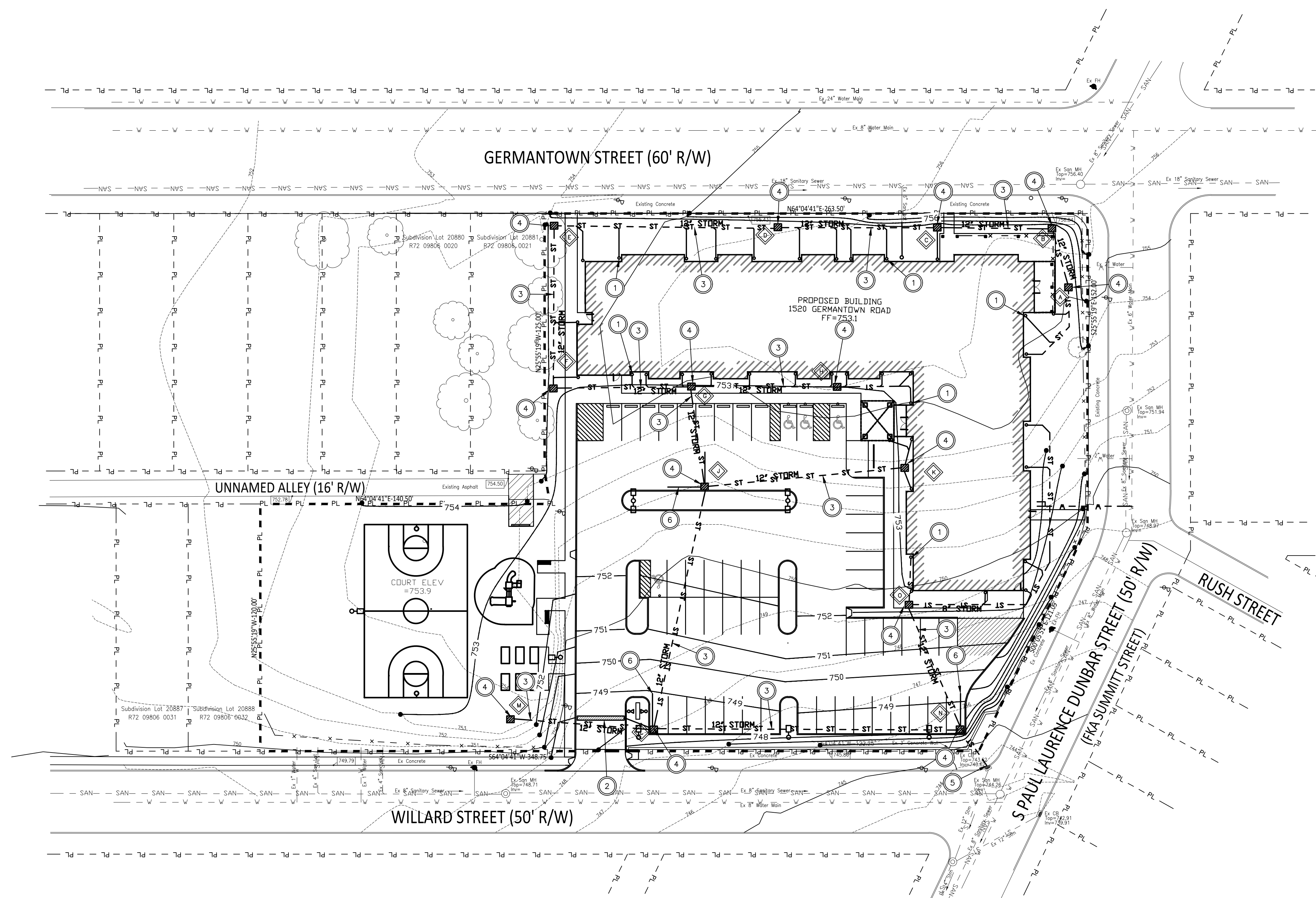
LEGEND

PROPOSED CONTOUR

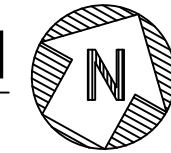
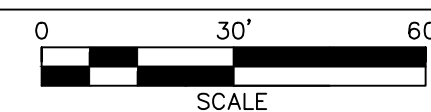
SEWER SUMMARY

<p>PROP. INLET BASIN "A" PROP. CASTING = 752.8 PROP. 12" INV (N) = 748.8 PROP. 6" INV (S) = 650.8</p>	<p>PROP. INLET BASIN "H" PROP. CASTING = 752.6 PROP. 12" INV (W) = 748.8 PROP. 6" INV (E) = 749.0</p>
<p>PROP. INLET BASIN "B" PROP. CASTING = 752.6 PROP. 12" INV (W & S) = 748.6</p>	<p>PROP. INLET BASIN "J" PROP. CASTING = 752.0 PROP. 12" INV (E, N & S) = 745.6</p>
<p>PROP. INLET BASIN "C" PROP. CASTING = 752.6 PROP. 12" INV (E & W) = 748.2</p>	<p>PROP. INLET BASIN "K" PROP. CASTING = 752.6 PROP. 12" INV (E) = 748.8 PROP. 6" INV (N&S) = 750.8</p>
<p>PROP. INLET BASIN "D" PROP. CASTING = 752.6 PROP. 12" INV (E & W) = 747.7</p>	<p>PROP. INLET BASIN "L" PROP. CASTING = 748.3 PROP. 12" INV (E, W & N) = 744.3 PROP. 8" INV (W) = 746.5</p>
<p>PROP. INLET BASIN "E" PROP. CASTING = 752.6 PROP. 12" INV (E & S) = 747.0</p>	<p>PROP. YARD BASIN "M" PROP. CASTING = 752.1 PROP. 12" INV (E) = 748.1</p>
<p>PROP. INLET BASIN "F" PROP. CASTING = 752.6 PROP. 12" INV (N & E) = 746.5</p>	<p>PROP. INLET BASIN "N" PROP. CASTING = 748.1 PROP. 12" INV (W & N & SE) = 741.0</p>
<p>PROP. INLET BASIN "G" PROP. CASTING = 752.6 PROP. 12" INV (E, S & W) = 746.0</p>	<p>PROP. INLET BASIN "O" PROP. CASTING = 752.0 PROP. 12" INV (SE) = 748.8 PROP. 6" INV (N) = 750.8 PROP. 8" INV (E) = 750.0</p>

NOTE:
AN EXISTING BUILDING AND PAVED PARKING LOT LOCATED ON THE SAME PARCEL AS THE PROPOSED PARKING LOT HAVE BEEN REMOVED. SEE OUTLINE ON SHEET C2.0. THIS PROJECT WILL RESULT IN A REDUCTION IN SITE STORMWATER RUNOFF AS THE ONSITE IMPERVIOUS AREA WILL BE REDUCED.



STORM SEWER AND GRADING PLAN



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STORM WATER POLLUTION PLAN – DURING CONSTRUCTION

EROSION SEDIMENT CONTROL AND CONSERVATION NARRATIVE

DESCRIPTION: THE CONSTRUCTION ACTIVITIES ON THIS SITE WILL RESULT IN A NEW BUILDING.

EROSION AND SEDIMENTATION CONTROL: EROSION AND SEDIMENT CONTROLS TO BE INSTALLED SHALL CONFORM TO THE WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREA'S HANDBOOK BY THE SOIL CONSERVATION SERVICE IN OHIO AND ARE TO BE HANDLED AS FOLLOWS:

SEDIMENT CONTROL PROGRAM – PHASE 1

1. ESTABLISH THE LIMITS OF CLEARING AND GRADING AS MARKED.
2. CLEAR AND GRUB THE NECESSARY AREAS FOR CONSTRUCTION OF THE TEMPORARY CONSTRUCTION ENTRANCE. INSTALL SILT FENCES AND TEMPORARY SEDIMENT BASINS.
3. INSTALL UTILITIES.
4. ONCE THE UTILITIES HAVE BEEN INSTALLED AND PARKING LOTS AND DRIVES ARE BROUGHT NEAR FINAL GRADE IN A MANNER SUCH THAT THE STORM SEWER IS FUNCTIONAL, INSTALL INLET PROTECTION.
5. AFTER CONSTRUCTION OPERATIONS HAS BEEN COMPLETED AND ALL DISTURBED AREAS HAVE BEEN STABILIZED, MECHANICAL SEDIMENT CONTROL SHALL BE REMOVED AND THE GROUND PERMANENTLY STABILIZED WITH VEGETATION.

ADDITIONAL SEDIMENT CONTROL NOTES

1. CONSTRUCTION ACCESS ROUTES:
 MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT BY VEHICLE TRACKING ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROL ONTO PUBLIC ROADS. IF SOIL IS TRANSPORTED ONTO PUBLIC ROAD SURFACE, THE ROADS SHALL BE CLEANED IMMEDIATELY. SOIL SHALL BE REMOVED FROM PAVED SURFACES BY SHOVELING OR SWEEPING. STREET WASHING SHALL BE UTILIZED ONLY AFTER SOIL HAS BEEN REMOVED BY SHOVELING OR SWEEPING. THE CONTRACTOR SHALL CONSTRUCT A SINGLE ACCESS DRIVE FOR HIS USE DURING CONSTRUCTION. THE DRIVE SHALL BE 50' LONG x 20' WIDE x 18" DEEP OF NO. 1 AND NO. 2 STONE. THE DRIVE SHALL REMAIN IN PLACE DURING CONSTRUCTION, AND THE CONTRACTOR SHALL ADD STONE AS REQUIRED TO MAINTAIN ITS INTEGRITY.

NOTES:

1. SEDIMENT PONDS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING AND SHALL CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABILIZED.
2. CAST IRON CATCH BASIN, GRATES AND INLET COVERS SHALL BE SUPPLIED WITH "DUMP NO WASTE, DRAINS TO WATERWAYS" CAST IN A VISIBLE LOCATION.
3. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.
4. OFFSITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD(S) NOTED ON THE PLANS.
5. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (1996)
6. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
7. WATER QUALITY DESIGN WITHIN THE SITE'S STORMWATER MANAGEMENT FACILITY IS UTILIZED TO ENHANCE WATER QUALITY RUNOFF. THE STORMWATER MANAGEMENT FACILITY INCLUDES ORIFICE AND WEIR CONTROLS TO CONTROL OUTLET DISCHARGE RATES AND TO REDUCE OVERALL STORM HYDROGRAPH PEAKS.
8. EROSION CONTROL BLANKETS WITH MATTING IS TO BE USED ON DITCHES GREATER THAN 1.5% AND ON ALL OTHER SLOPES GREATER THAN 6% GRADE.
9. WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
10. THERE SHALL BE NO SEDIMENT-LADEN DISCHARGES TO SURFACE WATERS OF THE STATE RESULTING FROM DEWATERING ACTIVITIES. IT MUST PASS THROUGH A SEDIMENT SETTLING POND OR OTHER EFFECTIVE SEDIMENT CONTROL DEVICE PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE.
11. ANY AREAS AT FINAL GRADE OR THAT LIE DORMANT FOR ONE YEAR OR MORE REQUIRE PERMANENT SEEDING WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE (REFER TO OHIO'S "RAINWATER AND LAND DEVELOPMENT" MANUAL). IN ADDITION, ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE REQUIRE EROSION CONTROLS WITHIN 2 DAYS OF REACHING FINAL GRADE. NOTE THAT A 70% VEGETATIVE DENSITY IS REQUIRED ON ALL DISTURBED SOIL AREAS FOR STABILIZATION. ANY OTHER AREAS AT FINAL GRADE REQUIRES PERMANENT SEEDING WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.
12. CONSTRUCTION PROJECTS THAT ARE TO BE DORMANT OVER THE WINTER MONTHS MUST BE STABILIZED USING SEEDING. SEEDING MUST BE COMPLETED IN TIME SO THAT ENOUGH HAS SPROUTED BEFORE THE GROWING SEASON ENDS.
13. SOIL THAT IS STOCKPILED TEMPORARILY ON SITE FOR A PERIOD GREATER THAN 7 DAYS IS TO BE SEEDED AND THE PERIMETER SURROUNDED WITH SILT FENCE. THE DRIVE IS TO BE STABILIZED WITH BASE STONE AS SOON AS GRADING ALLOWS.
14. ALL TRENCH DEWATERING IS TO BE DISCHARGED INTO THE PROJECT'S SEDIMENT BASIN.
15. ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR REQUIRES TEMPORARY SEEDING WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.

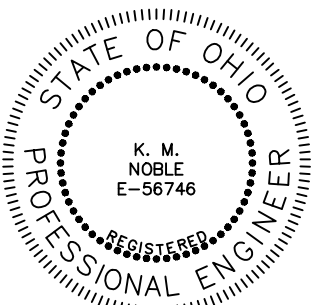
GENERAL NOTES FOR SEDIMENT POLLUTANT CONTROLS

1. PERIMETER SEDIMENT CONTROLS (I.E. SEDIMENT TRAPS, SILT FENCE, COMPOST SOCKS, COMPOST BERMS, ETC..)
2. NO EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED FROM THE SITE PRIOR TO ADEQUATE PERMANENT STABILIZATION OF THE ASSOCIATED UPLAND DRAINAGE AREAS AND WITHOUT FIRST OBTAINING AUTHORIZATION FROM THE CITY ENGINEER, OR HIS DESIGNATED REPRESENTATIVE, UNLESS THEIR REMOVAL IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
3. THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUNDWATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT TRAP OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE, PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.
4. STREETS DIRECTLY ADJACENT TO CONSTRUCTION ENTRANCES AND RECEIVING TRAFFIC FROM THE DEVELOPMENT AREA, SHALL BE CLEANED DAILY TO REMOVE SEDIMENT TRACKED OFF-SITE. IF APPLICABLE, THE CATCH BASINS ON THESE STREETS NEAREST TO THE CONSTRUCTION ENTRANCES SHALL ALSO BE CLEANED WEEKLY. BASED ON SITE CONDITIONS, PRACTICES TO CONTROL OFF-SITE TRACKING AND DUST.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, TO INSPECT ALL CONTROLS ON THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT GREATER THAN ONE-HALF INCH OF RAIN PER TWENTY-FOUR (24) HOUR PERIOD. WHEN INSPECTIONS REVEAL THE NEED FOR REPAIR, REPLACEMENT, OR INSTALLATION OF EROSION AND SEDIMENT CONTROL BMPs, THE FOLLOWING PROCEDURES SHALL BE FOLLOWED:
 - a. WHEN PRACTICES REQUIRE REPAIR OR MAINTENANCE: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT-SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN THREE (3) DAYS OF THE INSPECTION. SEDIMENT-SETTLING PONDS MUST BE REPAIRED OR MAINTAINED WITHIN TEN (10) DAYS OF THE INSPECTION.
 - b. WHEN PRACTICES FAIL TO PROVIDE THEIR INTENDED FUNCTION: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE FAILS TO PERFORM ITS INTENDED FUNCTION AS DETAILED IN THE SWP3 AND THAT ANOTHER, MORE APPROPRIATE CONTROL PRACTICE IS REQUIRED, THE SWP3 MUST BE AMENDED AND THE NEW CONTROL PRACTICE MUST BE INSTALLED WITHIN TEN (10) DAYS OF THE INSPECTION.
 - c. WHEN PRACTICES DEPICTED ON THE SWPP ARE NOT INSTALLED: IF AN INTERNAL INSPECTION REVEALS THAT A CONTROL PRACTICE HAS NOT BEEN IMPLEMENTED IN ACCORDANCE WITH THE SCHEDULE, THE CONTROL PRACTICE MUST BE IMPLEMENTED WITHIN TEN (10) DAYS FROM THE DATE OF INSPECTION. IF THE INTERNAL INSPECTION REVEALS THAT THE PLANNED CONTROL PRACTICE IS NOT NEEDED, THE RECORD MUST CONTAIN A STATEMENT OF EXPLANATION AS TO WHY THE CONTROL PRACTICE IS NOT NEEDED.
6. THE OWNER SHALL MAINTAIN FOR THREE (3) YEARS FOLLOWING FINAL STABILIZATION THE RESULTS OF THESE INSPECTIONS, THE NAMES AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTIONS, THE DATES OF INSPECTIONS, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWP3, A CERTIFICATION AS TO WHETHER THE FACILITY IS IN COMPLIANCE WITH THE SWP3, AND INFORMATION ON ANY INCIDENTS OF NON-COMPLIANCE DETERMINED BY THESE INSPECTIONS.
7. EROSION AND SEDIMENT CONTROL PRACTICES NOT ALREADY SPECIFIED ON THIS PLAN MAY BE NECESSARY DUE TO UNFORESEEN ENVIRONMENTAL CONDITIONS AND/OR CHANGES IN DRAINAGE PATTERNS CAUSED BY EARTH – MOVING ACTIVITY. ADDITIONAL PRACTICES SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.
8. NO STRUCTURAL SEDIMENT CONTROLS (E.G. SILT FENCE, SEDIMENT TRAPS, ETC.) SHALL BE USED IN A WATER RESOURCE OR WETLAND, UNLESS THEIR USE IS SPECIFICALLY PROVIDED FOR WITHIN THE SITE'S APPROVED PLAN.
9. SOIL STOCKPILES, TOPSOIL OR OTHERWISE, SHALL BE SITUATED AWAY FROM STREETS, SWALES, OR OTHER WATERWAYS AND SHALL BE SEEDED AND/OR MULCHED IMMEDIATELY.
10. ON-SITE PERSONNEL SHALL TAKE ALL NECESSARY MEASURES TO COMPLY WITH APPLICABLE REGULATIONS REGARDING FUGITIVE DUST EMISSIONS, INCLUDING OBTAINING NECESSARY PERMITS FOR SUCH EMISSIONS. THE CONSTRUCTION ACTIVITIES MAY REQUIRE DUST CONTROLS INCLUDING, BUT NOT LIMITED TO, THE USE OF WATER TRUCKS TO WET DISTURBED AREAS, TARPING STOCKPILES, TEMPORARY STABILIZATION OF DISTURBED AREAS, AND REGULATION OF THE SPEED OF VEHICLES ON THE SITE.

GENERAL NOTES FOR NON – SEDIMENT POLLUTANT CONTROLS

1. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR ENSURING ALL FORMS OF WASTE ARE PROPERLY DISPOSED OF.
2. CONTAMINATED SOILS FROM REDEVELOPMENT SITES SHALL BE DISPOSED OF PROPERLY. RUNOFF FROM CONTAMINATED SOILS SHALL NOT BE DISCHARGED FROM THE SITE. PROPER PERMITS SHALL BE OBTAINED FOR DEVELOPMENT PROJECTS ON SOLID WASTE LANDFILL SITES OR REDEVELOPMENT SITES.
3. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE. A SUMP OR PIT WITH NO POTENTIAL FOR DISCHARGE SHALL BE CONSTRUCTED IF NEEDED TO CONTAIN CONCRETE WASH WATER. FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURES WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED. FOR SMALL PROJECTS, TRUCK CHUTES MAY BE RINSED AWAY FROM ANY WATER CONVEYANCES.
4. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, CONSTRUCTION & DEMOLITION, SANITARY, TOXIC, CONTAMINATED SOILS, ETC.) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES/REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND NOT LEAKING. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, GEMENT CURING COMPOUNDS AND ANY OTHER SUCH TOXIC OR HAZARDOUS MATERIALS OR WASTES.
5. HANDLING CONSTRUCTION CHEMICALS. MIXING, PUMPING, TRANSFERRING OR OTHER HANDLING OF CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.
6. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED AWAY FROM WATERCOURSES, DITCHES OR STORM DRAINS, IN AN AREA DESIGNATED FOR THAT PURPOSE. THE DESIGNATED AREA SHALL BE EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS. SECONDARY CONTAINMENT WITH A MINIMUM CAPACITY EQUAL TO 110% OF THE VOLUME OF ALL CONTAINERS IN A STORAGE AREA SHALL BE PROVIDED FOR ALL FUEL/LIQUID STORAGE TANKS AND DRUMS.
7. ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.
8. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:
 - a. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 - b. ALL MATERIALS STORED ON SITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - c. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE MANUFACTURER'S LABEL. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - d. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - e. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - f. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.
9. IN ADDITION TO PREVIOUS NOTES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEAN-UP:
 - a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN-UP WILL BE POSTED AND SITE PERSONNEL MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY DESIGNATED FOR THIS PURPOSE.
 - c. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - d. THE SPILL AREA WILL BE KEPT WELL-VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
 - e. SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL OF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
 - f. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY OPERATIONS WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.

LAND STABILIZATION MEASURES	
PERMANENT STABILIZATION	
ARE REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA
TEMPORARY STABILIZATION	
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA –FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER



Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

EROSION CONTROL NARRATIVE

GERMANTOWN CROSSING

DAYTON OHIO

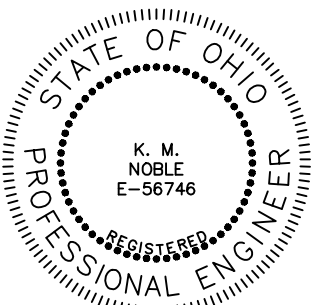


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TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

C500
DRAWING NUMBER



Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

EROSION CONTROL DETAILS
 GERMANTOWN CROSSING
 DAYTON OHIO



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TURNING VISIONS
INTO REALITY

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82A21

PROJECT NUMBER

C501

DRAWING NUMBER

STABILIZED CONSTRUCTION ENTRANCE

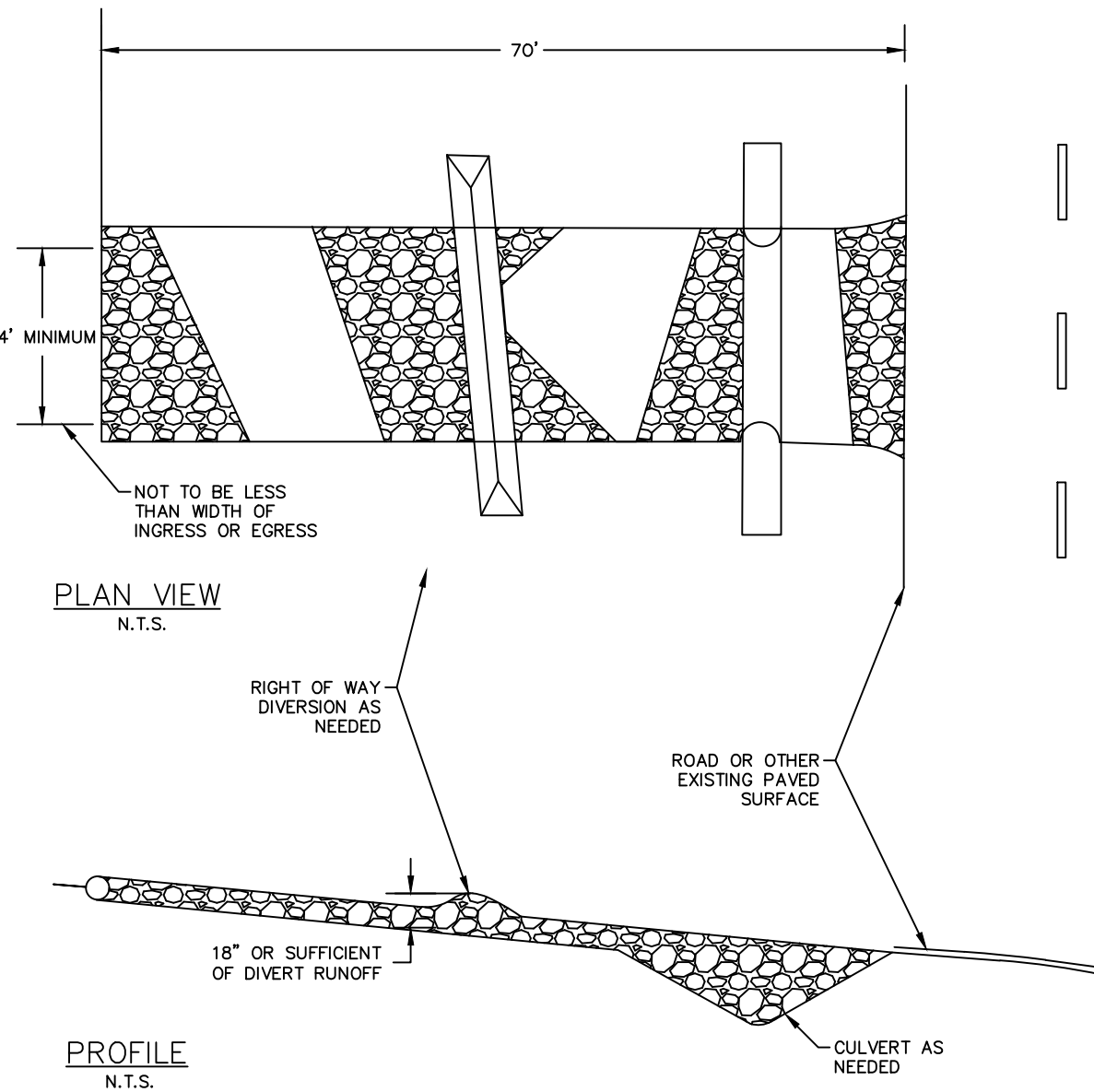
- INSTALLATION:
- ODOT #2 (1.2"-2.5") STONE OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT A MINIMUM 6-INCH THICKNESS FOR LIGHT DUTY USE OR AT LEAST 10-INCH THICKNESS FOR HEAVY-DUTY USE.
 - THE ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS (30 FT MINIMUM ON A SINGLE RESIDENTIAL LOT; 70 FT MINIMUM ELSEWHERE).
 - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS

MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20 %
EQUIVALENT OPENING SIZE	EOS < 0.6 MM
PERMEABILITY	1x10 ⁻³ CM/SEC

- IF NEEDED, A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OUT ONTO PAVED SURFACES.
- IF NEEDED, A WATER BAR SHALL BE CONSTRUCTED TO PREVENT SURFACE WATER FROM FLOWING ALONG THE LENGTH OF THE ENTRANCE OUT ONTO PAVED SURFACES.

- MAINTENANCE:
- TOP DRESS WITH ADDITIONAL STONE AS SITE CONDITIONS DEMAND.
 - REMOVE MUD TRACKED ONTO PUBLIC STREETS IMMEDIATELY VIA SCRAPING OR SWEEPING.
 - ENSURE THE ENDS OF THE TEMPORARY CULVERT PIPE (IF UTILIZED) ARE NOT BLOCKED AND THAT THE PIPE IS FREE OF DEBRIS THROUGHOUT.

- REMOVAL:
- THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.
 - PULL OUT ALL CONSTRUCTION ENTRANCE MATERIAL AND PROPERLY DISPOSE OF OFF-SITE. STONE CAN BE BLENDED INTO THE SURROUNDING LANDSCAPE AS SITE CONDITIONS ALLOW.
 - RE-GRADE THE AREA AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.



SILT FENCE

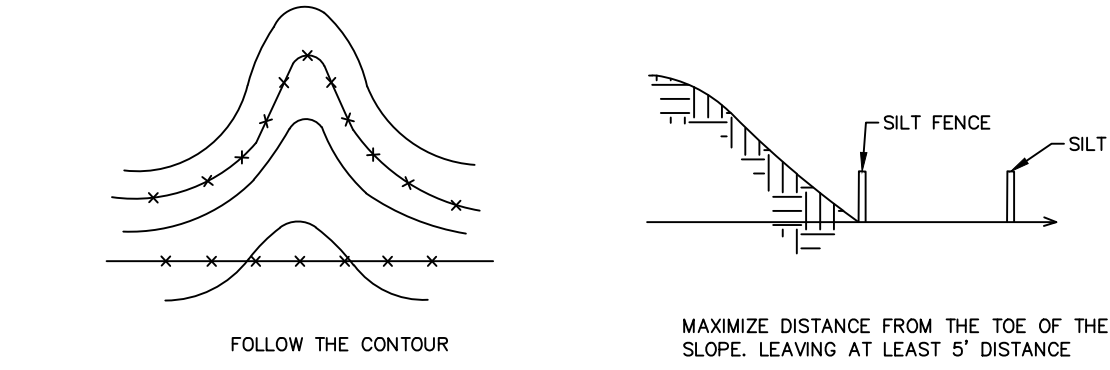
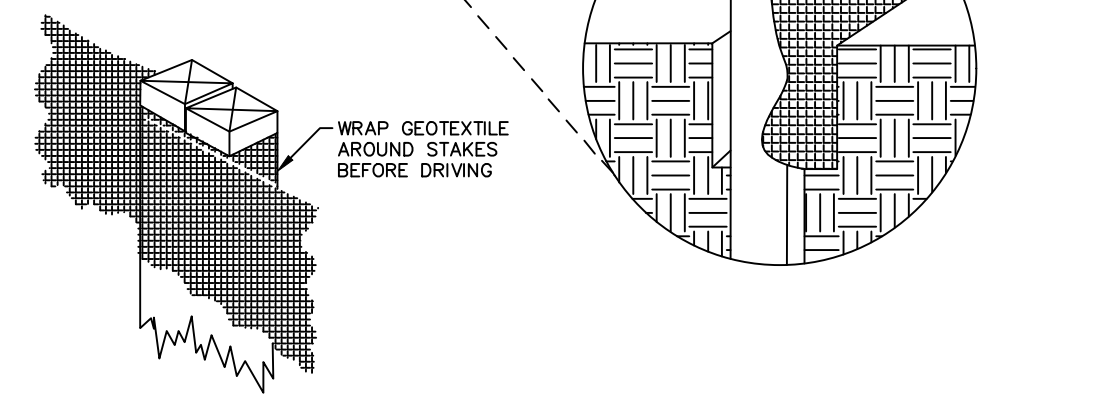
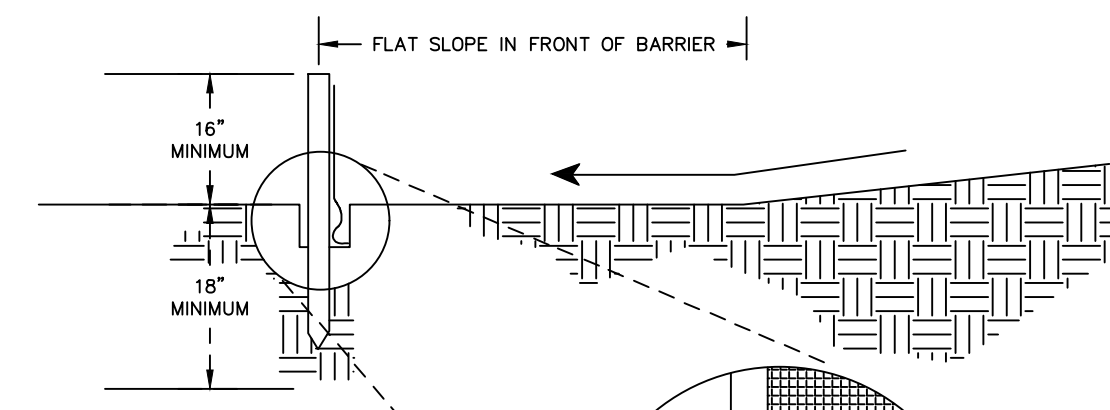
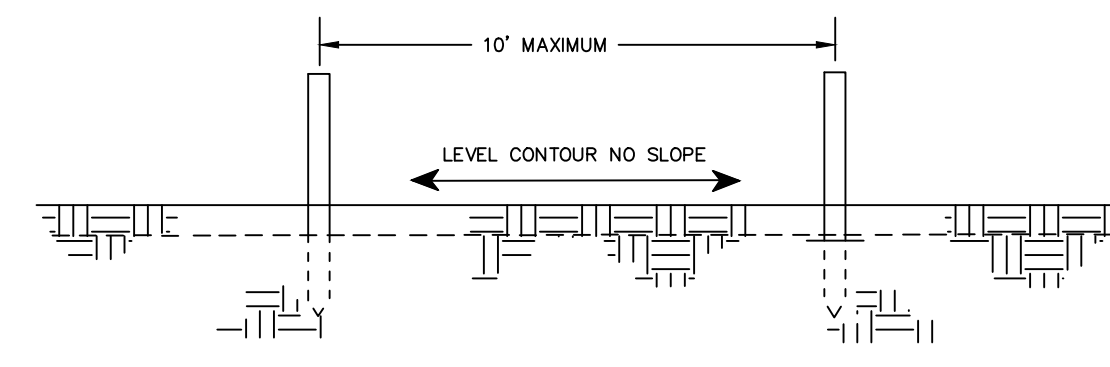
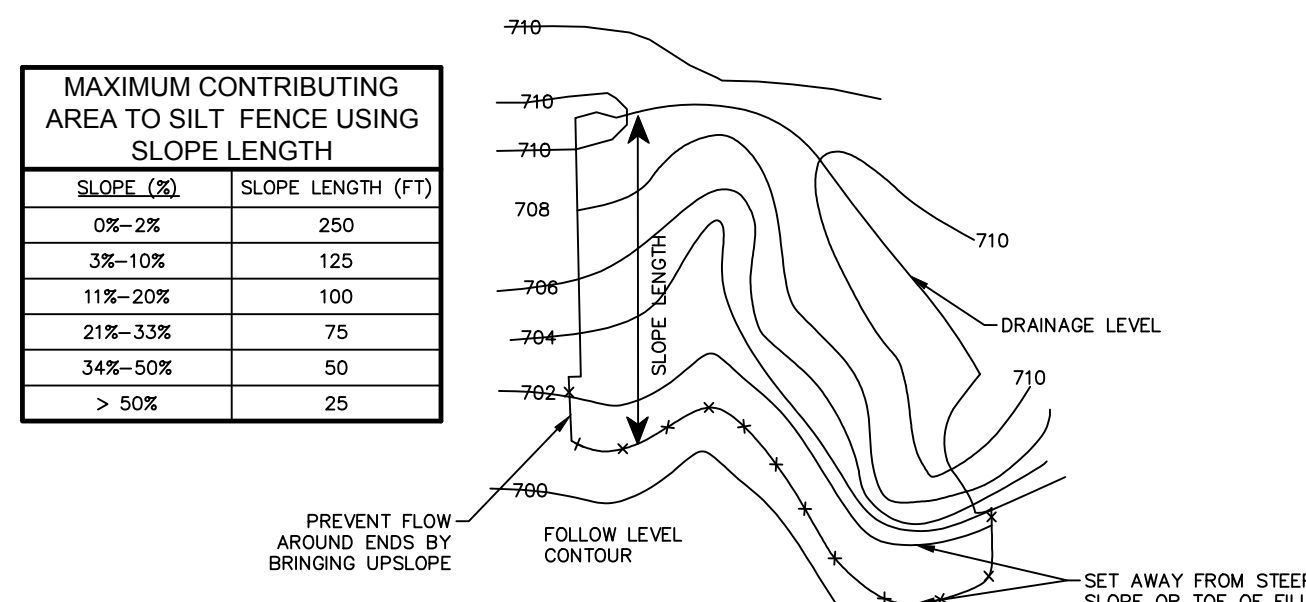
- INSTALLATION:
- CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
 - PLACE CONTINUOUS LENGTHS OF SILT FENCE ALONG A CONSISTENT CONTOUR SO AS TO PREVENT THE CONCENTRATION OF RUNOFF AT LOW POINTS IN THE FENCE.
 - TO PREVENT FLOW AROUND ENDS, EXTEND EACH END OF A CONTINUOUS LENGTH OF SILT FENCE UPSLOPE (90 DEGREES TO THE CONTOUR) SO THE ENDS ARE AT A HIGHER ELEVATION OR 20-FEET IN HORIZONTAL DISTANCE, WHICHEVER IS ACHIEVED FIRST.
 - AT A MINIMUM, THE BOTTOM 8-INCHES OF THE SILT FENCE MATERIAL MUST BE PLACED IN A TRENCH (MINIMUM 6-INCH DEPTH) THAT IS CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE. THE TRENCH SHALL NOT BE CONSTRUCTED WITH THE TILT OF A BULLDOZER.
 - THE TRENCH MUST BE BACKFILLED WITH SOIL AND PROPERLY COMPACTED. WHEN AGGRESSIVELY PULLED UPWARD BETWEEN TWO CONSECUTIVE STAKES, THE STAKES SHOULD NOT PULL OUT OF THE GROUND.
 - STAKES (MIN. 32" LENGTH, 2"x2" HARDWOOD OF GOOD QUALITY) MUST BE PLACED ON THE DOWNSLOPE SIDE OF THE SILT FENCE MATERIAL.
 - SILT FENCE MATERIAL MUST BE PULLED TIGHT BETWEEN CONSECUTIVE STAKES TO ENSURE THE FENCE DOES NOT SAG.
 - WHEN IT IS NECESSARY TO JOIN TWO SEPARATE LENGTHS OF SILT FENCE TO FORM A CONTINUOUS RUN, THE END OF TWO SEPARATE LENGTHS MUST BE JOINED TOGETHER BY FIRST OVERLAPPING THEM AND THEN TWISTING THEM TOGETHER AT LEAST 180 DEGREES PRIOR TO DRIVING THE STAKES INTO THE GROUND.

- MAINTENANCE:
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE SILT FENCE VIA SURFACE RUNOFF.
 - REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
 - AREAS WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT).

- REMOVAL:
- PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF SITE.
 - RE-GRADE AREA WHERE SEDIMENT HAS ACCUMULATED AS NECESSARY AND NECESSARY AND ESTABLISH VEGETATION IN ANY RESULTING DISTURBED AREAS.

ALTERNATIVE MANUFACTURED YARD DRAIN INLET PROTECTION PRODUCTS ARE AVAILABLE AND CAN BE USED, SUBJECT TO PRIOR APPROVAL BY THE COMMUNITY ENGINEER.

MAXIMUM CONTRIBUTING AREA TO SILT FENCE USING SLOPE LENGTH	
SLOPE (%)	SLOPE LENGTH (FT)
0%-2%	250
3%-10%	125
11%-20%	100
21%-33%	75
34%-50%	50
> 50%	25

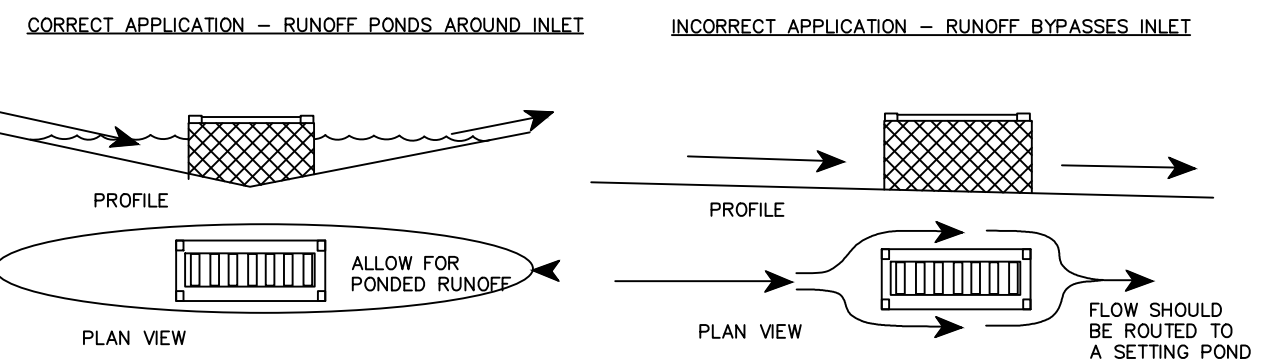
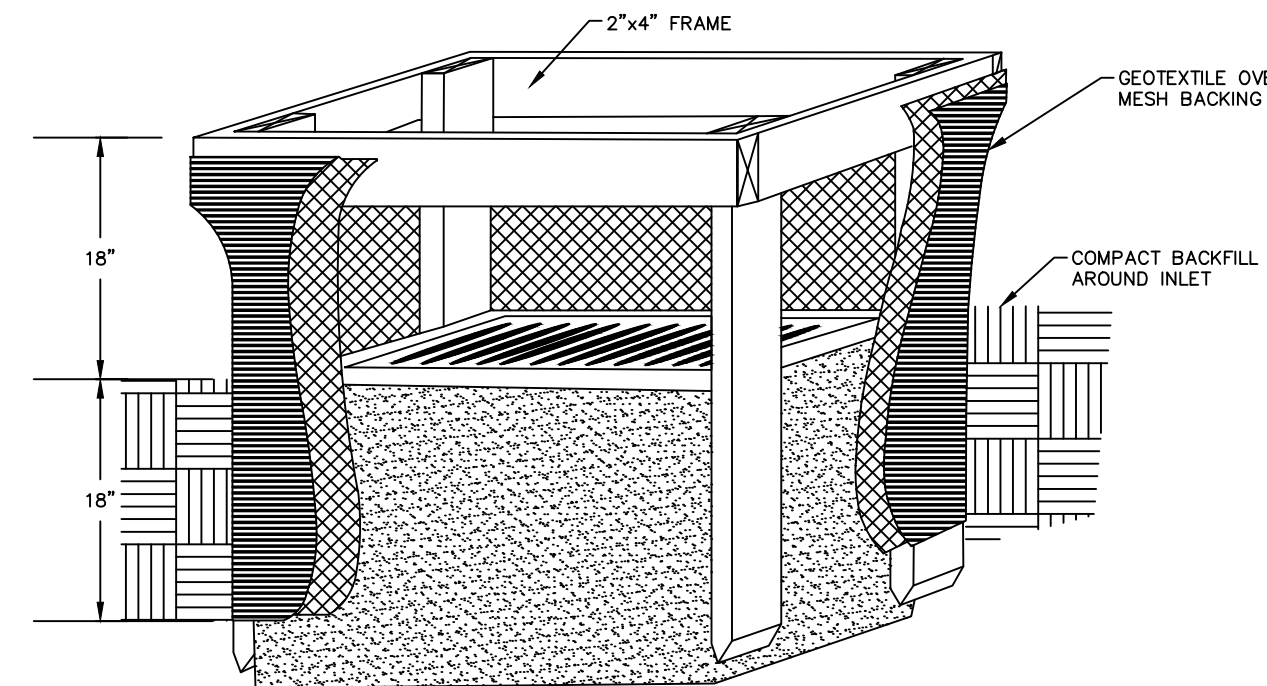


YARD DRAIN INLET PROTECTION

- INSTALLATION:
- CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
 - CONSTRUCT WOODEN FRAME FROM 2"x2" LUMBER. DRIVE POSTS 1-FOOT INTO THE GROUND AT EACH CORNER DIRECTLY AGAINST THE CONCRETE BOX AND ASSEMBLE THE TOP FRAME WITH AN OVERLAP JOINT SHOWN BELOW. THE TOP FRAME SHALL BE SET AT AN ELEVATION THAT DOES NOT CAUSE PONDED WATER TO BACKUP INTO UNWANTED AREAS.
 - THE WIRE MESH AND GEOTEXTILE SHALL BE TIGHTLY STRETCHED AND FASTENED TO THE FRAME.
 - THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
 - BACKFILL SHALL BE PLACED IN THE 18-INCH TRENCH AROUND THE INLET IN COMPACTED 6-INCH LAYERS UNTIL THE ELEVATION OF THE TOP OF THE GRATE IS REACHED.

- MAINTENANCE:
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE PRACTICE. THE REMOVED SEDIMENT MUST BE STABILIZED AND SHOULD NOT BE PLACED WHERE IT COULD EVENTUALLY BE CONVEYED BACK TO THE INLET VIA SURFACE RUNOFF.
 - REPLACE AND PROPERLY DISPOSE OF DAMAGED SILT FENCE MATERIAL.
 - AREAS WHERE SURFACE FLOW HAS CUT UNDER THE SILT FENCE MATERIAL WITHIN THE TRENCH SHALL BE RE-COMPACTED WITH APPROPRIATE MATERIAL (I.E. HIGH CLAY CONTENT).

- REMOVAL:
- PULL OUT ALL SILT FENCE MATERIAL AND STAKES AND PROPERLY DISPOSE OF OFF SITE.
 - RE-GRADE AREA WHERE SEDIMENT HAS ACCUMULATED AS NECESSARY AND NECESSARY AND ESTABLISH VEGETATION IN ANY RESULTING DISTURBED AREAS.



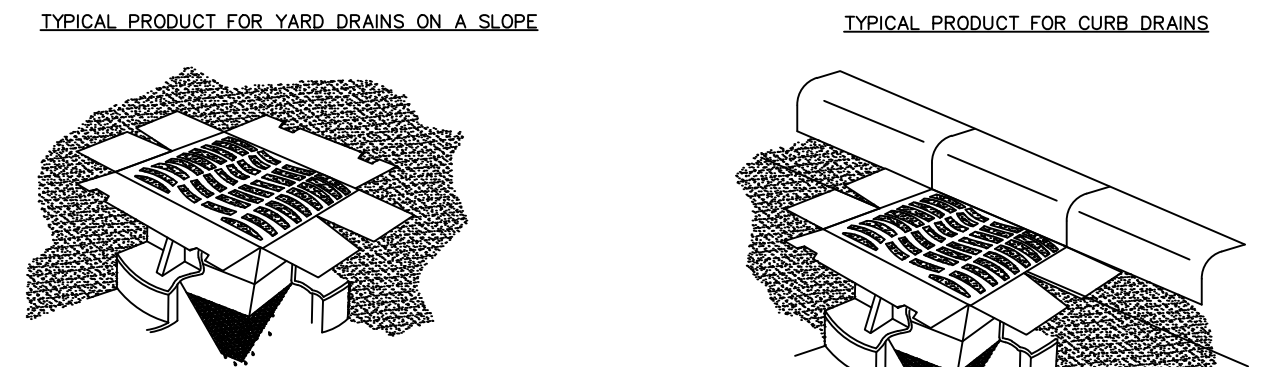
INLET PROTECTION FOR CURB DRAINS AND YARD DRAINS SITUATED ON A SLOPE

- INSTALLATION:
- REMOVE THE GRATE FROM THE CATCH BASIN.
 - INSERT THE FILTRATION SACK INTO OPENING OF CATCH BASIN. SOME PRODUCTS REQUIRE THE FILTRATION SACK TO BE SLIPPED OVER THE CATCH BASIN GRATE FIRST.
 - REINSERT GRATE INTO CATCH BASIN WHILE ENSURING ALL NECESSARY SUPPORT STRAPS REMAIN OUTSIDE THE CATCH BASIN ON TOP OF THE SURFACE. IF NECESSARY, INSERT REBAR THROUGH THE SUPPORT AND ENSURE THE FILTRATION SACK DOES NOT FALL INTO CATCH BASIN AS IT FILLS WITH SEDIMENT.

- MAINTENANCE:
- THE FILTRATION SACK MUST BE EMPTIED WHEN IT IS 1/3 FULL OF SEDIMENT AND DEBRIS. SACKS ARE TYPICALLY MANUFACTURED WITH LIFTING STRAPS AND DUMPING STRAPS.
 - TO EMPTY THE SACK, REMOVE THE GRATE, LIFT THE SACK OUT OF THE CATCH BASIN VIA THE LIFTING STRAPS AND HAUL IT TO AN APPROPRIATE AREA. TURN IT INSIDE OUT WITH THE DUMPING STRAPS PROVIDED.
 - THE FILTRATION SACK MUST BE REPLACED IF IT IS TORN, OTHERWISE THE SAME SACK CAN BE USED MULTIPLE TIMES.

- REMOVAL:
- PULL OUT ALL INLET PROTECTION MATERIAL AND PROPERLY DISPOSE OFF-SITE.
 - RE-GRADE AREA WHERE ACCUMULATED SEDIMENT HAS BEEN PLACED AS NECESSARY AND ESTABLISH VEGETATION ON ANY RESULTING DISTURBED AREAS.

THE FOLLOWING DIAGRAMS PROVIDE A GENERAL IDEA OF HOW TO INSTALL AND MAINTAIN A VARIETY OF MANUFACTURED STORM DRAIN INLET PROTECTION PRACTICES. BE SURE TO IMPLEMENT FILTRATION SACKS THAT ARE APPROPRIATE FOR EITHER CURB INLETS OR FOR YARD DRAIN INLETS. MANUFACTURER'S SPECIFICATIONS FOR THE PRODUCT OF CHOICE SHOULD BE FOLLOWED.



CONCRETE WASHOUT AREAS

- INSTALLATION:
- CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW TO STREAMS, DITCHES, STORM DRAINS, OR ANY OTHER WATER CONVEYANCE AND WASHOUT PITS SHALL BE SITUATED A MINIMUM OF FIFTY (50) FEET FROM THEM.
 - FIELD TILE OR OTHER SUBSURFACE DRAINAGE STRUCTURE WITHIN 10 FT. OF THE SUMP SHALL BE CUT AND PLUGGED.
 - ENSURE A STABLE PATH IS PROVIDED FOR CONCRETE TRUCKS TO REACH THE WASHOUT AREA.
 - A HIGHLY VISIBLE SIGN THAT READS "CONCRETE WASHOUT AREA" SHALL BE ERECTED ADJACENT TO THE WASHOUT PIT.
 - SURFACE RUNOFF GENERATED FROM UPSLOPE AREAS SHALL BE DIVERTED AWAY FROM BELOW-GRADE WASHOUT PITS SO AS NOT TO FLOW INTO THEM.
 - A SINGLE CENTRALIZED WASHOUT AREA MAY BE UTILIZED FOR MULTIPLE SUBLOTS.

- MAINTENANCE:
- THE WASHOUT PIT MUST BE INSPECTED FREQUENTLY TO ENSURE THE LINER IS INTACT.
 - ONCE 75% OF THE ORIGINAL VOLUME OF THE WASHOUT PIT IS FILLED OR IF THE LINER IS TORN, THE MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF ONCE IT IS COMPLETELY HARDENED. ONCE THE HARDENED CONCRETE IS REMOVED, THE LINER MUST BE REPLACED (IF TORN). A NEW PIT MUST BE CONSTRUCTED IF THE ORIGINAL STRUCTURE IS NO LONGER SUITABLE.

- REMOVAL:
- ONCE THE WASHOUT PIT IS NO LONGER NEEDED, ENSURE ALL WASHOUT MATERIAL HAS COMPLETELY HARDENED, THEN REMOVE AND PROPERLY DISPOSE OF ALL MATERIALS. IF STRAW BALES WERE USED, THEY CAN BE SPREAD AS MULCH.
 - PRE-FABRICATED CONTAINERS SPECIFICALLY DESIGNED FOR CONCRETE WASHOUT COLLECTION MAY BE USED SUBJECT TO PRIOR APPROVAL BY THE COMMUNITY ENGINEER. FOLLOW THE MANUFACTURER'S SUGGESTIONS FOR INSTALLATION, MAINTENANCE AND REMOVAL PROCEDURES.

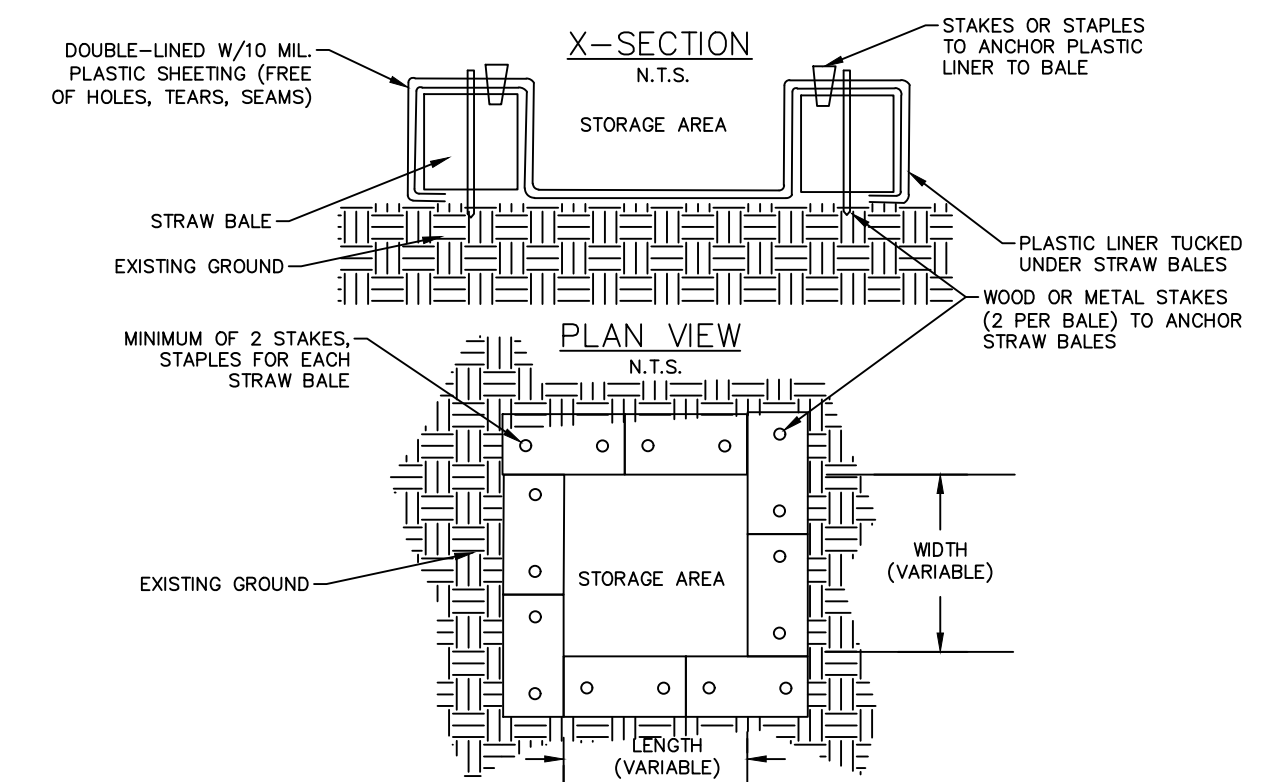
SIZING OF CONCRETE WASHOUT PITS

BELOW-GRADE (3-FT DEPTH)		
# OF CONCRETE TRUCKS EXPECTED TO BE WASHED OUT ON SITE	WIDTH (FT)	LENGTH (FT)
2-3	3	3
4-5	4	4
6-7	5	5
8-10	6	6
11-14	7	7

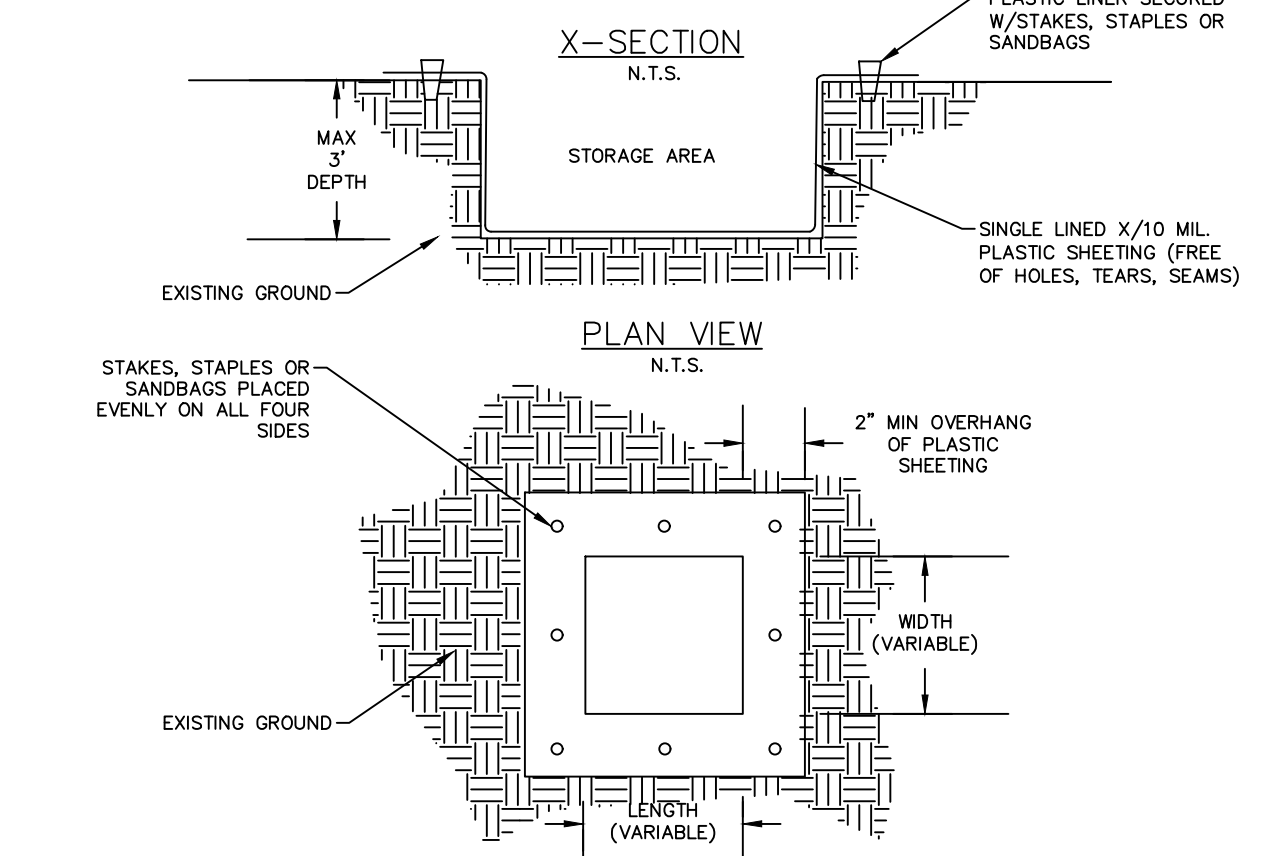
ABOVE-GRADE (2-FT DEPTH)		
# OF CONCRETE TRUCKS EXPECTED TO BE WASHED OUT ON SITE	WIDTH (FT)	LENGTH (FT)
2	3	3
3-4	4	4
5-6	5	5
7-8	6	6
9-11	7	7
12-15	8	8

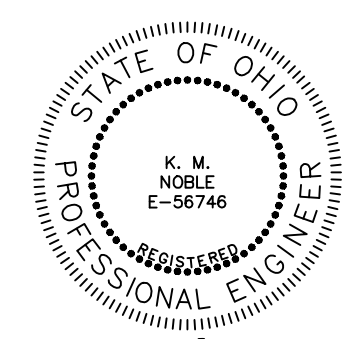
*FOR SMALL PROJECTS USING A MAXIMUM OF ONLY ONE TRUCKLOAD OF CONCRETE OR UTILIZING ON-SITE MIXING, RINSING OF EQUIPMENT MAY TAKE PLACE ON THE LOT WITHOUT A PIT, PROVIDED IT CAN BE DONE A MINIMUM OF FIFTY (50) FEET AWAY FROM ANY WATER CONVEYANCES.

ABOVE-GRADE CONCRETE WASHOUT PIT



BELOW-GRADE CONCRETE WASHOUT PIT



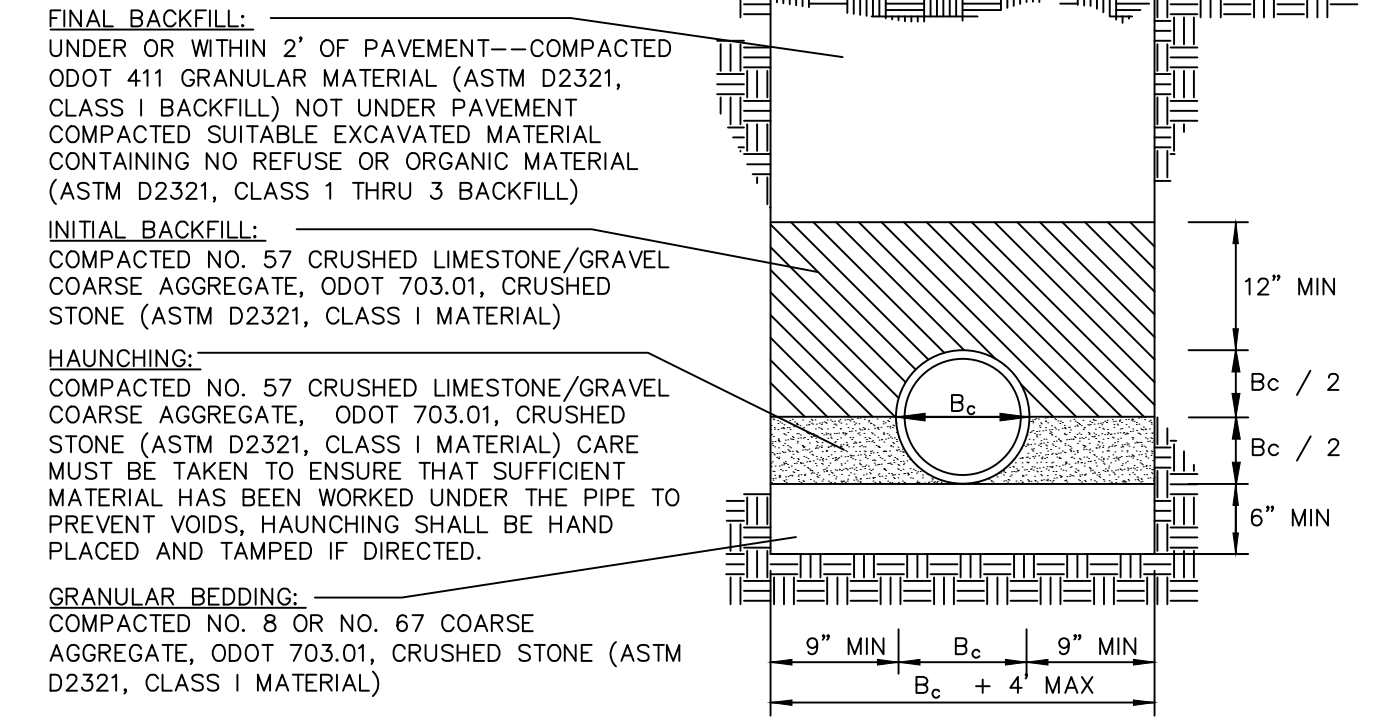


Kenn M. Noble 3/31/23
 SIGNATURE DATE

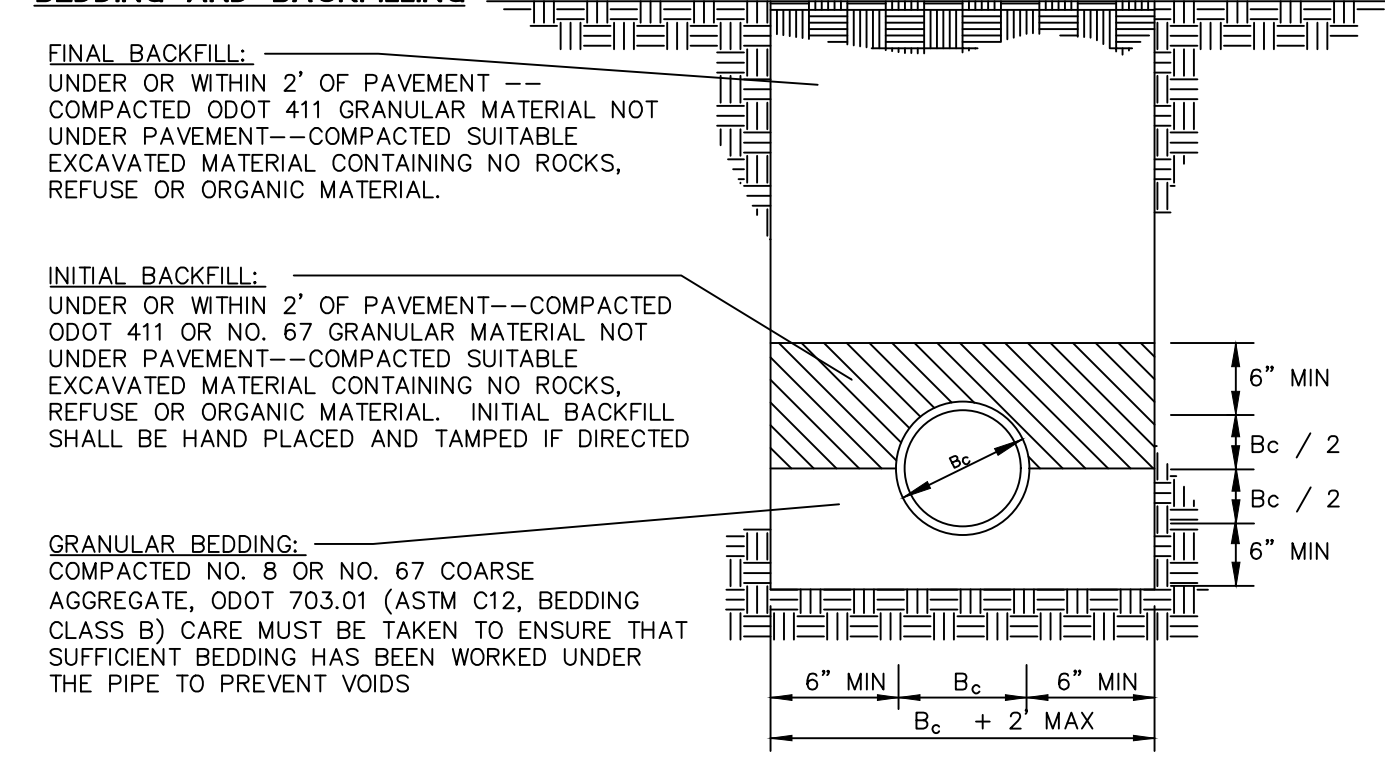
REVISIONS

**PVC OR PE PLASTIC PIPE
 TYPICAL TRENCH SECTION**

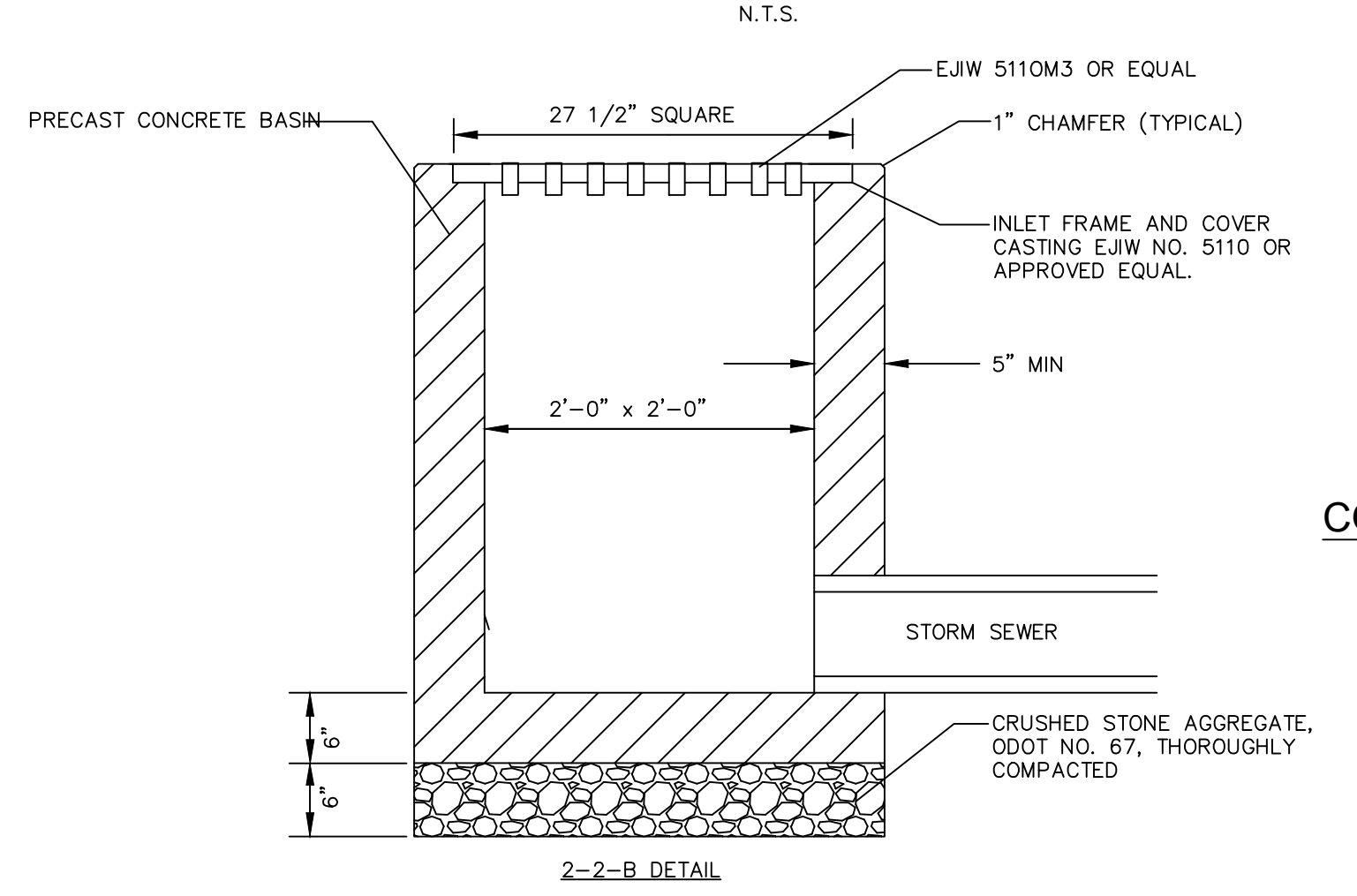
BEDDING AND BACKFILL



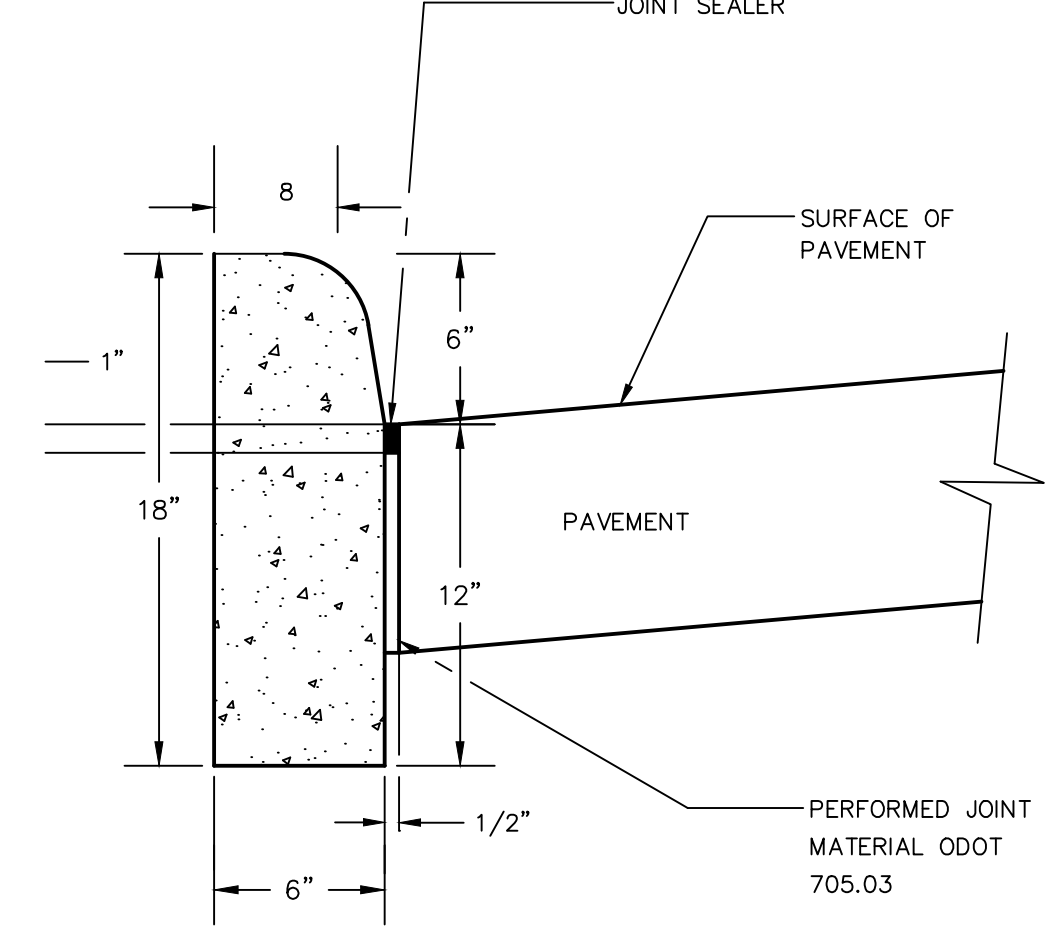
**CONCRETE PIPE
 TYPICAL TRENCH SECTION
 BEDDING AND BACKFILLING**



SANITARY/STORM SEWER TRENCH DETAILS



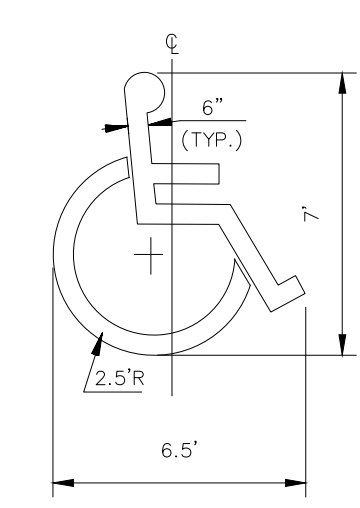
YARD BASIN



ODOT TYPE 6 CURB DETAIL

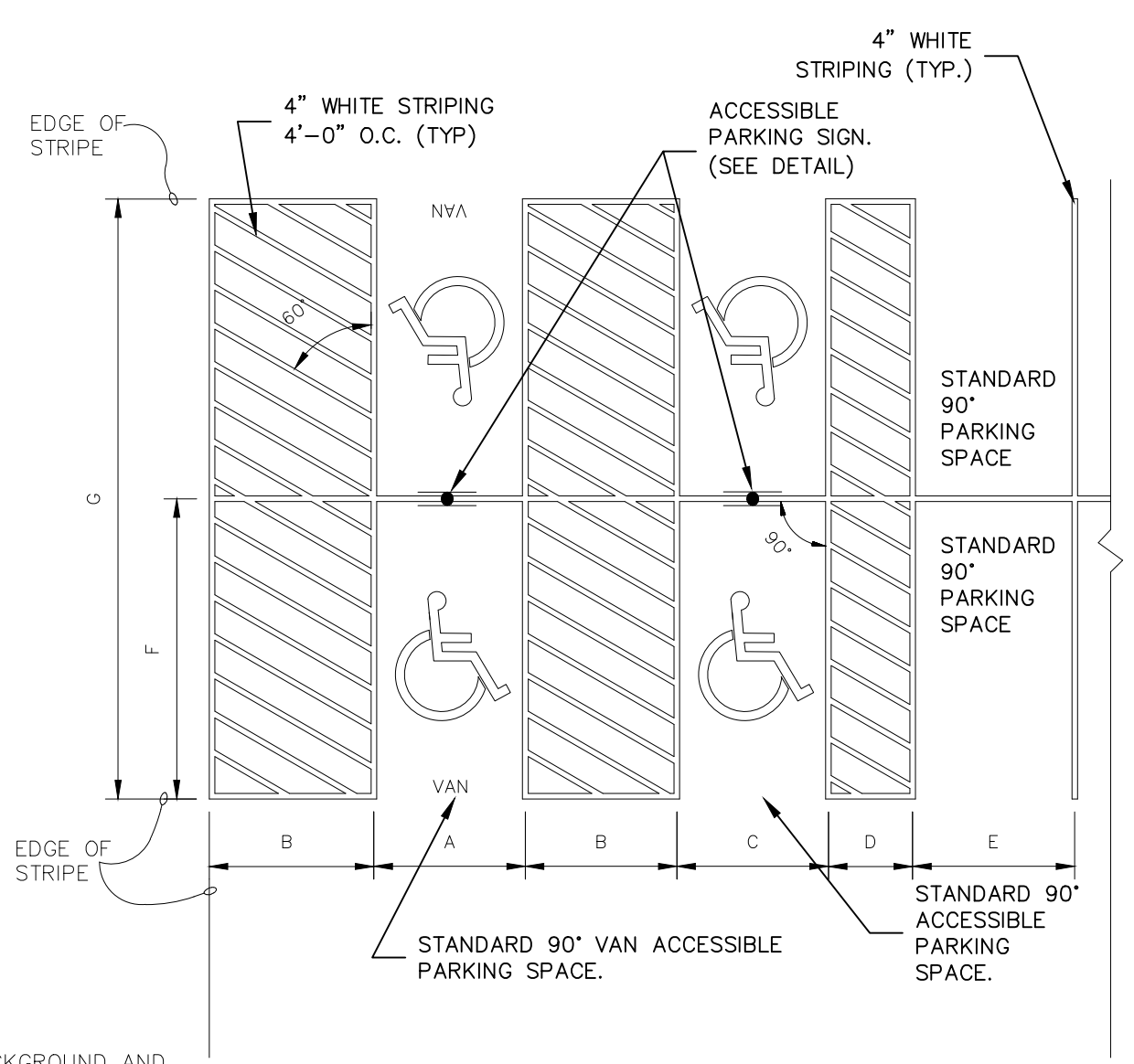
N.T.S.

ACCESSIBLE PARKING SYMBOL



N.T.S.

- LOCATE AT EDGE OF PARKING SPACE
- NOTES:
1. PAINT SYMBOL WHITE WITH BLUE BACKGROUND AND WHITE BORDER PER OMUTCD 2012 FIGURE 38-22.
 2. A MINIMUM 8' ACCESS AISLE SHALL BE PLACED ON PASSENGER SIDE OF VAN SPACES



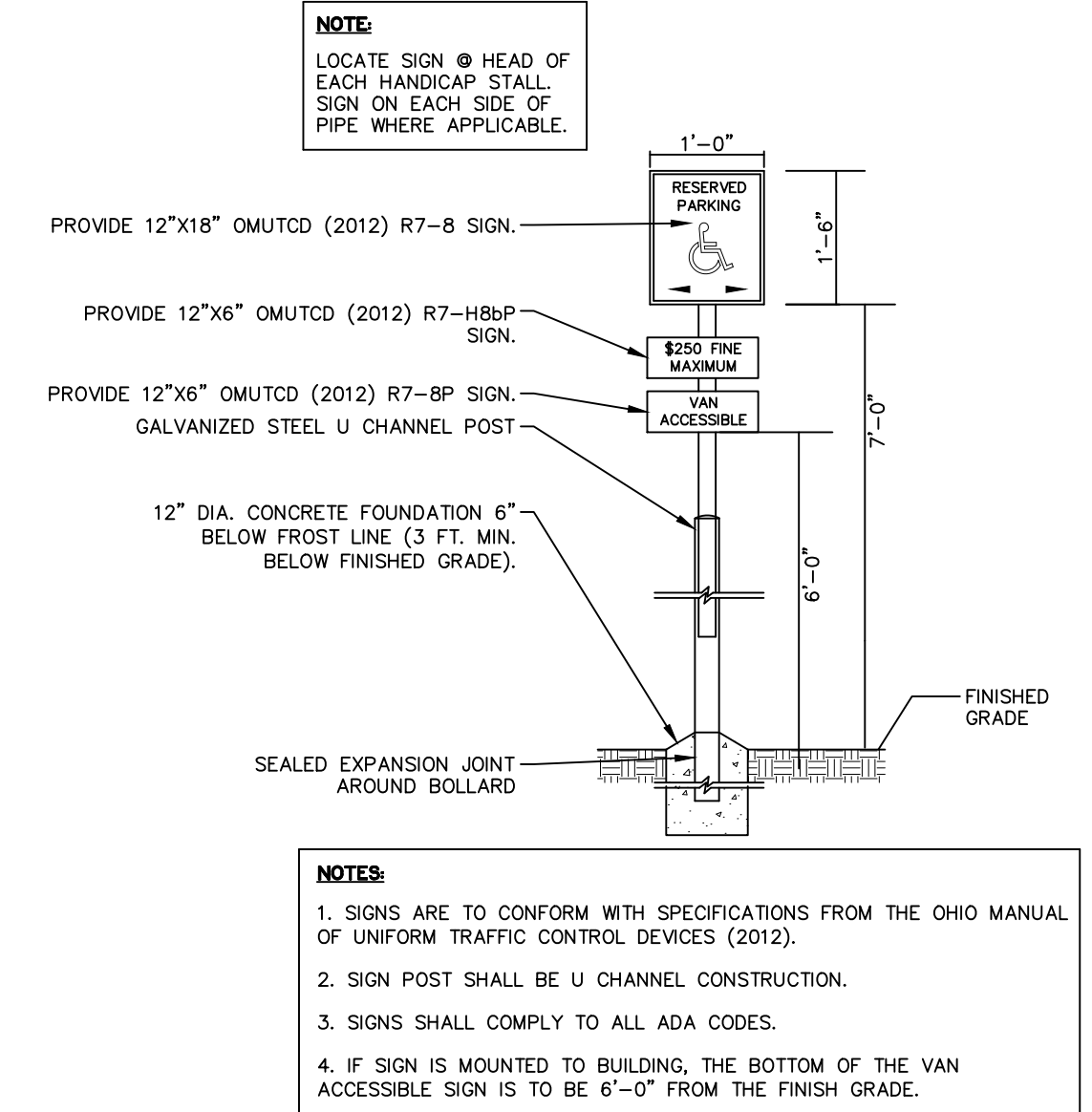
DIMENSION CHART

	STD. 90° VAN ACCESSIBLE	STD. 90° ACCESSIBLE	STD. 90°
A	8'		
B	8'		
C		8'	
D		5'	9'
E			9'
F	18'	18'	18'
G	36'	36'	36'

90° PARKING, ACCESSIBLE PARKING AND "VAN" ACCESSIBLE PARKING SPACE STRIPING

N.T.S.

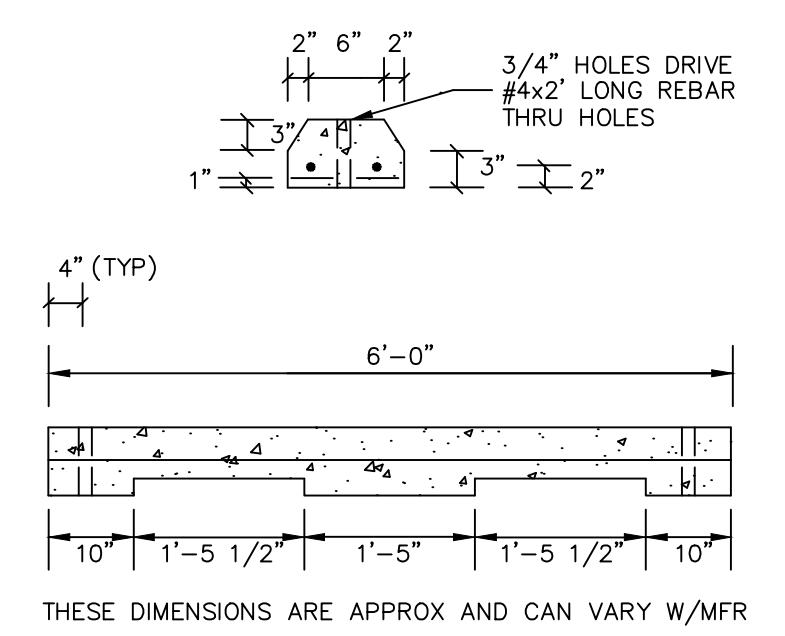
NOTE:
 LOCATE SIGN @ HEAD OF EACH HANDICAP STALL. SIGN ON EACH SIDE OF PIPE WHERE APPLICABLE.



- NOTES:
1. SIGNS ARE TO CONFORM WITH SPECIFICATIONS FROM THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2012).
 2. SIGN POST SHALL BE U CHANNEL CONSTRUCTION.
 3. SIGNS SHALL COMPLY TO ALL ADA CODES.
 4. IF SIGN IS MOUNTED TO BUILDING, THE BOTTOM OF THE VAN ACCESSIBLE SIGN IS TO BE 6'-0" FROM THE FINISH GRADE.

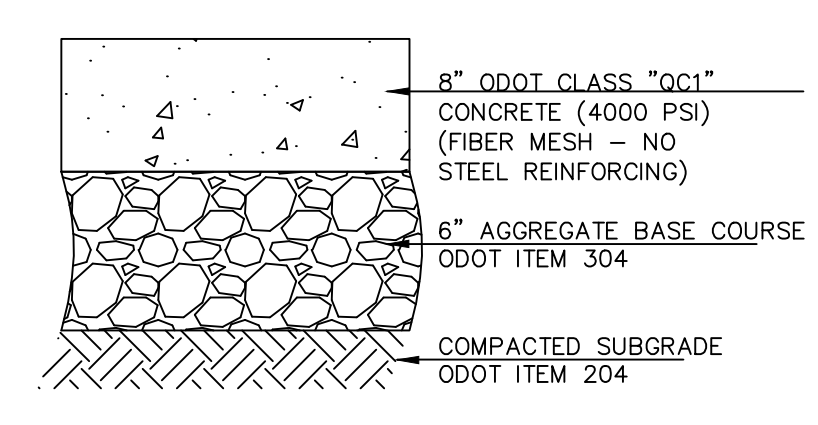
HANDICAPPED PARKING SIGN

N.T.S.



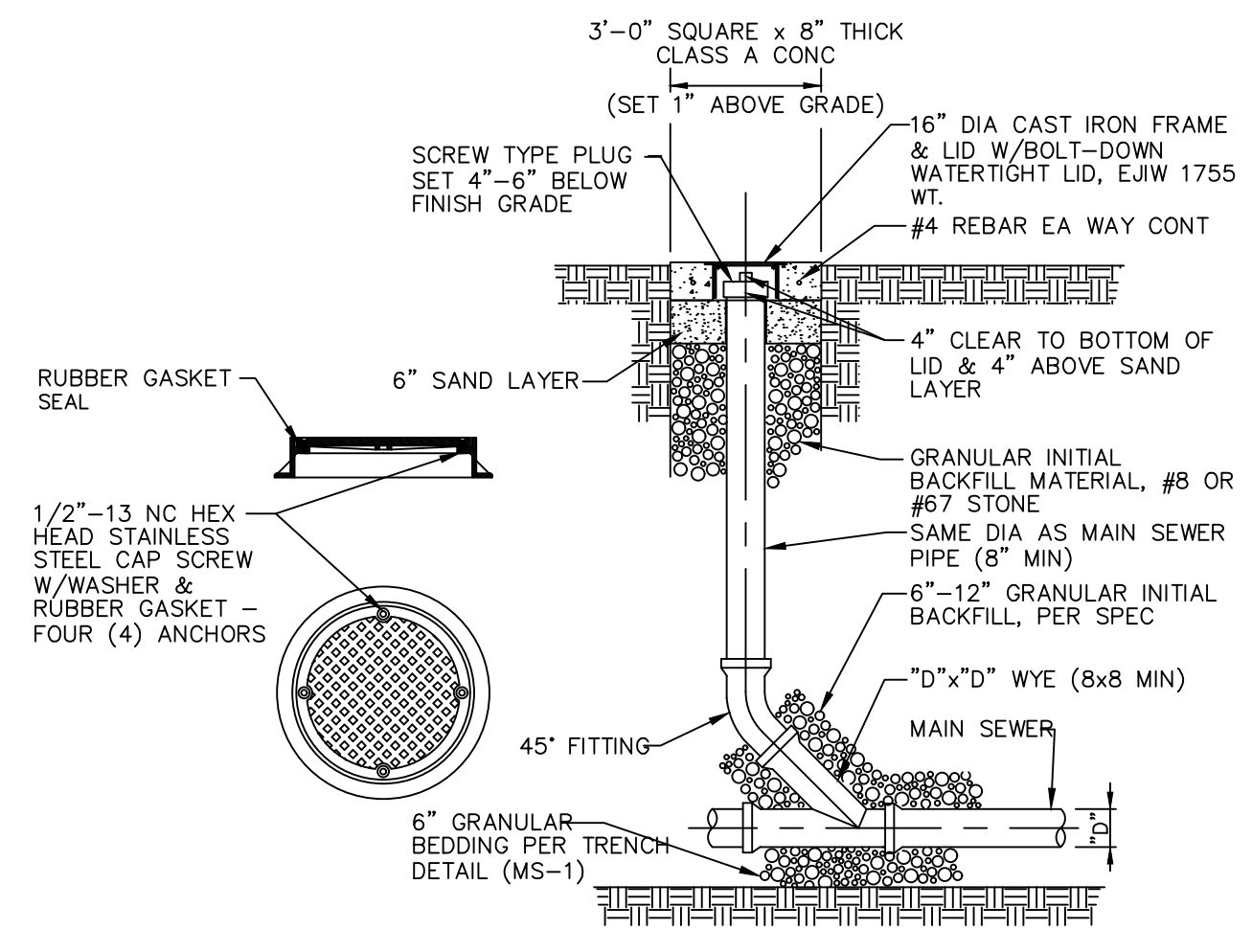
BUMPER GUARD DETAIL

N.T.S.



CONCRETE APRON DETAIL - RIGHT OF WAY

N.T.S.



CLEAN-OUT DETAIL

N.T.S.

SITE DETAILS
 GERMANTOWN CROSSING
 DAYTON OHIO



430 GRANT STREET
 AKRON, OH 44311
 PHONE: (330) 867-1093
 www.tcarchitects.com

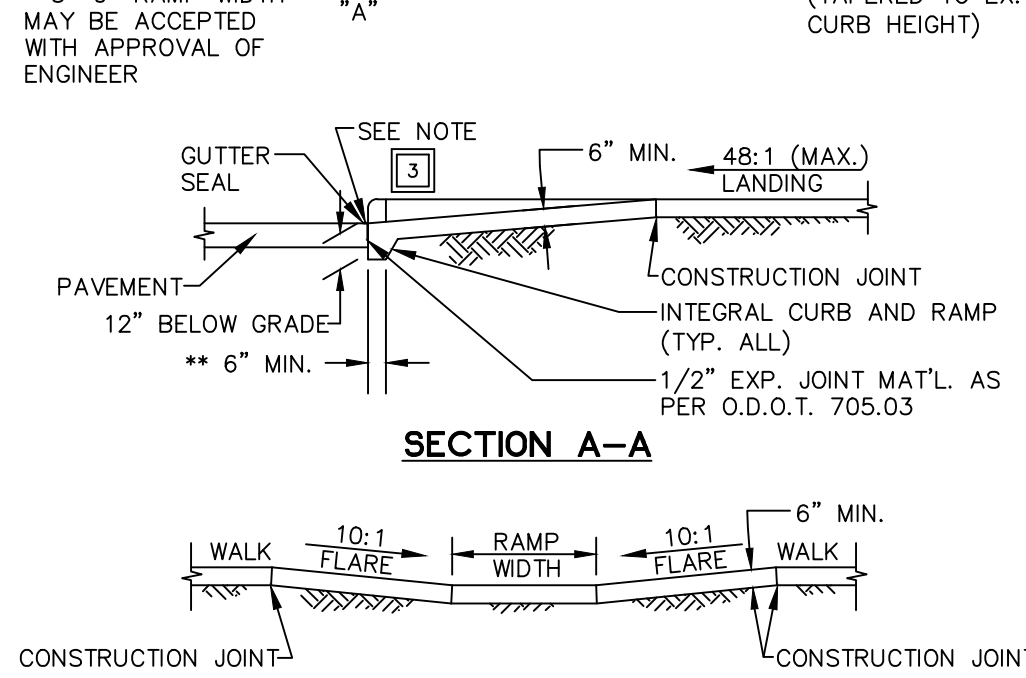
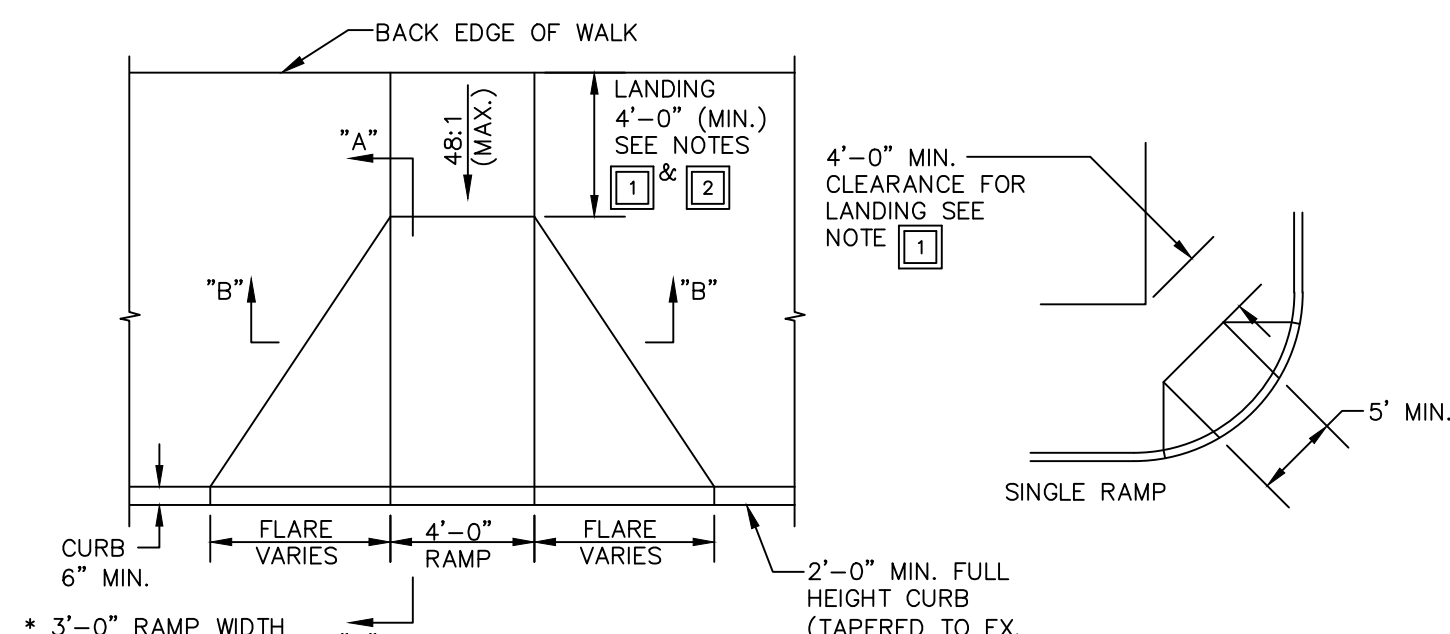
TURNING VISIONS
 INTO REALITY

03/31/2023
 DATE
 82A21
 PROJECT NUMBER

C600
 DRAWING NUMBER

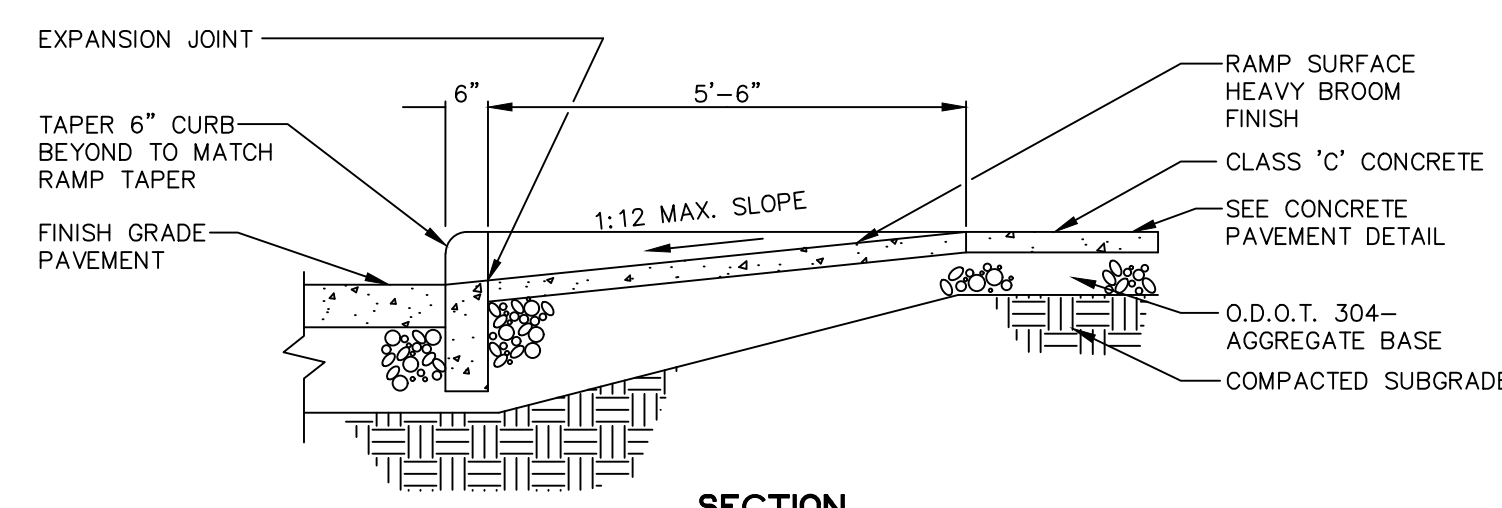
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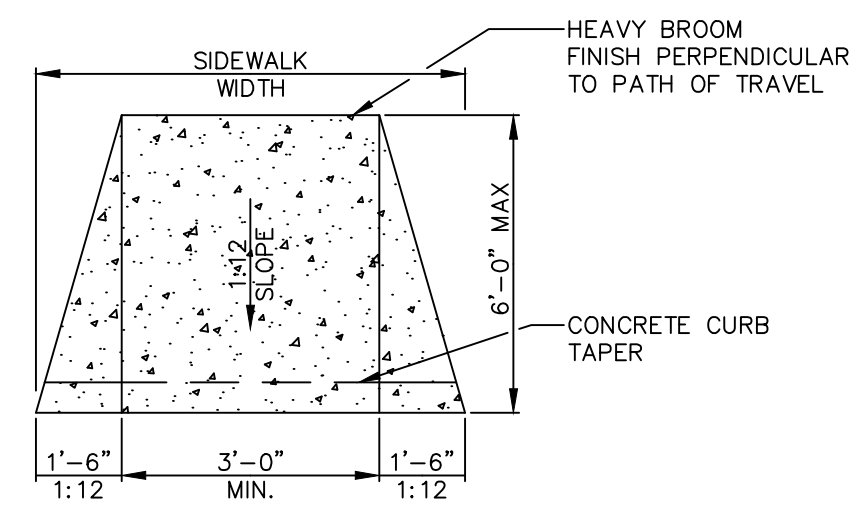


SECTION B-B
HANDICAP CURB / RAMP DETAIL
N.T.S.

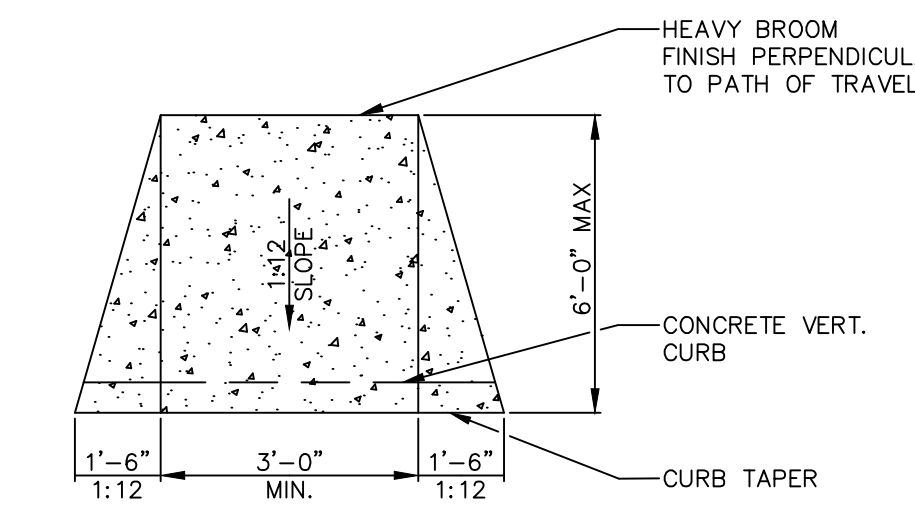
- NOTES:**
- MAY BE REDUCED TO 3'-0" IN EXISTING SIDEWALK IN THE LANDING IS UNCONSTRAINED ALONG THE BACK EDGE.
 - WHERE THE LANDING IS LESS THAN 4'-0", THE RAMP FLARE SHALL BE INCREASED TO 12:1.
 - THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.



SECTION

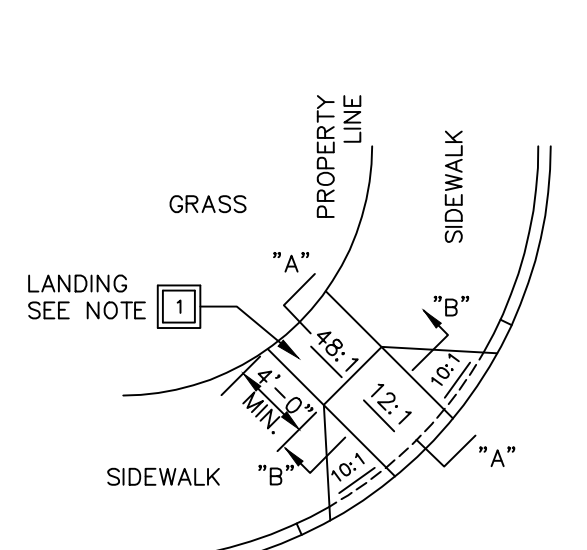


PLAN VIEW
TYPE A HANDICAP RAMP

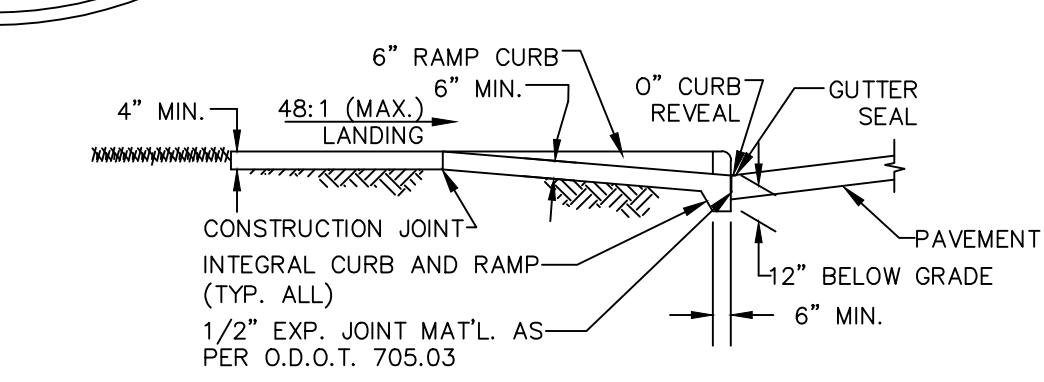


PLAN VIEW
TYPE B HANDICAP RAMP

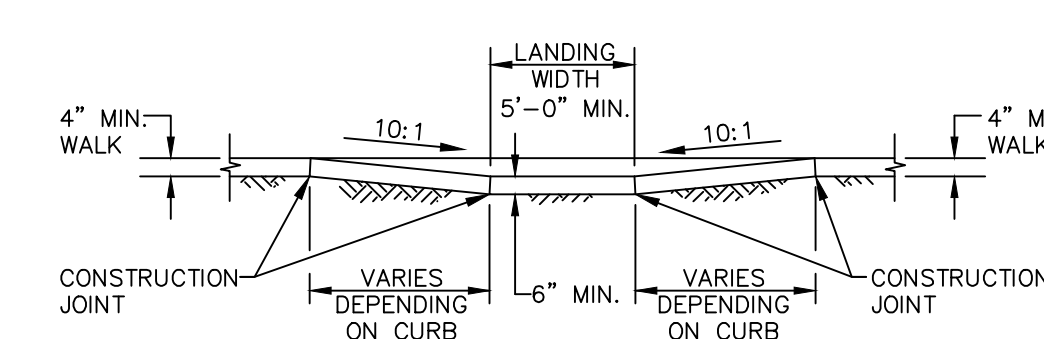
HANDICAP RAMP DETAIL
N.T.S.



- NOTES:**
- WHERE THE LANDING IS LESS THAN 4'-0", THE RAMP FLARE SHALL BE INCREASED TO 12:1.
 - SURFACE TEXTURE OF ALL RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES AS DIRECTED BY THE ENGINEER AND SHALL BE ROUGHER THAN ADJACENT WALK.
 - THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH THE EDGE OF THE ADJACENT PAVEMENT AND GUTTER LINE.



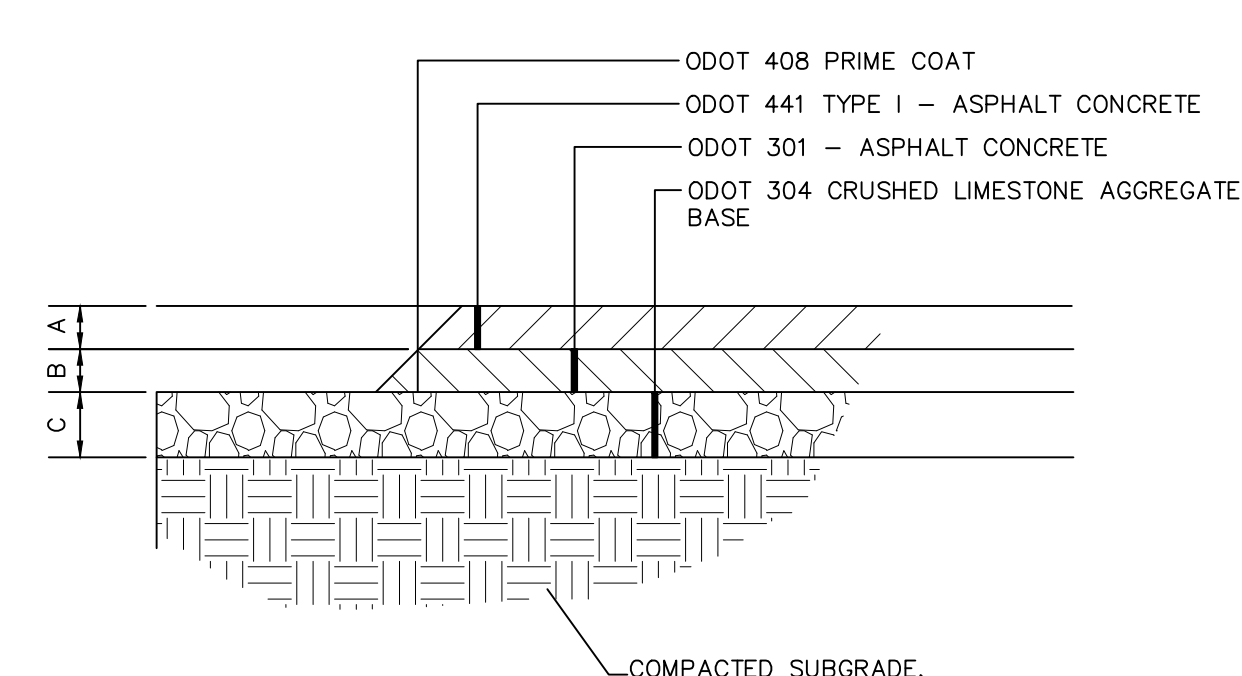
SECTION A-A



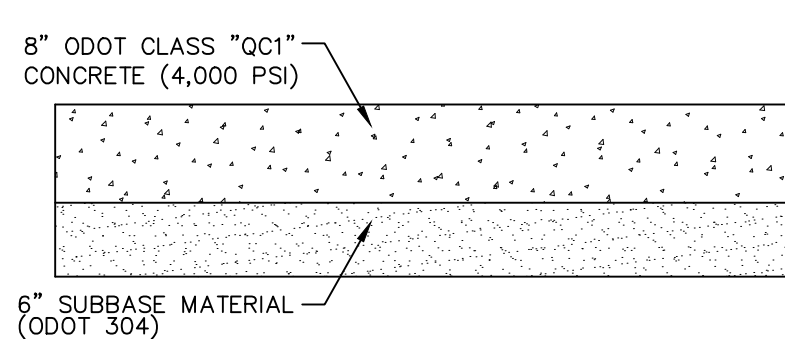
SECTION B-B

HANDICAP CURB / RAMP DETAIL
N.T.S.

LOCATION	A	B	C
STANDARD DUTY PAVING	1-1/2"	4"	6"

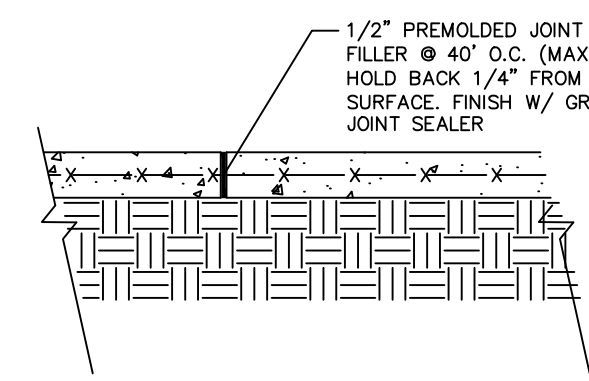


ASPHALT PAVEMENT DETAIL
N.T.S.

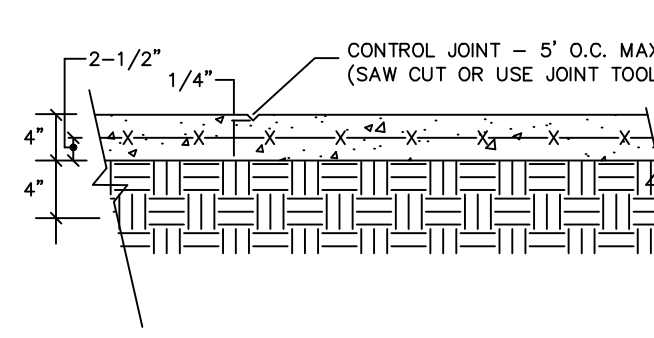


CONCRETE PAD/APRON DETAIL
N.T.S.

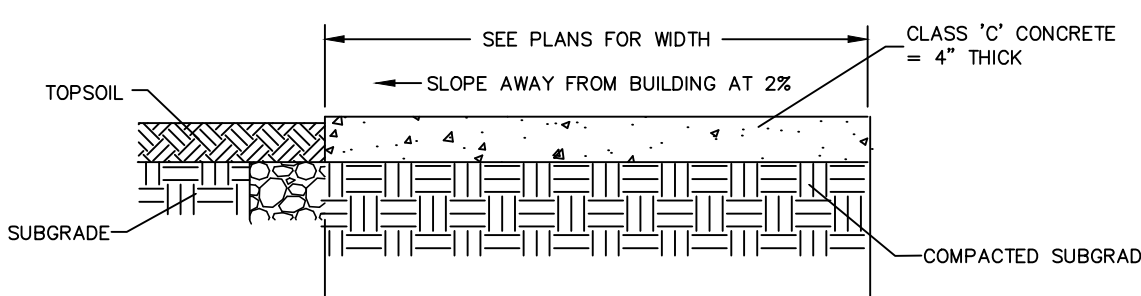
- NOTES:**
- 1/2" EXPANSION JOINT - 40' O.C. MAX. AND AT ALL CURBS, WALKS, WALLS AND OTHER FIXED OBJECTS.
 - CONTROL JOINT - 5' O.C. MAX.
 - CROSS SLOPE AT 1/4" PER FOOT MIN. TO DRAIN. SLOPE AWAY FROM BUILDINGS AND TOWARDS CURB LINES.
 - MEDIUM BROOM FINISH.
 - WHERE TOPSOIL IS INSTALLED ADJACENT TO THE SIDEWALK TOP OF COMPACTED TOPSOIL IS TO BE LEFT AT 0.5" BELOW TOP OF THE SIDEWALK.



EXPANSION JOINT

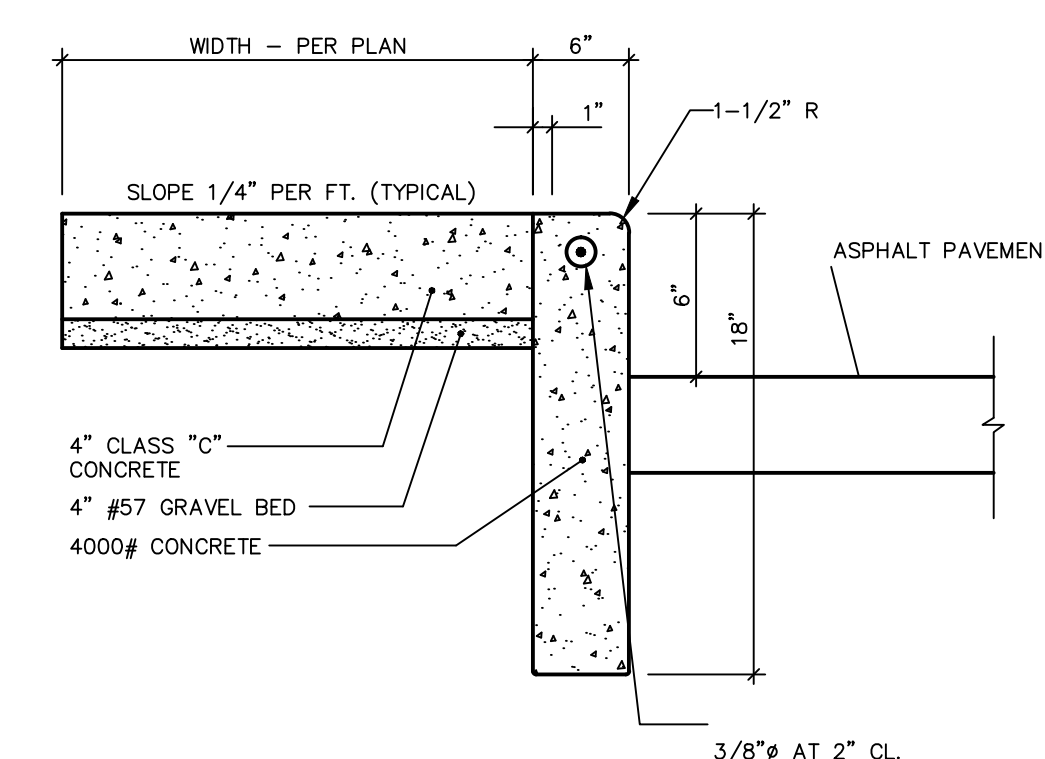


CONTROL JOINT

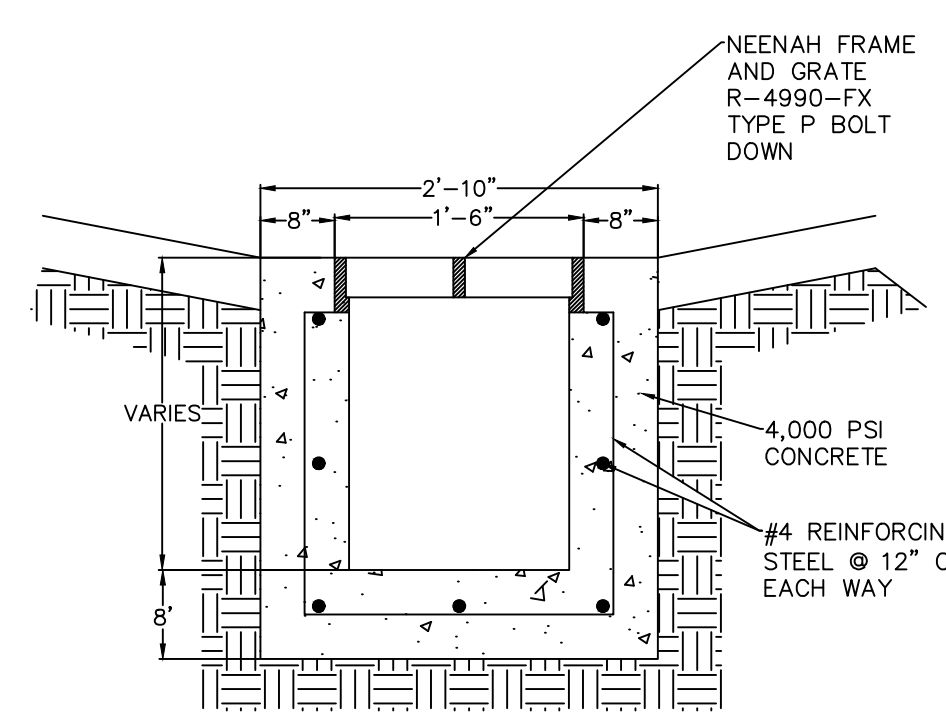


CONCRETE SIDEWALK CROSS SECTION

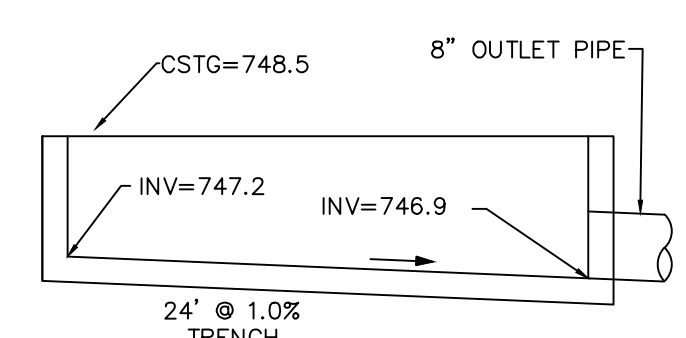
TYPICAL CONCRETE WALK DETAIL
N.T.S.



INTEGRATED CONCRETE SIDEWALK AND CONCRETE CURB
N.T.S.



CONCRETE TRENCH DRAIN - 'A'
N.T.S.



STATE OF OHIO
 PROFESSIONAL ENGINEER
 K. M. NOBLE
 E-56746
 Ken M. Noble 3/31/23
 SIGNATURE DATE

REVISIONS

SITE DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



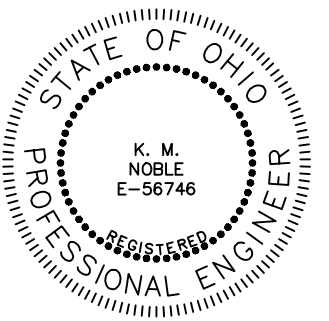
430 GRANT STREET
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 PHONE: (330) 867-1093
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TURNING VISIONS INTO REALITY

03/31/2023
 DATE
 82A21
 PROJECT NUMBER

C601
 DRAWING NUMBER

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Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

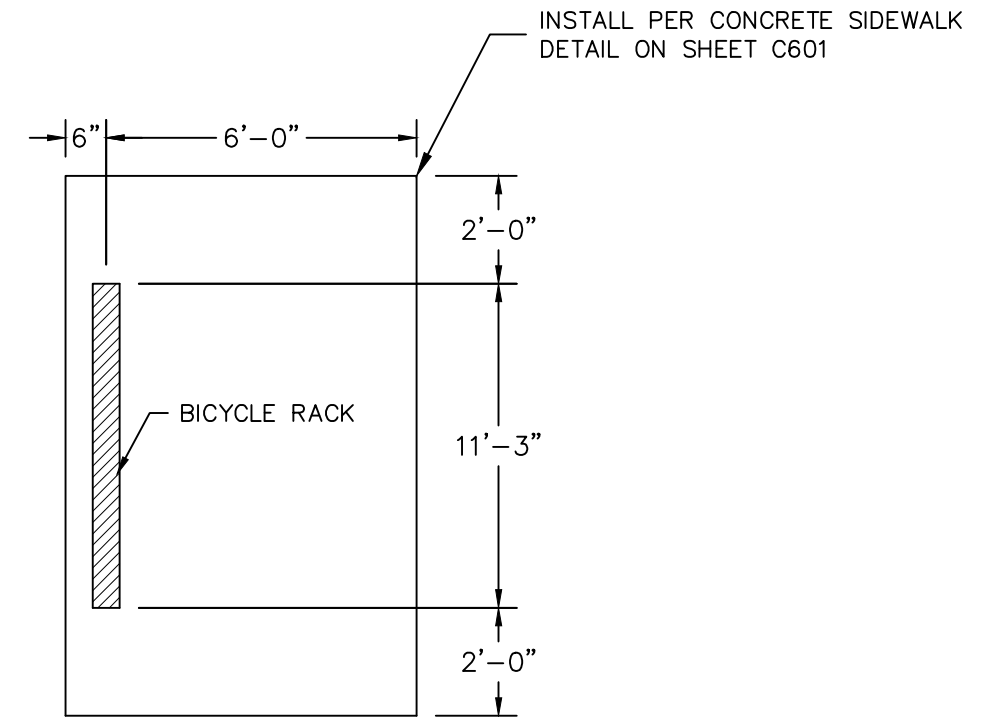
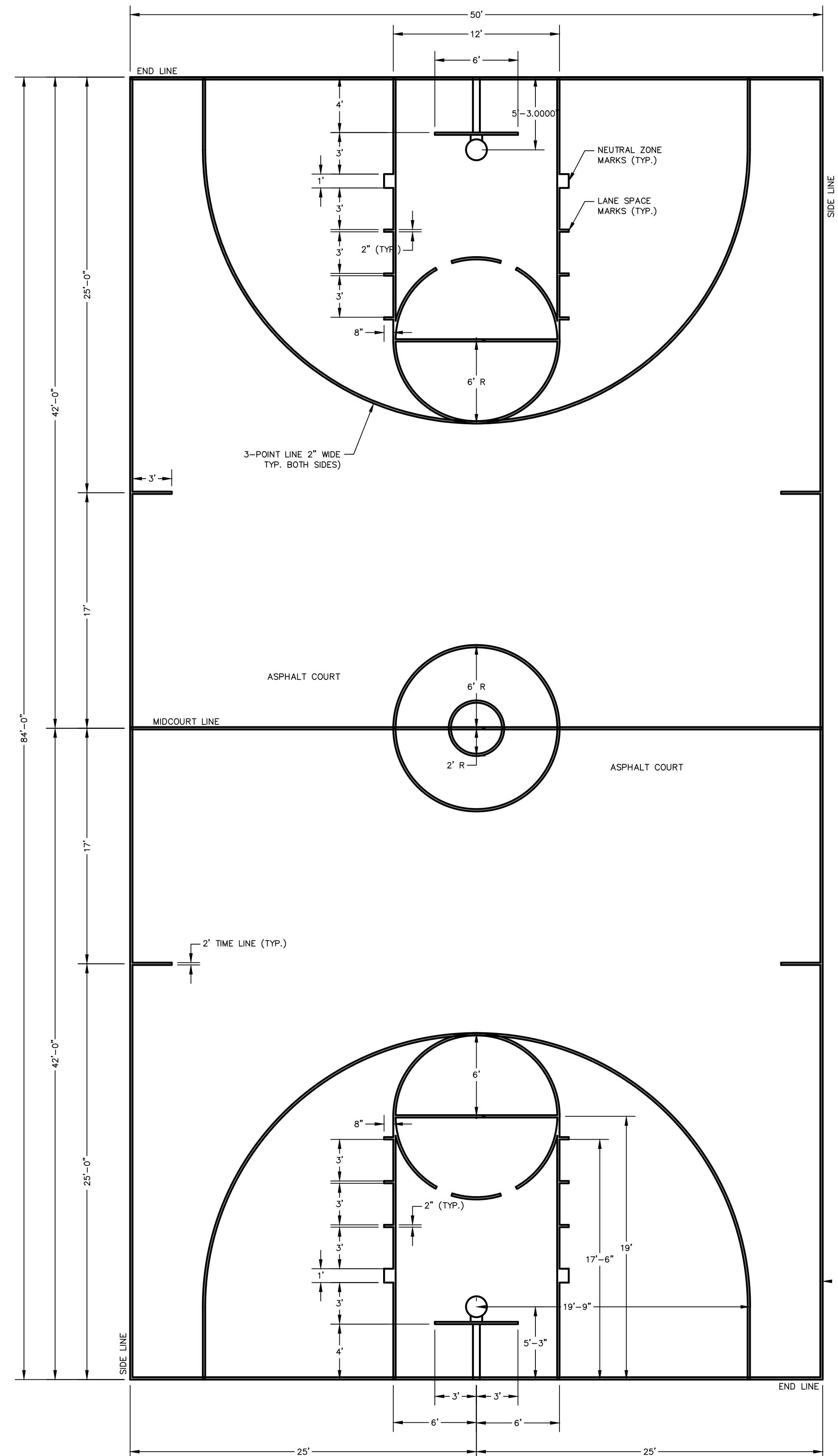
SITE DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



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**TURNING VISIONS
INTO REALITY**

03/31/2023
DATE
82A21
PROJECT NUMBER
C602
DRAWING NUMBER



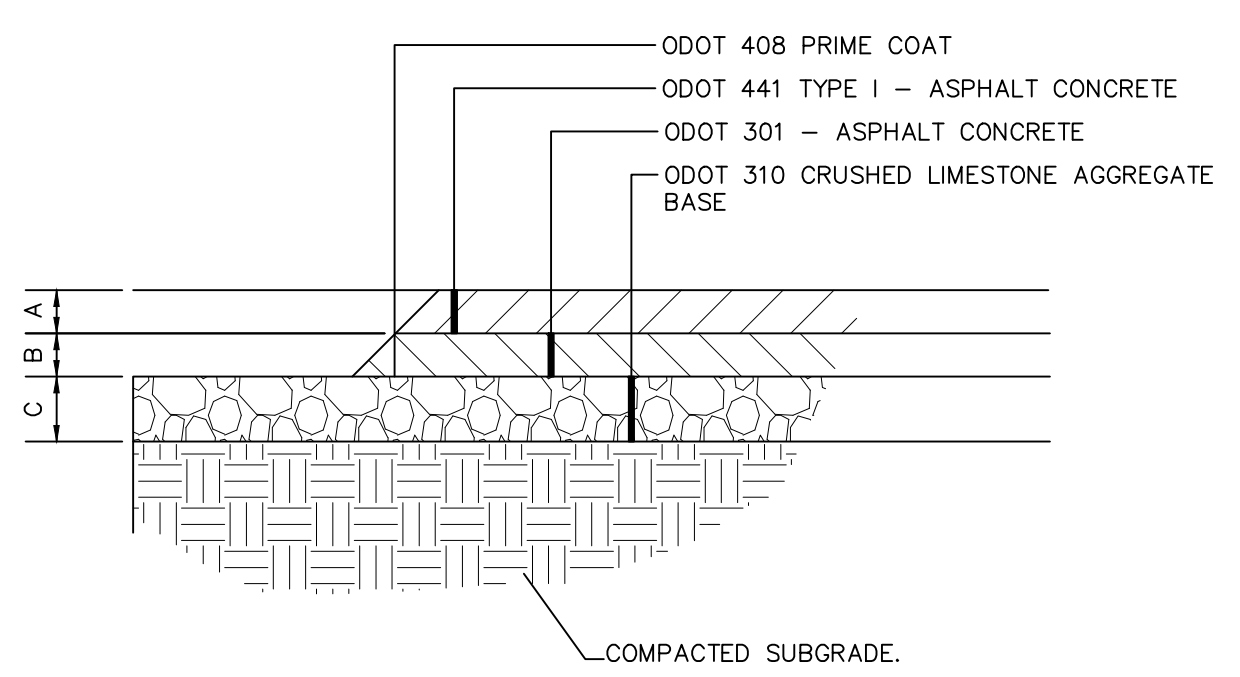
NOTES:

THE BICYCLE RACK SHALL BE THE ORIGINAL CYCLOOPS AS MANUFACTURED BY COLUMBIA CASCADE OR EQUAL AND SHALL BE DESIGNED FOR 13 BICYCLES.

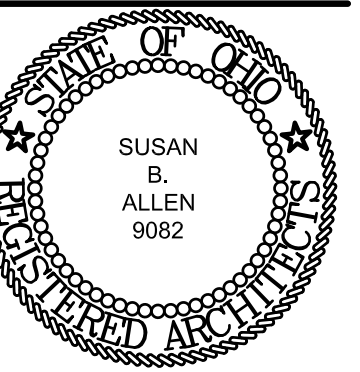
ALL STANDARD UNITS SHALL BE FROM HEAVY-DUTY STEEL MEETING ASTM A53 SCHEDULE 40 (2.375" OD x .154 WALL), HYDRAULICALLY BENT WITH A MANDRIL, AND HOT-DIPPED GALVANIZED AFTER FABRICATION.

RACK SHALL BE EMBEDDED PER THE MANUFACTURER'S INSTRUCTIONS.

LOCATION	A	B	C
STANDARD DUTY PAVING	1-1/2"	3-1/2"	3-1/2"



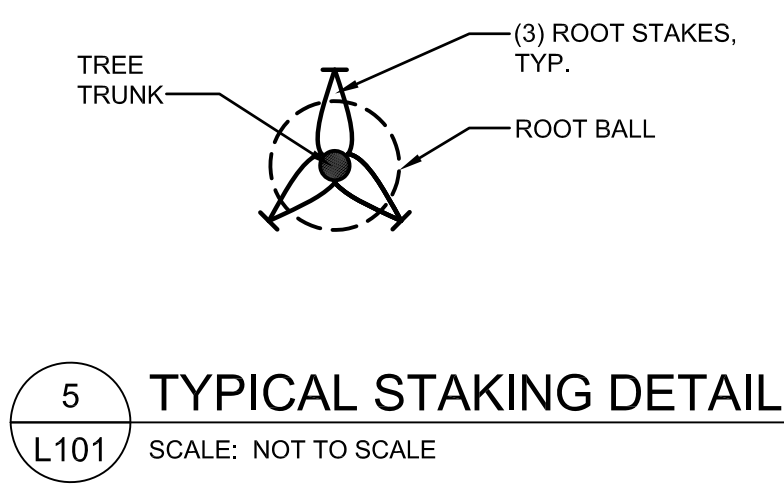
ASPHALT PAVEMENT DETAIL FOR BASKETBALL COURT
N.T.S.



SUSAN B. ALLEN
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Expiration Date 12/31/2023

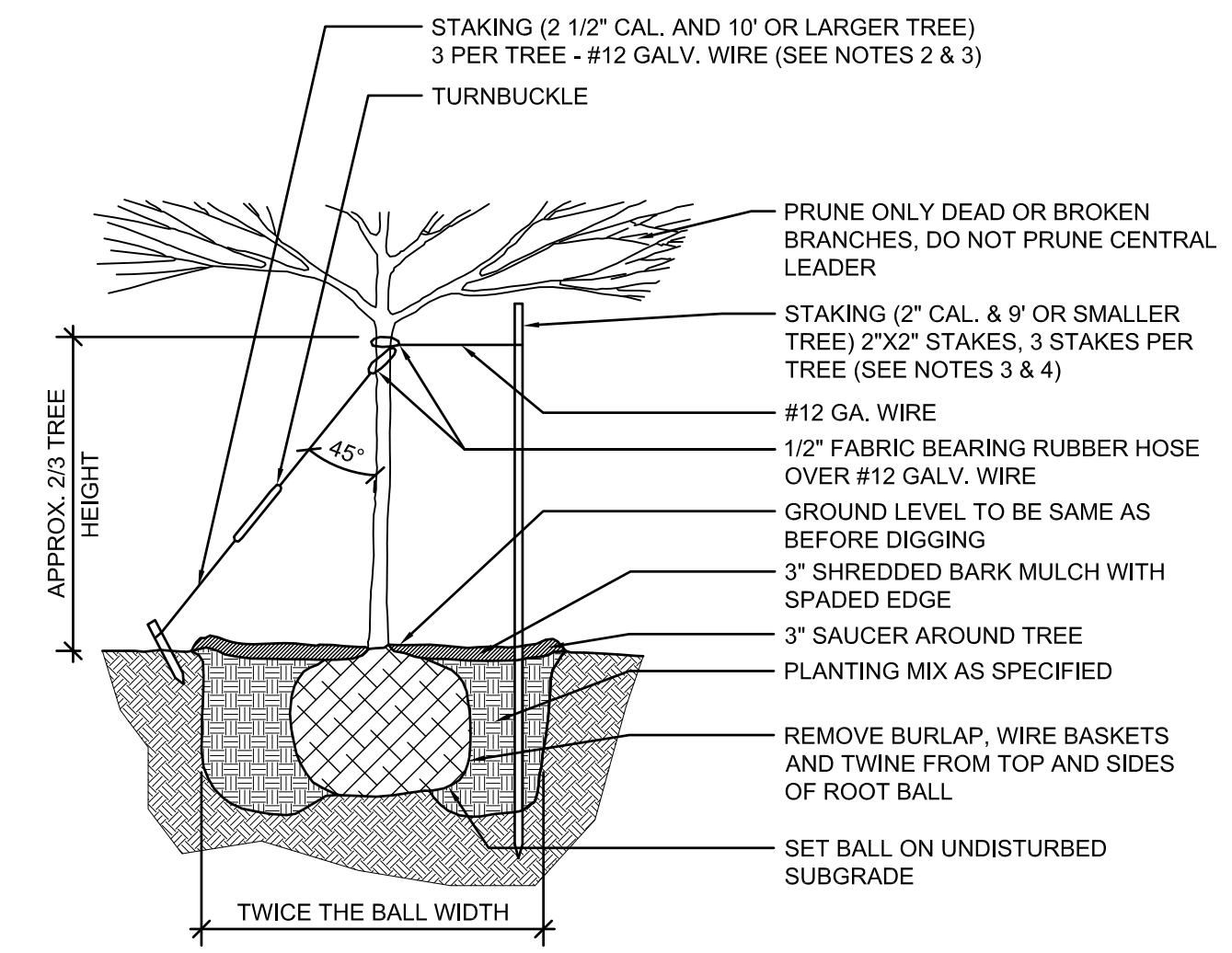
REVISIONS

NOTES:
1. REMOVE BURLAP, WIRE BASKETS AND TWINE FROM TOP AND SIDES OF ROOT BALL. CENTER TREE IN HOLE SET TOP OF BALL 1" ABOVE FINISH GRADE.
2. STAKING & GUYING TREES IS OPTIONAL, HOWEVER THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLED TREES STAYING PLUMB AND STABLE. IF A NON-STAKED TREE MOVES OUT OF PLUMB DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL STRAIGHTEN AND STAKE THE TREE AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL RETURN TO REMOVE ALL STAKES, GUYS AND ASSOCIATED HARDWARE ON THE TREES ONE YEAR AFTER STAKING OR PER THE DIRECTION OF THE OWNER OR ARCHITECT.

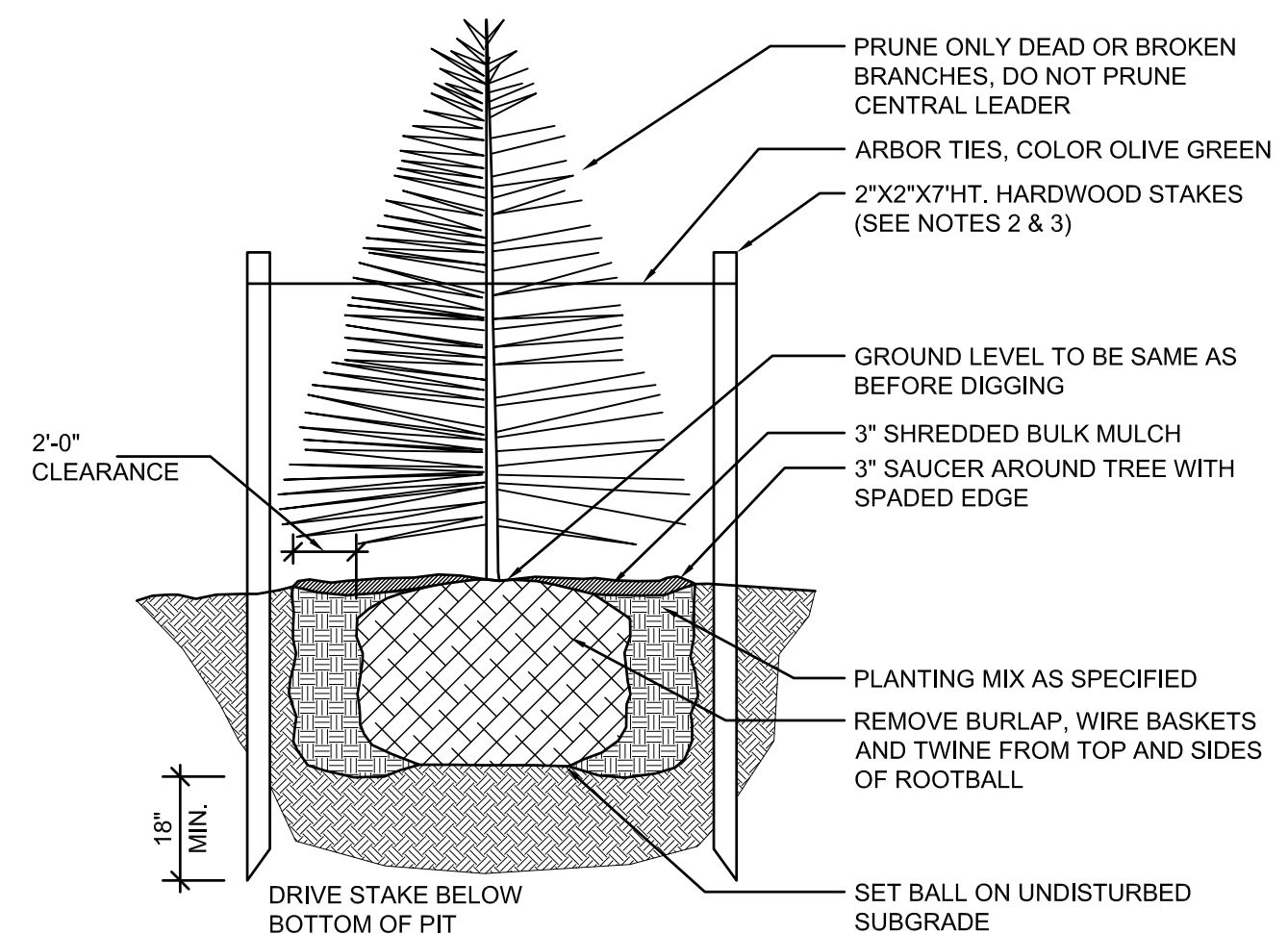


5 TYPICAL STAKING DETAIL
L101 SCALE: NOT TO SCALE

NOTES:
1. REMOVE BURLAP, WIRE BASKETS AND TWINE FROM TOP AND SIDES OF ROOT BALL. CENTER TREE IN HOLE SET TOP OF BALL 1" ABOVE FINISH GRADE.
2. STAKING & GUYING TREES IS OPTIONAL, HOWEVER THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLED TREES STAYING PLUMB AND STABLE. IF A NON-STAKED TREE MOVES OUT OF PLUMB DURING THE WARRANTY PERIOD THE CONTRACTOR SHALL STRAIGHTEN AND STAKE THE TREE AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL RETURN TO REMOVE ALL STAKES, GUYS AND ASSOCIATED HARDWARE ON THE TREES ONE YEAR AFTER STAKING OR PER THE DIRECTION OF THE OWNER OR ARCHITECT.

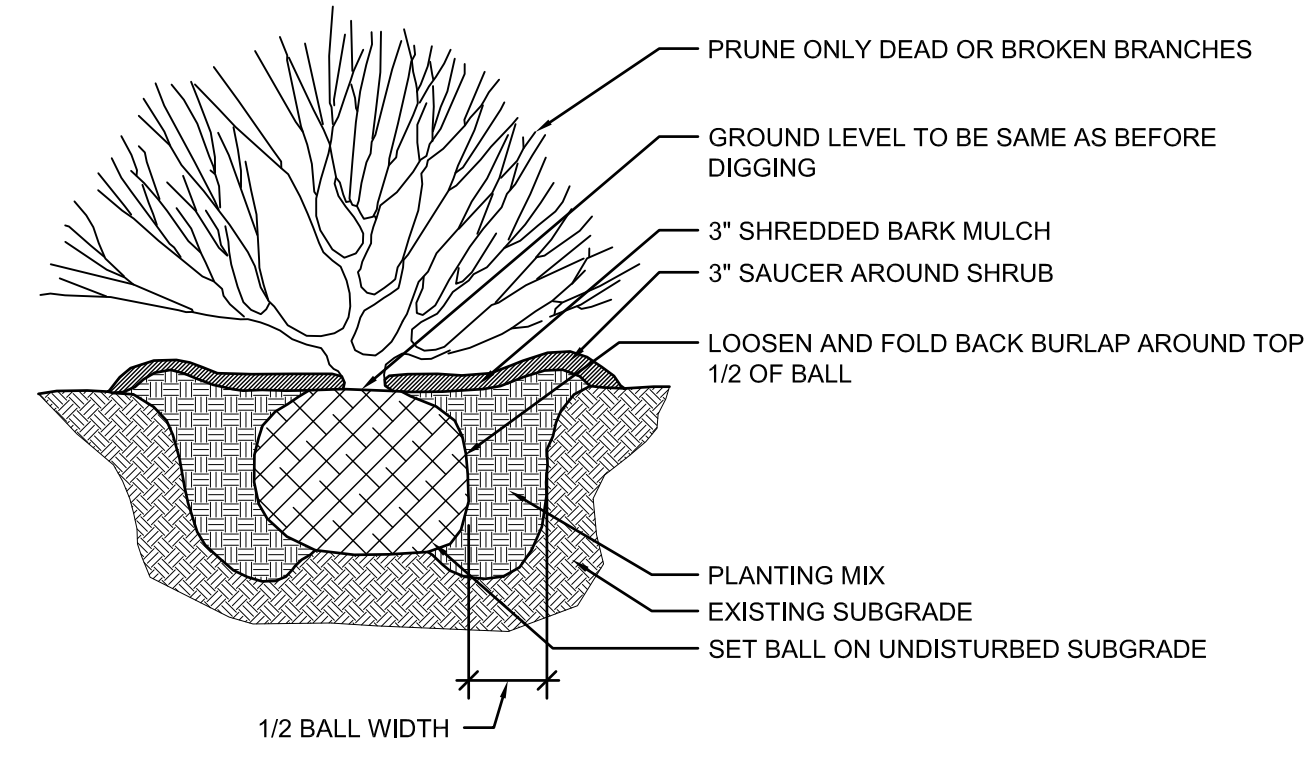


4 TYP. TREE PLANTING DETAIL
L101 SCALE: NOT TO SCALE



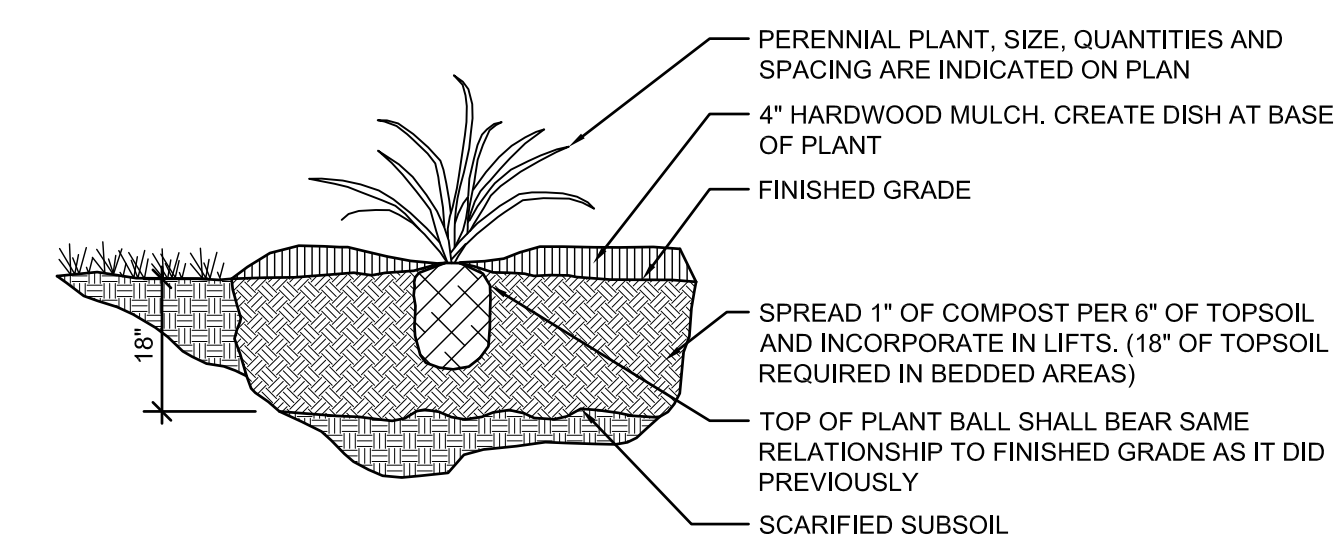
3 EVERGREEN PLANTING DETAIL
L101 SCALE: NOT TO SCALE

NOTES:
1. PLANTING MIX TO CONSIST OF 1" COMPOST PER 6" OF TOPSOIL.
2. COMPOST SHALL CONSIST OF STERILIZED, COMPOSTED MATERIAL (SWEET PEAT OR OTHER APPROVED). CONTRACTOR SHALL SUBMIT SAMPLE TO OWNERS REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION OF PLANTS.
3. MULCH TO FORM CONTINUOUS SHRUB BEDS



2 SHRUB PLANTING DETAIL
L101 SCALE: NOT TO SCALE

NOTES:
1. COMPOST SHALL CONSIST OF STERILIZED, COMPOSTED MATERIAL (SWEET PEAT OR OTHER APPROVED). CONTRACTOR SHALL SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF PLANTS.



1 PERENIAL PLANTING DETAIL
L101 SCALE: NOT TO SCALE

DETAILS
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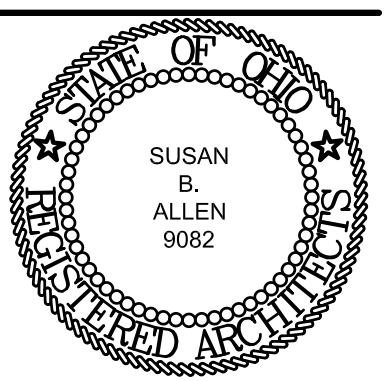
TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

L101
DRAWING NUMBER

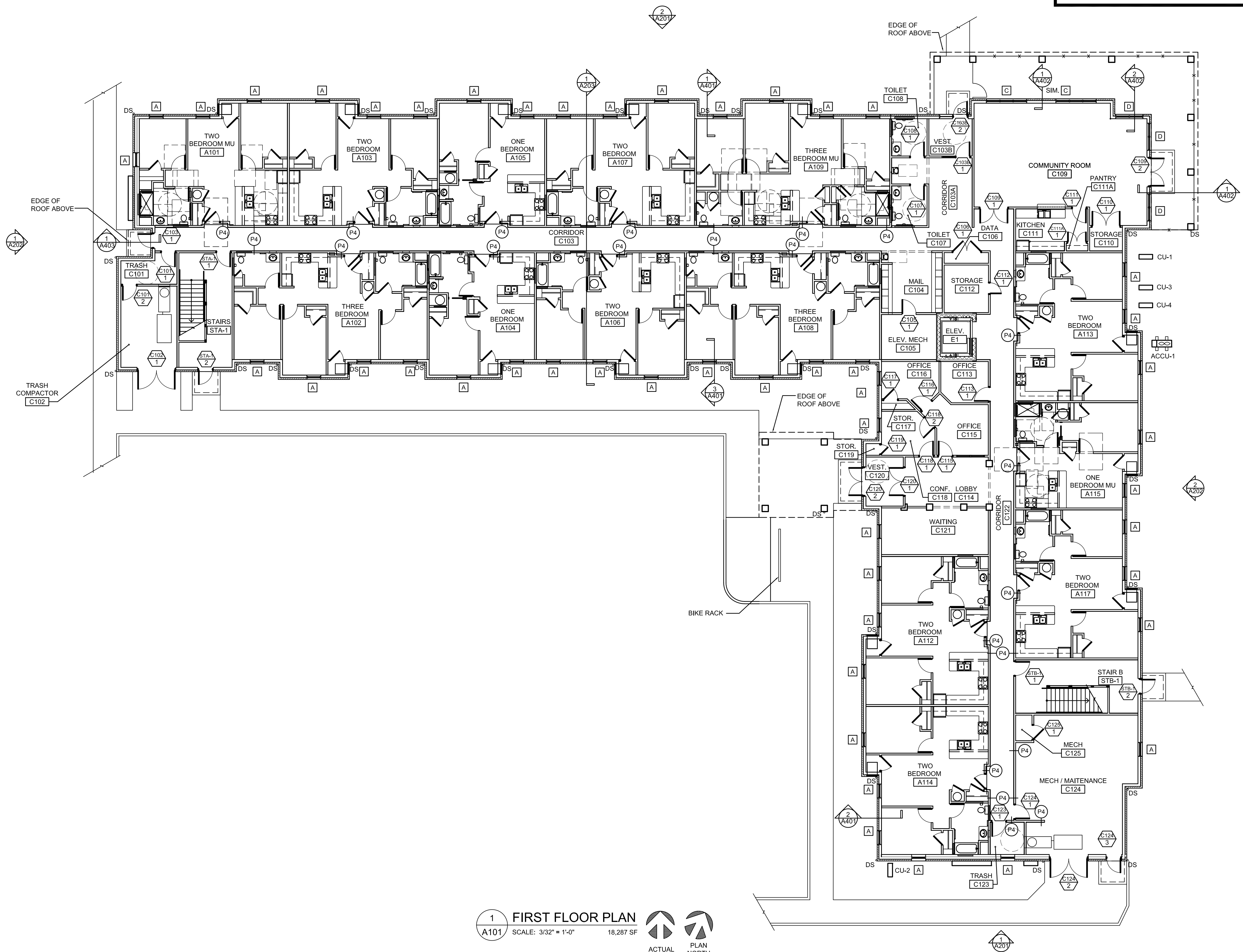
GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF SHEATHING.



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REVISIONS



1 FIRST FLOOR PLAN
SCALE: 3/32" = 1'-0" 18,287 SF
ACTUAL PLAN NORTH

FIRST FLOOR PLAN
GERMANTOWN CROSSING
DAYTON OHIO



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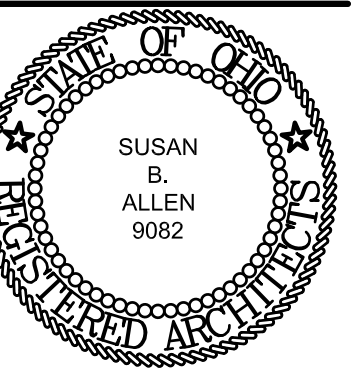
TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

A101
DRAWING NUMBER

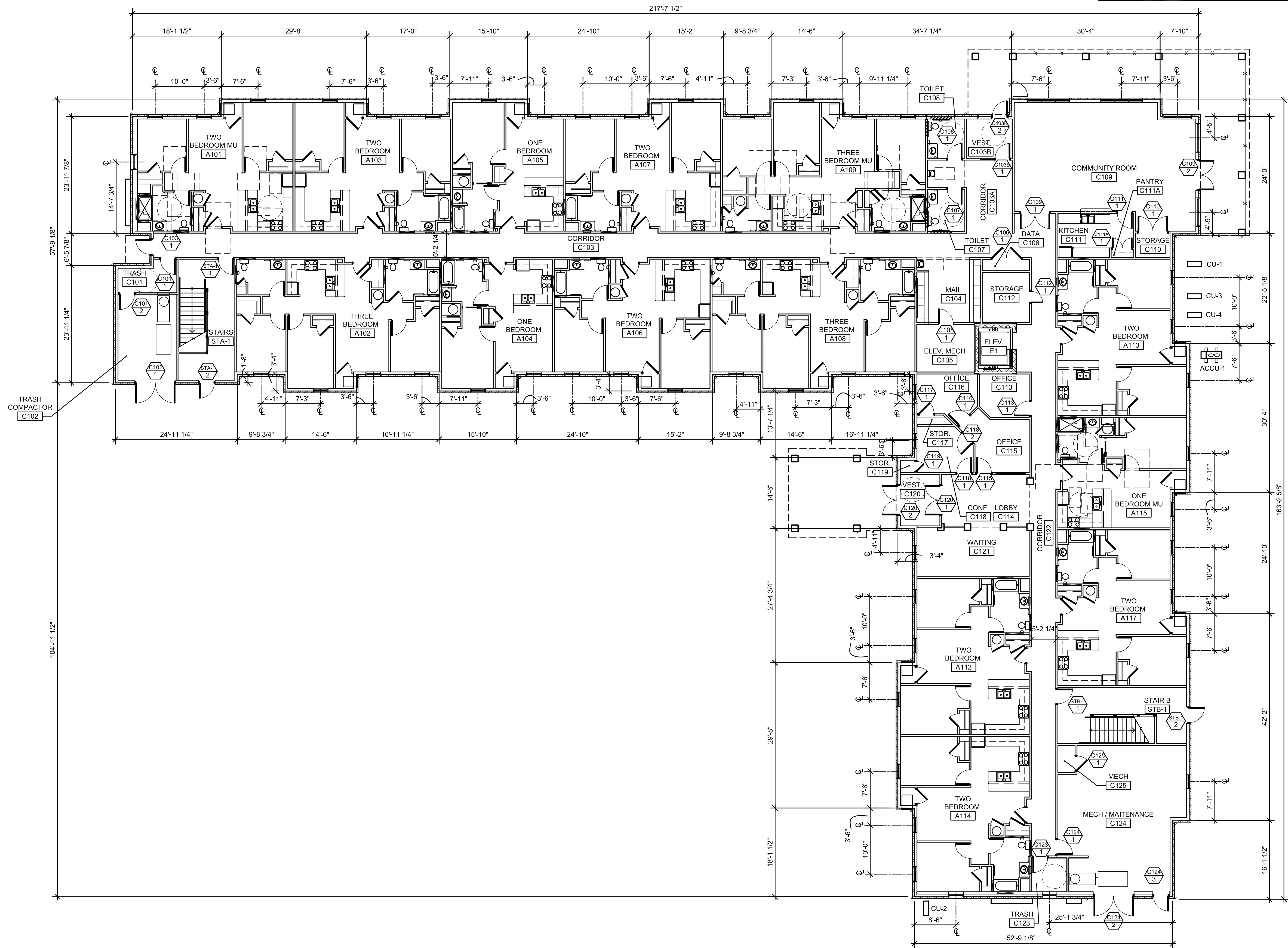
GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF SHEATHING.

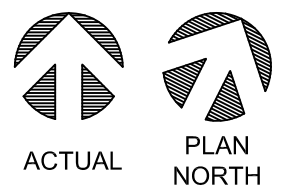


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1 FIRST FLOOR DIMENSIONAL PLAN
A101A SCALE: 3/32" = 1'-0" 18,287 SF



FIRST FLOOR DIMENSIONAL PLAN
GERMANTOWN CROSSING
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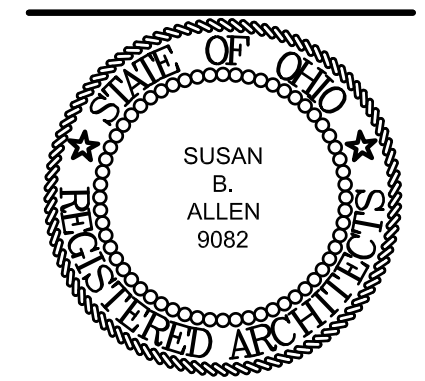
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03/31/2023
DATE
82A21
PROJECT NUMBER

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DRAWING NUMBER

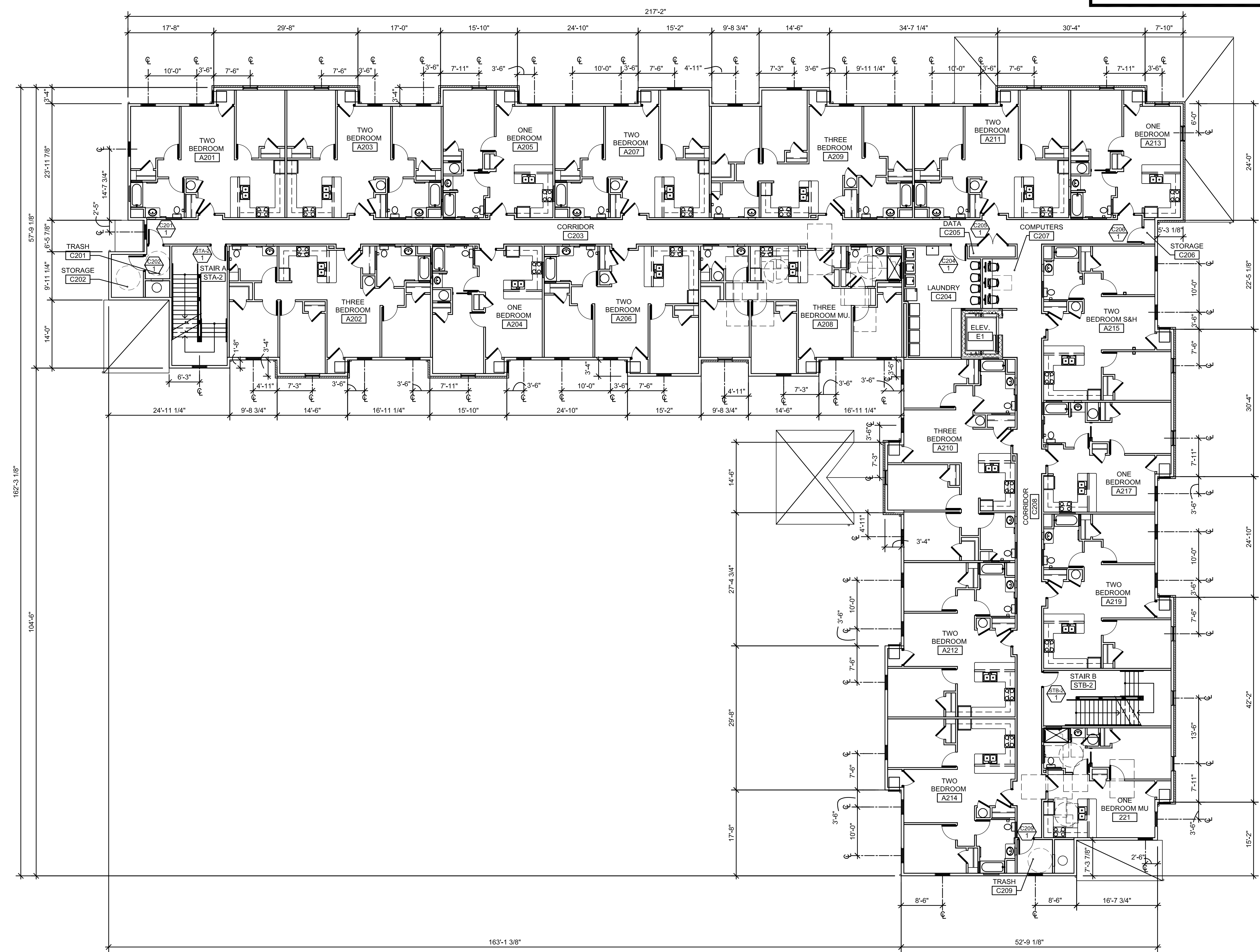
GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF SHEATHING.



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SECOND FLOOR DIMENSIONAL PLAN

GERMANTOWN CROSSING

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TURNING VISIONS INTO REALITY

03/31/2023
DATE

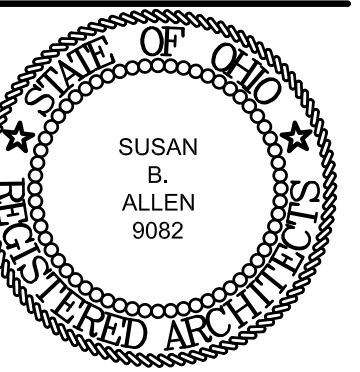
82A21
PROJECT NUMBER

A102A
DRAWING NUMBER

1 SECOND FLOOR DIMENSIONAL PLAN
A102A SCALE: 3/32" = 1'-0" 17,777 SF
ACTUAL PLAN NORTH

GENERAL NOTES

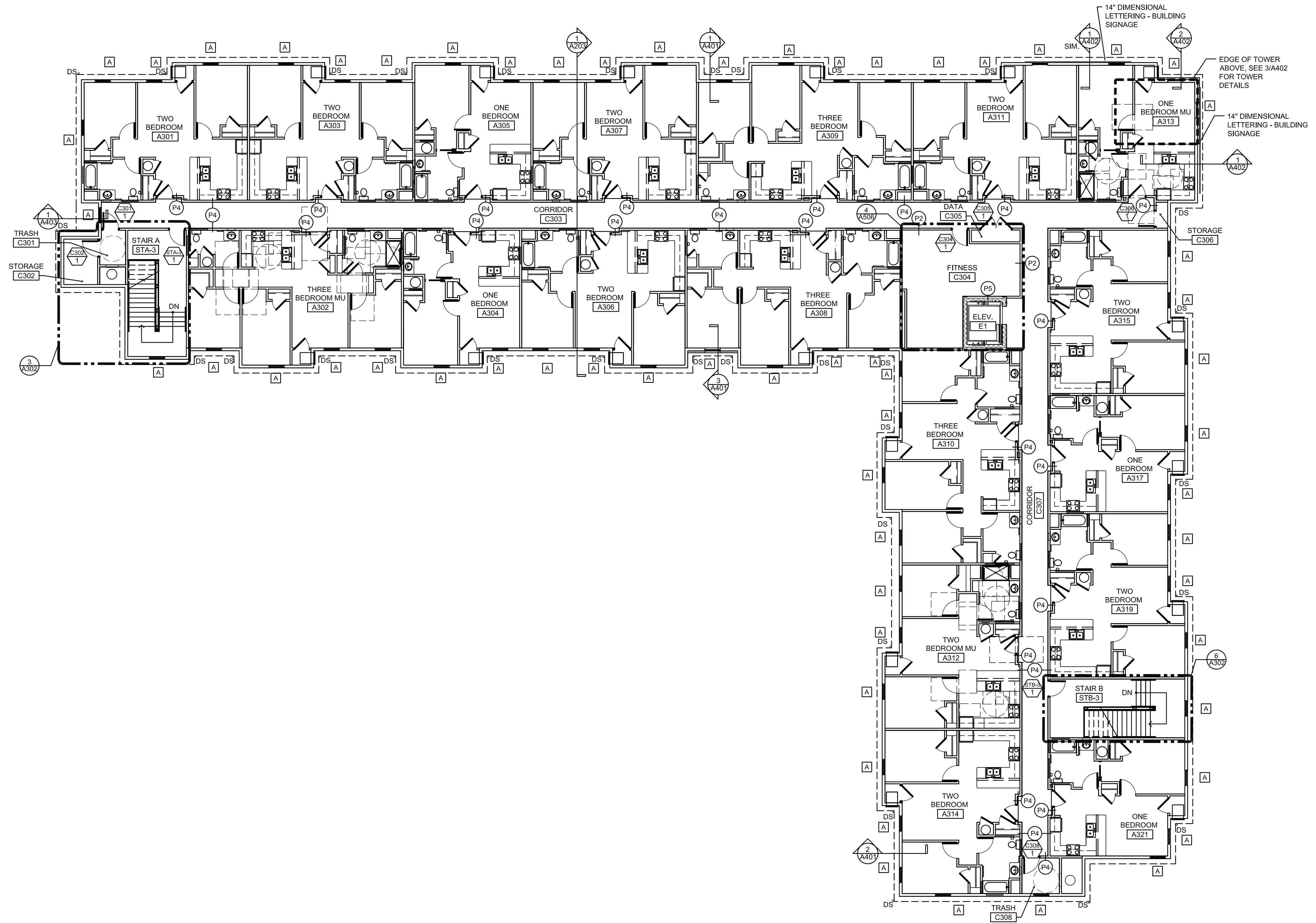
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NO.	DESCRIPTION



THIRD FLOOR PLAN
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03/31/2023

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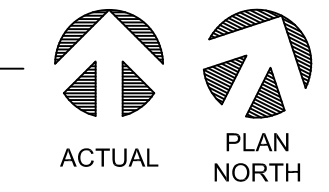
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PROJECT NUMBER

A103

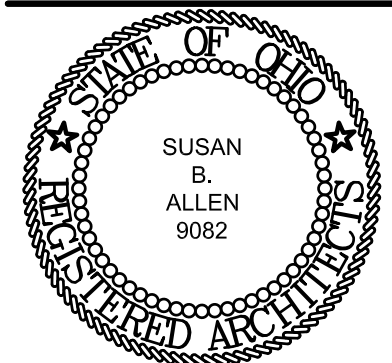
DRAWING NUMBER

1 THIRD FLOOR PLAN
A103 SCALE: 3/32" = 1'-0" 17, 777 SF



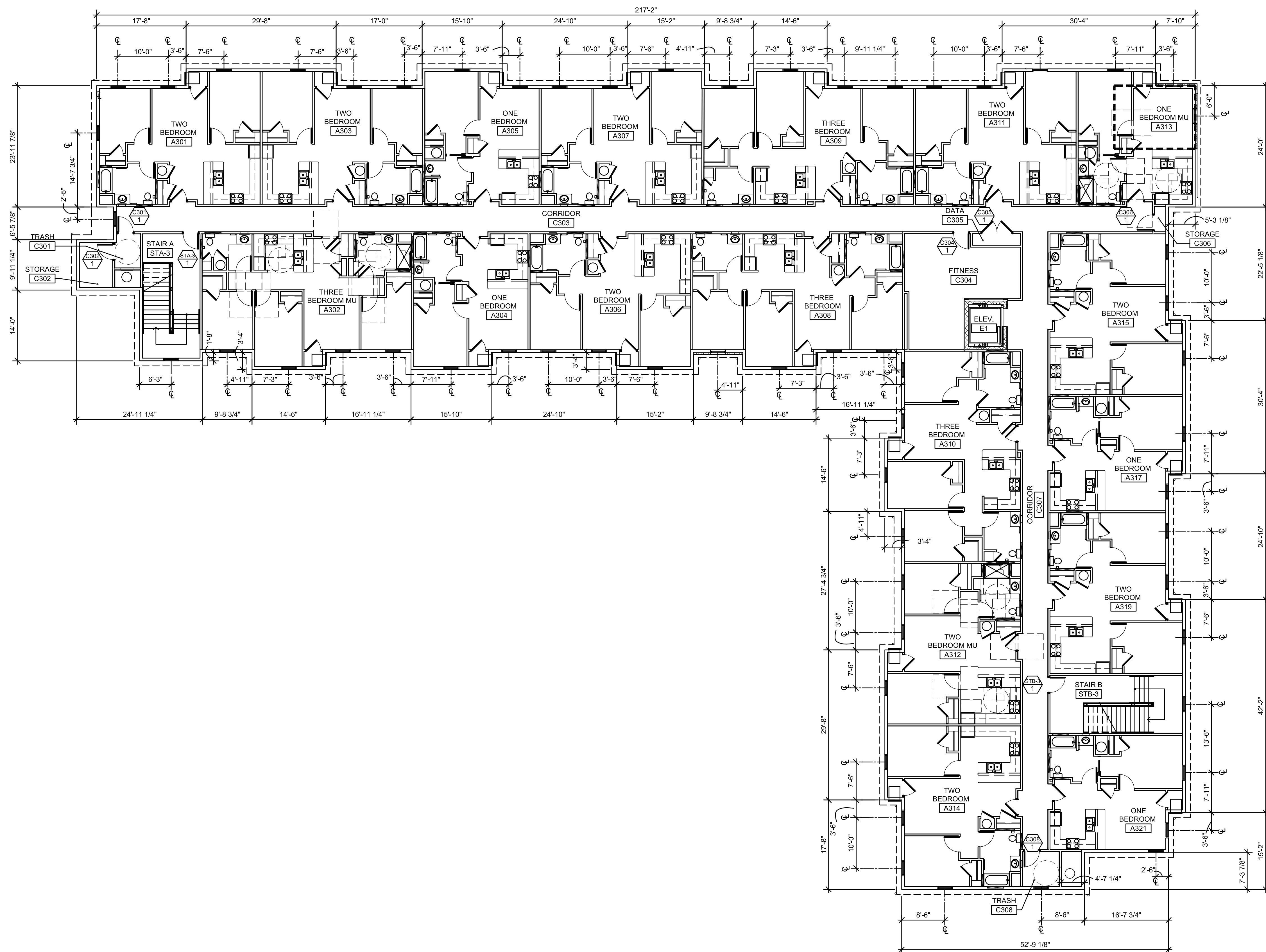
GENERAL NOTES

1. EXTERIOR DIMENSIONS ARE FROM FACE OF SHEATHING TO FACE OF SHEATHING.



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1 THIRD FLOOR DIMENSIONAL PLAN
 A103A SCALE: 3/32" = 1'-0" 17,777 SF
 ACTUAL PLAN NORTH

THIRD FLOOR DIMENSIONAL PLAN
 GERMANTOWN CROSSING
 DAYTON OHIO



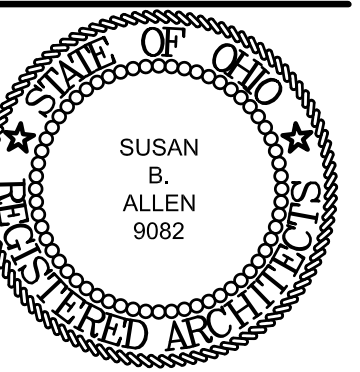
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TURNING VISIONS
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03/31/2023
 DATE
 82A21
 PROJECT NUMBER

A103A
 DRAWING NUMBER

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REVISIONS

FIRST FLOOR RCP
GERMANTOWN CROSSING
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TURNING VISIONS
INTO REALITY

03/31/2023

DATE

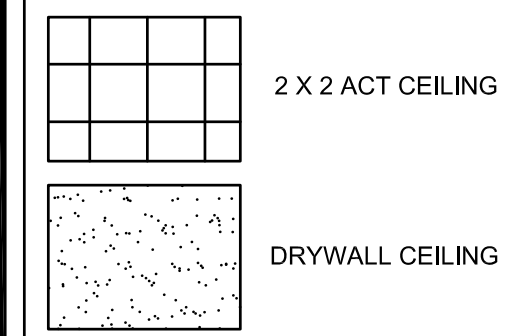
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PROJECT NUMBER

A104

DRAWING NUMBER

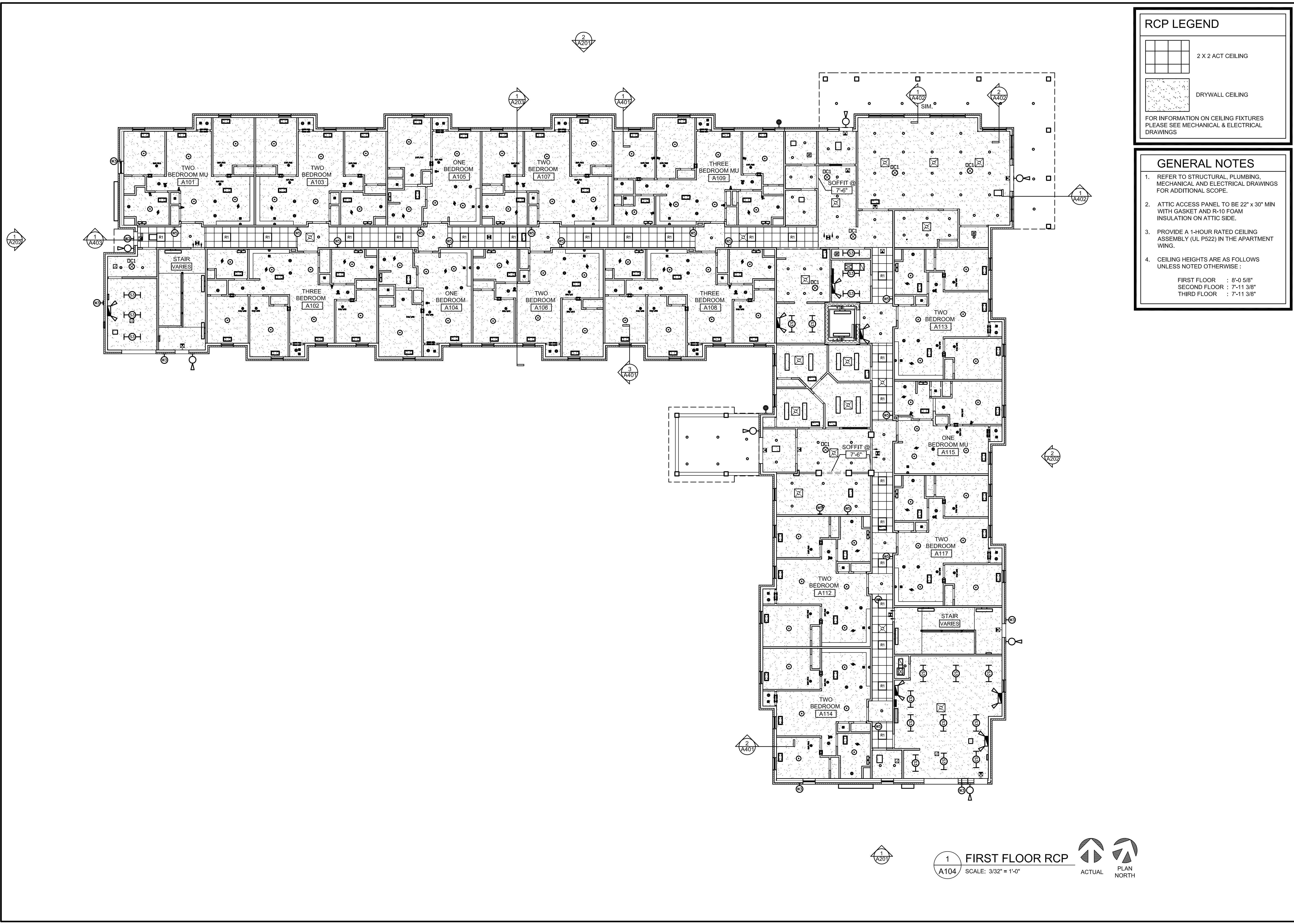
RCP LEGEND



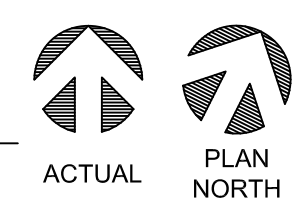
FOR INFORMATION ON CEILING FIXTURES
PLEASE SEE MECHANICAL & ELECTRICAL
DRAWINGS

GENERAL NOTES

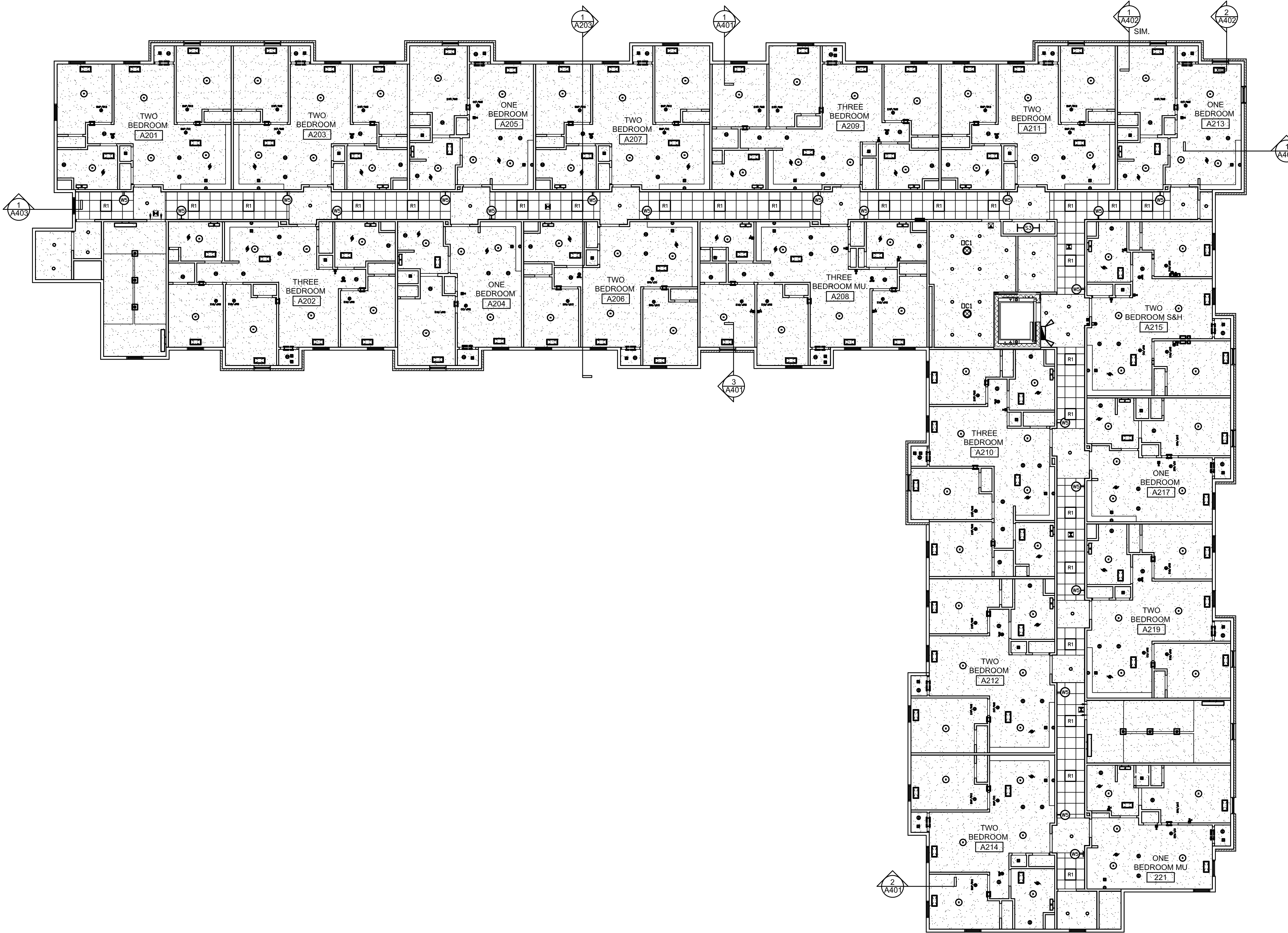
- REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.
- ATTIC ACCESS PANEL TO BE 22" x 30" MIN WITH GASKET AND R-10 FOAM INSULATION ON ATTIC SIDE.
- PROVIDE A 1-HOUR RATED CEILING ASSEMBLY (UL P522) IN THE APARTMENT WING.
- CEILING HEIGHTS ARE AS FOLLOWS UNLESS NOTED OTHERWISE :
FIRST FLOOR : 8'-0 5/8"
SECOND FLOOR : 7'-11 3/8"
THIRD FLOOR : 7'-11 3/8"



1 FIRST FLOOR RCP
A104 SCALE: 3/32" = 1'-0"



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RCP LEGEND

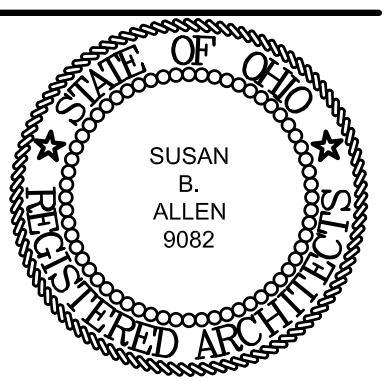
	2 X 2 ACT CEILING
	DRYWALL CEILING

FOR INFORMATION ON CEILING FIXTURES
PLEASE SEE MECHANICAL & ELECTRICAL
DRAWINGS

GENERAL NOTES

- REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.
- ATTIC ACCESS PANEL TO BE 22" x 30" MIN WITH GASKET AND R-10 FOAM INSULATION ON ATTIC SIDE.
- PROVIDE A 1-HOUR RATED CEILING ASSEMBLY (UL P522) IN THE APARTMENT WING.
- CEILING HEIGHTS ARE AS FOLLOWS UNLESS NOTED OTHERWISE :

FIRST FLOOR	: 8'-0 5/8"
SECOND FLOOR	: 7'-11 3/8"
THIRD FLOOR	: 7'-11 3/8"



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SECOND FLOOR RCP
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INTO REALITY**

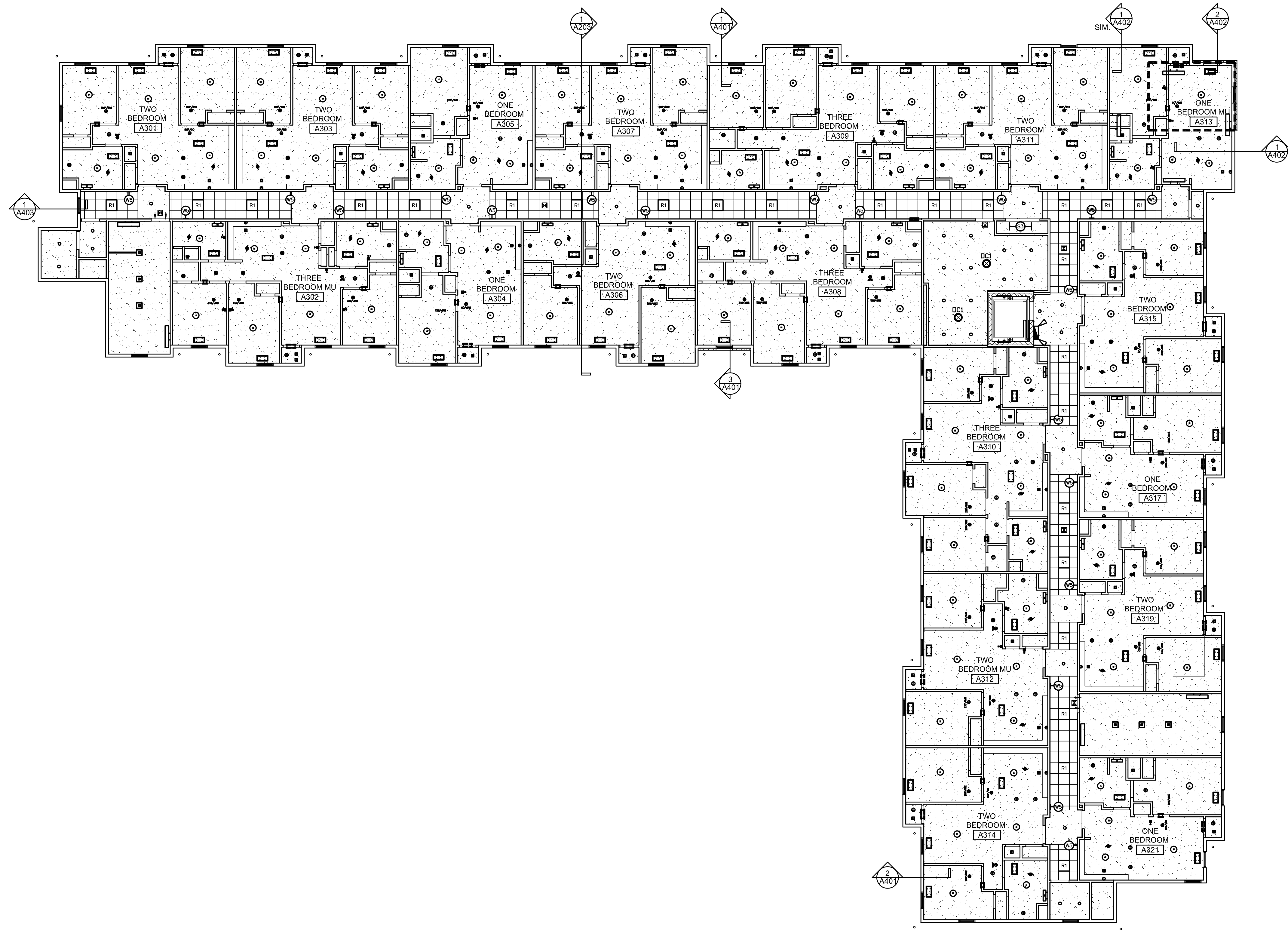
03/31/2023
DATE
82A21
PROJECT NUMBER

A105
DRAWING NUMBER

1 SECOND FLOOR RCP
A105 SCALE: 3/32" = 1'-0"

ACTUAL
 PLAN NORTH

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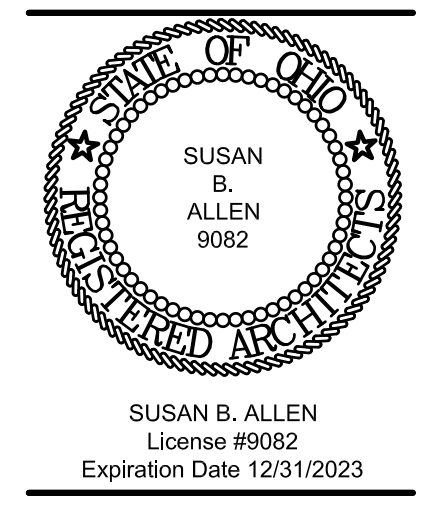
RCP LEGEND

	2 X 2 ACT CEILING
	DRYWALL CEILING

FOR INFORMATION ON CEILING FIXTURES
PLEASE SEE MECHANICAL & ELECTRICAL
DRAWINGS

GENERAL NOTES

- REFER TO STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE.
- ATTIC ACCESS PANEL TO BE 22" x 30" MIN WITH GASKET AND R-10 FOAM INSULATION ON ATTIC SIDE.
- PROVIDE A 1-HOUR RATED CEILING ASSEMBLY (UL P522) IN THE APARTMENT WING.
- CEILING HEIGHTS ARE AS FOLLOWS UNLESS NOTED OTHERWISE :
 FIRST FLOOR : 8'-0 5/8"
 SECOND FLOOR : 7'-11 3/8"
 THIRD FLOOR : 7'-11 3/8"



REVISIONS

THIRD FLOOR RCP
GERMANTOWN CROSSING
DAYTON OHIO



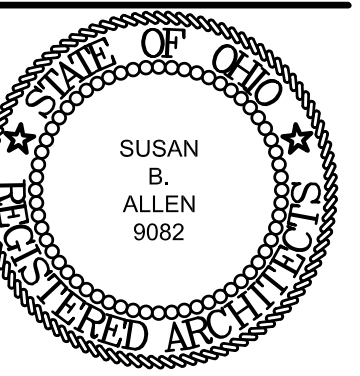
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**TURNING VISIONS
INTO REALITY**

03/31/2023
DATE
82A21
PROJECT NUMBER

A106
DRAWING NUMBER

1 THIRD FLOOR RCP
A106 SCALE: 3/32" = 1'-0"
ACTUAL PLAN NORTH



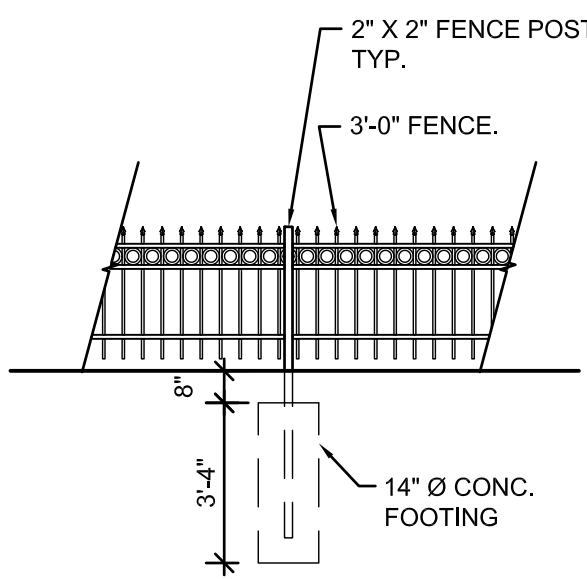
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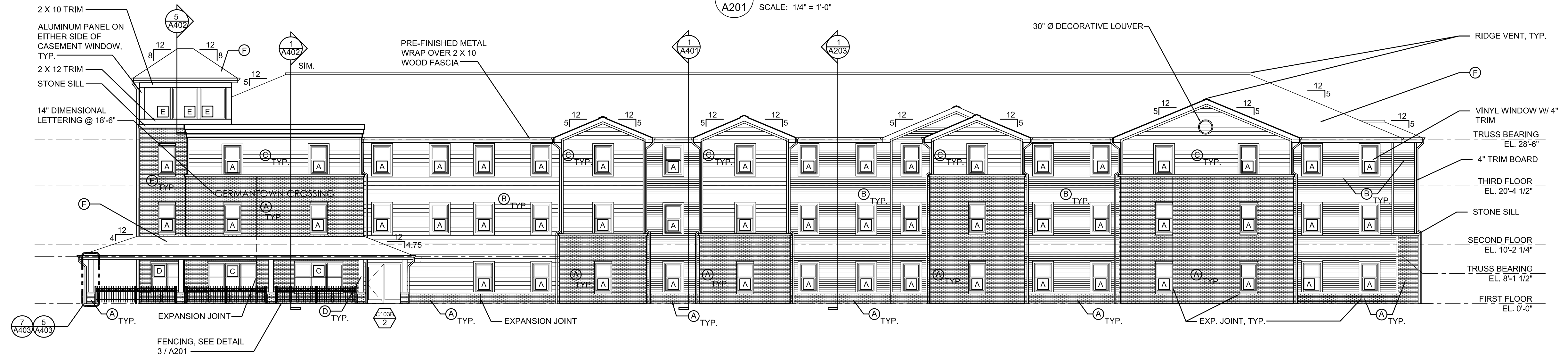
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EXTERIOR FINISHES ☉

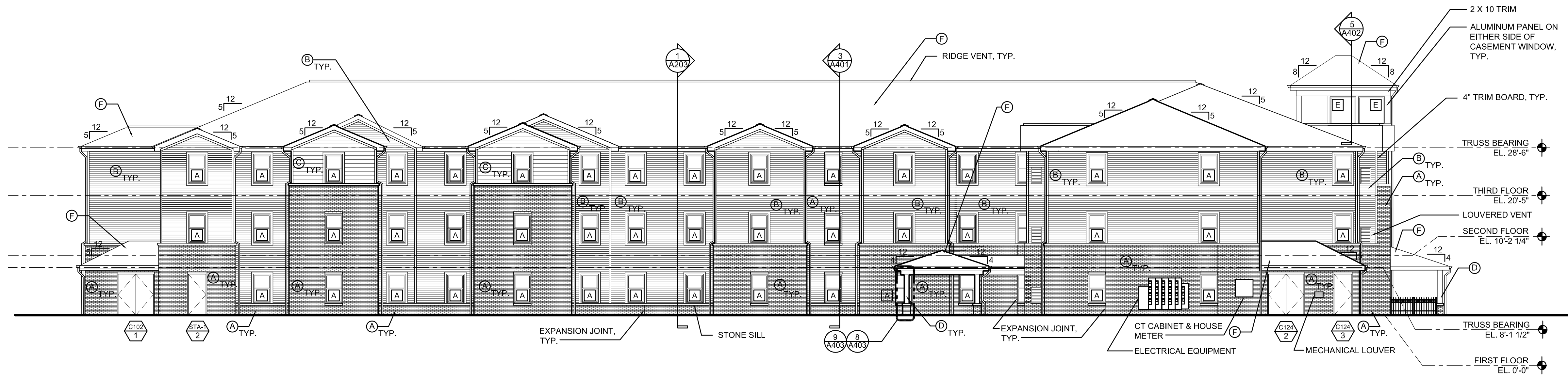
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A	BRICK	TBD	TBD	TBD	-
B	4" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
C	8" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
D	COLUMN ENCLOSURE	TBD	TBD	TBD	-
E	BRICK	TBD	TBD	TBD	-
F	ASPHALT SHINGLES	TBD	TBD	TBD	-



3 FENCING DETAIL
A201 SCALE: 1/4" = 1'-0"



2 NORTH ELEVATION
A201 SCALE: 3/32" = 1'-0"



1 SOUTH ELEVATION
A201 SCALE: 3/32" = 1'-0"

EXTERIOR ELEVATIONS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

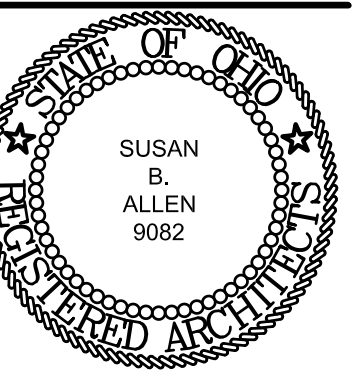
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

A201
DRAWING NUMBER



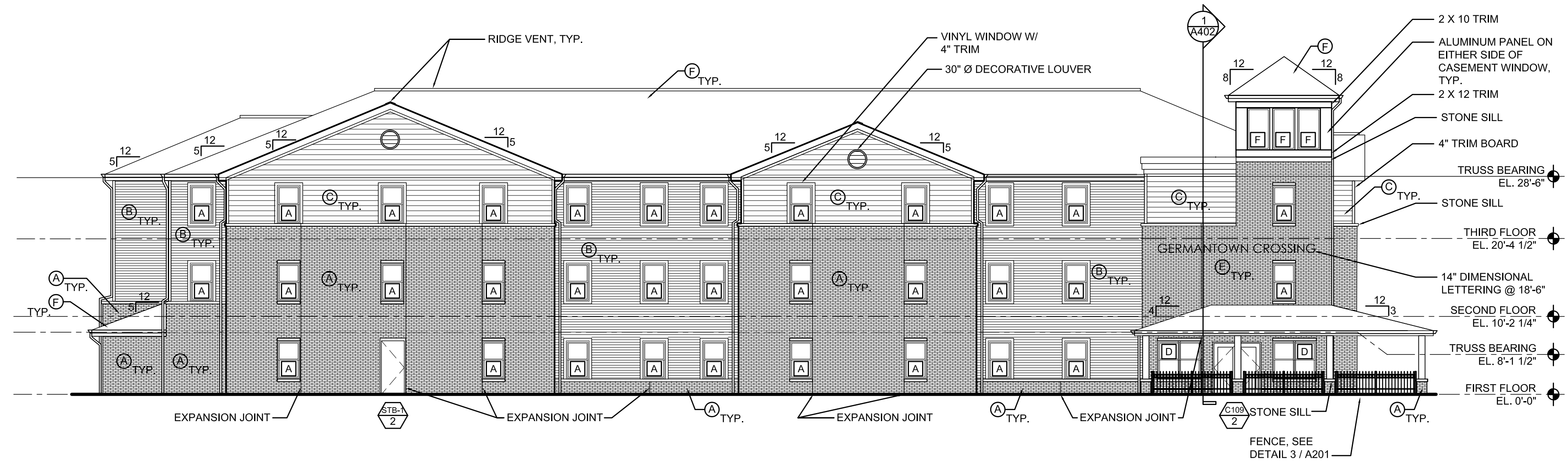
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License #9082
Expiration Date 12/31/2023

REVISIONS

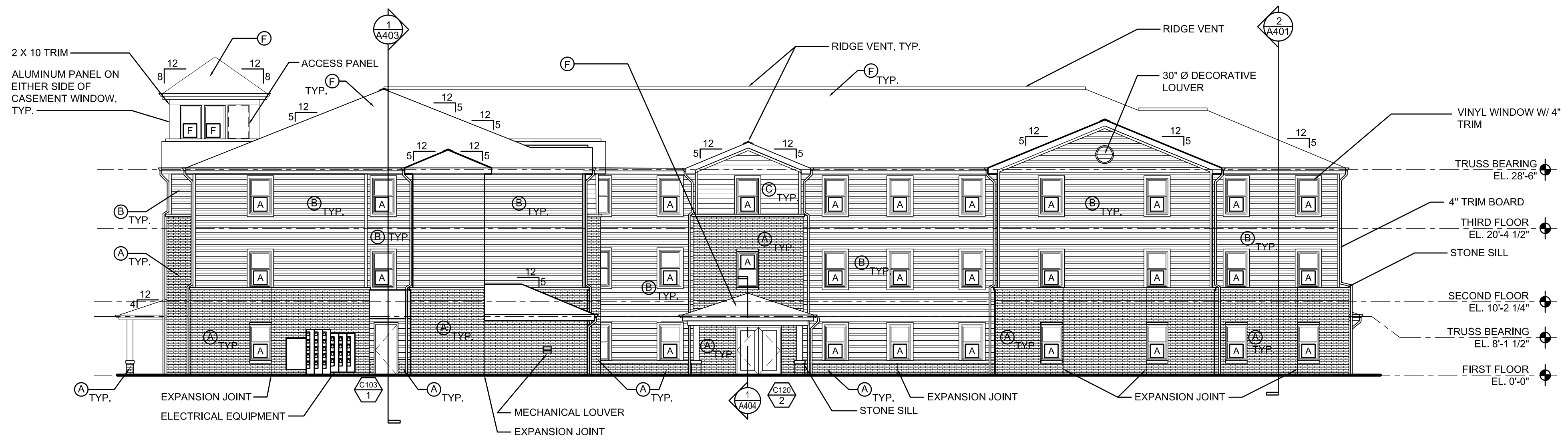
NO.	DATE	DESCRIPTION

EXTERIOR FINISHES ☉

MARK	DESCRIPTION	COLOR	TEXTURE	MANUFACTURE	REMARKS
A	BRICK	TBD	TBD	TBD	-
B	4" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
C	8" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
D	COLUMN ENCLOSURE	TBD	TBD	TBD	-
E	BRICK	TBD	TBD	TBD	-
F	ASPHALT SHINGLES	TBD	TBD	TBD	-



2 EAST ELEVATION
SCALE: 3/32" = 1'-0"



1 WEST ELEVATION
SCALE: 3/32" = 1'-0"

EXTERIOR ELEVATIONS
GERMENTOWN CROSSING
DAYTON OHIO



ARCHITECTS

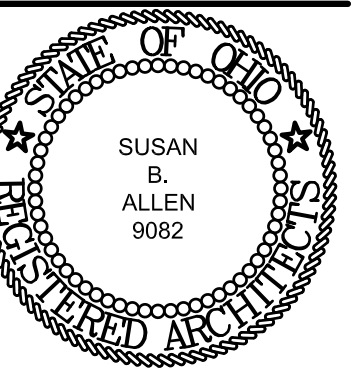
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

A202
DRAWING NUMBER



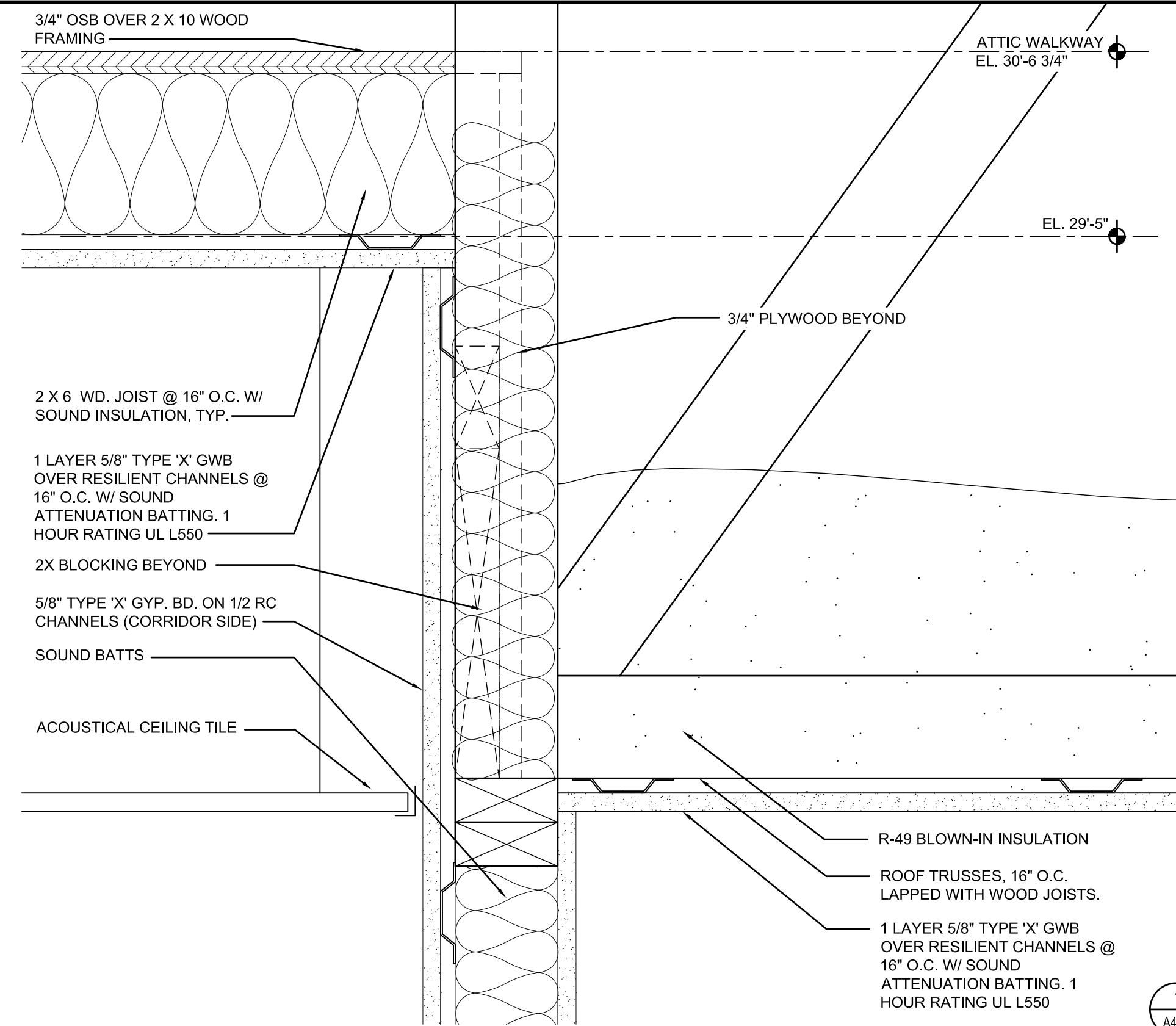
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License #9082
Expiration Date 12/31/2023

REVISIONS

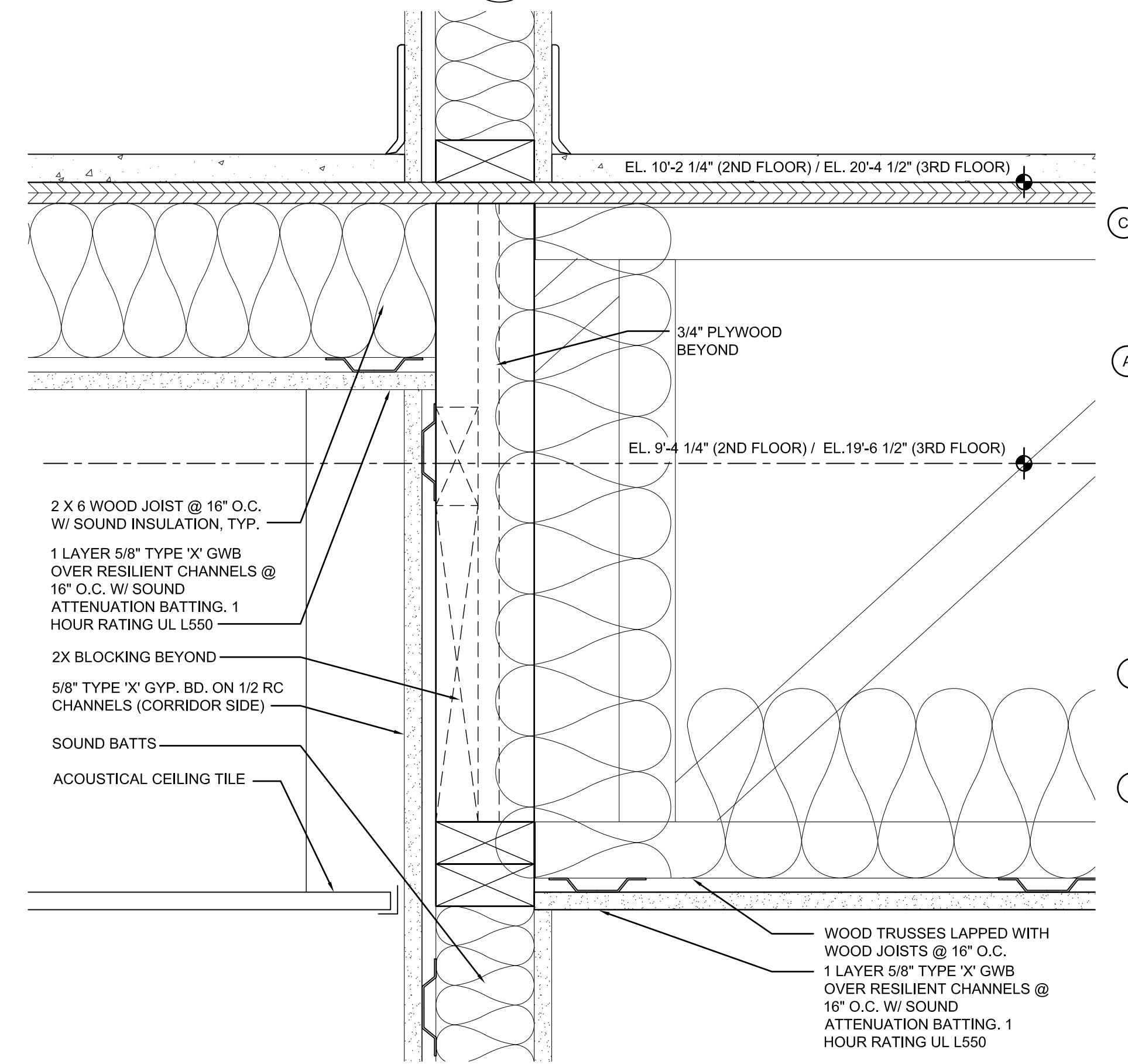
NO.	DATE	DESCRIPTION

EXTERIOR FINISHES ☉

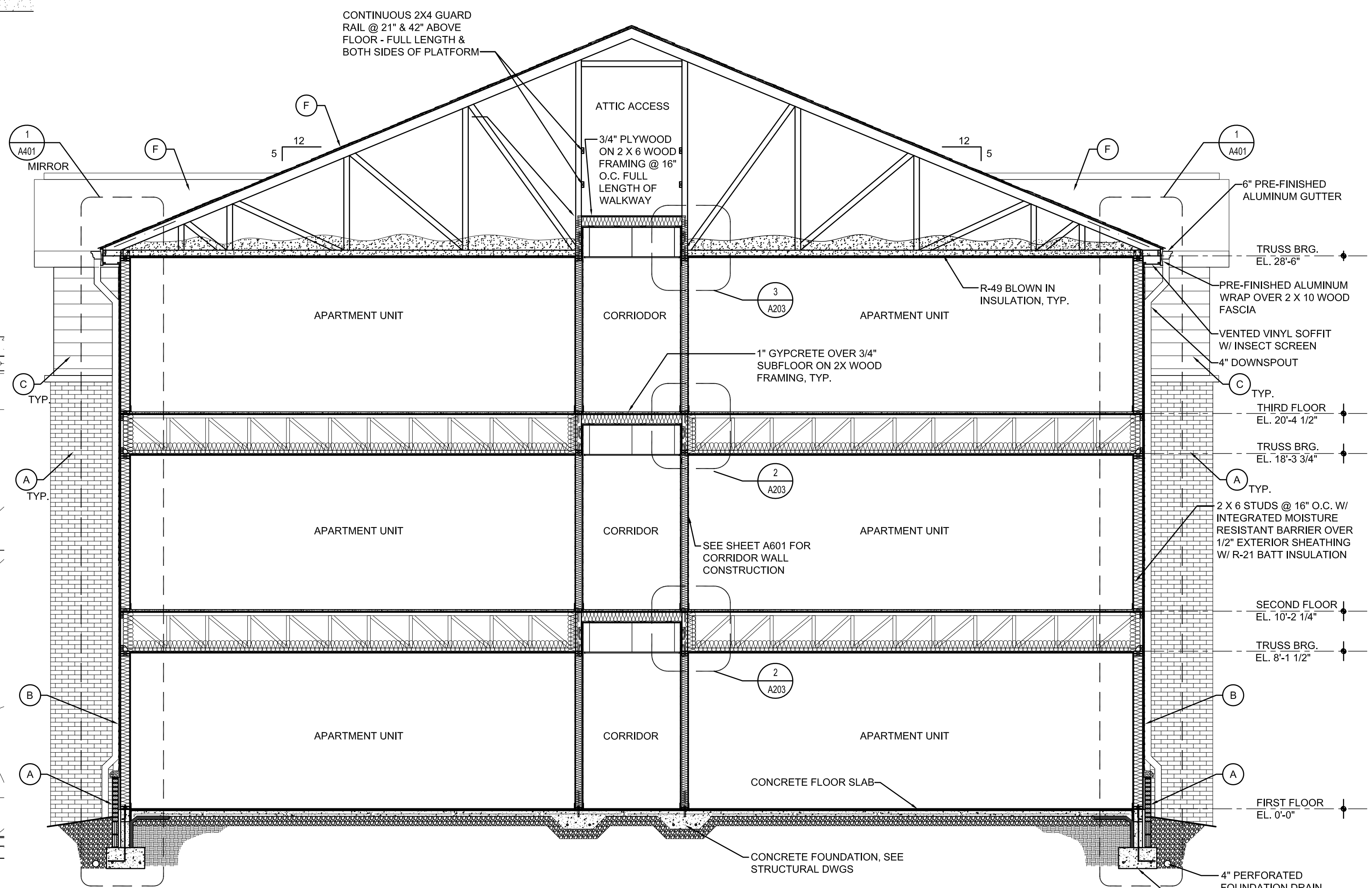
MARK	DESCRIPTION	COLOR	TEXTURE	MANUFACTURE	REMARKS
A	BRICK	TBD	TBD	TBD	-
B	4" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
C	8" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
D	COLUMN ENCLOSURE	TBD	TBD	TBD	-
E	BRICK	TBD	TBD	TBD	-
F	ASPHALT SHINGLES	TBD	TBD	TBD	-



3 FRAMING DETAIL @ CORRIDOR
A203 SCALE: 3" = 1'-0"



2 FRAMING DETAIL @ CORRIDOR
A203 SCALE: 3" = 1'-0"



1 BUILDING SECTION
A203 SCALE: 1/4" = 1'-0"

W:\GDFM\Germantown Crossing-82A21\05Dwg\3CD\A203.dwg Mar 29, 2023 - 2:24pm

BUILDING SECTION
GERMANTOWN CROSSING
DAYTON OHIO



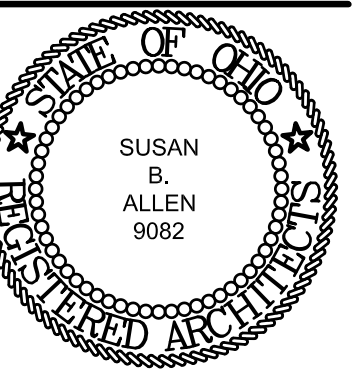
430 GRANT STREET
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

A203
DRAWING NUMBER



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REVISIONS

NO.	DATE	DESCRIPTION

ELEVATOR SECTION
GERMANTOWN CROSSING
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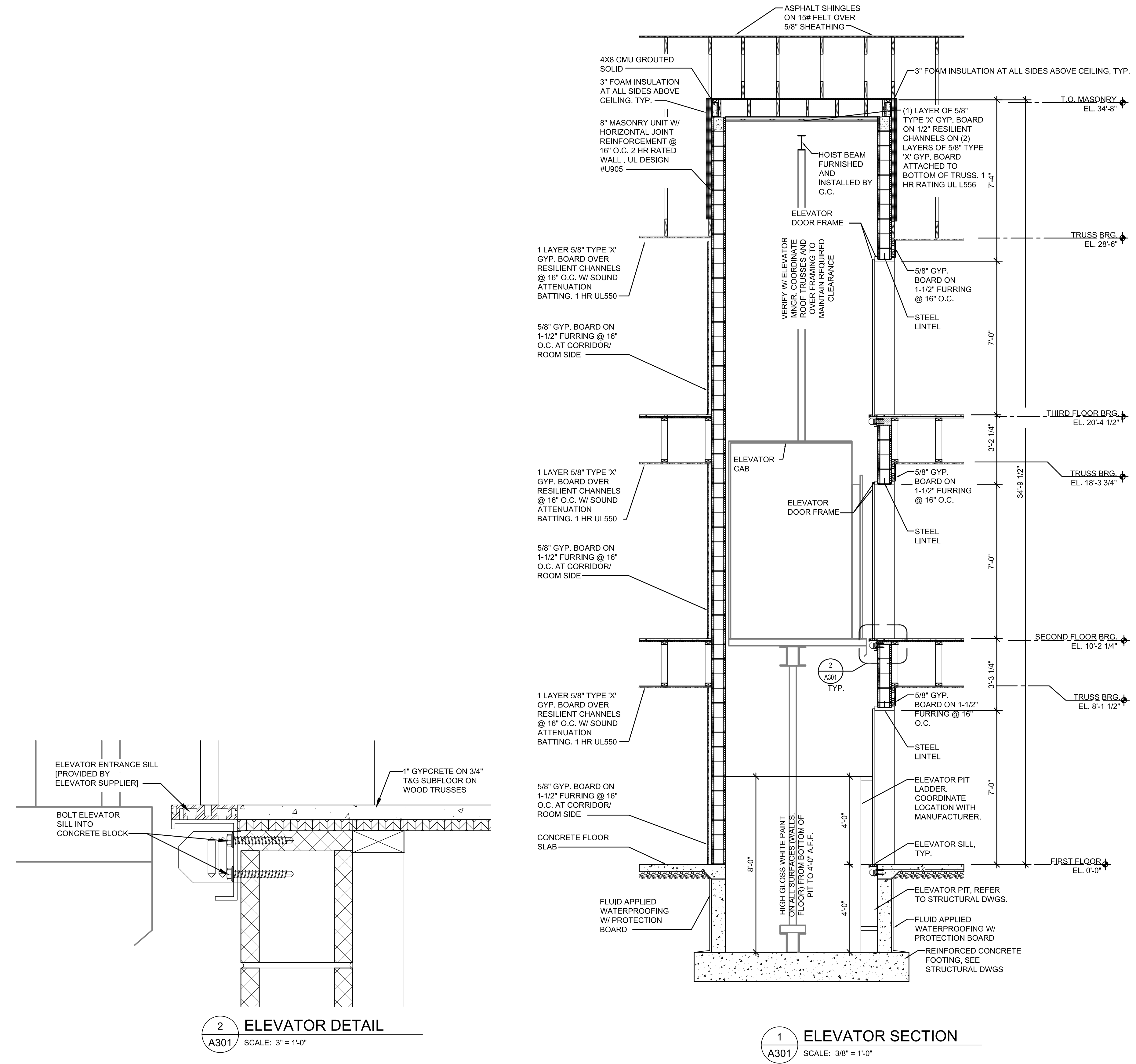
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82A21

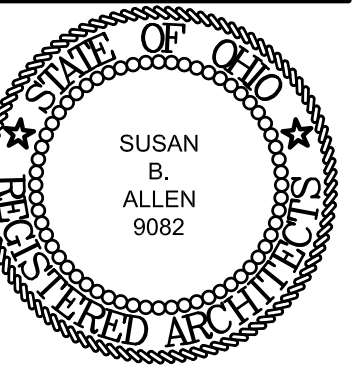
PROJECT NUMBER

A301

DRAWING NUMBER



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REVISIONS

NO.	DATE	DESCRIPTION

STAIR PLANS & DETAILS

GERMANTOWN CROSSING
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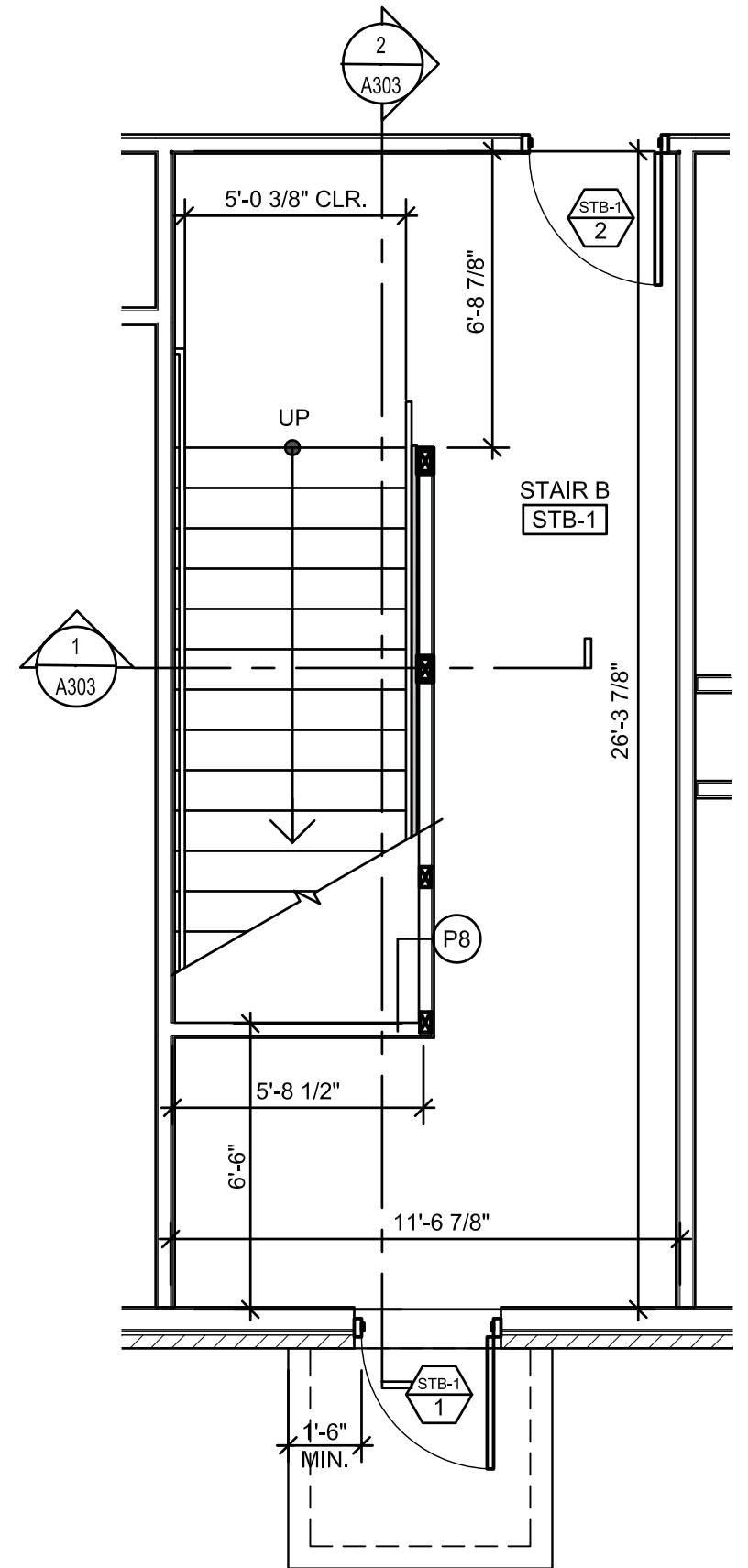
DATE

82A21

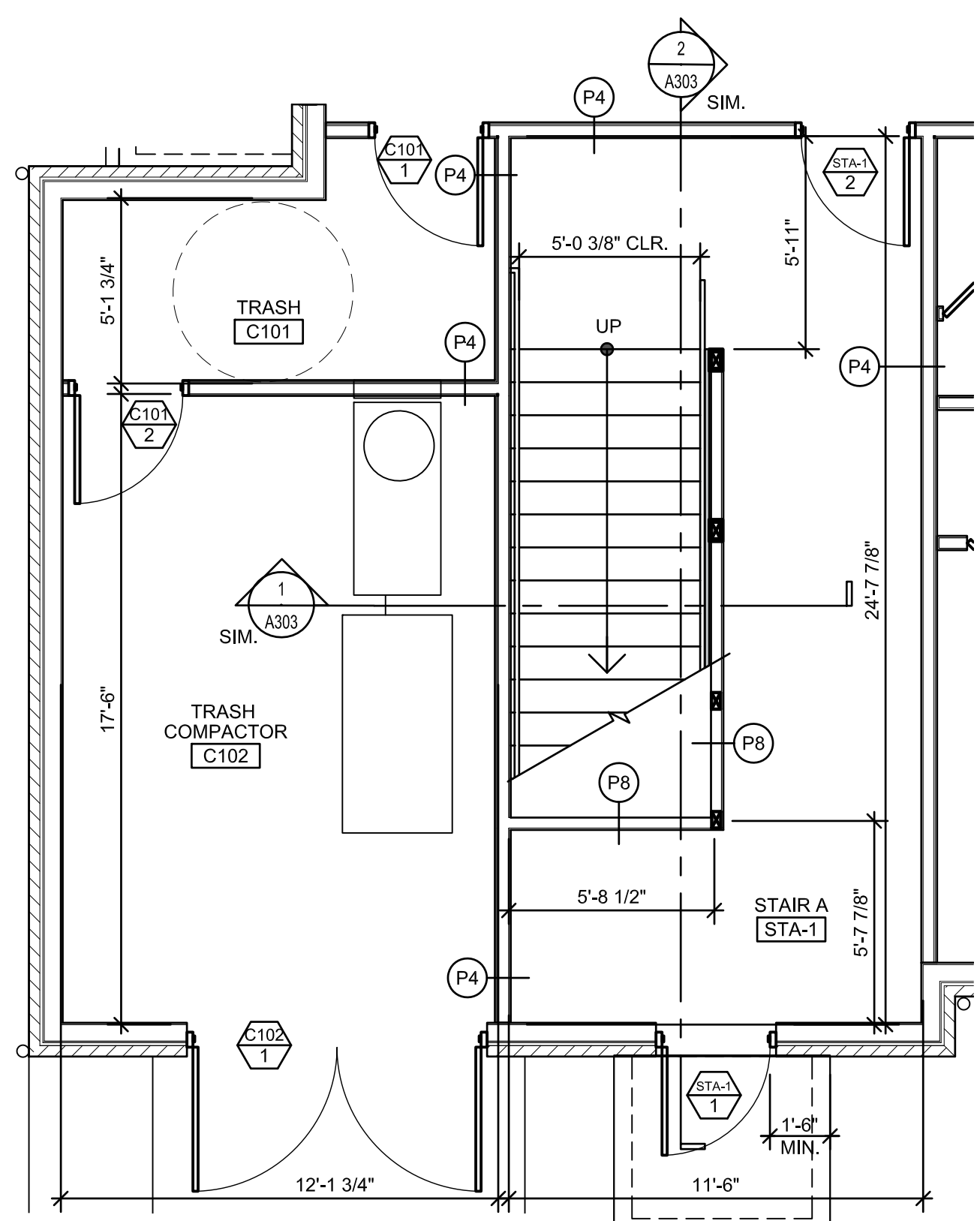
PROJECT NUMBER

A302

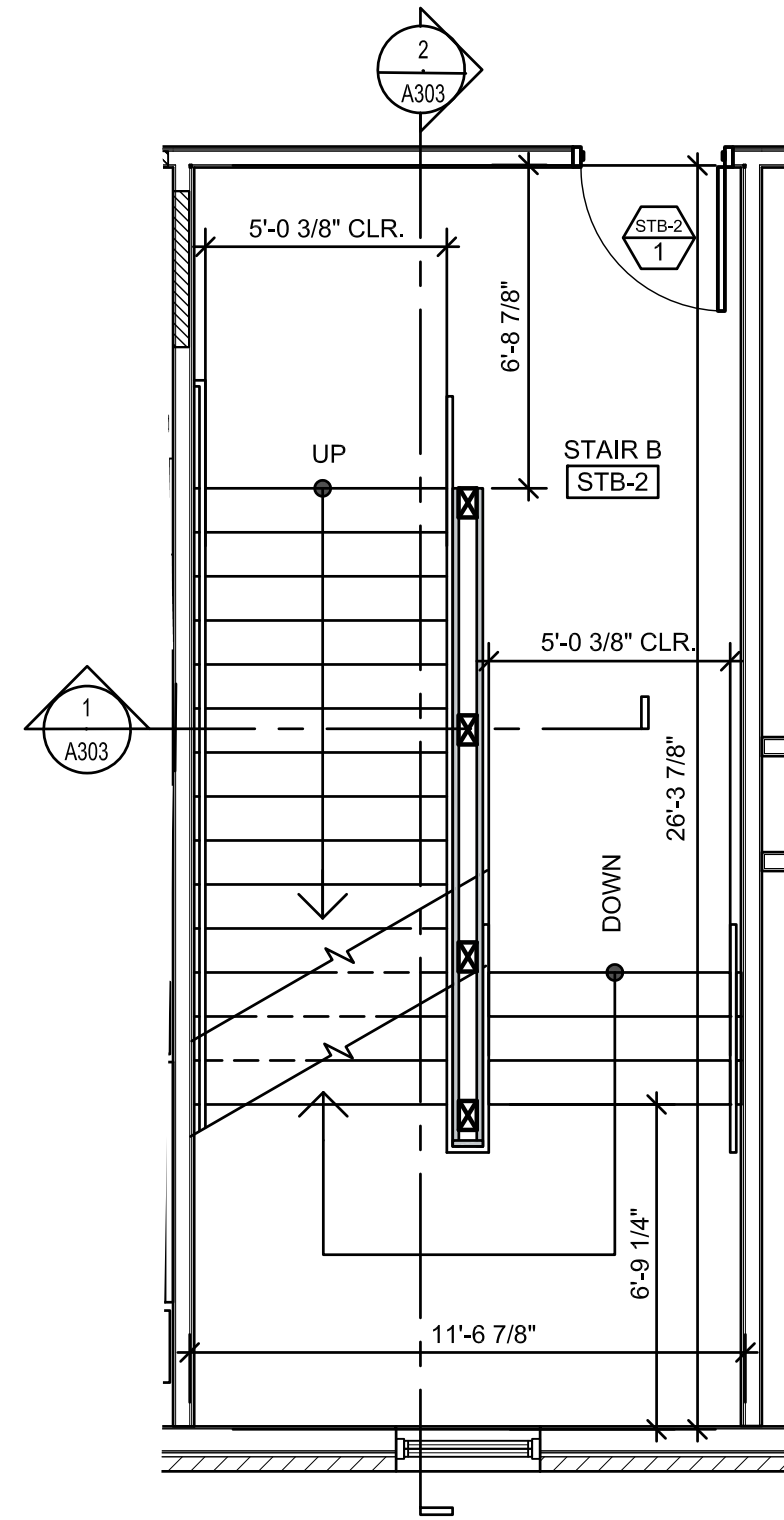
DRAWING NUMBER



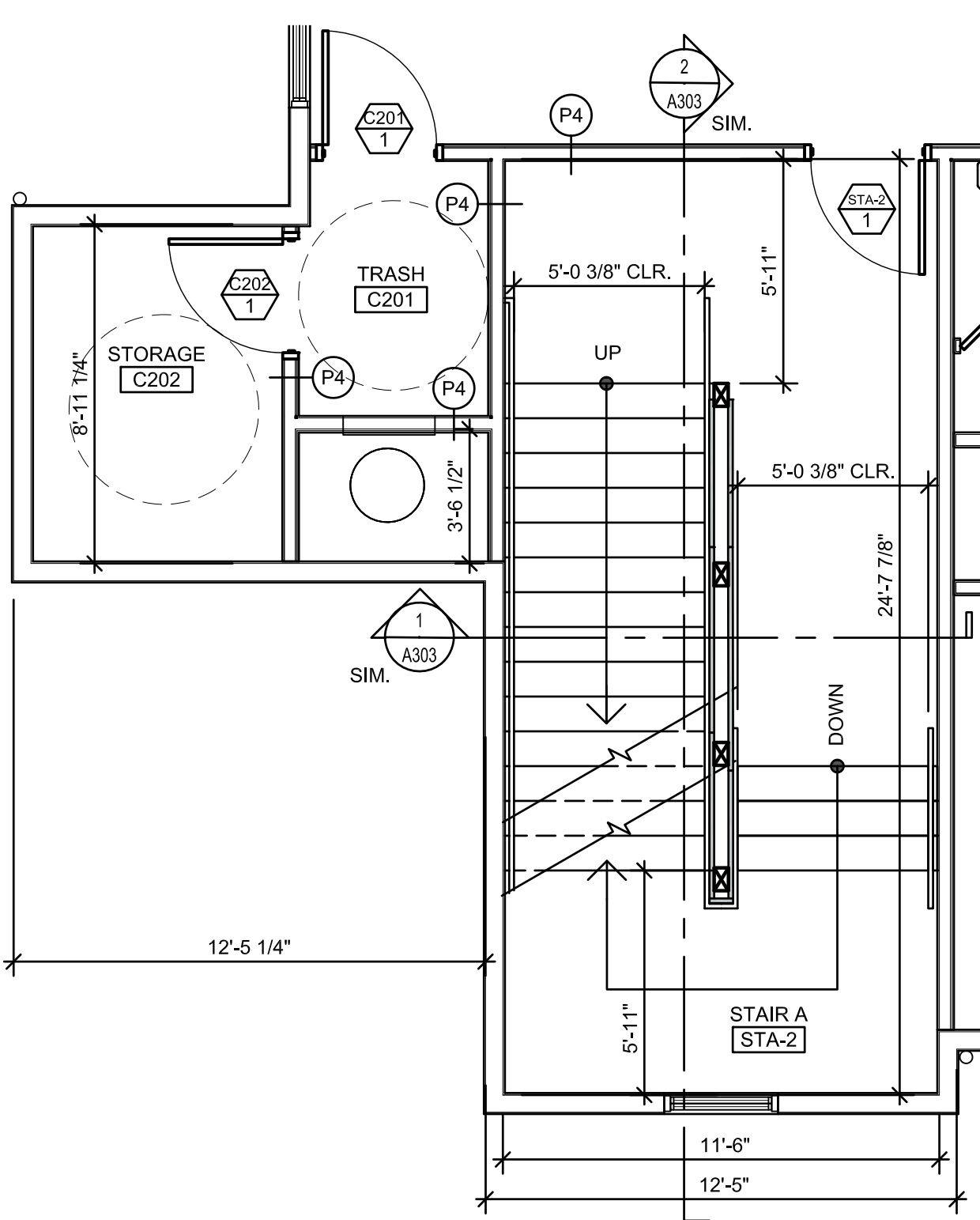
4 1ST FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



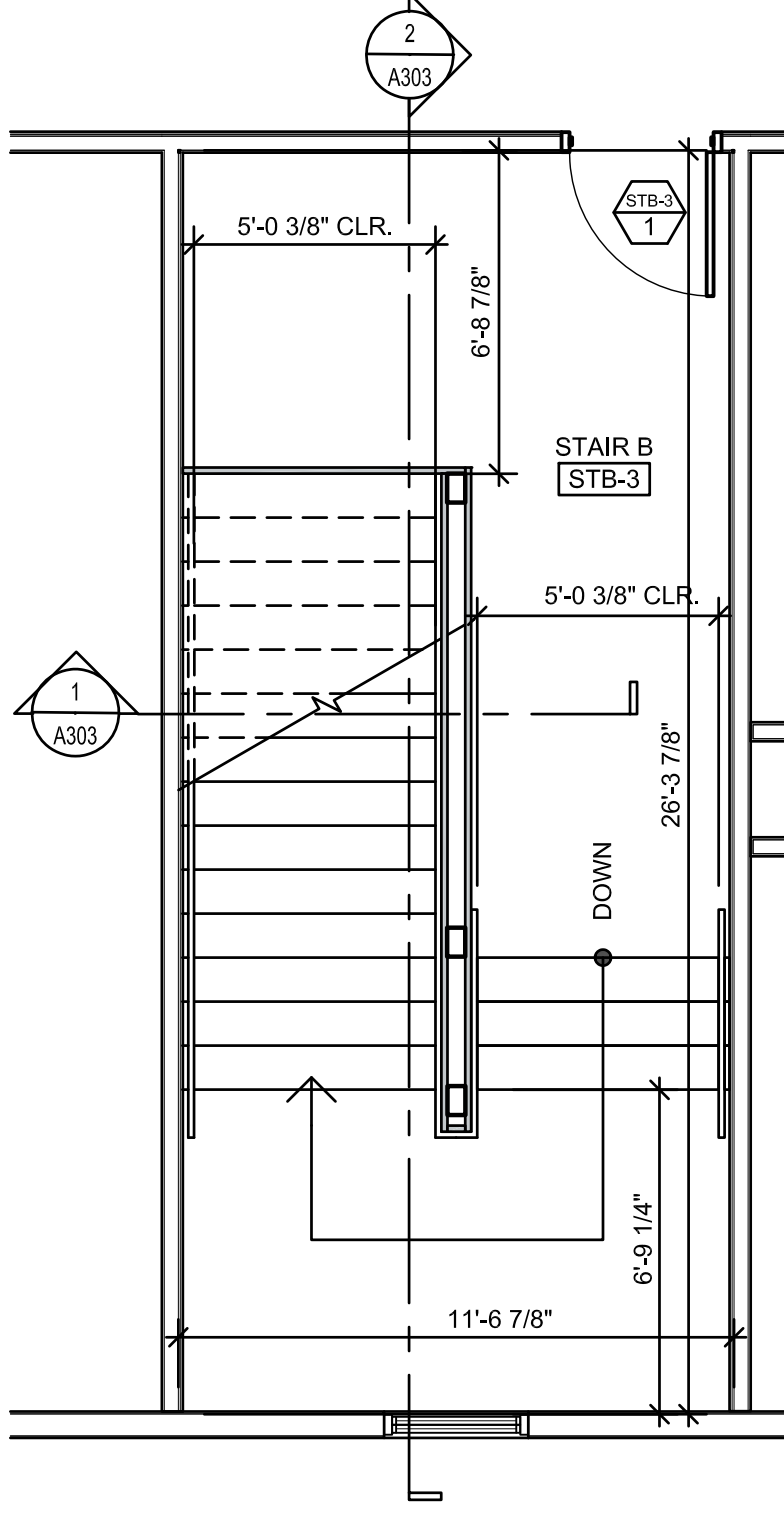
1 1ST FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



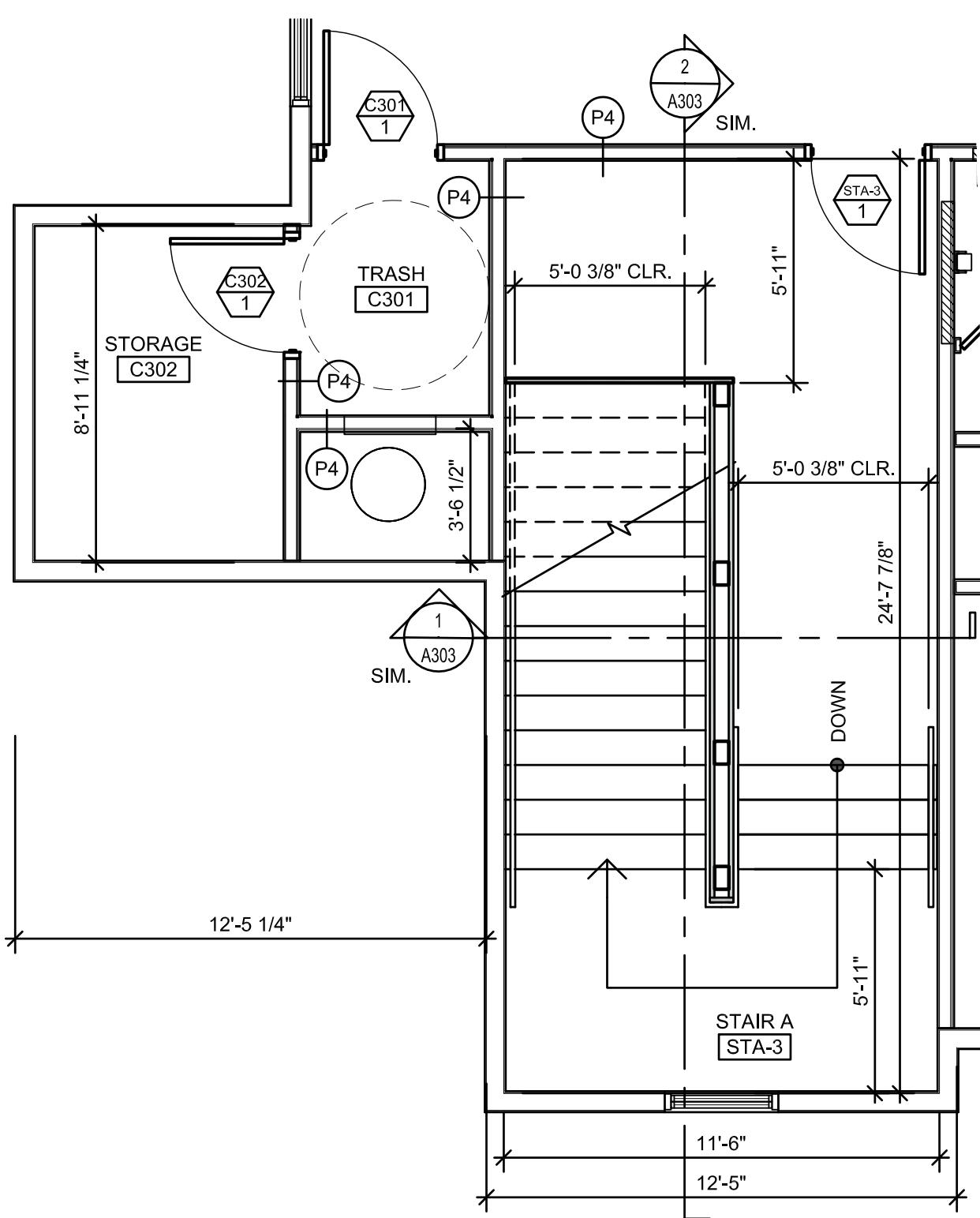
5 2ND FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



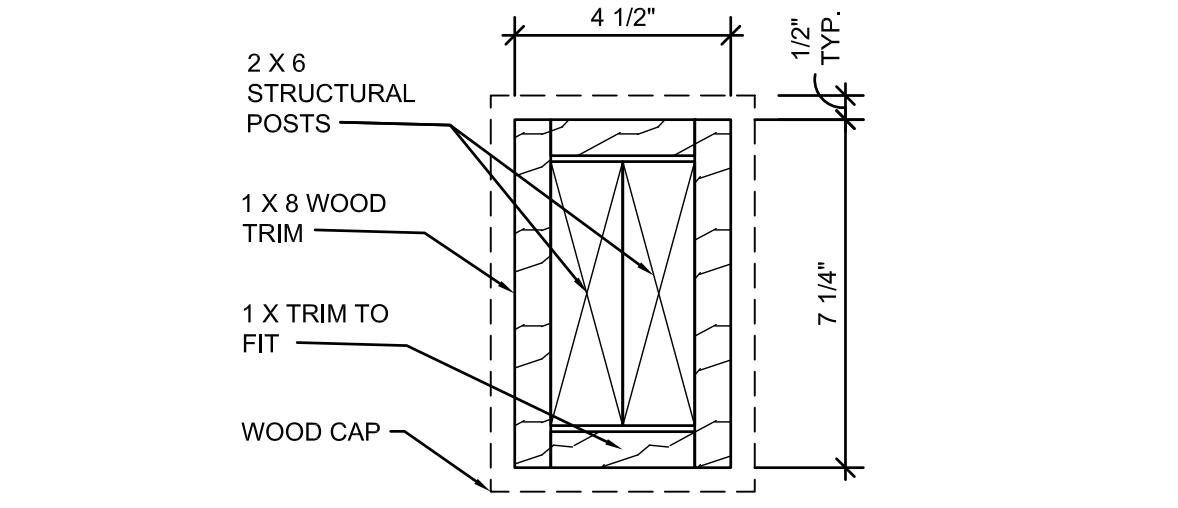
2 2ND FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



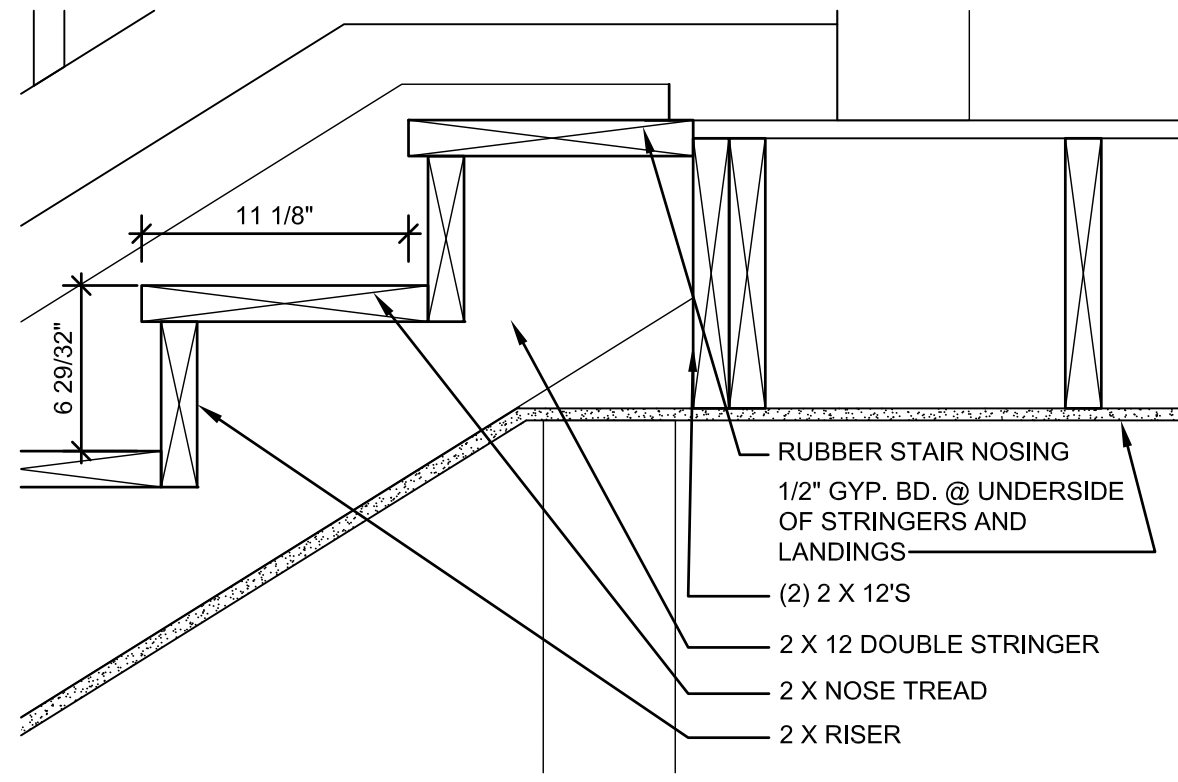
6 3RD FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



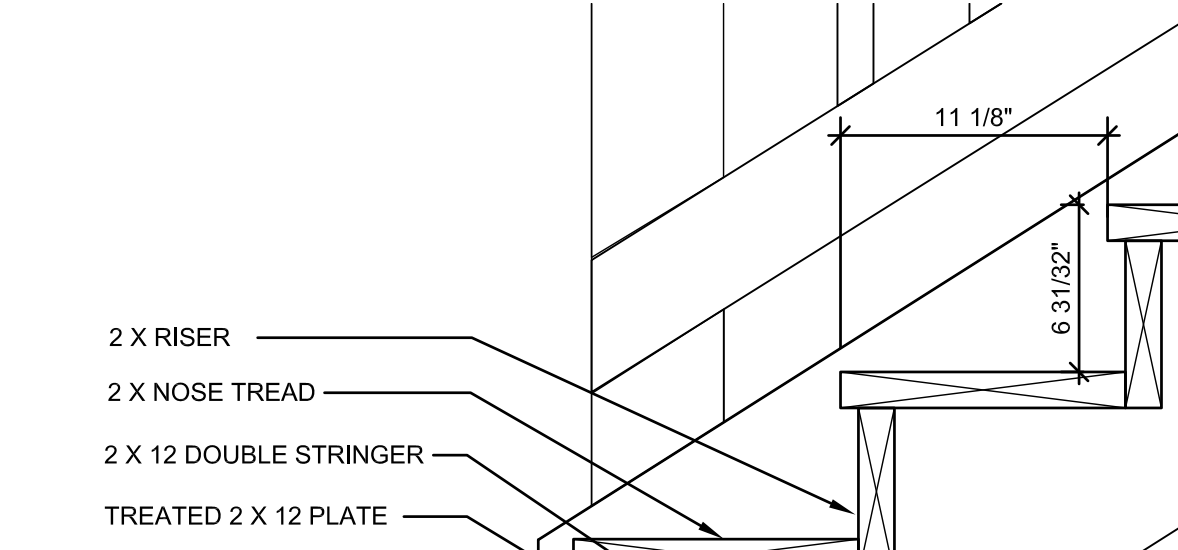
3 3RD FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



9 STAIR POST DETAIL
A302 SCALE: 3" = 1'-0"



8 STAIR TOP DETAIL
A302 SCALE: 1 1/2" = 1'-0"

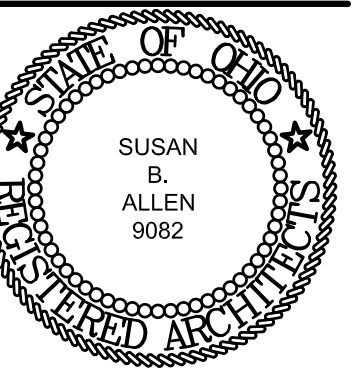


7 STAIR BOTTOM DETAIL
A302 SCALE: 1 1/2" = 1'-0"

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GENERAL NOTES

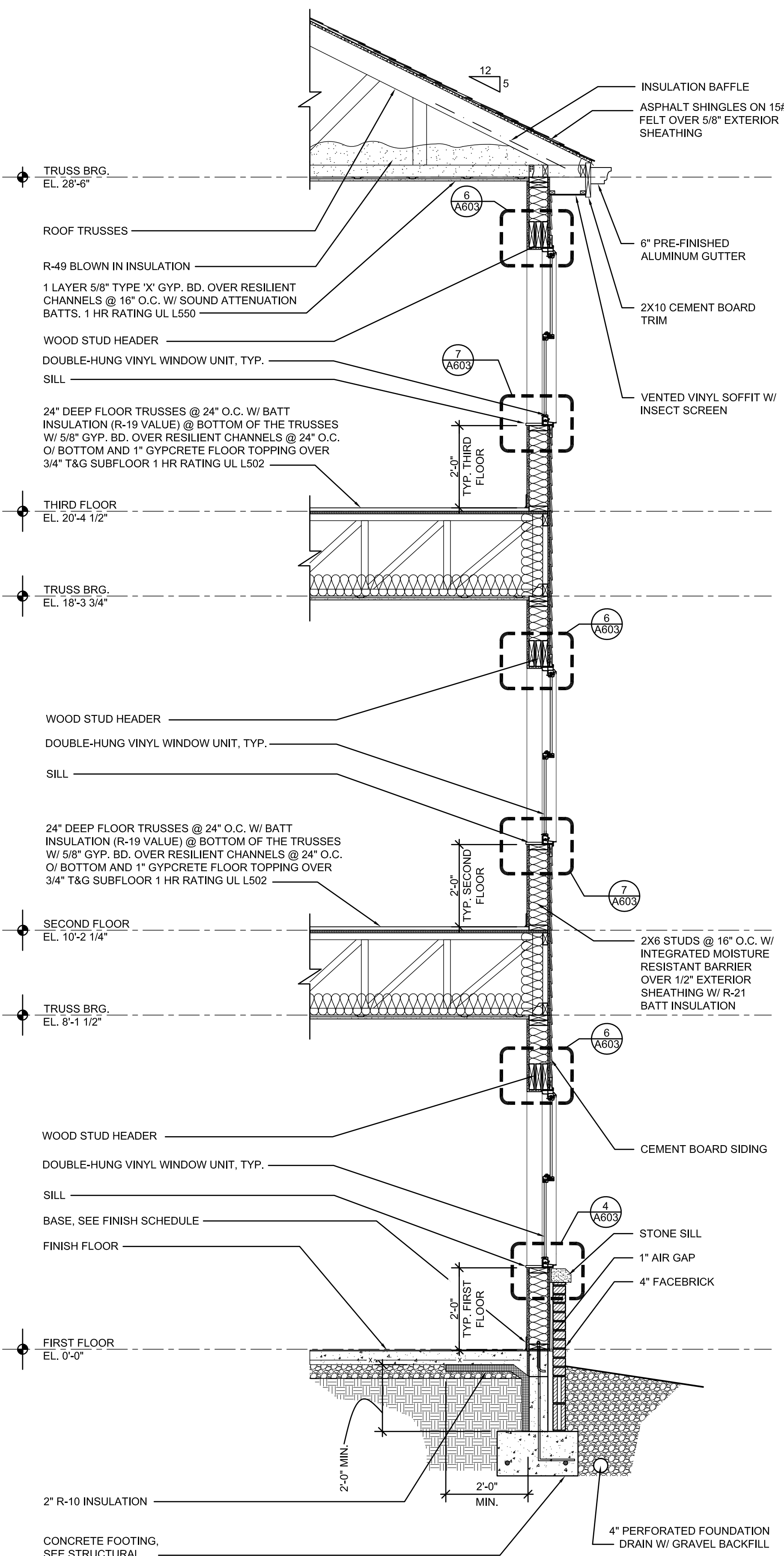
- ALL GUTTERS ARE TO HAVE LEAF GUARDS.



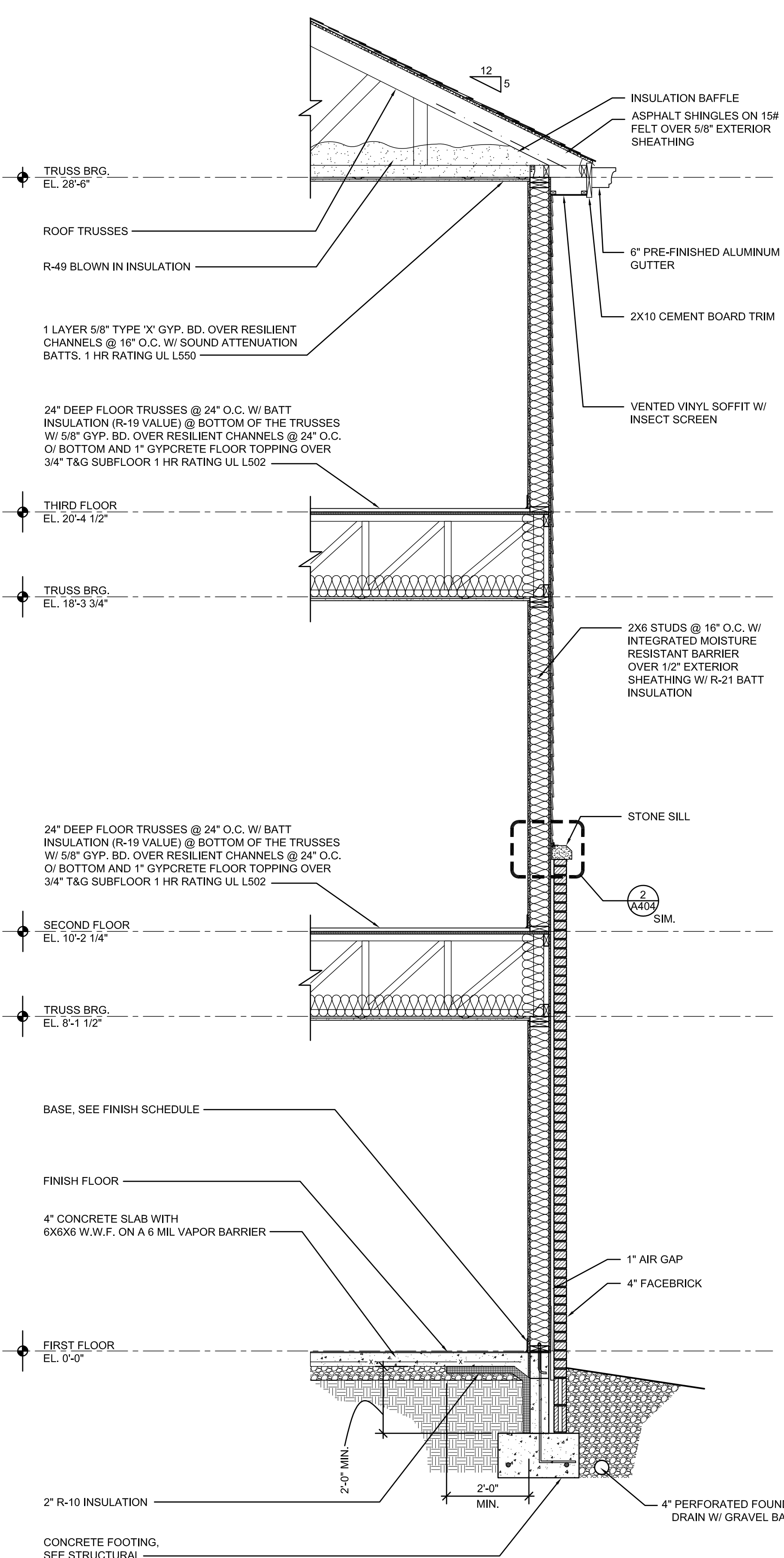
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Expiration Date 12/31/2023

REVISIONS

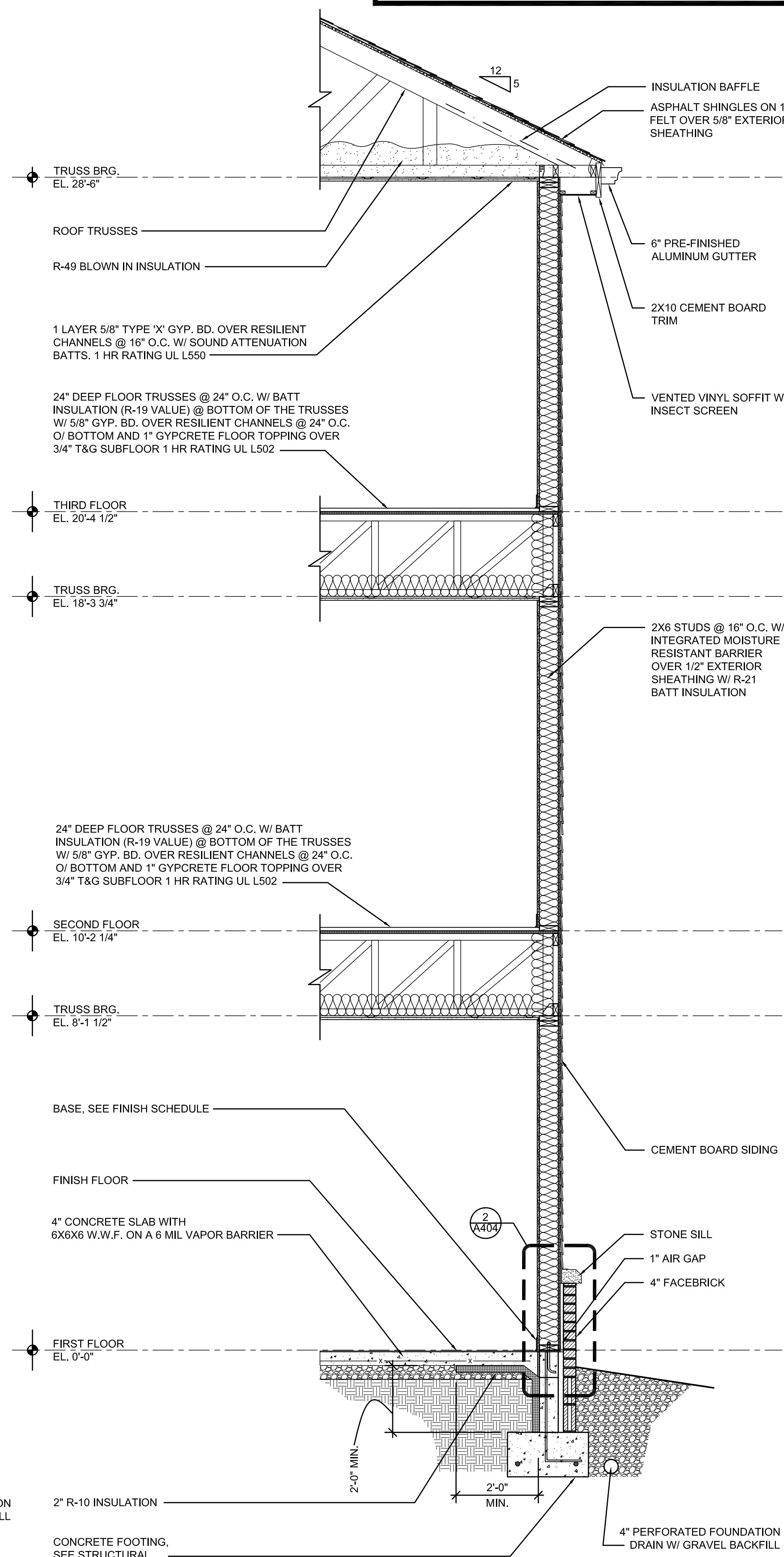
NO.	DESCRIPTION



3 WALL SECTION
A401 SCALE: 1/2" = 1'-0"



2 WALL SECTION
A401 SCALE: 1/2" = 1'-0"



1 WALL SECTION
A401 SCALE: 1/2" = 1'-0"

W:\GDP\Germantown Crossing-82A21\85D\dwgs\3CD\A401_A402.dwg Apr 03, 2023 - 9:04am

WALL SECTIONS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

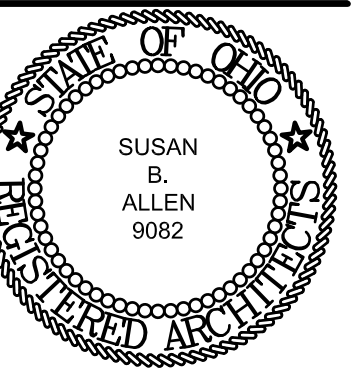
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03/31/2023
DATE

82A21
PROJECT NUMBER

A401
DRAWING NUMBER



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NO.	DESCRIPTION

WALL SECTIONS & DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
INTO REALITY

03/31/2023

DATE

82A21

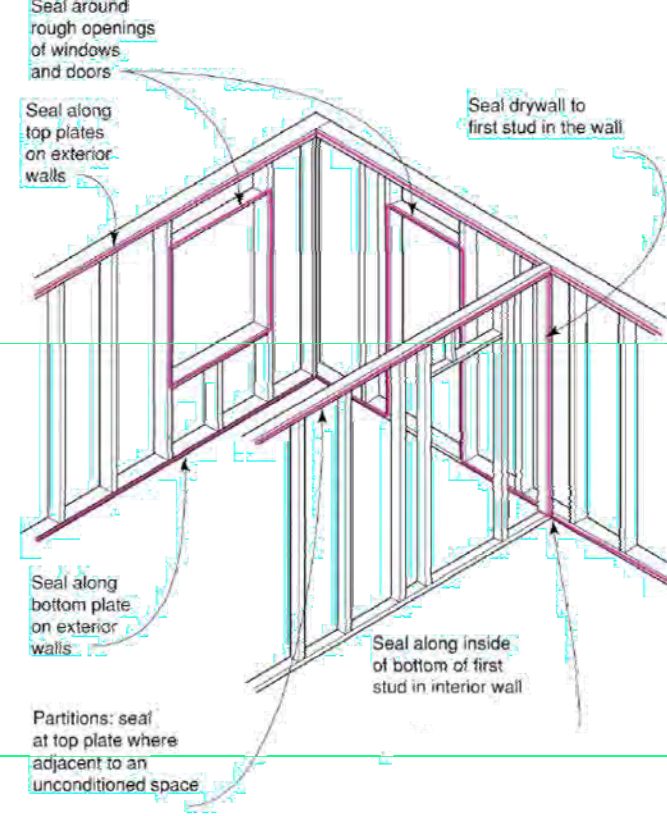
PROJECT NUMBER

A403

DRAWING NUMBER

General Air Sealing Recommendations for Green Programs

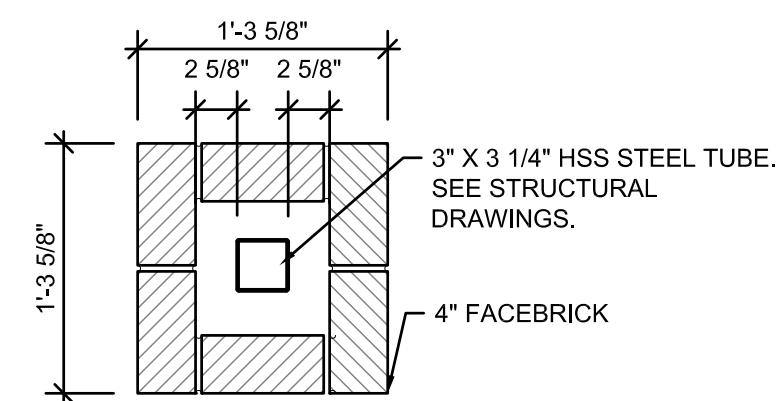
WHOLE UNIT COMPARTMENTALIZATION



Sealing Perimeter of Drywall Assemblies, AKA - Air Tight Drywall Approach

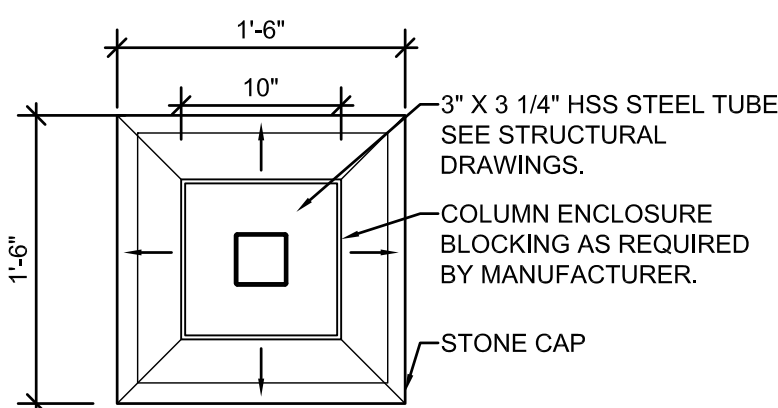
Air barrier continuity at the perimeter of drywall assemblies is achieved by sealing the edges of the drywall to solid framing materials. This requires a continuous bead of sealant along:

- All exterior wall bottom plates and top plates
- All top plates at insulated ceilings
- Rough opening perimeters
- Both sides of the first interior stud of partition walls



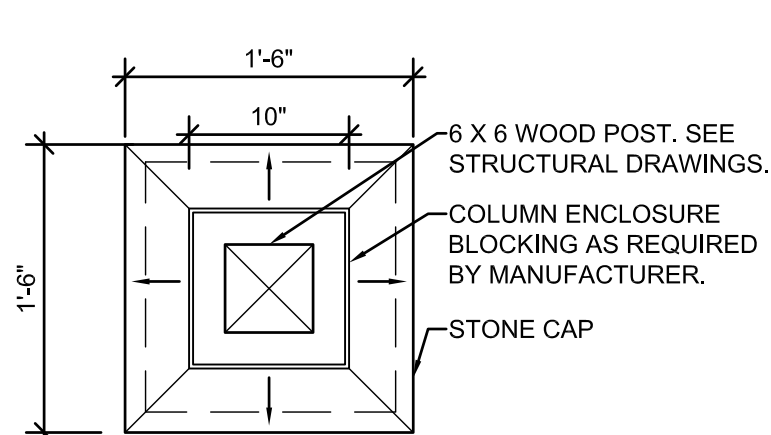
9 COLUMN DETAIL

A403 SCALE: 1" = 1'-0"



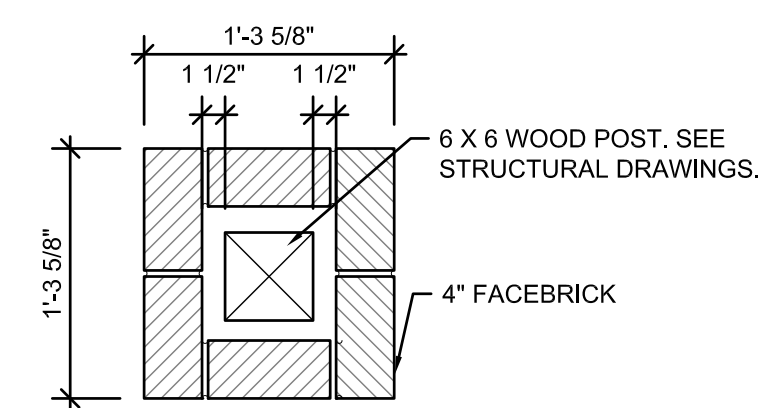
8 COLUMN DETAIL

A403 SCALE: 1" = 1'-0"



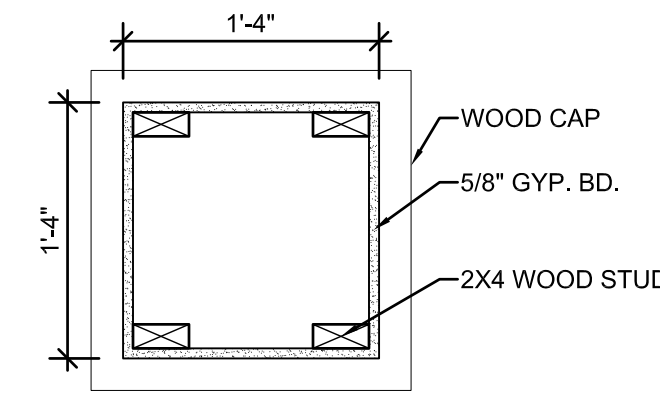
7 COLUMN DETAIL

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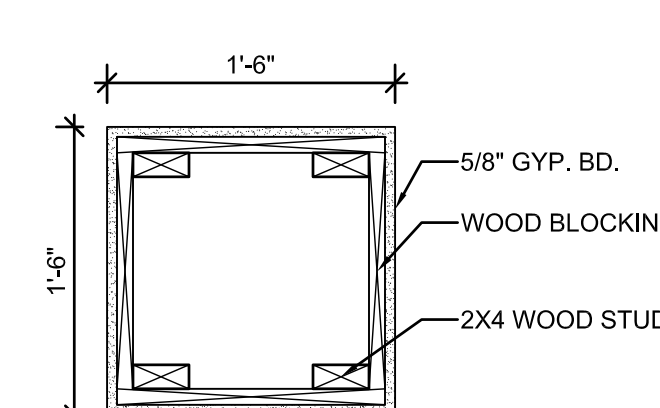
5 COLUMN DETAIL

A403 SCALE: 1" = 1'-0"



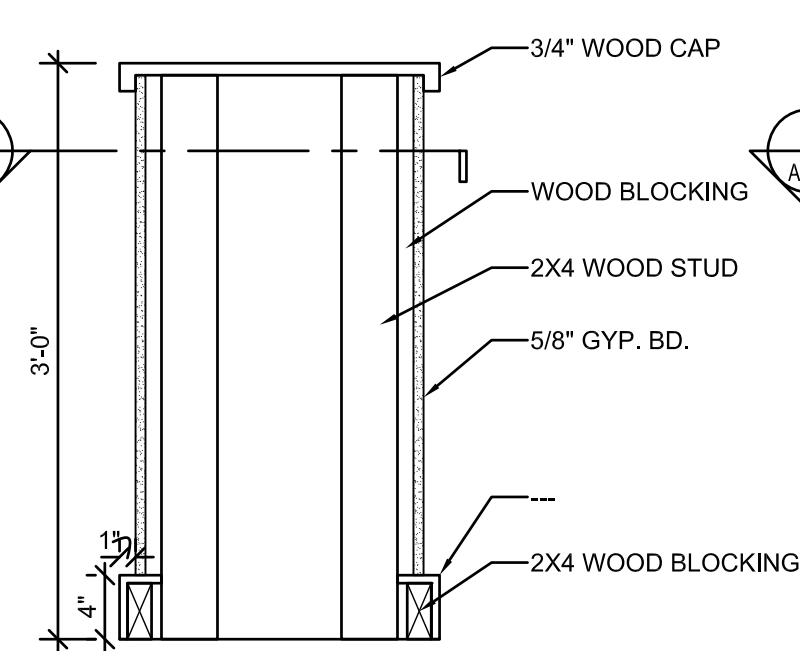
6 COLUMN DETAIL

A403 SCALE: 1" = 1'-0"



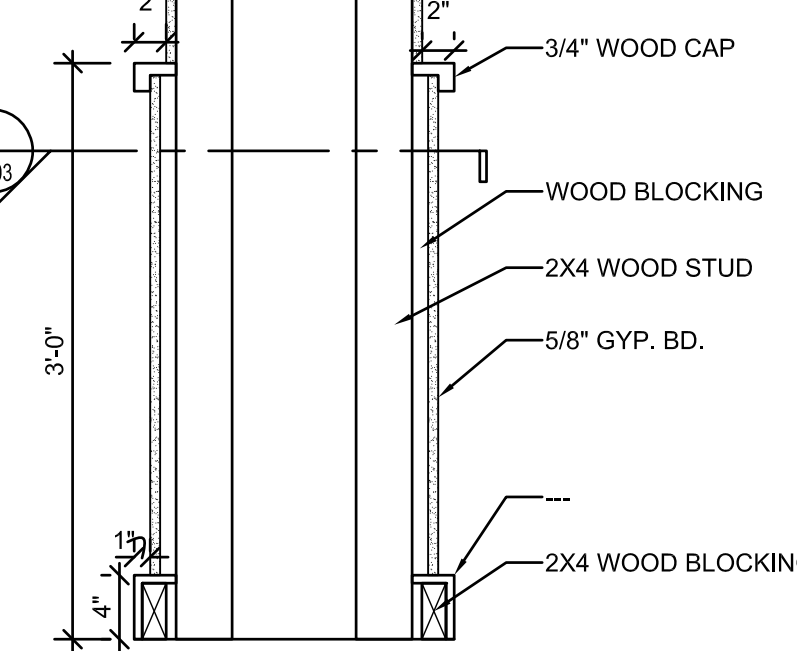
4 COLUMN DETAIL

A403 SCALE: 1" = 1'-0"



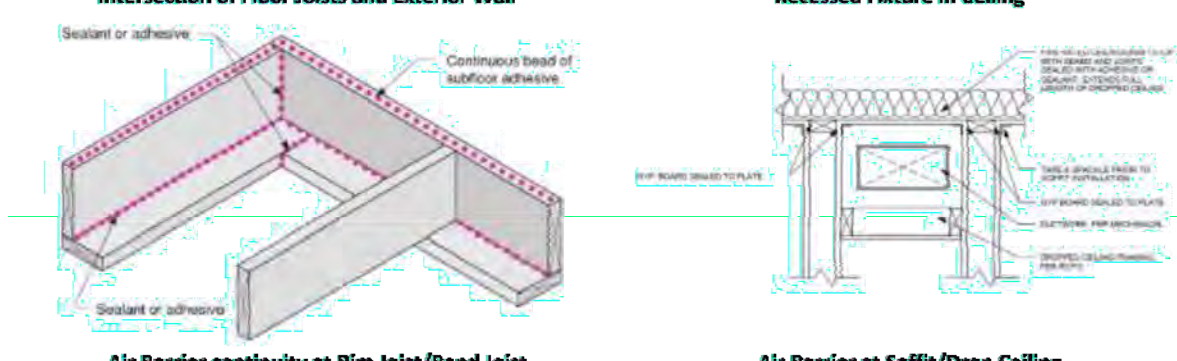
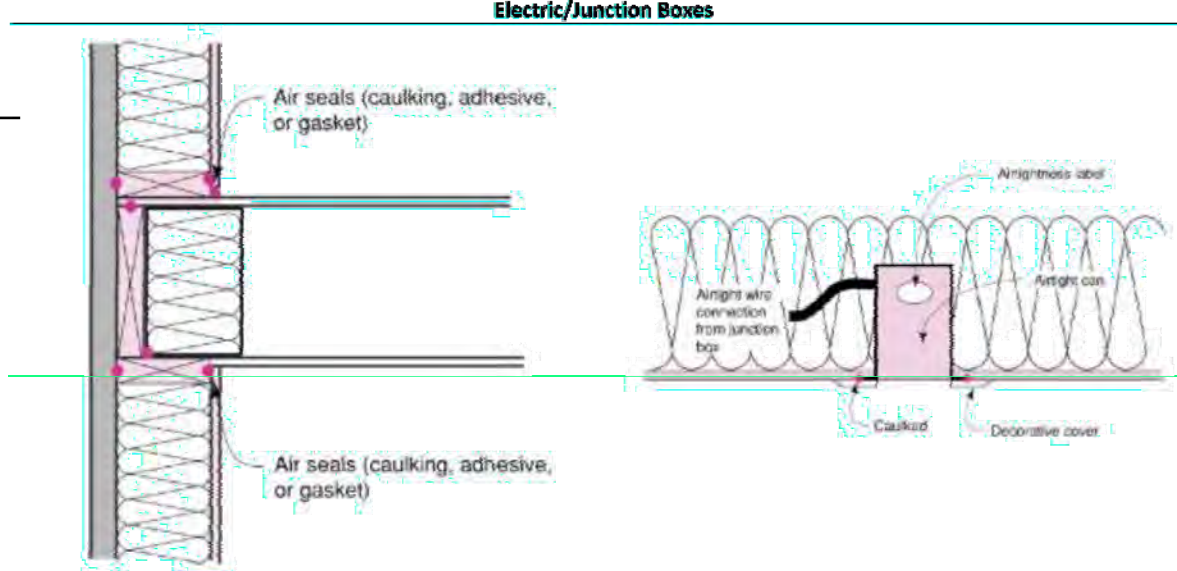
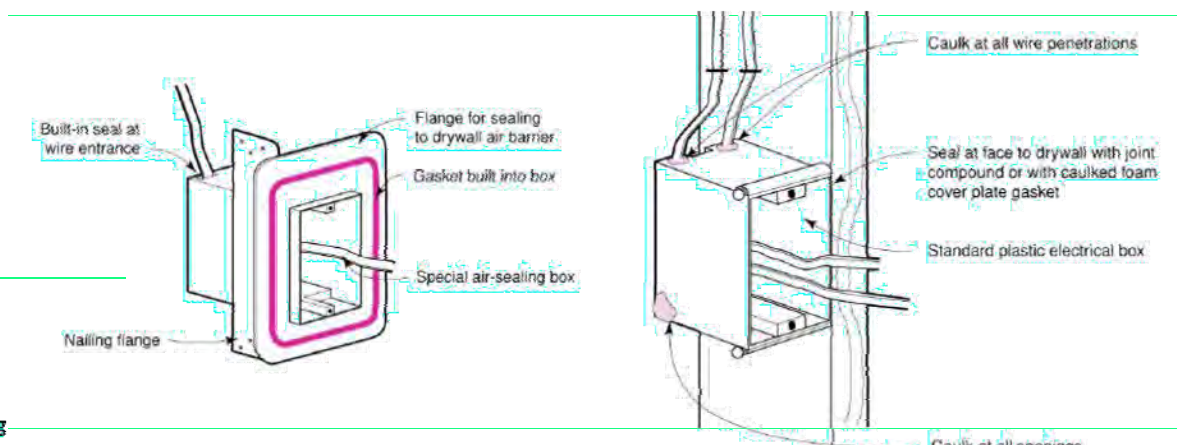
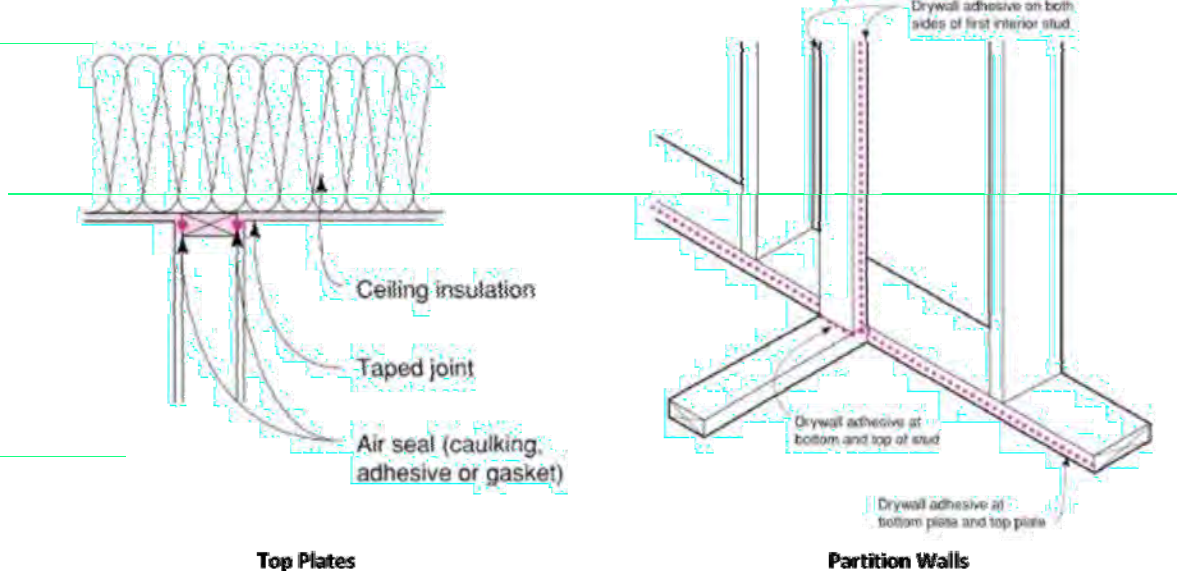
3 COLUMN SECTION

A403 SCALE: 1" = 1'-0"

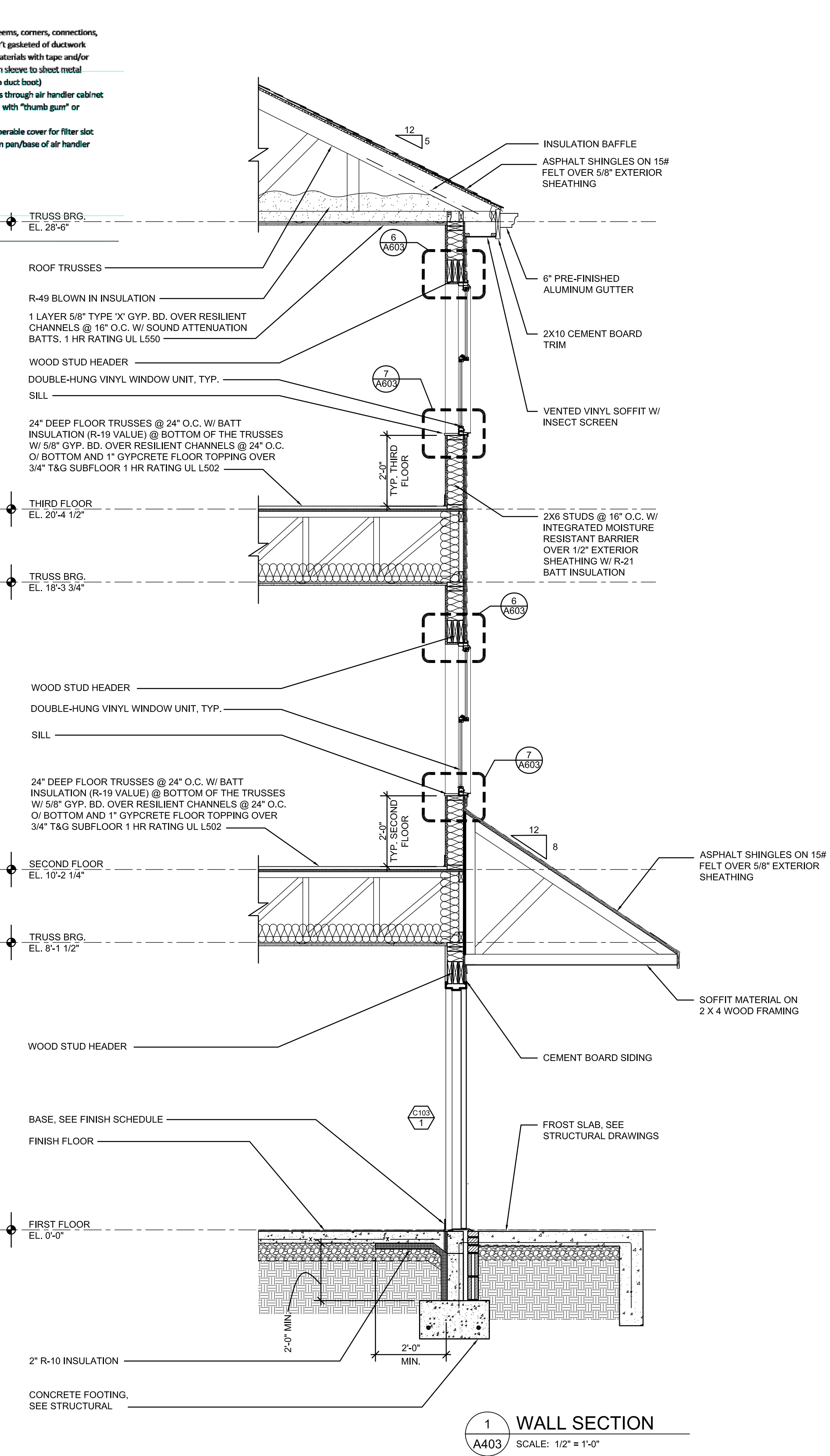
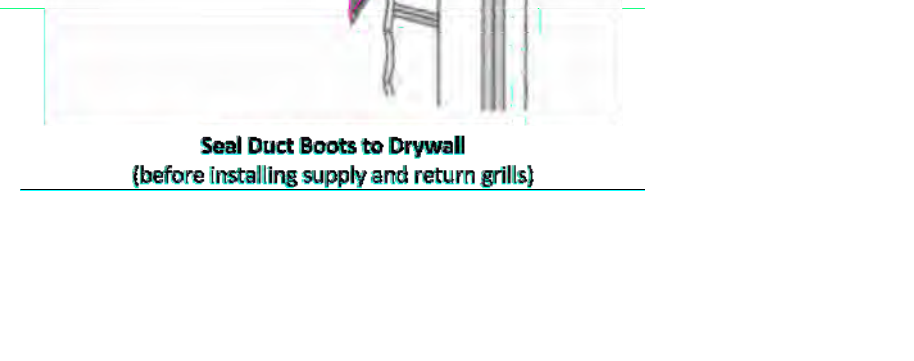
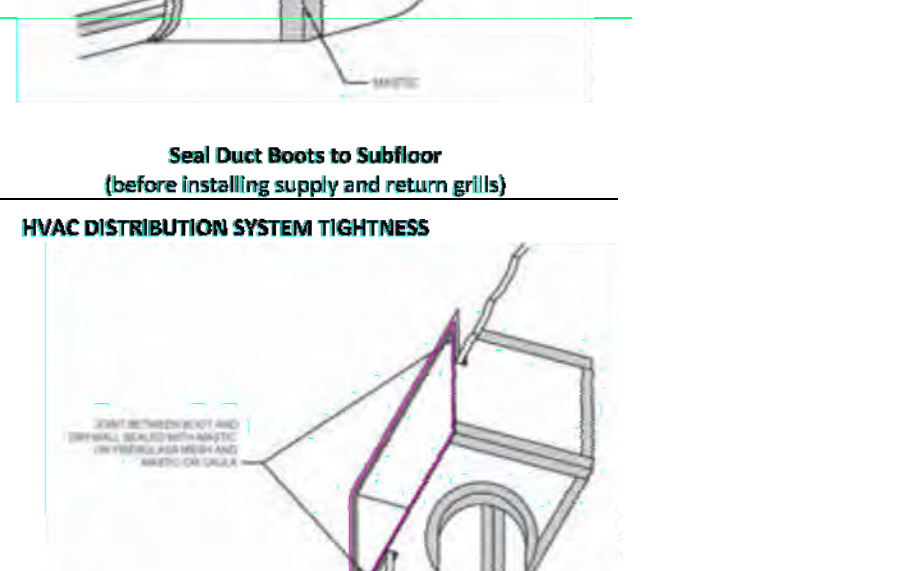
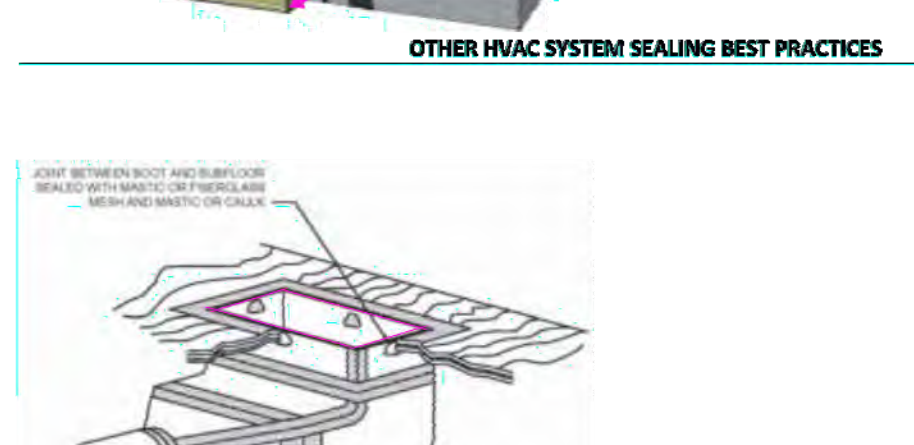
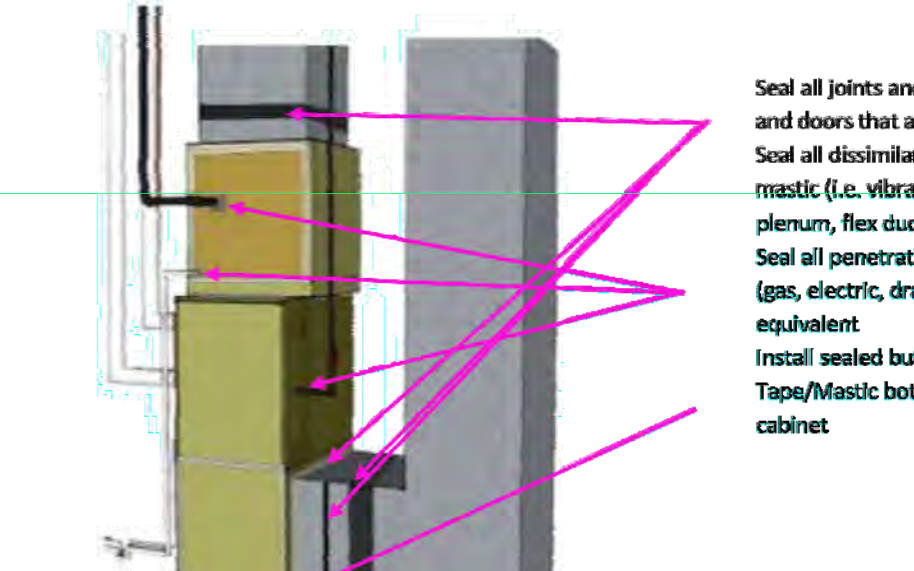


2 COLUMN SECTION

A403 SCALE: 1" = 1'-0"



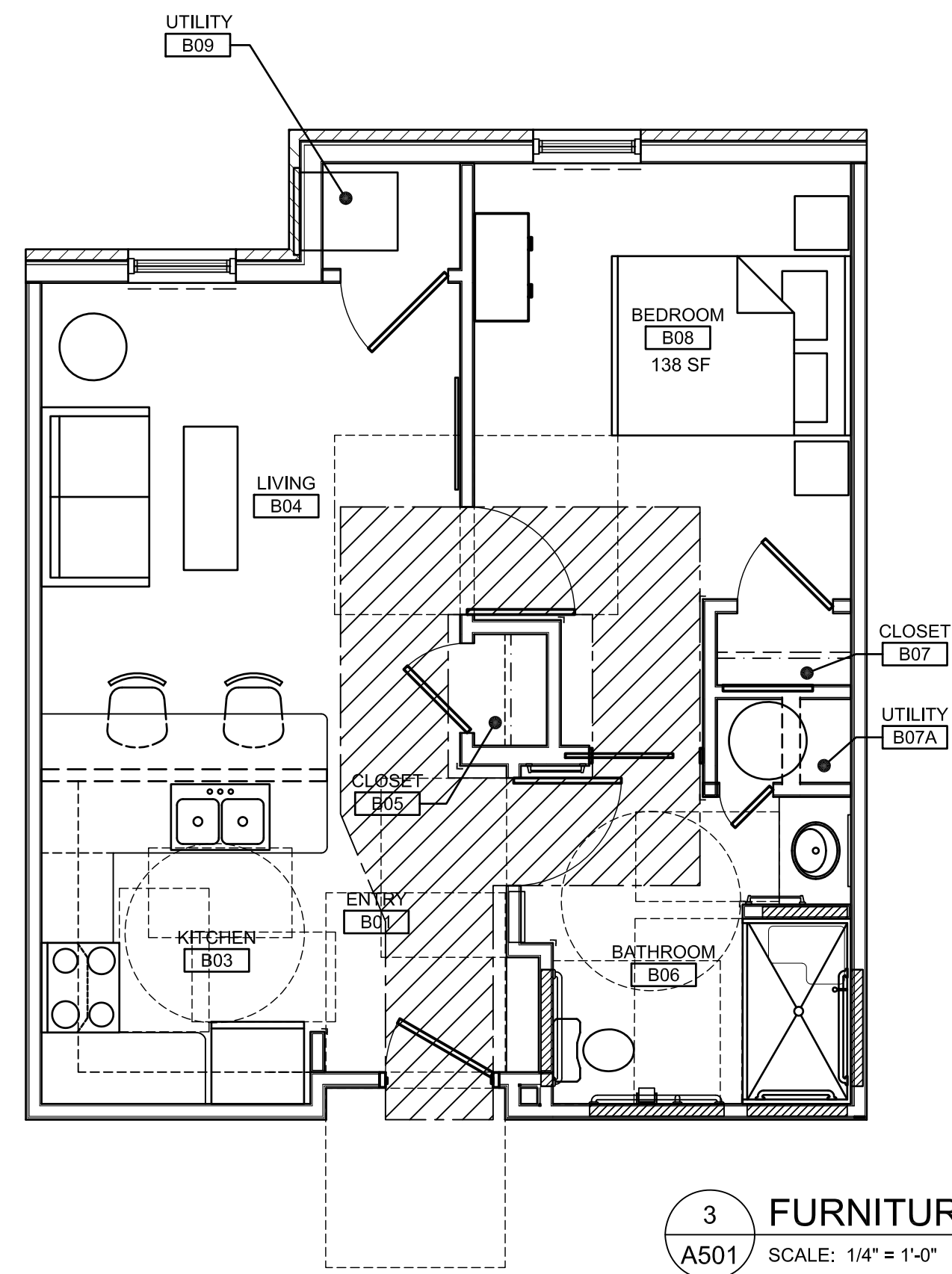
- OTHER ENVELOPE SEALING BEST PRACTICES
- Gaskets installed on attic access doors
 - Backdraft prevention mechanisms in place on all appliances (dryer, kitchen and bath exhausts)
 - Plumbing and electrical fixtures' penetrations sealed at drywall behind escutcheons
 - Circuit breaker panel and stud cavity isolated from adjacent building cavities
 - Seal plank flooring from below with flash coat of spray foam, or dense pack floor cavities with cellulose, or use other sealant



1 WALL SECTION

A403 SCALE: 1/2" = 1'-0"

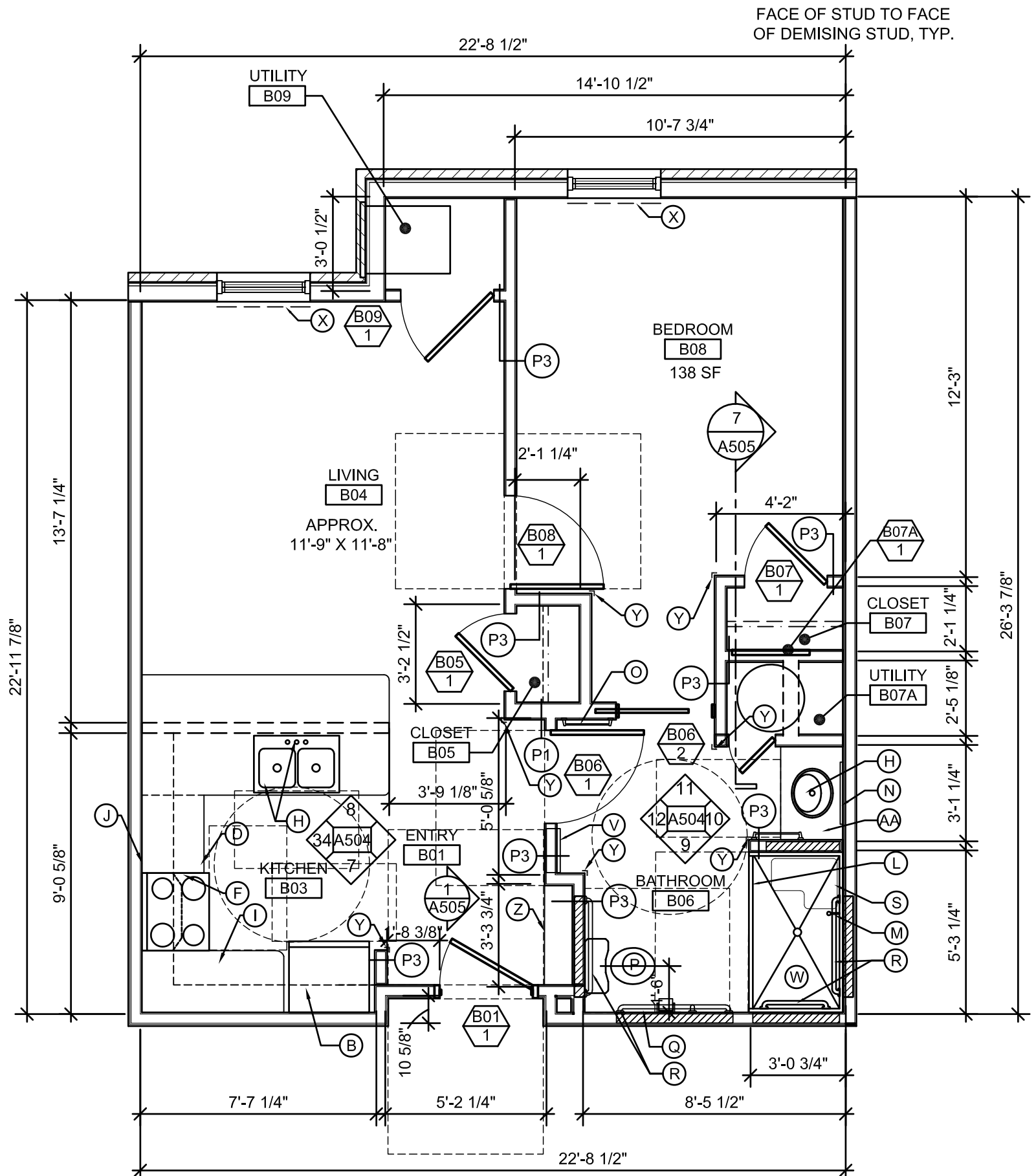
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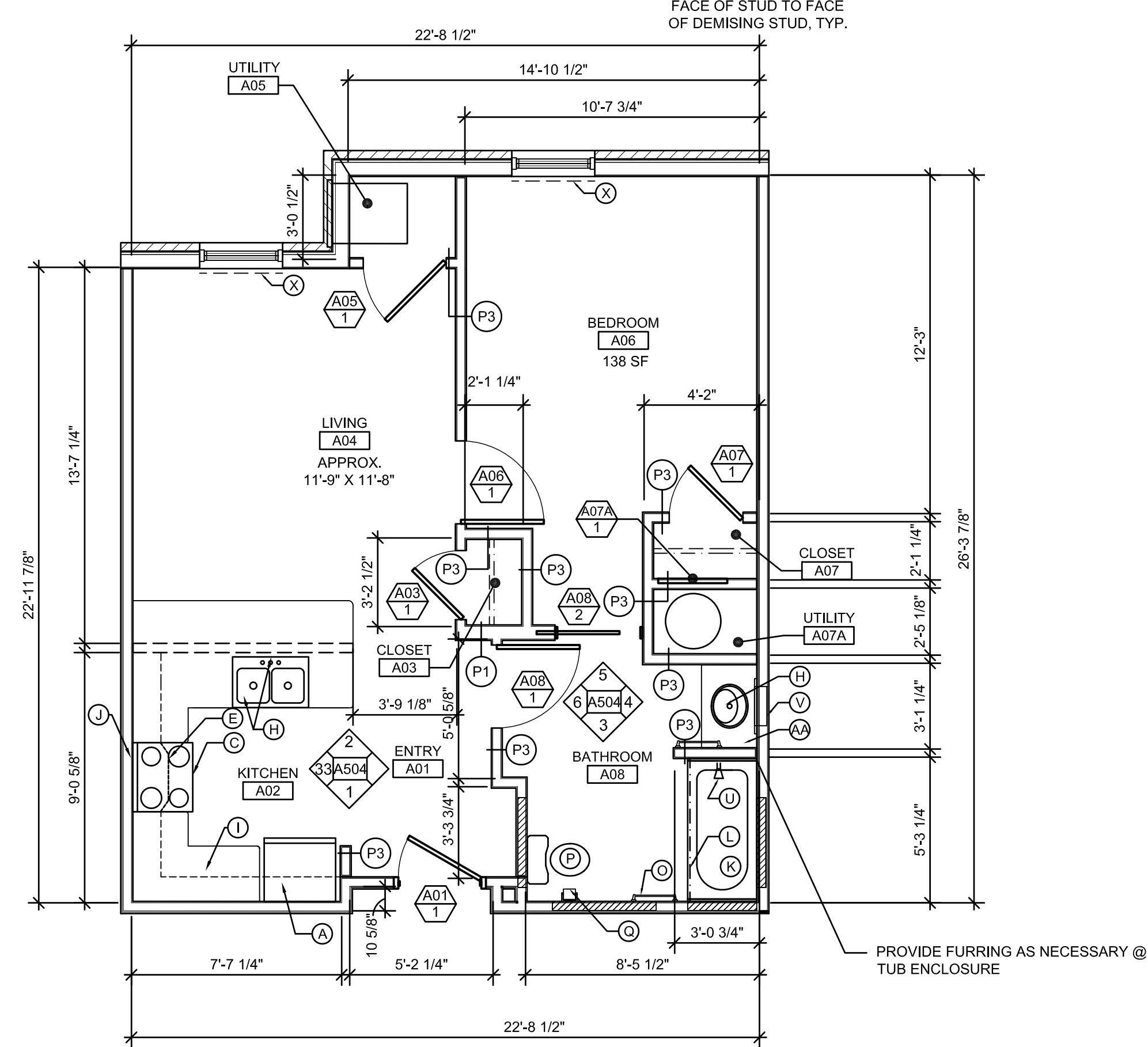
3 FURNITURE PLAN MU
A501 SCALE: 1/4" = 1'-0" *FOR REFERENCE ONLY*

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(O) 12" TOWEL BAR
(B) ACCESSIBLE REFRIGERATOR	(P) TOILET
(C) 30" SLIDE-IN RANGE	(Q) TOILET PAPER HOLDER
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(R) GRAB BAR
(E) RANGE HOOD	(S) REMOVABLE SHOWER SEAT
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(T) ADJUSTABLE SHELVING (5 TYP.)
(G) RANGE HOOD DUCT CHASE	(U) FIXED SHOWER HEAD
(H) SINK AND FAUCET	(V) MEDICINE CABINET
(I) COUNTERTOP W / SIDE AND BACKSPLASH	(W) FIBERGLASS SHOWER SURROUND
(J) GREASE SHIELD	(X) BLINDS
(K) BATHTUB & FIBERGLASS SURROUND	(Y) CORNER GUARDS
(L) FIXED SHOWER ROD	(Z) RECESSED BRACKETS W/ 5 SHELVES
(M) ADJUSTABLE SHOWER HEAD	(AA) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(N) SURFACE MOUNTED MIRROR	

- GENERAL NOTES**
- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
 - ALL DRAWERS AND CABINETS ARE TO HAVE LOOP PULLS.
 - ALL LINEN TO HAVE 5 ADJUSTABLE SHELVES
 - STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES



2 ONE BEDROOM MU
A501 SCALE: 1/4" = 1'-0"



1 ONE BEDROOM
A501 SCALE: 1/4" = 1'-0"



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License #9082
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REVISIONS

ONE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



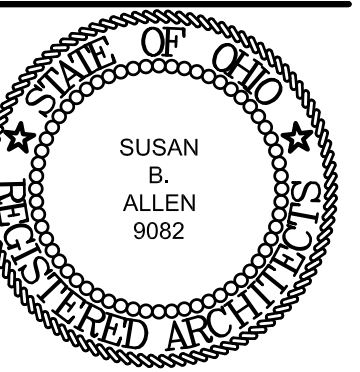
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DATE

82A21
PROJECT NUMBER

A501
DRAWING NUMBER

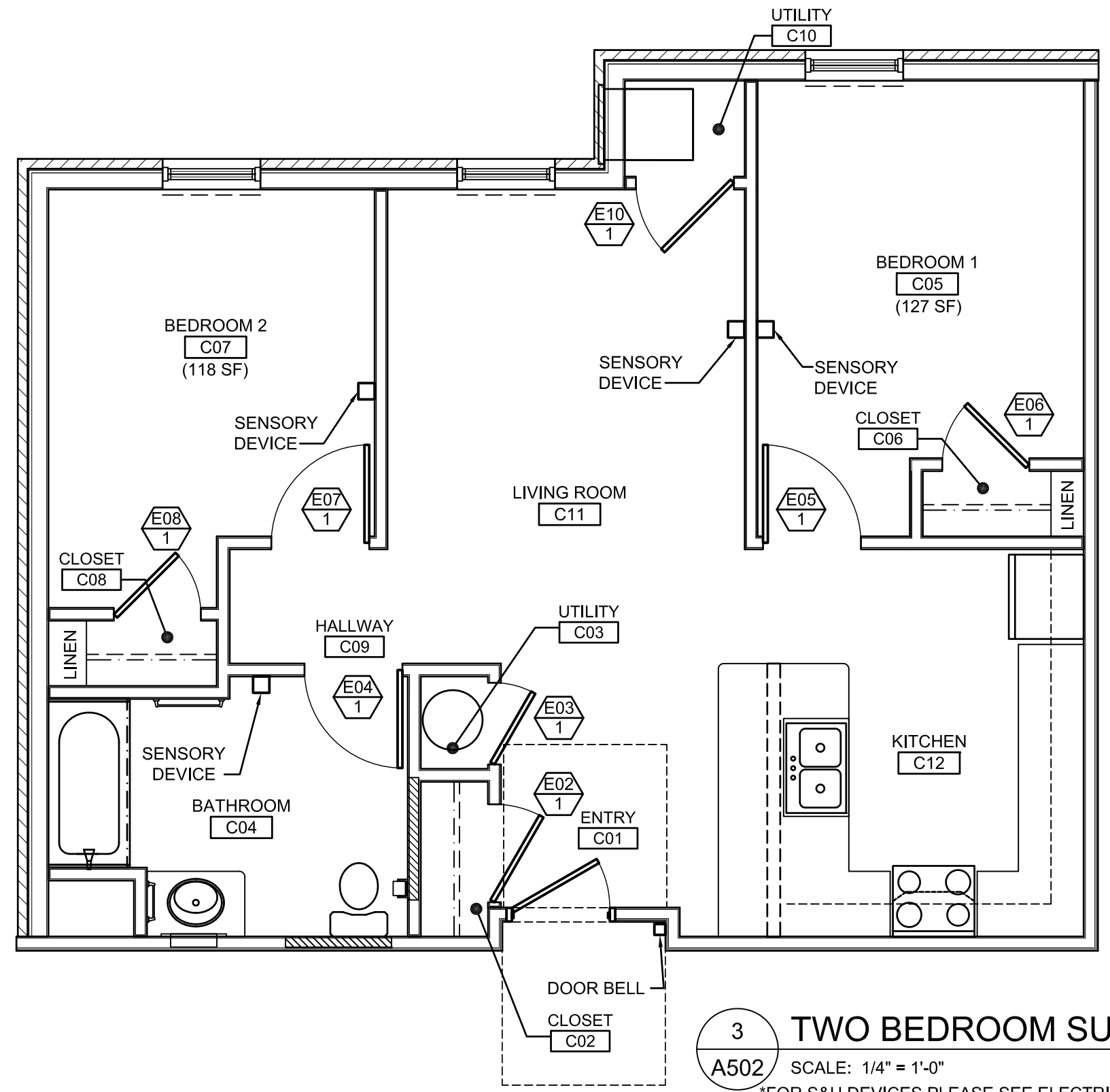


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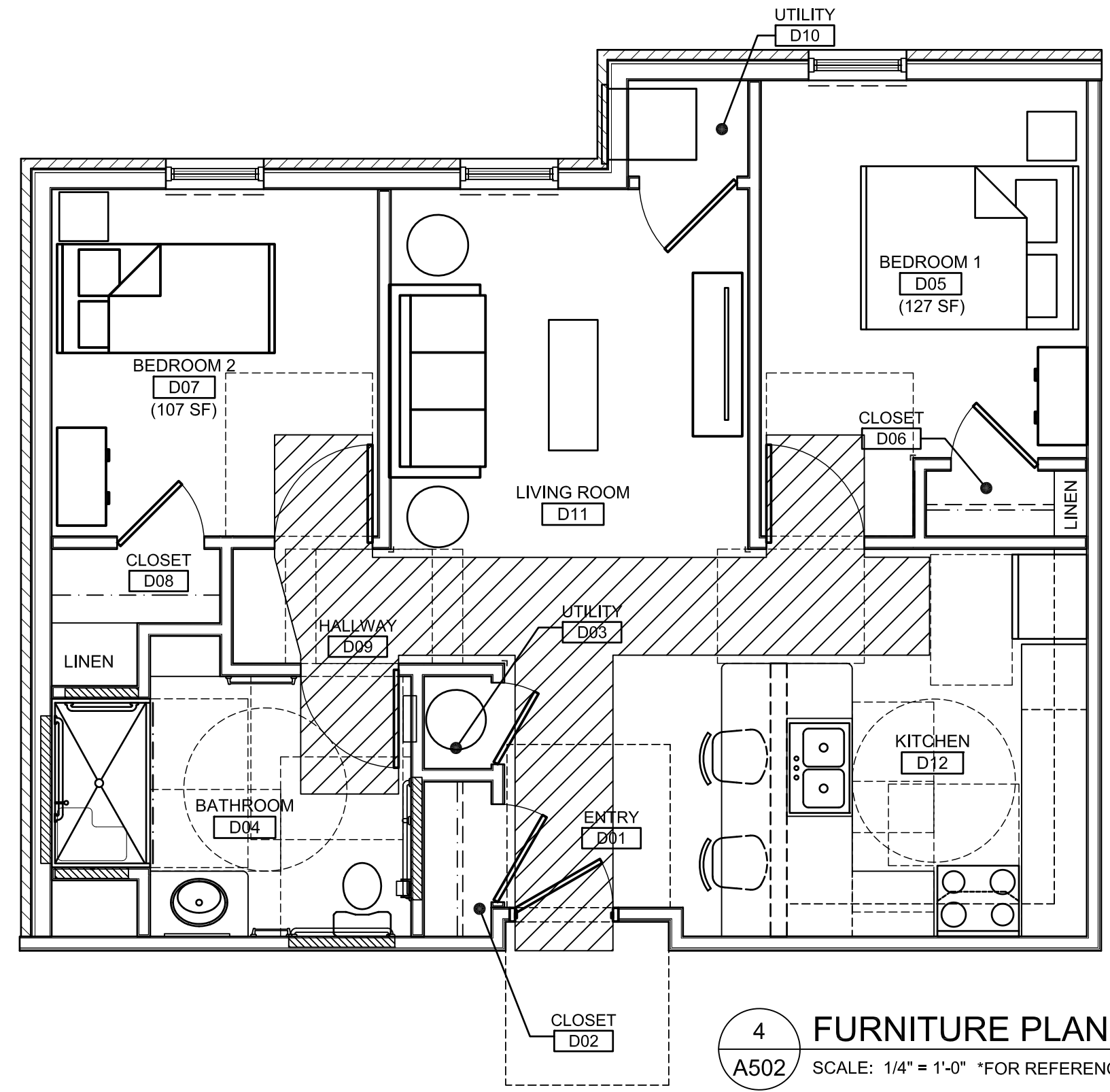
REVISIONS

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(O) 12" TOWEL BAR
(B) ACCESSIBLE REFRIGERATOR	(P) TOILET
(C) 30" SLIDE-IN RANGE	(Q) TOILET PAPER HOLDER
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(R) GRAB BAR
(E) RANGE HOOD	(S) REMOVABLE SHOWER SEAT
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(T) ADJUSTABLE SHELVING (5 TYP.)
(G) RANGE HOOD DUCT CHASE	(U) FIXED SHOWER HEAD
(H) SINK AND FAUCET	(V) MEDICINE CABINET
(I) COUNTERTOP W / SIDE AND BACKSPLASH	(W) FIBERGLASS SHOWER SURROUND
(J) GREASE SHIELD	(X) BLINDS
(K) BATHTUB & FIBERGLASS SURROUND	(Y) CORNER GUARDS
(L) FIXED SHOWER ROD	(Z) RECESSED BRACKETS W/ 5 SHELVES
(M) ADJUSTABLE SHOWER HEAD	(AA) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(N) SURFACE MOUNTED MIRROR	

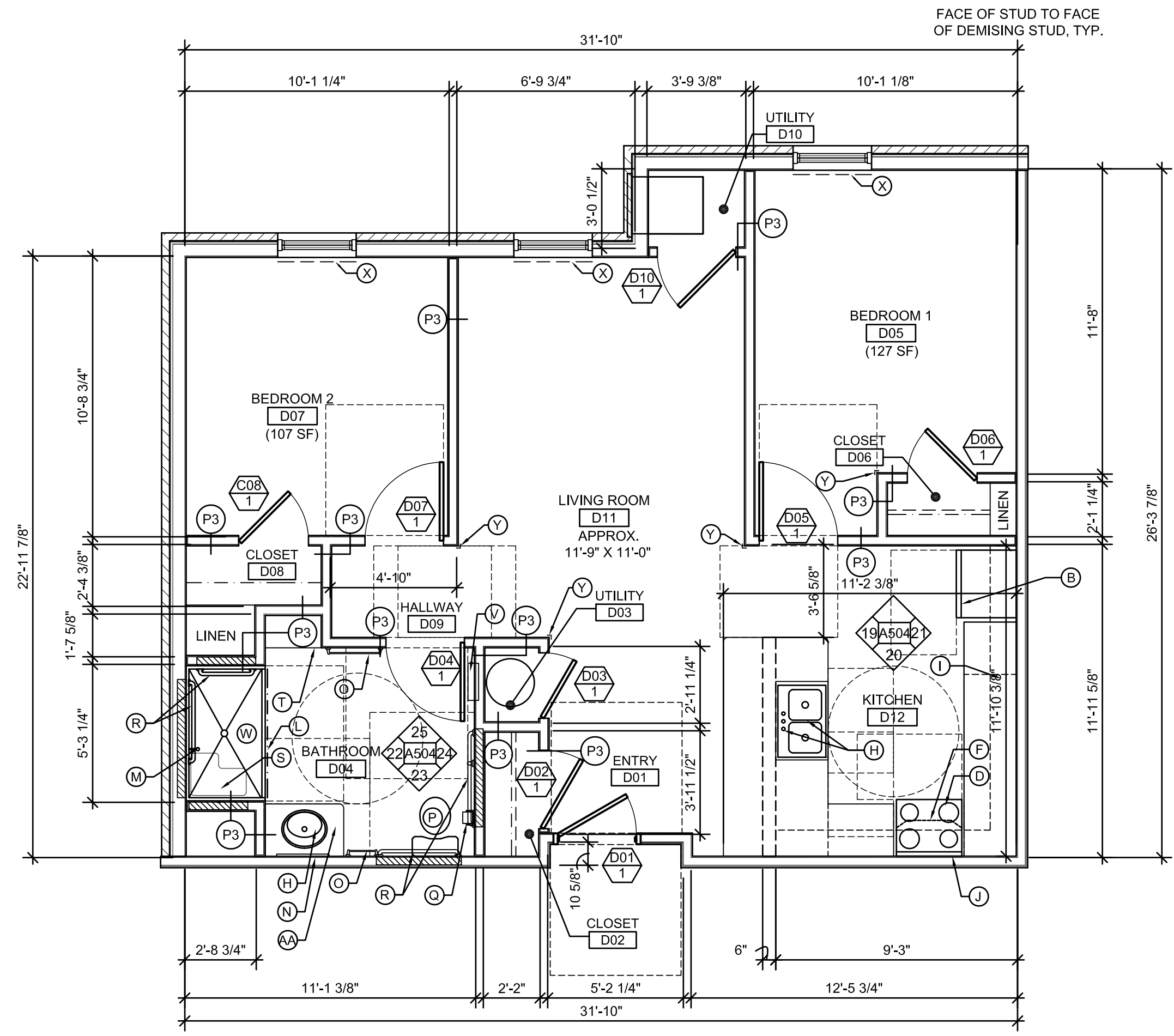
GENERAL NOTES	
1. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.	
2. ALL DRAWERS AND CABINETS ARE TO HAVE LOOP PULLS.	
3. ALL LINEN TO HAVE 5 ADJUSTABLE SHELVES	
4. STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES	



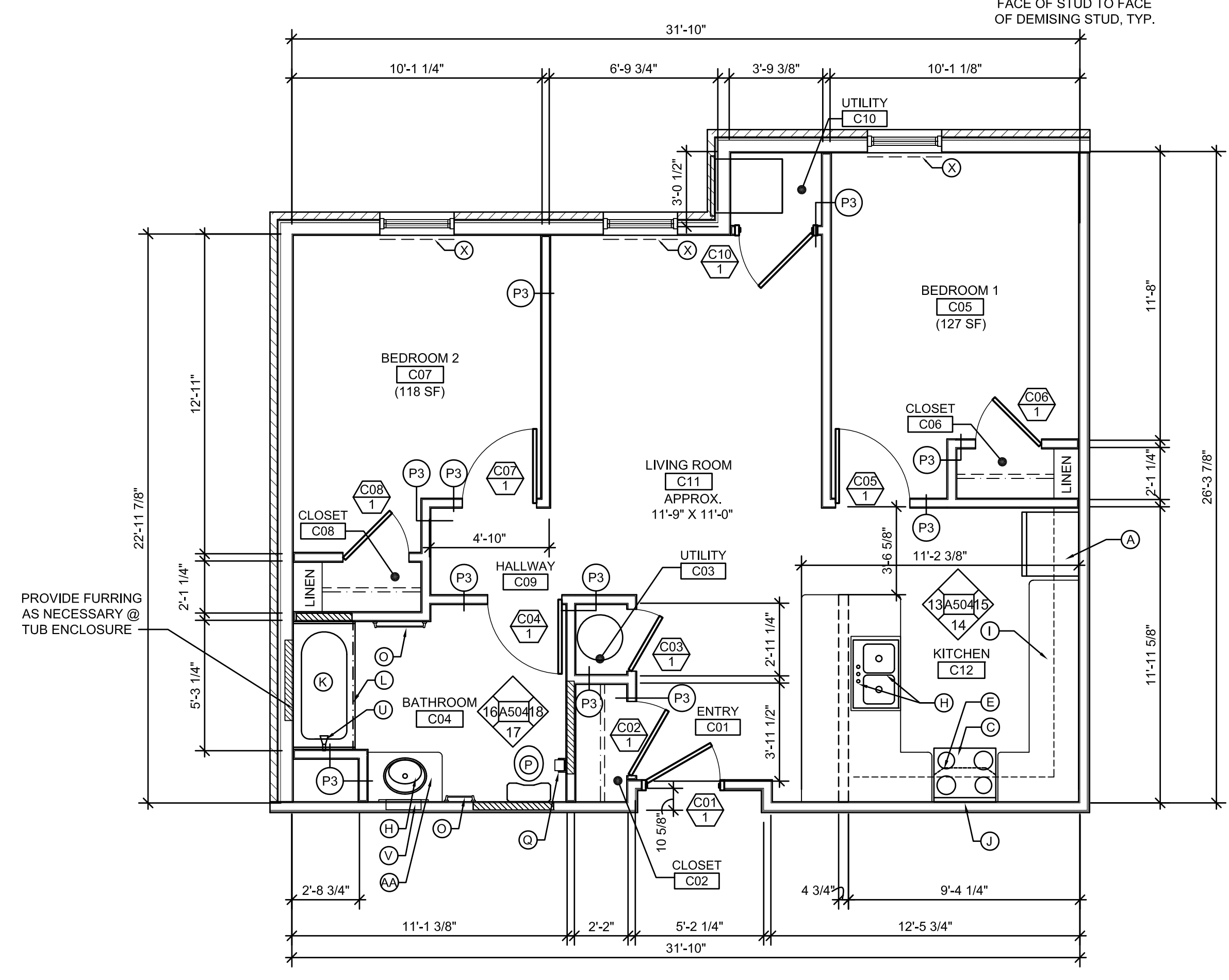
3 TWO BEDROOM SU
A502 SCALE: 1/4" = 1'-0"
FOR S&H DEVICES PLEASE SEE ELECTRICAL DRAWINGS
FOR DIMS AND CODED NOTES PLEASE SEE 1 / A502



4 FURNITURE PLAN MU
A502 SCALE: 1/4" = 1'-0" *FOR REFERENCE ONLY*



2 TWO BEDROOM MU
A502 SCALE: 1/4" = 1'-0"



1 TWO BEDROOM
A502 SCALE: 1/4" = 1'-0"

TWO BEDROOM PLANS
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03/31/2023

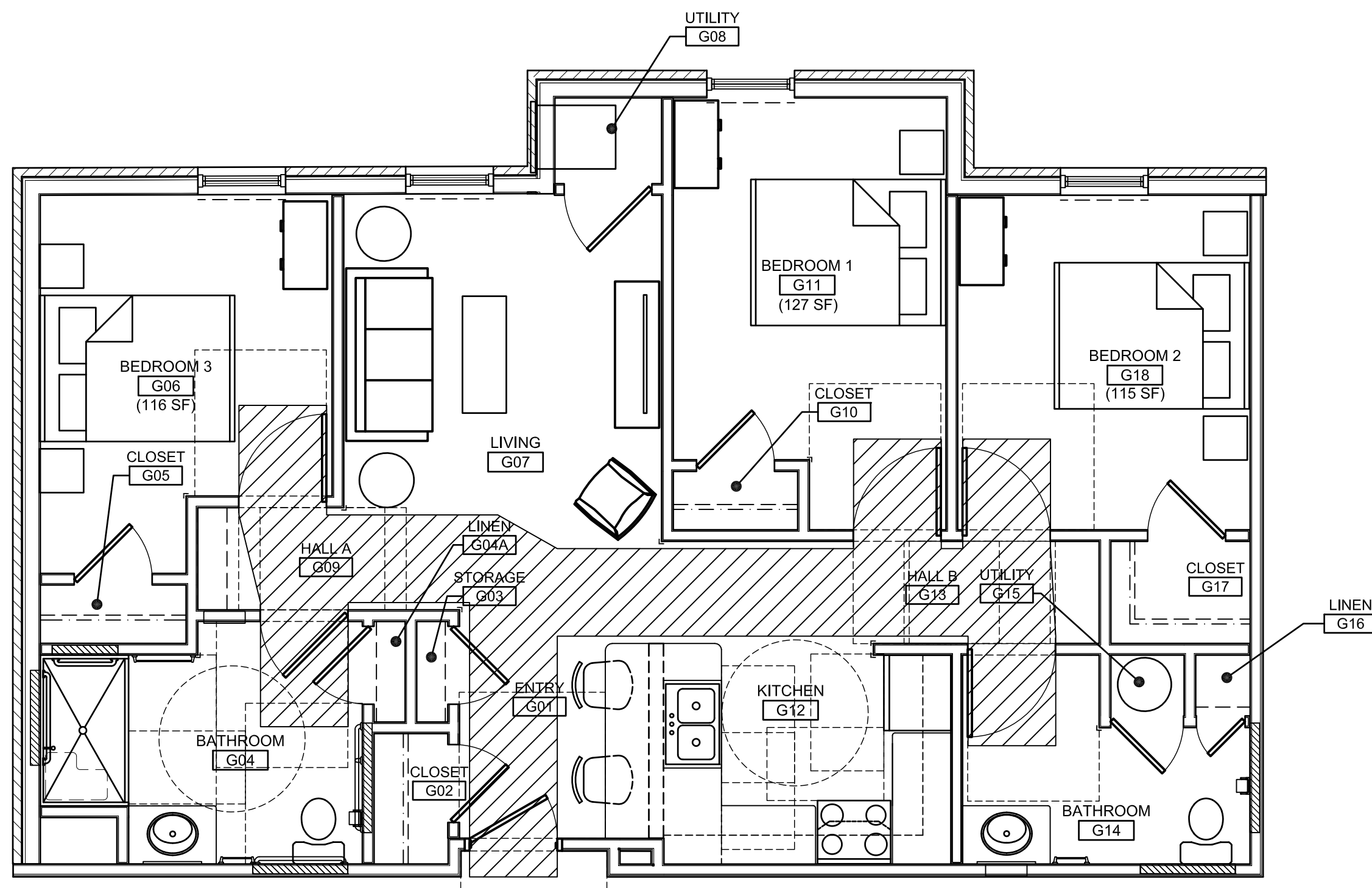
DATE

82A21

PROJECT NUMBER

A502

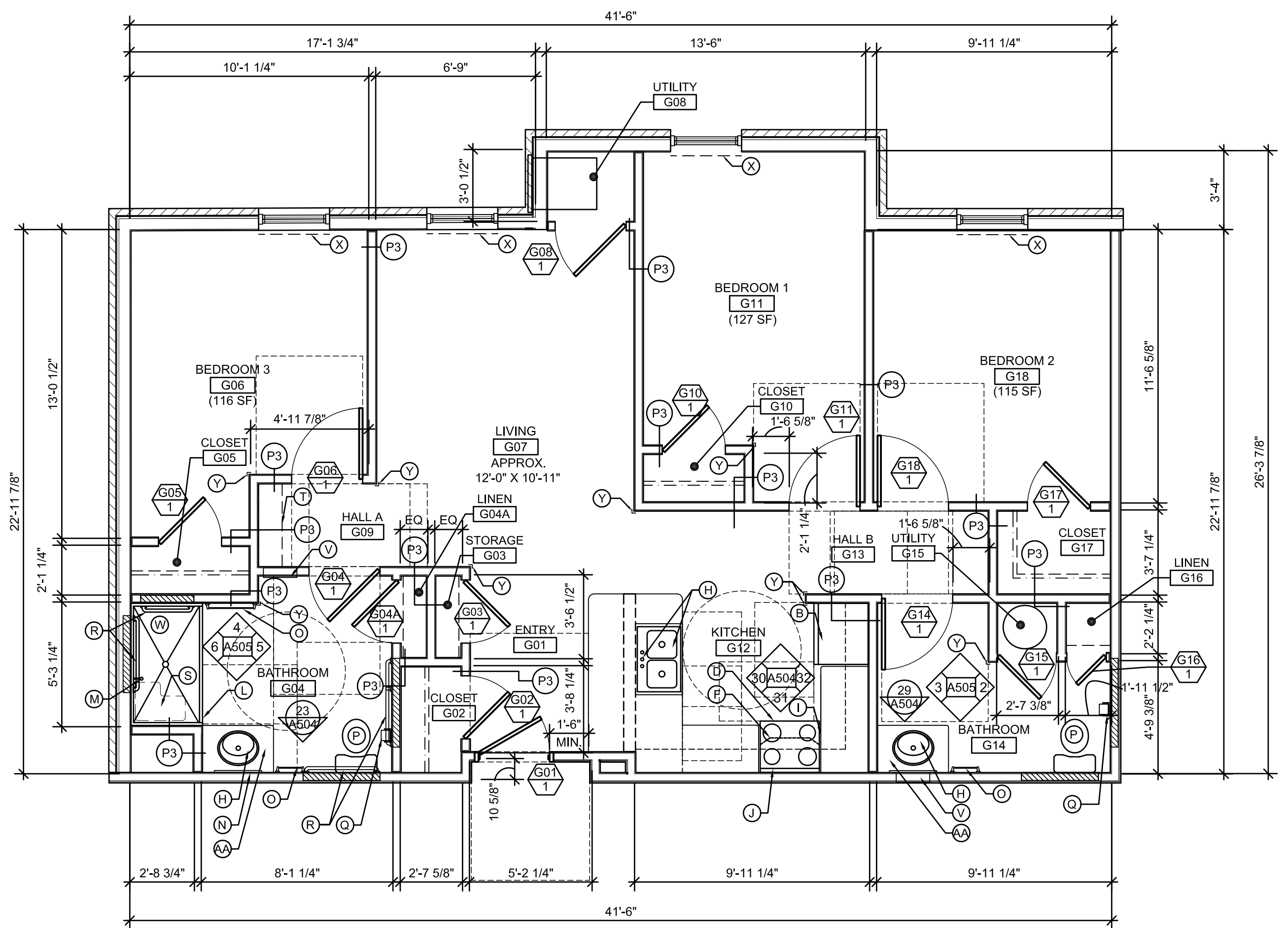
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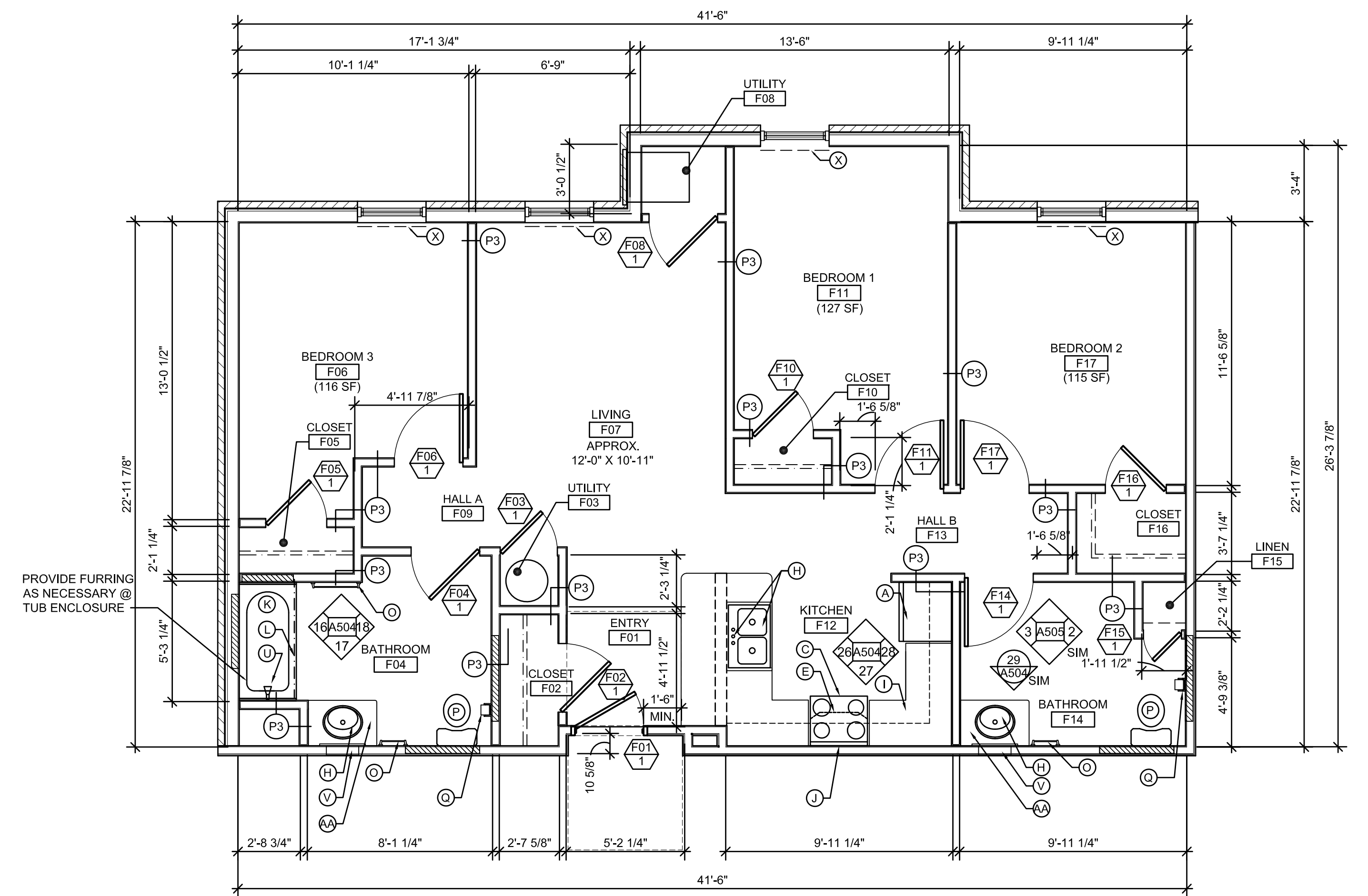
3 FURNITURE PLAN MU
A503 SCALE: 1/4" = 1'-0" *FOR REFERENCE ONLY*

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(O) 12" TOWEL BAR
(B) ACCESSIBLE REFRIGERATOR	(P) TOILET
(C) 30" SLIDE-IN RANGE	(Q) TOILET PAPER HOLDER
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(R) GRAB BAR
(E) RANGE HOOD	(S) REMOVABLE SHOWER SEAT
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(T) ADJUSTABLE SHELVING (5 TYP.)
(G) RANGE HOOD DUCT CHASE	(U) FIXED SHOWER HEAD
(H) SINK AND FAUCET	(V) MEDICINE CABINET
(I) COUNTERTOP W / SIDE AND BACKSPLASH	(W) FIBERGLASS SHOWER SURROUND
(J) GREASE SHIELD	(X) BLINDS
(K) BATHTUB & FIBERGLASS SURROUND	(Y) CORNER GUARDS
(L) FIXED SHOWER ROD	(Z) RECESSED BRACKETS W/ 5 SHELVES
(M) ADJUSTABLE SHOWER HEAD	(AA) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(N) SURFACE MOUNTED MIRROR	

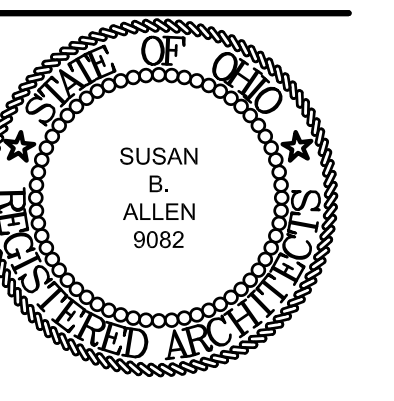
- GENERAL NOTES**
- ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
 - ALL DRAWERS AND CABINETS ARE TO HAVE LOOP PULLS.
 - ALL LINEN TO HAVE 5 ADJUSTABLE SHELVES
 - STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES



2 THREE BEDROOM MU
A503 SCALE: 1/4" = 1'-0"



1 THREE BEDROOM
A503 SCALE: 1/4" = 1'-0"



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

NO.	DESCRIPTION

THREE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



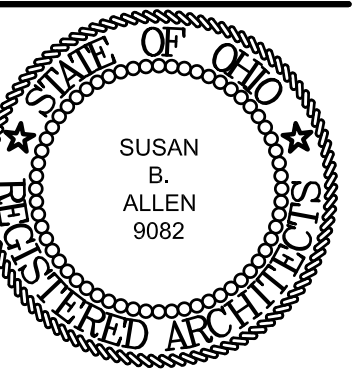
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03/31/2023
DATE

82A21
PROJECT NUMBER

A503
DRAWING NUMBER



SUSAN B. ALLEN
 License #9082
 Expiration Date 12/31/2023

REVISIONS

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(O) 12" TOWEL BAR
(B) ACCESSIBLE REFRIGERATOR	(P) TOILET
(C) 30" SLIDE-IN RANGE	(Q) TOILET PAPER HOLDER
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(R) GRAB BAR
(E) RANGE HOOD	(S) REMOVABLE SHOWER SEAT
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(T) ADJUSTABLE SHELVING (5 TYP.)
(G) RANGE HOOD DUCT CHASE	(U) FIXED SHOWER HEAD
(H) SINK AND FAUCET	(V) MEDICINE CABINET
(I) COUNTERTOP W / SIDE AND BACKSPASH	(W) FIBERGLASS SHOWER SURROUND
(J) GREASE SHIELD	(X) BLINDS
(K) BATHTUB & FIBERGLASS SURROUND	(Y) CORNER GUARDS
(L) FIXED SHOWER ROD	(Z) RECESSED BRACKETS W/ 5 SHELVES
(M) ADJUSTABLE SHOWER HEAD	(AA) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(N) SURFACE MOUNTED MIRROR	

INTERIOR ELEVATIONS
 GERMANTOWN CROSSING
 DAYTON OHIO



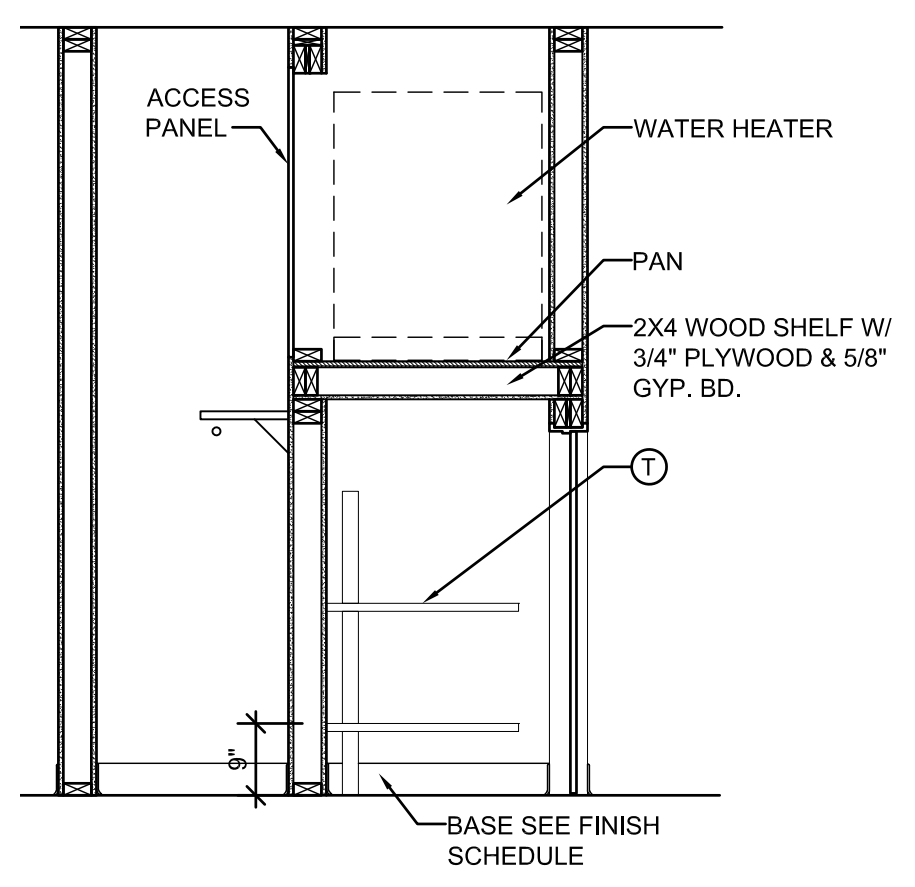
430 GRANT STREET
 AKRON, OH 44311
 PHONE: (330) 867-1093
 www.tcarchitects.com

TURNING VISIONS INTO REALITY

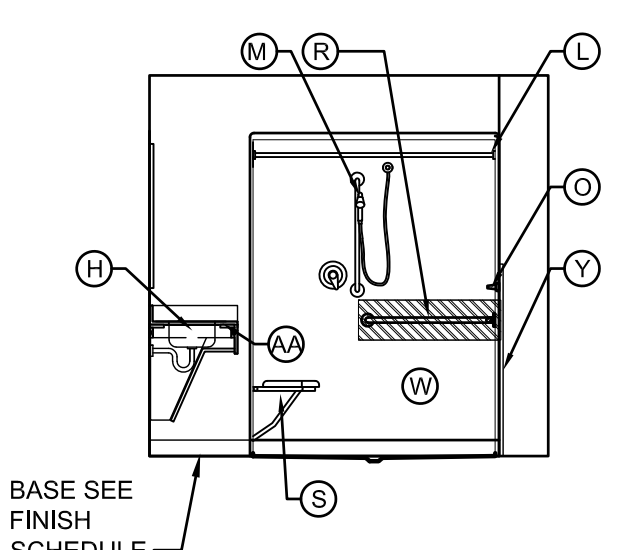
03/31/2023
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82A21
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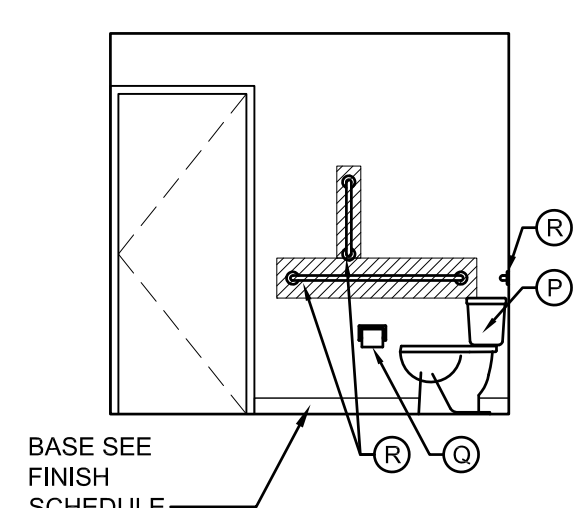
A505
 DRAWING NUMBER



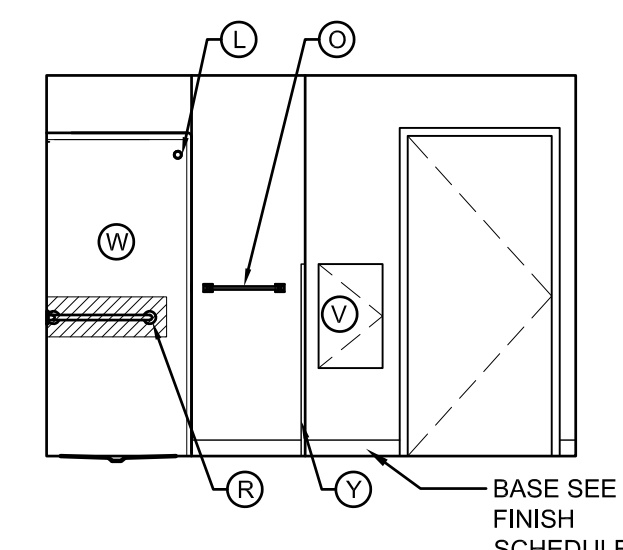
7 WATER HEATER SHELF DETAIL
 SCALE: 1/2" = 1'-0"



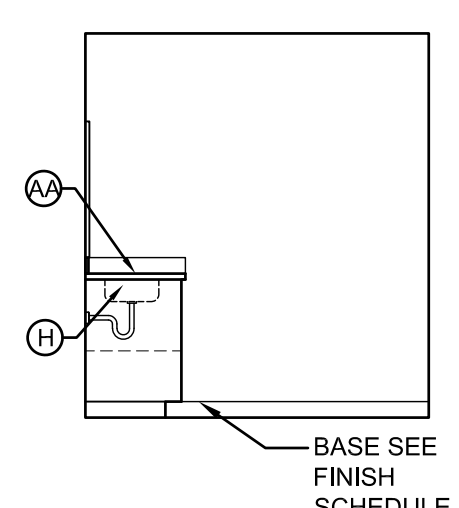
6 MU BATHROOM ELEVATION
 SCALE: 1/4" = 1'-0"



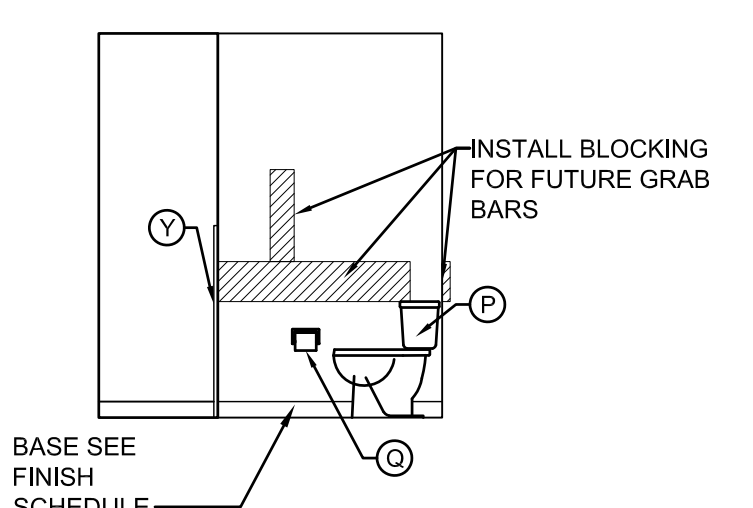
5 MU BATHROOM ELEVATION
 SCALE: 1/4" = 1'-0"



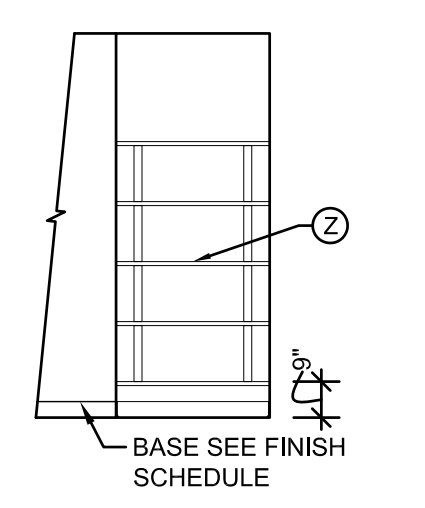
4 MU BATHROOM ELEVATION
 SCALE: 1/4" = 1'-0"



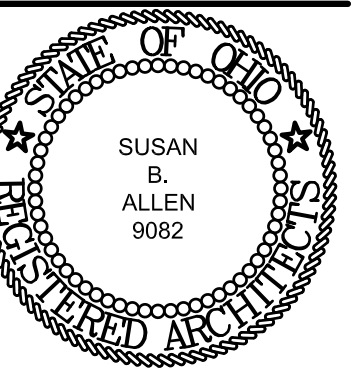
3 BATHROOM ELEVATION
 SCALE: 1/4" = 1'-0"



2 MU BATHROOM ELEVATION
 SCALE: 1/4" = 1'-0"



1 MU SHELVING ELEVATION
 SCALE: 1/4" = 1'-0"



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

ENLARGED COMMON AREA PLANS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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TURNING VISIONS
INTO REALITY

03/31/2023

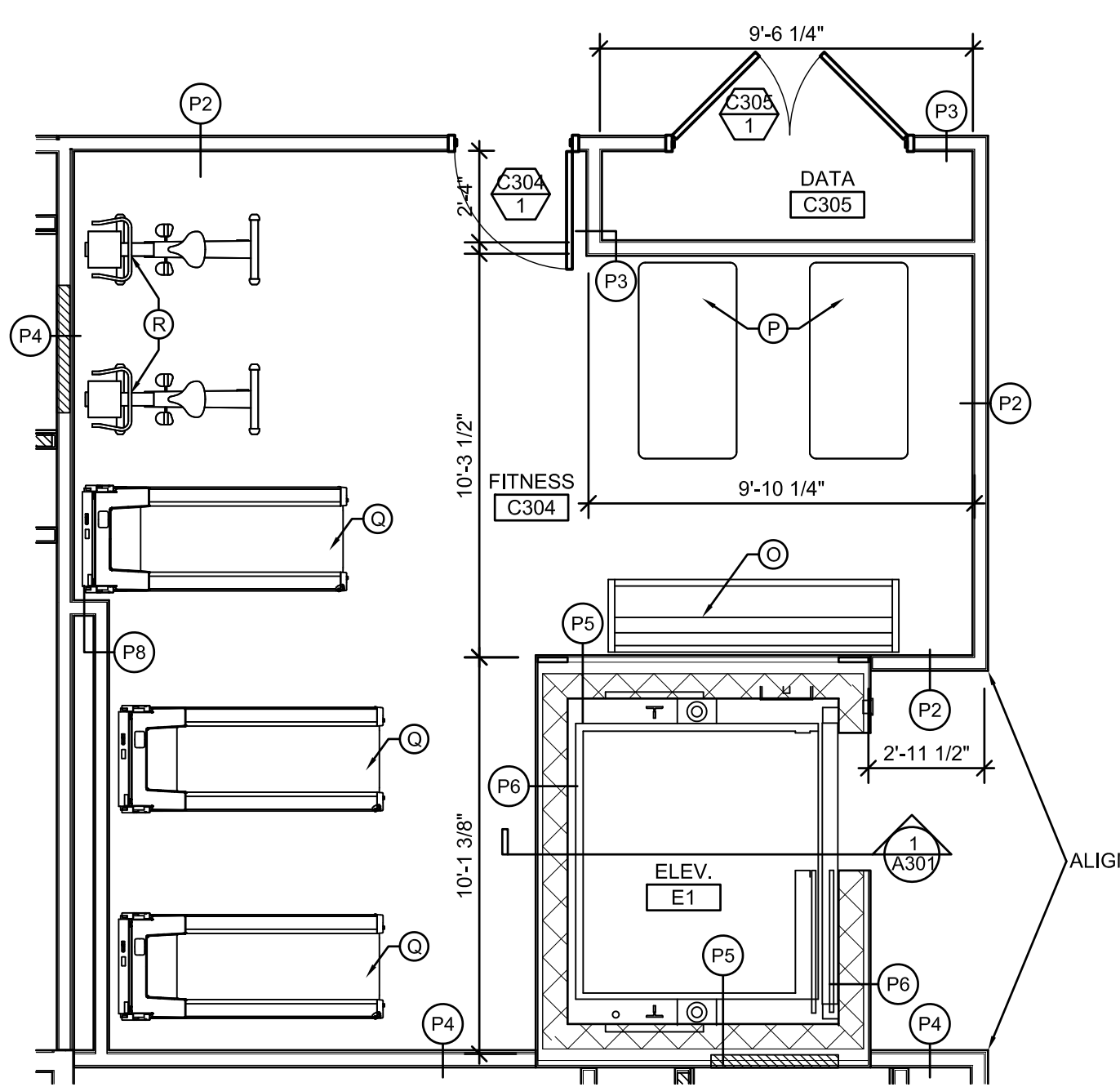
DATE
82A21

PROJECT NUMBER

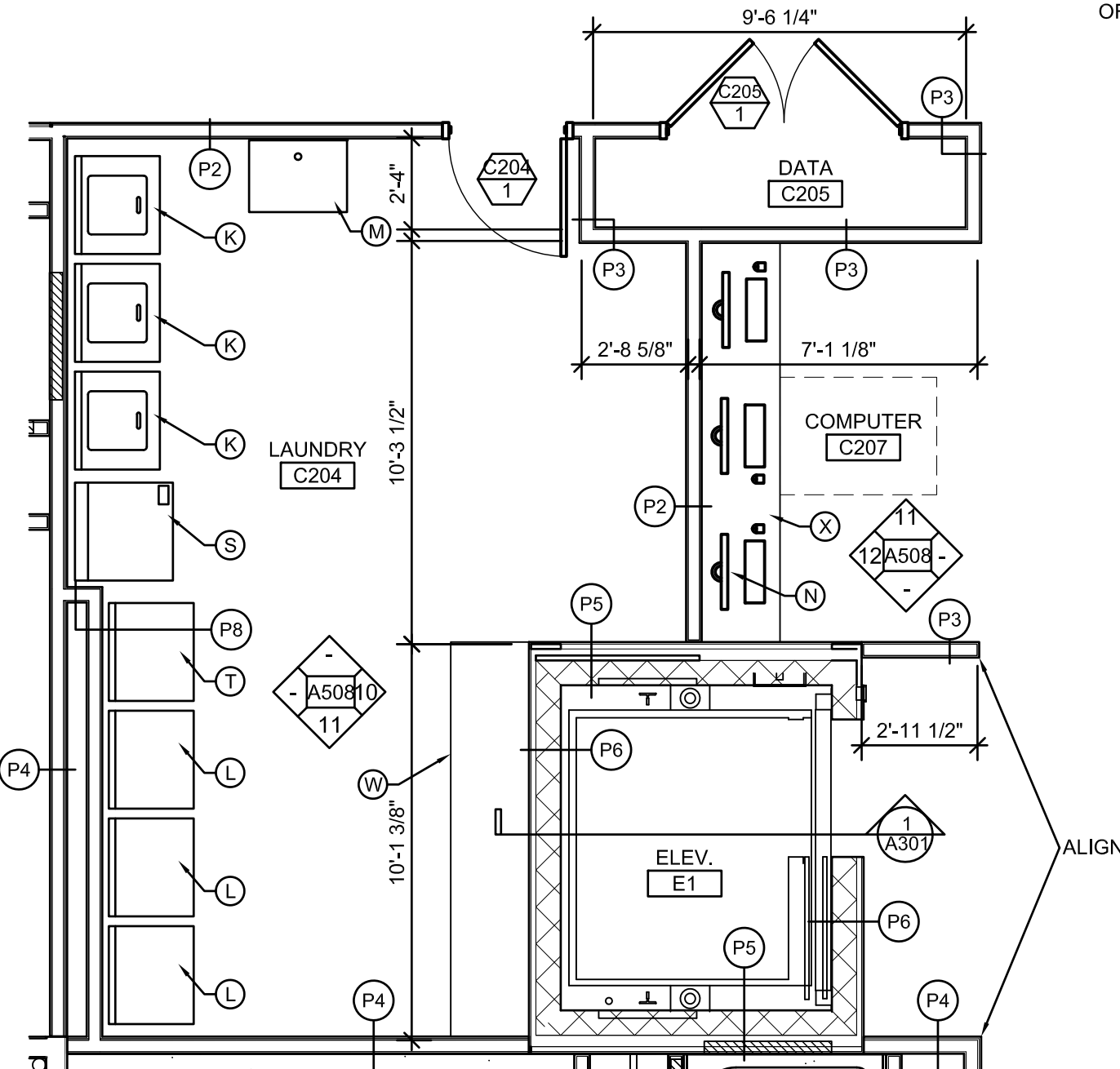
A506
DRAWING NUMBER

COMMON AREA CODED NOTES

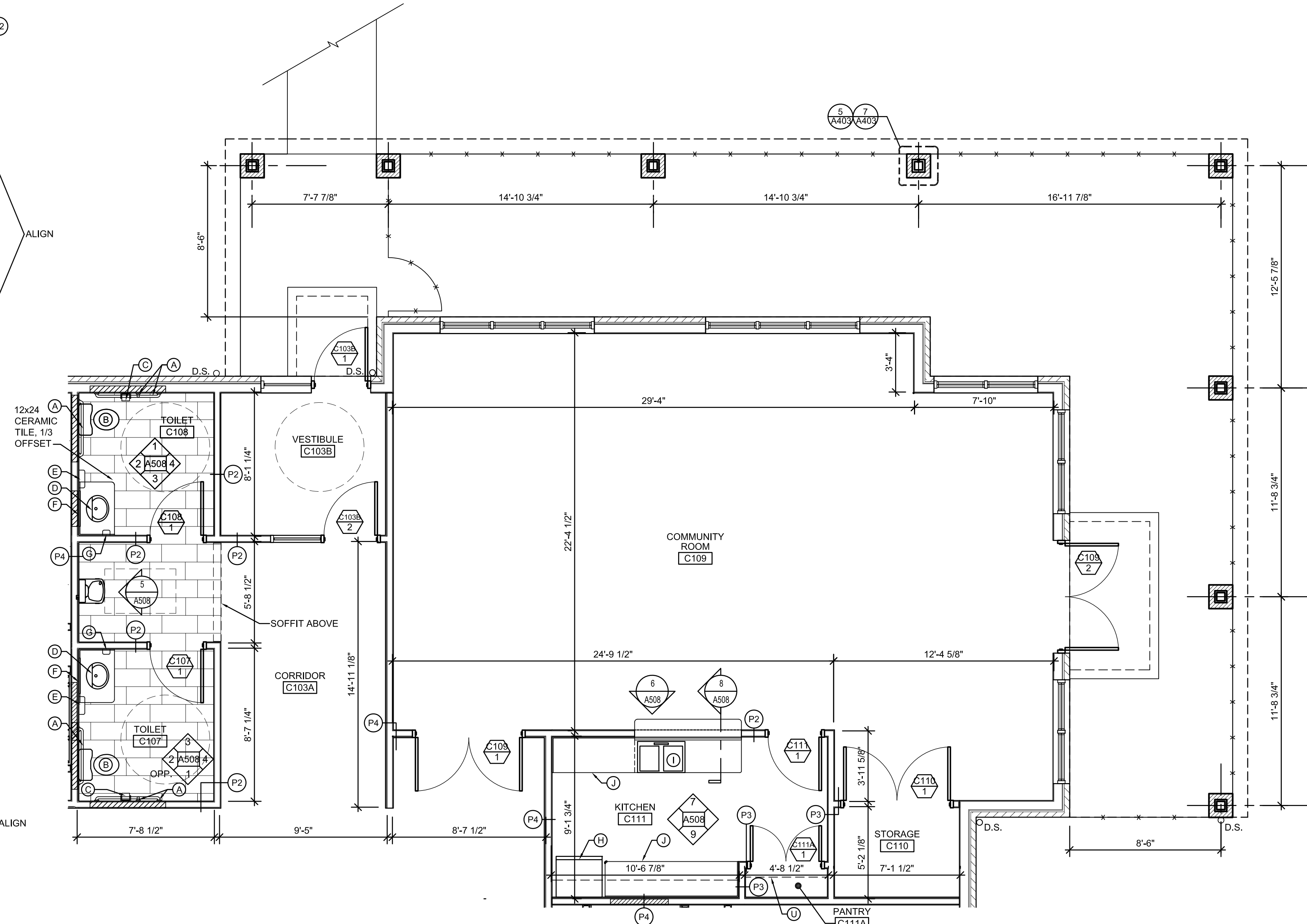
- | | | | | |
|--|---------------------------------------|-----------------------------|---------------------------------|--|
| (A) GRAB BARS | (F) REFLECTIVE SURFACE | (K) WASHER (OFCI) | (Q) TREADMILL W/ HANDLES (OFCI) | (V) DECORATIVE WOOD SUPPORT BRACKET |
| (B) TOILET | (G) SOAP DISPENSER | (L) DRYER, (OFCI) | (R) STATIONARY BICYCLE (OFCI) | (W) SS-2 COUNTERTOP, SIDE & BACKSPASH |
| (C) TOILET PAPER HOLDER | (H) ACCESSIBLE REFRIGERATOR | (M) MOP SINK | (S) FRONT LOAD WASHER (OFCI) | (X) SS-3 COUNTERTOP, SIDE & BACKSPASH |
| (D) CULTURED MARBLE VANITY COUNTERTOP (CM-1) W/ INTEGRAL SINK AND FAUCET | (I) KITCHEN SINK AND FAUCET | (N) COMPUTER | (T) FRONT LOAD DRYER (OFCI) | (U) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.) |
| (E) PAPER TOWEL HOLDER | (J) SS-1 COUNTERTOP, SIDE & BACKSPASH | (O) FREE WEIGHT RACK (OFCI) | (P) STEP MACHINE (OFCI) | |
- GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



3 ENLARGED 3RD FLOOR FITNESS ROOM
A506 SCALE: 1/4" = 1'-0" *EQUIPMENT (NIC) *

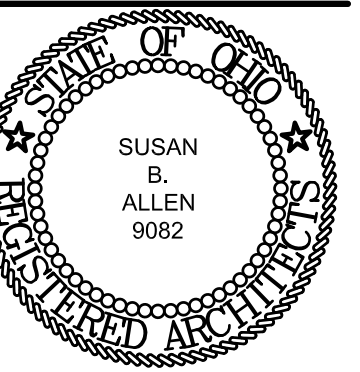


2 ENLARGED 2ND LAUNDRY & COMPUTER
A506 SCALE: 1/4" = 1'-0"



1 ENLARGED KITCHEN RESTROOM & COMMUNITY SPACE
A506 SCALE: 1/4" = 1'-0"

W:\GDFM\Germantown Crossing-82A21\05DWgs\3CDVA506 A507 A508.dwg May 01, 2023 - 11:22pm



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

INTERIOR ELEVATIONS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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TURNING VISIONS
INTO REALITY

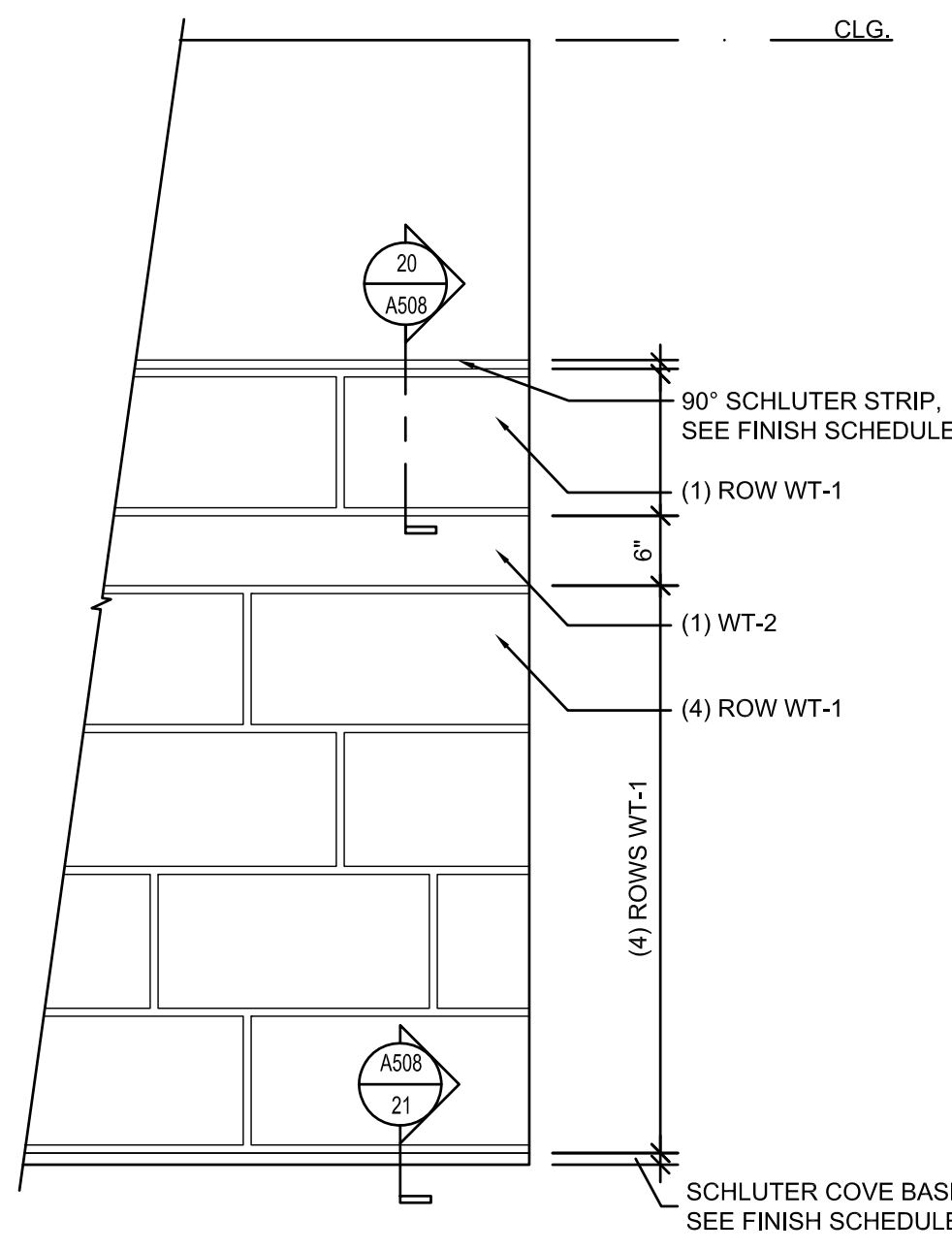
03/31/2023
DATE

82A21
PROJECT NUMBER

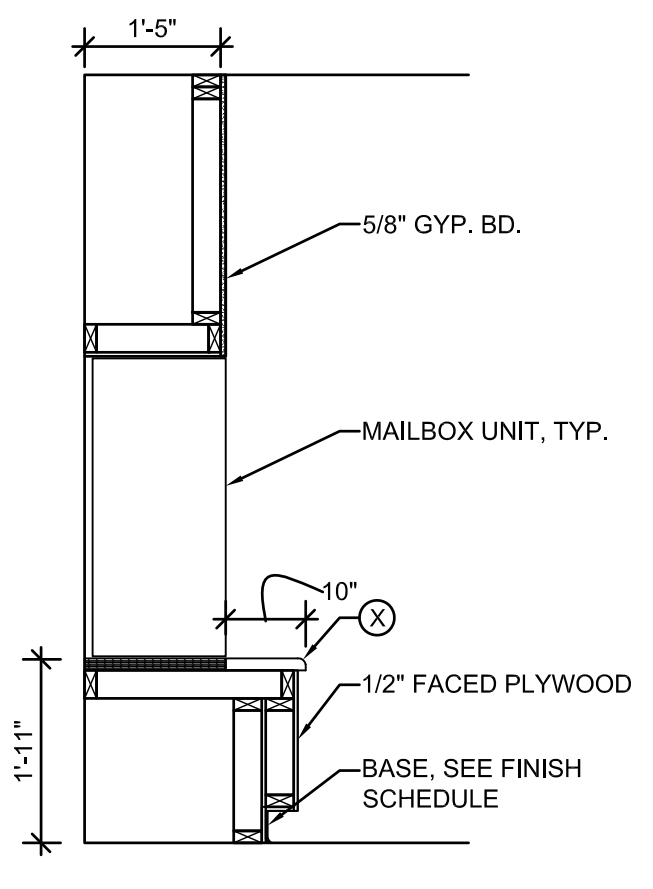
A508
DRAWING NUMBER

COMMON AREA CODED NOTES

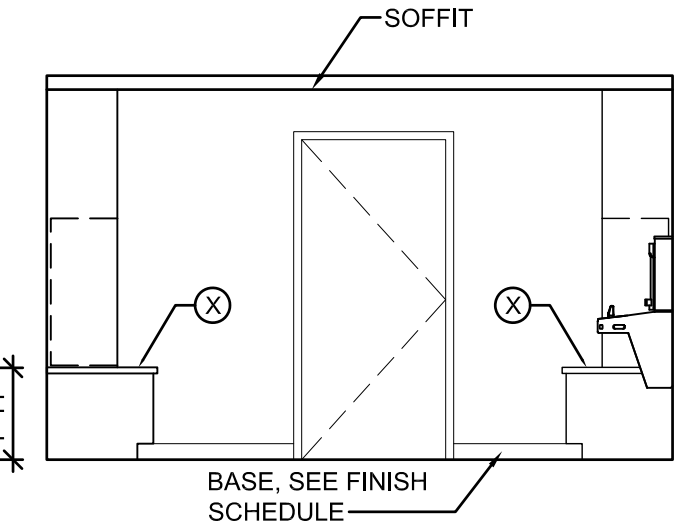
- | | | | | |
|--|--|-----------------------------|--|--|
| (A) GRAB BARS | (F) REFLECTIVE SURFACE | (K) WASHER (OFCI) | (Q) TREADMILL W/ HANDLES (OFCI) | (V) DECORATIVE WOOD SUPPORT BRACKET |
| (B) TOILET | (G) SOAP DISPENSER | (L) DRYER, (OFCI) | (R) STATIONARY BICYCLE (OFCI) | (W) SS-2 COUNTERTOP, SIDE & BACKSPLASH |
| (C) TOILET PAPER HOLDER | (H) ACCESSIBLE REFRIGERATOR | (M) MOP SINK | (S) FRONT LOAD WASHER (OFCI) | (X) SS-3 COUNTERTOP, SIDE & BACKSPLASH |
| (D) CULTURED MARBLE VANITY COUNTERTOP (CM-1) W/ INTEGRAL SINK AND FAUCET | (I) KITCHEN SINK AND FAUCET | (N) COMPUTER | (T) FRONT LOAD DRYER (OFCI) | |
| (E) PAPER TOWEL HOLDER | (J) SS-1 COUNTERTOP, SIDE & BACKSPLASH | (O) FREE WEIGHT RACK (OFCI) | (U) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.) | |
| | | (P) STEP MACHINE (OFCI) | | |
- GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



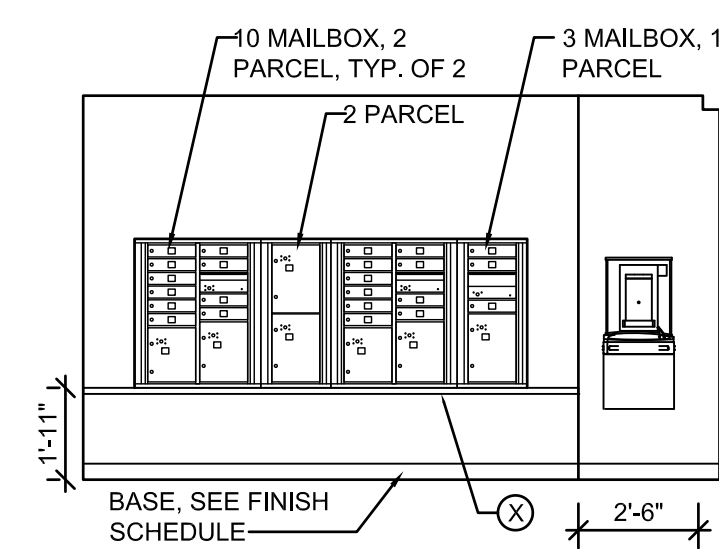
19 WALL TILE DETAIL
A508 SCALE: 3/4" = 1'-0"



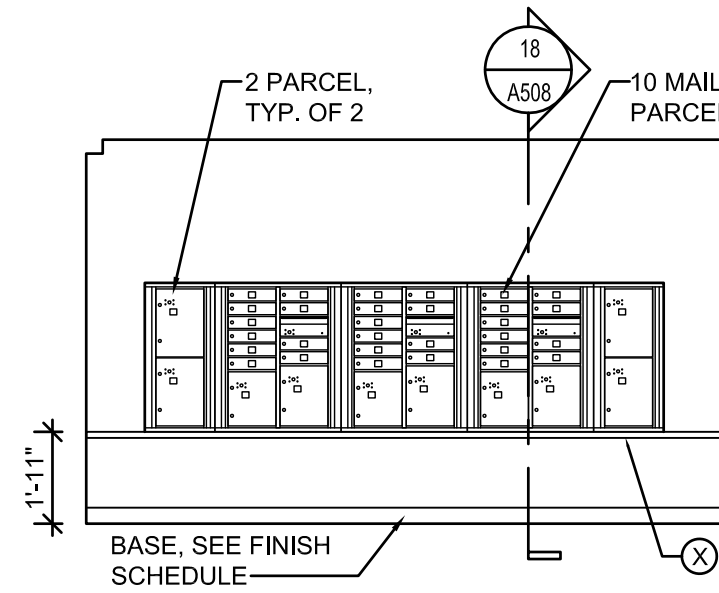
18 MAIL
A508 SCALE: 1/2" = 1'-0"



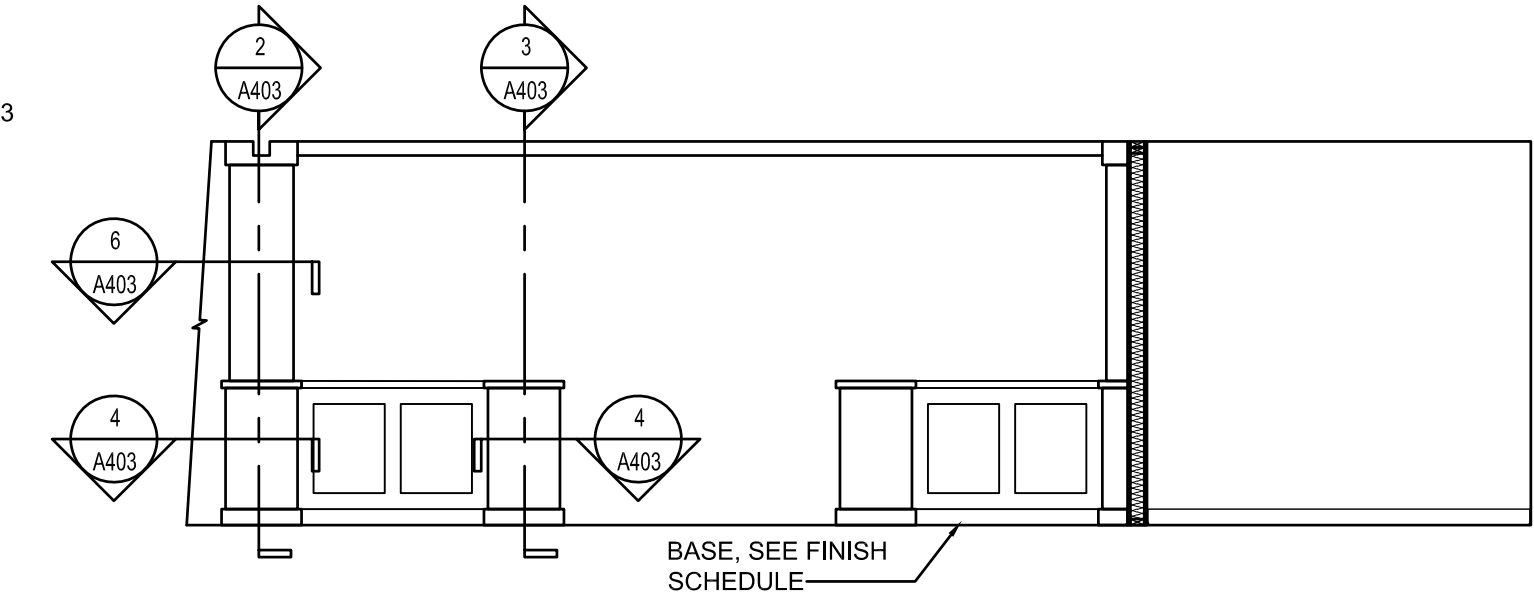
17 MAIL
A508 SCALE: 1/4" = 1'-0"



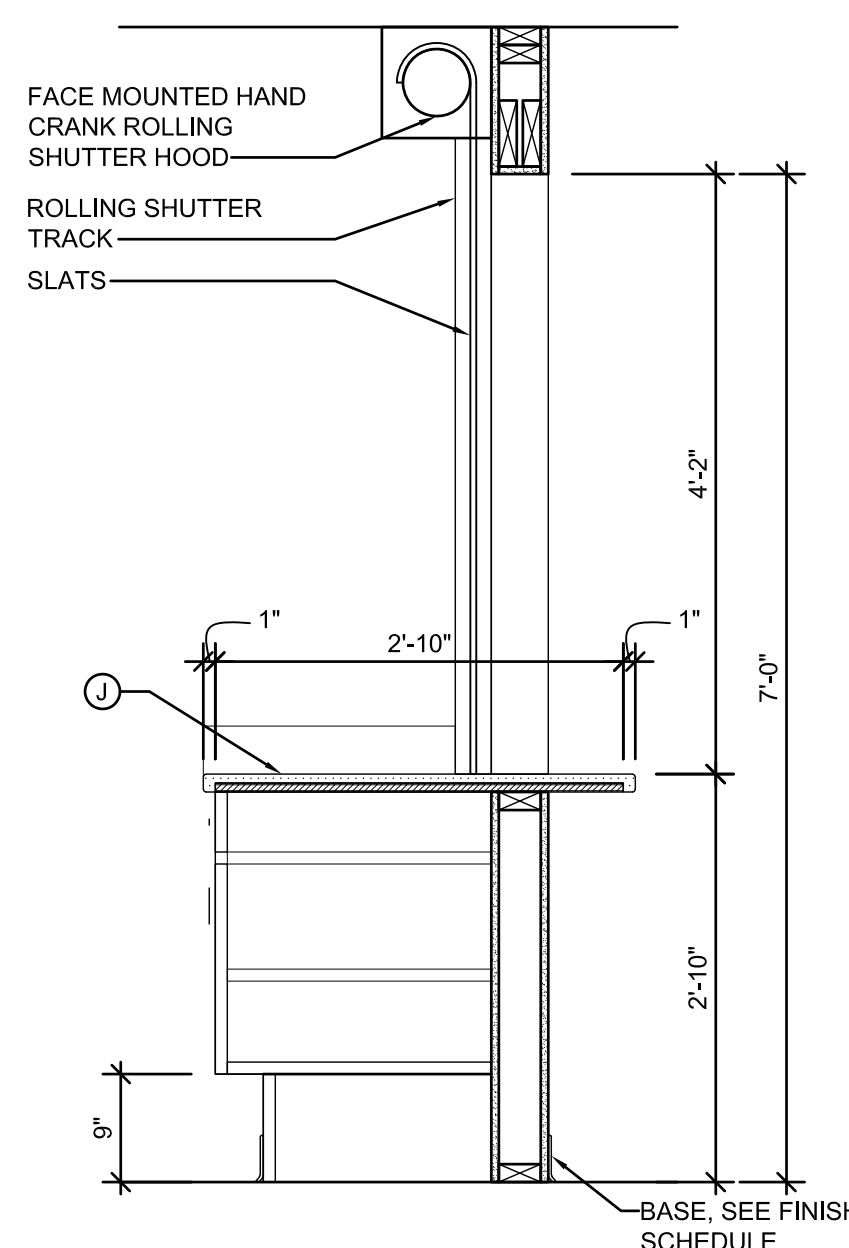
16 MAIL
A508 SCALE: 1/4" = 1'-0"



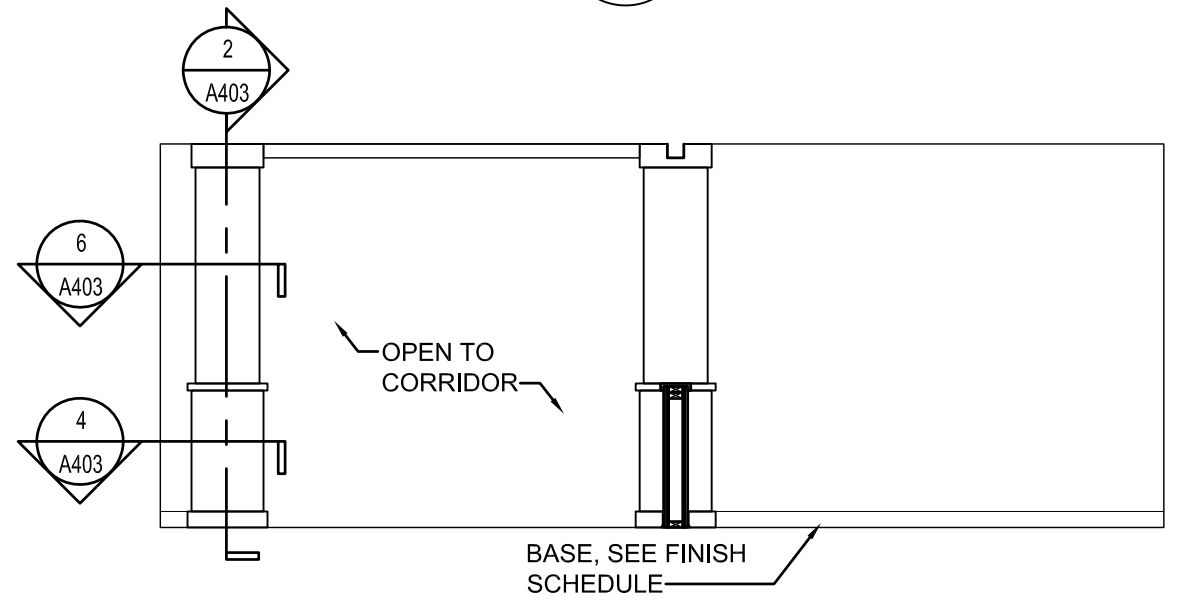
15 MAIL
A508 SCALE: 1/4" = 1'-0"



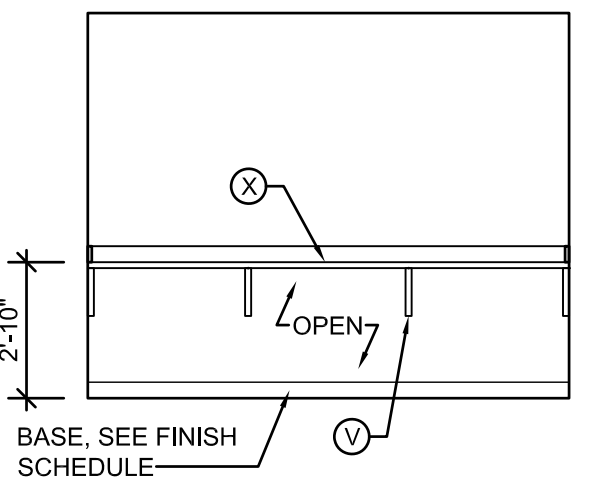
14 LOBBY
A508 SCALE: 1/4" = 1'-0"



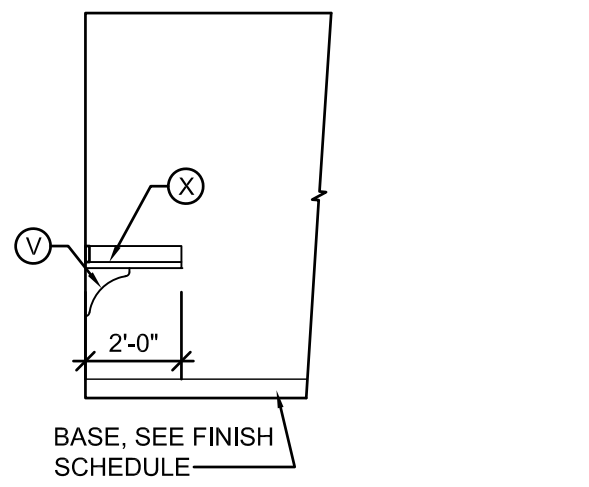
8 CABINET DETAIL
A508 SCALE: 3/4" = 1'-0"



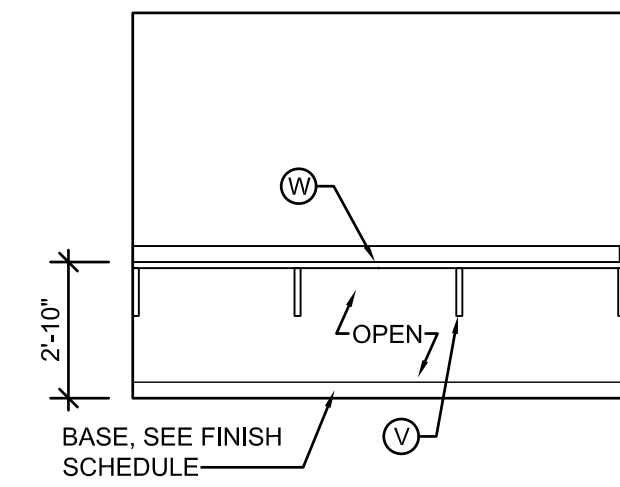
13 LOBBY
A508 SCALE: 1/4" = 1'-0"



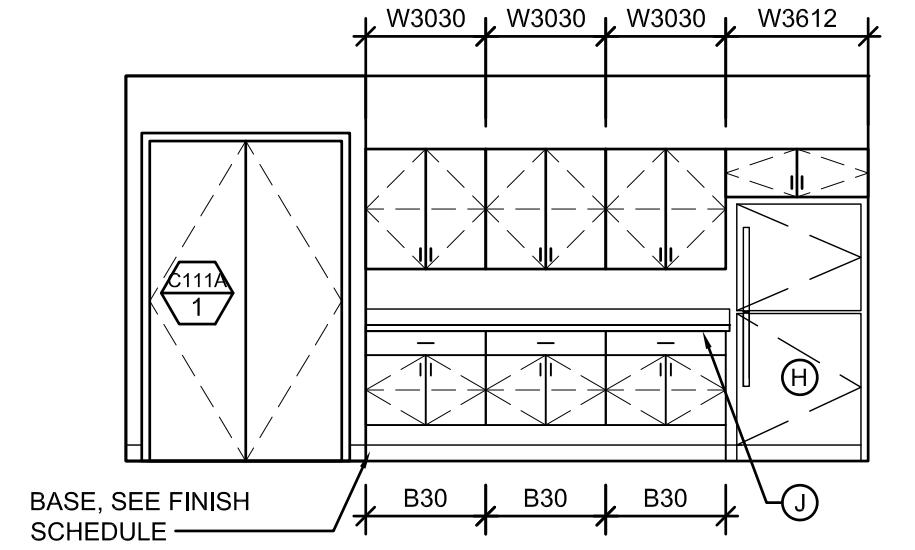
12 COMPUTER
A508 SCALE: 1/4" = 1'-0"



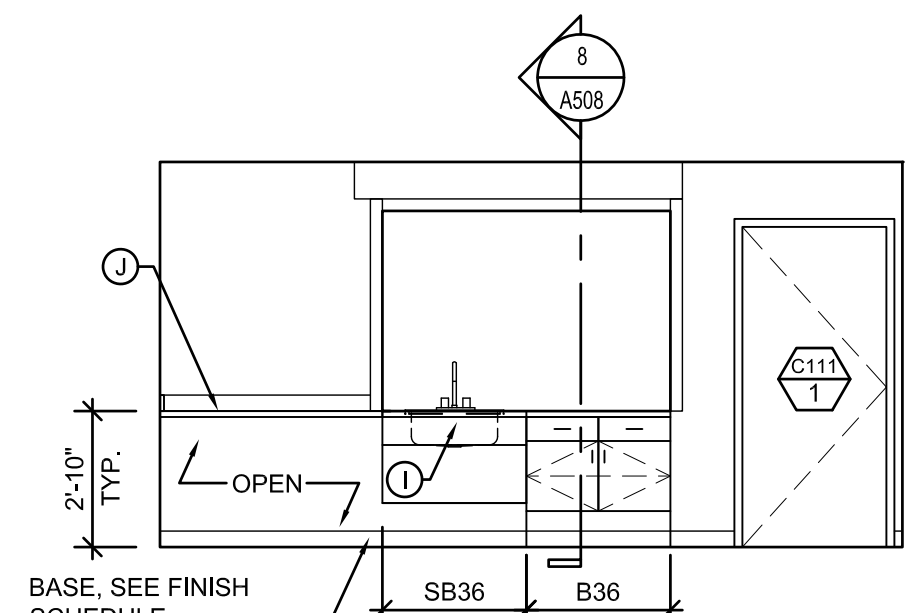
11 COUNTERTOP
A508 SCALE: 1/4" = 1'-0"



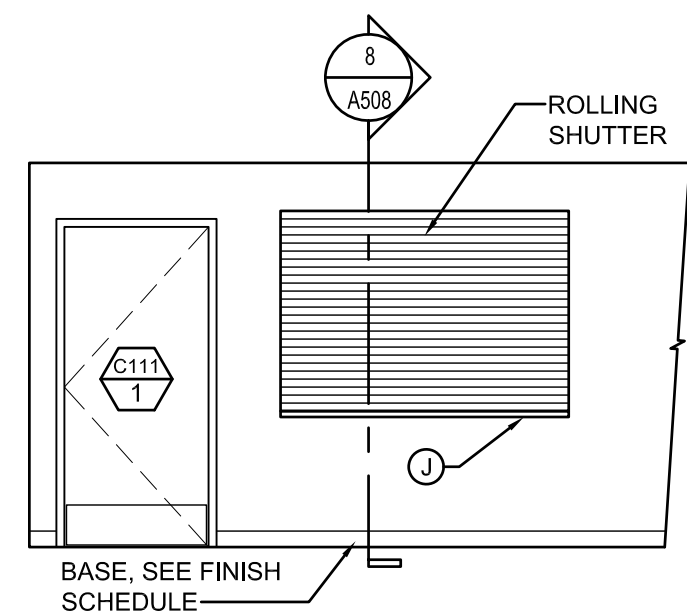
10 LAUNDRY COUNTERTOP
A508 SCALE: 1/4" = 1'-0"



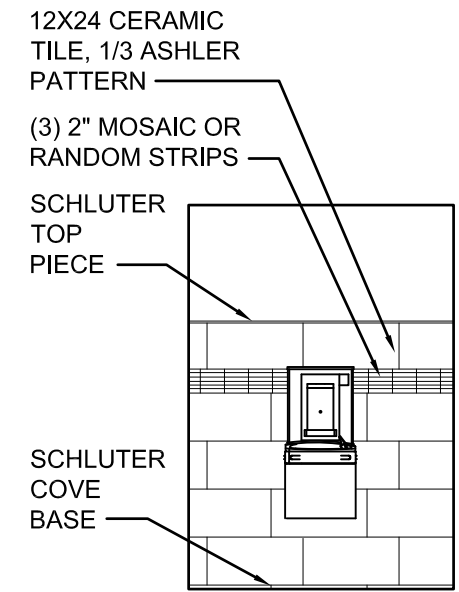
9 KITCHEN
A508 SCALE: 1/4" = 1'-0"



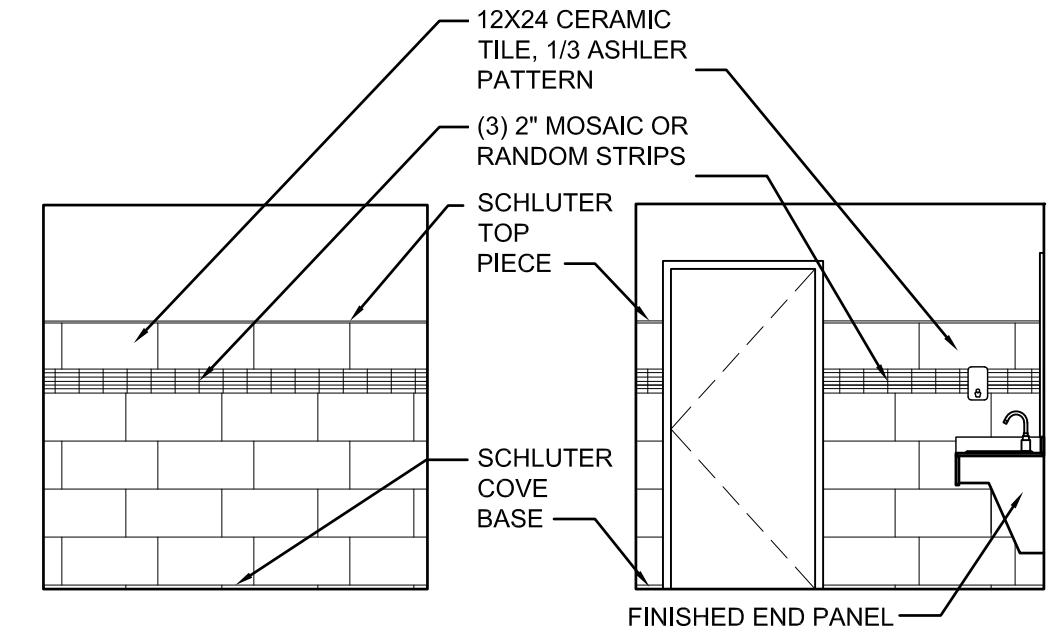
7 KITCHEN
A508 SCALE: 1/4" = 1'-0"



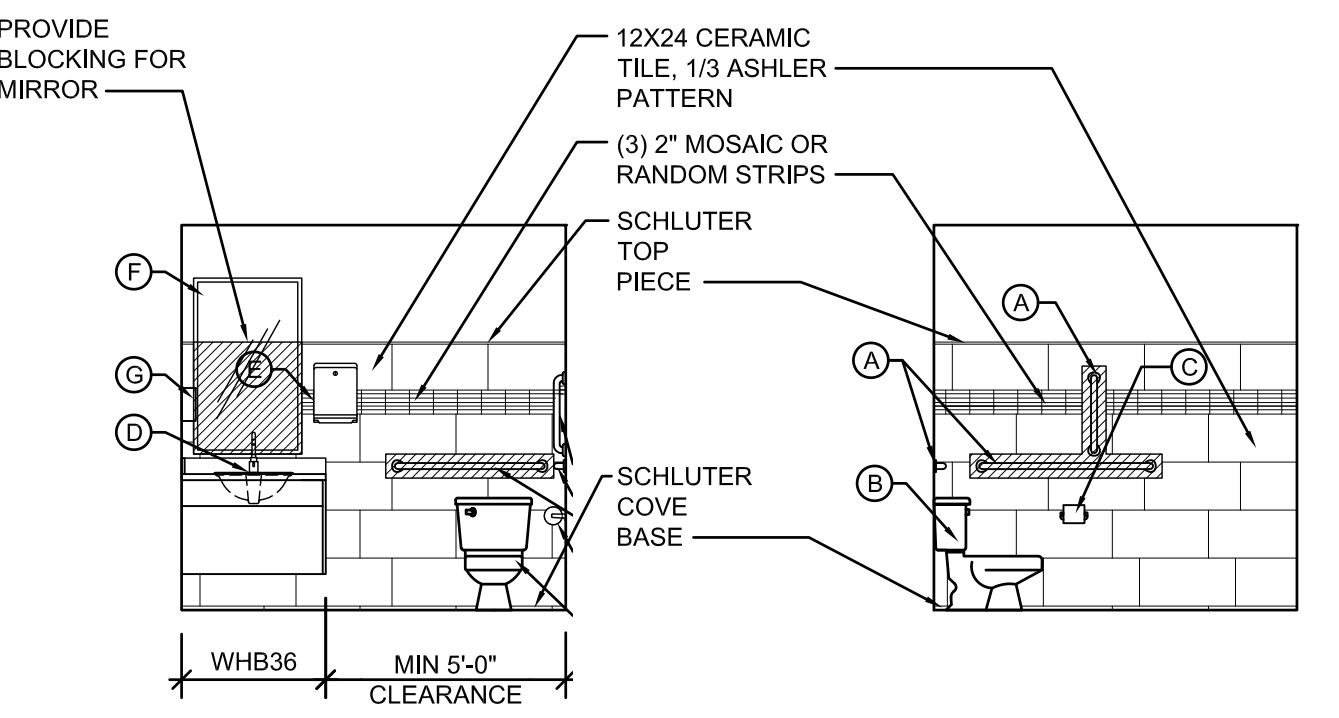
6 KITCHEN
A508 SCALE: 1/4" = 1'-0"



5 DRINKING FOUNTAIN
A508 SCALE: 1/4" = 1'-0"



4 TOILET ROOM
A508 SCALE: 1/4" = 1'-0"



2 TOILET ROOM
A508 SCALE: 1/4" = 1'-0"

1 TOILET ROOM
A508 SCALE: 1/4" = 1'-0"

W:\GDP\Germantown Crossing-82A21\05DWgs\3CD\A508.dwg May 01, 2023 - 1:11pm



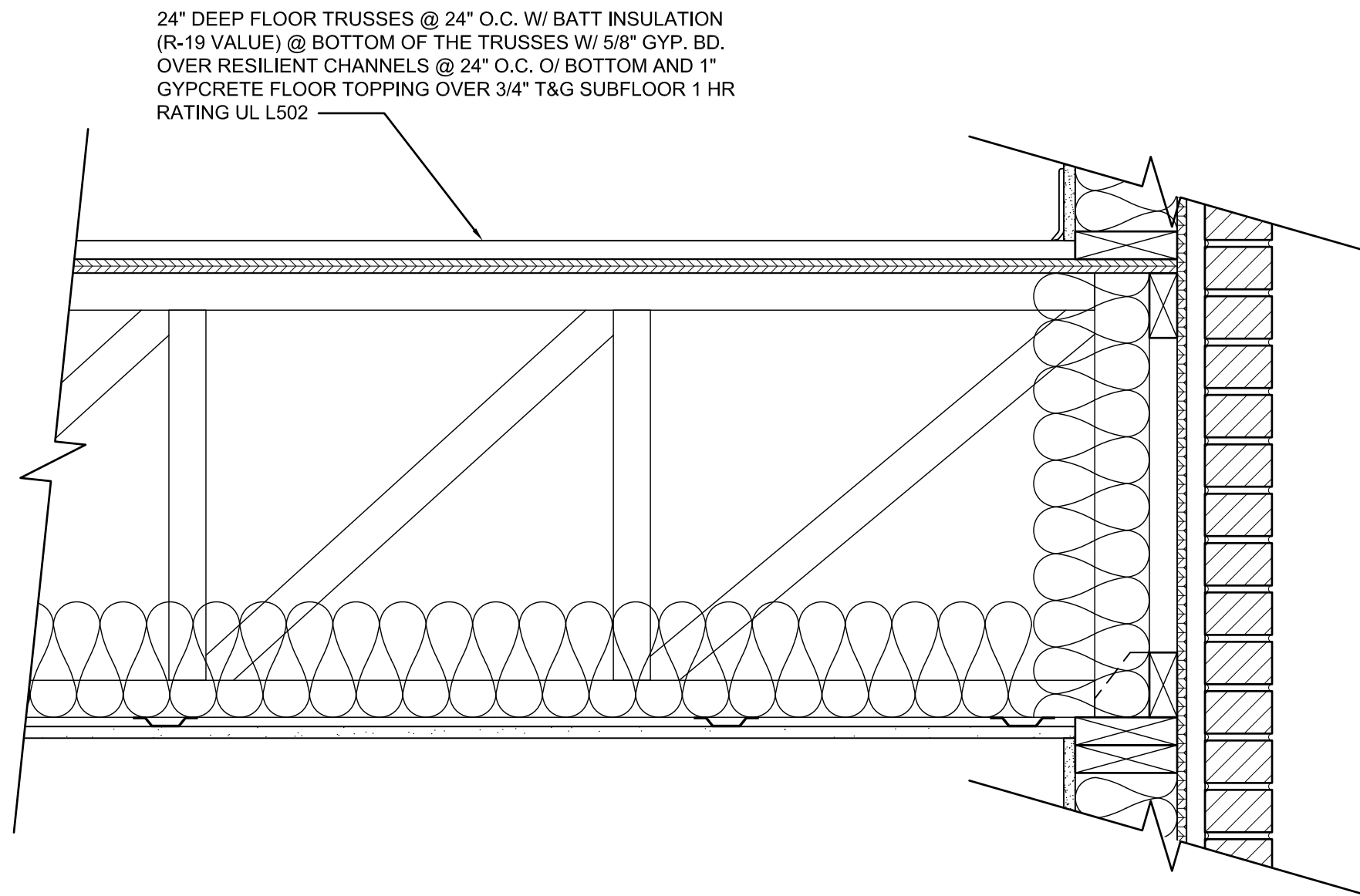
SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

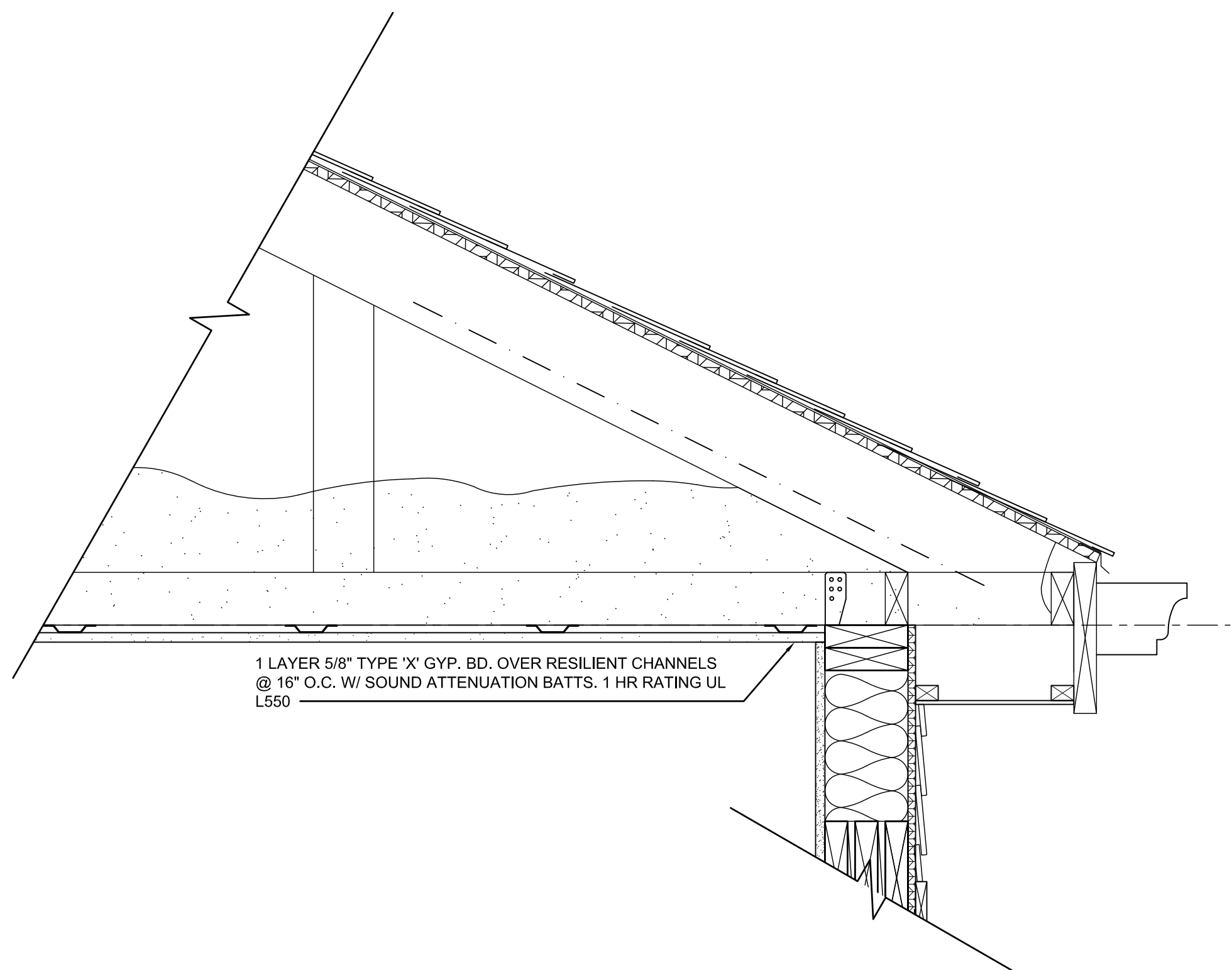
NO.	DATE	DESCRIPTION

GENERAL NOTES

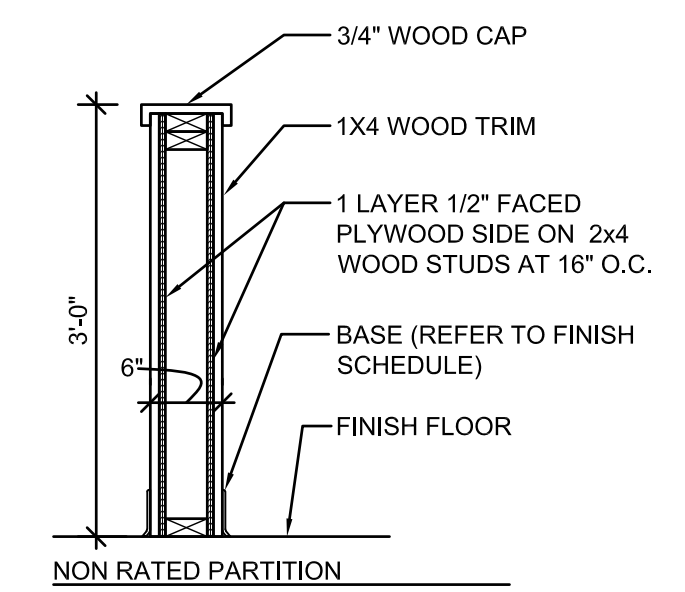
1. SEE SPECIFICATION SECTION 09 2116 FOR GYPSUM BOARD TYPE LOCATIONS.



2 TYP. FLOOR / CEILING ASSEMBLY
A601 SCALE: 1 1/2" = 1'-0"

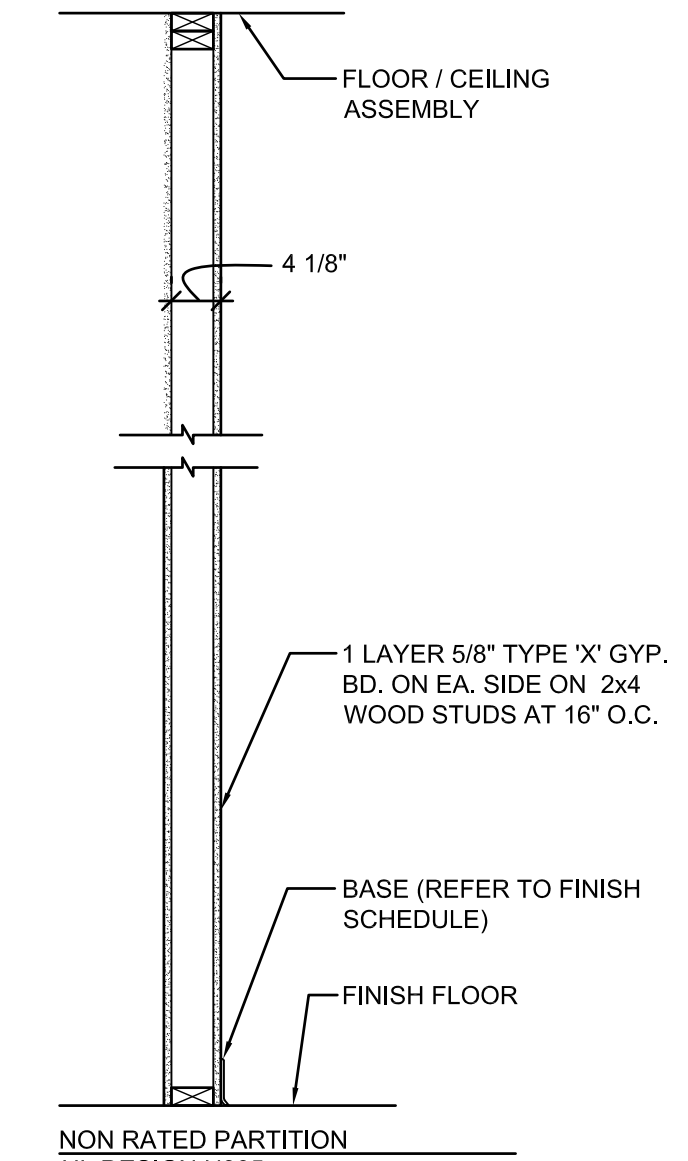


1 CEILING / ROOF ASSEMBLY
A601 SCALE: 1 1/2" = 1'-0"



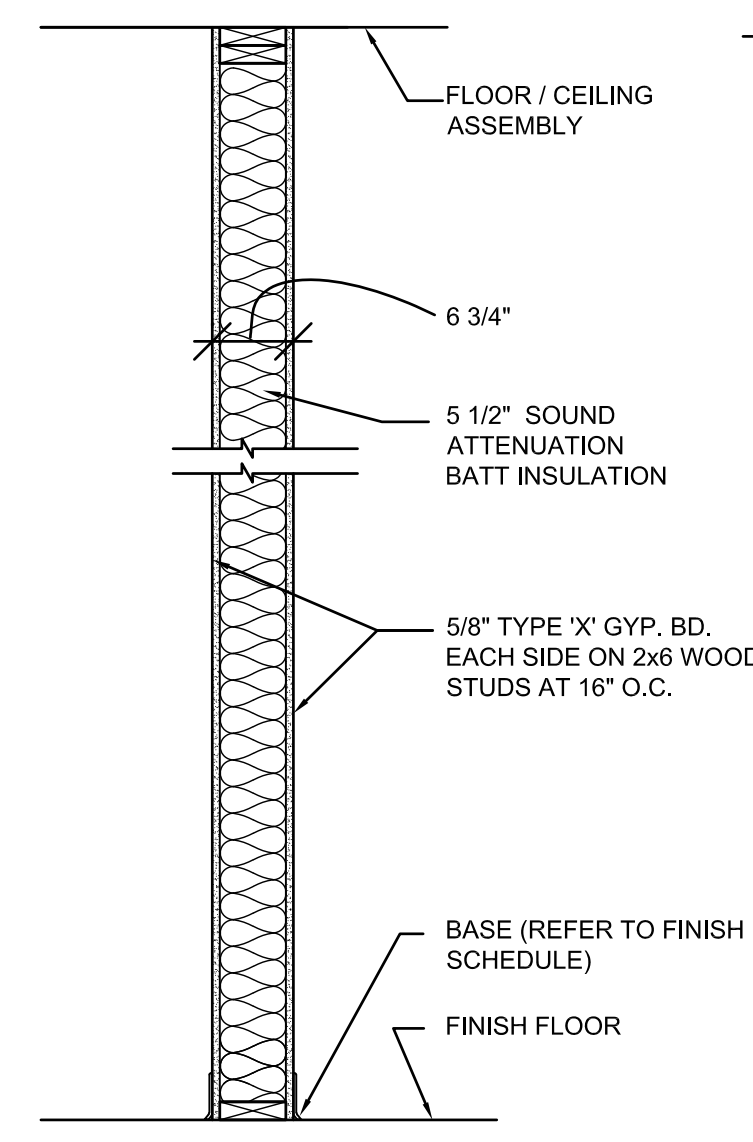
NON RATED PARTITION

P9 PARTITION TYPE
SCALE 3/4"=1'-0"



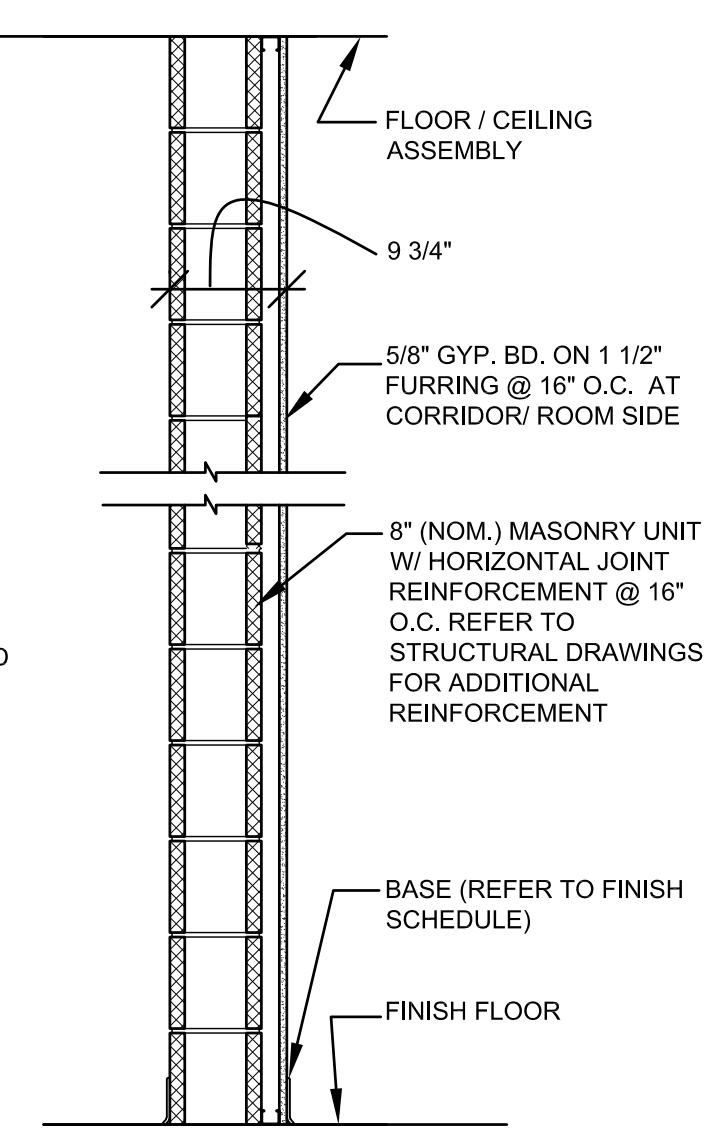
NON RATED PARTITION
UL DESIGN U305

P8 PARTITION TYPE
SCALE 3/4"=1'-0"



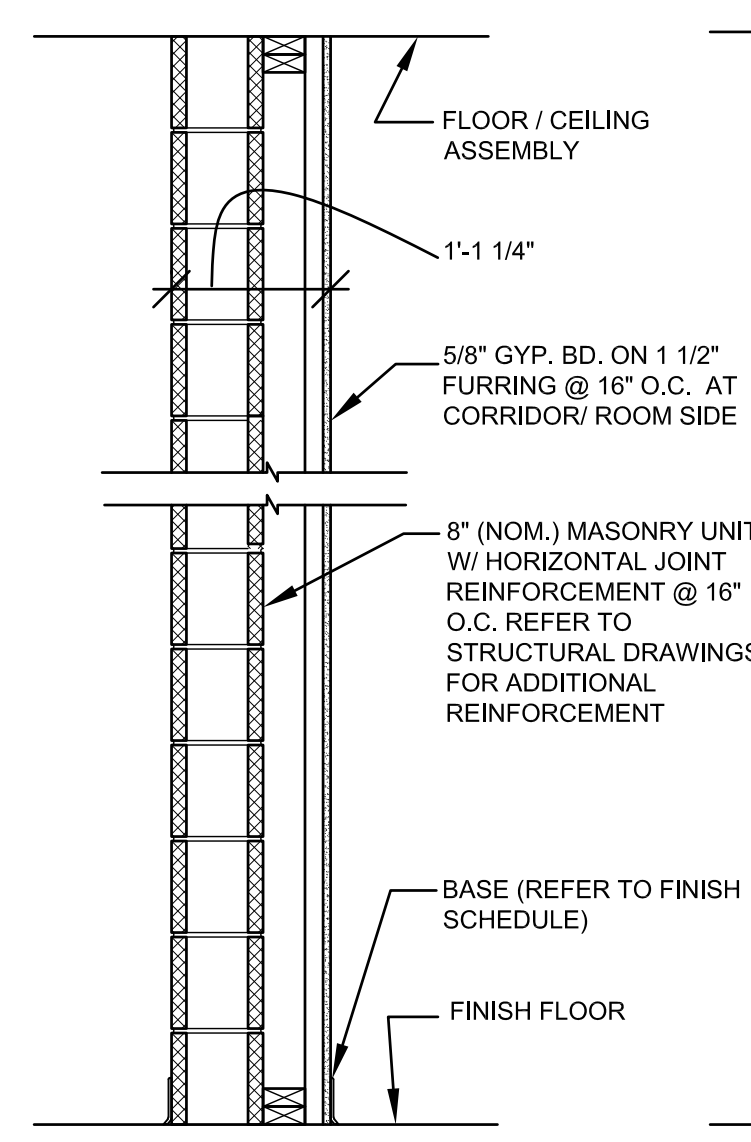
1-HR RATED PARTITION
UL DESIGN U305

P7 PARTITION TYPE
SCALE 3/4"=1'-0"



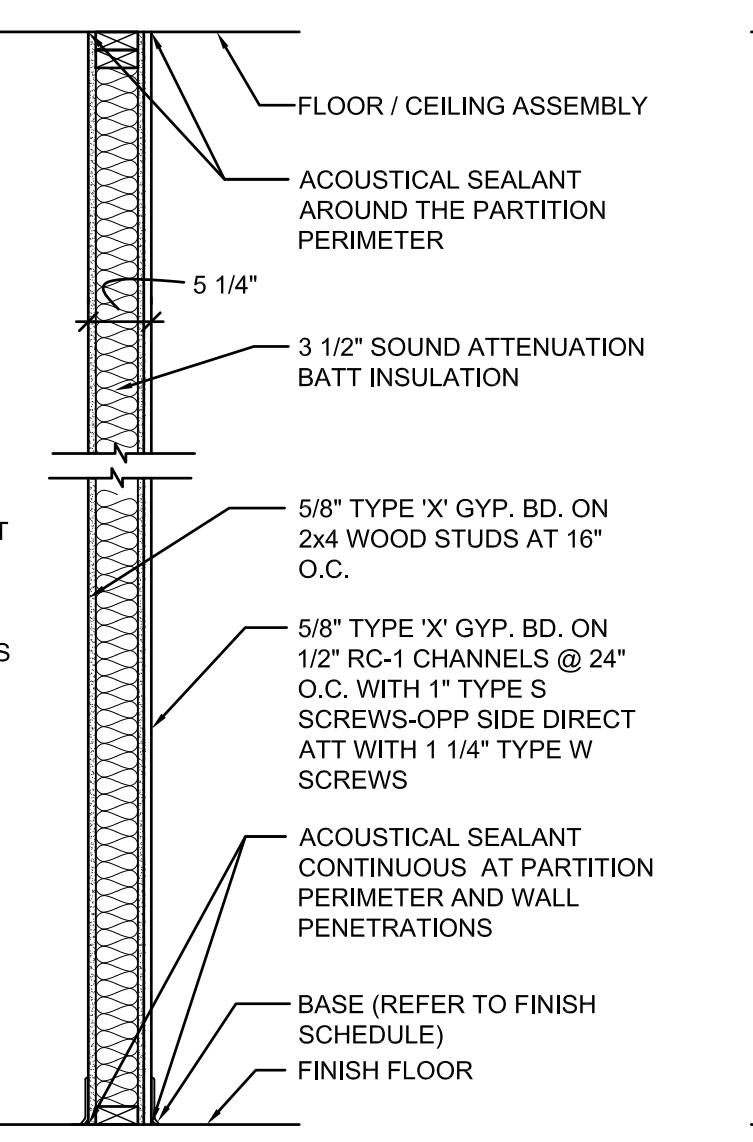
2-HR RATED PARTITION
UL DESIGN U905

P6 PARTITION TYPE
SCALE 3/4"=1'-0"



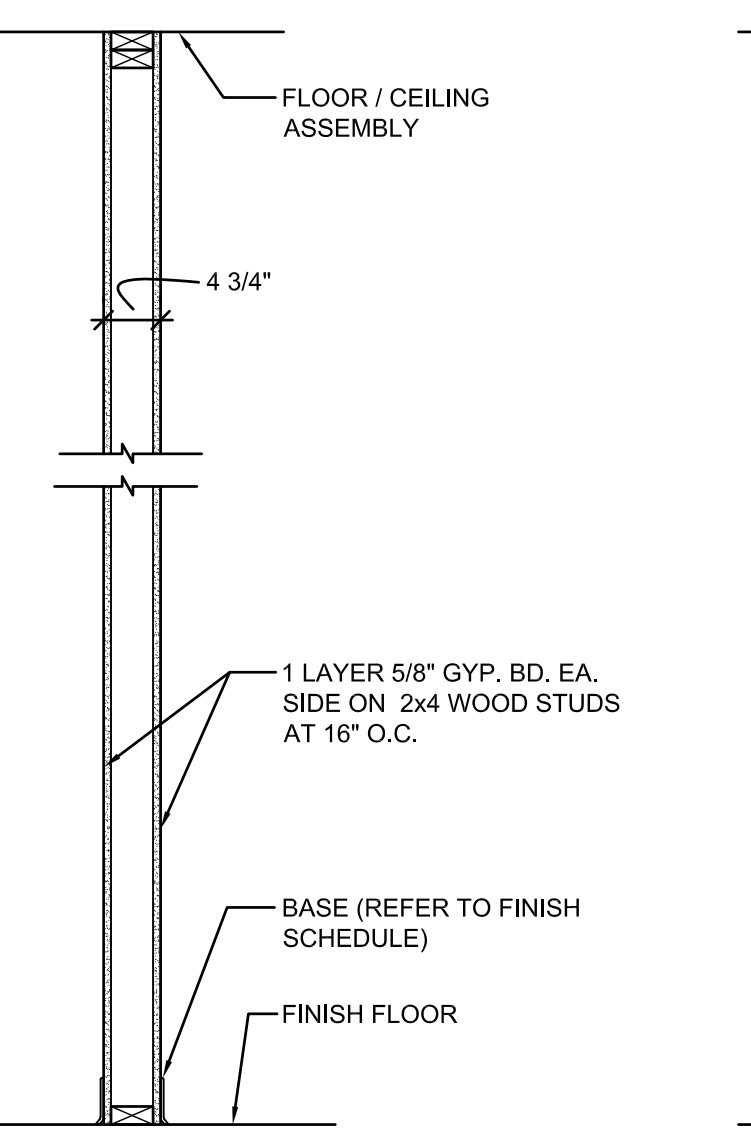
2-HR RATED PARTITION
UL DESIGN U905

P5 PARTITION TYPE
SCALE 3/4"=1'-0"



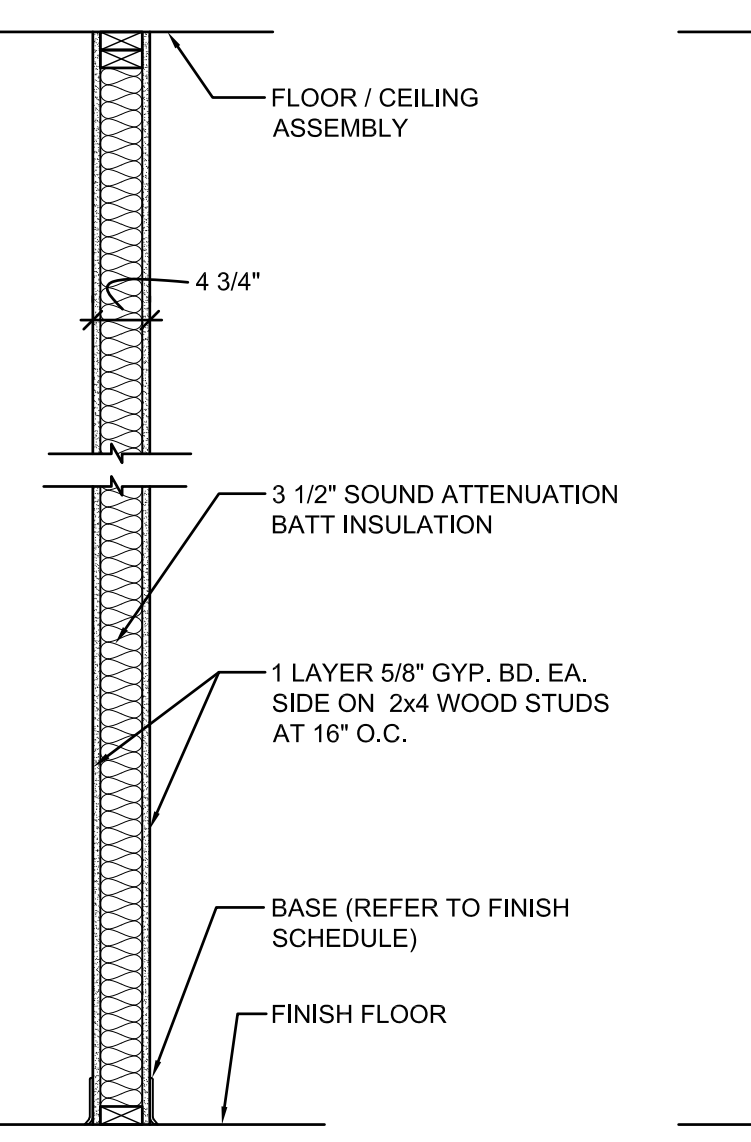
1 HOUR RATED PARTITION
UL DESIGN U311

P4 PARTITION TYPE
SCALE 3/4"=1'-0"



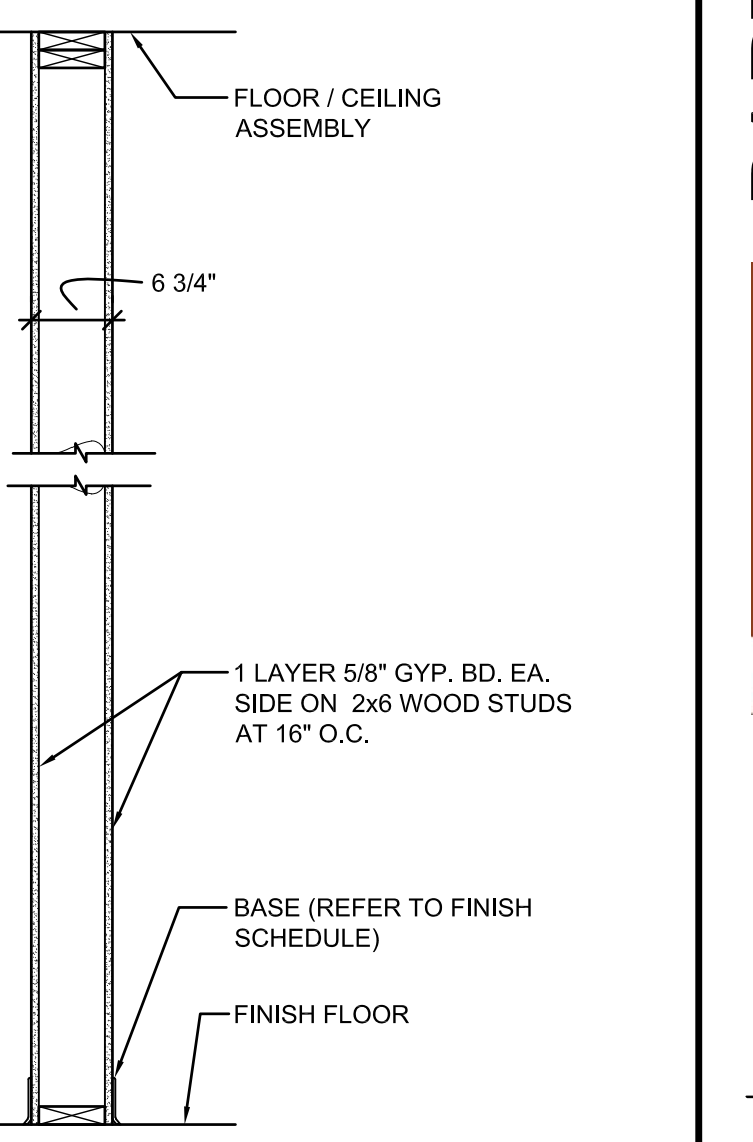
NON RATED PARTITION

P3 PARTITION TYPE
SCALE 3/4"=1'-0"



NON RATED PARTITION

P2 PARTITION TYPE
SCALE 3/4"=1'-0"



NON RATED PARTITION

P1 PARTITION TYPE
SCALE 3/4"=1'-0"

PARTITION TYPES
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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AKRON, OH 44311
PHONE: (330) 867-1093
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

A601
DRAWING NUMBER

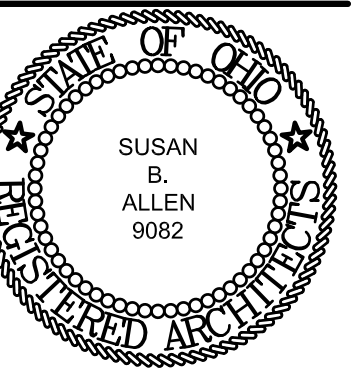
W:\GDFM\Germantown Crossing-82A21\05Dwg\3CD\A601.dwg Mar 29, 2023 - 2:40pm

DOOR SCHEDULE - UNITS

DOOR NO.	ROOM NAME	SIZE	DOOR					FRAMES		RATING	DETAILS			HARDWARE SET	NOTES:
			THICK.	HEIGHT	TYPE	MAT.	GLASS TYPE	TYPE	MAT.		HEAD	JAMB	SILL		
1 BEDROOM - STANDARD UNIT															
A01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
A03/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
A05/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	E	PRE-HUNG
A06/1	BEDROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
A07/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
A07A/1	UTILITY	3'-0"	3/4"	6'-8"	D	WD	--	--	--	--	--	--	--	--	ACCESS PANEL
A08/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
A08/2	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	18 / A604	17 / A604	--	--	POCKET DOOR
1 BEDROOM - ACCESSIBLE UNIT															
B01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
B05/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
B06/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
B06/2	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	18 / A604	17 / A604	--	--	POCKET DOOR
B07/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
B07A/1	UTILITY	3'-0"	3/4"	3'-0"	D	WD	--	--	--	--	--	--	--	--	ACCESS PANEL
A08/1	BEDROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
B09/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
2 BEDROOM - STANDARD UNIT / SENSORY UNIT															
C01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
C02/1	CLOSET	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C03/1	UTILITY	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	E	PRE-HUNG
C04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C05/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C06/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C07/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C08/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C10/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
2 BEDROOM - ACCESSIBLE UNIT															
D01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
D02/1	CLOSET	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D03/1	UTILITY	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	E	PRE-HUNG
D04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D05/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D06/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D07/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D08/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
D10/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
3 BEDROOM - STANDARD UNIT															
F01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
F02/1	CLOSET	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F03/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
F04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F05/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F06/1	BEDROOM 3	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F08/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	E	PRE-HUNG
F10/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F11/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F14/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
F15/1	LINEN	1'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F16/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F17/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
3 BEDROOM - ACCESSIBLE UNIT															
G01/1	ENTRY	3'-0"	1 3/4"	6'-8"	C	STL.	--	1	HM	20 MIN.	4 / A604	3 / A604	--	A	--
G02/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G03/1	STORAGE	2'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G03A/1	STORAGE	2'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G05/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G06/1	BEDROOM 3	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G08/1	UTILITY	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
G10/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G11/1	BEDROOM 1	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G14/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
G15/1	UTILITY	2'-4"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	D	PRE-HUNG
G16/1	LINEN	1'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G17/1	CLOSET	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
G18/1	BEDROOM 2	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG

DOOR SCHEDULE - COMMON AREA

DOOR NO.	ROOM NAME	SIZE	DOOR					FRAMES		RATING	DETAILS			HARDWARE SET	NOTES:
			THICK.	HEIGHT	TYPE	MAT.	GLASS TYPE	TYPE	MAT.		HEAD	JAMB	SILL		
FIRST FLOOR															
C101/1	TRASH	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	20 MIN.	4 / A604	3 / A604	--	12	--
C101/2	TRASH	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	--	6 / A604	5 / A604	--	12	--
C102/1	TRASH COMPACTOR	PR. 4'-0"	1 3/4"	7'-0"	A	INSUL. HM	--	1	HM	--	14 / A604	13 / A604	12 / A604	--	--
C103/1	CORRIDOR	3'-0"	1 3/4"	7'-0"	A	AL	--	1	AL	--	9 / A604	8 / A604	7 / A604	4	DOOR ACCESS CONTROL
C103B/1	VESTIBULE	3'-0"	1 3/4"	7'-0"	B	AL / GL	--	1	AL	--	16 / A604	15 / A604	--	2A	AUTOMATIC DOOR OPENER / DOOR ACCESS CONTROL
C103B/2	VESTIBULE	3'-0"	1 3/4"	7'-0"	B	AL / GL	--	2	AL	--	9 / A604	8 / A604	7 / A604	1A	AUTOMATIC DOOR OPENER
C105/1	ELEV. MECH ROOM	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	90 MIN.	4 / A604	3 / A604	--	5A	--
C106/1	DATA	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7	--
C107/1	TOILET	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	10	--
C108/1	TOILET	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	10	--
C109/1	COMMUNITY ROOM	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	20 MIN.	4 / A604	3 / A604	--	9	--
C109/2	COMMUNITY ROOM	PR. 3'-0"	1 3/4"	7'-0"	B	AL / GL	--	1	AL	--	11 / A604	10 / A604	7 / A604	9A	--
C110/1	STORAGE	PR. 3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7	--
C111/1	KITCHEN	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	11	--
C111A/1	PANTRY	PR. 2'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7A	--
C112/1	STORAGE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7A	--
C113/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	20 MIN.	4 / A604	3 / A604	--	3	--
C115/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	3	--
C116/1	OFFICE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	3	--
C117/1	STORAGE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	7A	--
C118/1	CONFERENCE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--	6 / A604	5 / A604	--	3	--
C118/2	CONFERENCE	3'-0"	1 3/4"	7'-0"	A	WD	--	1	HM	--					



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

NO.	DATE	DESCRIPTION

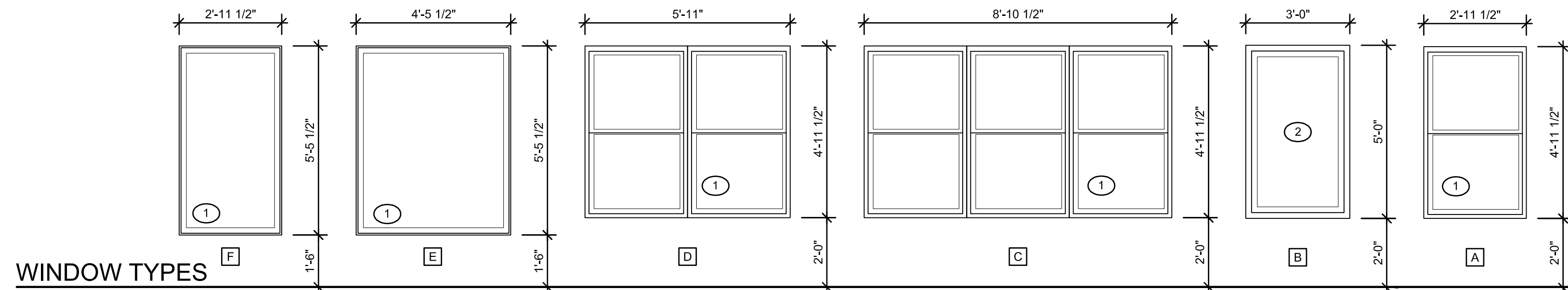
GLASS TYPES

- 1 SEALED INSULATING GLASS UNIT W/ SAFETY GLAZING
- 2 TINTED SAFETY GLAZING

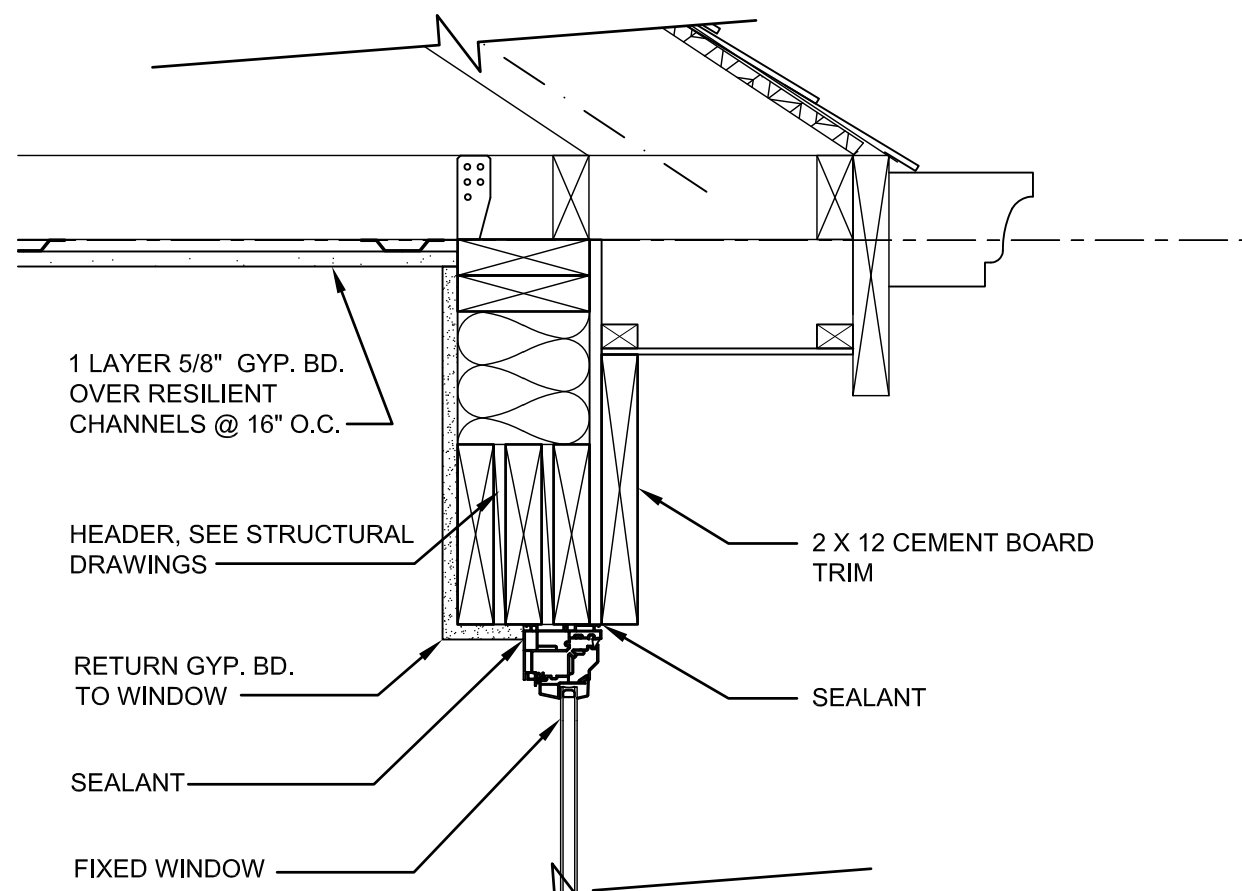
WINDOW SCHEDULE

TYPE	SIZE (H X W)	MATERIAL	GLASS TYPE	HEAD	JAMB	SILL	REMARKS
EXTERIOR WINDOWS							
A	4'-11 1/2" X 2'-11 1/2"	VINYL	1	3, 6 / A603	2, 5 / A603	1, 4, 7 / A603	--
C	4'-11 1/2" X 8'-10 1/2"	VINYL	1	3 / A603	2 / A603	1 / A603	--
D	4'-11 1/2" X 5'-11"	VINYL	1	3 / A603	2 / A603	1 / A603	--
E	5'-5 1/2" X 4'-5 1/2"	VINYL	1	13 / A603	10 / A603	11 / A603	--
F	5'-5 1/2" X 2'-11 1/2"	VINYL	1	13 / A603	10 / A603	11 / A603	--
INTERIOR WINDOWS							
B	3'-0" X 5'-0"	WOOD	2	10 / A603	9 / A603	8 / A603	-

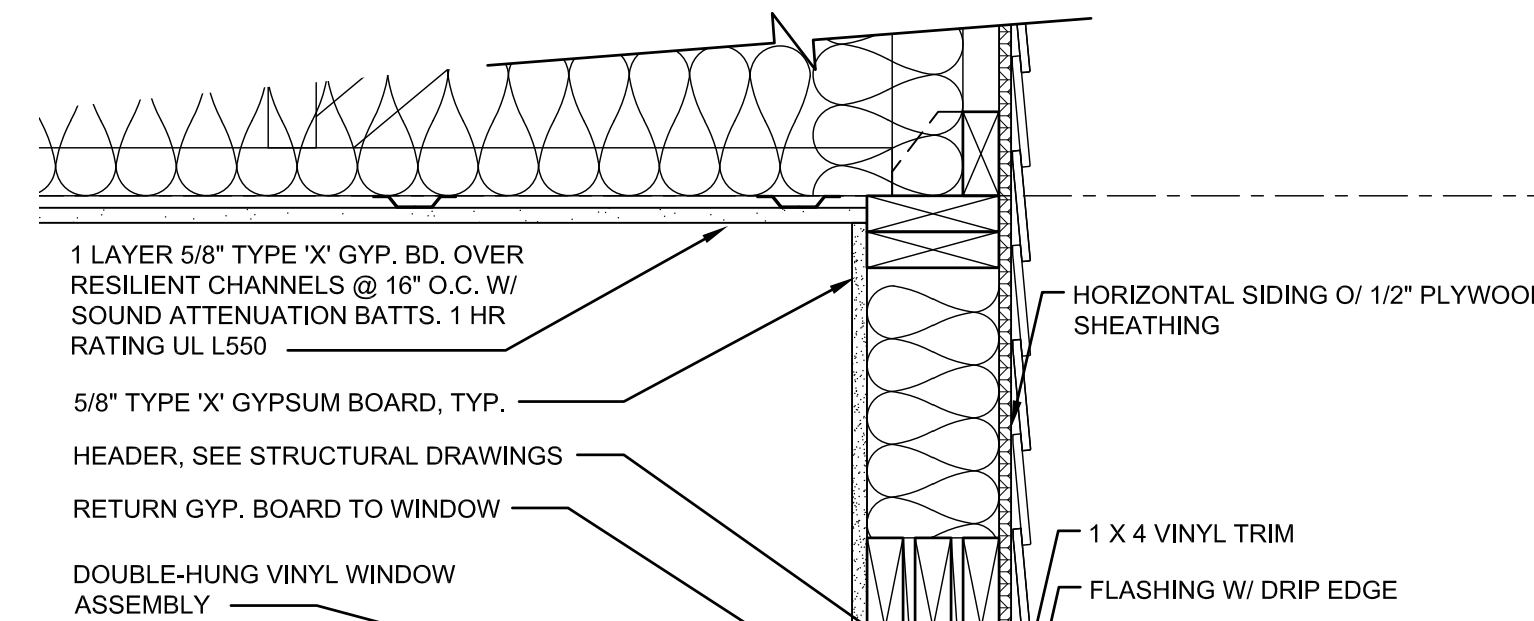
NOTE:
1. VINYL WINDOWS: U-VALUE 0.3
2. SEALED INSULATED GLASS: U-VALUE 0.28
3. ALL WINDOWS ARE TO HAVE BLINDS.



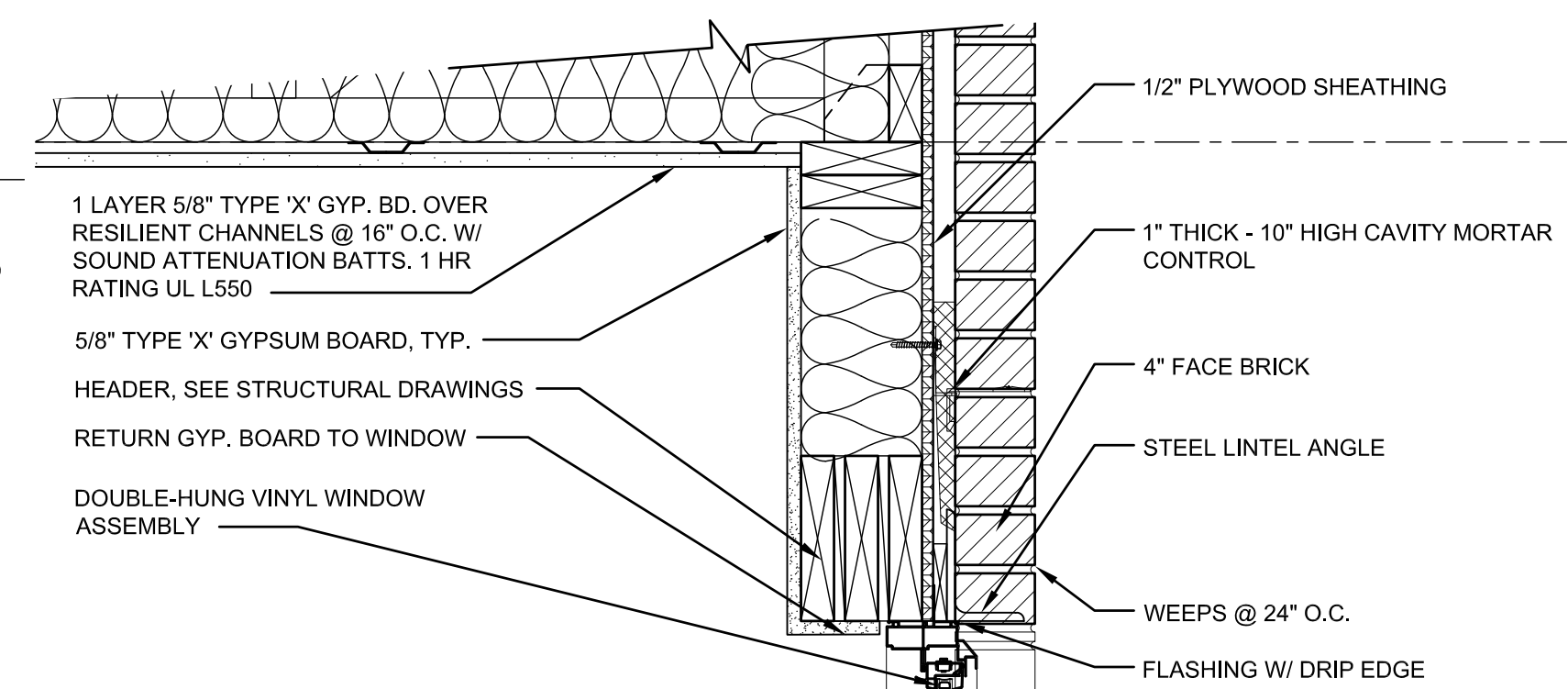
WINDOW TYPES



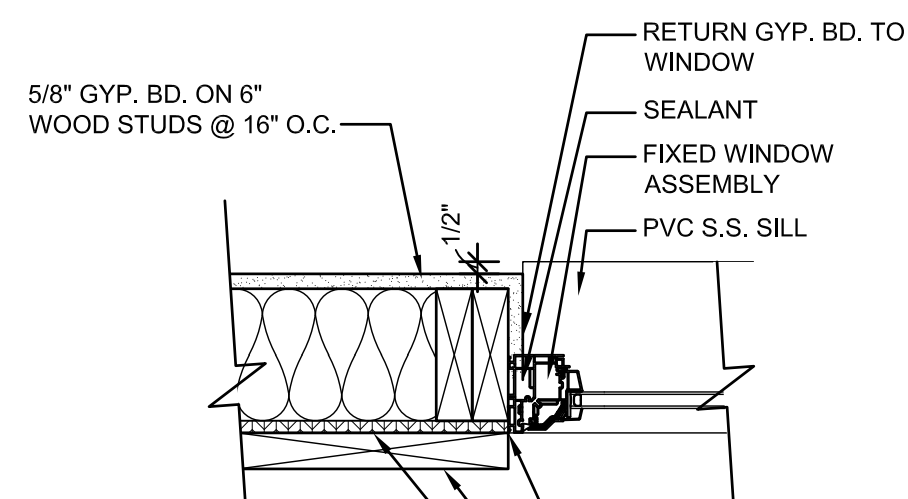
13 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



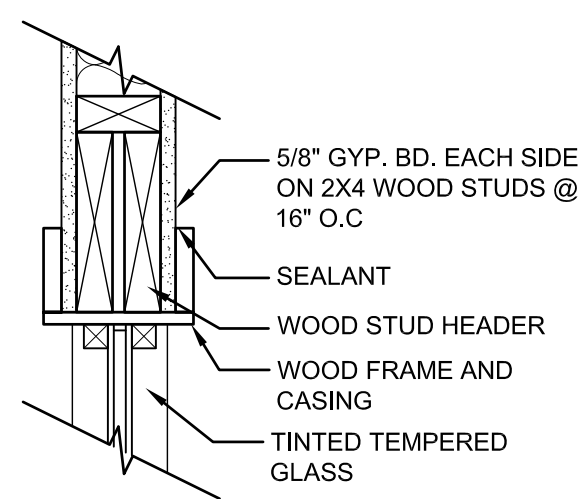
6 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



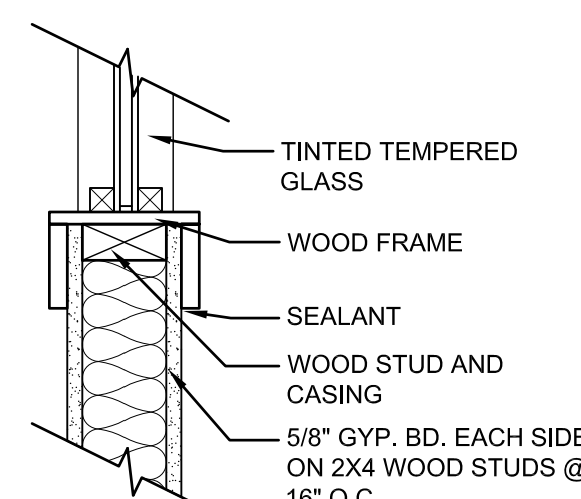
3 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



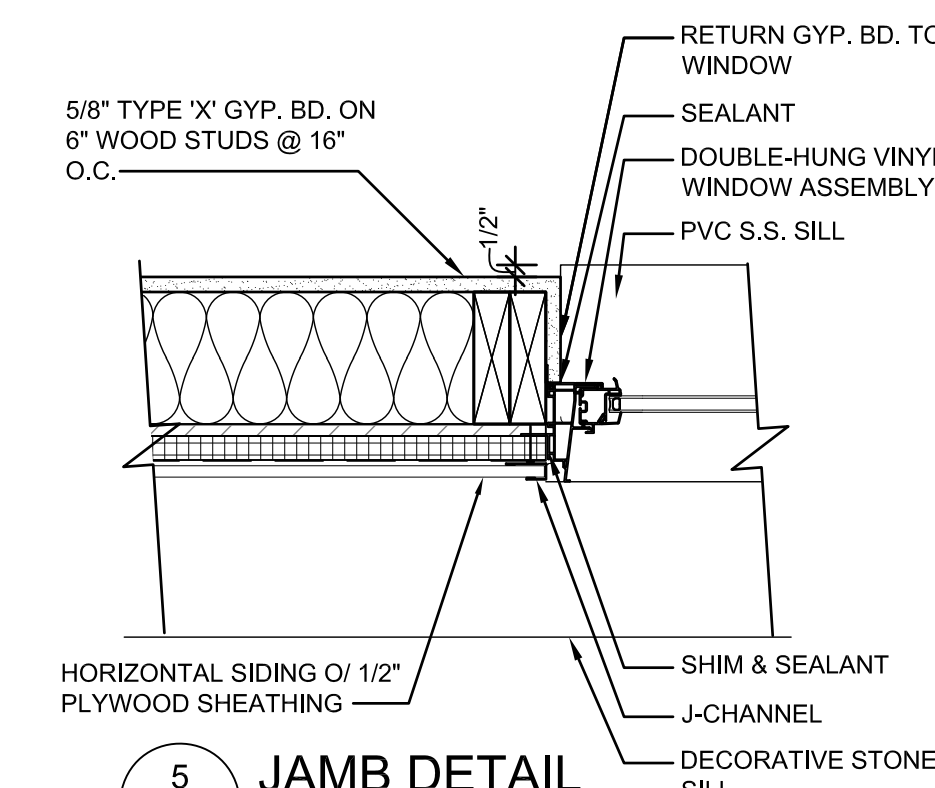
11 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



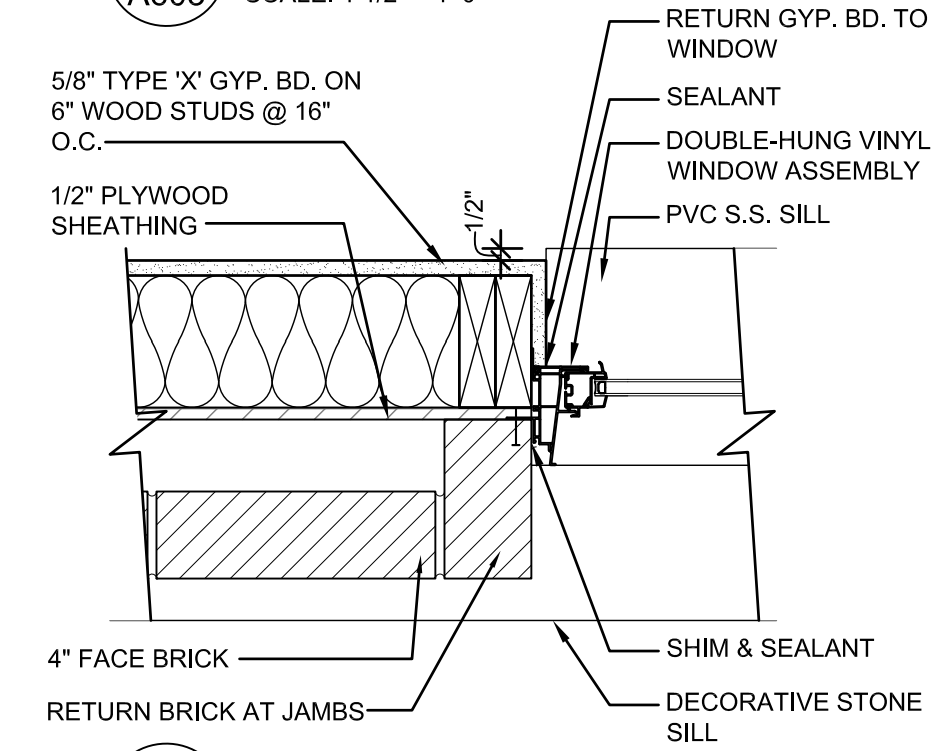
10 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



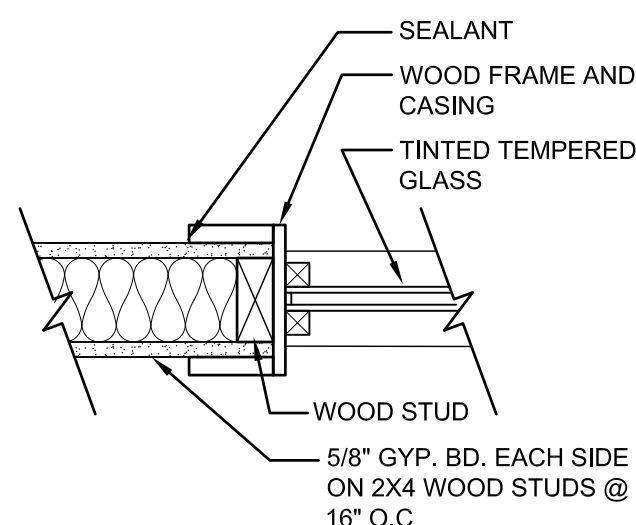
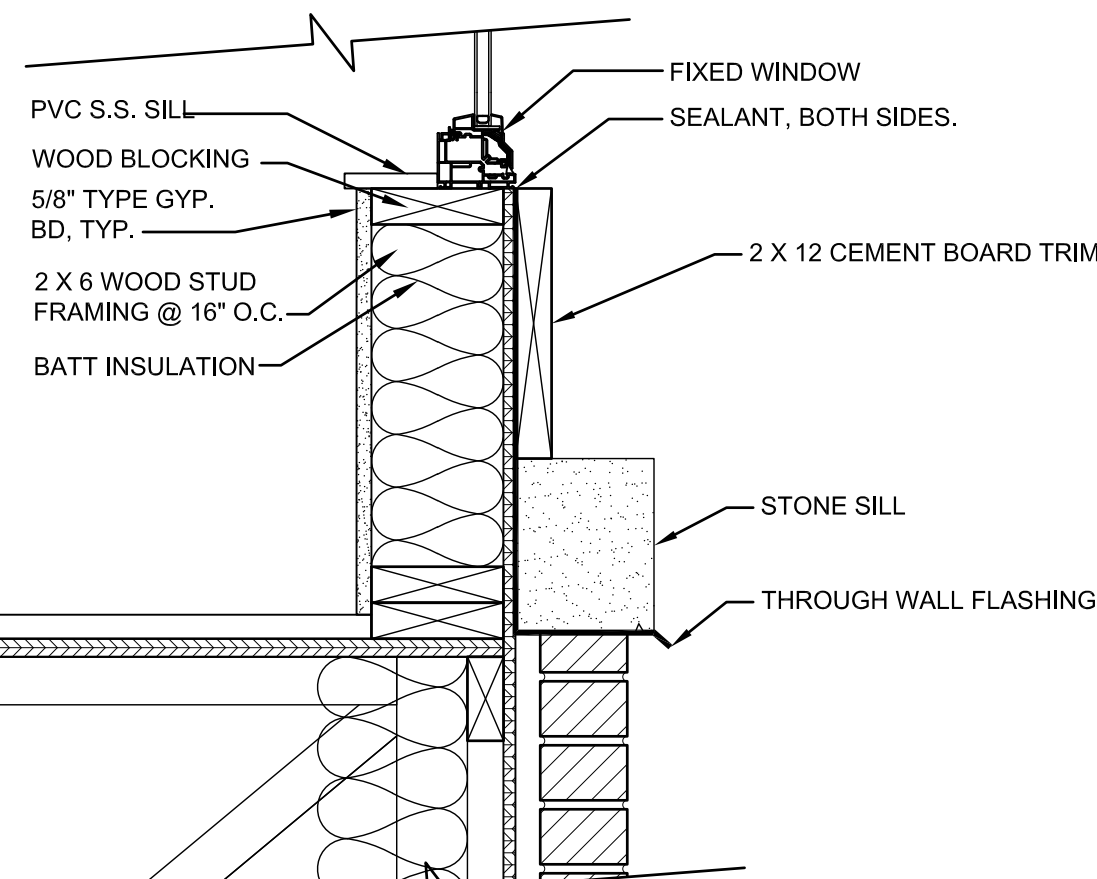
8 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



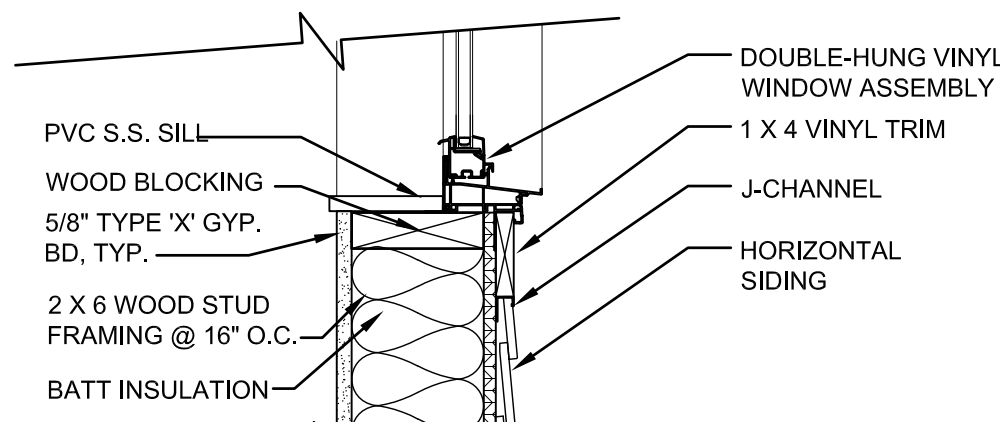
5 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



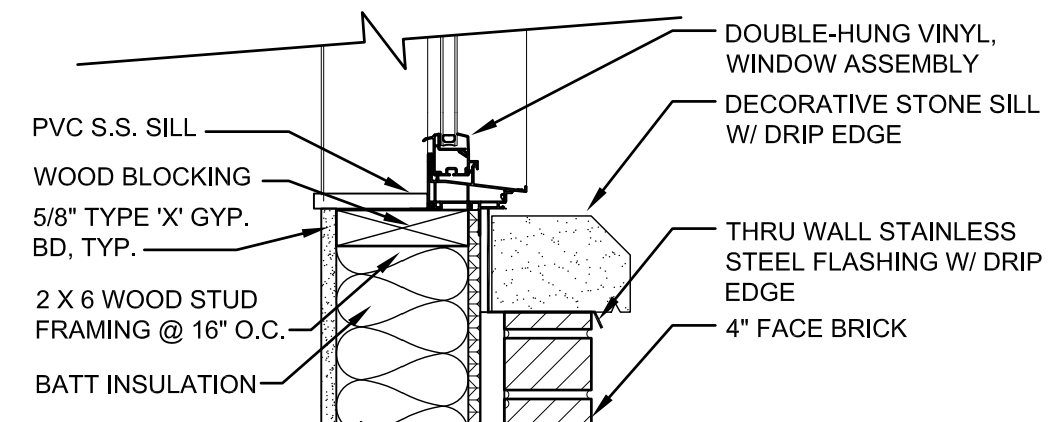
2 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



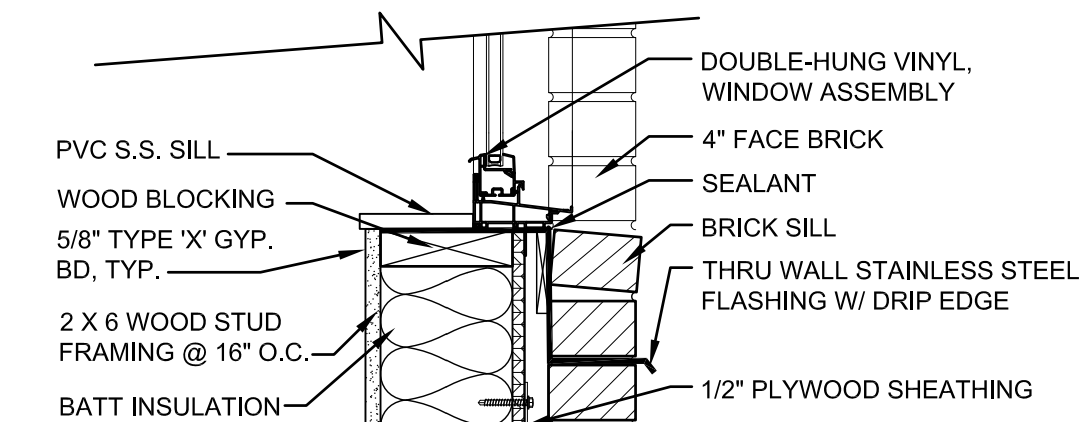
9 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



7 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



4 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



1 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"

WINDOW SCHEDULE & DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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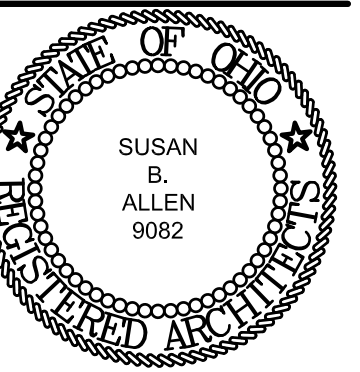
DATE

82A21

PROJECT NUMBER

A603

DRAWING NUMBER



SUSAN B. ALLEN
License #9082
Expiration Date 12/31/2023

REVISIONS

NO.	DATE	DESCRIPTION

DOOR DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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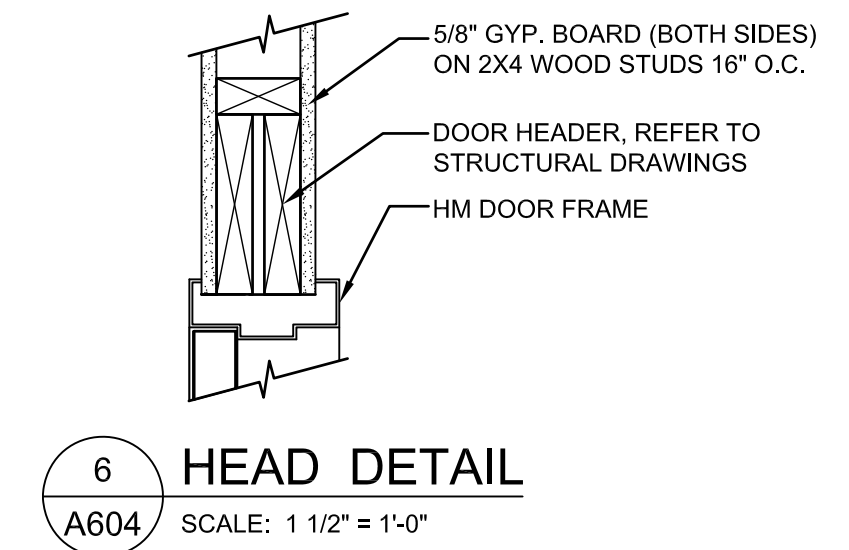
03/31/2023

DATE

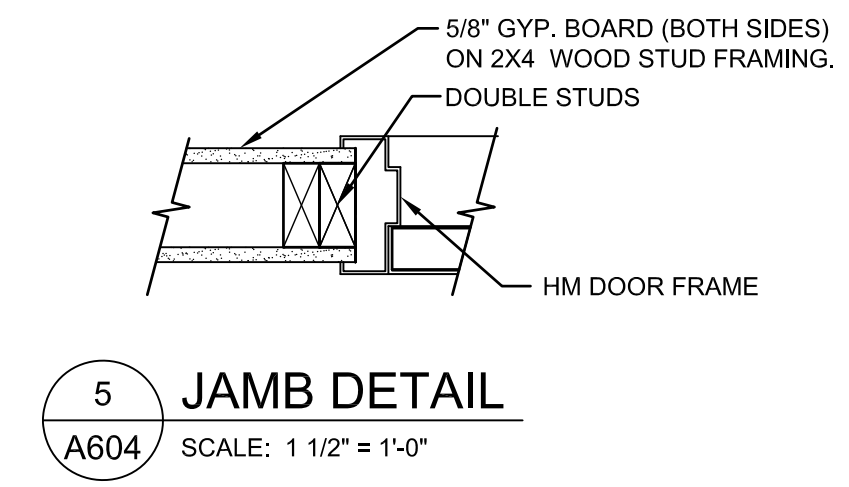
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PROJECT NUMBER

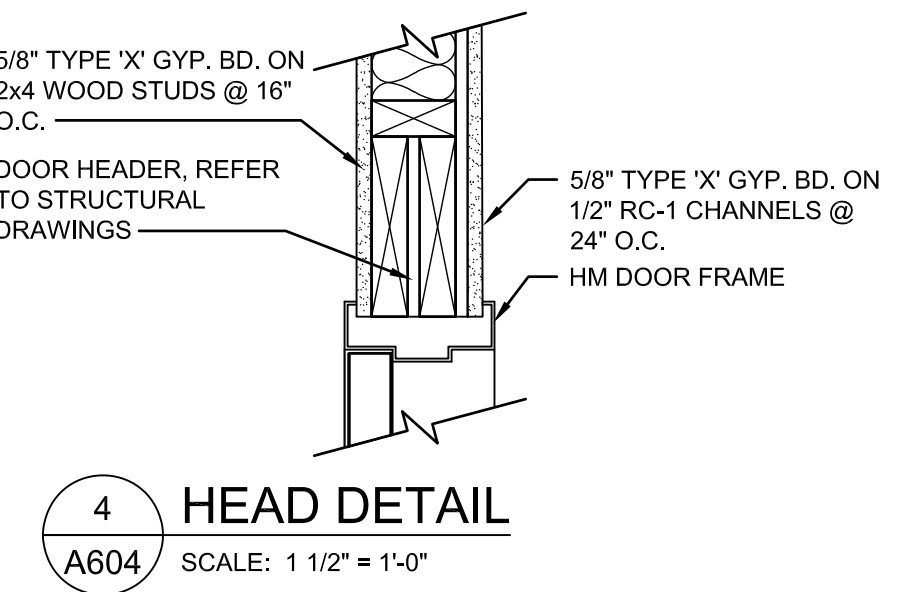
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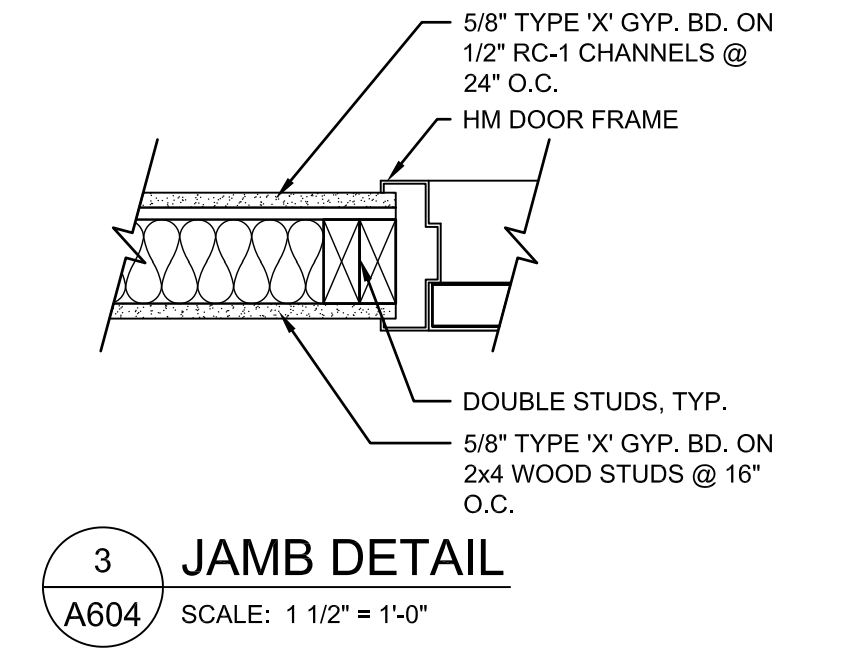
6 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



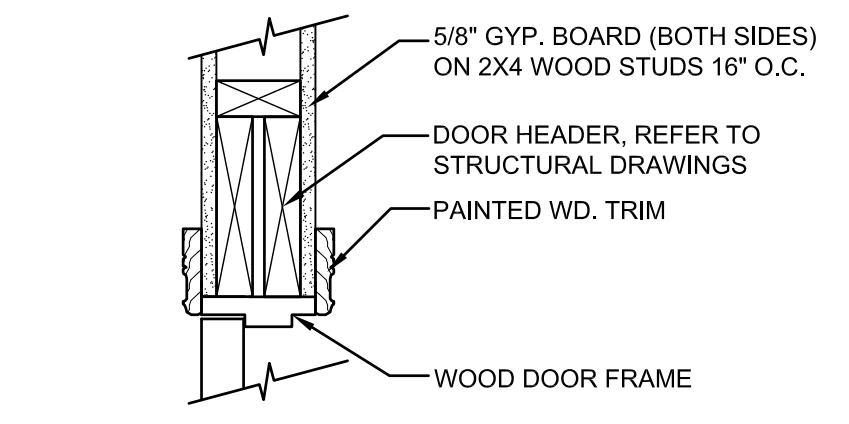
5 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



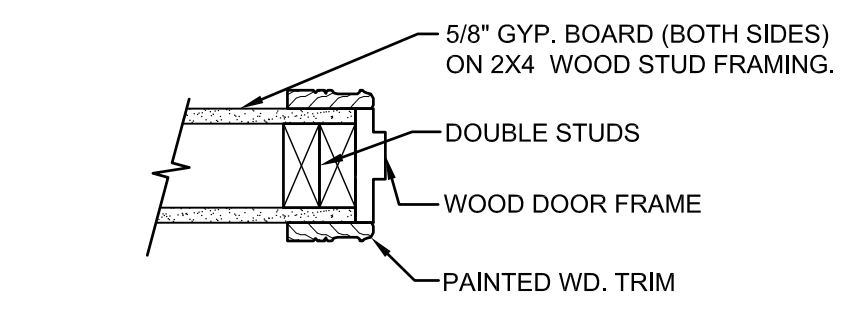
4 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



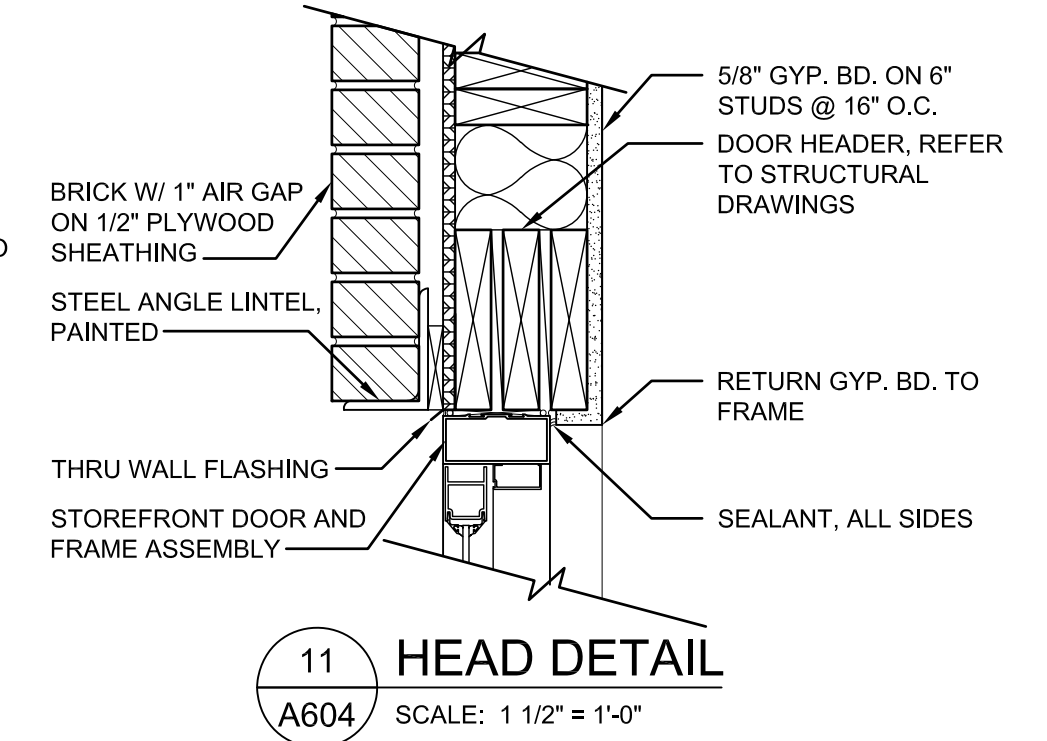
3 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



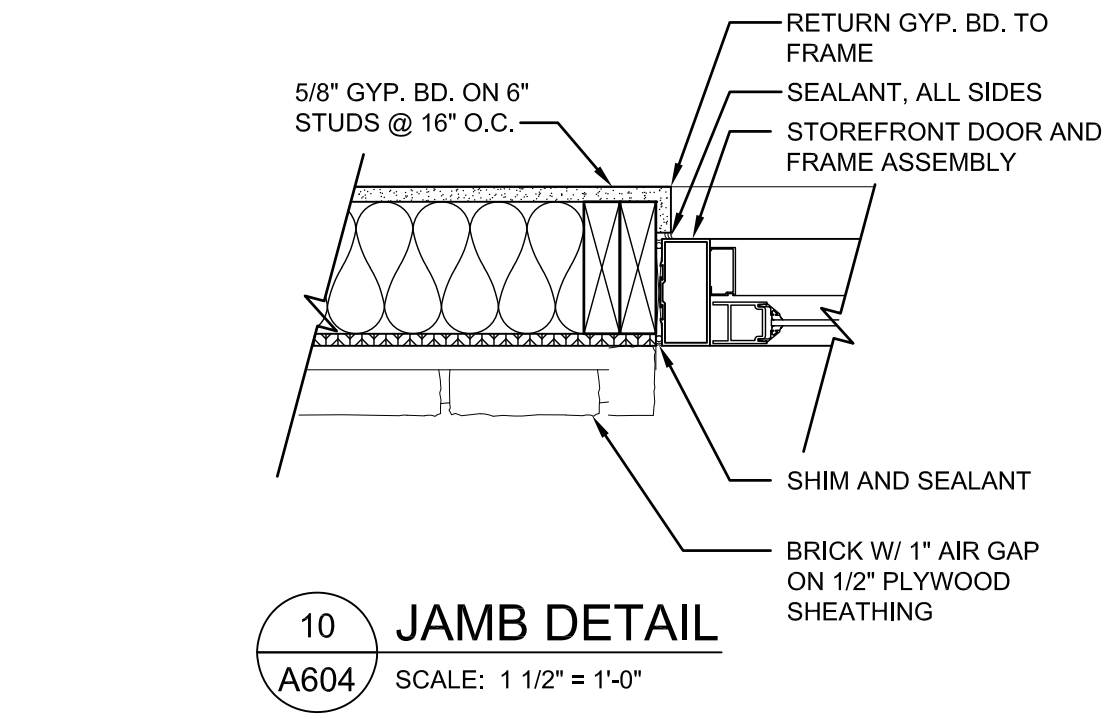
2 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



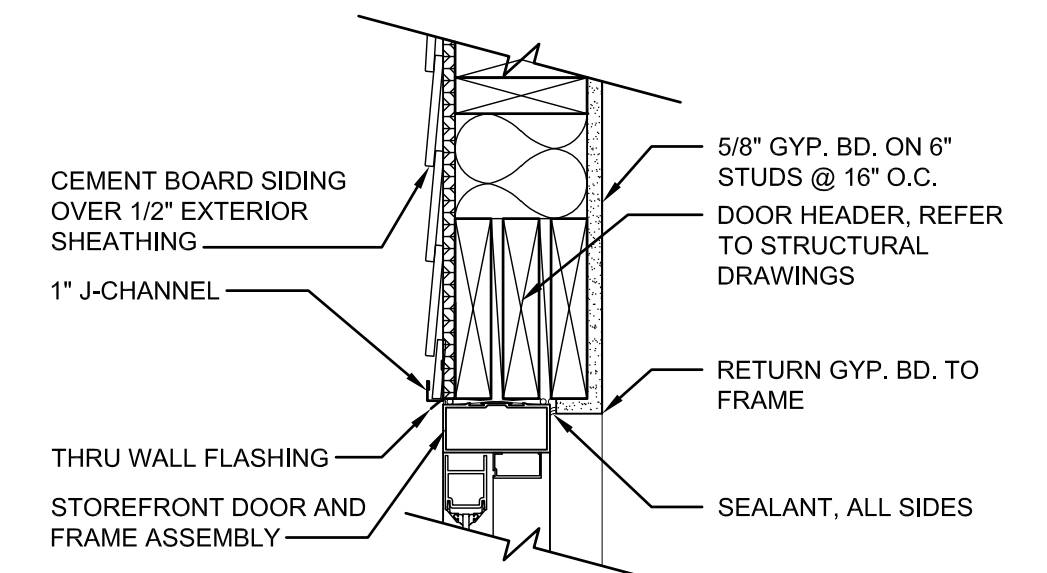
1 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



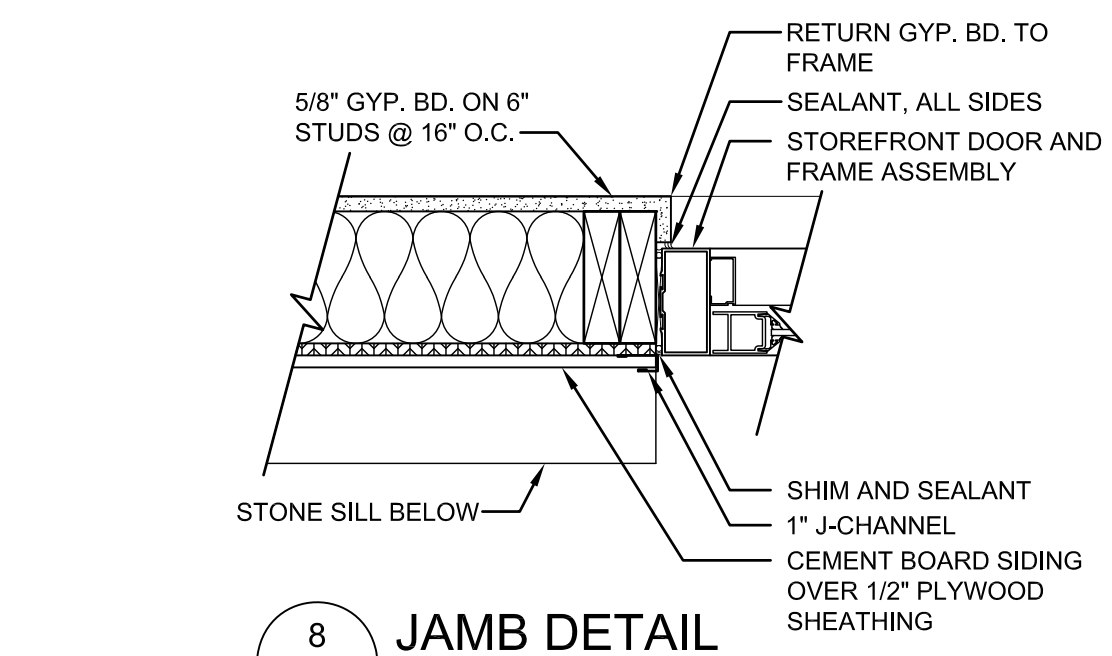
11 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



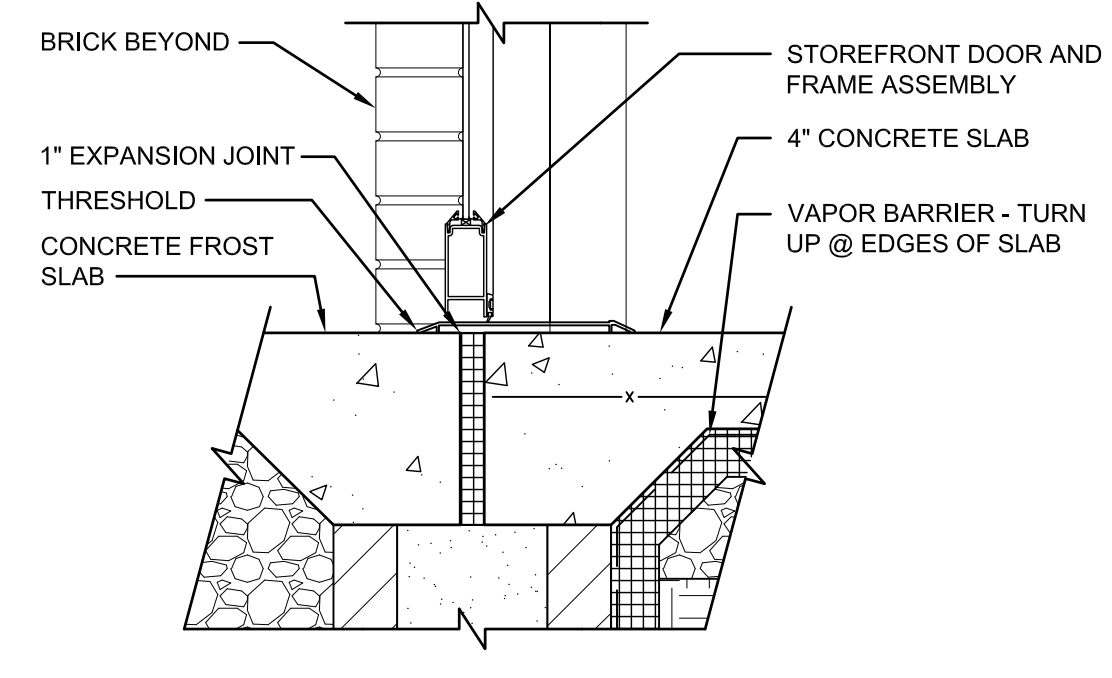
10 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



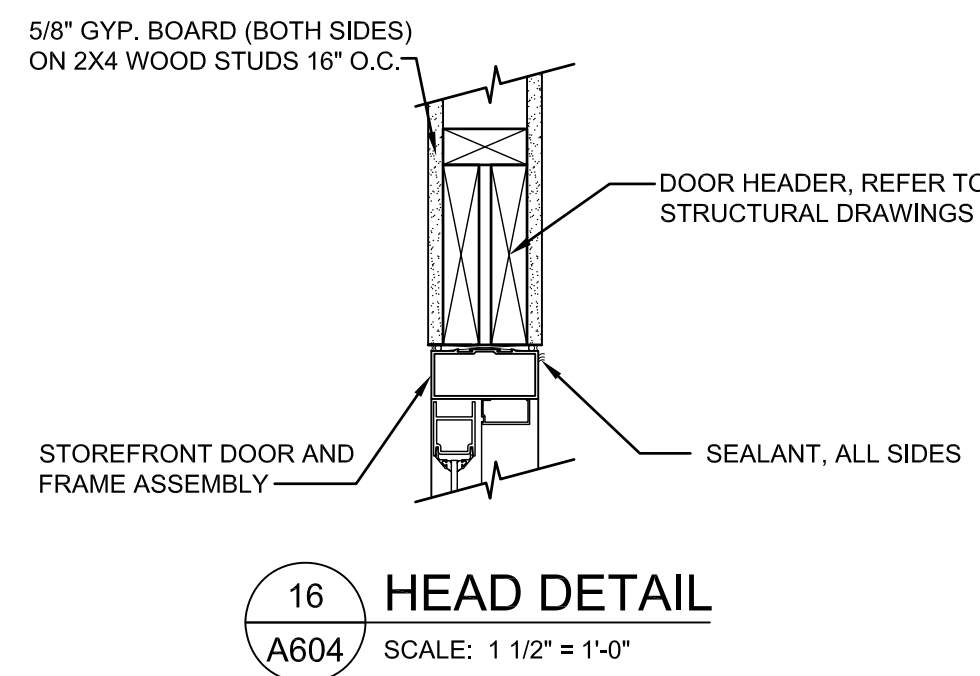
9 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



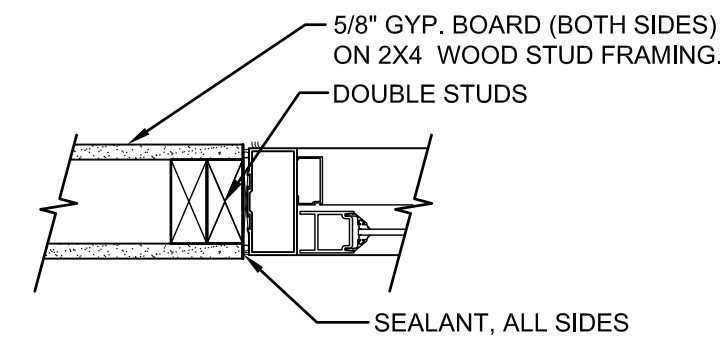
8 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



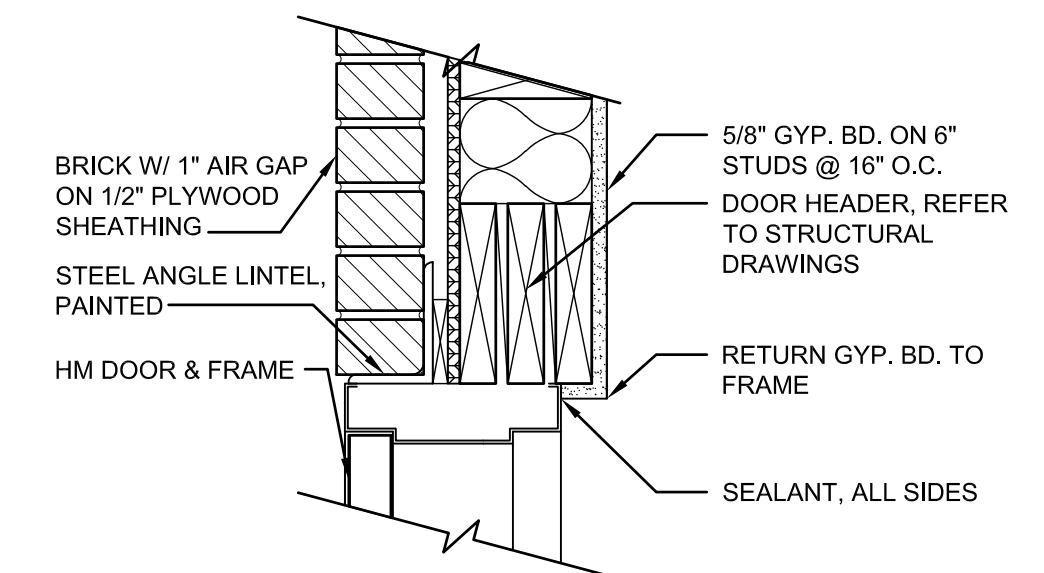
7 SILL DETAIL
A604 SCALE: 1 1/2" = 1'-0"



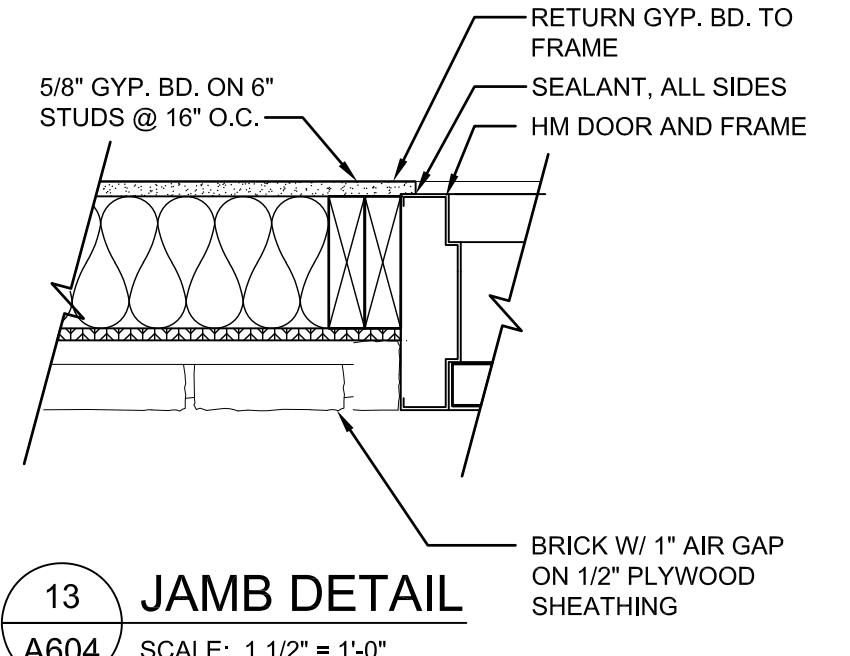
16 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



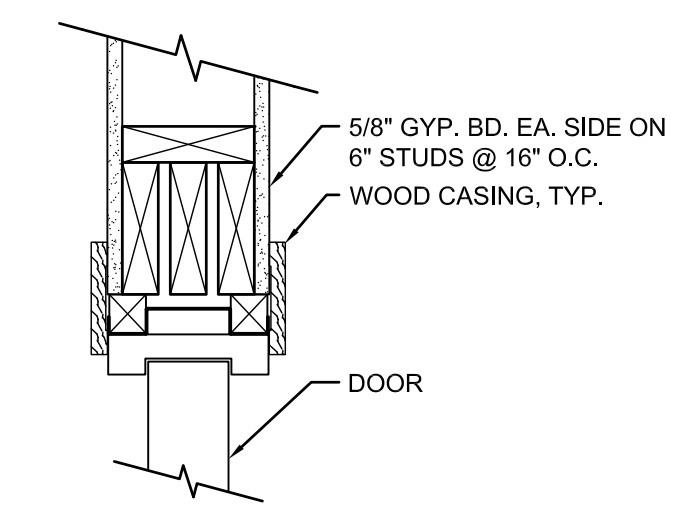
15 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



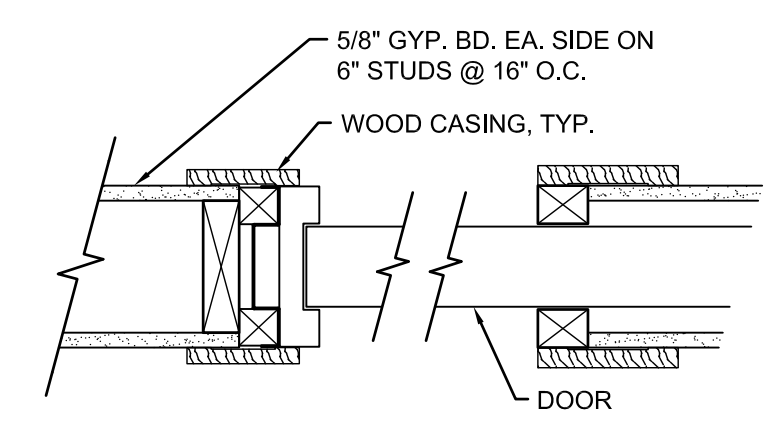
14 HEAD DETAIL
A604 SCALE: 1 1/2" = 1'-0"



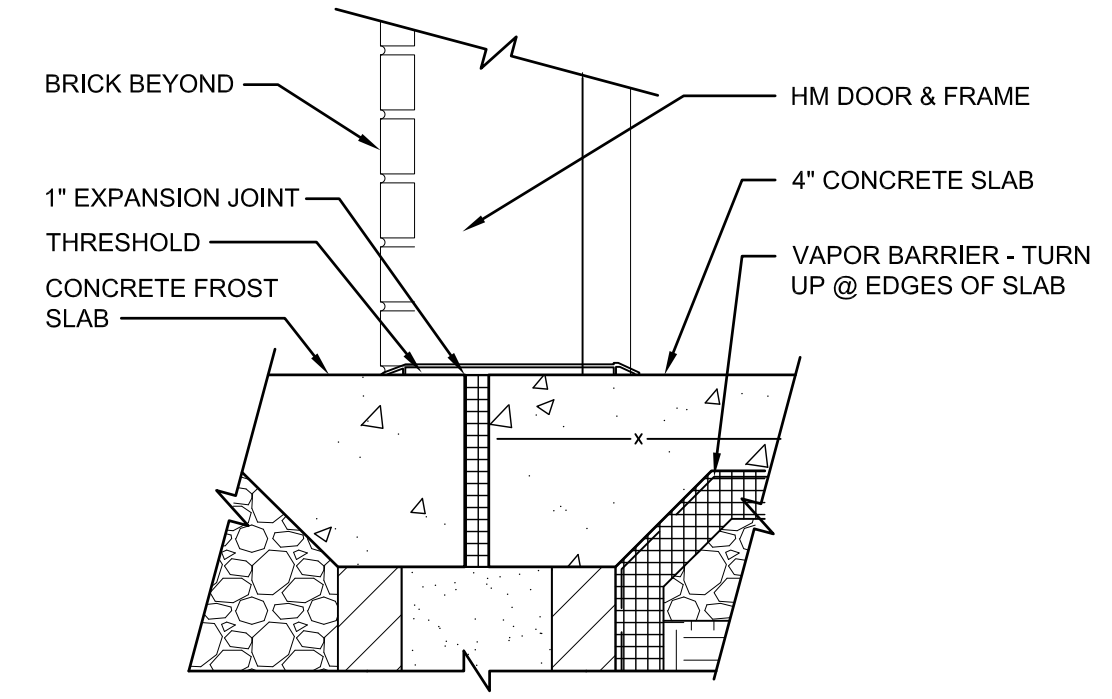
13 JAMB DETAIL
A604 SCALE: 1 1/2" = 1'-0"



18 HEAD DETAIL
A604 SCALE: 1-1/2" = 1'-0"



17 JAMB DETAIL
A604 SCALE: 1-1/2" = 1'-0"



12 SILL DETAIL
A604 SCALE: 1 1/2" = 1'-0"

W:\GDFM\Germantown Crossing-82A21\05Dwg\3CD\A602_A603.dwg Mar 29, 2023 - 2:45pm

UL Product iQ®
 BXUV.U305 - Fire-resistance Ratings - ANSI/UL 263

- Design/System/Construction/Assembly Usage Disclaimer
- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
 - Authorities Having Jurisdiction should be consulted before construction.
 - Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
 - When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
 - Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263
 BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
 BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-Resistance Ratings - ANSI/UL 263 Certified for United States
 Design Criteria and Allowable Variances

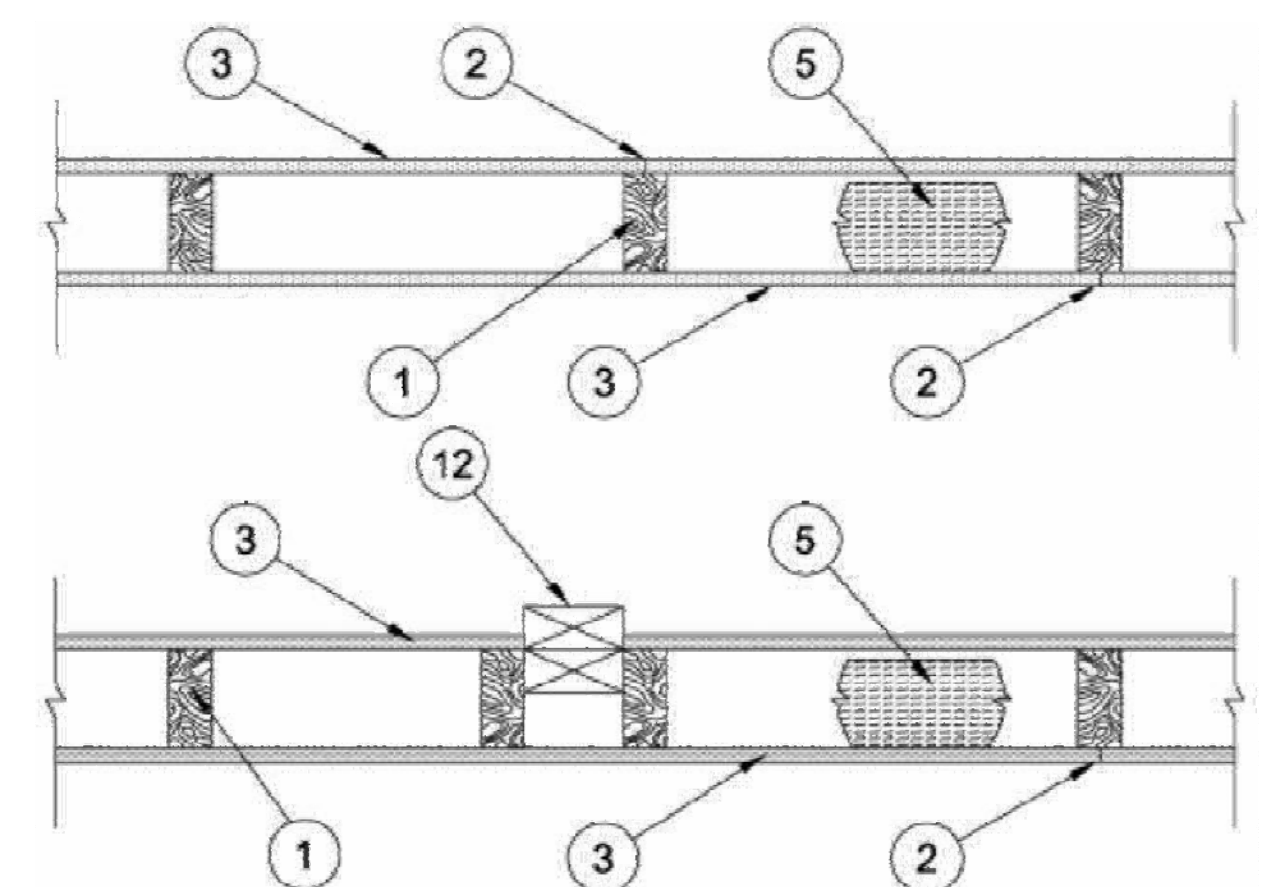
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada
 Design Criteria and Allowable Variances

Design No. U305
 February 3, 2023

Bearing Wall Rating — 1 Hr
 Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L
 STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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



- Wood Studs** — Nom 2 by 4 in. spaced 16 in. OC, max, effectively firestopped.
- Joints and Nail-Heads** — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge boards are used. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nailheads exposed or covered with joint compound.
- Gypsum Board*** — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6F, **Steel Framing Members***. When Items 6, 6B, 6C, 6D, 6E, or 6F, **Steel Framing Members***, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.
- Steel Framing Members***, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.
- Resilient channels** are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type 5 or 5-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.
- AMERICAN GYPSUM CO** — Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min.), Type AGX-12 (finish rating 22 min.), Type LightRoc (finish rating 23 min.) or Type AG-C
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1 (finish rating 24 min.)
- CABOT MANUFACTURING ULC** — Type X (finish rating 22 min.), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

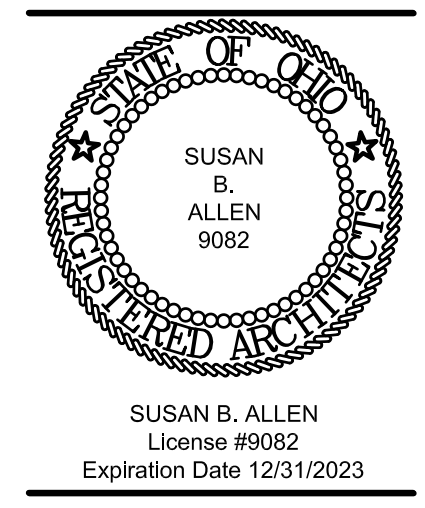
- CERTAINTED GYPSUM INC** — Type C, Type X-1 (finish rating 26 min.), Type EGRG or GlasRoc (finish rating 23 min.), GlasRoc-2, Type Habito (finish rating 26 min.), Type LWTX (finish rating 18 min.), Type LGFC6A (finish rating 34 min.), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min.), Type CLX (finish rating 24 min.)
- CGC INC** — Type AR (finish rating 24 min.), Type C (finish rating 24 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SCX (finish rating 24 min.), Type SHX (finish rating 24 min.), Type ULX (finish rating 22 min.), Type WRC (finish rating 24 min.), Type WRX (finish rating 24 min.), Type ULX (finish rating 20 min.)
- GEORGIA-PACIFIC GYPSUM L L C** — Type 5 (finish rating 26 min.), Type 6 (finish rating 23 min.), Type 9 (finish rating 26 min.), Type C (finish rating 26 min.), Type DGG (finish rating 20 min.), Type GFS1 (finish rating 30 min.), Type GFS2 (finish rating 20 min.), Type GFS6 (finish rating 26 min.), Type DS, Type DAP, Type DD (finish rating 20 min.), Type DA, Type DAPC, Type LS (finish rating 23 min.), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min.), Veneer Plaster Base-Type LWX (finish rating 22 min.), Water Rated-Type LWX (finish rating 22 min.), Sheathing Type-LWX (finish rating 22 min.), Soffit-Type LWX (finish rating 22 min.), Water Rated-Type DGLW (finish rating 22 min.), Sheathing - Type DGLW (finish rating 22 min.), Soffit-Type DGLW (finish rating 22 min.), Type LWX (finish rating 22 min.), Type LW2X (finish rating 22 min.), Veneer Plaster Base - Type LW2X (finish rating 22 min.), Water Rated - Type LW2X (finish rating 22 min.), Sheathing - Type LW2X (finish rating 22 min.), Soffit - Type LW2X (finish rating 22 min.), Type DGLW (finish rating 22 min.), Water Rated - Type DGLW (finish rating 22 min.), Sheathing - Type DGLW (finish rating 22 min.)
- NATIONAL GYPSUM CO** — Type FSK (finish rating 20 min.), Type FSK-G (finish rating 20 min.), Type FSW (finish rating 20 min.), Type FSW-2 (finish rating 24 min.), Type FSW-3 (finish rating 20 min.), Type FSW-5 (finish rating 22 min.), Type FSW-G (finish rating 20 min.), Type FSK-C (finish rating 20 min.), Type FSW-C (finish rating 20 min.), Type FSMR-C, Type FSW-6 (finish rating 20 min.), Type FSL (finish rating 24 min.), Type FSW-8, Type FSLX (finish rating 21 min.), Type RSX (finish rating 26 min.)
- NATIONAL GYPSUM CO** — Riyadh, Saudi Arabia — Type FR, or WR
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types C, PG-2 (finish rating 20 min.), PG-3 (finish rating 20 min.), Types PG-3W, PG-5W (finish rating 20 min.), Type PG-4 (finish rating 20 min.), Type PG-6 (finish rating 23 min.), Types PG-3WS, PG-5WS, PG-5WS (finish rating 20 min.), Types PG-5, PG-9 (finish rating 26 min.), PG-11 PG-13 (Nails increased to 2 in.), Type PG-C or PGL (finish rating 26 min.)
- PANEL REY S A** — Type ARX, GREX, GRDX, PRX, PRC, PRC2; Types RDX, Guard Ray, MDX, ETX (finish rating 22 min.), PRX2 (finish rating 21 min.)
- SIAM GYPSUM INDUSTRY (SARABUR) CO LTD** — Type EX-1 (finish rating 26 min.)
- THAI GYPSUM PRODUCTS PCL** — Type C, Type X (finish rating 26 min.)
- UNITED STATES GYPSUM CO** — Type AR (finish rating 24 min.), Type C (finish rating 24 min.), Type FRX-G (finish rating 29 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SHX (finish rating 24 min.), Type SCX (finish rating 24 min.), Type SGX (finish rating 24 min.), Type ULX (finish rating 22 min.), Type WRX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type ULX (finish rating 20 min.)
- USG BORAL DRYWALL SFZ LLC** — Type SGX (finish rating 24 min.)
- USG MEXICO S A DE C V** — Type AR (finish rating 24 min.), Type C (finish rating 24 min.), Type WRX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SHX (finish rating 24 min.), SCX (finish rating 24 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.), Type ULX (finish rating 22 min.)
- 3A. Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
- AMERICAN GYPSUM CO** — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

- CERTAINTED GYPSUM INC** — Type C, Type X-1 (finish rating 26 min.), Type EGRG or GlasRoc, LWTX
- CGC INC** — Type AR (finish rating 24 min.), Type C (finish rating 24 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SCX (finish rating 24 min.), Type SHX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type WRX (finish rating 24 min.)
- NATIONAL GYPSUM CO** — Type FSW (finish rating 24 min.)
- UNITED STATES GYPSUM CO** — Type AR (finish rating 24 min.), Type SCX (finish rating 24 min.), Type SGX (finish rating 24 min.), Type C (finish rating 24 min.), Type WRX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SHX (finish rating 24 min.), Type FRX-G (finish rating 24 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.)
- USG BORAL DRYWALL SFZ LLC** — Types C, SCX, SGX (finish rating 24 min.)
- USG MEXICO S A DE C V** — Type AR (finish rating 24 min.), Type C (finish rating 24 min.), Type WRX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP-X2 (finish rating 24 min.), Type SHX (finish rating 24 min.), Type SCX, Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.)
- 3B. Gypsum Board*** — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.
- CGC INC** — Types AR, IP-AR
- UNITED STATES GYPSUM CO** — Types AR, IP-AR
- USG MEXICO S A DE C V** — Types AR, IP-AR
- 3C. Gypsum Board*** — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.
- CGC INC** — Type SHX
- UNITED STATES GYPSUM CO** — Type SHX
- USG MEXICO S A DE C V** — Type SHX
- 3D. Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, or 3C — Not Shown) — For Direct Application to Studs Only— Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs or tabs may be used in lieu of or in addition to the lead batten strips or optional at other locations. Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards underneath screw locations prior to the installation of the screws. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
- RAY-BAR ENGINEERING CORP** — Type R8-LBG (finish rating 24 min.)
- 3E. Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, and 3D) — 5/8 in. thick gypsum panels, with square edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last 2 screws 1 and 4 in. from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8

- in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
- GEORGIA-PACIFIC GYPSUM L L C** — Type DGG (finish rating 20 min.), GreenGlass Type X (finish rating 23 min.)
- 3F. Gypsum Board*** — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.
- CGC INC** — Type USGX (finish rating 22 min.)
- UNITED STATES GYPSUM CO** — Type USGX (finish rating 22 min.)
- USG BORAL DRYWALL SFZ LLC** — Type USGX (finish rating 22 min.)
- USG MEXICO S A DE C V** — Type USGX (finish rating 22 min.)
- 3G. Gypsum Board*** — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
- GEORGIA-PACIFIC GYPSUM L L C** — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min.)
- 3H. Gypsum Board*** — (As an alternate to Items 3) — Not to be used with Items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
- NATIONAL GYPSUM CO** — Type SBWB
- 3I. Gypsum Board*** — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock ES (finish rating 20 min.)
- 3I. Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick paper surfaced applied vertically or horizontally. Gypsum panels secured with 1-1/4 in. Type W coarse thread gypsum panel steel screws spaced a maximum of 12 in. OC.
- CERTAINTED GYPSUM INC** — Type SilentFX
- 3K. Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 8 in. OC with the last screw 1 in. from the edge of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
- NATIONAL GYPSUM CO** — Type FSK (finish rating 20 min.), Type FSK-G (finish rating 20 min.), Type FSW (finish rating 20 min.), Type FSW-2 (finish rating 24 min.), Type FSW-3 (finish rating 20 min.), Type FSW-5 (finish rating 22 min.), Type FSW-G (finish rating 20 min.), Type FSK-C (finish rating 20 min.), Type FSW-C (finish rating 20 min.), Type FSMR-C, Type FSW-6 (finish rating 20 min.), Type FSL (finish rating 24 min.)
- 3L. Gypsum Board*** — (As an alternate to Item 3) — For Direct Application to Studs Only — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in. placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, max 5/16 in. diam by max 0.140 in. thick, compression fitted or adhered over the screw heads. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D".
- MAYCO INDUSTRIES INC** — "X-Ray Shielded Gypsum"
- 3M. Gypsum Board*** — (As an alternate to Items 3) — For Direct Application to Studs Only — For use as the base layer or as the face layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field when applied as the base layer. When applied as the

- face layer screw length to be increased to 2-1/2 in. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.
- RADIATION PROTECTION PRODUCTS INC** — Type RPP - Lead Lined Drywall
- 3N. Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick, 4 ft wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.
- CERTAINTED GYPSUM INC** — Easy-Lite Type X (finish rating 24 min.), Easy-Lite Type X-2 (finish rating 24 min.)
- 3O. Wall and Partition Facings and Accessories*** — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock S27 (finish rating 24 min.)
- 3P. Gypsum Board*** — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.
- NATIONAL GYPSUM CO** — Type FSW (finish rating 25 min.)
- 3Q. Gypsum Board*** — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
- CERTAINTED GYPSUM INC** — Type LGFC6A (finish rating 21 min.), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX
- 3R. Gypsum Board*** — (As an alternate to Item 3. For use with Item 5H) — Any 5/8 in. thick, 4 ft wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
- 3S. Gypsum Board*** — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type PG-13
- 3T. Wall and Partition Facings and Accessories*** — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.
- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Type QuietRock 545
- 3U. Gypsum Board*** — (As an alternate to Item 3 - For use with Foamed Plastic products, Item 5J) — 5/8 in. thick, 4 ft wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.
- AMERICAN GYPSUM CO** — Types AGX-1
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1
- CABOT MANUFACTURING ULC** — Type X
- CERTAINTED GYPSUM INC** — Type X

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REVISIONS

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CGC INC — Type SCX

PANEL REY S A — Type ARX, PRX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX and SGX

USG BORAL DRYWALL SFZ LLC — Types SCX and SGX

USG MEXICO S A DE C V — Type SCX

3V. Gypsum Board* — (As an alternate to Item 3. For use with Item 5K) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-5/8 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC at perimeter and in the field.

3W. Gypsum Board* — (As an alternate to Item 3. For use with Item 5L) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field.

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional) — Required when Item 6A is used (RC-1) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.
CERTAINTED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

ROCKWOOL — Types Acoustical Fire Batts and Type AFB, min. density 1.69 pcf / 27.0 kg/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts

ROCK WOOL MANUFACTURING CO — Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF

5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS750LD, INS765LD, INS773LD or SANCTUARY.

Feedback

7

REGUPOL AMERICA — Type SonusClip

6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.
b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC - Type RC4 Assurance Clip

6F. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Fa) to studs. Clips spaced 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6G. Steel Framing Members* — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.
PAC INTERNATIONAL L L C — Type RC-1 Boost

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:

- A. Item 2, above — Nailheads Shall be covered with joint compound.
- B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
- C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
- D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
- E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
- F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

Feedback

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Applegate Greenfiber Acquisition LLC — INS735, INS745, INS750LD, Insulmax, and SANCTUARY for use with wet or dry application. INS515LD, INS541LD, INS735, INS765LD, and INS773LD are to be used for dry application only

5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets (BKNV or BZ1Z)** Categories for names of Classified companies.

5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.

5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed (CCA2)**.
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP — Celbar-RI

5H. Foamed Plastic* — (Optional - For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Neseal™ 2.0 or Neseal™ 2.0 IE Spray Foam and Suxacel Spray Foam.

5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face of the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.
APLEGATE HOLDINGS L L C — Applegate Advanced Stabilized Cellulose Insulation

5J. Foamed Plastic* — (Optional, Not Shown - For use with Item 3U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

5K. Foamed Plastic* — (Optional, Not Shown - For use with Item 3V) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCX, Foamsulate 70, and Foamsulate HFO.

5L. Foamed Plastic* — (Optional, Not Shown - For use with Item 3W) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

Feedback

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10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.

13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.

14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
HOMASOTE CO — Homasote Type 440-32

14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZ1Z) categories for names of Classified companies.

14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.
THERMAFIBER INC — Type SAFB, SAFB FF

14D. Adhesive — (For use with Item 14A) — Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 14A).

14E. Gypsum Board* — (For use with Item 14A) — 5/8 in. thick, 4 ft wide, applied vertically over Mineral and Fiber Board (Item 14A) with vertical joints located anywhere over stud cavities. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 14A). Secured to outermost studs and bearing plates with 2 in. long Type S screws spaced 8 in. OC. Gypsum Board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 Min.
AMERICAN GYPSUM CO — Type AG-C

Feedback

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BASF CORP — Types EnerLite® NM, EnerLite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL

6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
PLITEQ INC — Type Genie Clip

6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.
STUDCO BUILDING SYSTEMS — RESLMOUNT Sound Isolation Clips - Type A237 or A237R

6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.
b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.

Feedback

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CGC INC — Types C, IP-XJ, IPC-AR

CERTAINTED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types FSK-C, FSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-C

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-XJ, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-XJ, IPC-AR

14F. Mineral and Fiber Board — (Optional, Not Shown) — For optional use as an additional layer on one side of wall - Nom 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on one side of the wall in between the wood studs and the UL Classified Gypsum Board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.
BLUE RIDGE FIBERBOARD INC — SoundStop

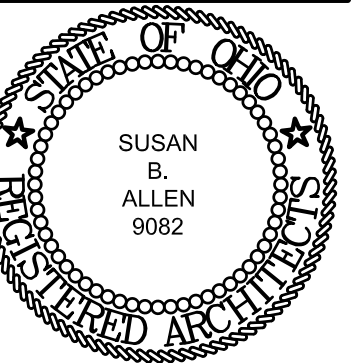
14G. Building Units — (Optional Item Not Shown - For use over Gypsum Board, Item 3) 1 in., 2 in. or 3 in. thick, 4 ft. wide - Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with wafer head screws of adequate length to penetrate framing by a minimum of 3/4 in., spaced a max 8 in. o.c.

NATIONAL GYPSUM CO - Type PBCL

* Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2023-02-03

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REVISIONS

UL ASSEMBLIES GERMANTOWN CROSSING DAYTON OHIO



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TURNING VISIONS INTO REALITY

03/31/2023 DATE 82A21 PROJECT NUMBER

A606 DRAWING NUMBER

BXUV.U311 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

[See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances](#)

[See General Information for Fire-resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances](#)

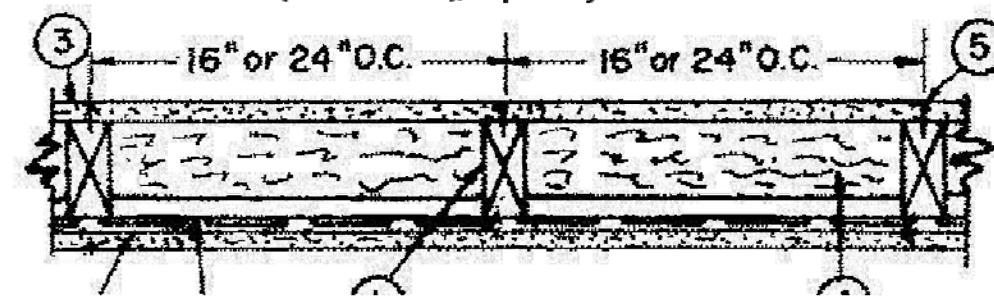
Design No. U311

December 01, 2022

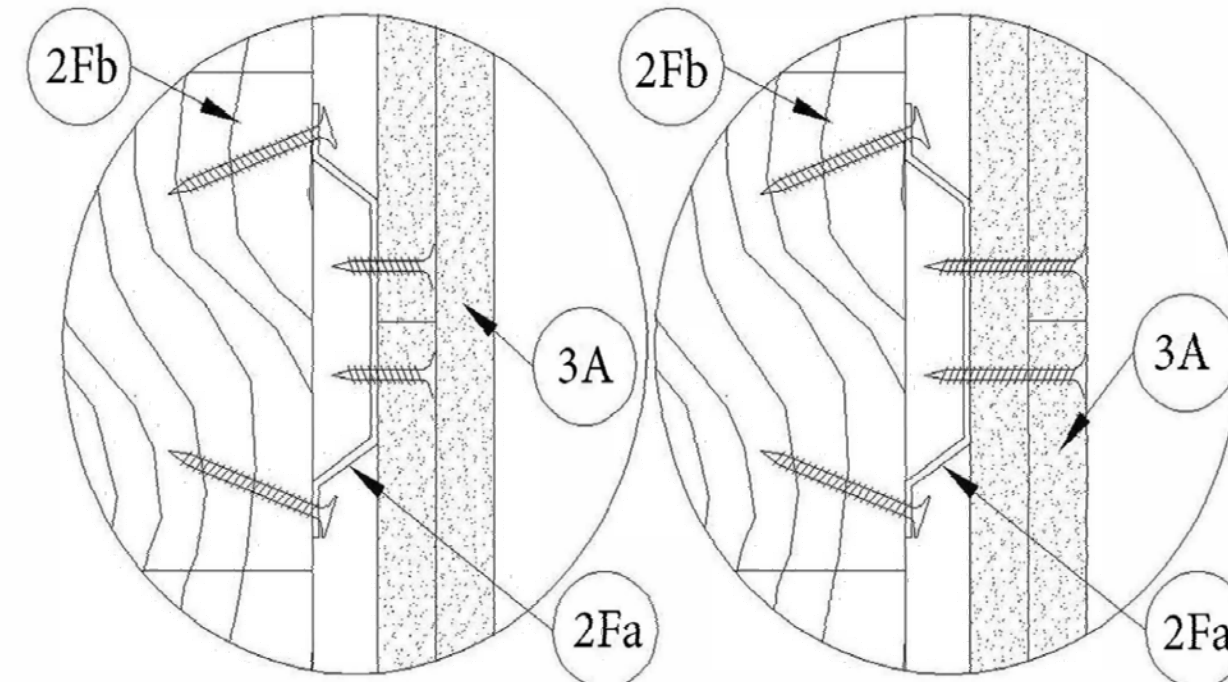
Bearing Wall Rating — 1 HR.
Finish Rating — 23 Min.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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

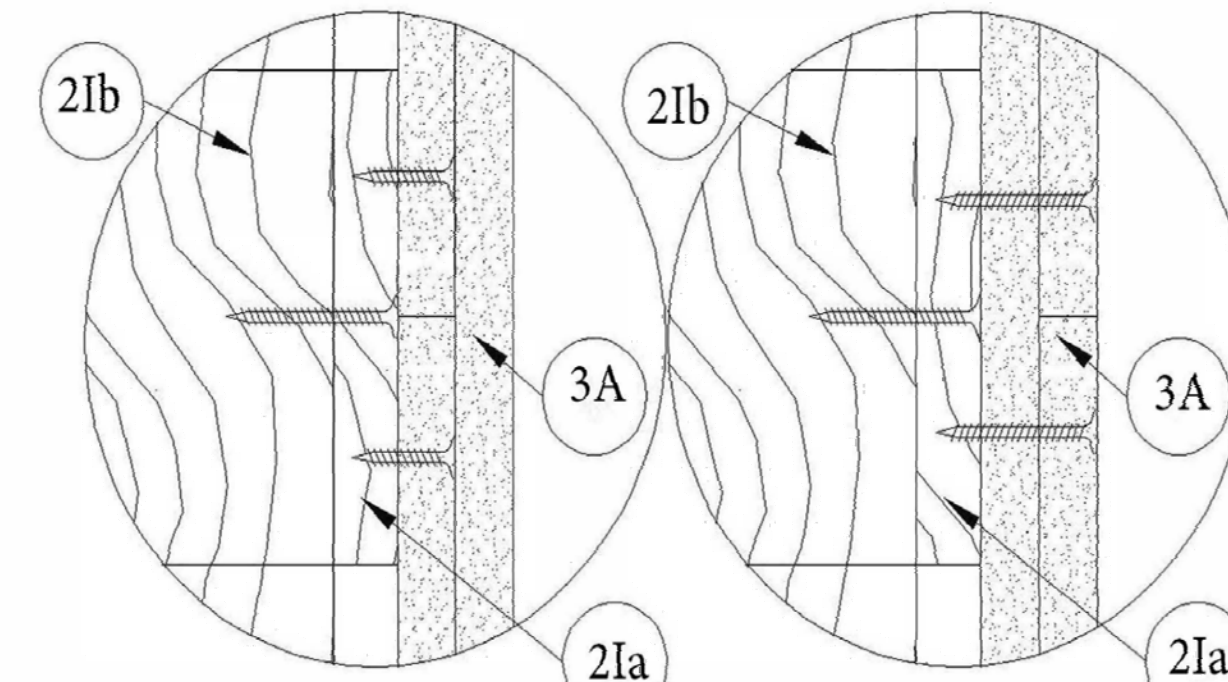


Feedback



Base Layer End Joint Detail

Second Layer End Joint Detail



Base Layer End Joint Detail

Second Layer End Joint Detail

1. **Wood Studs** — Nom 2 by 4 in., spaced 16 or 24, OC. Effectively cross braced.
2. **Resilient Channel** — 25 MSG galv steel. Resilient channels spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws.

Feedback

2A. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — As an alternate to Item 2, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to studs (Item 1). Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels. PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-1 (2.75).

2B. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITEQ INC — Type Genie Clip

2C. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ca) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUOCO BUILDING SYSTEMS — RESLMOUNT Sound Isolation Clips — Type A237R

2D. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 2Db. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Da) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

2E. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Resilient channels and Steel Framing Members as described below:

a. **Resilient Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Trustal screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.

b. **Steel Framing Members*** — Used to attach resilient channels (Item 2Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

Feedback

2F. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. First channel centered max. 3 in. from end of studs. Channels secured to rafts with two angled 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the channel. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 3A.

b. **Framing Members*** — Used to attach furring channels (Item 2Fa) to studs (Item 1). Rafts secured to each stud, spaced a maximum of 48 in. OC, vertically. Staggered 24 inch on center vertically on each adjacent stud. At the beginning or end of furring channel runs, additional rafts installed to support the ends of all furring channels. At stud ends, rafts may be installed on plates to achieve required furring channel spacing. Secured with two 1-5/8 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts. BCD LLC — Type HushFrame Raft Connector

2G. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Used as an alternate method to attach resilient channels to wall studs. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 or 24 in. OC (depending on stud spacing). Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum board screws spaced 8 in. OC (in lieu of 12 in.) when used. PAC INTERNATIONAL L L C — Type RC-1 Boost

2H. **Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 2) — Furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.

b. **Steel Framing Members*** — Used to attach furring channels (Item 2Ha) to studs. Clips spaced maximum 48 in. OC. Clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips.

CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

2I. **Framing Members** - (Optional, Not Shown, As an alternative to Item 2) — Furring channels and Framing Members as described below:

a. **Furring Strips** — Nominal 1 in. deep by 3 in. wide wooden furring strips, spaced 24 in. OC perpendicular to studs. First channel centered max. 3 in. from end of studs. Furring secured with one 2 in. long Type W screw into the rafts. Ends of adjoining furring butted, between studs, and jointed with an overlapping 12 in. furring strip fastened with two 2 in. long Type W screws equally spaced on both sides of the butt joint. Two layers of gypsum board attached to furring strips as described in Item 3A.

b. **Framing Members*** — Used to attach furring channels (Item 2Ia) to studs (Item 1). Rafts secured to each stud, spaced a maximum of 48 in. OC, vertically. Staggered 24 inch on center vertically on each adjacent stud. At the beginning or end of furring channel runs, additional rafts installed to support the ends of all furring channels. At stud ends, rafts may be installed on plates to achieve required furring channel spacing. Secured with two 1-5/8 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

BCD LLC — Type HushFrame Raft Connector

3. **Gypsum Board*** — 5/8 in. thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 12 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 12 in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced 12 in. OC. Vertical joints shall be located over studs on this side of the wall. AMERICAN GYPSUM CO — Types AG-C

Feedback

CERTAINTED GYPSUM INC — Type C

CGC INC — Types C, IP-X2, IPC-AR, ULX

CERTAINTED GYPSUM INC — Type LGFC-C/A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C

NATIONAL GYPSUM CO — Types -EXP-C, FSK-C, FSW-C, FSW-G

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C or PG-C

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop M2TECH, Gyproc FireStop ACTV/AR, Gyproc FireStop MR ACTV/AR, Gyproc FireStop M2TECH ACTV/AR, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine MR ACTV/AR, Gyproc DuraLine M2TECH, Gyproc DuraLine ACTV/AR, Gyproc DuraLine MR ACTV/AR, Gyproc DuraLine M2TECH ACTV/AR

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULX

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

3A. **Gypsum Board*** — (For use with Item 2F and 2D) - Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKND) eligible for use in Design No. G512. Two layers, applied vertically, and attached to steel studs (Item 2A) and furring (Item 2Fa or 2Ia). Vertical gypsum board side joints offset 24 inches between layers. Vertical joints staggered one stud cavity on opposite sides of studs. Type W steel screws used for wood framing. Type 5 steel screws used for steel framing. Attachment to furring channels - First layer - 1-1/4 in. long, 3, 6 and 18 inches from each board edge. Second layer - 1-7/8 in. long (2 in. with wood framing), spaced 12 inch OC with first fastener 2 in. from vertical board edge. Direct attachment to framing - First layer (to plates) - 1-1/4 in. long, 3, 6 and 18 inches from each board edge. First layer (to studs) - 1-1/4 in. long, 3, 6 and 18 inches board ends and 24 in. OC thereafter. Second layer - 1-7/8 in. long, spaced 2 inch from each board edge and 12 in. OC thereafter.

4. **Batts and Blankets*** — 3-1/2 in. thick mineral wool batts, placed to fill interior of wall, attached to the 4-in. face of the studs with staples placed 24 in. OC. JOHNS MANVILLE

ROCKWOOL — Types Acoustical Fire Batts and AFB, min. density 1.69 pcf / 27.0 lbs/m³

ROCKWOOL MALAYSIA SDN BHD — Type Acoustical Fire Batts.

ROCK WOOL MANUFACTURING CO — Type Delta Board

THERMAFIBER INC — Type SAFB, SAFB FF.

3B. **Gypsum Board*** — (As an alternate to Item 4) - 5/8 in. thick, 4 ft wide. Screw attached on one side of wall to furring channels with 1 in. long, self-drilling, self-tapping steel screws spaced 7 in. OC, vertical joints located midway between studs and back blocked with furring channels, attached with 1 in. long, self-drilling, self-tapping screws, spaced 7 in. OC, along each edge. Gypsum board on opposite side of wall attached directly to studs with 1-7/8 in. nails or screws spaced 7 in. OC.

Feedback

PANEL REY S A — Type PRO2

4A. **Glass Fiber Insulation** — (As an alternate to Item 4) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See **Batts and Blankets** (BKNV or BZIZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lbs/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lbs/ft³, in accordance with the application instructions supplied with the product.

Applegate Greenfiber Acquisition LLC — IN5735, IN5745, IN5750LD, Insulmax, and SANCTUARY for use with wet or dry application. IN5515LD, IN5541LD, IN5735, IN5765LD and IN5773LD are to be used for dry application only

4C. **Fiber, Sprayed*** — As an alternate to Items 4, 4A, and 4B — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 4.58 lbs/ft³.

NU-WOOL CO INC — Cellulose Insulation

4D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 4) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP — Celbar-RL

5. **Joints and Screw Heads** — Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, non 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

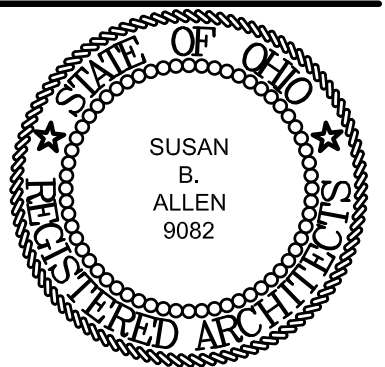
6. **Wall and Partition Facings and Accessories*** — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board. PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510

7. **Mineral and Fiber Board** — (Optional, Not Shown) — 1/2 in. thick, 4 ft wide, square edge fiber boards applied vertically to studs on the side of the wood framing without the resilient channels, in between the wood framing and the UL Classified gypsum board (Item 3). Fiber boards installed with 1-1/4 in. long, Type W, bugle head, coarse thread gypsum board screws spaced 12 in. OC max, with the last screws spaced 2 in. and 6 in. from edge of board. Gypsum board (Item 3) installed horizontally or vertically and fastened through the fiber boards to wood framing with 2 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Gypsum board joints staggered from fiber board joints. Fiber boards not evaluated or intended as a substitute for the required layer of UL Classified Gypsum Board. BLUE RIDGE FIBERBOARD INC — SoundStop

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

Last Updated on 2022-12-02

Feedback



SUSAN B. ALLEN
 License #9082
 Expiration Date 12/31/2023

REVISIONS

NO.	DATE	DESCRIPTION

UL ASSEMBLIES
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TURNING VISIONS
 INTO REALITY

03/31/2023
 DATE

82A21
 PROJECT NUMBER

A607
 DRAWING NUMBER

Feedback

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A D E C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding minimum thickness of floor topping over floor mat.
GRASSWORX L L C — SC Types

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 3/8 in. thick loose laid over the subfloor. Floor topping shall be a min 1 in. thick.

System No. 11

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NesGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 5/64 in. - 16/64 in. thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, EM.125, EM.125S, EM.250, EM.250S.

Alternate Floor Mat Material* - (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.
ARCOSA SPECIALTY MATERIALS — AccuQuiet Types D25, D38, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12

Subflooring — 15/32 or 19/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 or 1 in. thickness of floor topping mixture for 19/32 or 15/32 in. thick wood structural panels respectively, having a min compressive strength of 2100 psi. Refer to manufacturer's instructions accompanying the material for specific mix design. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats).

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Feedback

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Floor Mat Materials* — (Optional) — Nom 1 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
PLITEQ INC — Type GenieMat FF25

System No. 17

Subflooring — Structural Cement-Fiber Units* — Nominal 19 mm (3/4 in.) thick tongue and groove structural cement-fiber units. Long dimension of panels to be perpendicular to joists with end joints staggered. Panels fastened to the joists with #10 self-drilling, self-tapping cement board screws 1-3/4 in. long. Screws shall be spaced 6 in. OC along the perimeter of each sheet and 12 in. OC in the field of each sheet. Screws shall be spaced 1/2 in. from end joints and 1 in. from side joints.
ECTEK INTERNATIONAL INC — Amroc Panel

Subflooring (Alternate) — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to joists with end joints staggered a min of 4 ft. and centered over the joists. Boards secured to joists with 1-1/4 in. long self-drilling, self-tapping screws or 2 in. x 0.113 in. Ring Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.
ECTEK INTERNATIONAL INC — Type MegaBoard

Vapor Barrier (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Min 1 by 4 in. T & G lumber fastened diagonally to joists, or min 19/32 in. wood structural panels, min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered. Finish Flooring is optional when the alternate subfloor Type MegaBoard is used.

System No. 18

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.
 See **Floor- and Roof-Topping Mixtures (CCOQ)** category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats).

Floor Mat Materials* — (Optional) — Floor mat material nominal 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flo CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flo, Acousti-flo CSM. Floor topping thickness depends on products used as follows:

Acousti-flo (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.
 Acousti-flo (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-flo (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.
 Acousti-flo (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 19

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "sheathing." Face grain of plywood or strength axis of panels to be perpendicular to the joist with joints staggered.

Wall and Partition Facings and Accessories* - Sound Barrier (Optional) — Acoustic Sleeper pads stapled to the top of the subfloor, the bottom of the finish floor, or to 5/16 in. thick by 1-1/2 in. wide wood strips and centered over wood joist. Acoustic Sleeper pads are to be spaced appropriately so that the finish floor panels are fastened through Acoustic Sleeper pads to the joist.

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Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 55/025 and Quiet Quirl 55/025 N

Alternate Floor Mat Materials* — (Optional) - Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 60/040 and Quiet Quirl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 65/075, Quiet Quirl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 52/013 and Quiet Quirl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Quirl 55/025 MT and Quiet Quirl 55/025 N MT

System No. 14

Subflooring — Min 23/32 in. thick T&G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the joists with end joints staggered 4 ft. Panels secured to joists with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each joist. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Gypsum Board* — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS

Floor Mat Materials* — (As an alternate to the single layer gypsum board) — Floor mat material loose laid over the subfloor.
MAXXON CORP — Type Encapsulated Sound Mat

Gypsum Board* — (For use when floor mat is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type G bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches in between layers and from the joints of the subfloor.
GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 15

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

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STC ARCHITECTURAL PRODUCTS L L C DBA STC SOUND CONTROL — Acoustic Sleeper

Finish Floor — Min 19/32 in. wood structural panels min grade "Underlayment" or "Single Floor". Face grain of plywood or strength axis of panels to be perpendicular to joists with joints staggered and panels fastened through to joist. Butt joints of panels have the option of being sealed with any UL Classified caulk or sealant found under - Fill, Void or Cavity Materials® (KHWW).

System No. 20

Subflooring — Min 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NesGen, Green, Prime, and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30.

Alternate Floor Mat Material* — (Optional) - Floor mat material nominal 5/64 in. - 16/64 in. thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D-18, D25, EM.125, EM.125S, EM.250, EM.250S.

Alternate Floor Mat Material* — (Optional) - Floor mat material nominal 17/64 - 48/64 in. thick loose laid over the subfloor. Floor topping shall be a min of 1 in.
ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D38, EM.375, EM.375S, EM.750, and EM.750S.

System No. 21

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 22

Subflooring — Min 1 by 6 in. T & G lumber fastened diagonally to joists, or min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.

Vapor Barrier — (Optional) - Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) - Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
LOW & BONAR INC — EntaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

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DEPENDABLE LLC — GSL M3A, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 55/025 and Quiet Quirl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 60/040 and Quiet Quirl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 65/075, Quiet Quirl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Type Quiet Quirl 52/013 and Quiet Quirl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Quiet Quirl 55/025 MT and Quiet Quirl 55/025 N MT

System No. 16

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom 3/32 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat RST02

Floor Mat Materials* — (Optional) — Nom 3/16 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat FF03NP

Floor Mat Materials* — (Optional) — Nom 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
PLITEQ INC — Type GenieMat FF06

Floor Mat Materials* — (Optional) — Nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
PLITEQ INC — Type GenieMat FF10

Floor Mat Materials* — (Optional) — Nom 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
PLITEQ INC — Type GenieMat FF17

Feedback

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Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 23

Subflooring — Min 15/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Face grain of plywood or strength axis of panels to be perpendicular to the joists with joints staggered.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
GRASSWORX L L C — SC Types

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOQ) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 24

Subflooring — Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Wood structural panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Screws may be substituted for nails, one for one, when the head diameter, length, and spacing equal or exceed the requirements for the specified nails.

Finish Floor - Building Units* — Min 1/2 in. thick magnesium oxide panels installed parallel, perpendicular, or diagonally to trusses with panel edges offset a min of 4 in. between subfloor and magnesium oxide panels. Panels secured to subfloor with construction adhesive and corrosion resistant fasteners, spaced max 12 in. OC around the perimeter and in the field of the panel. Fasteners must be placed no closer than 1/2 in. from all panel edges and no closer than 2 in. from panel corners. Screws may be substituted for nails, one for one, when the head diameter, length, and spacing equal or exceed the requirements for the specified nails.

HUBER ENGINEERED WOODS L L C — Type 1/2 in. Square Edge Exaco® Board

System No. 25

Building Units* — Nom 3/4 in. thick. Long dimension of panels to be perpendicular to trusses with end joints staggered a min of 4 ft. and joints centered over the joists. Panels secured to wood joists with 2 in. x 0.113 in. Ring Shank nails spaced a max of 12 in. OC in the field and on the perimeter. Fasteners must be placed no closer than 1/2 in. from all panel edges and no closer than 2 in. from panel corners. Screws may be substituted for nails, one for one, when the head diameter, length, and spacing equal or exceed the requirements for the specified nails. When used, **Batts and Blankets**, Item 5C are required and Gypsum Wallboard® thickness increased to 5/8 in. with gypsum board fasteners increased in length by 1/8 in. from that specified for 1/2 in. thick gypsum board.

HUBER ENGINEERED WOODS L L C — Type 3/4 in. Tongue and Groove Exaco® Board

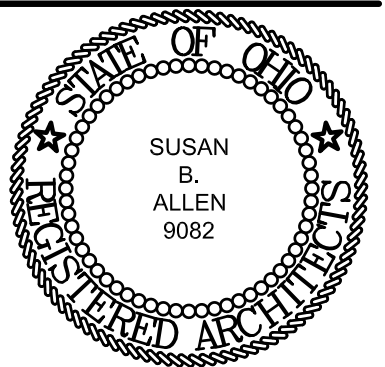
2. Wood Joists — Min 2 by 10, spaced 16 in. OC and effectively fireblocked in accordance with local codes.

3. Cross Bridging — Min 1 by 3 in. or min 2 by 10 solid blocking.

3A. Horizontal Bridging — Used in lieu of Item 3 in same joist bay as ceiling damper (Item 4), when ceiling damper is employed. Wood 2 by 4 in. secured between joists with nails.

Feedback

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SUSAN B. ALLEN License #9082 Expiration Date 12/31/2023

REVISIONS

Feedback

UL ASSEMBLIES GERMANTOWN CROSSING DAYTON OHIO



430 GRANT STREET AKRON, OH 44311 PHONE: (330) 867-1093 www.tcarchitects.com

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03/31/2023

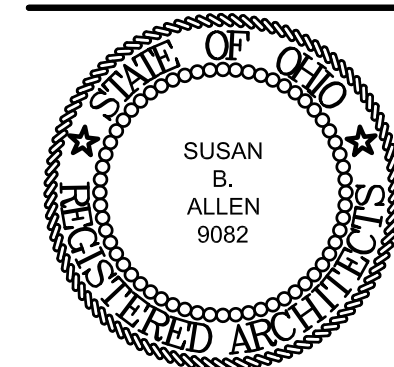
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82A21

PROJECT NUMBER

A609

DRAWING NUMBER



SUSAN B. ALLEN 9082
Expiration Date 12/31/2023

REVISIONS

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PROJECT NUMBER

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DRAWING NUMBER

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000-55

6F. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6. Main runners nom 12 ft long, spaced 72 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

6G. **Resilient Channels** — (Not Shown) - As an alternate to Item 6. Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 12 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with 1-1/4 in. Type 5 screws. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 7B or 7C).

6H. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in OC, perpendicular to joists. Channels secured to joists as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced 48 in. OC, and secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

6I. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-5/8 in. wide by 7/8 in. deep, spaced 24 in OC, perpendicular to joists. Channels secured to joists as described in Item 6.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced at 48 in. OC and secured to the bottom of the joists with one 2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
STUOCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6J. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6 Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
USG INTERIORS LLC — Type DGL or RX

6K. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6 Main runners nom 12 ft long, spaced 48 in. OC. Cross tees, nom 4 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 4 ft. long cross tees required at 6 in. from each side of butted gypsum board end joints. When **Batts and Blankets*** (Item 5B) are used, cross tees spaced 16 in. OC with additional cross tees 8 in. away from each side of butted gypsum board end joints. The cross tees shall be riveted with 1/8 in. dia. rivets to the wall angle and to the main tee where the cross tee does not align with slot in the main tee. Galvanized steel wall angle with 1-1/2 in. legs attached to walls at perimeter of ceiling with fasteners at 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum board.
CERTAINTED CORP — Types DWS12-13-20, DWS4-16-13-20, DWS4-13-20, DWS2-13-20, DWS2-16-13-20 and DWA1-5-15
CERTAINTED CORP — Types EZZDWS12-13-18, EZZDWS4-16-13-18, EZZDWS4-13-18, EZZDWS2-13-18, EZZDWS2-16-13-18 and DWA1-5-15

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gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.

When alternate **Steel Framing Members*** (Item 6I or 6J) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6M) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type 5 bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional angle length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one joist beyond the width of the gypsum panel and be attached to the adjacent joists with one SonusClip at every joist involved with the butt joint.

When **Steel Framing Members** (Item 6N) are used, one layer of nom 1/2 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 6O) are used, one layer of nom 1/2 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Butt joints staggered minimum 24 in. OC.

AMERICAN GYPSUM CO — Type AG-C

CABOT MANUFACTURING ULC — Type C

CERTAINTED GYPSUM INC — Type C, Type LGFC-C/A

CGC INC — Types C, IP-X2, IPC-AR, WRC

CERTAINTED GYPSUM INC —

GEORGIA-PACIFIC GYPSUM L L C — Types S, C, GPFS1, DAP, DA, DAPC, TG-C

NATIONAL GYPSUM CO — Types eXP-C, FSX-C, PSW-C

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-1, PG-3, PG-C

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE CV — Types C, IP-X2, IPC-AR, WRC

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perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Oa) to joists. Clips spaced 48 in. OC and secured along joint webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSK-51-1 Ultra

6P. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints, as described in Item 7. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used.
PAC INTERNATIONAL L L C — Types RC-1 Boast

7. **Gypsum Board*** — Nom 1/2 in. thick, 4 ft wide gypsum board. When resilient channels (Item 6) are used, gypsum board installed with long dimension perpendicular to resilient channels and side joints of sheet located between joists. Nom 1 in. long No. 6 Type 5 bugle head screws are driven through channel spaced 12 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 1/2 in. from end joints.
When **Steel Framing Members*** (Item 6A, 6B, 6C) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Gypsum board secured to cross tees with 1 in. long No. 6 Type 5 bugle head screws spaced 12 in. OC in the field and 8 in OC along end joints. Adjacent gypsum board sheets held to the end joint furring channel by means of one 1 in. long No. 6 Type 5 bugle head screw on each side of the end joints. All edge screws located 3/8 to 1/2 in. min. distance from edges of gypsum board sheets to main runners with 1 in. long No. 6 Type 5 bugle head screws spaced 16 in. OC, midway between cross tees. Screws along sides and ends of boards spaced 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

When **Steel Framing Members*** (Item 6D, 6H) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to furring channels and side joints of sheet located beneath joists. Nom 1 in. long No. 6 Type 5 bugle head screws are driven through channel spaced 12 in. OC in the field. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the joist with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Joint treatment not required for this rating, except for tapered, rounded-edge gypsum board where edge joints are covered with paper tape and joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

When alternate **Steel Framing Members*** (Item 6E) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When alternate **Steel Framing Members*** (Item 6F) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6I) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type 5 bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the

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located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven into the side of joists at least 5 in. above the joist bottom face.
ROXUL USA INC. D/B/A ROCKFON — Types 650, 650C, 670, 670C

6B. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, main runners nom 12 ft long, spaced 48 in. OC. Ends of main runners at walls to rest on wall angle, without attachment, with 1/2 to 3/4 in. end clearance. Primary cross tees (1-1/2 in. wide across flange) or cross channels, nom 4 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional primary cross tees or cross channels required at each gypsum board end joint and 8 in. from and on each side of gypsum board end joint.
ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000

6C. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, main runners, cross tees, cross channels and wall angle as listed below:
a. **Main Runners** — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be located adjacent to main runner/cross tee intersections. Hanger wires wrapped and twist-tied on 16d nails driven in to the side of joists at least 5 in. above the bottom face.

b. **Cross Tees** — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. When **Batts and Blankets*** (Item 5) are used, cross tees spaced 16 in. OC. Additional cross tees or cross channels used at 8 in. from each side of butted gypsum board end joints. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

c. **Cross Channels** — Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC. When **Batts and Blankets*** (Item 5) are used, cross channels spaced 16 in. OC.

d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum board.
CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

6D. **Steel Framing Members*** — (Not Shown) As an alternate to Item 6, furring channels and **Steel Framing Members** as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in wide by 7/8 in. deep, spaced 24 in. OC perpendicular to joists. Channels secured to joists as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to joists (Item 2). Clips spaced 48 in. OC, and secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (Z75) clip for use with 2-23/32 in. wide furring channels. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PAC INTERNATIONAL L L C — Types RSK-C1, RSK-1 (Z75)

6E. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6. For use in corridors or rooms having a maximum width dimension of 14 ft. Steel framing members consist of grid runners, locking angle wall molding and hanger bars. Locking angle wall molding secured to walls with steel nails or screws spaced max 24 in. OC. Slots of locking angle wall molding parallel with hanger bars to be aligned with tabbed cutouts in bottom edge of hanger bars. Hanger bars spaced max 50 in. OC and suspended with No. 12 AWG steel hanger wires spaced max 48 in. OC. Adjoining lengths of hanger bar to overlap 12 in. and to be secured together and suspended by a shared hanger wire. A min clearance of 1/4 in. shall be maintained between the ends of the hanger bars and the wall. Grid runners cut-to-length and installed perpendicular to hanger bars and spaced max 24 in. OC with additional grid runners installed 8 in. OC at gypsum board end joints. Grid runners parallel with walls to be spaced max 16 in. from wall. Ends of grid runners to rest on and engage slots of locking angle wall molding with a clearance of 3/8 in. to 1/2 in. maintained between each end of the grid runner and the wall. Bulb of grid runner to be captured by tabbed cutouts in bottom edge of hanger bars.

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perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Oa) to joists. Clips spaced 48 in. OC and secured along joint webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSK-51-1 Ultra

6P. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints, as described in Item 7. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used.
PAC INTERNATIONAL L L C — Types RC-1 Boast

7. **Gypsum Board*** — Nom 1/2 in. thick, 4 ft wide gypsum board. When resilient channels (Item 6) are used, gypsum board installed with long dimension perpendicular to resilient channels and side joints of sheet located between joists. Nom 1 in. long No. 6 Type 5 bugle head screws are driven through channel spaced 12 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 1/2 in. from end joints.
When **Steel Framing Members*** (Item 6A, 6B, 6C) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Gypsum board secured to cross tees with 1 in. long No. 6 Type 5 bugle head screws spaced 12 in. OC in the field and 8 in OC along end joints. Adjacent gypsum board sheets held to the end joint furring channel by means of one 1 in. long No. 6 Type 5 bugle head screw on each side of the end joints. All edge screws located 3/8 to 1/2 in. min. distance from edges of gypsum board sheets to main runners with 1 in. long No. 6 Type 5 bugle head screws spaced 16 in. OC, midway between cross tees. Screws along sides and ends of boards spaced 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC.

When **Steel Framing Members*** (Item 6D, 6H) are used, nom 1/2 in. thick, 4 ft wide gypsum board installed with long dimension perpendicular to furring channels and side joints of sheet located beneath joists. Nom 1 in. long No. 6 Type 5 bugle head screws are driven through channel spaced 12 in. OC in the field. Gypsum board butt joints shall be staggered min. 2 ft within the assembly, and occur between the main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. The two furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to the joist with one clip at each end of the channel. Screw spacing along the butt joint to attach the gypsum board to the furring channels shall be 8 in. OC. Joint treatment not required for this rating, except for tapered, rounded-edge gypsum board where edge joints are covered with paper tape and joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.

When alternate **Steel Framing Members*** (Item 6E) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the grid runners with the end joints staggered min 4 ft and centered between grid runners which are spaced 8 in. OC. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide by 48 in. long pieces of gypsum board are to be laid atop the grid runner flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the grid runners at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to grid runners with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When alternate **Steel Framing Members*** (Item 6F) are used, nom 1/2 in. thick, 4 ft wide gypsum board sheets installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip to prevent the backer strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

When **Steel Framing Members** (Item 6I) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type 5 bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the

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4. **Ceiling Damper*** — (Optional) — Max nom area shall be 198 sq in. Max rectangular size shall be 12 in. wide by 16-1/2 in. long. Max height of damper shall be 8-3/4 in. Aggregate damper openings shall not exceed 99 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. A steel grille (Item 9) shall be installed in accordance with installation instructions.
AIR BALANCE INC — Type 299 (See Item 7D)

AIR KING VENTILATION PRODUCTS — Series FRAS, Series FRAK, Series FRAK

CENTRAL VENTILATION SYSTEMS CO L L C — Models C-S/R-HC(A), C-RD-HC(A); Models CD-S/R-HC, CD-RD-HC

GREENHECK FAN CORP — Model CRD-1WJ

METAL-FAB INC — Models MSCDHC, MRCDHC

METAL INDUSTRIES INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

NCA MFG INC — Models CD-S/R-HC, CD-S/R-HC-A, CD-RD-HC, CD-RD-HC-A

BRISK MFG INC — Model BMI-50-CRD-S/R-WT

PRICE INDUSTRIES LTD

RUSKIN COMPANY — Model CFD7

UNITED ENERTECH CORP — Models C-S/R-HC(A), C-RD-HC(A)

5. **Batts and Blankets*** — (Optional, Not Shown) — For use with **Steel Framing Members*** (Items 6C and 6G only) and **Gypsum Board*** (Items 7A and 7B). Any thickness mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread index of 25 or less and a smoke developed index of 50 or less. Insulation fitted in the concealed space, draped over the steel framing members/gypsum board ceiling membrane.

5A. **Batts and Blankets*** — For use with Items 6G and 7C only - Glass fiber insulation draped over the resilient channel/gypsum panel ceiling membrane. Max. 3-1/2 in. thickness of glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance having a min. density of 0.5 pcf.

5B. **Batts and Blankets*** — For use with **Steel Framing Members*** (Item 6I) and **Gypsum Board*** (Item 7E) - Min. 3-1/2 in. thick, min. density 0.9 lb/ft³ unfaced fiberglass batt insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over steel framing members/gypsum board ceiling membrane and light fixture protection.

5C. **Batts and Blankets*** — Specified for use with **System No. 25**, 3-1/2 in. thick, min 0.62 pcf glass fiber batt insulation draped over the resilient channel. Any glass fiber batt insulation bearing the UL Classification Marking for Surface Burning Characteristics or fire Resistance may be used. See **Batts and Blankets*** (BKVN or BZZJ) category in the Fire Resistance Directory for names of manufacturers.

6. **Resilient Channels** — Resilient channels, formed from No. 25 MSG galv steel and shaped as shown, spaced 24 in. OC perpendicular to joist. Channels overlapped 4 in. at splices and secured to each joist with one 6d common nail. Min end clearance of channels to wall to be 1/2 in. Additional resilient channels positioned so as to coincide with end joints of gypsum board (Item 7). Additional channels shall extend min 6 in. beyond each side edge of board.

6A. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, main runners nom 12 ft long spaced 48 in. OC. Cross tees nom 4 ft long installed perpendicular to main runners and spaced 16 in. OC. Additional cross tees located 8 in. from and on each side of gypsum board end joints. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Hanger wires to be

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6L. **Framing Members*** — (Not Shown) — As an alternate to Item 6. Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
ROXUL USA INC. D/B/A ROCKFON — Type 670C

6M. **Steel Framing Members*** — (Not Shown) — As an alternate to Item 6, furring channels and Steel Framing Members as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-1/2 in. wide by 7/8 in. deep, spaced 24 in OC, perpendicular to joists. Channels secured to joists as described in Item 6.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to the wood joists (Item 2). Clips spaced at 48 in. OC and secured to the bottom of the joists with one 2-1/2 in. Coarse Drywall Screw with 1 in. diam washer through the center hole. Furring channels are then friction fitted into clips. Ends of channels are overlapped 6" and tied together with double strand of No. 18 AWG galvanized steel wire. Additional clips are required to hold the Gypsum Butt joints as described in Item 7.
REGUPOL AMERICA — Type SonusClip

6N. **Steel Framing Members*** — (Not Shown) As an alternate to Item 6, furring channels and **Steel Framing Members** as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel, 2-23/32 in wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to joists. Channels secured to joists as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap.

b. **Steel Framing Members*** — Used to attach furring channels (Item a) to Joists (Item 2). Clips spaced 48 in. OC, and secured to alternating joists with No. 8 x 2-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

6N. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 24 in. OC, perpendicular to the joists. Channels secured to Cold Rolled Channels at every intersection with a 3/4 in. TEK screw through each furring channel leg. Ends of adjoining channels overlapped 12 in. and fastened together with two double strand No. 18 SWG galv steel wire ties, one at each end of overlap, or with two 3/4 in. TEK screws in each leg of the overlap section. Two furring channels positioned 3 in. OC, 1-1/2 in. on each side of gypsum board (Item 7) end joints, each extending a min of 6 in. beyond both side edges of the board.

b. **Cold Rolled Channels** — 1-1/2 in. by 1/2 in., formed from No. 16 ga. galv steel, positioned vertically and parallel to joists, friction-fitted into the channel cavity on the Steel Framing Members (Item 6Nc) and secured with two 3/4 in. TEK screws. Adjoining lengths of cold rolled channels lapped min. 12 in. and secured along bottom legs with four 3/4 in. TEK screws and wire-tied together with two double strand 18 SWG galv steel wire ties, one at each end of overlap.

c. **Steel Framing Members*** — Spaced 48 in. OC, max along joist, and secured to the joist on alternating joists with two, #10 x 1-1/2 in. screws through mounting holes on the hanger bracket.
PAC INTERNATIONAL L L C — Type RSK-SI-CRC EZ Clip

6O. **Steel Framing Members*** — (Optional, Not Shown) — As an alternate to Item 6.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, nominal 2-1/2 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to joists and friction fit into Steel Framing Members (Item 6Ob). Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap or with two TEK screws along each leg of the 6 in. overlap. Two furring channels positioned 6 in. OC, 3 in. on each side of gypsum board (Item 7) end joints. Butt joint channels held in place by strong back channels placed upside down, on top of, and running perpendicular to primary furring channels, extending 6 in. longer than length of gypsum side joint. Strong back channels spaced maximum 48 in. OC. Strong back channels secured to every intersection of primary furring channels with four 7/16 in. pan head screws, two along each of the legs at intersections. Butt joint channels run

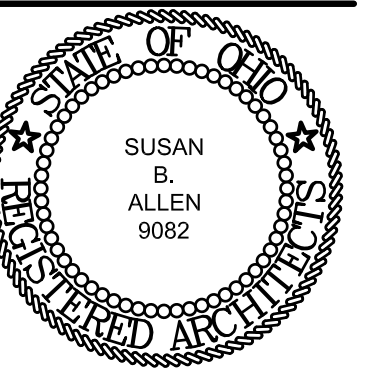
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perpendicular to strong back channels and shall be minimum 6 in. longer than length of joint, secured to strong back channels with 7/16 in. pan head screws, two along each of the legs at intersection with strong back channels.

b. **Steel Framing Members*** — Used to attach furring channels (Item 6Oa) to joists. Clips spaced 48 in. OC and secured along joint webs at each furring channel intersection with min. 3/4 in. long self-drilling #10 x 1-1/2 in. screws through each of the provided hole locations. Furring channels are friction fitted into clips.
PAC INTERNATIONAL L L C — Type RSK-51-1 Ultra

6P. **Steel Framing Members*** — (Optional, Not Shown) — Used as an alternate method to attach resilient channels to structural members. A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the structural members and attached with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints, as described in Item 7. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the structural members with the screws supplied with the accessory and per the accessory manufacturer's installation instructions. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used.
PAC INTERNATIONAL L L C — Types RC-1 Boast

7. **Gypsum Board*** — Nom 1/2 in. thick,



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Expiration Date 12/31/2023

REVISIONS

NO.	DATE	DESCRIPTION

UL ASSEMBLIES

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
www.tcarchitects.com

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03/31/2023

DATE

82A21

PROJECT NUMBER

A613

DRAWING NUMBER

supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When **Steel Framing Members** (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with a RESILMOUNT Sound Isolation Clip at each end of the channel.

When **Steel Framing Members** (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one **SoundClip** at every truss involved with the butt joint.

When **Steel Framing Members** (Item 6G) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Adjacent butt joints staggered minimum 48 in. OC.

When **Steel Framing Members** (Item 6H) are used, nom 5/8 in. thick, 4 ft wide gypsum board, installed as described in Item 7. Butt joints staggered minimum 24 in. OC.

CGC INC — Types C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

7A. Gypsum Board* - (Not Shown) — For use with Items 5B and 6E. Nom 5/8 in. thick, 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 8 in. OC and located a min of 1/2 in. from side joints and 3 in. from the end joints. Finish Rating with this ceiling system is 20 min.

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Type ULIX

8. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

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

Last Updated on 2023-03-03

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FINISH SCHEDULE - UNITS

ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
1 BEDROOM - STANDARD UNIT										
A01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A02	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
A03	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A04	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A05	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A06	BEDROOM	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A07	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
A07A	UTILITY	LVP-1	RB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
A08	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
1 BEDROOM - MOBILITY UNIT										
B01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B03	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
B04	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B05	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B06	BEDROOM	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B07	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B07A	UTILITY	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
B08	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
B09	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
2 BEDROOM - STANDARD UNIT / SENSORY UNIT										
C01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C02	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C03	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C04	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
C05	BEDROOM #1	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C06	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C07	BEDROOM #2	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C08	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C09	HALLWAY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C10	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C11	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C12	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
2 BEDROOM - MOBILITY UNIT										
D01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D02	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D03	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D04	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
D05	BEDROOM #1	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D06	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D07	BEDROOM #2	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D08	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D09	HALLWAY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D10	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D11	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D12	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
3 BEDROOM - STANDARD UNIT										
F01	ENTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F02	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F03	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F04	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
F05	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F06	BEDROOM #3	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F07	LIVING	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F08	UTILITY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F09	HALLWAY A	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F10	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F11	BEDROOM #1	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F12	KITCHEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
F13	HALLWAY B	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F14	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
F15	LINEN	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
F16	CLOSET	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F17	BEDROOM #2	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
3 BEDROOM - MOBILITY UNIT										
G01	ENTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G02	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G03	STORAGE	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G04	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G04A	LINEN	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
G05	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G06	BEDROOM #3	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G07	LIVING	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G08	UTILITY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G09	HALLWAY A	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G10	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--

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FINISH SCHEDULE - UNITS

ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
3 BEDROOM - MOBILITY UNIT										
G11	BEDROOM #1	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G12	KITCHEN	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	SS-1	--
G13	HALLWAY B	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G14	BATHROOM	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G15	UTILITY	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
G16	LINEN	CT-1	CB-1	P-8	P-8	P-8	P-8	GYP BD.	--	--
G17	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G18	BEDROOM #2	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--

FINISH SCHEDULE - COMMON AREAS

ROOM NO.	ROOM NAME	FLOORING	BASE	WALL FINISHES				CEILING	COUNTERTOP	REMARKS:
				NORTH	EAST	SOUTH	WEST			
FIRST FLOOR COMMON AREAS										
C101	TRASH	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C102	TRASH COMPACTOR	SC-1	RB-2	P-4	P-4	P-	P-4	GYP BD.	--	--
C103	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C103A	CORRIDOR	CT-2 / WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C103B	VESTIBULE	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C104	MAIL	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C105	ELEV. MECH	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C106	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C107	TOILET	CT-2	CB-1	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	GYP BD.	CM-1	--
C108	TOILET	CT-2	CB-1	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	P-7 / WT-1 & 2	GYP BD.	CM-1	--
C109	COMMUNITY ROOM	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C110	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C111	KITCHEN	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C111A	PANTRY	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C112	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C113	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C114	LOBBY	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C115	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C116	OFFICE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C117	STORAGE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C118	CONFERENCE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C119	STORAGE	LVP-3	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C120	VESTIBULE	WOC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C121	WAITING	CT-3	CB-1	P-4	P-4	P-5	P-4	GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C122	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C123	TRASH	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C124	MECH / MAINTANCE	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C125	MECH	SC-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
SECOND FLOOR COMMON AREAS										
C201	TRASH	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C202	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C203	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C204	LAUNDRY	CT-2	CB-1	P-4	P-4	P-4	P-4	GYP BD.	SS-2	--
C205	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C206	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C207	COMPUTERS	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	SS-3	--
C208	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C209	TRASH	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
THIRD FLOOR COMMON AREAS										
C301	TRASH	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C302	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C303	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C304	FITNESS	LVP-2	RB-2							

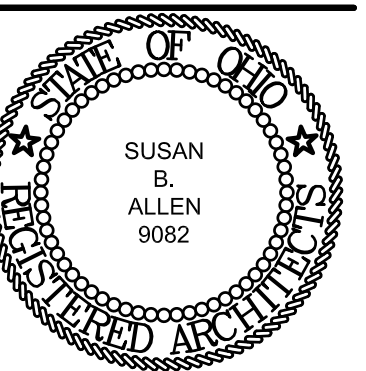
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FINISH LEGEND

MARK	DESCRIPTION	MANUFACTURER	MODEL/COLOR	REMARKS
FLOORING				
LVP-1	LUXURY VINYL PLANK	PATCRAFT TIMBER GROVE II 6" X 48"	20 MIL. WEAR LAYER, COLOR / PATTERN TBD	UNITS (EXCLUDING MU UNITS)
LVP-2	LUXURY VINYL PLANK	PATCRAFT TIMBER GROVE II 6" X 48"	30 MIL. WEAR LAYER, COLOR / PATTERN TBD	COMMON AREAS
LVP-3	LUXURY VINYL PLANK	PATCRAFT TIMBER GROVE II 6" X 48"	30 MIL. WEAR LAYER, COLOR / PATTERN TBD	OFFICES / CONF.
LVP-4	LUXURY VINYL PLANK	PATCRAFT TIMBER GROVE II 6" X 48"	30 MIL. WEAR LAYER, COLOR / PATTERN TBD	MU UNITS
WOC-1	WALK-OFF CARPET	PATCRAFT WALK FORWARD 24" X 24"	PATTERN: ACCESS, COLOR : TBD	VESTIBULE, LOBBY
CT-1	CERAMIC TILE C12 x 24 WITH EPOXY GROUT	THOMAS BRICK	TBD	UNIT BATHROOMS
CT-2	CERAMIC TILE C12 x 24 WITH EPOXY GROUT	THOMAS BRICK	TBD	COMMON TOILET ROOMS, LAUNDRY
SC-1	SEALED CONCRETE	--	--	--
FLOORING BASE				
RB-1	4" COVE	--	--	UNITS
RB-2	4" COVE	--	--	COMMON AREAS
CB-1	FLOOR - WALL COVE PROFILE	SCHLUTER COVE BASE	4.15 DILEK-EHK / EB BRUSHED STAINLESS STEEL	--
STAIR TREAD				
RBST-1	RUBBER STAIR TREAD	--	--	--
WALLS				
P-1	PAINT	SHERWIN WILLIAMS	TBD	UNIT WALLS
P-2	PAINT	SHERWIN WILLIAMS	TBD	UNIT TRIM & DOORS
P-3	PAINT	SHERWIN WILLIAMS	TBD	SEE FINISH NOTE 2.
P-4	PAINT	SHERWIN WILLIAMS	TBD	COMMON AREAS
P-5	PAINT	SHERWIN WILLIAMS	TBD	WAITING ACCENT
P-6	PAINT	SHERWIN WILLIAMS	TBD	UNIT ENTRY DOOR FRAMES
P-7	PAINT	SHERWIN WILLIAMS	TBD	EPOXY PAINT - TOILET ROOMS
P-8	PAINT	SHERWIN WILLIAMS	TBD	EPOXY PAINT - UNIT TOILET ROOMS
P-9	PAINT	SHERWIN WILLIAMS	TBD	CEILINGS / SOFFITS
P-10	PAINT	SHERWIN WILLIAMS	TBD	UNIT ENTRY DOOR FRAMES
P-11	PAINT	SHERWIN WILLIAMS	TBD	FIRST FLOOR UNIT ENTRY DOORS
P-12	PAINT	SHERWIN WILLIAMS	TBD	SECOND FLOOR UNIT ENTRY DOORS
P-13	PAINT	SHERWIN WILLIAMS	TBD	UNIT ENTRY DOORS
P-14	PAINT	SHERWIN WILLIAMS	TBD	FIRST FLOOR ACCENT PAINT
P-15	PAINT	SHERWIN WILLIAMS	TBD	SECOND FLOOR ACCENT PAINT
P-16	PAINT	SHERWIN WILLIAMS	TBD	THIRD FLOOR ACCENT PAINT
P-17	PAINT	SHERWIN WILLIAMS	TBD	LOW WALL / COLUMNS
WT-1	12 X 24 CERAMIC WALL TILE	THOMAS BRICK	TBD	--
WT-2	1 X 6 CERAMIC WALL TILE MOSAIC	THOMAS BRICK	TBD	--
PLASTIC LAMINATE				
SS-1	SOLID SURFACE	QUANTRA	TBD	UNIT KITCHEN COUNTER
SS-2	SOLID SURFACE	QUANTRA	TBD	LAUNDRY
SS-3	SOLID SURFACE	QUANTRA	TBD	MAIL / COMPUTERS
PL-1	PLASTIC LAMINATE	WILSONART	TBD	UNIT GREASE SHIELD
CULTURED MARBLE				
CM-1	CULTURED MARBLE	--	--	BATHROOM VANITY COUNTERTOP/SINK
BLINDS				
B-1	1" VINYL BLINDS	--	--	--
CEILINGS				
ACT-1	2 X 2 ACT	--	--	--

FINISH NOTES:

1. ALL FINISHES TO BE REVIEWED AND APPROVED BY ARCHITECT AND OWNER PRIOR TO INSTALLATION.
2. ALL HANDRAILS, GUARDRAILS, AND EXPOSED STRINGERS ARE TO BE PAINTED P-3
3. HOLLOW METAL DOORS, FRAMES AND WINDOW FRAMES ARE TO BE PAINTED TO MATCH THE ADJACENT WALL UNLESS OTHERWISE NOTED.
4. ALL GYP. BD. CEILINGS ARE TO BE PAINTED P-9
5. ALL GYP. BD. SOFFITS ARE TO BE PAINTED THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED.
6. ALL CORRIDOR SURFACES OF THE ENTRY UNIT DOORS ARE TO BE PAINTED P-11 ON THE FIRST FLOOR, P-12 ON THE SECOND FLOOR, AND P-13 ON THE THIRD FLOOR.
7. ALL CORRIDOR SURFACES OF THE UNIT ENTRY DOOR FRAMES ARE TO BE PAINTED P-6.
8. THE INTERIOR FACE OF THE UNIT DOOR ENTRY DOOR AND FRAME ARE TO BE PAINTED P-2.
9. FOR FLOOR TRANSITION STRIP INFORMATION, SEE A703.
10. SIGHT AND HEARING UNIT IS TO HAVE CONTRASTING COLOR COUNTERS AND DOOR TRIM. COLORS TO BE SELECTED.
11. LOW WALL / INTERIOR COLUMNS IN WAITING AREA TO BE PAINTED P-17.



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REVISIONS

FINISH LEGEND

GERMANTOWN CROSSING

DAYTON OHIO



ARCHITECTS

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**TURNING VISIONS
INTO REALITY**

03/31/2023

DATE

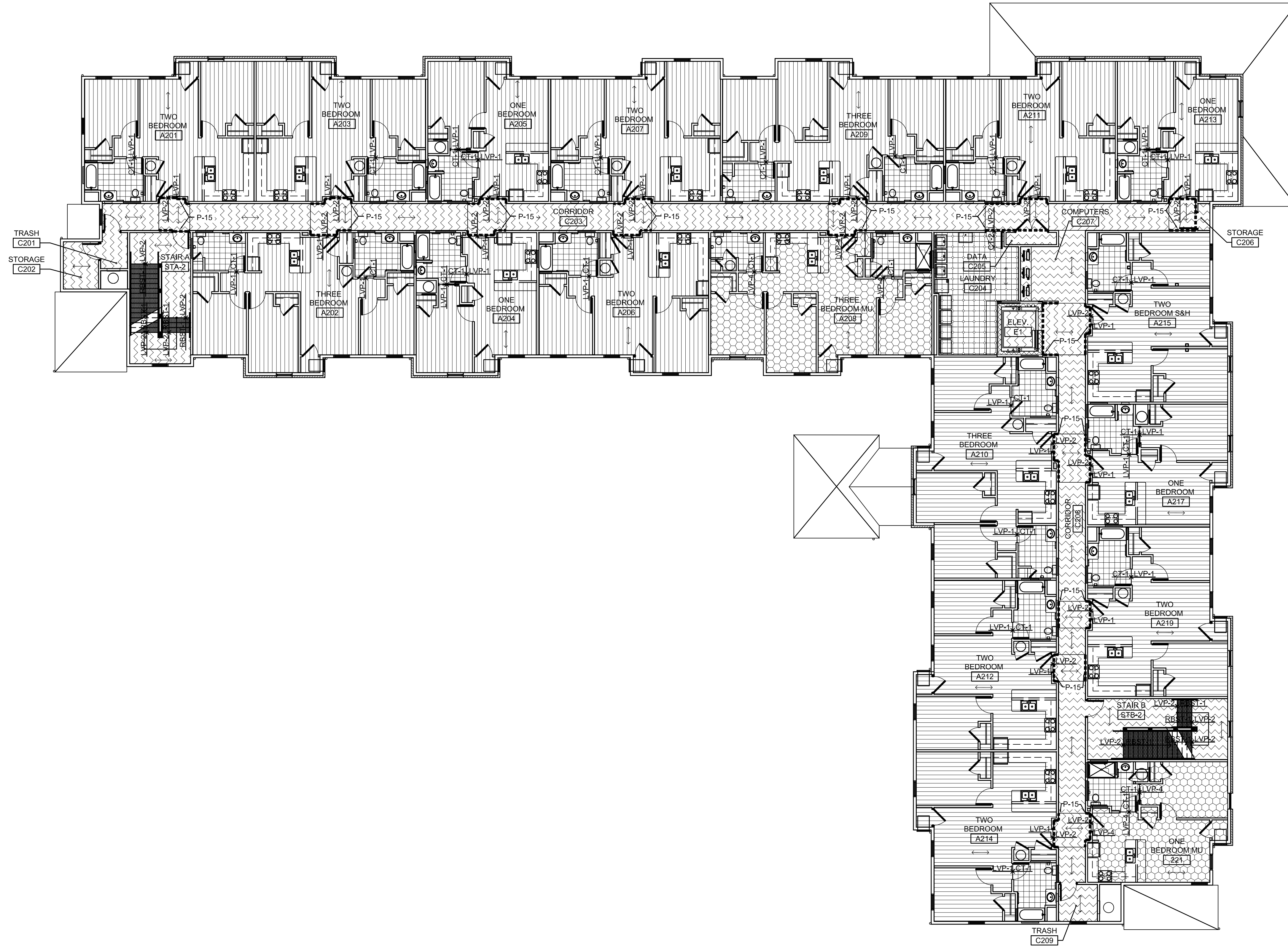
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PROJECT NUMBER




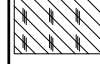


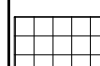

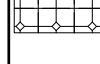

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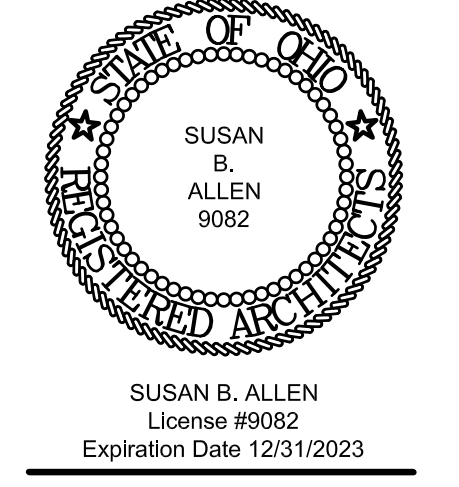
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LEGEND

-  LUXURY VINYL PLANK - 1 (LVP-1)
-  LUXURY VINYL PLANK - 2 (LVP-2)
-  LUXURY VINYL PLANK - 3 (LVP-3)
-  LUXURY VINYL PLANK - 4 (LVP-4)
-  WALK-OFF CARPET (WOC-1)
-  CERAMIC TILE - 1 (CT-1)
-  CERAMIC TILE - 2 (CT-2)
-  SEALED CONCRETE (SC-1)
-  RUBBER STAIR TREAD (RBST-1)
-  P-14 ACCENT PAINT

NOTE: SEE A701 FOR FINISH SCHEDULE



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REVISIONS

NO.	DESCRIPTION

SECOND FLOOR FINISH PLAN
GERMANTOWN CROSSING
DAYTON OHIO




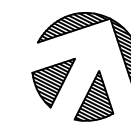
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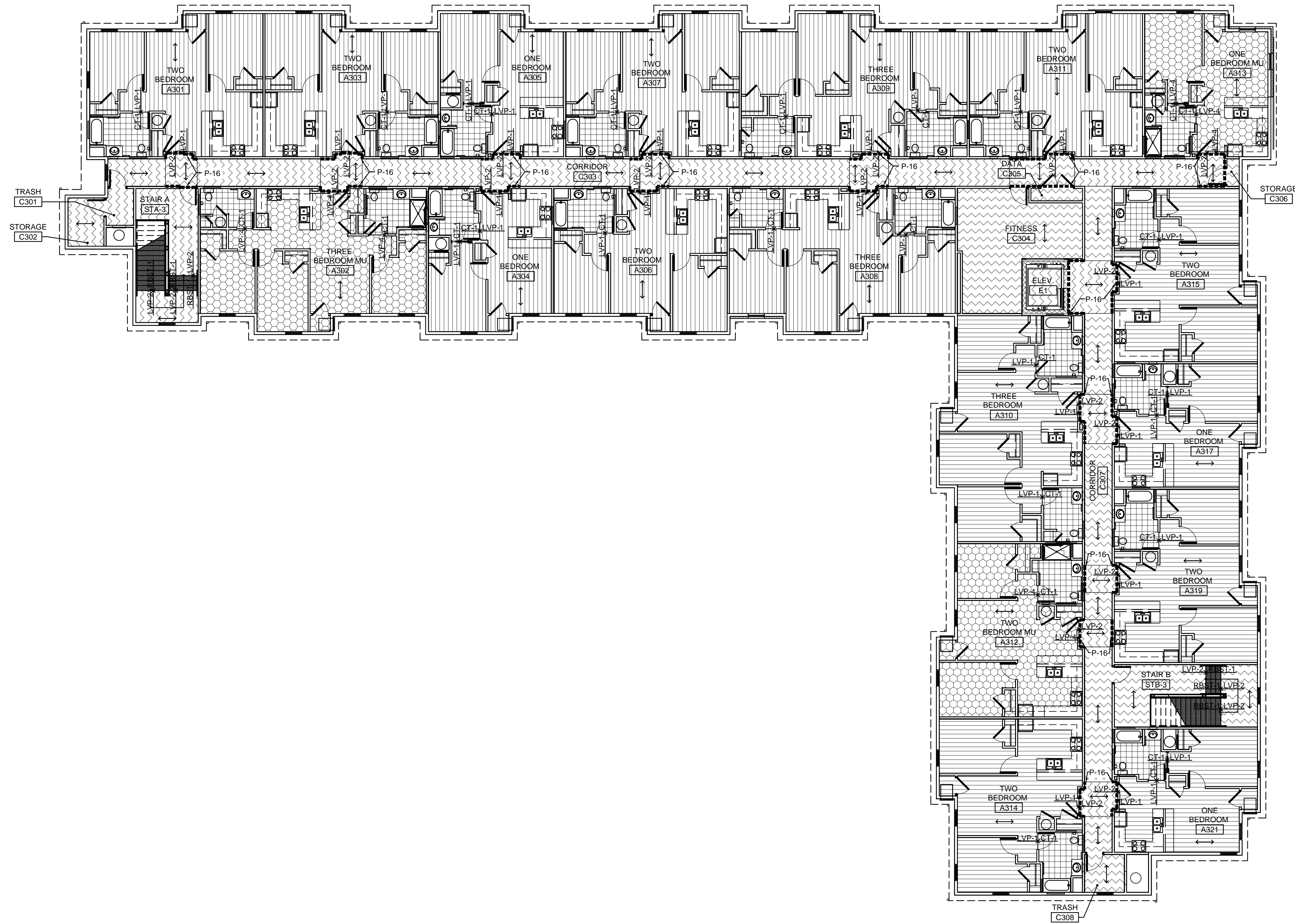
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DATE
82A21
PROJECT NUMBER

A704
DRAWING NUMBER

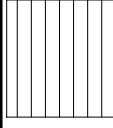

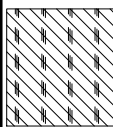
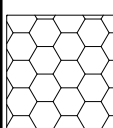
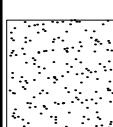
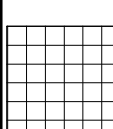
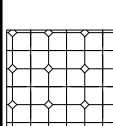

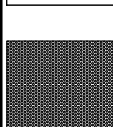

1
A704 SECOND FLOOR FINISH PLAN
SCALE: 3/32" = 1'-0" 17,777 SF

 
PLAN NORTH ACTUAL

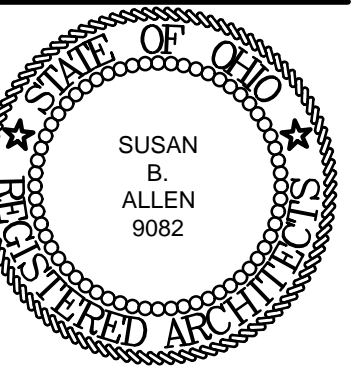
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LEGEND

-  LUXURY VINYL PLANK - 1 (LVP-1)
-  LUXURY VINYL PLANK - 2 (LVP-2)
-  LUXURY VINYL PLANK - 3 (LVP-3)
-  LUXURY VINYL PLANK - 4 (LVP-4)
-  WALK-OFF CARPET (WOC-1)
-  CERAMIC TILE - 1 (CT-1)
-  CERAMIC TILE - 2 (CT-2)
-  SEALED CONCRETE (SC-1)
-  RUBBER STAIR TREAD (RBST-1)
-  P-14 ACCENT PAINT

NOTE: SEE A701 FOR FINISH SCHEDULE



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REVISIONS

NO.	DESCRIPTION

THIRD FLOOR FINISH PLAN
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03/31/2023
DATE

82A21
PROJECT NUMBER

A705
DRAWING NUMBER

1
A705 **THIRD FLOOR FINISH PLAN**
SCALE: 3/32" = 1'-0" 17,777 SF

 
PLAN NORTH ACTUAL

SPECIAL INSPECTIONS

1. SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION SHALL BE PAID BY OWNER.

REQUIRED SPECIAL INSPECTIONS

1. IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION ACCORDANCE WITH THE BUILDING CODE.

A. STRUCTURAL STEEL ELEMENTS OF BUILDINGS AND STRUCTURES AS REQUIRED BY OBC SECTION 1704.2 AND TABLE 1704.3, EXCEPT AS ALLOWED IN OBC SECTION 1740.3.

B. CONCRETE CONSTRUCTION AS REQUIRED BY OBC SECTION 1704.4 AND TABLE 1740.4, EXCEPT AS ALLOWED IN OBC SECTION 1704.4.

C. MASONRY CONSTRUCTION AS REQUIRED BY OBC SECTION 1704.5 AND TABLE 1704.5.1, LEVEL 1 SPECIAL INSPECTION, EXCEPT ALLOWED IN OBC SECTION 1740.5.

D. SPECIAL INSPECTION FOR EXISTING SITE SOIL CONDITIONS, DURING SITE PREPARATION AND FILL PLACEMENT, TO ENSURE LOAD-BEARING REQUIREMENTS IN COMPLIANCE WITH OBC SECTION 1740.7 EXCEPT AS ALLOWED IN OBC SECTION 1740.7.

E. SPRAYED FIRE-RESISTANT MATERIALS AS REQUIRED BY SECTION 1704.12.

F. EFIS SYSTEM AS PER SECTION 1704.14.

G. SPECIAL CASES AS DEEMED NECESSARY BY BUILDING OFFICIAL IN COMPLIANCE WITH OBC SECTION 1704.15.

2. SPECIAL INSPECTOR SHALL MEET THE QUALIFICATIONS AS STATED IN THE BUILDING CODE AND SHALL PERFORM THE DUTIES AND RESPONSIBILITIES AS OUTLINED UN THE BUILDING CODE.

3. SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF OBC SECTION 1704. SPECIAL INSPECTOR(S) SHALL BE HIRED BY THE OWNER TO PERFORM THE REQUIRED SPECIAL INSPECTIONS, THE NAMES OF PERSONS OR FIRMS WHO ARE TO PERFORM THE SPECIAL INSPECTIONS SHALL BE FORWARDED TO THE BUILDING OFFICIAL FOR APPROVAL. THE SPECIAL INSPECTOR(S) SHALL COMPLETE AND SUBMIT ALL FORMS REQUIRED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

4. THE SPECIAL INSPECTOR(S) SHALL:

A. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DRAWING AND SPECIFICATIONS.

B. FURNISH INSPECTION REPORTS TO THE ENGINEER OF RECORD AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF NOT CORRECTED, TO THE ENGINEER AND THE BUILDING DEPARTMENT.

C. SUBMIT TO THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT A SIGNED FINAL REPORT STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE OBC.

5. SPECIAL INSPECTION NOTES:

A. CONTINUOUS SPECIAL INSPECTION IS ALWAYS REQUIRED DURING THE PERFORMANCE OF THE WORK UNLESS SPECIFICALLY NOTED BELOW.

B. WHERE FABRICATION OF STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING THE PERFORMANCE OF THE WORK EXCEPT AS ALLOWED IN OBC SECTION 1740.2.2 AND UNLESS SPECIFICALLY NOTED BELOW.

C. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SPECIAL INSPECTOR(S) WITH ADVANCE NOTICE, NO LESS THAN ONE WORKING DAY, OF THE INITIATION OF ANY WORK REQUIRED TO HAVE SPECIAL INSPECTIONS. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION WILL BE SUBJECT TO REMOVAL.

STRUCTURAL SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY		REFERENCED STANDARD	CODE REFERENCE
		CONTINUOUS	PERIODIC		
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	X	-	X	-	1704.7
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	X	-	X	-	1704.7
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	X	-	X	-	1704.7
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	X	-	-	1704.7
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X	-	X	-	1704.7

STRUCTURAL SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY		REFERENCED STANDARD	CODE REFERENCE
		CONTINUOUS	PERIODIC		
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	X	-	X	ACI 318:3.5, 7.1-7.7	1913.4
INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH IBC TABLE 1704.3, ITEM 5B.	-	-	-	AWS D1.4 ACI 318: 3.5.2	-
INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	-	-	-	-	1911.5
VERIFYING USE OF REQUIRED DESIGN MIX.	X	-	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	X	-	ASTM C 172 ASTM C 31 ACI 318:5.6,5.8	1913.10
INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	-	-	-	ACI 318:5.9, 5.10	1913.6, 1913.7, 1913.8
INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	X	-	X	ACI 318: 5.11-5.13	1913.9
INSPECTION OF PRESTRESSED CONCRETE: A. APPLICATION OF PRESTRESSING FORCES. B. GROUTING OF BONDED PRESTRESSING TENDONS. IN THE SEISMIC-FORCE-RESISTING SYSTEM.	-	-	-	ACI 318: 18.20, 18.18.4	-
ERECTION OF PRECAST CONCRETE MEMBERS.	-	-	-	ACI 318: Ch. 16	-
VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	-	-	ACI 318:6.2	-
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	X	-	X	ACI 318:6.1.1	-

STRUCTURAL SPECIAL INSPECTION SCHEDULE: STEEL CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY		REFERENCED STANDARD	CODE REFERENCE
		CONTINUOUS	PERIODIC		
STRUCTURAL LOAD-BEARING MEMBERS & ASSEMBLIES	X	-	X	-	1704.2 OBC
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:					
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	-	APPLICABLE ASTM MATERIAL SPECIFICATIONS ,AISC 360, SEC. A3.3	-
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQ'D.	X	-	X	-	-
INSPECTION OF HIGH-STRENGTH BOLTING:					
BEARING-TYPE CONNECTIONS.	-	-	-	AISC 360, SECTION M2.5	1704.3.3
SLIP-CRITICAL CONNECTIONS	-	-	-	-	-
MATERIAL VERIFICATION OF STRUCTURAL STEEL:					
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	-	ASTM A 6 or ASTM A 568	1708.4
MANUFACTURER'S CERTIFIED MILL TEST REPORTS	-	-	-	-	-
MATERIAL VERIFICATION OF WELD FILLER MATERIALS:					
IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	-	-	AISC 360, SECTION A3.5	-
MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	X	-	X	-	-
INSPECTION OF WELDING, STRUCTURAL STEEL:					
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	-	-	-	-	-
MULTIPASS FILLET WELDS.	-	-	-	AWS D1.1	1704.3.1
SINGLE-PASS FILLET WELDS > 5/16"	-	-	-	-	-
SINGLE-PASS FILLET WELDS ≤ 5/16"	X	-	X	-	-
FLOOR AND ROOF DECK WELDS.	X	-	X	AWS D1.3	-
INSPECTION OF WELDING, REINFORCING STEEL:					
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	-	-	-	-
REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	-	-	-	AWS D1.4 ACI 318: 3.5.2	-
SHEAR REINFORCEMENT.	-	-	-	-	-
OTHER REINFORCING STEEL.	-	-	-	-	-
INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:					
DETAILED SUCH AS BRACING AND STIFFENING.	-	-	-	-	1704.3.2
MEMBER LOCATIONS.	X	-	X	-	-
APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	-	-	-	-

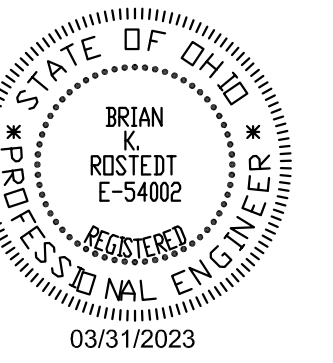
INSPECTION OF FABRICATORS SHOP AND IMPLEMENTATION PROCEDURES 1704.2

REQUIRED VERIFICATION & INSPECTION OF WOOD FRAMING

APPLICABLE TO PROJECT	VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
X	1. VERIFY LUMBER GRADE - VISUAL	-	X
X	2. SHEAR WALL NAILING PATTERNS - VISUAL	-	X
X	3. LIGHT GAGE METAL CONNECTIONS - VISUAL	-	X
X	4. SHEAR WALL HOLD DOWN ANCHORS - VISUAL	X	-

STRUCTURAL SPECIAL INSPECTION SCHEDULE: MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION TASK	APPLICABLE TO THIS PROJECT?	FREQUENCY		IBC SECTION	TMS 402/ACI 530/ASCE 5a	TMS 602/ACI 530.1/ASCE 5a
		CONTINUOUS	PERIODIC			
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	X	-	X	-	-	ART. 1.5
2. VERIFICATION OF f_m AND F_{AG} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.	X	-	X	-	-	ART. 1.4B
3. VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	X	X	-	-	-	ART. 1.5B.1.b.3
4. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	-	-	-	-	ART. 2.6A
B. CONSTRUCTION OF MORTAR JOINTS.	X	-	X	-	-	ART. 3.3B
C. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	X	-	X	-	-	ART. 3.4,3.6A
D. PRESTRESSING TECHNIQUE.	-	-	-	-	-	ART. 3.6A
E. GRADE AND SIZE PF PRESTRESSING TENDONS AND ANCHORAGES.	-	-	-	-	-	ART. 2.4B, 2.4H
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:						
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	-	-	-	-	-	ART. 3.3F
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	X	-	X	-	SEC. 1.2.2(e), 1.16.1	-
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES.	X	-	X	-	SEC. 1.15	ART. 2.4, 3.4
D. WELDING OF REINFORCING BARS.	-	-	-	-	SEC. 2.1.9.7.2 3.3.3.4(b)	-
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	-	-	-	SEC.2104.3, 2105.3	-	ART. 1.8C, 1.58D
F. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	-	-	-	-	-	ART. 3.6B
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:						
A. GROUT SPACE IS CLEAN.	X	-	X	-	-	ART. 3.2D
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	X	-	X	-	SEC.1.13	ART. 3.4
C. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	X	-	X	-	-	ART. 2.6B
D. CONSTRUCTION OF MORTAR JOINTS.	X	-	X	-	-	ART. 3.3B
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE:	X	-	X	-	-	ART. 3.5
A. GROUTING OF PRESTRESSING BONDED TENDONS.	-	-	-	-	-	ART. 3.6C
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	-	-	-	SEC.2105.2.2.2 105.3	-	ART. 1.4



REVISIONS

SPECIAL INSPECTIONS
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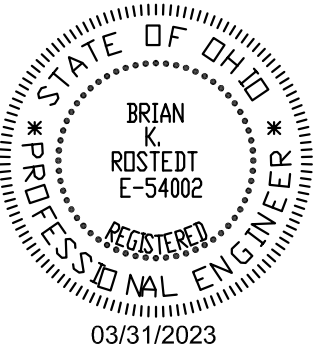
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PROJECT NUMBER

S001

DRAWING NUMBER



REVISIONS

FOUNDATION PLAN

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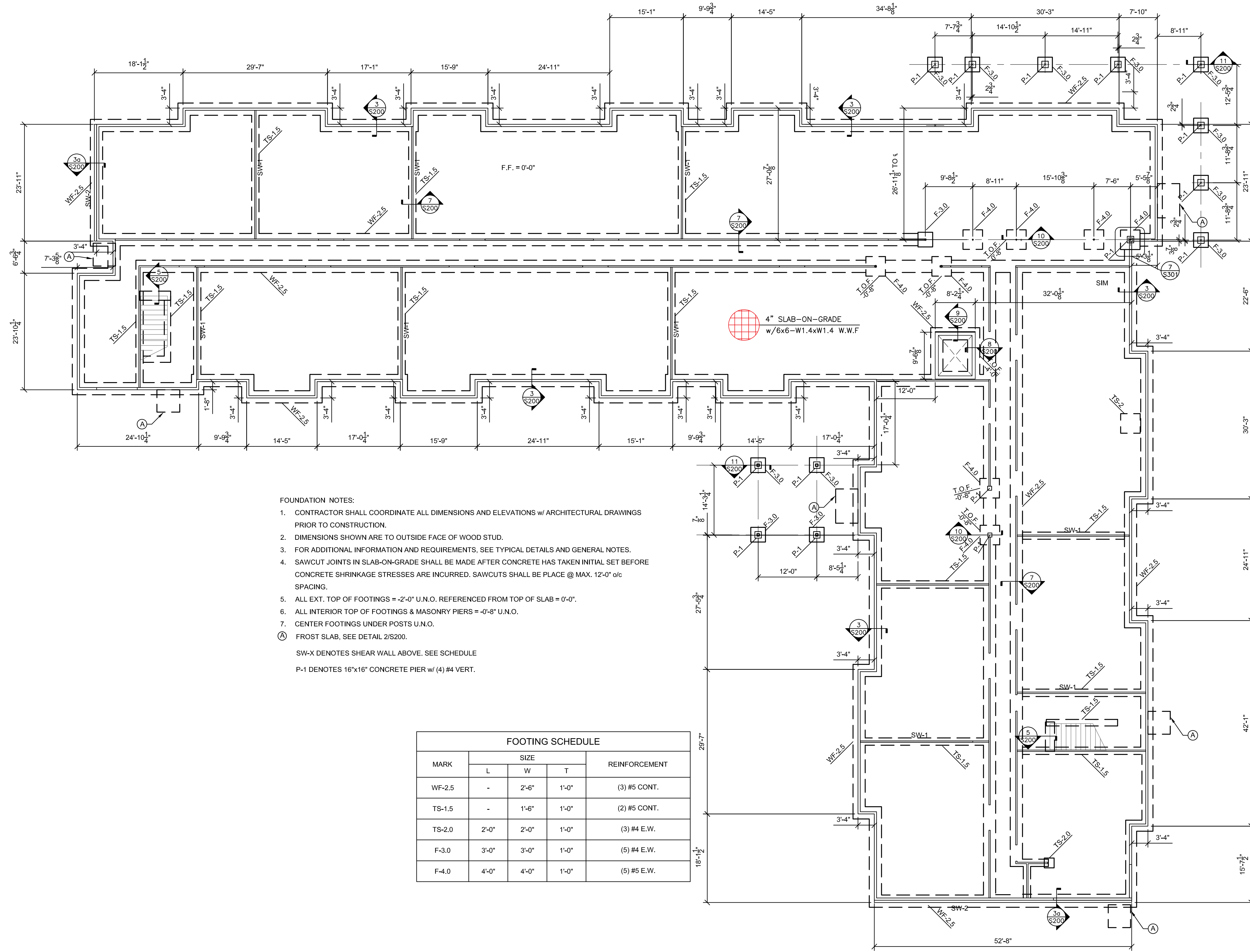
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PROJECT NUMBER

S100

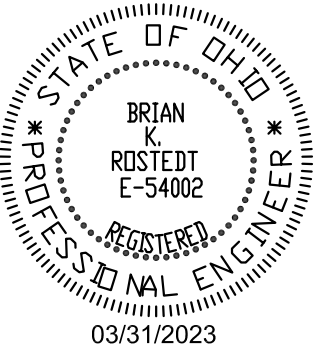
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- FOUNDATION NOTES:
1. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS w/ ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 2. DIMENSIONS SHOWN ARE TO OUTSIDE FACE OF WOOD STUD.
 3. FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE TYPICAL DETAILS AND GENERAL NOTES.
 4. SAWCUT JOINTS IN SLAB-ON-GRADE SHALL BE MADE AFTER CONCRETE HAS TAKEN INITIAL SET BEFORE CONCRETE SHRINKAGE STRESSES ARE INCURRED. SAWCUTS SHALL BE PLACE @ MAX. 12'-0" o/c SPACING.
 5. ALL EXT. TOP OF FOOTINGS = -2'-0" U.N.O. REFERENCED FROM TOP OF SLAB = 0'-0".
 6. ALL INTERIOR TOP OF FOOTINGS & MASONRY PIERS = -0'-8" U.N.O.
 7. CENTER FOOTINGS UNDER POSTS U.N.O.
- Ⓐ FROST SLAB, SEE DETAIL 2/S200.
- SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE
- P-1 DENOTES 16"x16" CONCRETE PIER w/ (4) #4 VERT.

MARK	SIZE			REINFORCEMENT
	L	W	T	
WF-2.5	-	2'-6"	1'-0"	(3) #5 CONT.
TS-1.5	-	1'-6"	1'-0"	(2) #5 CONT.
TS-2.0	2'-0"	2'-0"	1'-0"	(3) #4 E.W.
F-3.0	3'-0"	3'-0"	1'-0"	(5) #4 E.W.
F-4.0	4'-0"	4'-0"	1'-0"	(5) #5 E.W.

1 FOUNDATION PLAN
S100
3/32" = 1'-0"



REVISIONS

2ND FLOOR FRAMING PLAN
 GERMANTOWN CROSSING
 DAYTON OHIO



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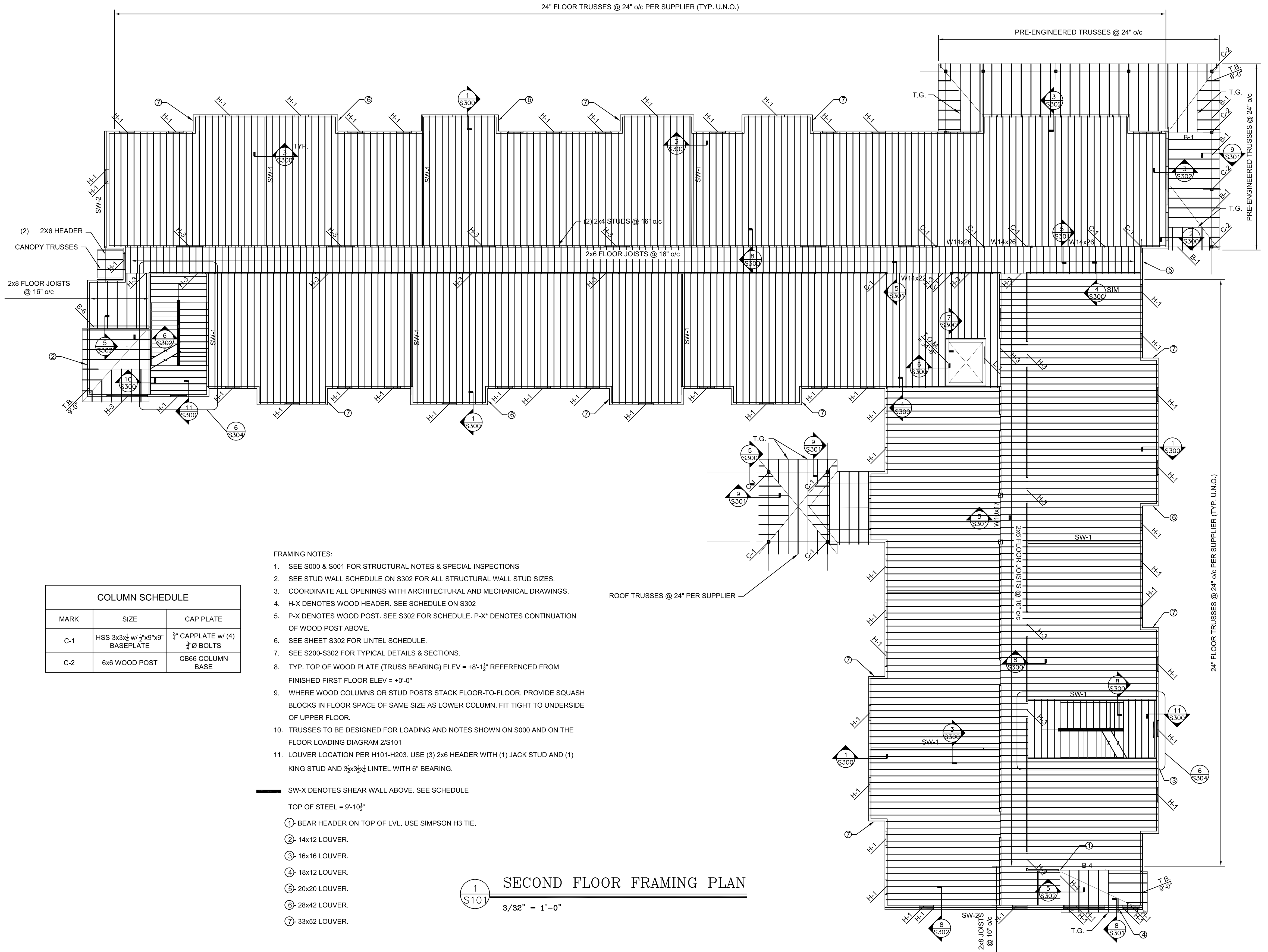
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PROJECT NUMBER

S101

DRAWING NUMBER



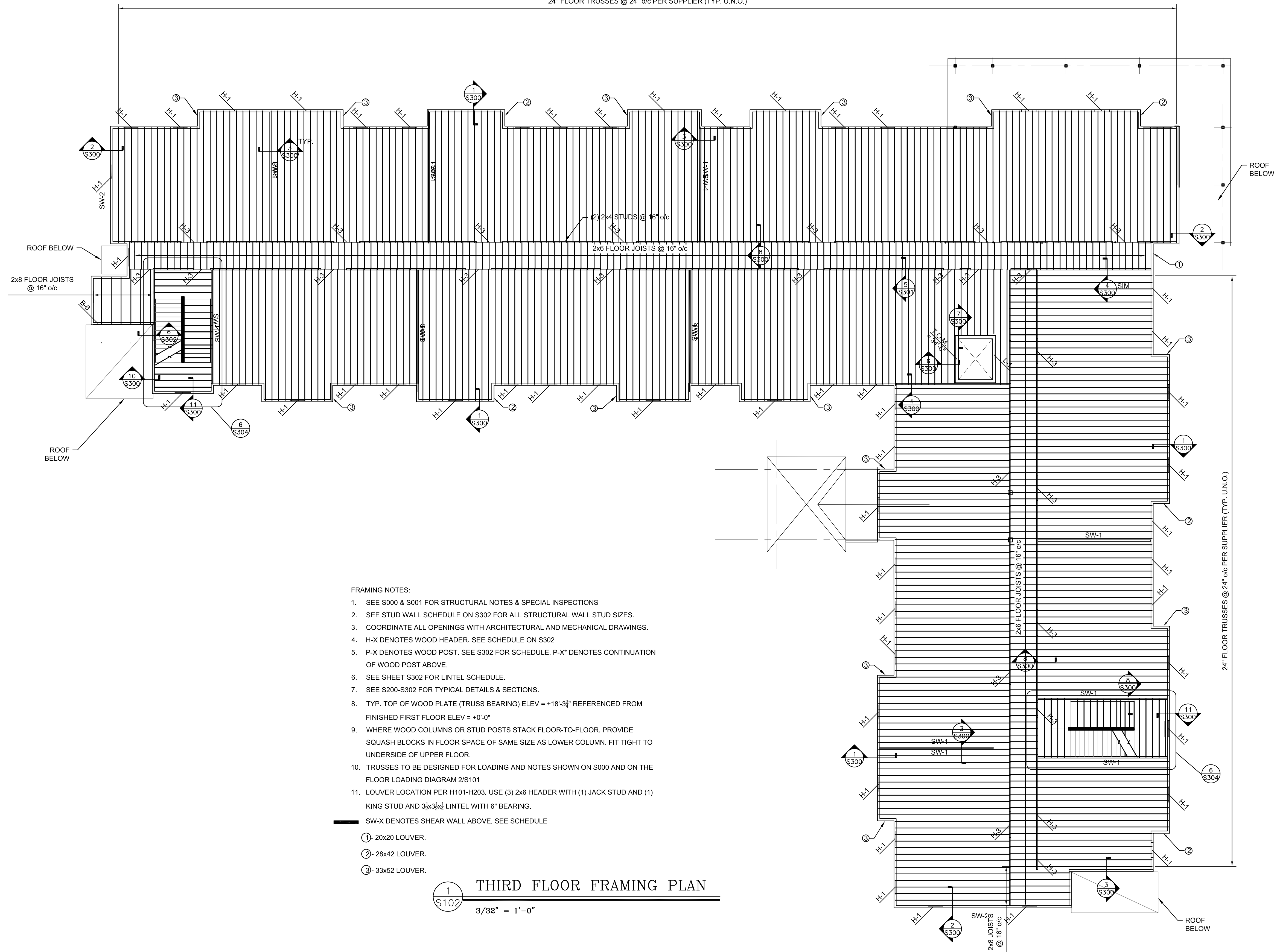
COLUMN SCHEDULE		
MARK	SIZE	CAP PLATE
C-1	HSS 3x3x $\frac{1}{4}$ w/ $\frac{1}{2}$ "x9"x9" BASEPLATE	$\frac{3}{4}$ " CAPPLATE w/ (4) $\frac{3}{4}$ " Ø BOLTS
C-2	6x6 WOOD POST	CB66 COLUMN BASE

- FRAMING NOTES:
- SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
 - SEE STUD WALL SCHEDULE ON S302 FOR ALL STRUCTURAL WALL STUD SIZES.
 - COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S302
 - P-X DENOTES WOOD POST. SEE S302 FOR SCHEDULE. P-X* DENOTES CONTINUATION OF WOOD POST ABOVE.
 - SEE SHEET S302 FOR LINTEL SCHEDULE.
 - SEE S200-S302 FOR TYPICAL DETAILS & SECTIONS.
 - TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +8'-1 $\frac{1}{2}$ " REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
 - WHERE WOOD COLUMNS OR STUD POSTS STACK FLOOR-TO-FLOOR, PROVIDE SQUASH BLOCKS IN FLOOR SPACE OF SAME SIZE AS LOWER COLUMN. FIT TIGHT TO UNDERSIDE OF UPPER FLOOR.
 - TRUSSES TO BE DESIGNED FOR LOADING AND NOTES SHOWN ON S000 AND ON THE FLOOR LOADING DIAGRAM 2/S101
 - LOUVER LOCATION PER H101-H203. USE (3) 2x6 HEADER WITH (1) JACK STUD AND (1) KING STUD AND $\frac{3}{4}$ "x $\frac{3}{4}$ " LINTEL WITH 6" BEARING.

- SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE
- TOP OF STEEL = 9'-10 $\frac{1}{2}$ "
- ① BEAR HEADER ON TOP OF LVL. USE SIMPSON H3 TIE.
- ② 14x12 LOUVER.
- ③ 16x16 LOUVER.
- ④ 18x12 LOUVER.
- ⑤ 20x20 LOUVER.
- ⑥ 28x42 LOUVER.
- ⑦ 33x52 LOUVER.

1 SECOND FLOOR FRAMING PLAN
 3/32" = 1'-0"

24" FLOOR TRUSSES @ 24" o/c PER SUPPLIER (TYP. U.N.O.)



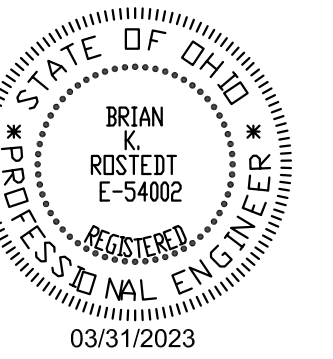
FRAMING NOTES:

1. SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
2. SEE STUD WALL SCHEDULE ON S302 FOR ALL STRUCTURAL WALL STUD SIZES.
3. COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S302
5. P-X DENOTES WOOD POST. SEE S302 FOR SCHEDULE. P-X* DENOTES CONTINUATION OF WOOD POST ABOVE.
6. SEE SHEET S302 FOR LINTEL SCHEDULE.
7. SEE S200-S302 FOR TYPICAL DETAILS & SECTIONS.
8. TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +18'-3 3/8" REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
9. WHERE WOOD COLUMNS OR STUD POSTS STACK FLOOR-TO-FLOOR, PROVIDE SQUASH BLOCKS IN FLOOR SPACE OF SAME SIZE AS LOWER COLUMN. FIT TIGHT TO UNDERSIDE OF UPPER FLOOR.
10. TRUSSES TO BE DESIGNED FOR LOADING AND NOTES SHOWN ON S000 AND ON THE FLOOR LOADING DIAGRAM 2/S101
11. LOUVER LOCATION PER H101-H203. USE (3) 2x6 HEADER WITH (1) JACK STUD AND (1) KING STUD AND 3/4"x3/4" LINTEL WITH 6" BEARING.

SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE

- ① 20x20 LOUVER.
- ② 28x42 LOUVER.
- ③ 33x52 LOUVER.

1
S102
THIRD FLOOR FRAMING PLAN
3/32" = 1'-0"



REVISIONS

3RD FLOOR FRAMING PLAN
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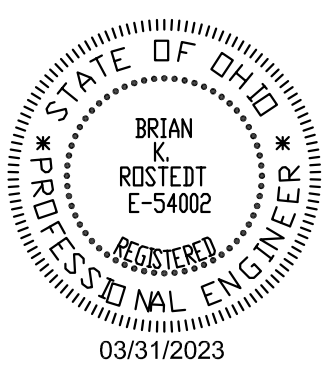
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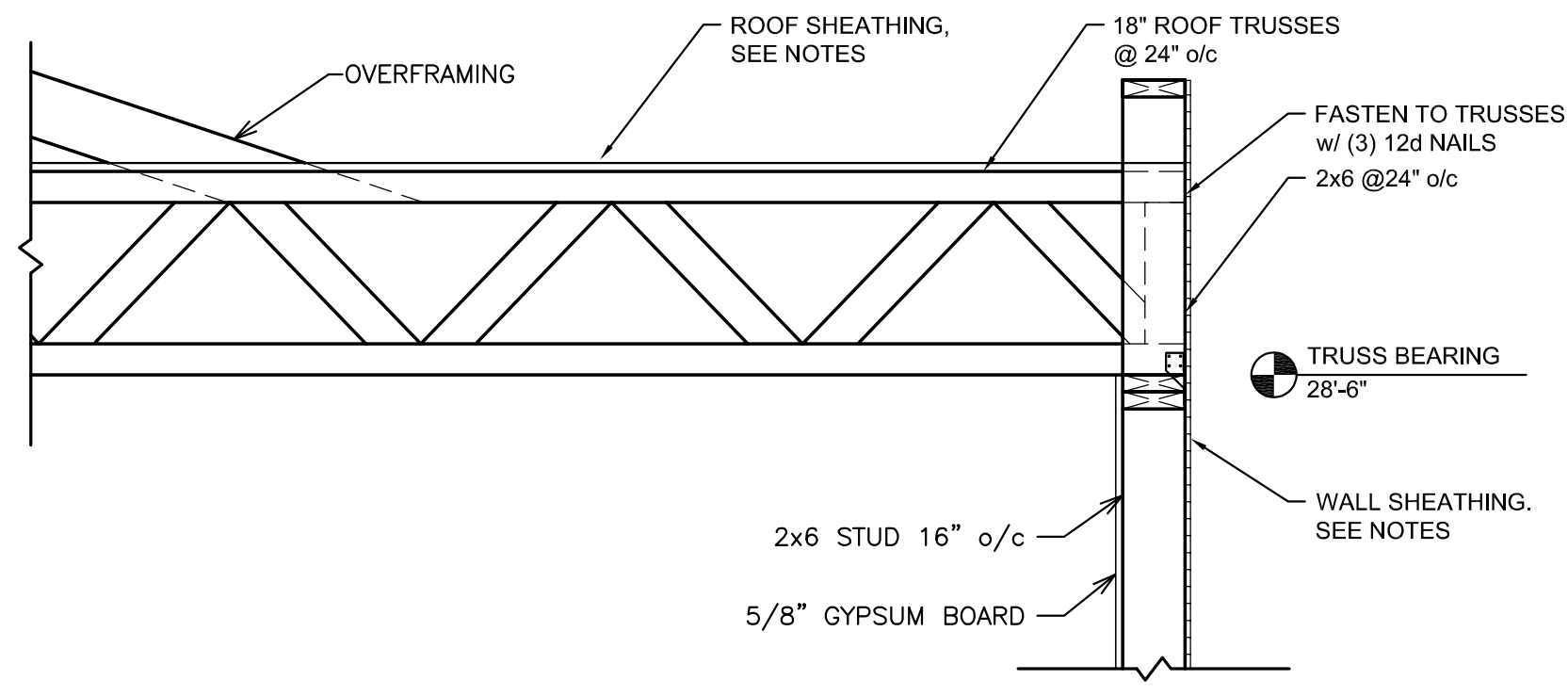
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S102

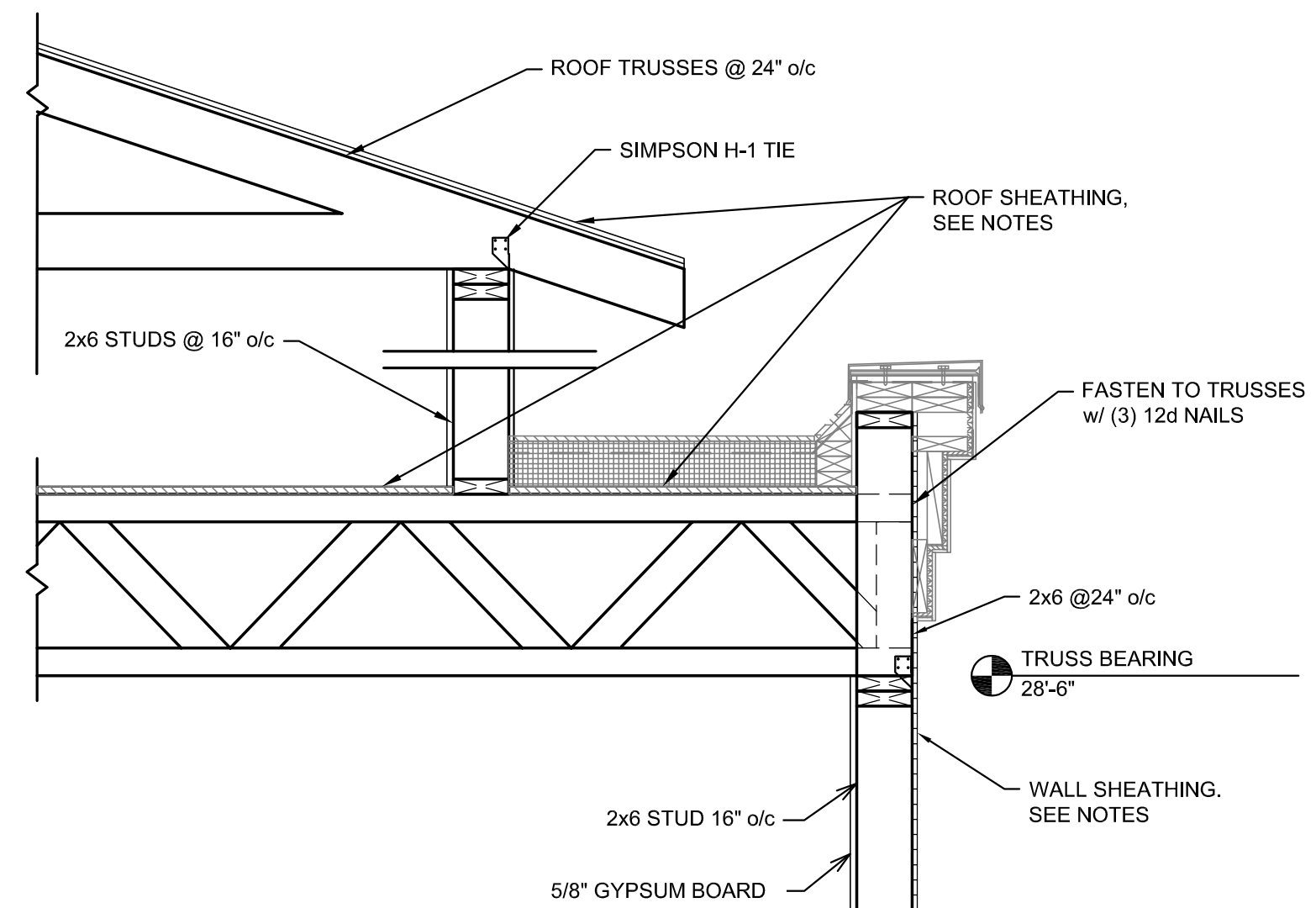
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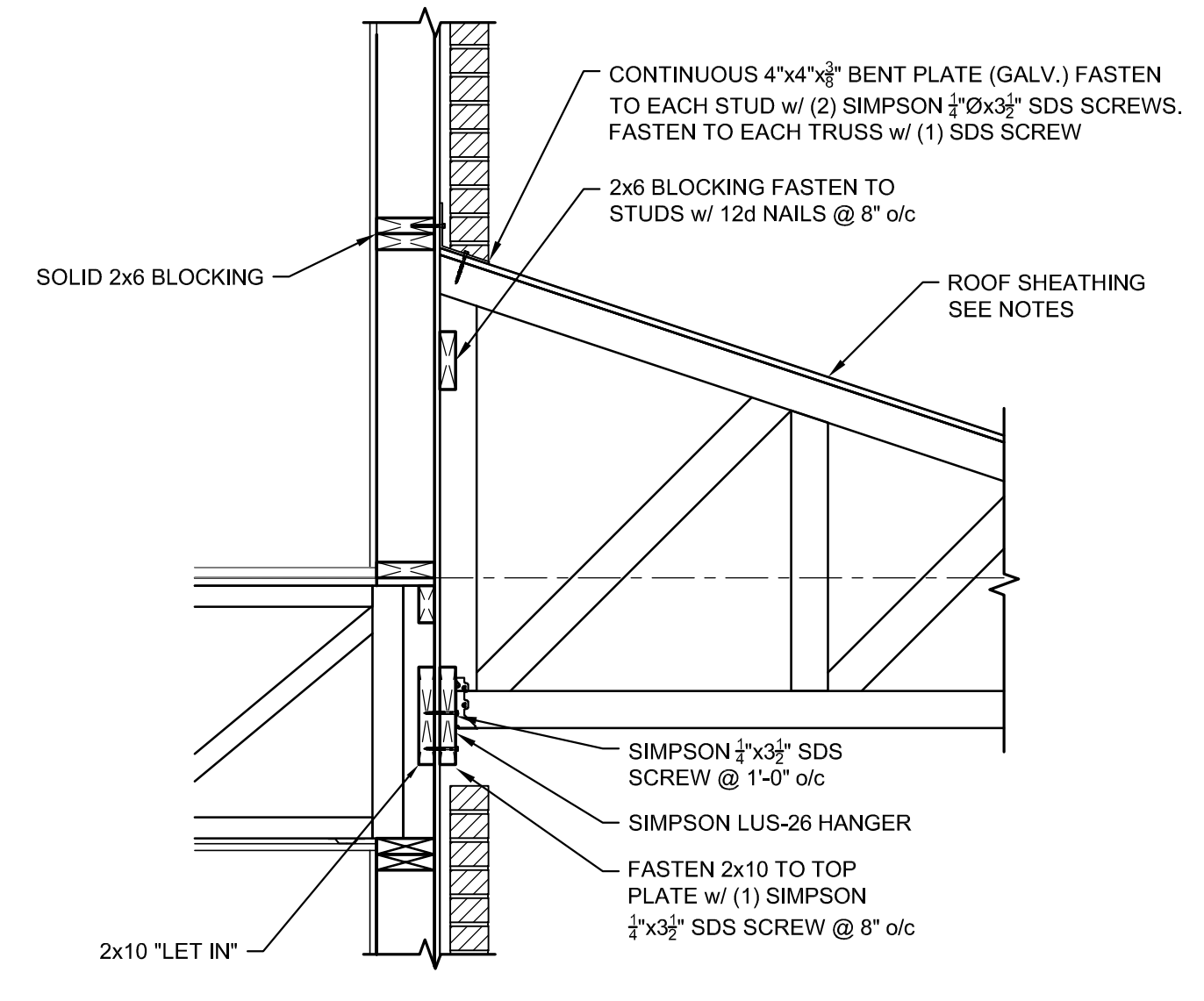
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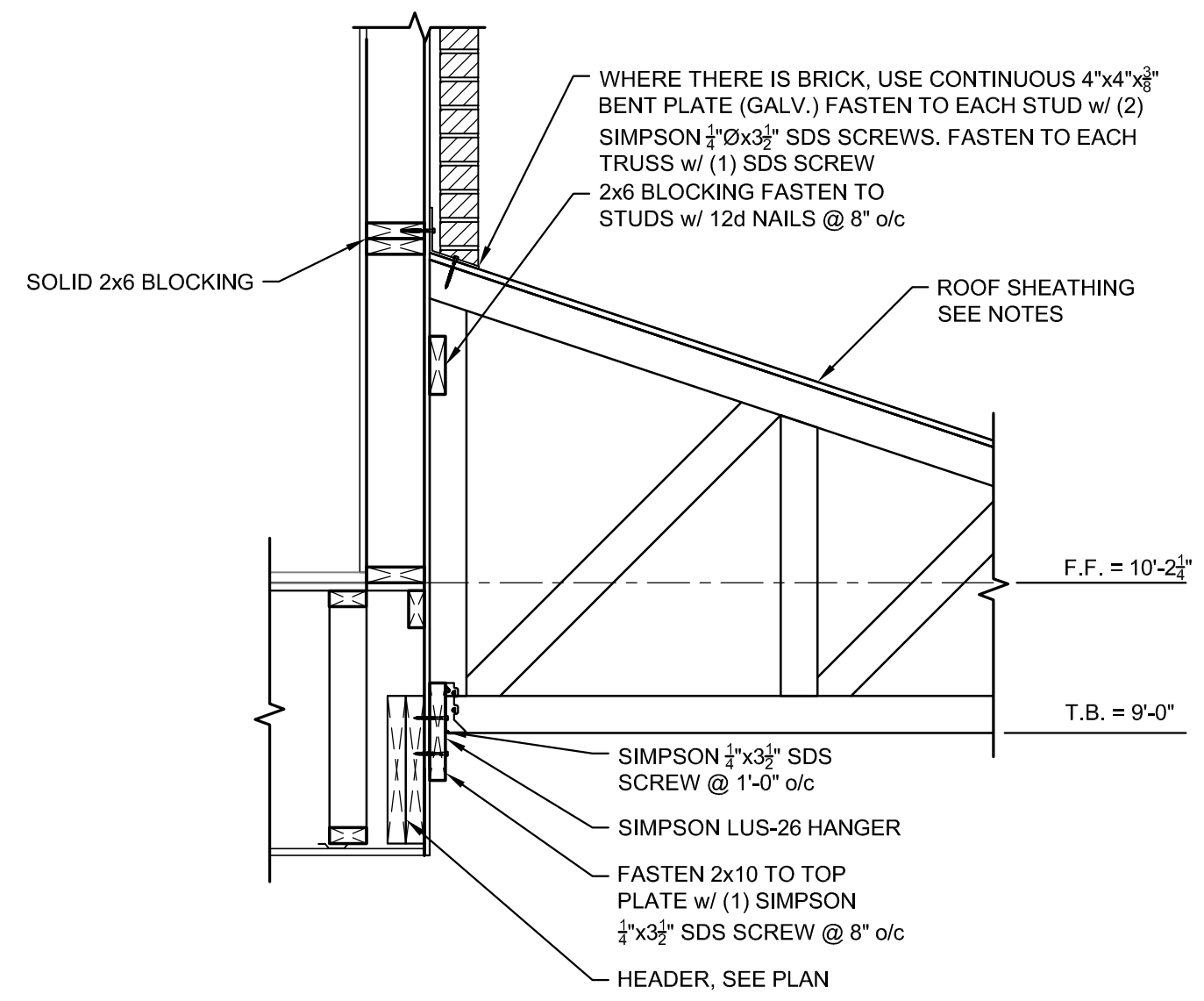
1 ROOF SECTION
S302 3/4" = 1'-0"



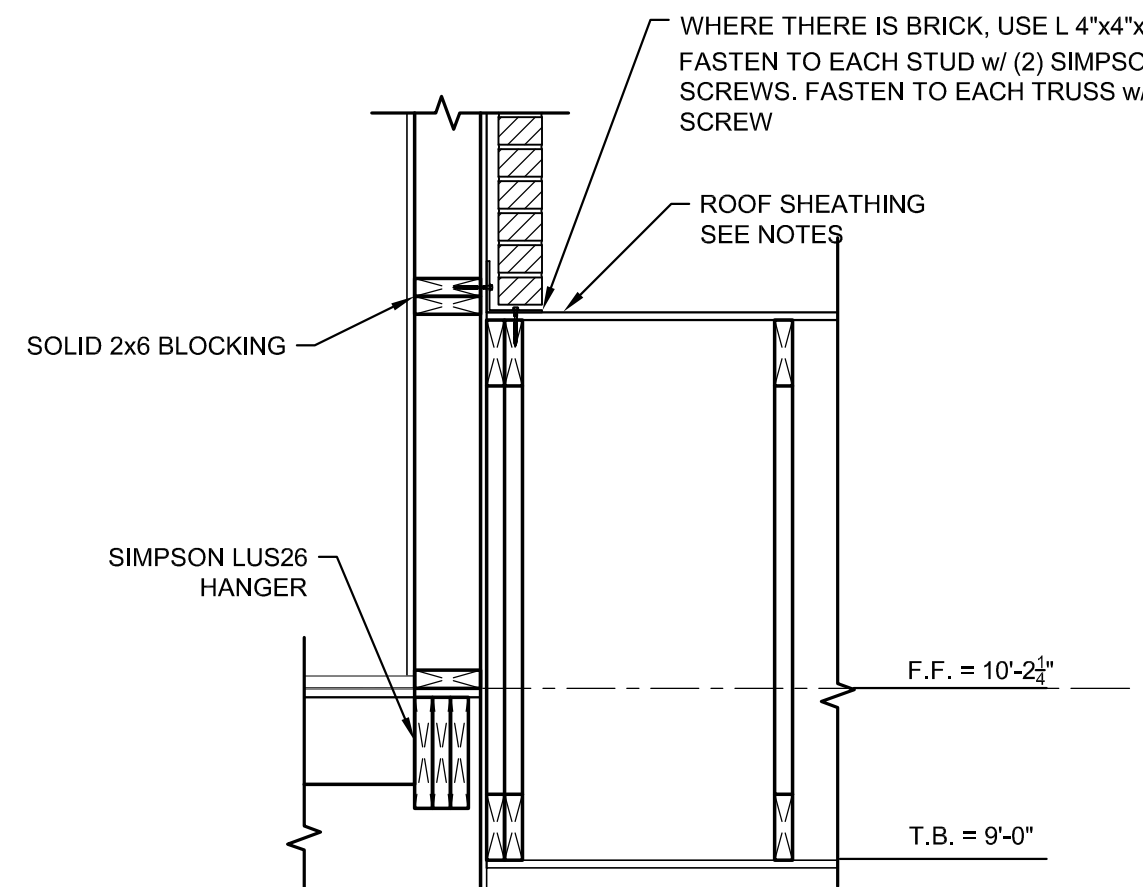
2 ROOF SECTION
S302 3/4" = 1'-0"



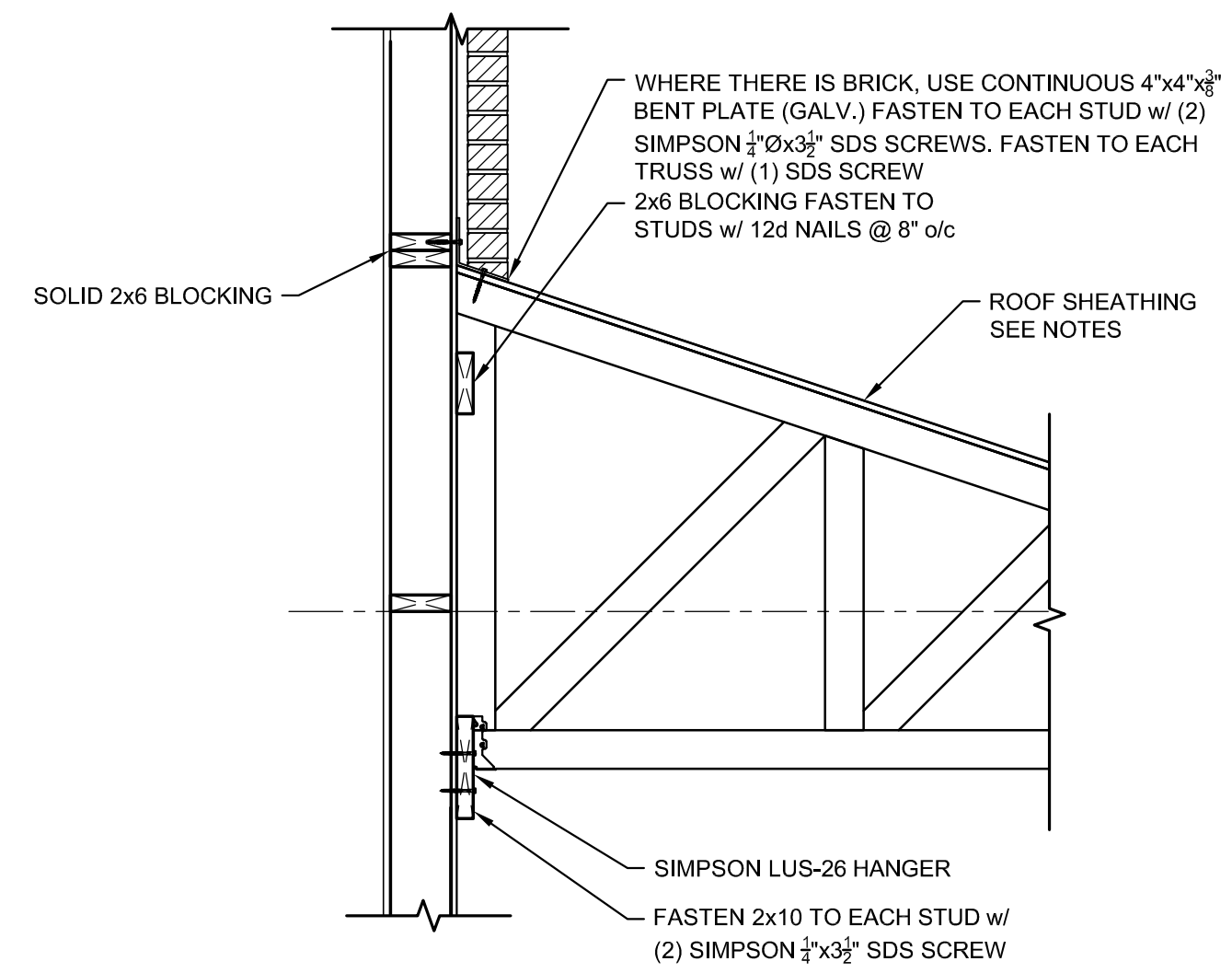
3 ROOF SECTION
S302 3/4" = 1'-0"



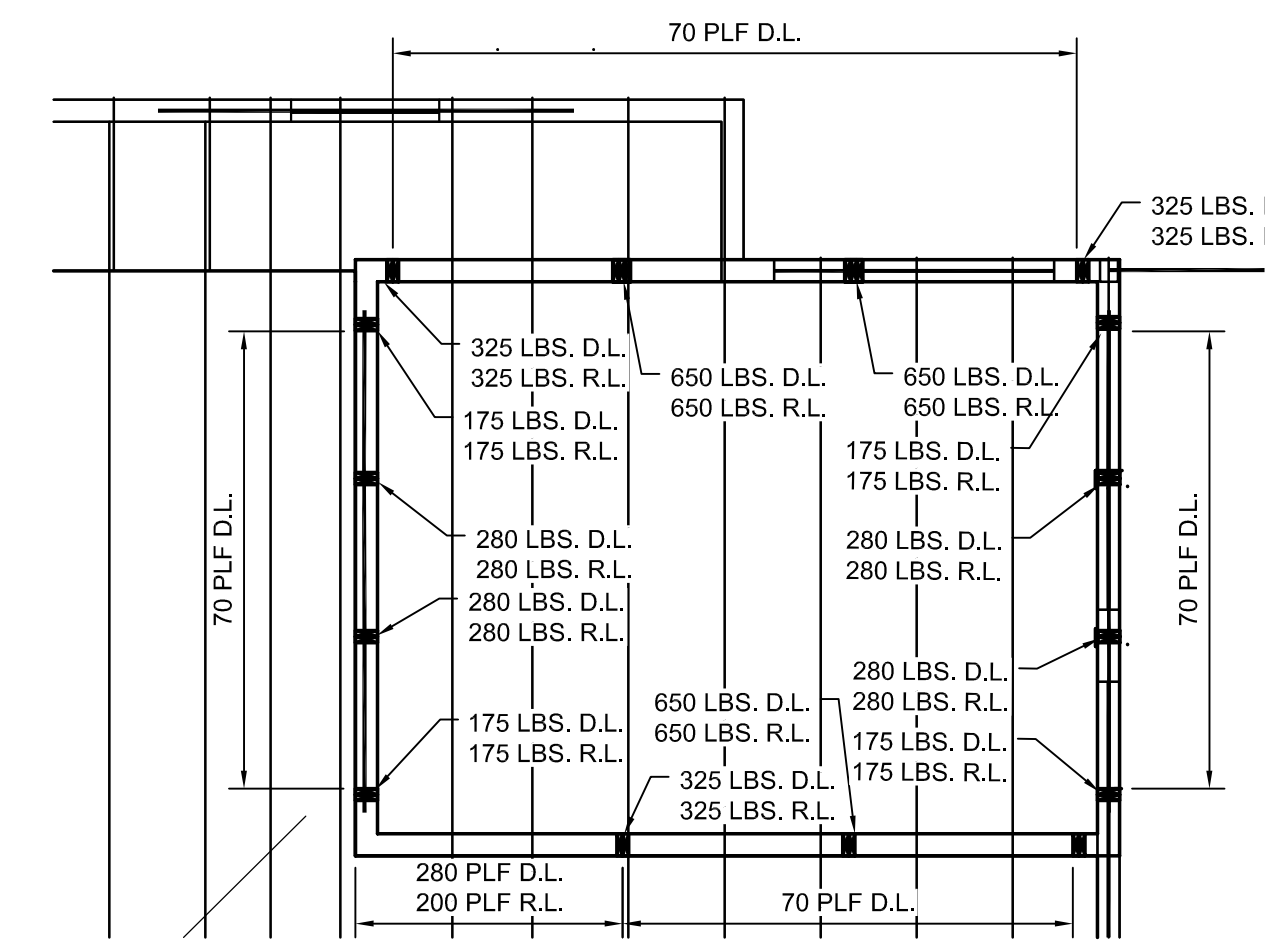
4 ROOF SECTION
S302 3/4" = 1'-0"



5 ROOF SECTION
S302 3/4" = 1'-0"



6 ROOF SECTION
S302 3/4" = 1'-0"



7 FLAT ROOF TRUSS LOADING
S302 1/4" = 1'-0"

FRAMING DETAILS
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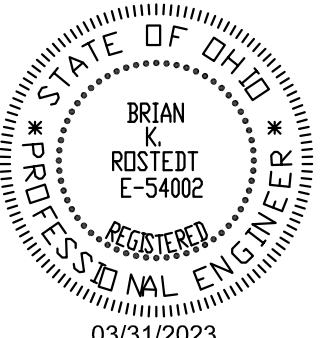
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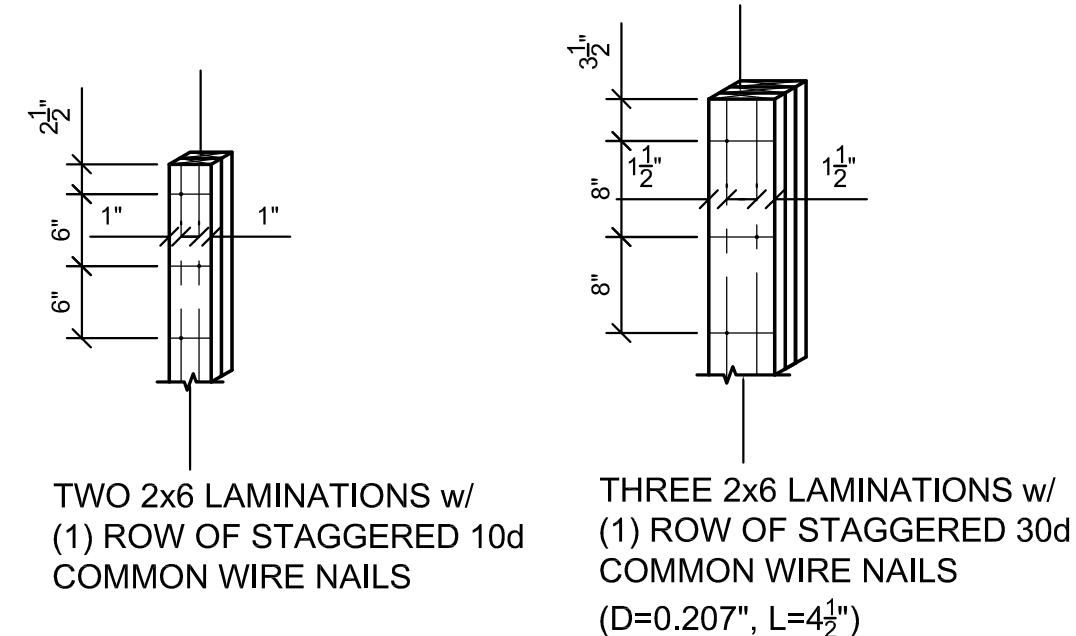
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PROJECT NUMBER

S302
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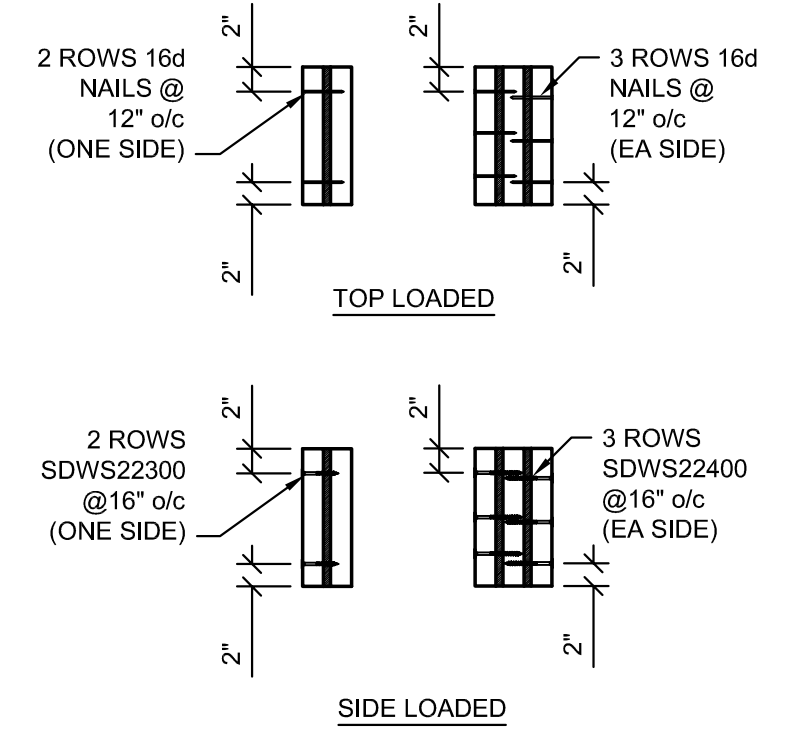
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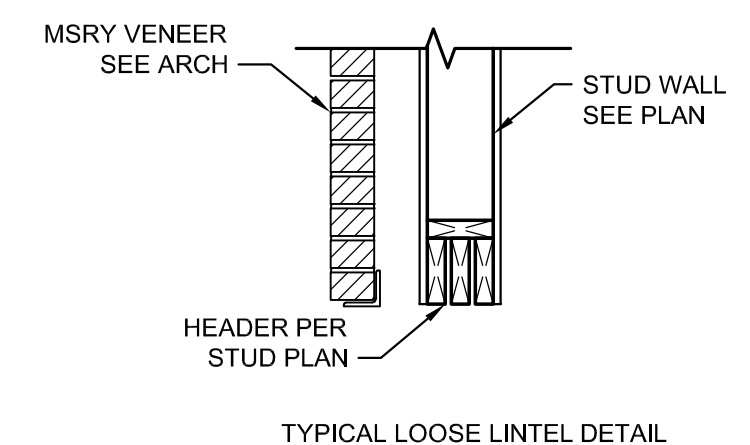
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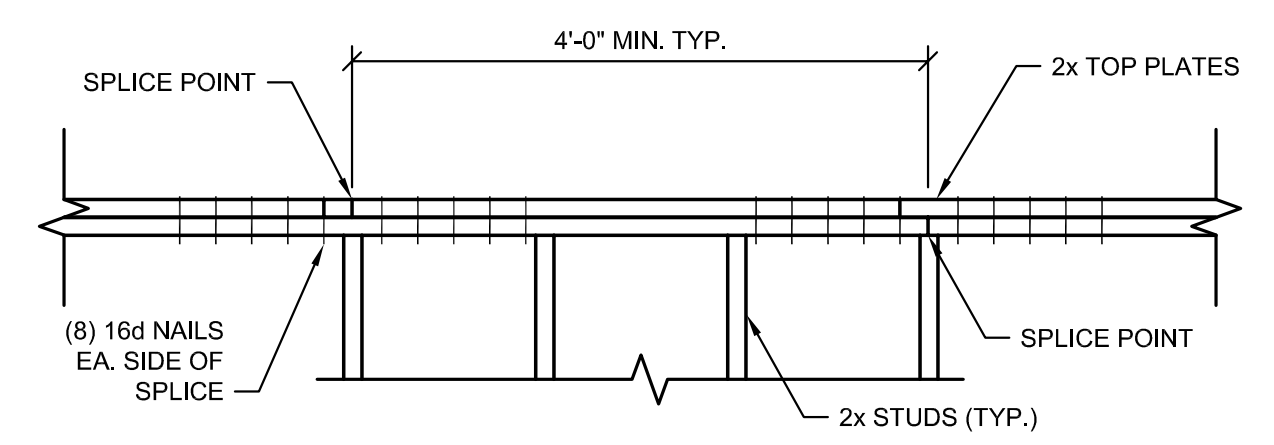
1 POST NAILING SCHEDULE
S303 1" = 1'-0"



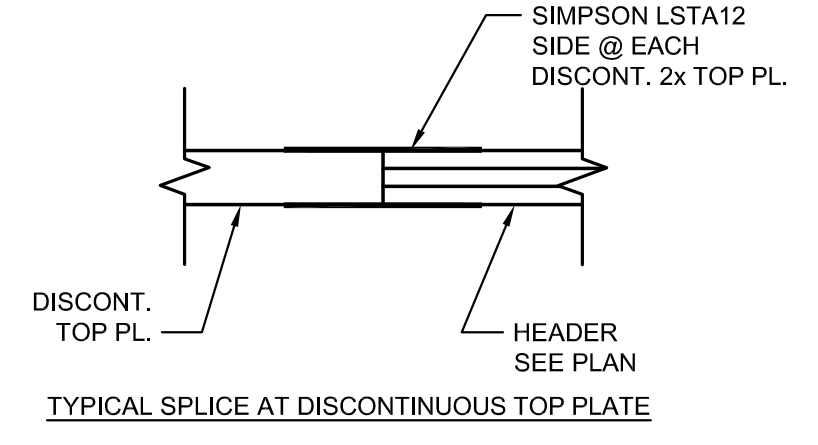
2 HEADER CONNECTIONS
S303 3/4" = 1'-0"



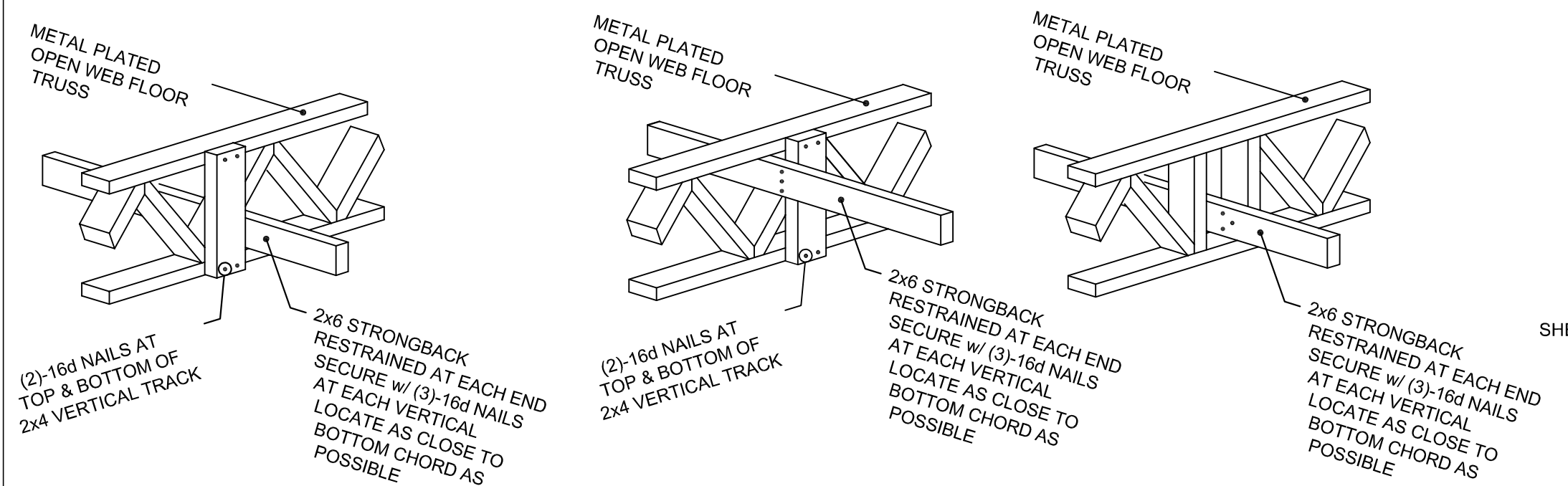
3 SECTION
S303 3/4" = 1'-0"



4 TYPICAL TOP PLATE SPLICE
S303 3/4" = 1'-0"

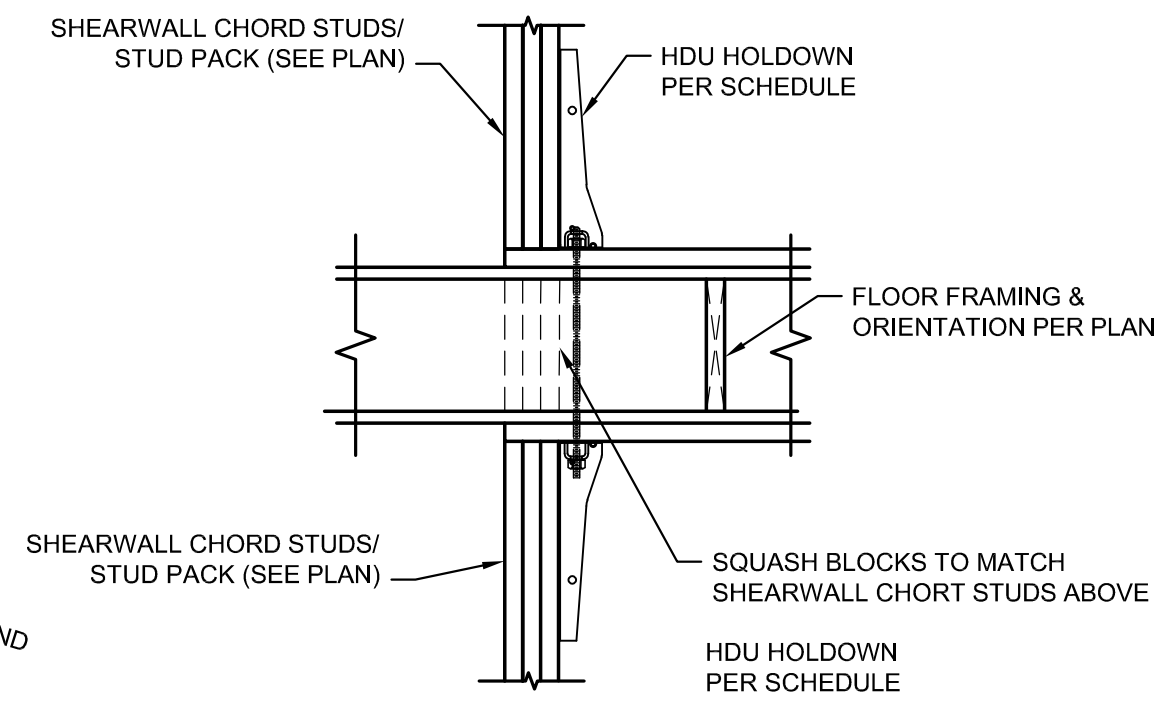


5 SECTION
S303 3/4" = 1'-0"

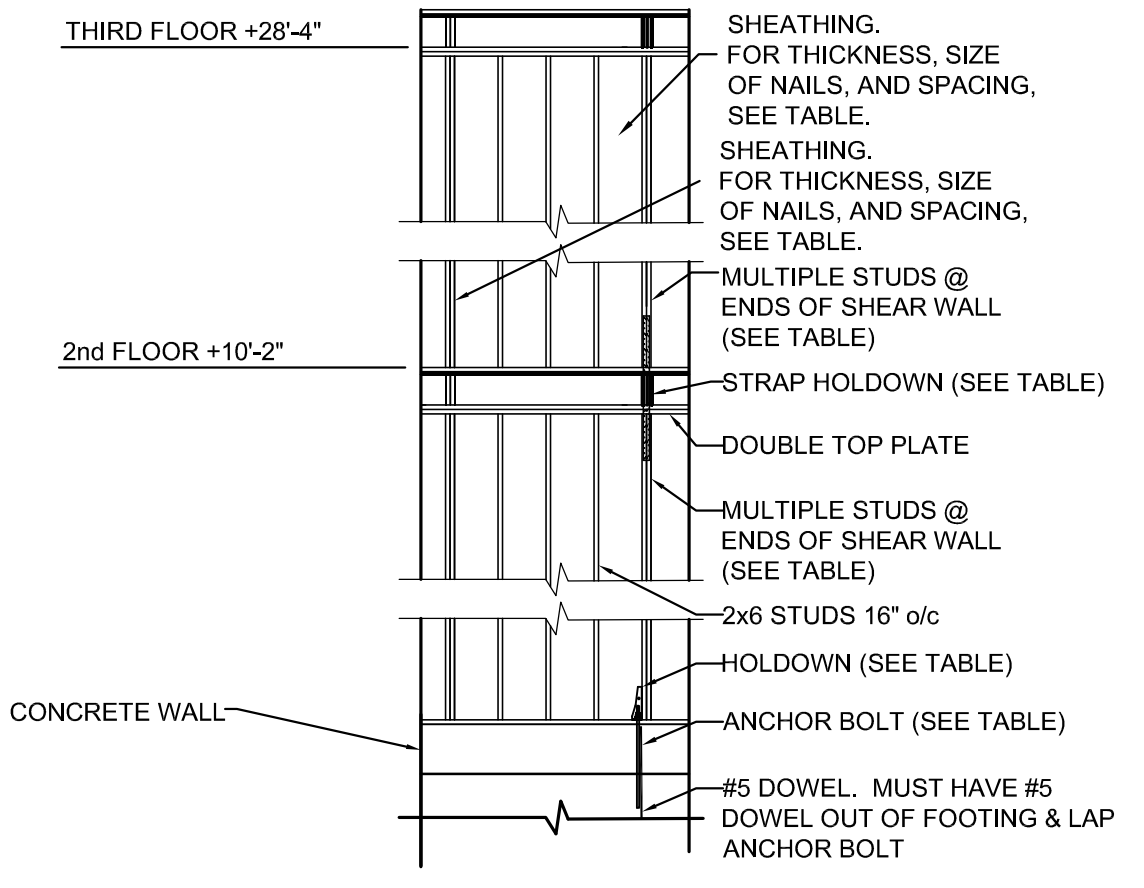


STRONGBACKS AT 10'-0" o.c. (MAX.) ARE REQUIRED TO MAINTAIN FIRE ASSEMBLIES.

6 TYPICAL STRONGBACK DETAILS
S303 3/4" = 1'-0"



7 HOLDDOWN SECTION
S303 3/4" = 1'-0"



8 SHEAR WALL LAYOUT
S303 N.T.S.

MARK	LEVEL	HEADER SIZE	BEARING STUDS	KING STUDS
H-1	1-3 EXTERIOR	(3)-2x8	(1)-2x6	(1)-2x6
H-3	1-3 INTERIOR	(2)-2x8	(2)-2x4	(1)-2x4
H-3	1-3 INTERIOR	(2)-2x12	(2)-2x4	(1)-2x4
H-4	1-3 INTERIOR	(2)-2x10	(2)-2x6	-

MARK	SIZE	BEARING STUD
B-1	(2)-2x12	
B-2	(3)-2x12	
B-3	(2)-1.75x11.25" LVL	(1) 2x6
B-4	(2)-1.75x14" LVL	(2) 2x6
B-5	(3)-1.75x11.25" LVL	(2) 2x6
B-6	(3)-1.75x9.25" LVL	(2) 2x6

SPAN LIMITS	SIZE	BEARING
0'-0" TO 1'-0"	1/2" PLATE	4"
1'-1" TO 4'-0"	L3x3x1/4	6"
4'-1" TO 5'-0"	L4x3x1/4 LLV	0'-6"
5'-1" TO 6'-0"	L5x3x1/8 LLV	0'-6"
6'-1" TO 7'-0"	(1) L4x3x1/4 LLV w/(1) L3x2x1/4	6"

NOTES:
 -PROVIDE (1) ANGLE FOR EACH 4" OF MASONRY WALL THICKNESS U.N.O.
 -LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER IN FINISHED STRUCTURE SHALL BE HOT-DIPPED GALVANIZED
 -ALL MASONRY WALL LINTELS SHALL BEAR ON 16" SOLID MASONRY BELOW LINTEL EXTENDED 16" HORIZONTALLY BEYOND END OF LINTEL.

LEVEL	GRADE AND SPECIES	INTERIOR	EXTERIOR
2ND TO 3RD	No. 2 SPRUCE PINE FIR (SPF)	SEE PLAN	2x6 @ 16" o/c
1ST TO 2ND	No. 2 SPRUCE PINE FIR (SPF)	SEE PLAN	2x6 @ 16" o/c
GROUND TO 2ND	No. 2 SPRUCE PINE FIR (SPF)	SEE PLAN	2x6 @ 12" o/c

NOTE:
 -ABOVE SCHEDULE IS APPLICABLE TO LOAD BEARING WALLS ONLY. STUD SIZES AND SPACING ARE ENGINEERING MINIMUMS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
 -FOR NON-BEARING WALLS/SHAFT, REFER TO ARCHITECTURAL DRAWINGS.

MARK	LEVEL	SHEATHING							END STUDS	HOLD DOWN/FLOOR TIES				
		THICKNESS	TYPE	SIDE	BLOCKED	FASTENERS	EDGE SPACING	FIELD SPACING		LEVEL	TYPE	FASTENERS	ANCHOR ROD	EMBEDMENT
SW1	1	1/2"	GYPSUM BOARD	BOTH SIDES	NO	0.120"Ø NAILx1-3/4" LG.w/1/8" GALV. MIN. HEAD	4" o/c	4" o/c	(2)-2x	1	HDU4-SDS2.5	(10)-1/4"x2 1/2" SDS	5/8"Ø	8"
SW1	2-3	1/2"	GYPSUM BOARD	BOTH SIDES	NO	0.120"Ø NAILx1-3/4" LG.w/1/8" GALV. MIN. HEAD	4" o/c	4" o/c	(2)-2x	2 & 3	CS20	(14) 10d NAILS	-	-
SW2	2 - 3-ROOF	1/2"	32/16 APA RATED WALL SHEATHING EXPOSURE 1.	EXT	NO	8d COMMON NAILS w/ 1-3/8" PEN.	4" o/c	12" o/c	(2)-2x	2 & 3	CS20	(14) 10d NAILS	-	-
	1	1/2"	32/16 APA RATED WALL SHEATHING EXPOSURE 1.	EXT	NO	8d COMMON NAILS w/ 1-3/8" PEN.	4" o/c	12" o/c	(2)-2x	1	HDU4-SDS2.5	(10)-1/4"x2 1/2" SDS	5/8"Ø	8"

NOTES:
 - SHEATHING REQUIREMENTS ARE FOR STRUCTURAL ONLY. SEE ARCHITECTURAL FOR COMPLETE WALL ASSEMBLY
 - SHEATHING AND GYP BOARD MUST BE ATTACHED DIRECTLY TO STUDS
 - ALL EDGES OF PANELS MUST BE ON THE SAME STUD AS ADJACENT PANEL
 - END JOINTS OF PANELS SHALL NOT OCCUR AT THE SAME STUD (STAGGER PANELS)
 - MAXIMUM STUD SPACING SHALL BE 16" o/c
 - HOLD DOWNS ARE BY SIMPSON COMPANY OR EQUAL. HOLDDOWN STUD FASTENERS ARE SIMPSON PROPRIETARY FASTENERS.
 - FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED IN FROM PANEL EDGES NOT LESS THAN 3/8" INCHES
 - PANELS LESS THAN 12 INCHES WIDE SHALL NOT BE USED, UNLESS NOTED, ALL SHEATHING EDGES SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING.
 - BOUNDARY STUDS AT THE END OF THE SHEAR WALLS SHALL BE ATTACHED PER THE MINIMUM NAILING REQUIREMENTS
 - THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE 2" NOMINAL OR GREATER.

DETAILS AND SCHEDULES
GERMANTOWN CROSSING
DAYTON OHIO



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S303
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Chief Schwobenc 3/31/23
SIGNATURE DATE

REVISIONS

FIRST FLOOR PLAN - PLUMBING
GERMANTOWN CROSSING
DAYTON OHIO

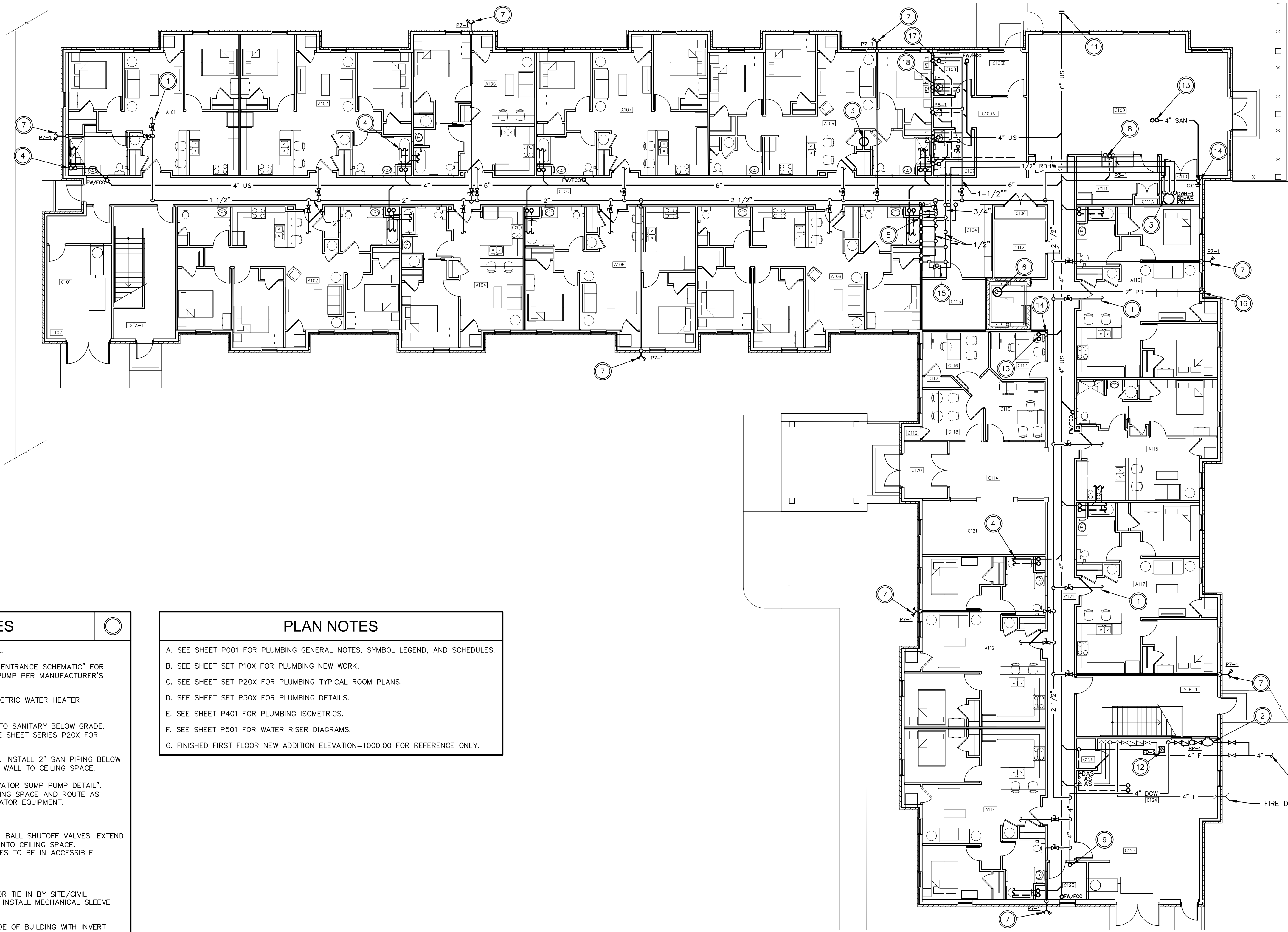


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P101
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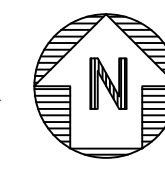
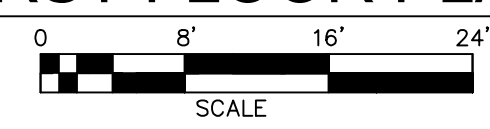


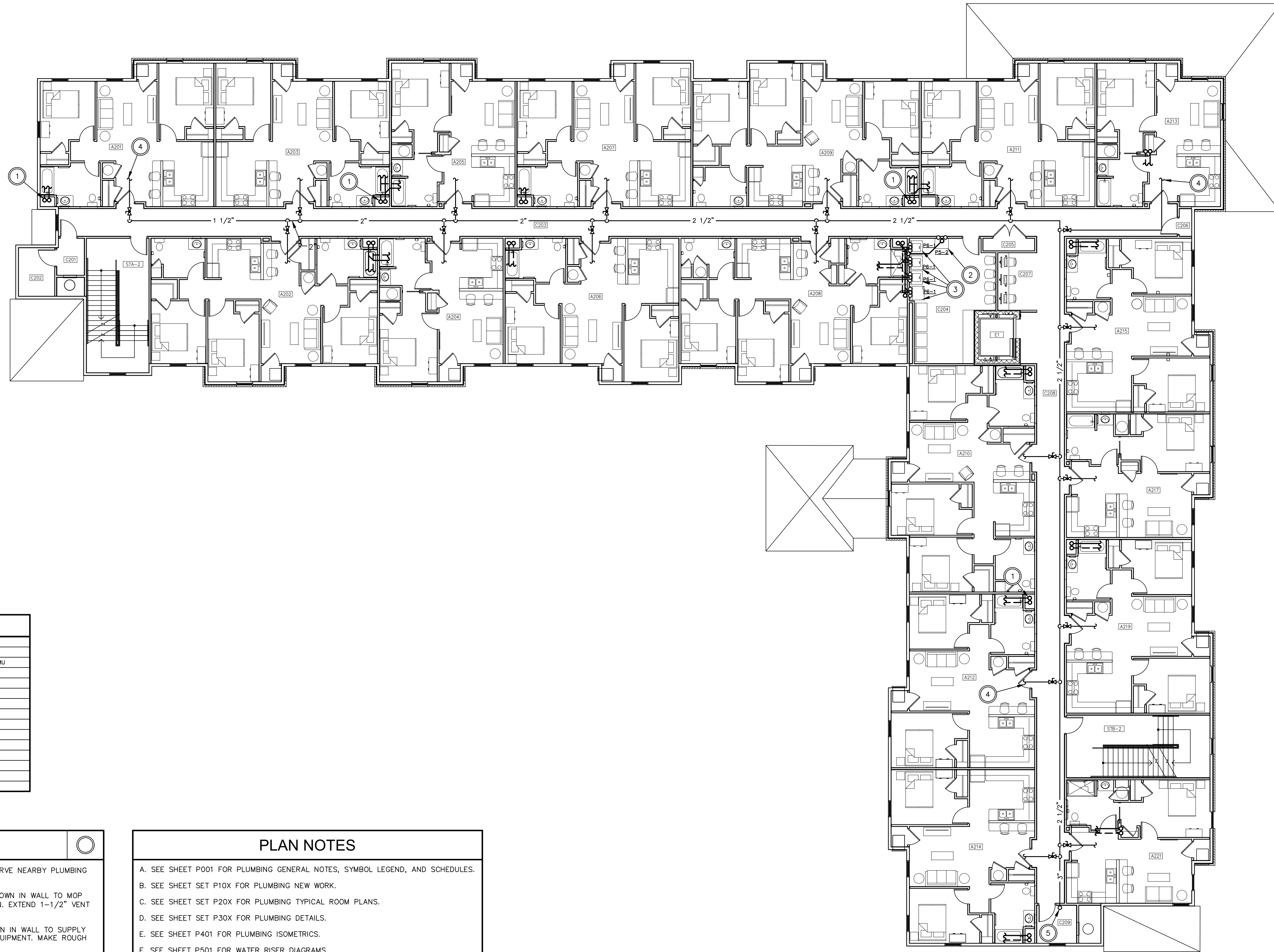
ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	ELEV. MECH	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

CODED NOTES	
1.	SEE SHEET SET P20X FOR CONTINUATION. TYPICAL.
2.	WATER SERVICE ENTRANCE, SEE "WATER SERVICE ENTRANCE SCHEMATIC" FOR DETAILS. INSTALL WITH DOMESTIC HOT WATER RECIRC PUMP PER MANUFACTURER'S RECOMMENDATIONS.
3.	SIMPLEX DOMESTIC HOT WATER HEATER. SEE "ELECTRIC WATER HEATER SCHEMATIC".
4.	4" SAN AND 3" VENT STACK. TIE VENT PIPING INTO SANITARY BELOW GRADE. INSTALL CLEANOUT 1' A.F.F. FOR SANITARY STACK. SEE SHEET SERIES P20X FOR CONTINUATION. TYPICAL.
5.	INSTALL 1/2" DCW PIPING DOWN IN WALL TO EWC. INSTALL 2" SAN PIPING BELOW AND EXTEND UP IN WALL. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE.
6.	INSTALL SUMP PUMP IN ELEVATOR PIT. SEE "ELEVATOR SUMP PUMP DETAIL". INSTALL 2" PUMP DISCHARGE UP ALONG WALL TO CEILING SPACE AND ROUTE AS SHOWN. COORDINATE FINAL SUMP LOCATION WITH ELEVATOR EQUIPMENT.
7.	1/2" DCW PIPING TO HOSE BIBB P7-3.
8.	EXTEND 1/2" DCW AND DHW PIPING TO SINK WITH BALL SHUTOFF VALVES. EXTEND 2" SAN PIPING TO SINK AND 1-1/2" VENT PIPING UP INTO CEILING SPACE. COORDINATE ROUGH IN AND FINAL CONNECTIONS. VALVES TO BE IN ACCESSIBLE LOCATIONS.
9.	4" DCW PIPING DOWN FROM ABOVE.
10.	EXTEND 4" DCW PIPING 5' OUTSIDE OF BUILDING FOR TIE IN BY SITE/CIVIL CONTRACTOR. SEE SITE PLAN FOR MORE INFORMATION. INSTALL MECHANICAL SLEEVE AND SEAL AT EXTERIOR WALL PENETRATION.
11.	6" SANITARY SERVICE. END 6" US PIPING 5' OUTSIDE OF BUILDING WITH INVERT ELEVATION = 993.4' P.C. TO MAKE CONNECTION CLEANOUT PROVIDED BY SITE CONTRACTOR. INSTAL SLEEVE AT FOUNDATION PENETRATION. COORDINATE INSTALLATION WITH G.C.
12.	EXTEND 3" US PIPING TO FLOOR SINK AND EXTEND 2" VENT UP AS SHOWN. PROVIDE WITH "SURESEAL" WATERLESS INLINE DRAIN TRAP SEAL OR APPROVED EQUAL.
13.	4" SAN AND 3" VENT STACK. TIE 3" VENT INTO BASE OF STACK ABOVE CEILING.
14.	4" SAN DOWN TO BELOW GRADE WITH CLEANOUT 1' A.F.F.
15.	BALANCE TO 1.0 GPM.
16.	2" PD PIPING TO PENETRATE BUILDING LOW ON WALL. SEE "DOWNSPOUT NOZZLE DETAIL".
17.	1/2" DCW PIPING DOWN TO WATER CLOSET. EXTEND 4" SAN TO W.C. FLANGE. EXTEND 2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
18.	1/2" DCW AND 1/2" DHW DOWN IN WALL TO SINK/LAV. EXTEND 1-1/2" SAN TO LAV. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. INSTALL 1-1/2" SAN IN CEILING SPACE BELOW AND EXTEND UP IN WALL TO SINK. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.

PLAN NOTES	
A.	SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
B.	SEE SHEET SET P10X FOR PLUMBING NEW WORK.
C.	SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
D.	SEE SHEET SET P30X FOR PLUMBING DETAILS.
E.	SEE SHEET P401 FOR PLUMBING ISOMETRICS.
F.	SEE SHEET P501 FOR WATER RISER DIAGRAMS.
G.	FINISHED FIRST FLOOR NEW ADDITION ELEVATION=1000.00 FOR REFERENCE ONLY.

NEW WORK - FIRST FLOOR PLAN - PLUMBING



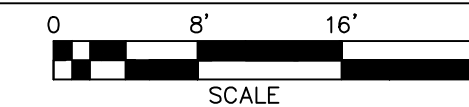


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM S&H	STB-2	STAIR B

CODED NOTES	
○	1. 4" SANITARY AND 3" VENT PIPING UP FROM BELOW TO SERVE NEARBY PLUMBING FIXTURES. SEE SHEET SET P20X FOR CONTINUATION. TYPICAL.
○	2. INSTALL 1/2" DCW AND DHW PIPING WITH CHECK VALVES DOWN IN WALL TO MOP BASIN. EXTEND 3" SAN PIPING UP FROM BELOW TO MOP BASIN. EXTEND 1-1/2" VENT UP INTO CEILING SPACE.
○	3. WASHING MACHINE. INSTALL 1/2" DCW AND DHW LINES DOWN IN WALL TO SUPPLY BOX. COORDINATE FINAL LOCATION WITH OWNER FURNISHED EQUIPMENT. MAKE ROUGH -IN AND FINAL CONNECTIONS.
○	4. SEE SHEET SET P20X FOR CONTINUATION. TYPICAL.
○	5. 3" DCW PIPING UP AND 4" DCW PIPING DOWN.

PLAN NOTES	
A.	SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
B.	SEE SHEET SET P10X FOR PLUMBING NEW WORK.
C.	SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
D.	SEE SHEET SET P30X FOR PLUMBING DETAILS.
E.	SEE SHEET P401 FOR PLUMBING ISOMETRICS.
F.	SEE SHEET P501 FOR WATER RISER DIAGRAMS.

NEW WORK - SECOND FLOOR PLAN - PLUMBING



Chief Schoonover 3/31/23
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REVISIONS

SECOND FLOOR PLAN - PLUMBING
GERMANTOWN CROSSING
DAYTON OHIO

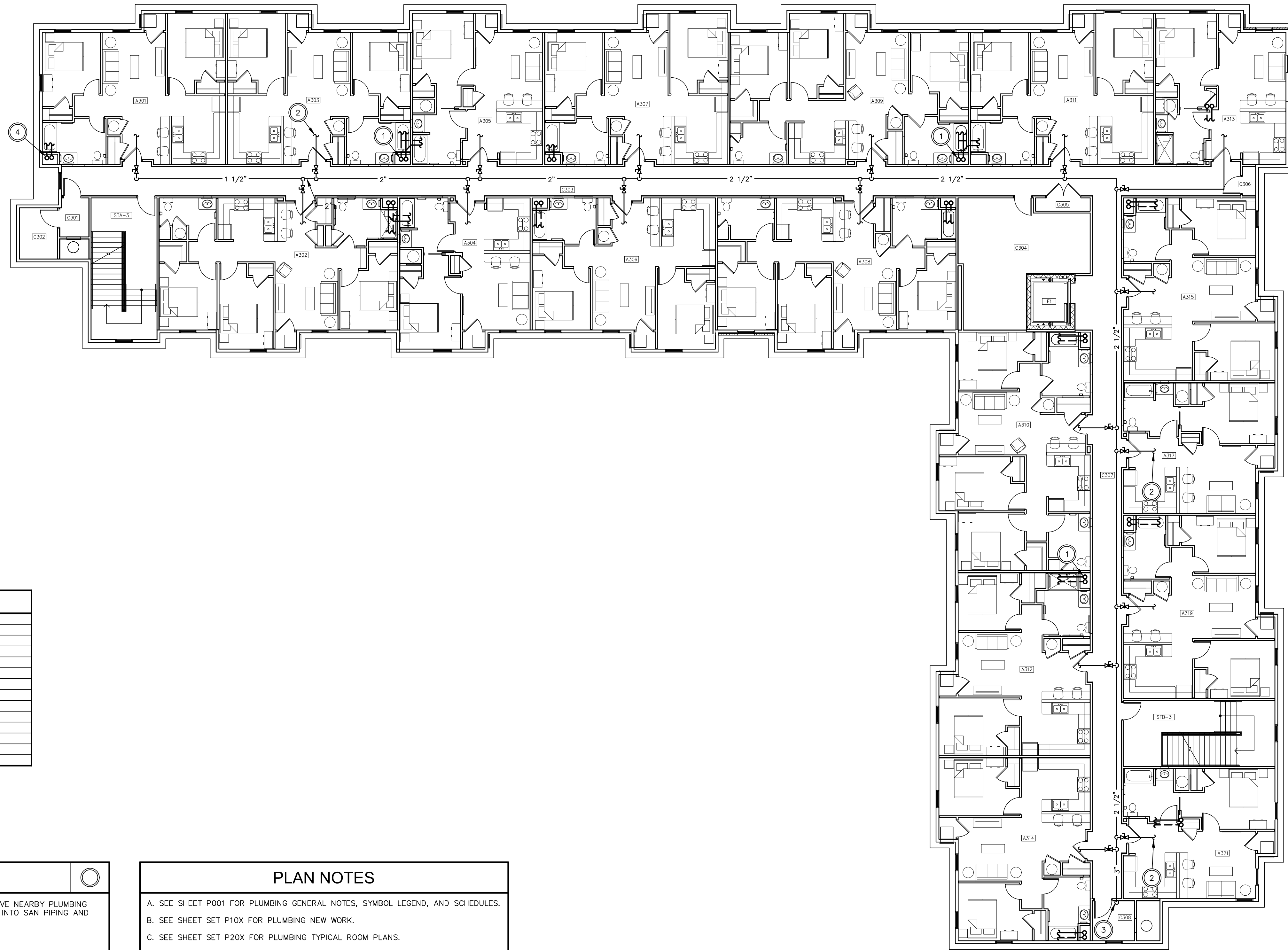


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ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
1.	4" SANITARY AND 3" VENT PIPING UP FROM BELOW TO SERVE NEARBY PLUMBING FIXTURES. SEE SHEET SET P20X FOR CONTINUATION. TIE VENT INTO SAN PIPING AND EXTEND 4" V.T.R. TYPICAL.
2.	SEE SHEET SET P20X FOR CONTINUATION. TYPICAL.
3.	3" DCW PIPING DOWN.

PLAN NOTES	
A.	SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
B.	SEE SHEET SET P10X FOR PLUMBING NEW WORK.
C.	SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
D.	SEE SHEET SET P30X FOR PLUMBING DETAILS.
E.	SEE SHEET P401 FOR PLUMBING ISOMETRICS.
F.	SEE SHEET P501 FOR WATER RISER DIAGRAMS.

NEW WORK - THIRD FLOOR PLAN - PLUMBING



Signature: *Chief Schwabenc* /31/23
DATE

REVISIONS

THIRD FLOOR PLAN - PLUMBING
GERMANTOWN CROSSING
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P103
DRAWING NUMBER

DRAWING NUMBER

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PLAN NOTES

A. SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
 B. SEE SHEET SET P10X FOR PLUMBING NEW WORK.
 C. SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
 D. SEE SHEET SET P30X FOR PLUMBING DETAILS.
 E. SEE SHEET P401 FOR PLUMBING ISOMETRICS.
 F. SEE SHEET P501 FOR WATER RISER DIAGRAMS.
 G. FINISHED FIRST FLOOR NEW ADDITION ELEVATION=1000.00 FOR REFERENCE ONLY.

CODED NOTES

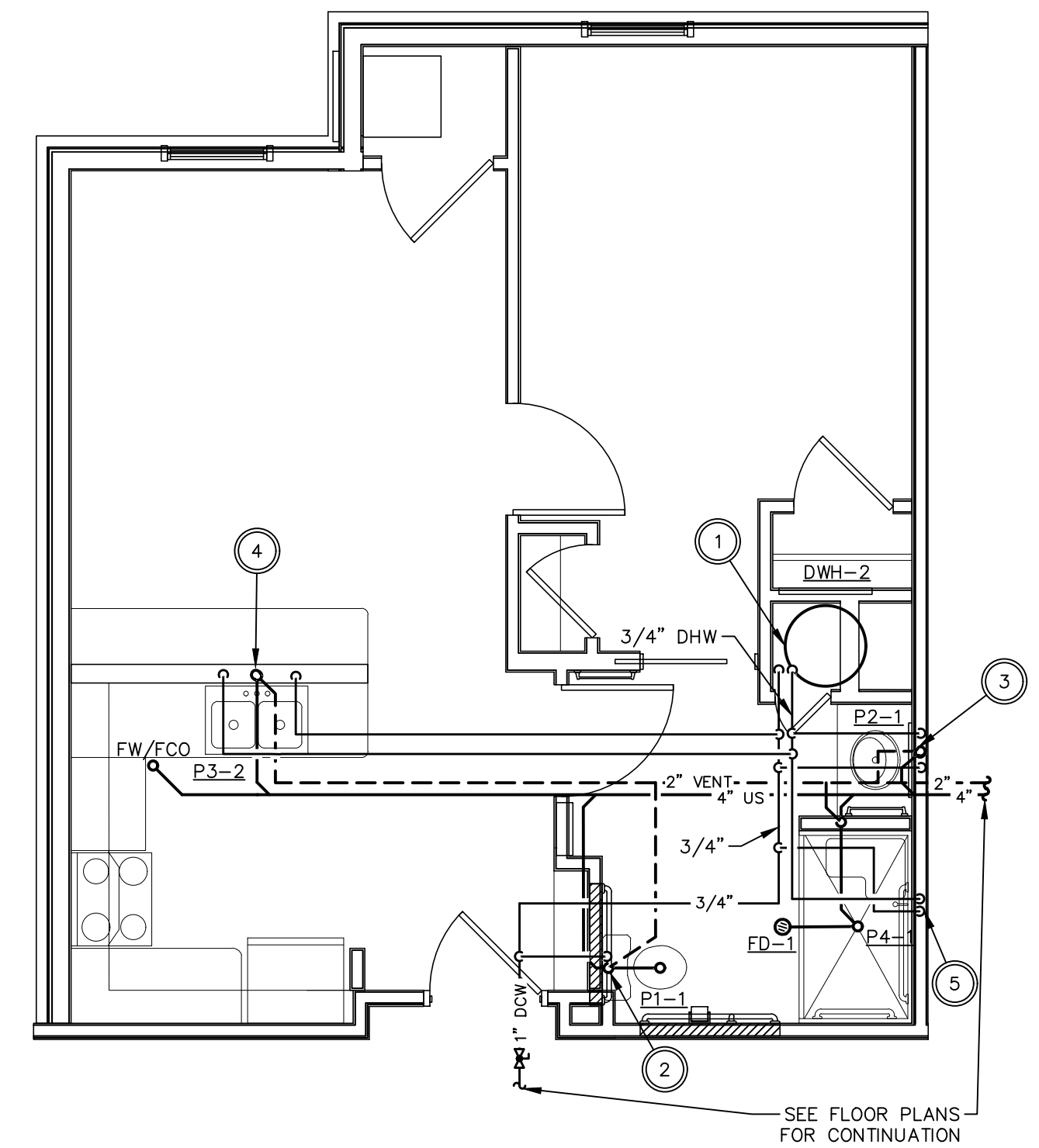
1. SIMPLEX DOMESTIC HOT WATER HEATER. SEE "ELECTRIC WATER HEATER SCHEMATIC". HOT WATER EXPANSION TANK TO BE MOUNTED FROM STRUCTURE ABOVE.
 2. 1/2" DCW PIPING DOWN TO WATER CLOSET WITH SHOCK STOP. EXTEND 4" SAN TO W.C. FLANGE. EXTEND 2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
 3. 1/2" DCW AND 1/2" DHW DOWN IN WALL TO SINK/LAV. EXTEND 1-1/2" SAN TO LAV. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. INSTALL 1-1/2" SAN IN CEILING SPACE BELOW AND EXTEND UP IN WALL TO SINK. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
 4. EXTEND 1/2" DCW AND DHW PIPING TO SINK WITH BALL SHUTOFF VALVES. EXTEND 2" SAN PIPING TO SINK AND 1-1/2" VENT PIPING UP INTO CEILING SPACE. COORDINATE ROUGH IN AND FINAL CONNECTIONS. VALVES TO BE IN ACCESSIBLE LOCATIONS.
 5. 1/2" DCW AND 1/2" DHW DOWN IN WALL TO TUB/SHOWER. EXTEND 3" SAN TO TUB/SHOWER. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.

STATE OF OHIO
 C. J. SCHOOVER
 E-62197
 PROFESSIONAL ENGINEER

Chris Schommer 3/31/23
 SIGNATURE DATE

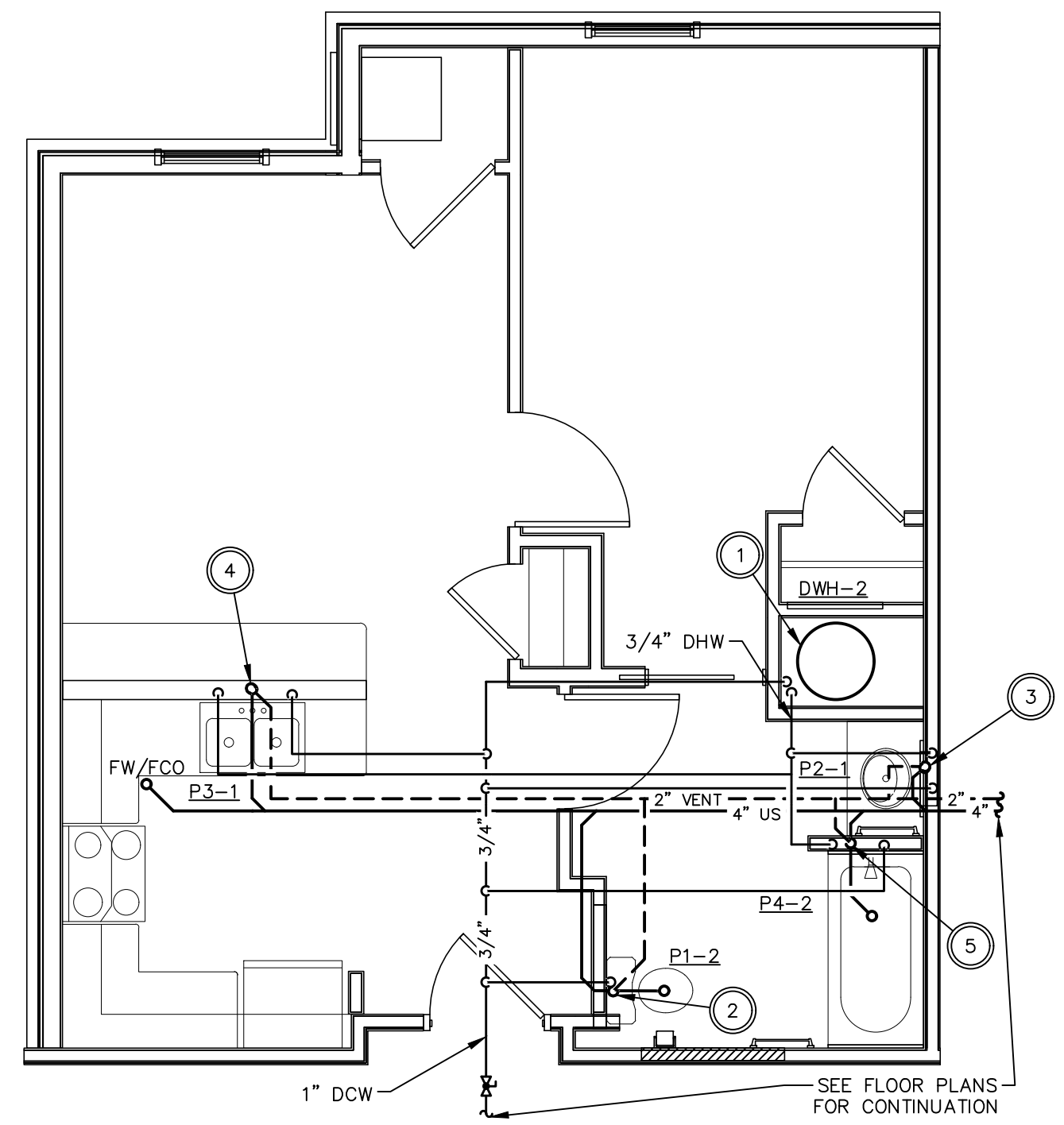
REVISIONS

NO.	DESCRIPTION



NEW WORK - ONE BEDROOM ADA - PLUMBING

0 4' 6' 8'
 SCALE



NEW WORK - ONE BEDROOM TYP. - PLUMBING

0 4' 6' 8'
 SCALE

TYPICAL ONE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



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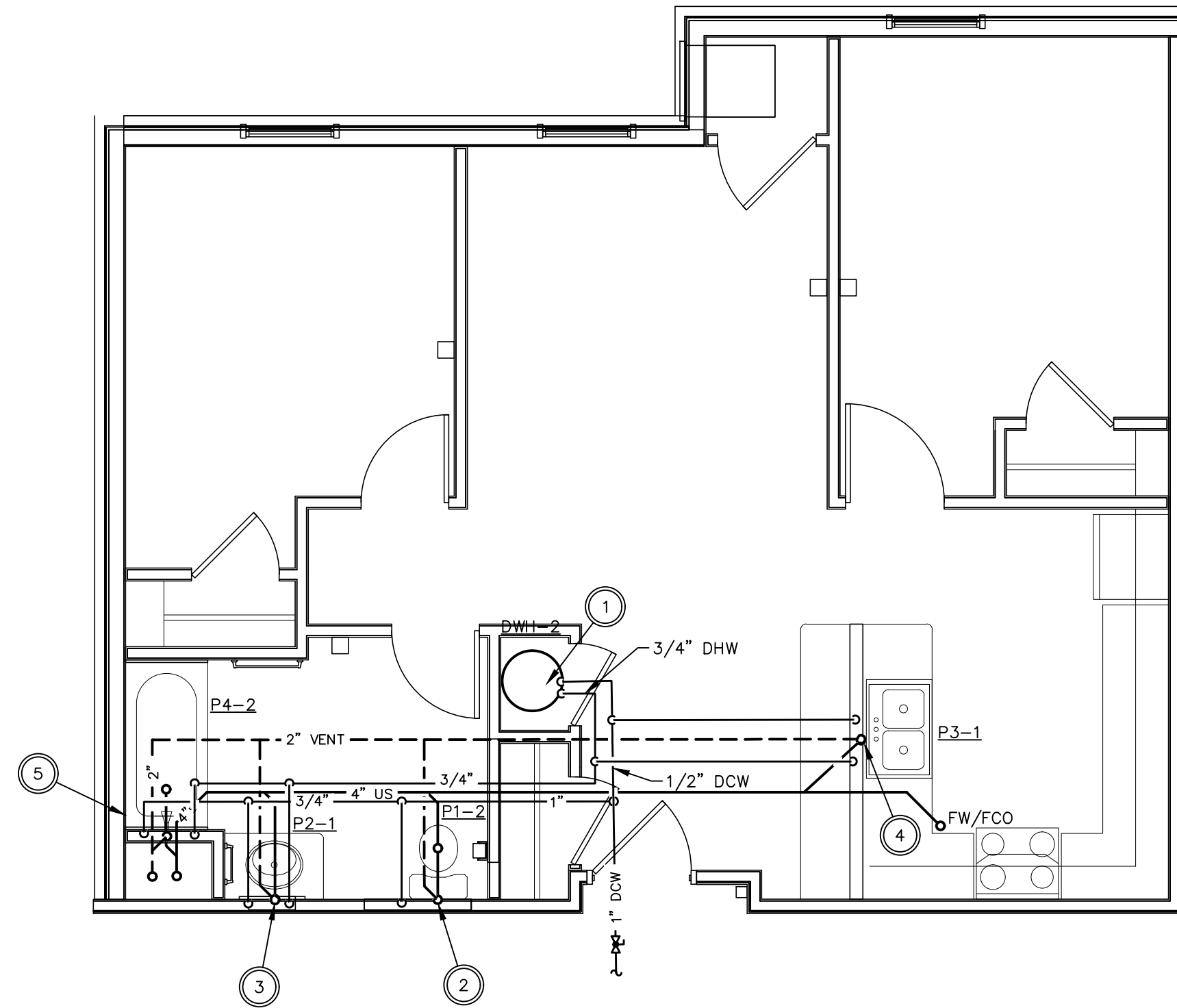
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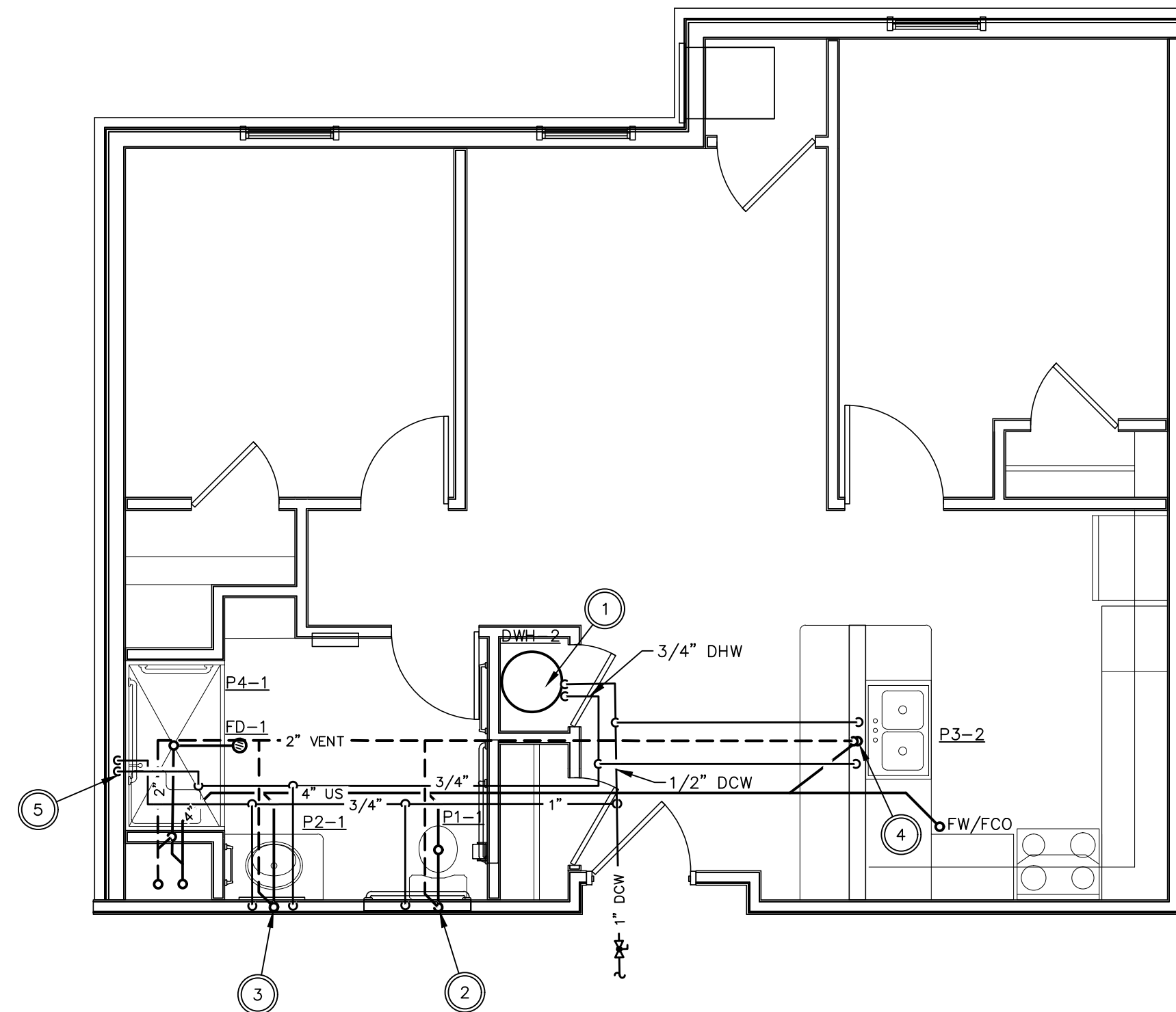
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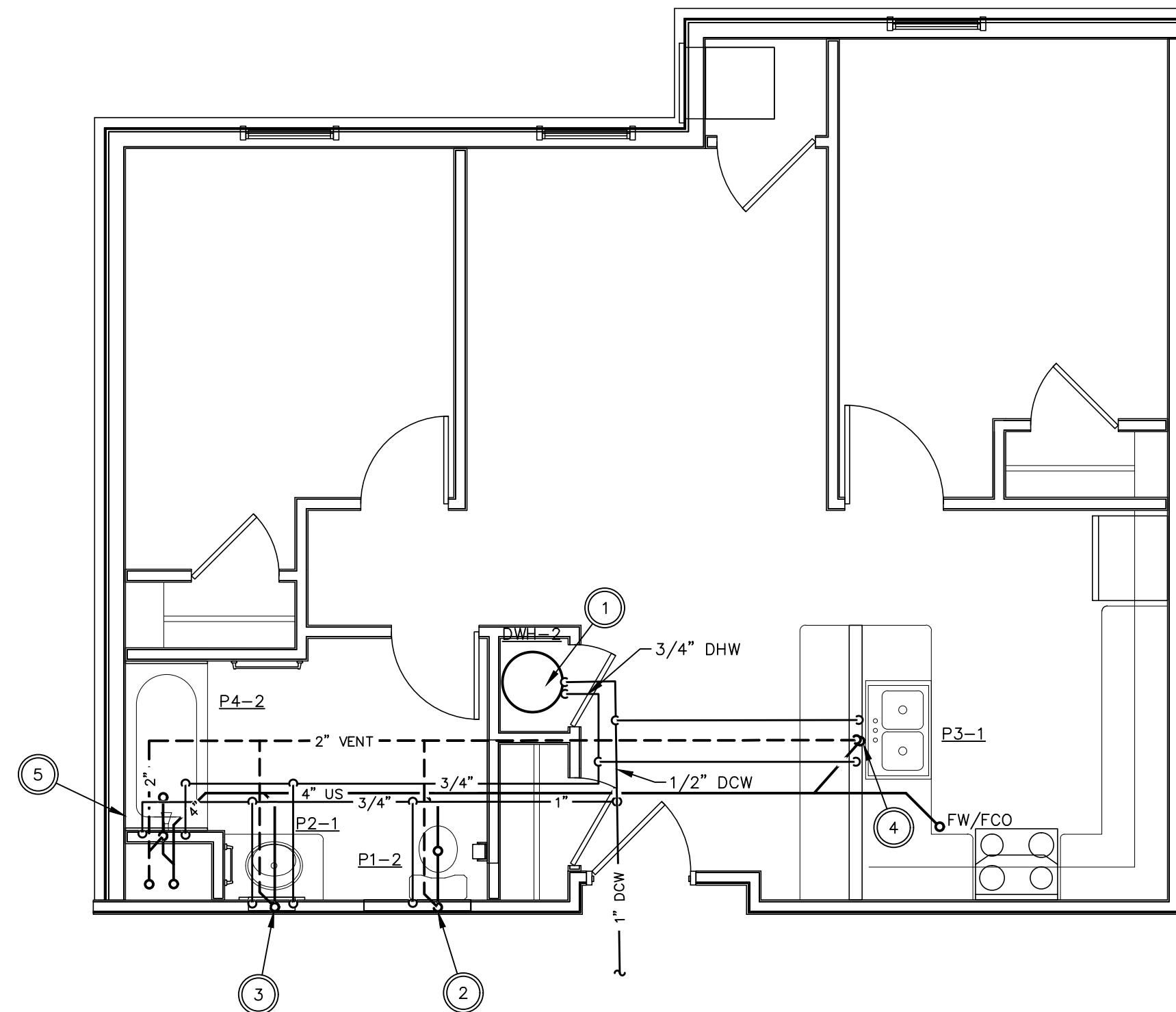
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NEW WORK - TWO BEDROOM S&H - PLUMBING



NEW WORK - TWO BEDROOM ADA - PLUMBING



NEW WORK - TWO BEDROOM TYP. - PLUMBING

PLAN NOTES

- SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
- SEE SHEET SET P10X FOR PLUMBING NEW WORK.
- SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
- SEE SHEET SET P30X FOR PLUMBING DETAILS.
- SEE SHEET P401 FOR PLUMBING ISOMETRICS.
- SEE SHEET P501 FOR WATER RISER DIAGRAMS.
- FINISHED FIRST FLOOR NEW ADDITION ELEVATION=1000.00 FOR REFERENCE ONLY.

CODED NOTES

- SIMPLEX DOMESTIC HOT WATER HEATER. SEE "ELECTRIC WATER HEATER SCHEMATIC". HOT WATER EXPANSION TANK TO BE MOUNTED FROM STRUCTURE ABOVE. ROUTE DRAIN LINE TO NEAREST SANITARY MAIN.
- 1/2" DCW PIPING DOWN TO WATER CLOSET WITH SHOCK STOP. EXTEND 4" SAN TO W.C. FLANGE. EXTEND 2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
- 1/2" DCW AND 1/2" DHW DOWN IN WALL TO SINK/LAV. EXTEND 1-1/2" SAN TO LAV. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
- EXTEND 1/2" DCW AND DHW PIPING TO SINK WITH BALL SHUTOFF VALVES. EXTEND 2" SAN PIPING TO SINK AND 1-1/2" VENT PIPING UP INTO CEILING SPACE. COORDINATE ROUGH IN AND FINAL CONNECTIONS. VALVES TO BE IN ACCESSIBLE LOCATIONS.
- 1/2" DCW AND 1/2" DHW DOWN IN WALL TO TUB/SHOWER. EXTEND 3" SAN TO TUB/SHOWER. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.



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REVISIONS

NO.	DESCRIPTION

TYPICAL TWO BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



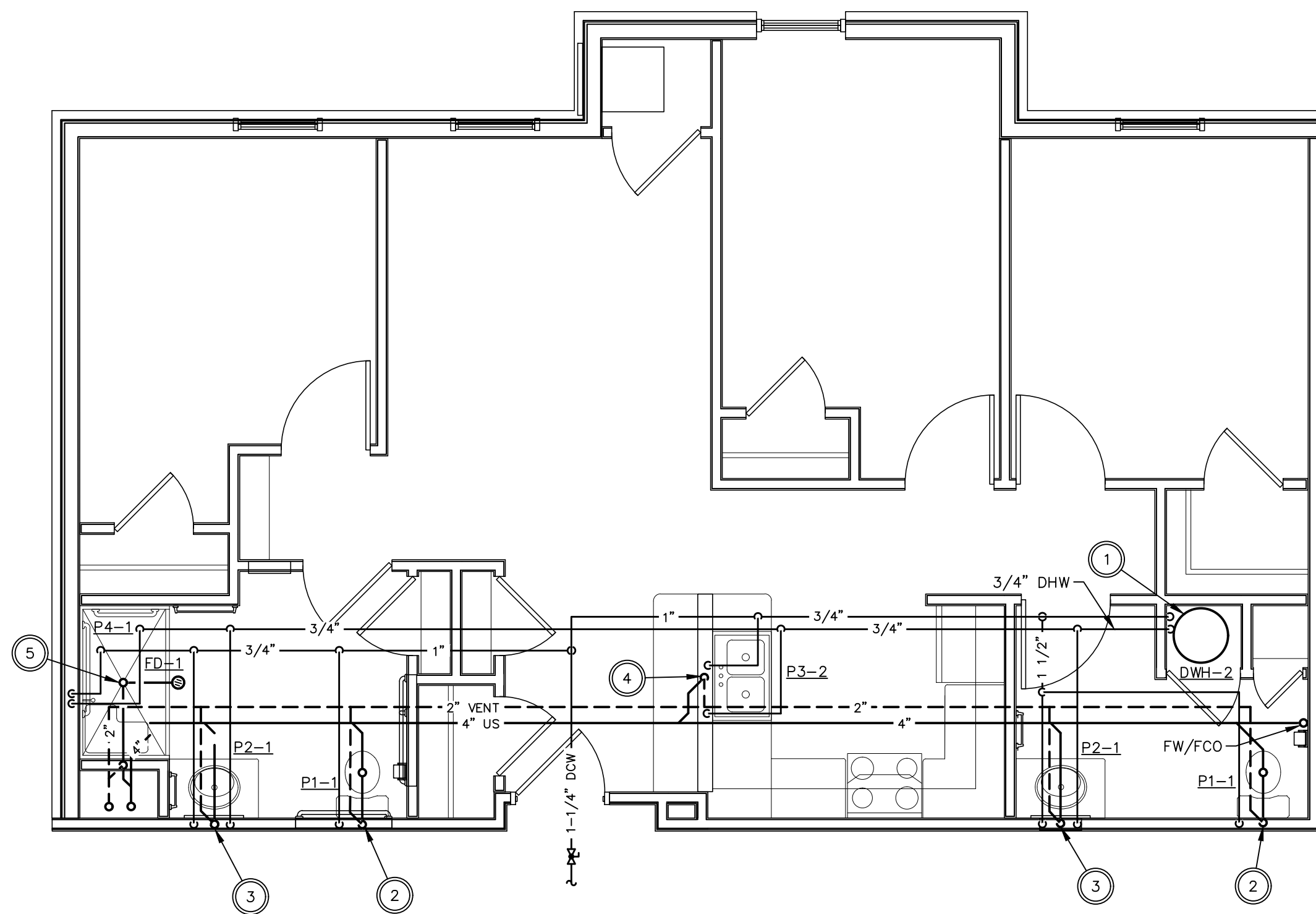
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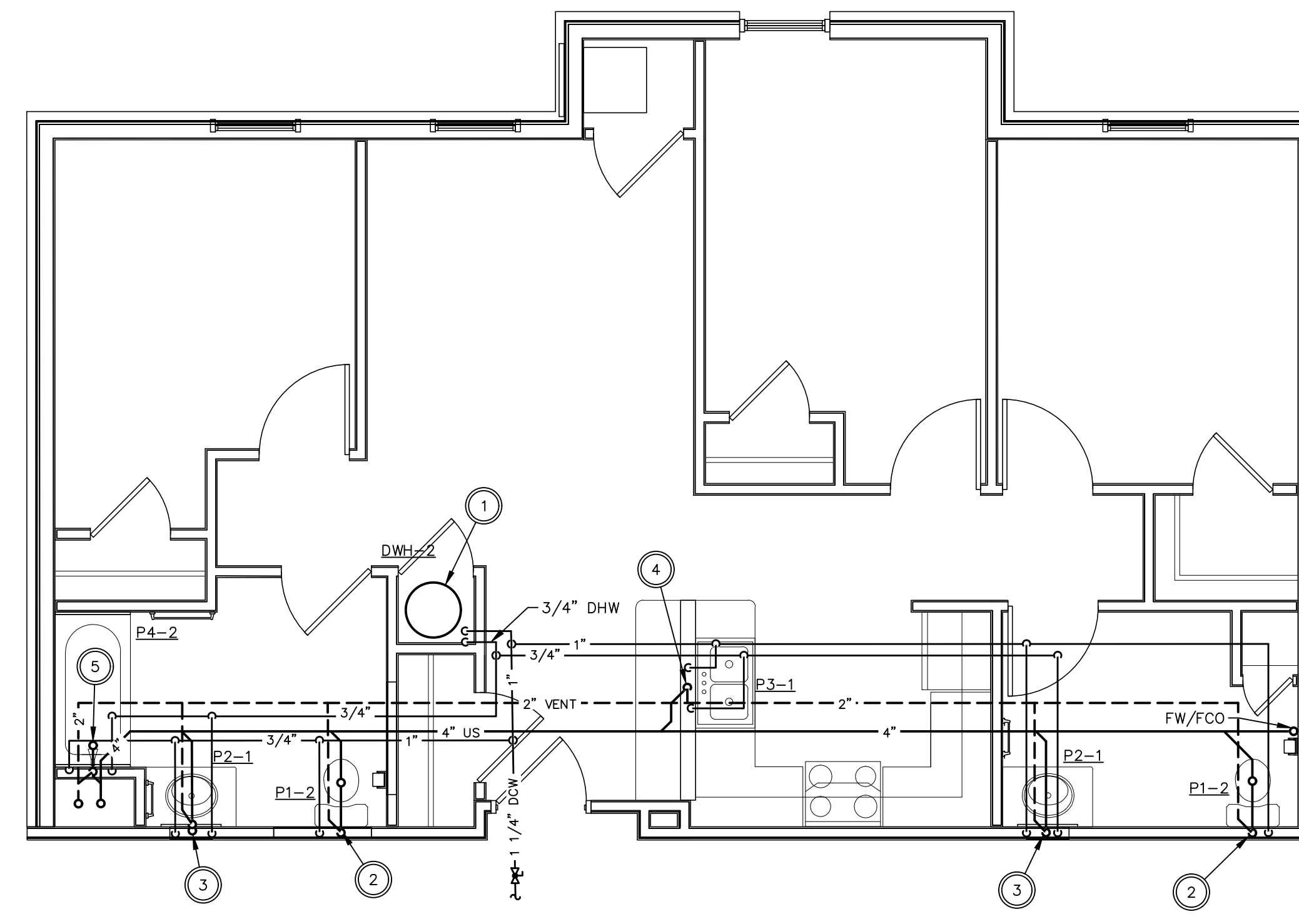
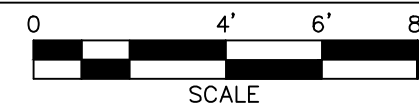
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P202
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NEW WORK - THREE BEDROOM ADA - PLUMBING



NEW WORK - THREE BEDROOM TYP. - PLUMBING



PLAN NOTES

- A. SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
- B. SEE SHEET SET P10X FOR PLUMBING NEW WORK.
- C. SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
- D. SEE SHEET SET P30X FOR PLUMBING DETAILS.
- E. SEE SHEET P401 FOR PLUMBING ISOMETRICS.
- F. SEE SHEET P501 FOR WATER RISER DIAGRAMS.
- G. FINISHED FIRST FLOOR NEW ADDITION ELEVATION=1000.00 FOR REFERENCE ONLY.

CODED NOTES

- 1. SIMPLEX DOMESTIC HOT WATER HEATER. SEE "ELECTRIC WATER HEATER SCHEMATIC". HOT WATER EXPANSION TANK TO BE MOUNTED FROM STRUCTURE ABOVE.
- 2. 1/2" DCW PIPING DOWN TO WATER CLOSET WITH SHOCK STOP. EXTEND 4" SAN TO W.C. FLANGE. EXTEND 2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
- 3. 1/2" DCW AND 1/2" DHW DOWN IN WALL TO SINK/LAV. EXTEND 1-1/2" SAN TO LAV. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. INSTALL 1-1/2" SAN IN CEILING SPACE BELOW AND EXTEND UP IN WALL TO SINK. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.
- 4. EXTEND 1/2" DCW AND DHW PIPING TO SINK WITH BALL SHUTOFF VALVES. EXTEND 2" SAN PIPING TO SINK AND 1-1/2" VENT PIPING UP INTO CEILING SPACE. COORDINATE ROUGH IN AND FINAL CONNECTIONS. VALVES TO BE IN ACCESSIBLE LOCATIONS.
- 5. 1/2" DCW AND 1/2" DHW DOWN IN WALL TO TUB/SHOWER. EXTEND 3" SAN TO TUB/SHOWER. EXTEND 1-1/2" VENT UP IN WALL TO CEILING SPACE. TYPICAL.



Chief Schwabenc 3/31/23
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REVISIONS

TYPICAL THREE BEDROOM PLANS

GERMANTOWN CROSSING
DAYTON OHIO



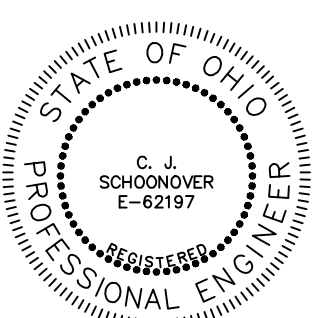
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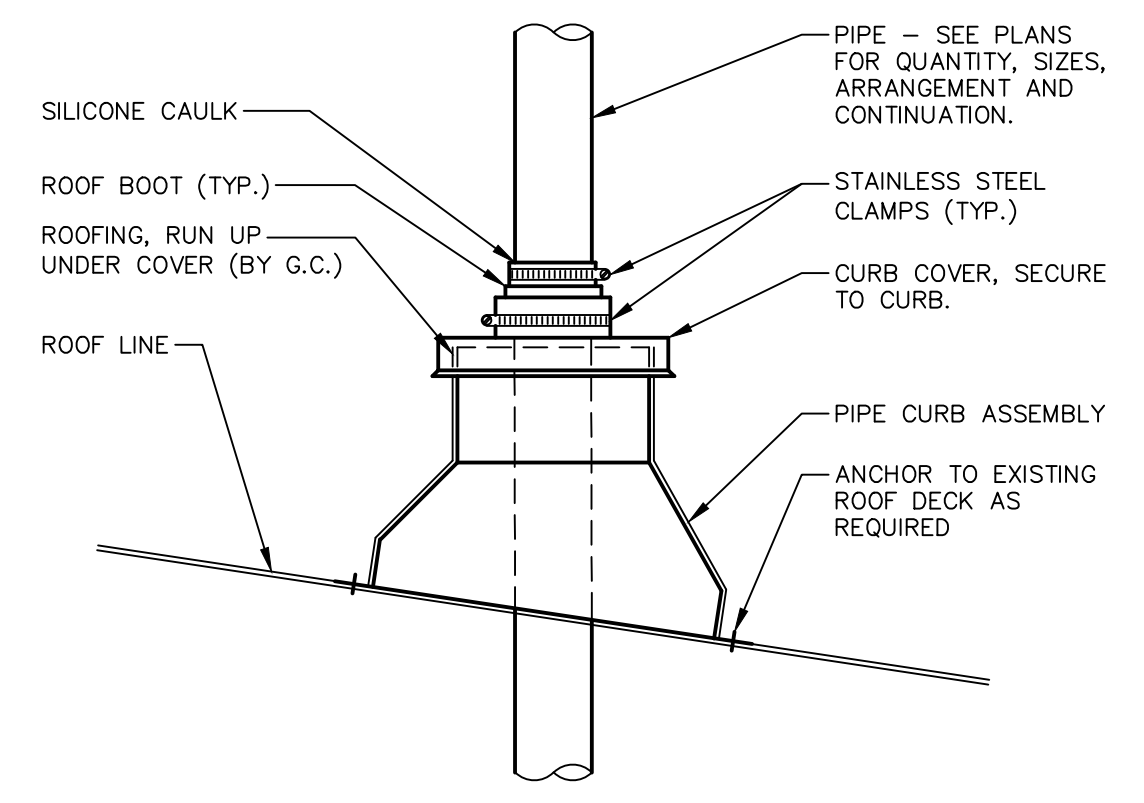
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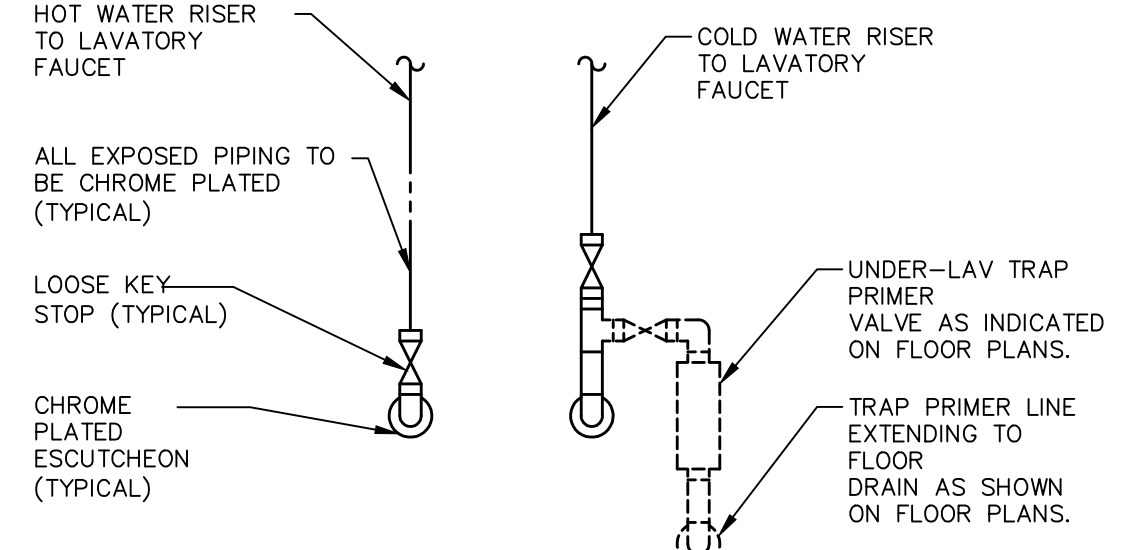


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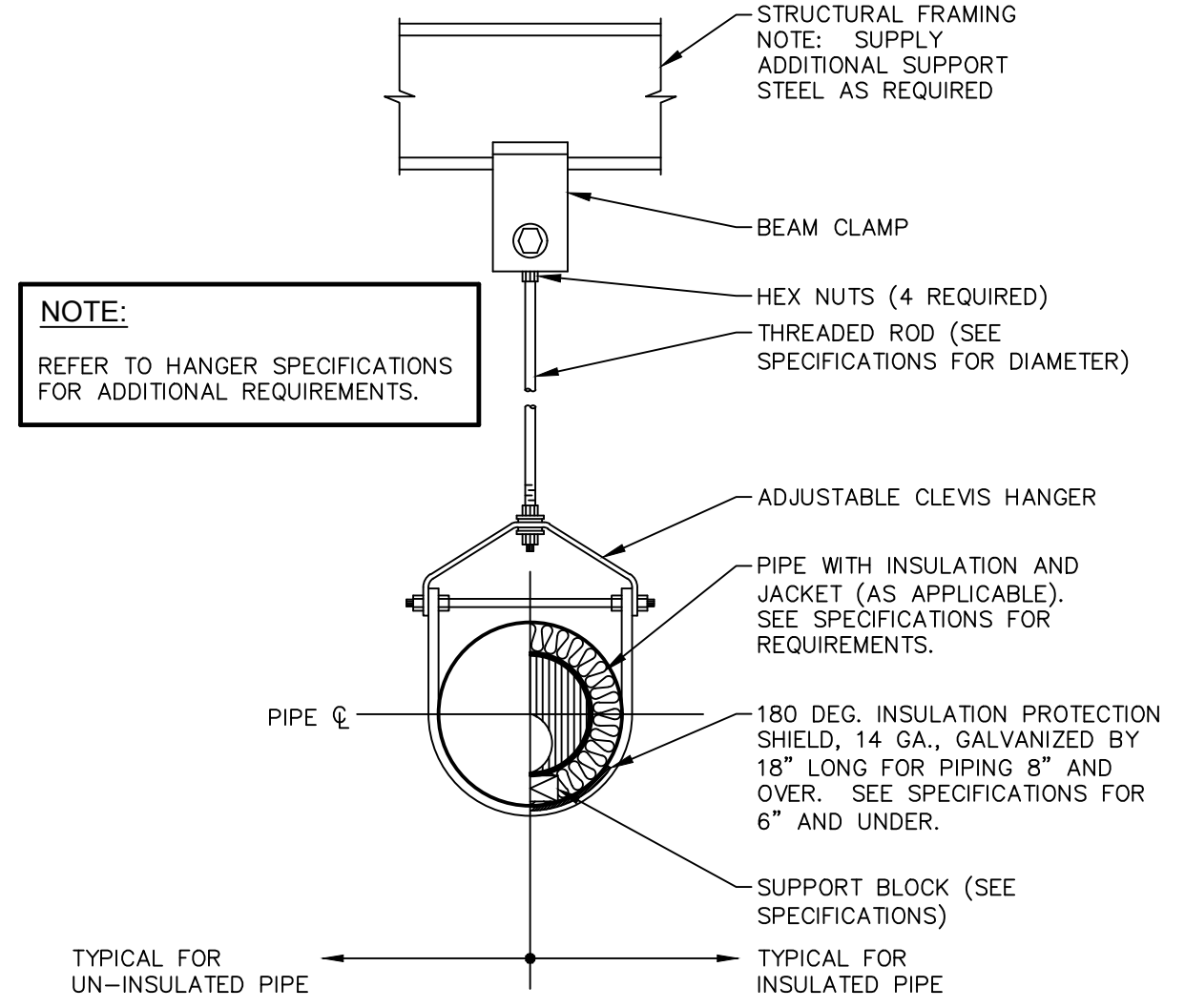
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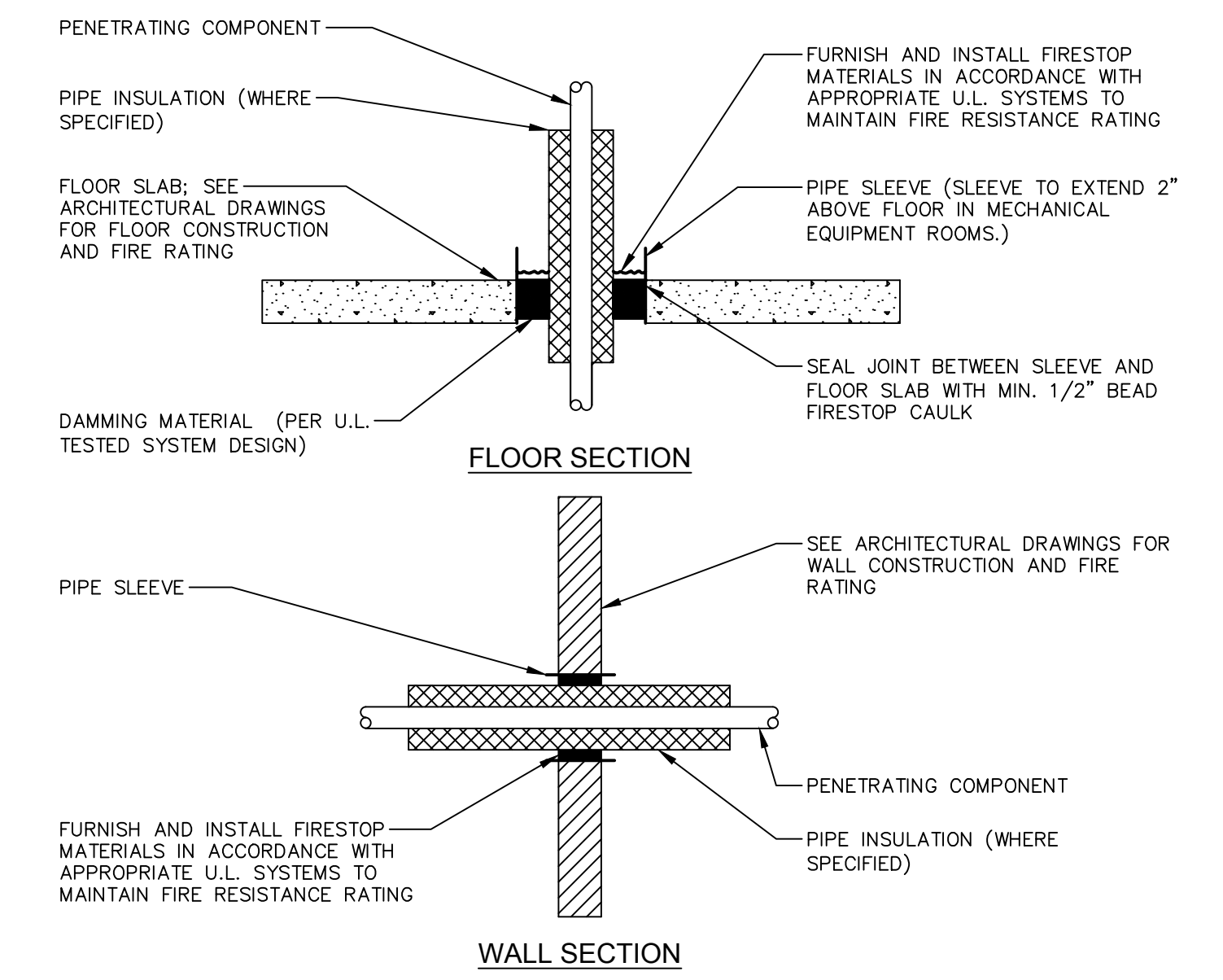
(SLOPED ROOF)
VENT PIPE CURB DETAIL
N.T.S.



TYPICAL PRIVATE LAVATORY DETAIL
N.T.S.

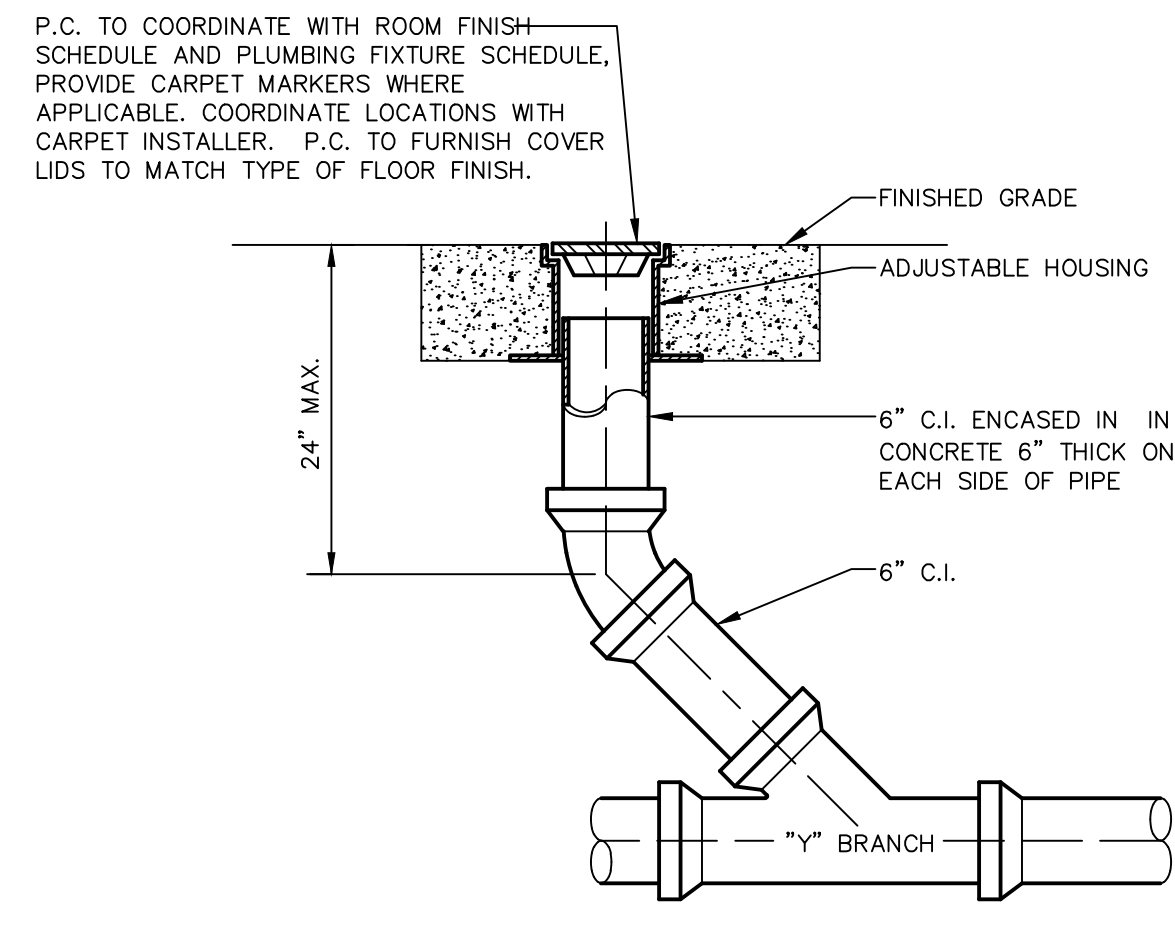


CLEVIS HANGER PIPE SUPPORT
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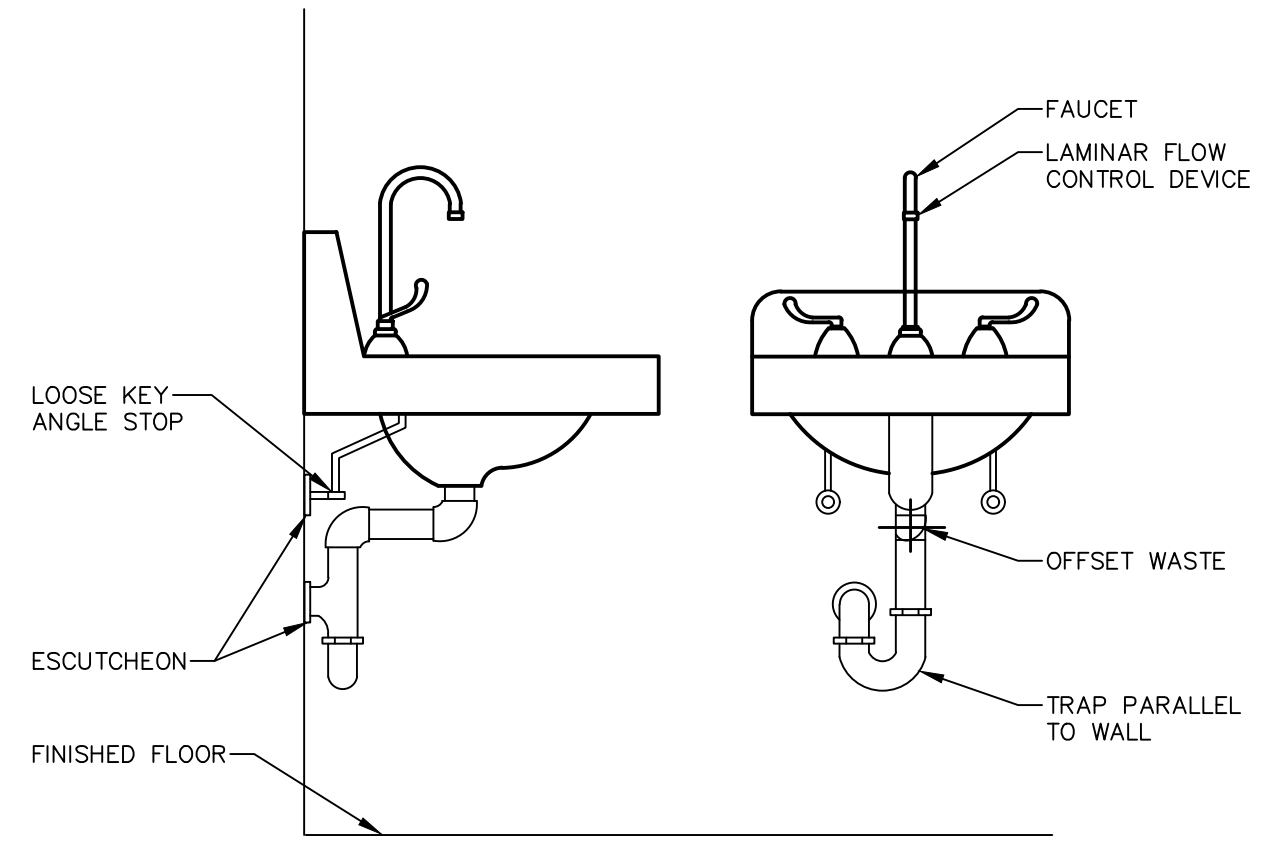


- NOTES:**
- WHERE PIPES, DUCTS AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
 - GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
 - FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
 - THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
 - CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ARCHITECT, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
 - THE FIRESTOPPING SYSTEMS ARE TO BE INSTALLED BY EXPERIENCED, MANUFACTURER TRAINED, AND UL CERTIFIED OR FM CERTIFIED PERSONNEL.
 - ALL FIRESTOPPING MATERIAL IS TO BE PROVIDED FROM A SINGLE MANUFACTURER FOR ALL APPLICATIONS.
 - CONTRACTOR SHALL CONSULT MANUFACTURER'S TECHNICAL EXPERTS FOR ASSISTANCE IN SELECTING APPROPRIATE FIRESTOPPING SYSTEM FOR EACH APPLICATION.

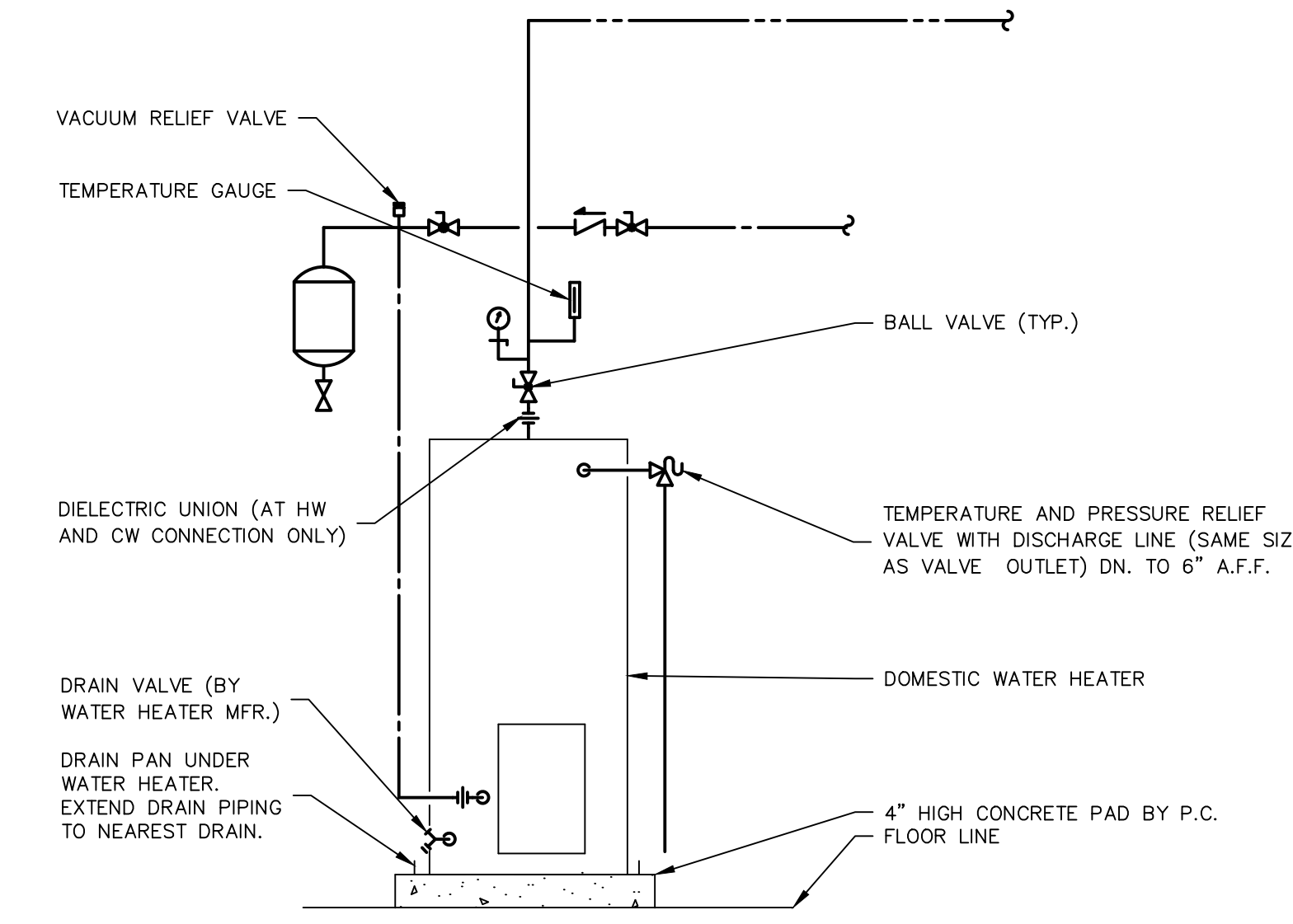
FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTIONS
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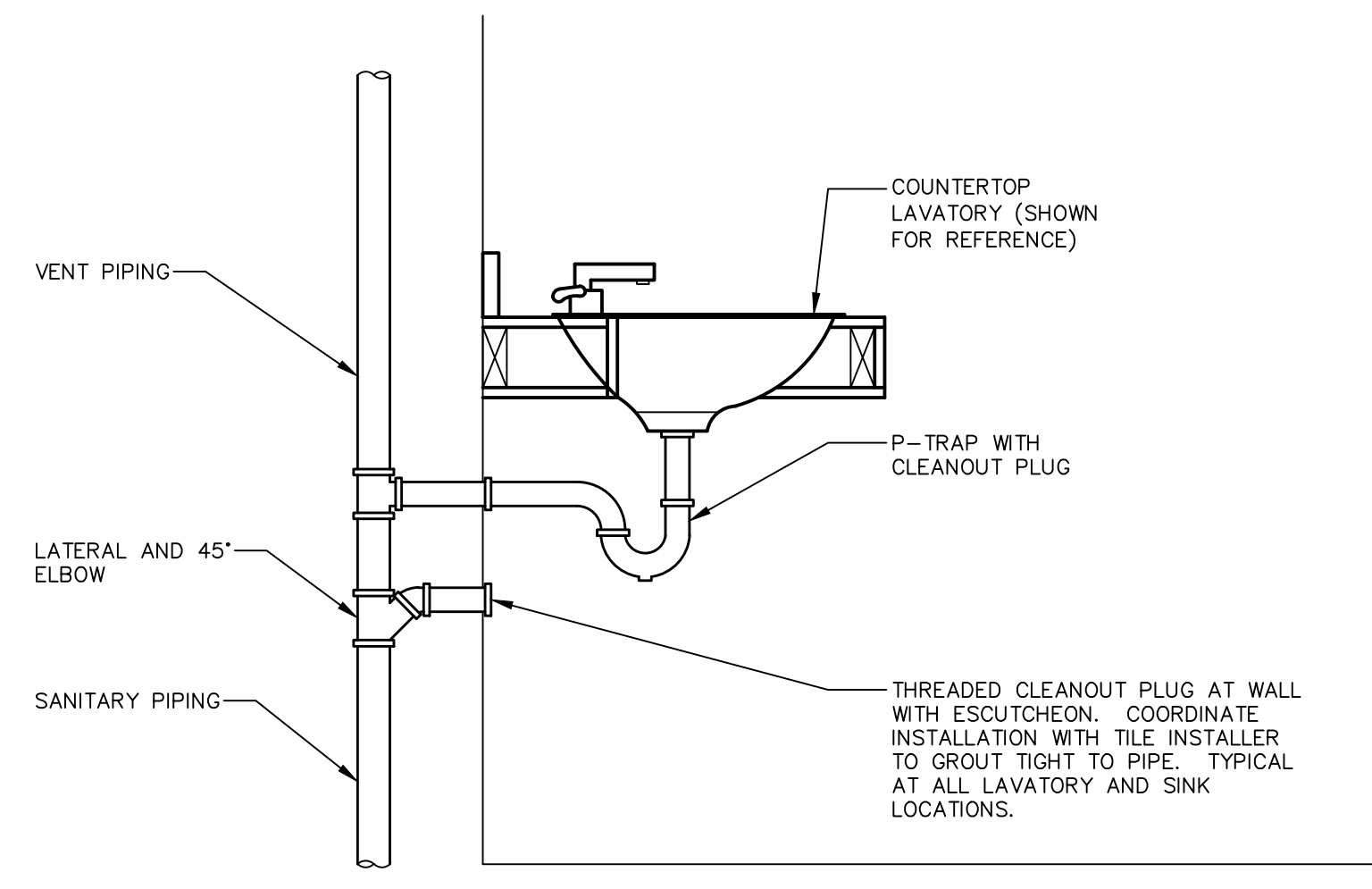
INTERIOR DRAIN CLEANOUT DETAIL
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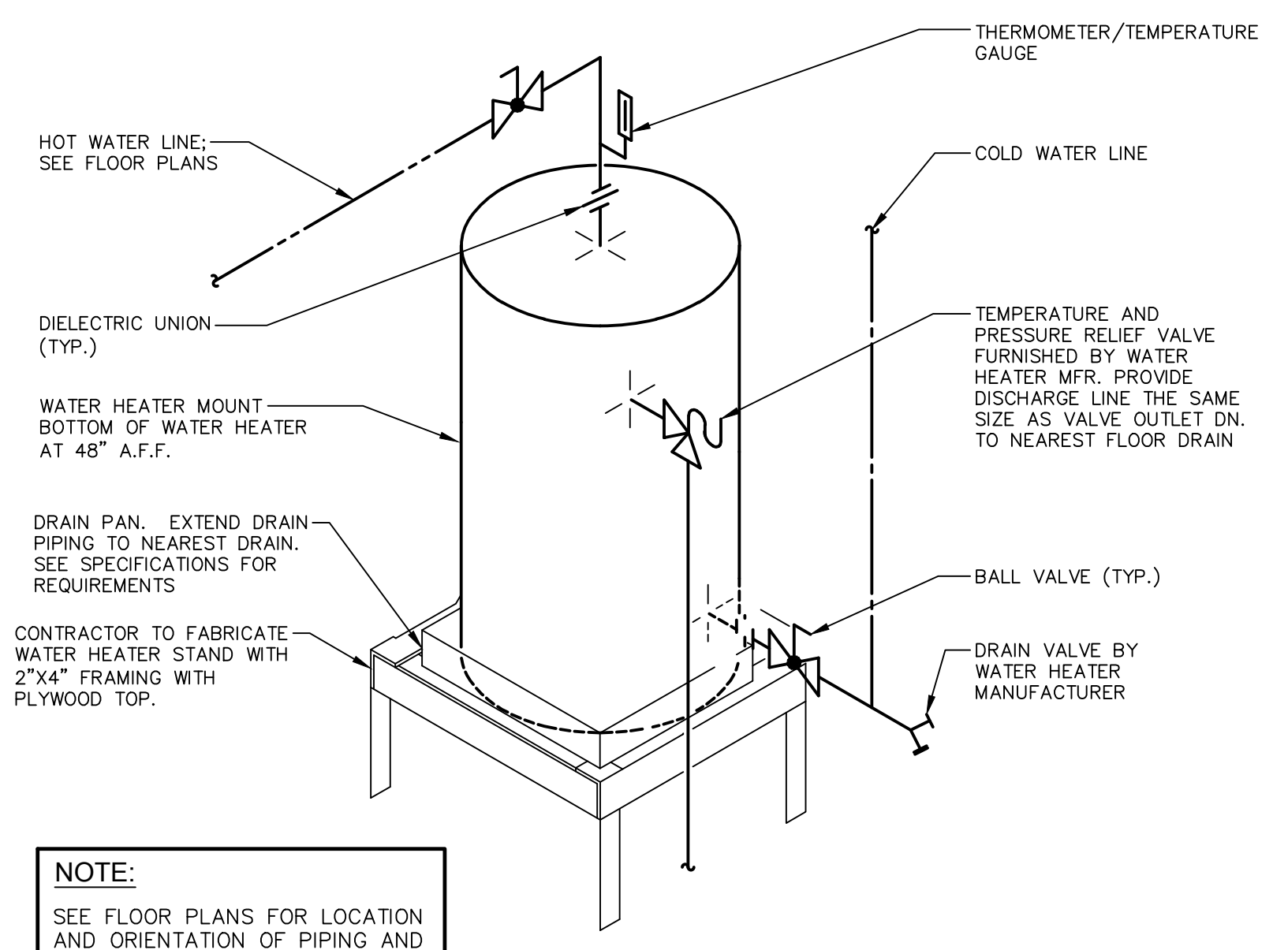
TYPICAL WHEELCHAIR LAVATORY DETAIL
N.T.S.



DOMESTIC ELECTRIC WATER HEATER SCHEMATIC
N.T.S.



TYPICAL LAVATORY CLEANOUT DETAIL
N.T.S.



NOTE:
SEE FLOOR PLANS FOR LOCATION AND ORIENTATION OF PIPING AND EQUIPMENT.

WALL SUPPORTED ELECTRIC WATER HEATER
N.T.S.

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PLUMBING DETAILS
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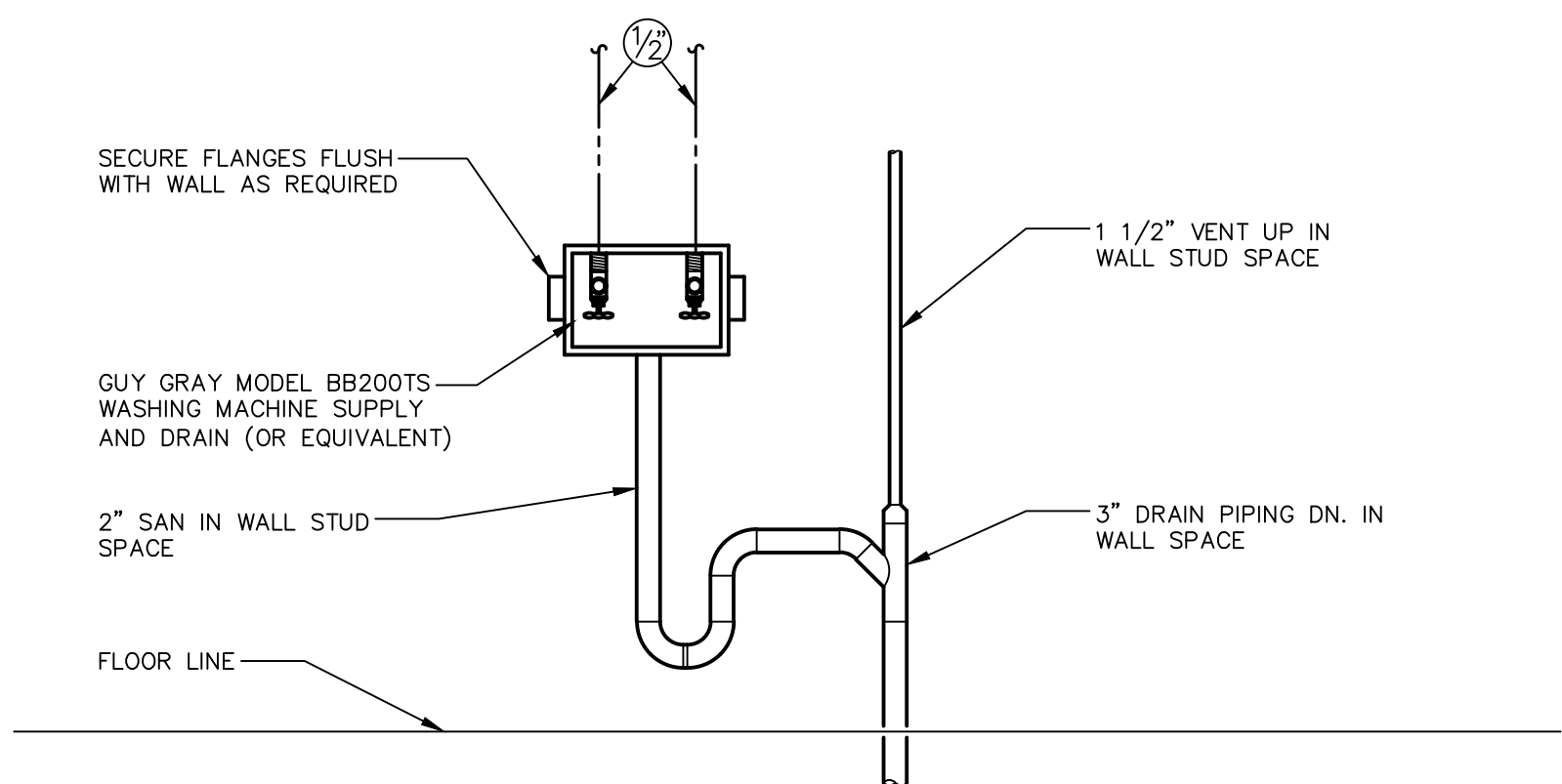
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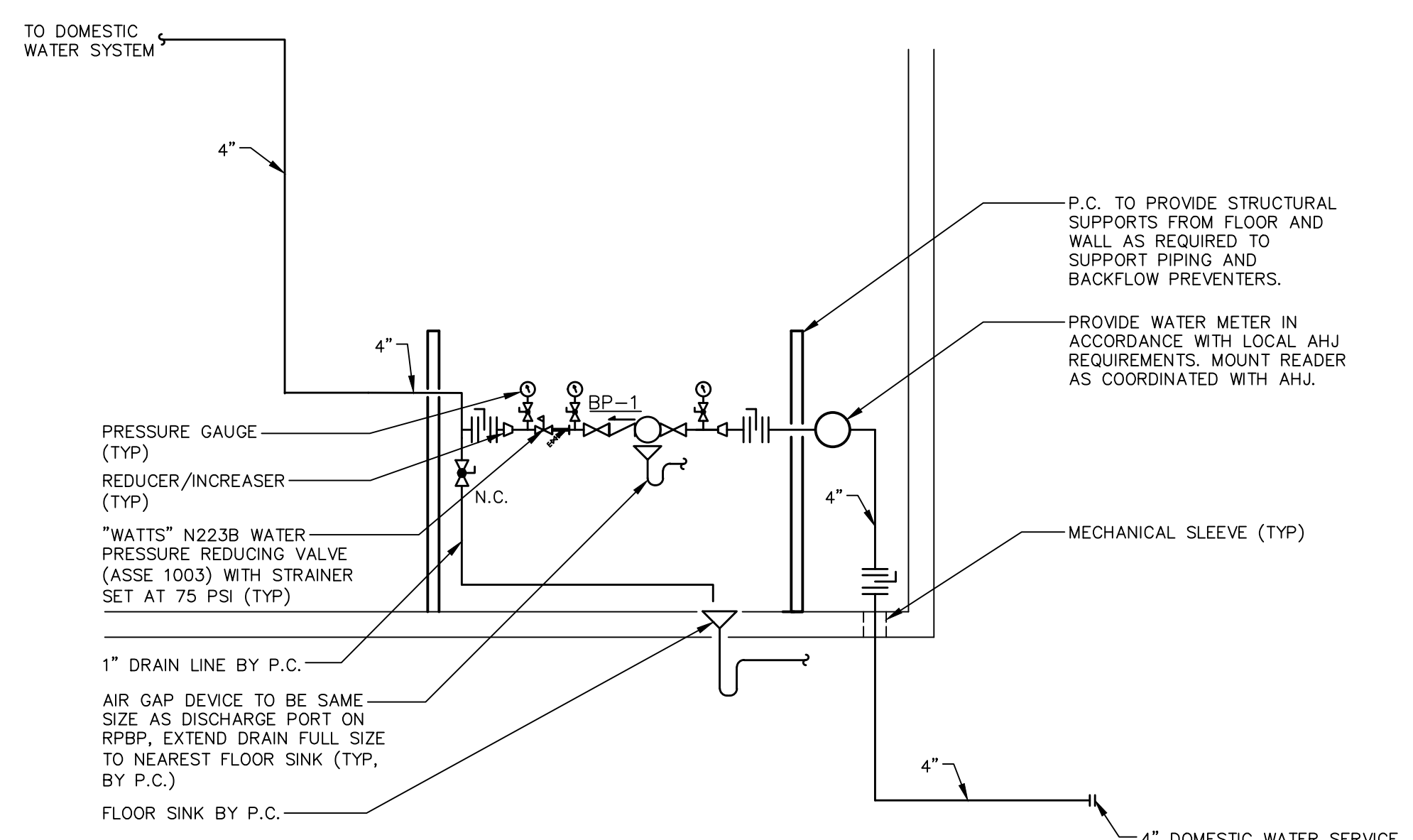
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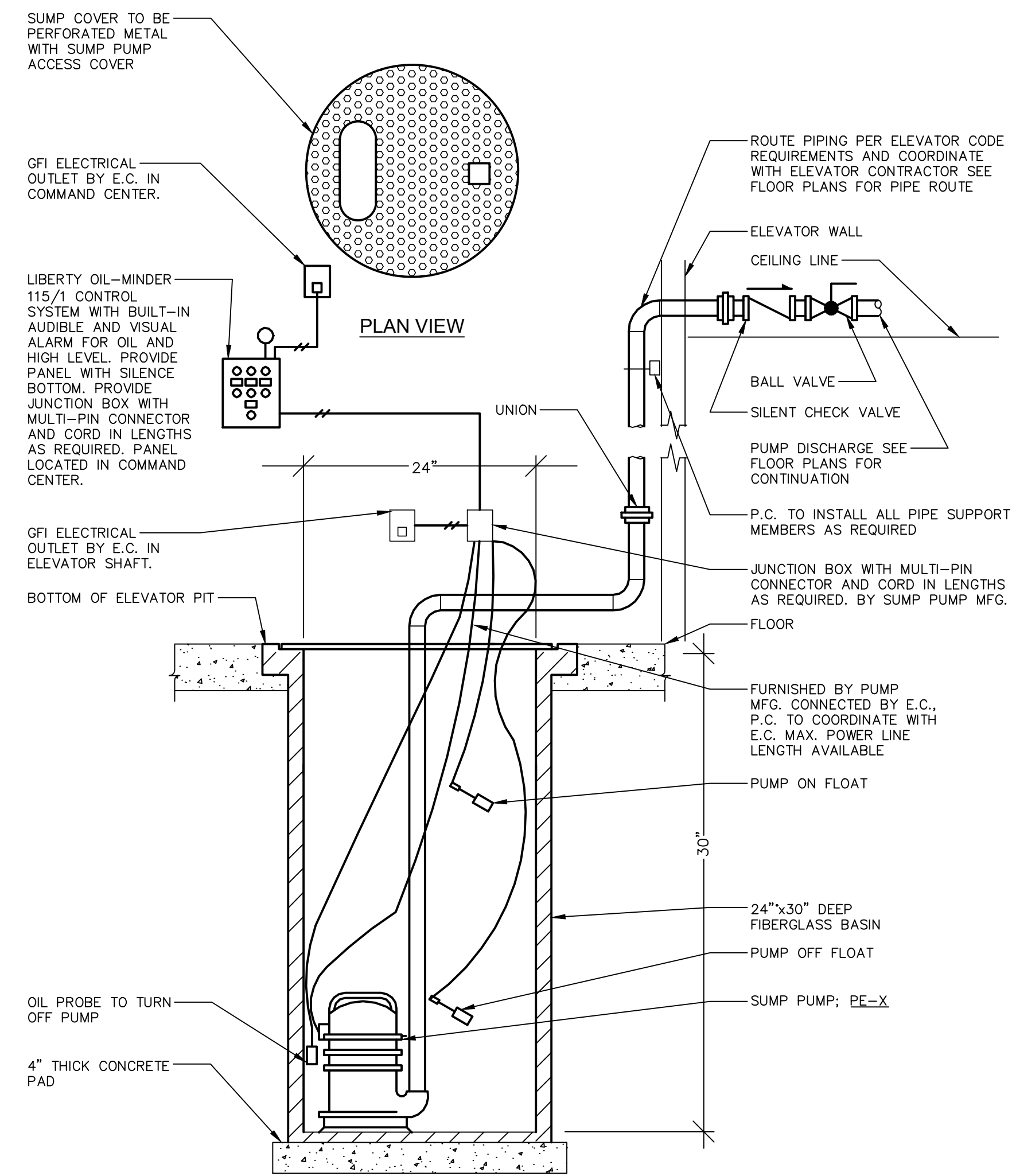
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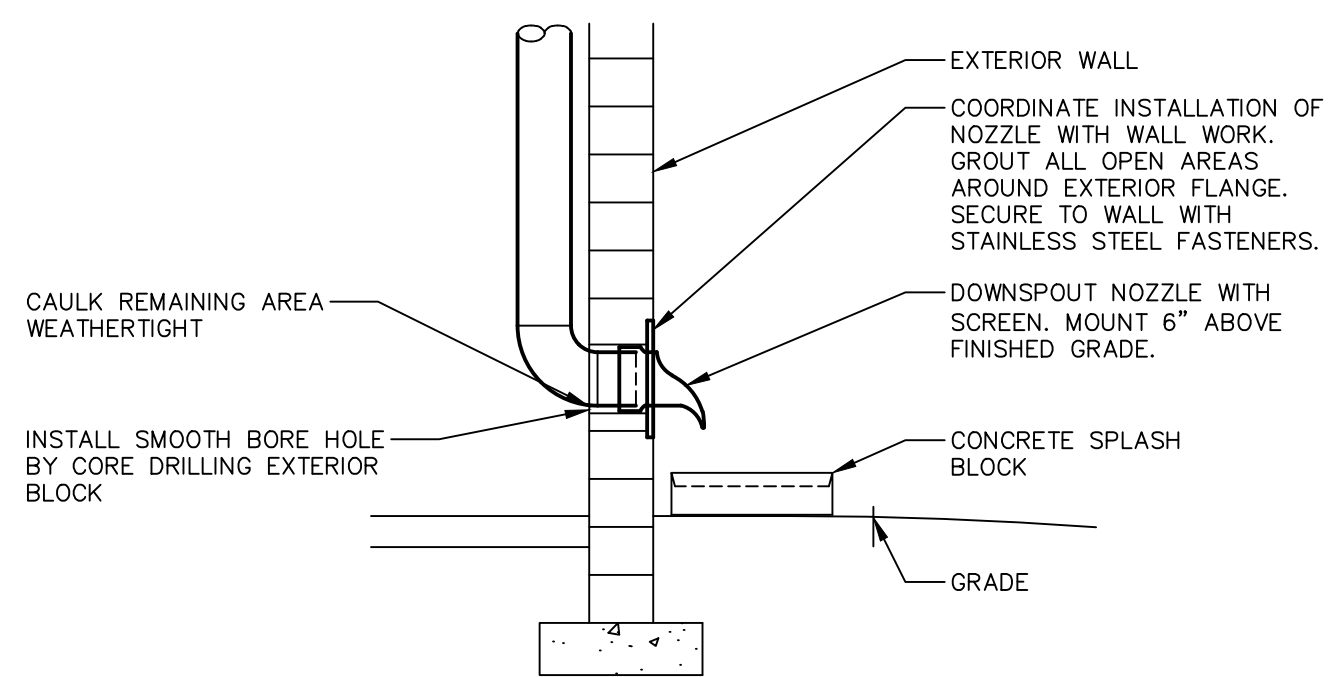
WATER SERVICE ENTRY DETAIL

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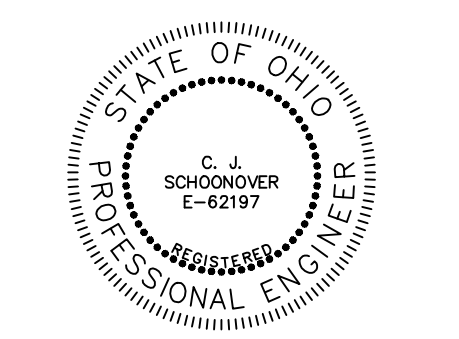
ELEVATOR SUMP PUMP

N.T.S.



DOWNSPOUT NOZZLE DETAIL

N.T.S.



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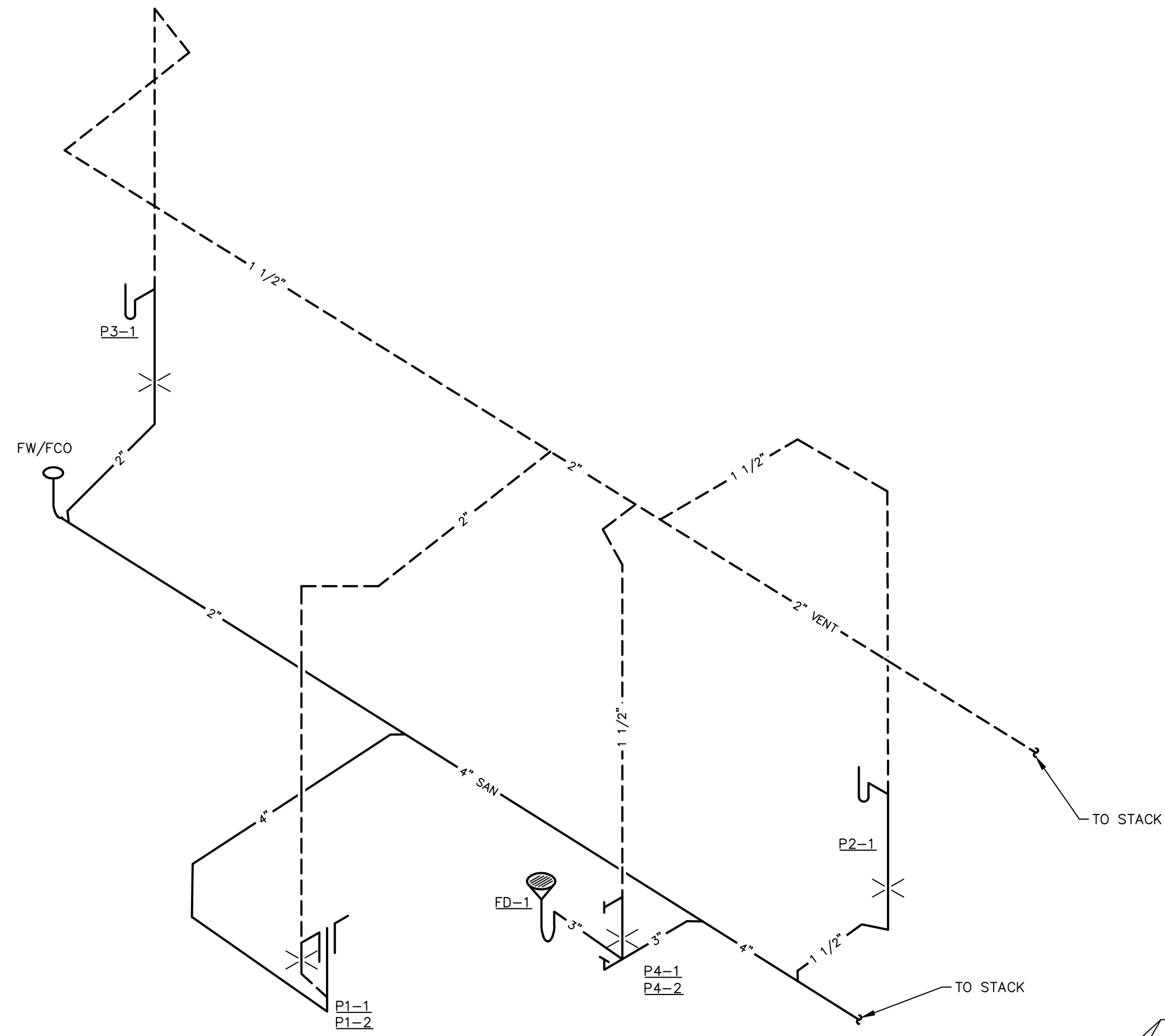
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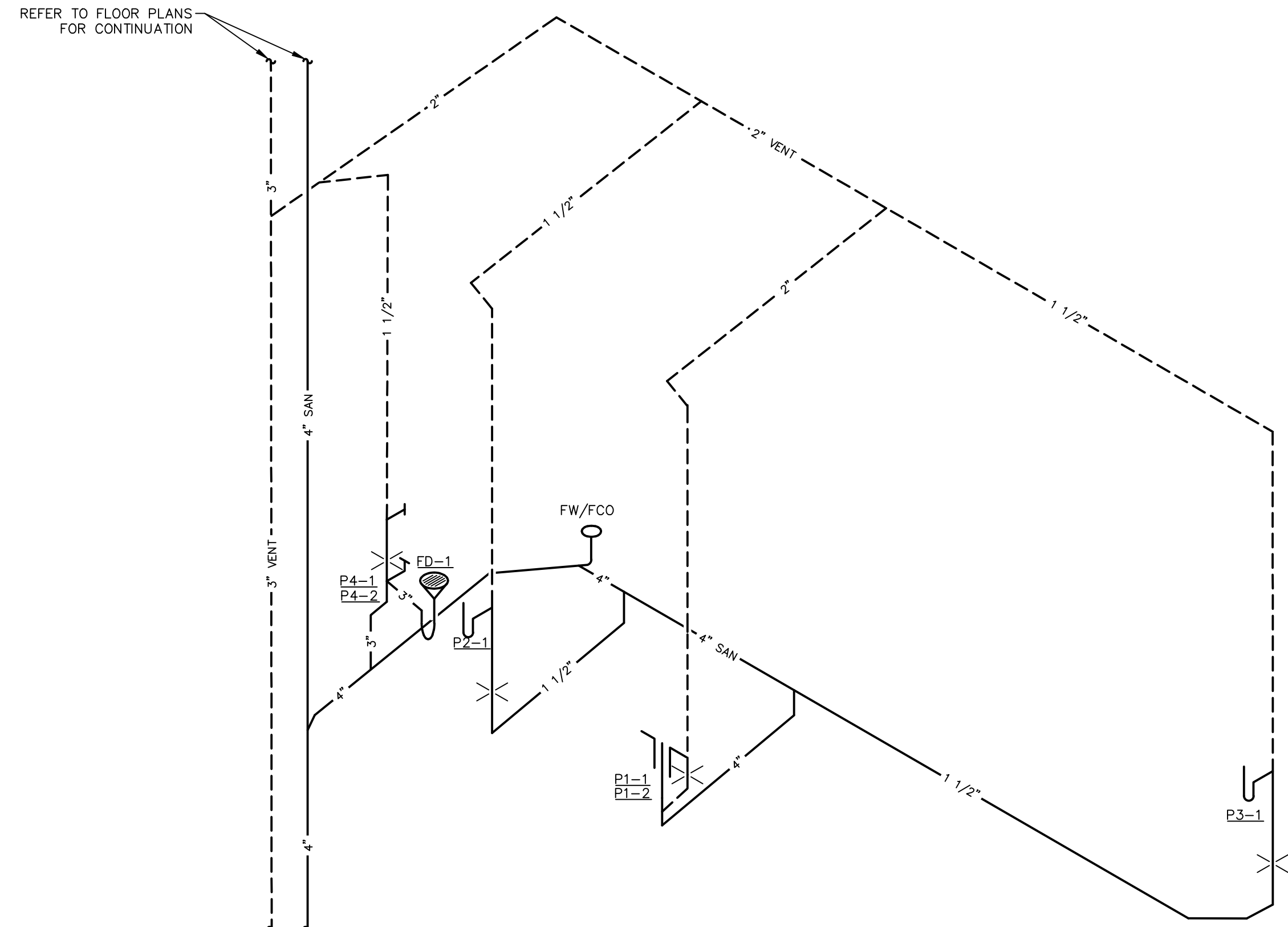
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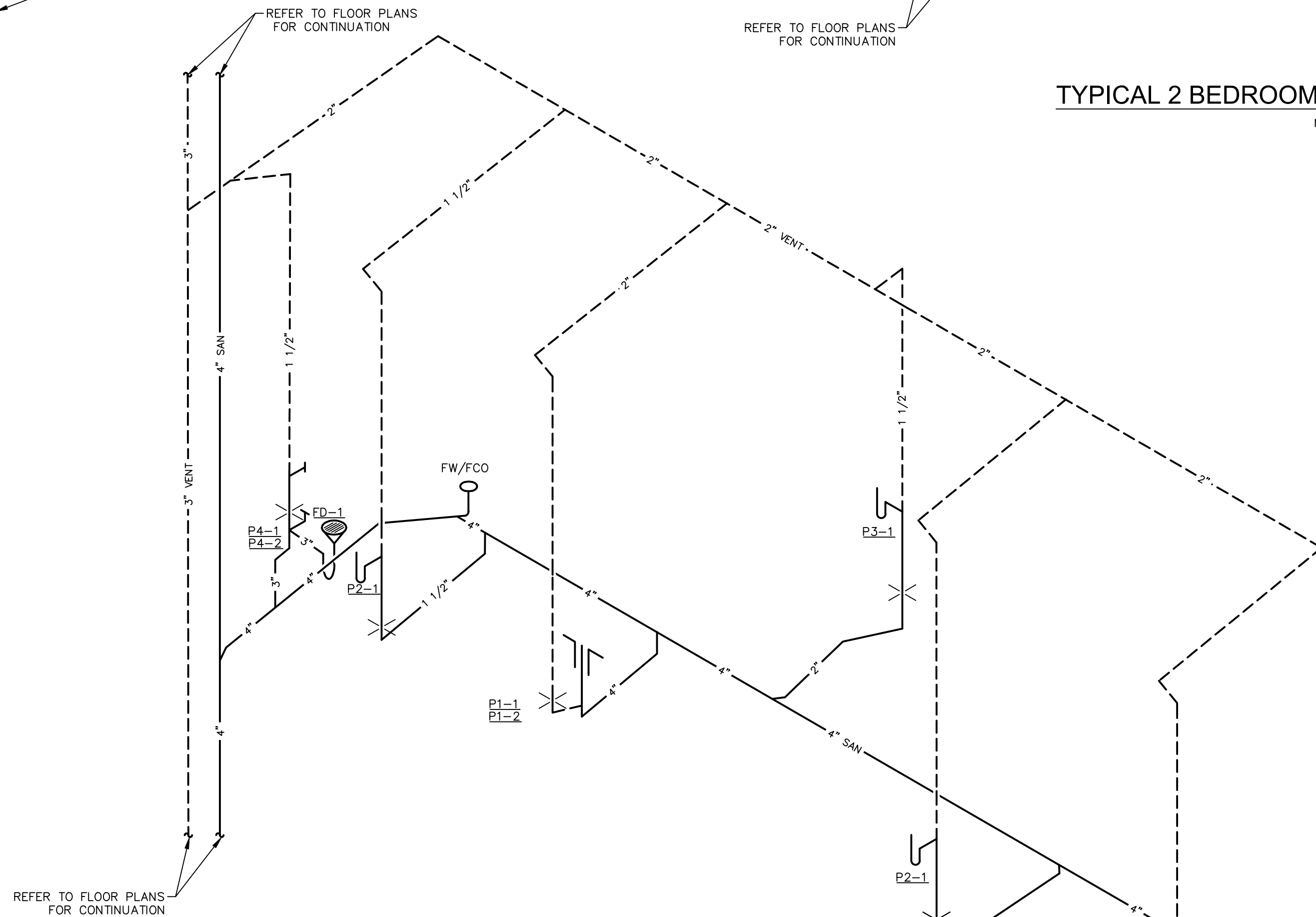
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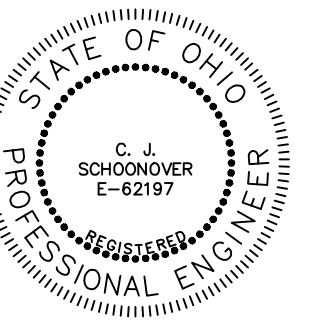
TYPICAL 1 BEDROOM PLUMBING ISOMETRIC
N.T.S.



TYPICAL 2 BEDROOM PLUMBING ISOMETRIC
N.T.S.



TYPICAL 3 BEDROOM PLUMBING ISOMETRIC
N.T.S.



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82A21
PROJECT NUMBER

P401
DRAWING NUMBER

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STATE OF OHIO
C. J. SCHONOVER
E-62197
PROFESSIONAL ENGINEER

Chief Schwabenc 3/31/23
SIGNATURE DATE

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FIRST FLOOR PLAN - FIRE SUPP.
GERMANTOWN CROSSING
DAYTON OHIO



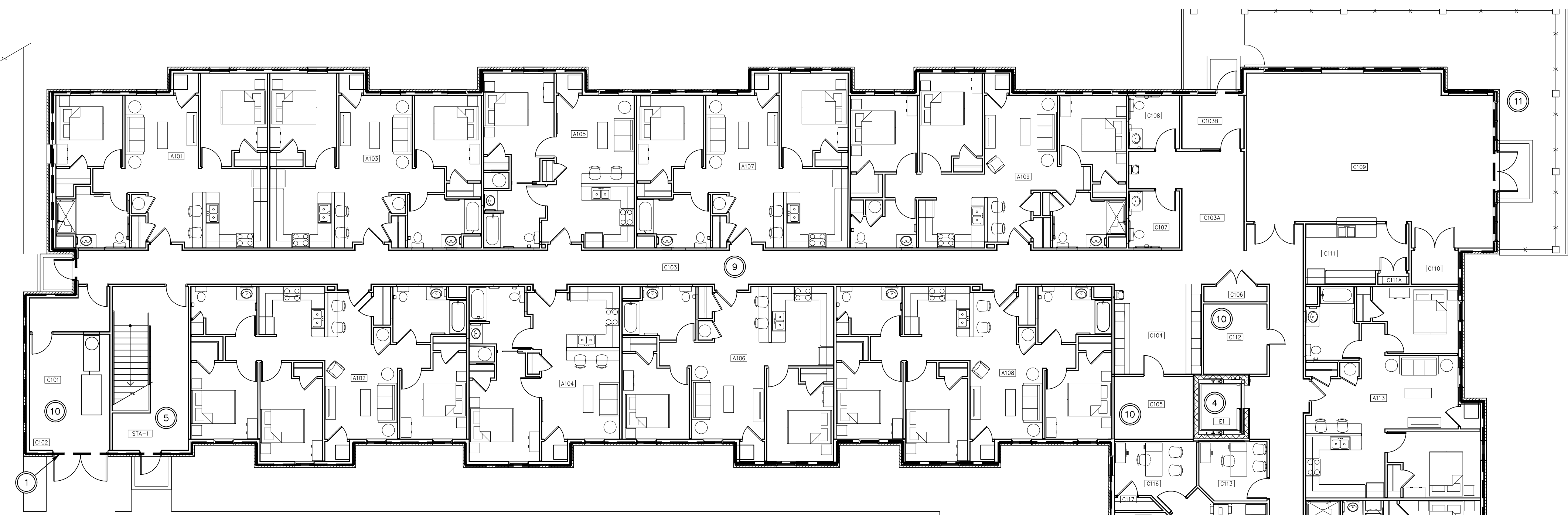
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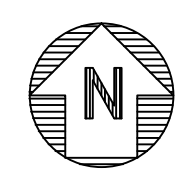
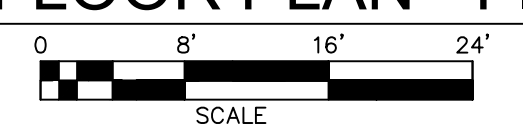


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	ELEV. MECH	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

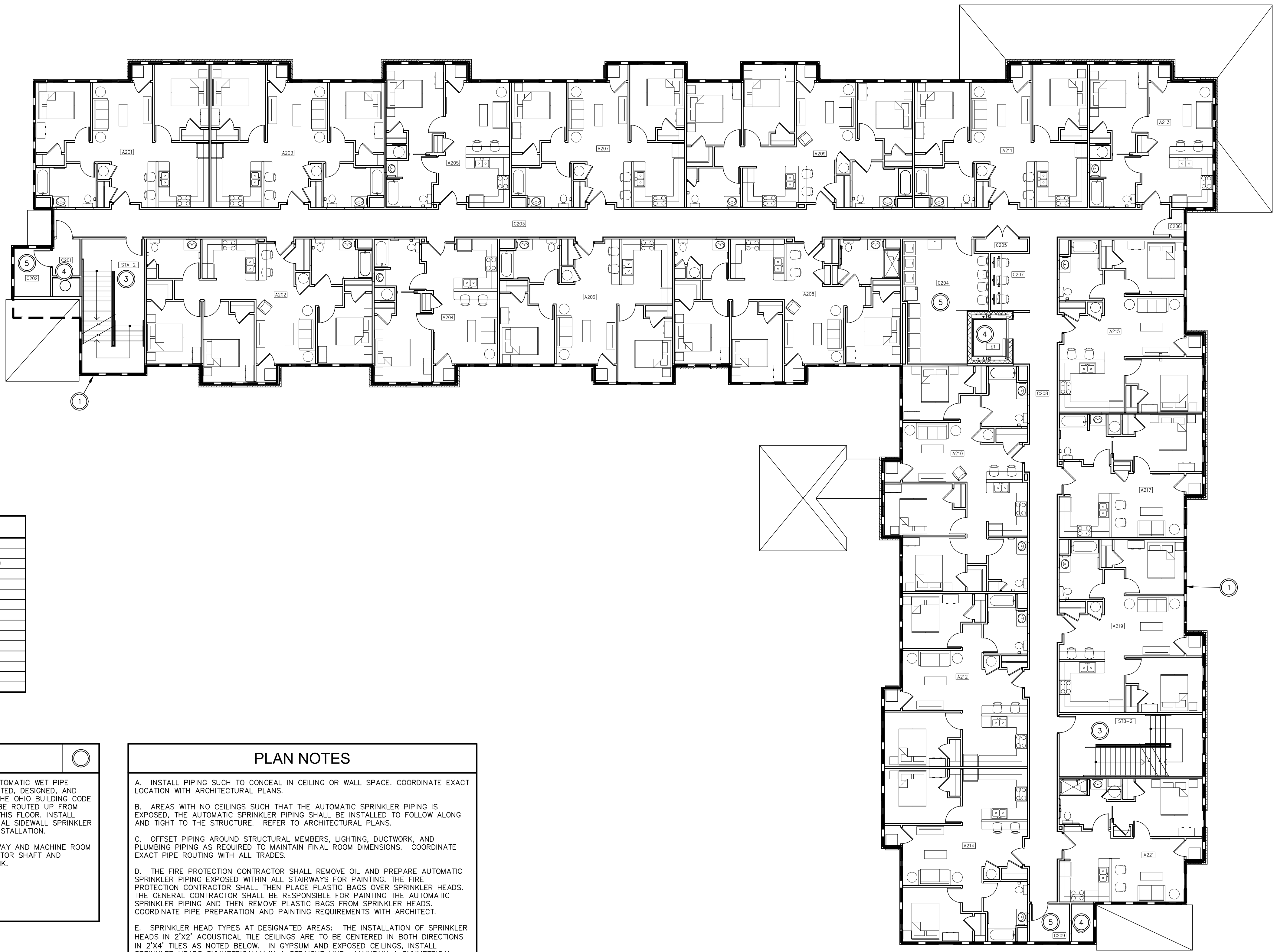
CODED NOTES	
1.	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13R REQUIREMENTS. THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. COORDINATE USE OF SIDEWALL VS. CEILING MOUNTED SPRINKLER HEADS ALONG WITH LOCATIONS AND QUANTITIES WITH ARCHITECT.
2.	INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE EAST SIDE OF THE BUILDING.
3.	APPROXIMATE LOCATION OF FIRE DEPARTMENT CONNECTION. COORDINATE STYLE AND LOCATION WITH AHJ.
4.	INSTALL AUTOMATIC SPRINKLER SYSTEM IN ELEVATOR HOISTWAY AND MACHINE ROOM PER ASME 17.1 AND N.F.P.A. 13R. SPRINKLER HEADS IN ELEVATOR SHAFT AND EQUIPMENT ROOM TO BE FURNISHED WITH 212 DEG. FUSIBLE LINK.
5.	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A. 13R.
6.	INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE WEST SIDE OF THE BUILDING.
7.	4" FIRE SERVICE ENTRANCE. INSTALL NEW BACKFLOW PREVENTER. REFER TO SERVICE ENTRANCE DETAIL FOR FURTHER REQUIREMENTS.
8.	4" DOMESTIC WATER SERVICE BY P.C.
9.	SPRINKLER MAIN SHALL BE ROUTED IN 1ST FLOOR CEILING SPACE. ROUTE BRANCHES INTO ROOMS AND CONTINUE RISERS UP WITHIN WALLS TO SERVE FLOORS ABOVE. RESIDENT UNITS SHALL BE SERVED WITH SIDEWALL HEADS. COORDINATE NUMBER OF HEADS AND RISERS TO SERVE SPACES AS REQUIRED.
10.	ORDINARY HAZARD CLASSIFICATION.
11.	CANOPY OVERHANG SHALL BE PROTECTED BY DRY SPRINKLER SYSTEM. EXTEND PIPING FROM DRY SYSTEM RISER IN MECHANICAL ROOM.
12.	FIRE SUPPRESSION CONTRACTOR SHALL DESIGN NEW DRY PIPE SPRINKLER SYSTEM TO SERVE THE CANOPY. EXTEND PIPING FROM ADJACENT FIRE MAIN AND PROVIDE TYCO MODEL DPV-1 DRY PIPE VALVE ASSEMBLY OR APPROVED EQUAL. INCLUDE BUTTERFLY WITH TAMPER, WATER FLOW ALARM, LOW AIR ALARM, MAIN DRAIN, AND PSI GAUGES. EXTEND DRAIN TO FLOOR DRAIN. INSTALL RELIABLE MODEL QMR2 RISER MOUNTED AIR COMPRESSOR OR APPROVED EQUAL. EXTEND COMPRESSED AIR PIPING TO DRY PIPE RISER VALVE. FOR SIZING PURPOSES, A 1/2 HP, 115V COMPRESSOR WAS UTILIZED. FINAL COMPRESSOR AND PIPE SIZING SHALL BE BY FIRE SUPPRESSION DESIGNER. COORDINATE FINAL SELECTION WITH E.C.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING OR WALL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'X2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'X4' TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
F.	ALL FINISHED CEILINGS UNLESS NOTED OTHERWISE (SUSPENDED LAY-IN AND GYPSUM): SPRINKLERS ARE TO BE SEMI RECESSED PENDANT TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G.	EXPOSED CEILINGS: SPRINKLERS ARE TO BE UPRIGHT TYPE. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO DAMAGE SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - FIRST FLOOR PLAN - FIRE SUPPRESSION



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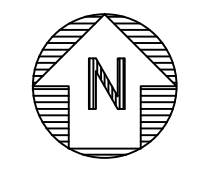


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM 5&H	STB-2	STAIR B

CODED NOTES	
1.	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13R REQUIREMENTS, THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. FIRE SUPPRESSION PIPING TO BE ROUTED UP FROM FIRST FLOOR MAINS BELOW UP WITHIN STUD WALLS TO SERVE THIS FLOOR. INSTALL SIDEWALL SPRINKLER HEADS TO SERVE ROOMS. COORDINATE FINAL SIDEWALL SPRINKLER HEAD LOCATIONS AND QUANTITIES WITH ARCHITECT PRIOR TO INSTALLATION.
2.	INSTALL AUTOMATIC SPRINKLER SYSTEM IN ELEVATOR HOISTWAY AND MACHINE ROOM PER ASME 17.1 AND N.F.P.A. 13R. SPRINKLER HEADS IN ELEVATOR SHAFT AND EQUIPMENT ROOM TO BE FURNISHED WITH 212 DEG. FUSIBLE LINK.
3.	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A 13R.
4.	PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13R.
5.	ORDINARY HAZARD CLASSIFICATION.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING OR WALL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'x2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'x4" TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
F.	ALL FINISHED CEILINGS UNLESS NOTED OTHERWISE (SUSPENDED LAY-IN AND GYPSUM): SPRINKLERS ARE TO BE SEMI RECESSED PENDANT TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G.	EXPOSED CEILINGS: SPRINKLERS ARE TO BE UPRIGHT TYPE. PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECTED TO DAMAGE SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - SECOND FLOOR PLAN - FIRE SUPPRESSION



STATE OF OHIO
C. J. SCHONOVER
E-62197
PROFESSIONAL ENGINEER
Signature: *Chief Schommer* 3/31/23
DATE

REVISIONS

SECOND FLOOR PLAN - FIRE SUPP.
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DAYTON OHIO



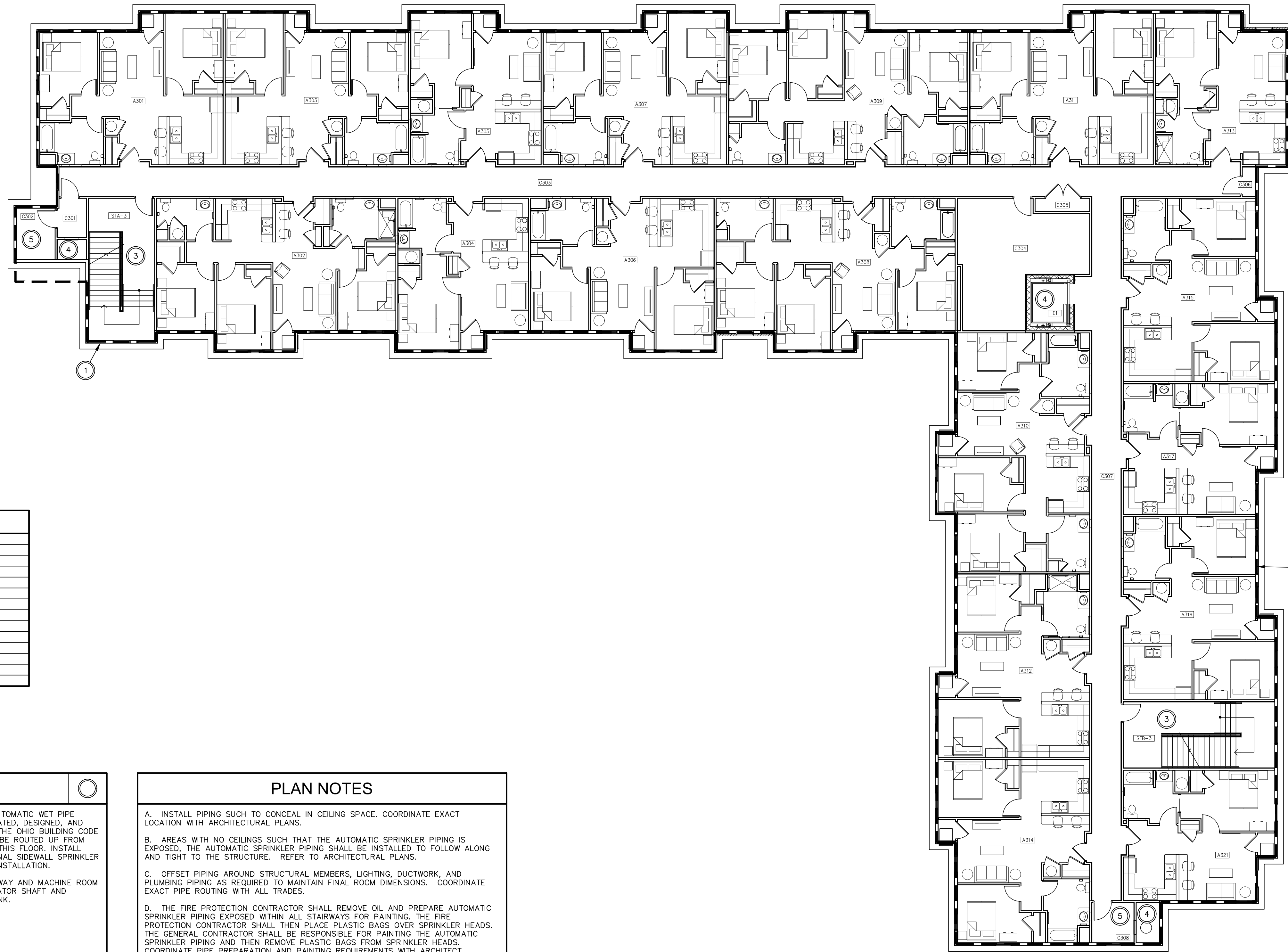
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DRAWING NUMBER

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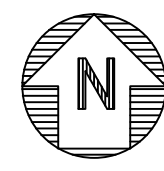
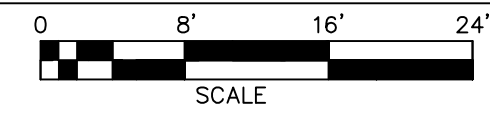


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
1.	BUILDING INSIDE OF DASHED OUTLINE TO BE SERVED BY AUTOMATIC WET PIPE SPRINKLER SYSTEM. SYSTEM IS TO BE HYDRAULICALLY CALCULATED, DESIGNED, AND INSTALLED IN ACCORDANCE WITH N.F.P.A. 13R REQUIREMENTS, THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. FIRE SUPPRESSION PIPING TO BE ROUTED UP FROM FIRST FLOOR MAINS BELOW UP WITHIN STUD WALLS TO SERVE THIS FLOOR. INSTALL SIDEWALL SPRINKLER HEADS TO SERVE ROOMS. COORDINATE FINAL SIDEWALL SPRINKLER HEAD LOCATIONS AND QUANTITIES WITH ARCHITECT PRIOR TO INSTALLATION.
2.	INSTALL AUTOMATIC SPRINKLER SYSTEM IN ELEVATOR HOISTWAY AND MACHINE ROOM PER ASME 17.1 AND N.F.P.A. 13R. SPRINKLER HEADS IN ELEVATOR SHAFT AND EQUIPMENT ROOM TO BE FURNISHED WITH 212 DEG. FUSIBLE LINK.
3.	AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A. 13R.
4.	PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13R.
5.	ORDINARY HAZARD CLASSIFICATION.

PLAN NOTES	
A.	INSTALL PIPING SUCH TO CONCEAL IN CEILING SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
B.	AREAS WITH NO CEILINGS SUCH THAT THE AUTOMATIC SPRINKLER PIPING IS EXPOSED, THE AUTOMATIC SPRINKLER PIPING SHALL BE INSTALLED TO FOLLOW ALONG AND TIGHT TO THE STRUCTURE. REFER TO ARCHITECTURAL PLANS.
C.	OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
D.	THE FIRE PROTECTION CONTRACTOR SHALL REMOVE OIL AND PREPARE AUTOMATIC SPRINKLER PIPING EXPOSED WITHIN ALL STAIRWAYS FOR PAINTING. THE FIRE PROTECTION CONTRACTOR SHALL THEN PLACE PLASTIC BAGS OVER SPRINKLER HEADS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING THE AUTOMATIC SPRINKLER PIPING AND THEN REMOVE PLASTIC BAGS FROM SPRINKLER HEADS. COORDINATE PIPE PREPARATION AND PAINTING REQUIREMENTS WITH ARCHITECT.
E.	SPRINKLER HEAD TYPES AT DESIGNATED AREAS: THE INSTALLATION OF SPRINKLER HEADS IN 2'X2' ACOUSTICAL TILE CEILINGS ARE TO BE CENTERED IN BOTH DIRECTIONS IN 2'X4' TILES AS NOTED BELOW. IN GYPSUM AND EXPOSED CEILINGS, INSTALL SPRINKLER HEADS SYMMETRICALLY IN A STRAIGHT LINE. MAINTAIN A SYMMETRICAL PATTERN FOR ALL CEILING TYPES FOR AN AESTHETICALLY PLEASING EFFECT. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
F.	ALL FINISHED CEILINGS UNLESS NOTED OTHERWISE (SUSPENDED LAY-IN AND GYPSUM): SPRINKLERS ARE TO BE SEMI RECESSED PENDANT TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
G.	EXPOSED CEILINGS: SPRINKLERS ARE TO BE UPRIGHT TYPE, PROVIDE SPRINKLER HEAD GUARDS IN ALL AREAS SUBJECT TO DAMAGE SUCH AS MECHANICAL ROOMS, ELECTRICAL ROOMS, AND STORAGE ROOMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
H.	REFER TO ARCHITECTURAL DRAWINGS FOR CLARIFICATION TO OPEN SPACES. PIPING CAN NOT EXTEND THROUGH THE MIDDLE OF OPEN SPACES. PIPING IS TO BE INSTALLED TIGHT TO STRUCTURE.
I.	DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WORK - THIRD FLOOR PLAN - FIRE SUPPRESSION



STATE OF OHIO
C. J. SCHONOVER
E-62197
PROFESSIONAL ENGINEER
Signature: *Chief Schommer* 3/31/23
DATE

REVISIONS

THIRD FLOOR PLAN - FIRE SUPP.
GERMANTOWN CROSSING
DAYTON OHIO



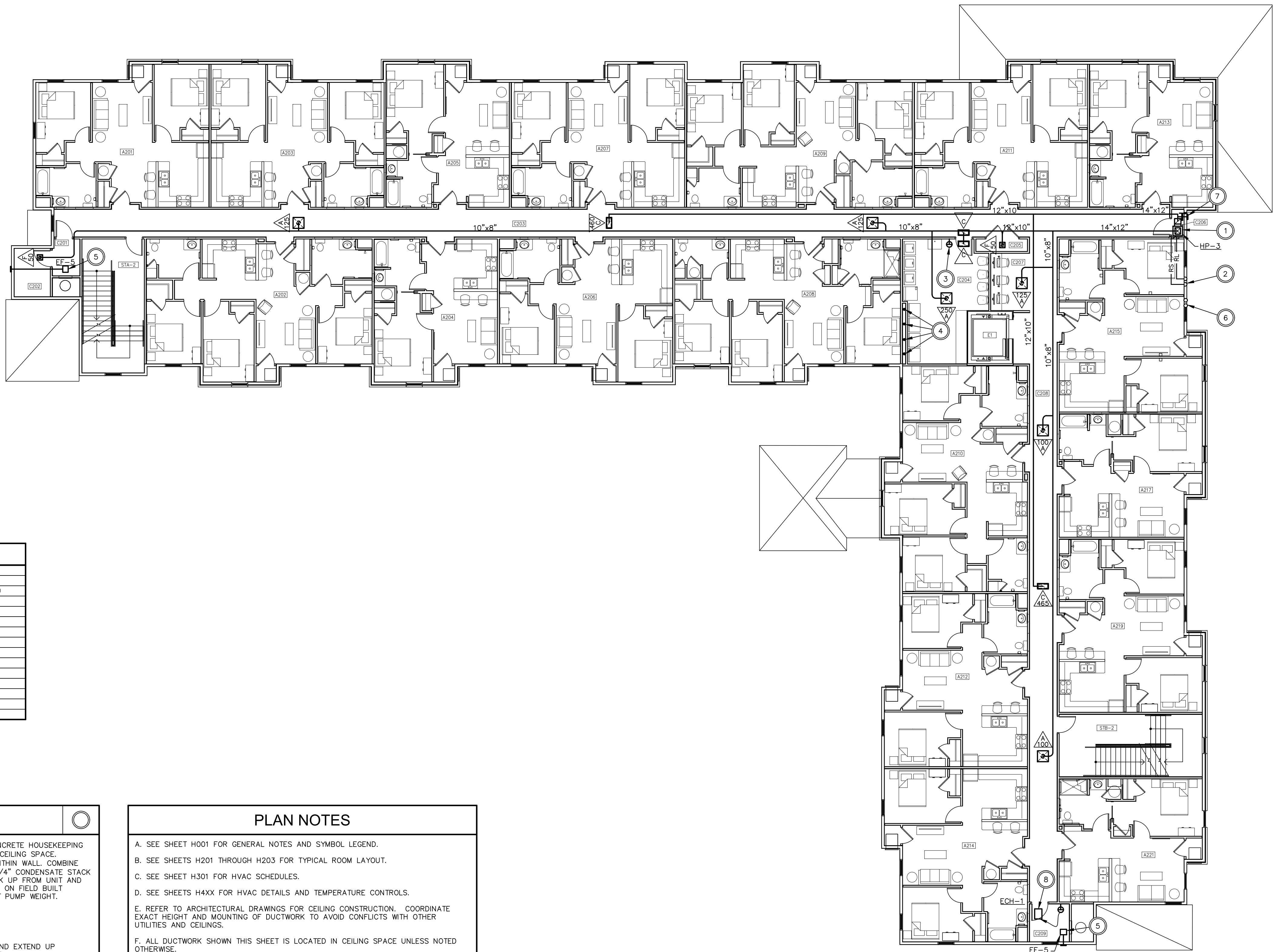
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

FS103
DRAWING NUMBER

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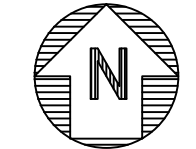


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM S&H	STB-2	STAIR B

CODED NOTES	
1.	VERTICAL AIR SOURCE HEAT PUMP. MOUNT ON 4" HIGH CONCRETE HOUSEKEEPING PAD. EXTEND RL/RS PIPING UP FROM UNIT AND ROUTE WITHIN CEILING SPACE. EXTEND 1" CONDENSATE DRAIN PIPING FROM UNIT AND DROP WITHIN WALL. COMBINE CONDENSATE DRAIN PIPE FROM FLOOR ABOVE INTO SINGLE 1-1/4" CONDENSATE STACK AND EXTEND TO FIRST FLOOR. EXTEND S.A. AND R.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. UNIT TO BE MOUNTED ON FIELD BUILT RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT.
2.	ROUTE RL/RS PIPING DOWN IN WALL TO FLOOR BELOW.
3.	THERMOSTAT SERVING HP-3.
4.	CONNECT 4" EXHAUST DUCT TO OWNER PROVIDED DRYER AND EXTEND UP THROUGH CEILING TO FLOOR ABOVE. ROUTE DUCT WITHIN CHASE.
5.	CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
6.	RL/RS PIPING UP AND DOWN IN WALL.
7.	EXTEND 12"x8" O.A. DUCTWORK FROM HEAT PUMP R.A. DUCT AND TERMINATE AT SIDEWALL WITH GREENHECK ESD-635-20X20 LOUVER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT. LOUVER TO HAVE A FREE AREA OF NO LESS THAN 1.1 SQUARE FEET AND MAXIMUM PRESSURE DROP NO GREATER THAN 0.03" WC. TRANSITION DUCTWORK AS REQUIRED TO ALLOW FOR CONNECTION TO LOUVER. INSTALL MANUAL BALANCE DAMPER AND AUTOMATIC CONTROL DAMPER WITHIN O.A. DUCTWORK AND BALANCE TO 380 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
8.	ELECTRIC CEILING HEATER.

PLAN NOTES
A. SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
B. SEE SHEETS H201 THROUGH H203 FOR TYPICAL ROOM LAYOUT.
C. SEE SHEET H301 FOR HVAC SCHEDULES.
D. SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
E. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
F. ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.

NEW WORK - SECOND FLOOR PLAN - HVAC



STATE OF OHIO
C. J. SCHONOVER
E-62197
PROFESSIONAL ENGINEER

Chief Schwabenc 3/31/23
SIGNATURE DATE

REVISIONS

SECOND FLOOR PLAN - HVAC

GERMANTOWN CROSSING

DAYTON OHIO



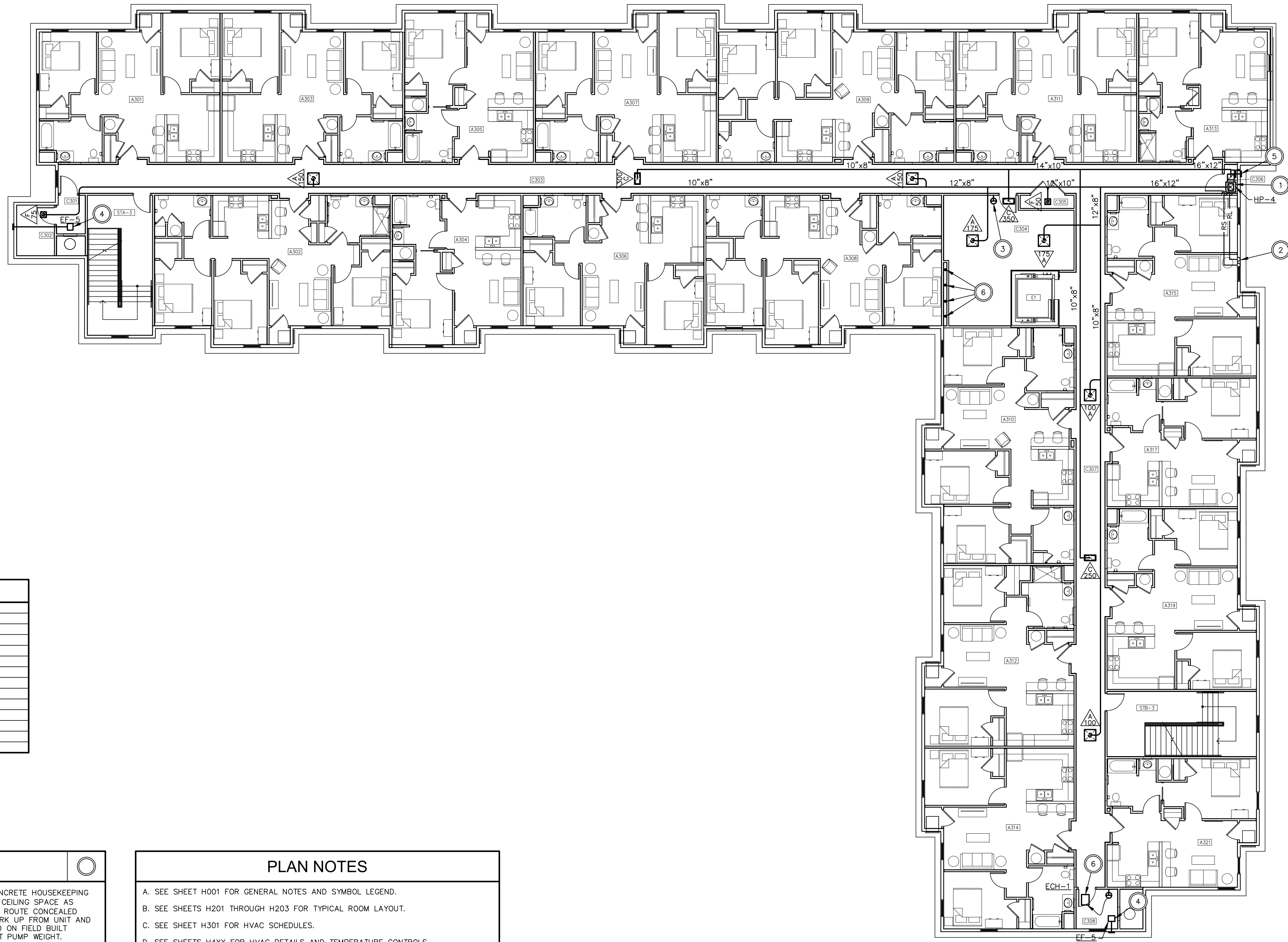
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03/31/2023
DATE
82A21
PROJECT NUMBER

H102
DRAWING NUMBER

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ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
○	1. VERTICAL AIR SOURCE HEAT PUMP. MOUNT ON 4" HIGH CONCRETE HOUSEKEEPING PAD. EXTEND RL/RS PIPING UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. EXTEND 1" CONDENSATE DRAIN PIPING FROM UNIT AND ROUTE CONCEALED WITHIN WALL TO FLOOR BELOW. EXTEND S.A. AND R.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. UNIT TO BE MOUNTED ON FIELD BUILT RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT.
○	2. ROUTE RL/RS PIPING DOWN IN WALL TO FLOOR BELOW.
○	3. THERMOSTAT SERVING HP-4.
○	4. CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
○	5. EXTEND 10"x8" O.A. DUCTWORK FROM HEAT PUMP R.A. DUCT AND TERMINATE AT SIDEWALL WITH GREENHECK ESD-202-18X18 LOUVER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT. LOUVER TO HAVE A FREE AREA OF NO LESS THAN 0.7 SQUARE FEET AND MAXIMUM PRESSURE DROP NO GREATER THAN 0.03"WC. TRANSITION DUCTWORK AS REQUIRED TO ALLOW FOR CONNECTION TO LOUVER. INSTALL MANUAL BALANCE DAMPER AND AUTOMATIC CONTROL DAMPER WITHIN O.A. DUCTWORK AND BALANCE TO 305 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
○	6. 4" DRYER EXHAUST DUCT UP FROM FLOOR BELOW. EXTEND WITHIN CHASE UP THROUGH ROOF AND TERMINATE WITH EXHAUST CAP PER MANUFACTURER'S RECOMMENDATIONS.

PLAN NOTES	
A.	SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
B.	SEE SHEETS H201 THROUGH H203 FOR TYPICAL ROOM LAYOUT.
C.	SEE SHEET H301 FOR HVAC SCHEDULES.
D.	SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
E.	REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
F.	ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.

NEW WORK - THIRD FLOOR PLAN - HVAC

0 8' 16' 24'
SCALE



Chief Schwabenc 3/31/23
SIGNATURE DATE

REVISIONS

NO.	DESCRIPTION

THIRD FLOOR PLAN - HVAC

GERMANTOWN CROSSING

DAYTON OHIO



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TURNING VISIONS INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

H103

DRAWING NUMBER



Chief Schoonover 3/31/23
SIGNATURE DATE

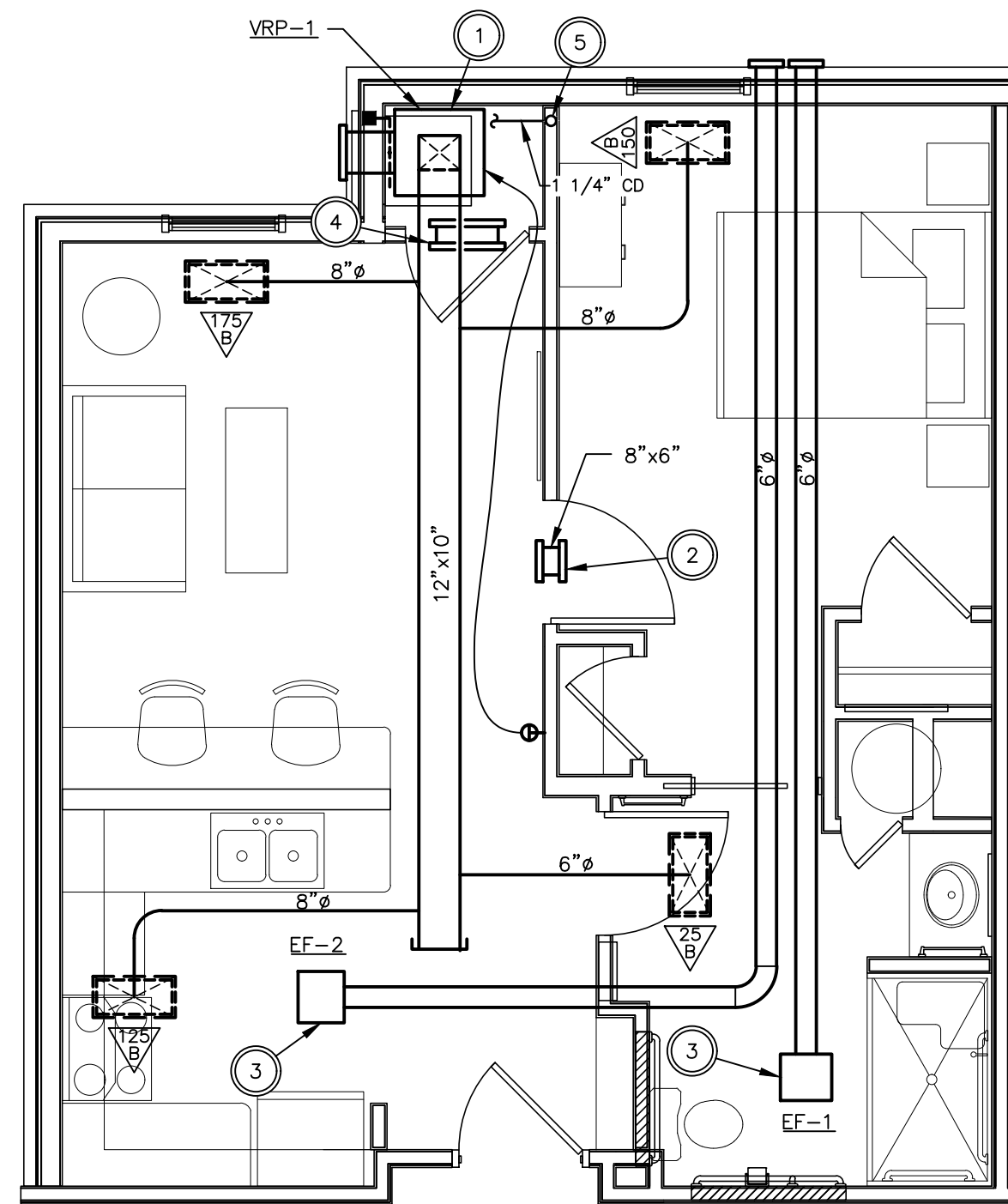
REVISIONS

PLAN NOTES

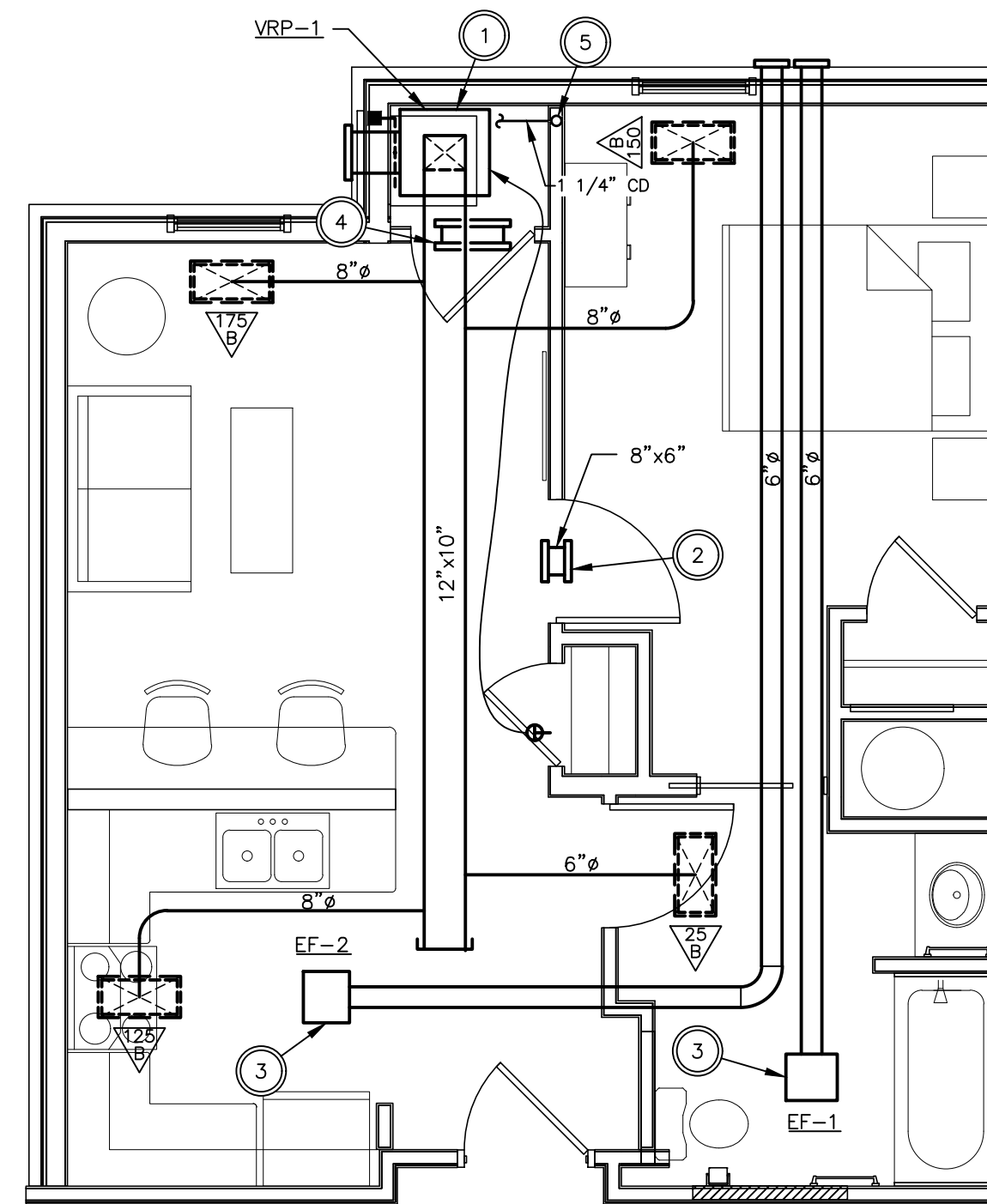
- SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- SEE SHEET H301 FOR HVAC SCHEDULES.
- SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
- ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- ALL THERMOSTATS TO BE MOUNTED AT 48" A.F.F.

CODED NOTES

- VARIABLE REFRIGERANT PACKAGED HEAT PUMP, MOUNT ON 4" TALL EQUIPMENT RAILS. EXTEND S.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. EXTEND O.A. DUCTWORK FROM UNIT WITH CONTROL DAMPER AND TERMINATE AT MANUFACTURER PROVIDED OUTDOOR AIR LOUVER. COORDINATE DUCT SIZE WITH LOUVER SIZE. SEAL LOUVER WALL PENETRATION WEATHER TIGHT.
- R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 8"x6" ON BOTH SIDES OF WALL.
- CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
- R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 18"x10" ON BOTH SIDES OF WALL.
- EXTEND 1-1/4" CONDENSATE DRAIN PIPING FROM VRP UNIT AND DROP WITHIN WALL AS SHOWN. COMBINE CONDENSATE DRAIN PIPE FROM FLOORS ABOVE INTO SINGLE 1-1/4" CONDENSATE STACK AND EXTEND TO FIRST FLOOR. FOR FIRST FLOOR ROOMS ONLY. EXTEND CONDENSATE PIPING THROUGH EXTERIOR WALL TO OUTDOORS. ANGLE DRAIN PIPE DOWNWARD TO DRAIN ONTO EXTERIOR LANDSCAPING. SEAL CONDENSATE DRAIN WALL PENETRATIONS WEATHER TIGHT.



NEW WORK - ONE BEDROOM ADA - HVAC



NEW WORK - ONE BEDROOM TYP. - HVAC



TYPICAL ONE BEDROOM PLANS

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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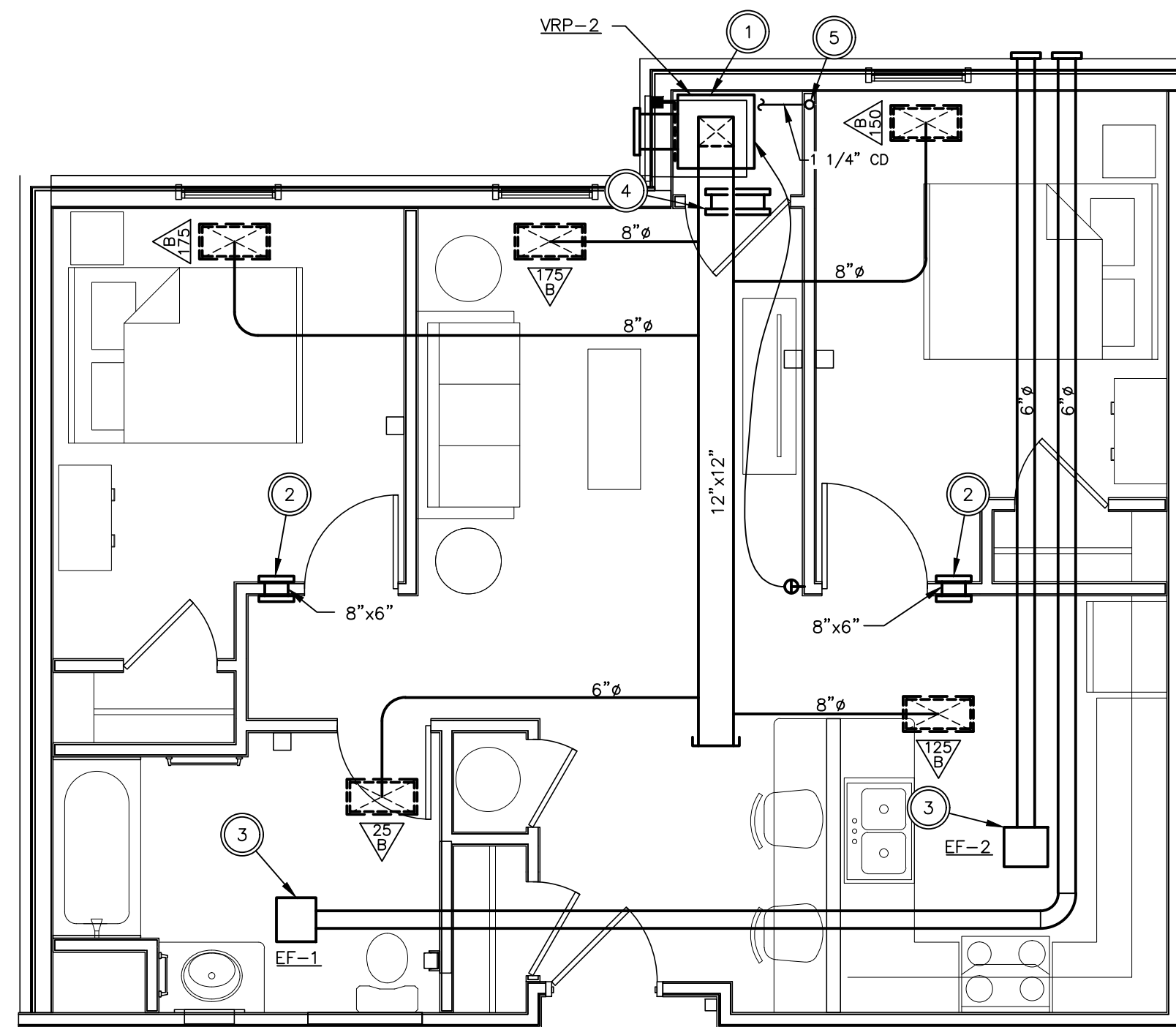
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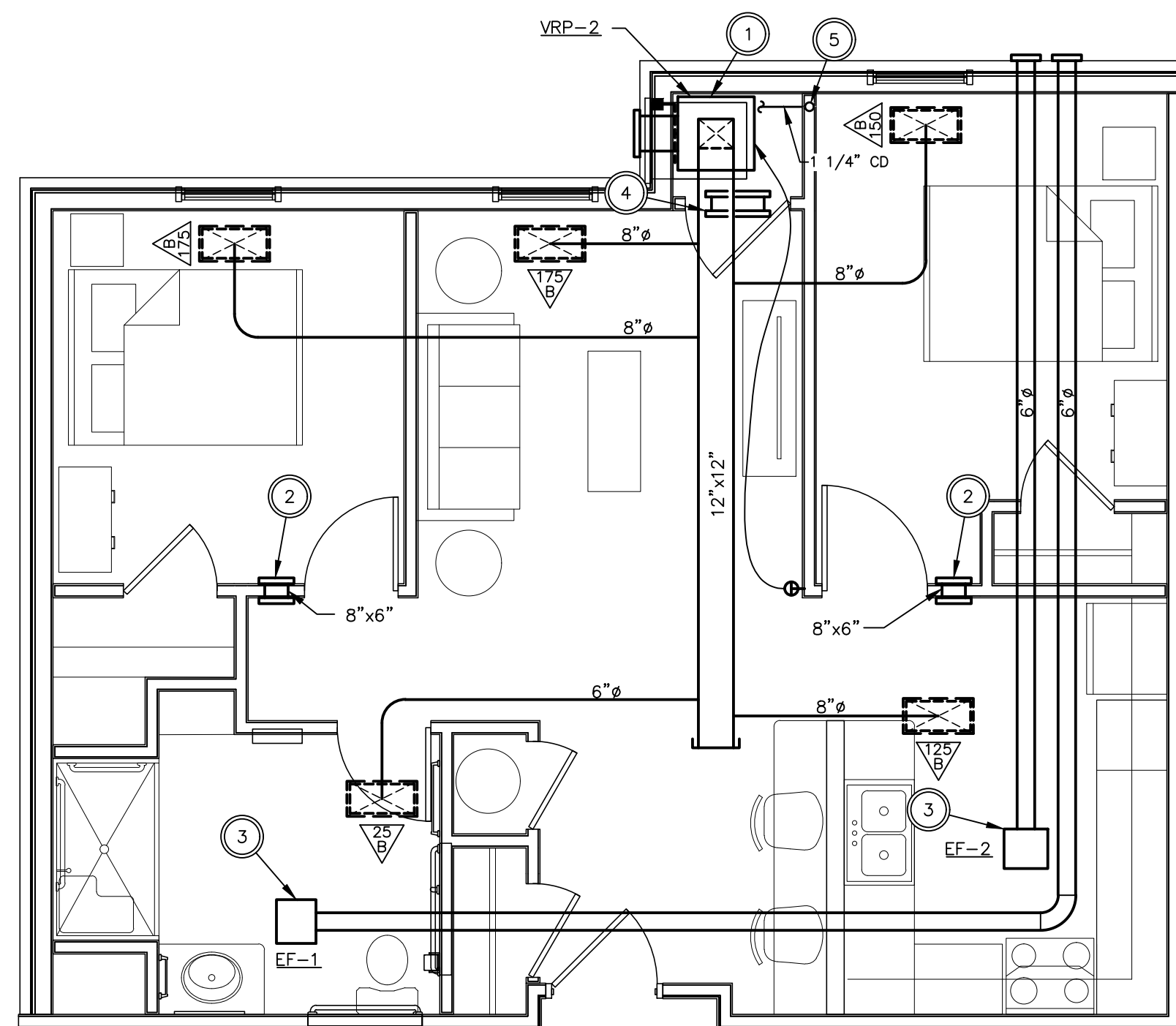
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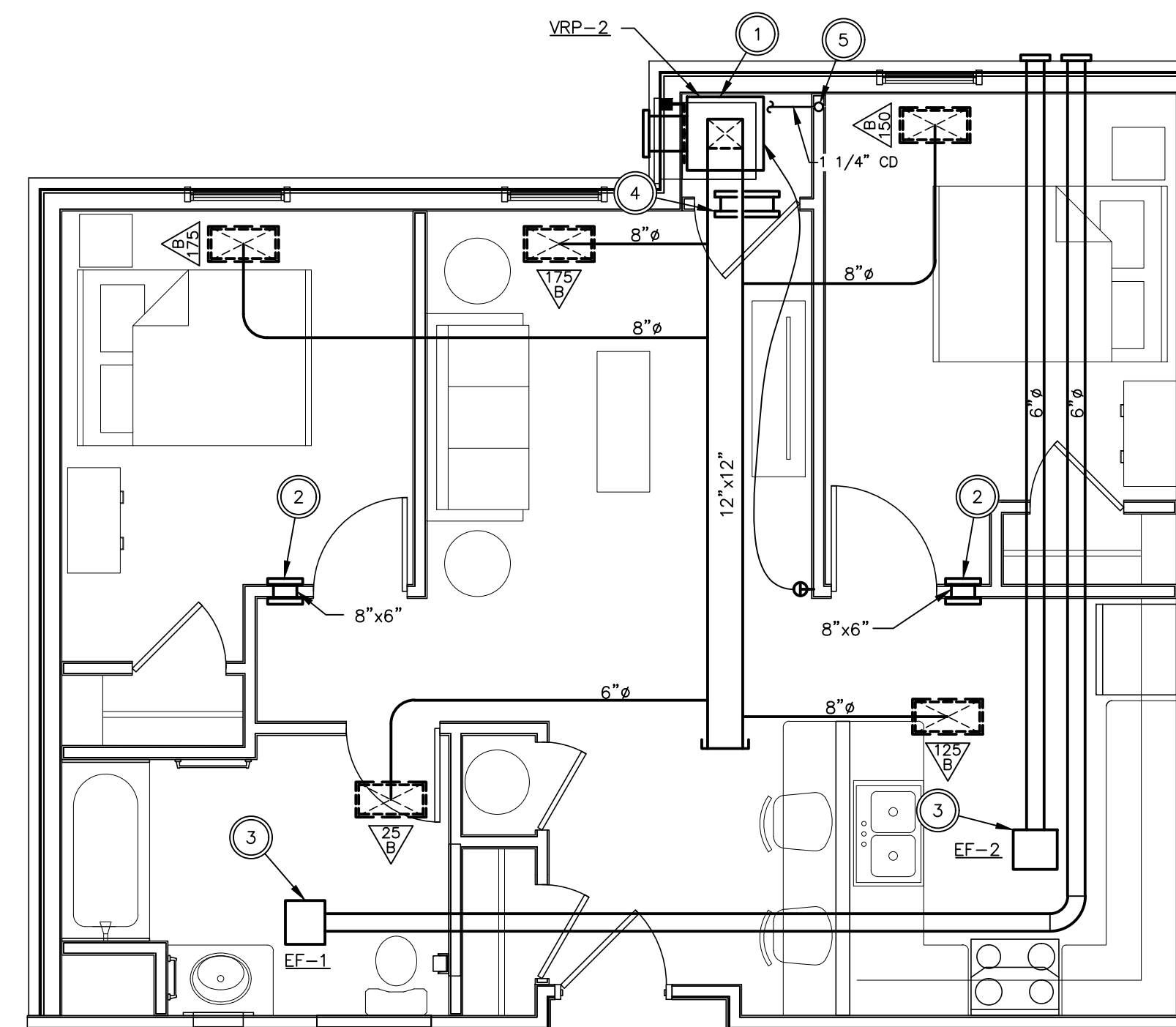
H201
DRAWING NUMBER



NEW WORK - TWO BEDROOM S&H - HVAC



NEW WORK - TWO BEDROOM ADA - HVAC



NEW WORK - TWO BEDROOM TYP. - HVAC



PLAN NOTES

- A. SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- B. SEE SHEET H301 FOR HVAC SCHEDULES.
- C. SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
- E. ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- F. ALL THERMOSTATS TO BE MOUNTED AT 48" A.F.F.

CODED NOTES

- 1. VARIABLE REFRIGERANT PACKAGED HEAT PUMP. MOUNT ON 4" TALL EQUIPMENT RAILS. EXTEND S.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. EXTEND O.A. DUCTWORK FROM UNIT WITH CONTROL DAMPER AND TERMINATE AT MANUFACTURER PROVIDED OUTDOOR AIR LOUVER. COORDINATE DUCT SIZE WITH LOUVER SIZE. SEAL LOUVER WALL PENETRATION WEATHER TIGHT.
- 2. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 8"x6" ON BOTH SIDES OF WALL.
- 3. CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
- 4. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 18"x10" ON BOTH SIDES OF WALL.
- 5. EXTEND 1-1/4" CONDENSATE DRAIN PIPING FROM VRP UNIT AND DROP WITHIN WALL AS SHOWN. COMBINE CONDENSATE DRAIN PIPE FROM FLOORS ABOVE INTO SINGLE 1-1/4" CONDENSATE STACK AND EXTEND TO FIRST FLOOR. FOR FIRST FLOOR ROOMS ONLY. EXTEND CONDENSATE PIPING THROUGH EXTERIOR WALL TO OUTDOORS. ANGLE DRAIN PIPE DOWNWARD TO DRAIN ONTO EXTERIOR LANDSCAPING. SEAL CONDENSATE DRAIN WALL PENETRATIONS WEATHER TIGHT.



Chief Engineer 3/31/23
SIGNATURE DATE

REVISIONS

TYPICAL TWO BEDROOM PLANS

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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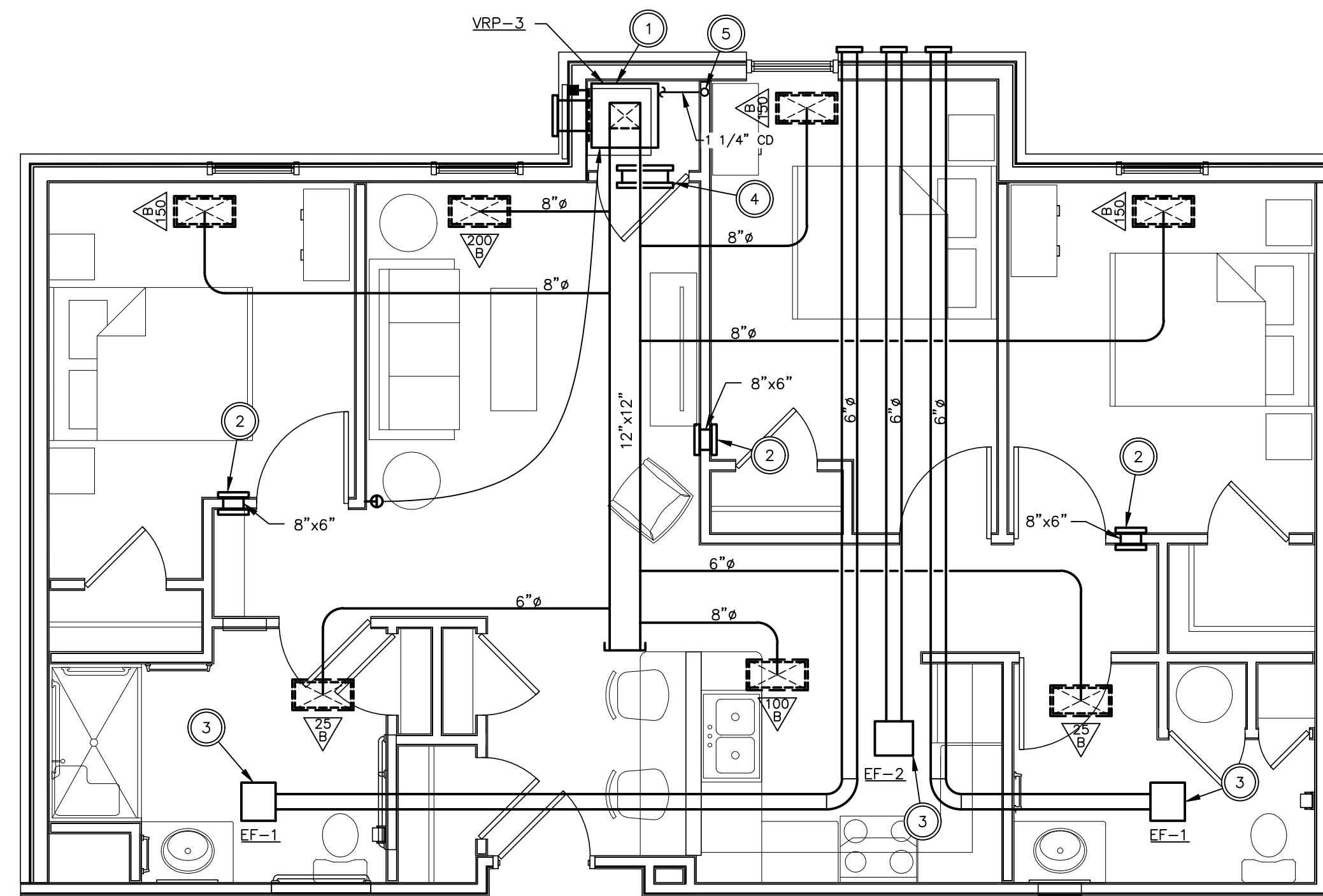
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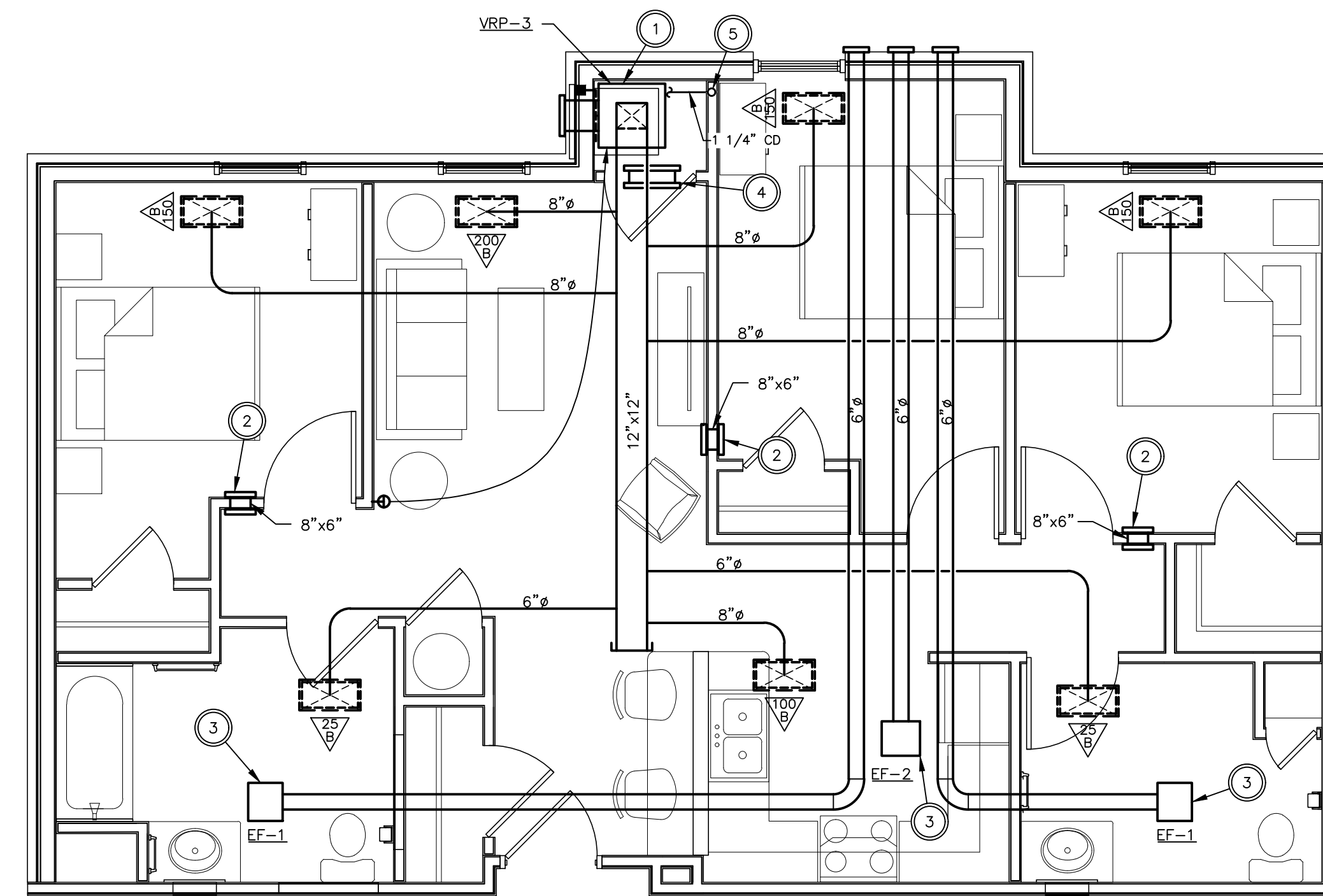
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NEW WORK - THREE BEDROOM ADA - HVAC



NEW WORK - THREE BEDROOM TYP. - HVAC



PLAN NOTES

- A. SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- B. SEE SHEET H301 FOR HVAC SCHEDULES.
- C. SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER UTILITIES AND CEILINGS.
- E. ALL DUCTWORK SHOWN THIS SHEET IS LOCATED IN CEILING SPACE UNLESS NOTED OTHERWISE.
- F. ALL THERMOSTATS TO BE MOUNTED AT 48" A.F.F.

CODED NOTES

- 1. VARIABLE REFRIGERANT PACKAGED HEAT PUMP. MOUNT ON 4" TALL EQUIPMENT RAILS. EXTEND S.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. EXTEND O.A. DUCTWORK FROM UNIT WITH CONTROL DAMPER AND TERMINATE AT MANUFACTURER PROVIDED OUTDOOR AIR LOUVER. COORDINATE DUCT SIZE WITH LOUVER SIZE. SEAL LOUVER WALL PENETRATION WEATHER TIGHT.
- 2. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 8"x6" ON BOTH SIDES OF WALL.
- 3. CEILING MOUNTED EXHAUST FAN. EXTEND 6" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-6 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
- 4. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 18"x12" ON BOTH SIDES OF WALL.
- 5. EXTEND 1-1/4" CONDENSATE DRAIN PIPING FROM VRP UNIT AND DROP WITHIN WALL AS SHOWN. COMBINE CONDENSATE DRAIN PIPE FROM FLOORS ABOVE INTO SINGLE 1-1/4" CONDENSATE STACK AND EXTEND TO FIRST FLOOR. FOR FIRST FLOOR ROOMS ONLY. EXTEND CONDENSATE PIPING THROUGH EXTERIOR WALL TO OUTDOORS. ANGLE DRAIN PIPE DOWNWARD TO DRAIN ONTO EXTERIOR LANDSCAPING. SEAL CONDENSATE DRAIN WALL PENETRATIONS WEATHER TIGHT.



Signature: *C. J. Schoonover* 3/31/23
DATE

REVISIONS

TYPICAL THREE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



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03/31/2023

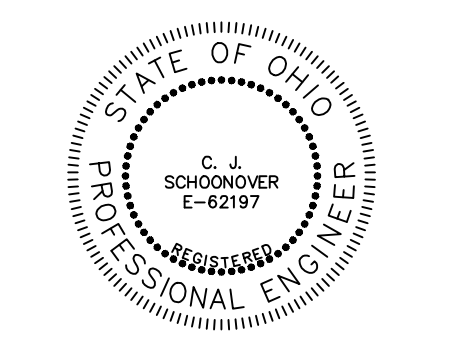
DATE

82A21

PROJECT NUMBER

H203

DRAWING NUMBER



Signature: C. J. Schoonover
Date: 3/31/23

REVISIONS table with columns for revision number and description.

DIFFUSER, REGISTER, & GRILLE SCHEDULE table with columns for MARK, MAKE, MODEL, DAMPER, MOUNTING, NOMINAL FACE SIZE, MAX NC, NECK SIZE (IN INCHES) AT INDICATED MAXIMUM CFM, and REMARKS.

ENVIRONMENTAL CONDITIONING UNIT SCHEDULE table with columns for NO., MAKE, MODEL, TYPE, VOLTS / PHASE, FAN DATA, COOLING COILS, HEATING COIL (ELECTRIC), AIR-COOLED CONDENSER, and REMARKS.

DUCT MATERIAL SCHEDULE table with columns for NO., SMANCA PRESSURE CLASSIFICATION, DUCT MATERIAL, and REMARKS.

VARIABLE REFRIGERANT PACKAGED HEAT PUMP SCHEDULE table with columns for NO., MAKE, MODEL, TYPE, VOLTS / PHASE, FAN CFM, ESP, MIN. OA CFM, UNIT EFFICIENCY, COOLING PERFORMANCE, HEATING COIL (ELECTRIC), HEAT PUMP HEAT, FILTER TYPE, and REMARKS.

ELECTRIC HEATING EQUIPMENT SCHEDULE table with columns for NO., MAKE, MODEL, DESCRIPTION, MOUNTING TYPE, CAPACITY, AMPS, CFM, VOLTS / PHASE, and REMARKS.

AIR SOURCE HEAT PUMP SCHEDULE table with columns for NO., MAKE, MODEL, DESCRIPTION, FAN CFM, MIN. OA CFM, ESP IN. H2O, VOLTS / PHASE, UNIT EFFICIENCY, COOLING PERFORMANCE, HEATING COIL (ELECTRIC), HEAT PUMP HEAT, OUTDOOR CONDENSING UNIT, and REMARKS.

LOUVER SCHEDULE table with columns for NO., MAKE, MODEL, SERVES, NOMINAL SIZE, MIN. FREE AREA SQ. FT., MAX CFM, MAXIMUM PRESS. DROP IN. W.G., MAX. WATER PENETRATION, FINISH, and REMARKS.

FAN SCHEDULE table with columns for NO., MAKE, MODEL, SERVICE, DESCRIPTION, DRIVE TYPE, CFM, ESP IN H2O, INPUT WATTS, RPM, VOLTS / PHASE, and REMARKS.

HVAC SCHEDULES
GERMANTOWN CROSSING
DAYTON OHIO



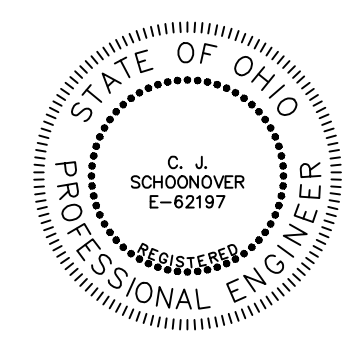
430 GRANT STREET
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TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

H301
DRAWING NUMBER

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C. J. Schoonover
 SIGNATURE DATE 3/31/23

REVISIONS

DETAILS, TEMP. CONTROLS - HVAC
GERMANTOWN CROSSING
DAYTON OHIO



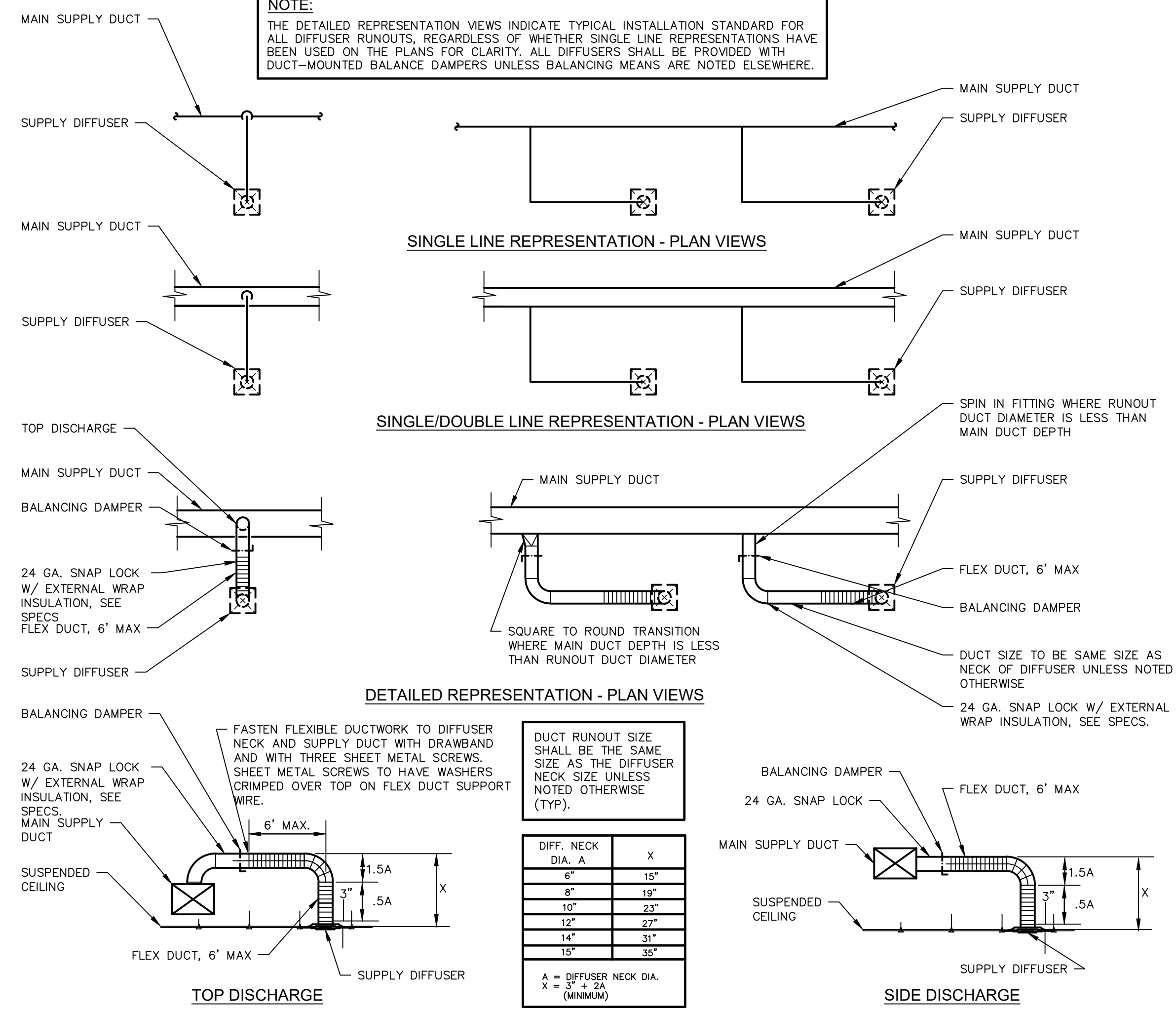
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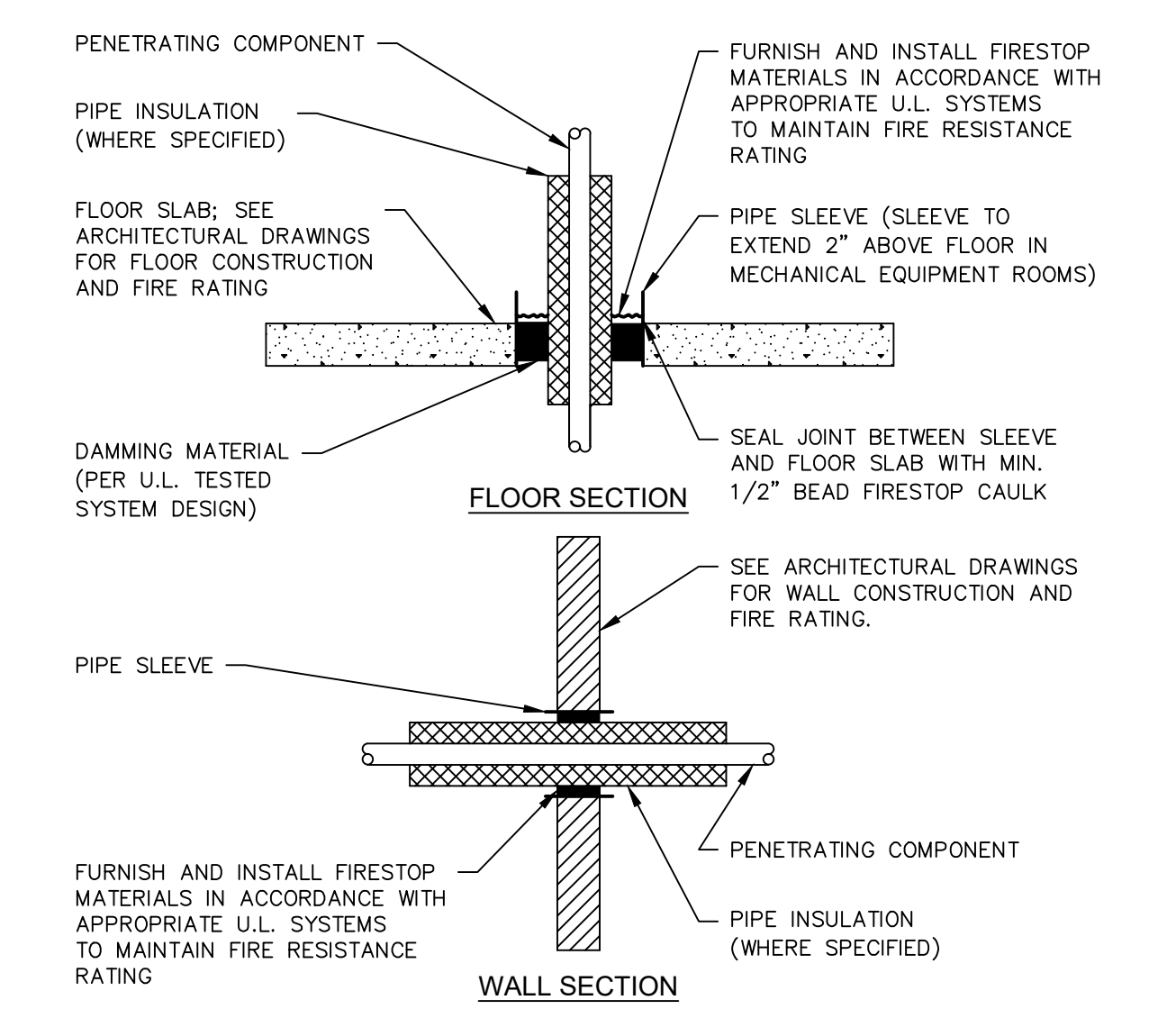
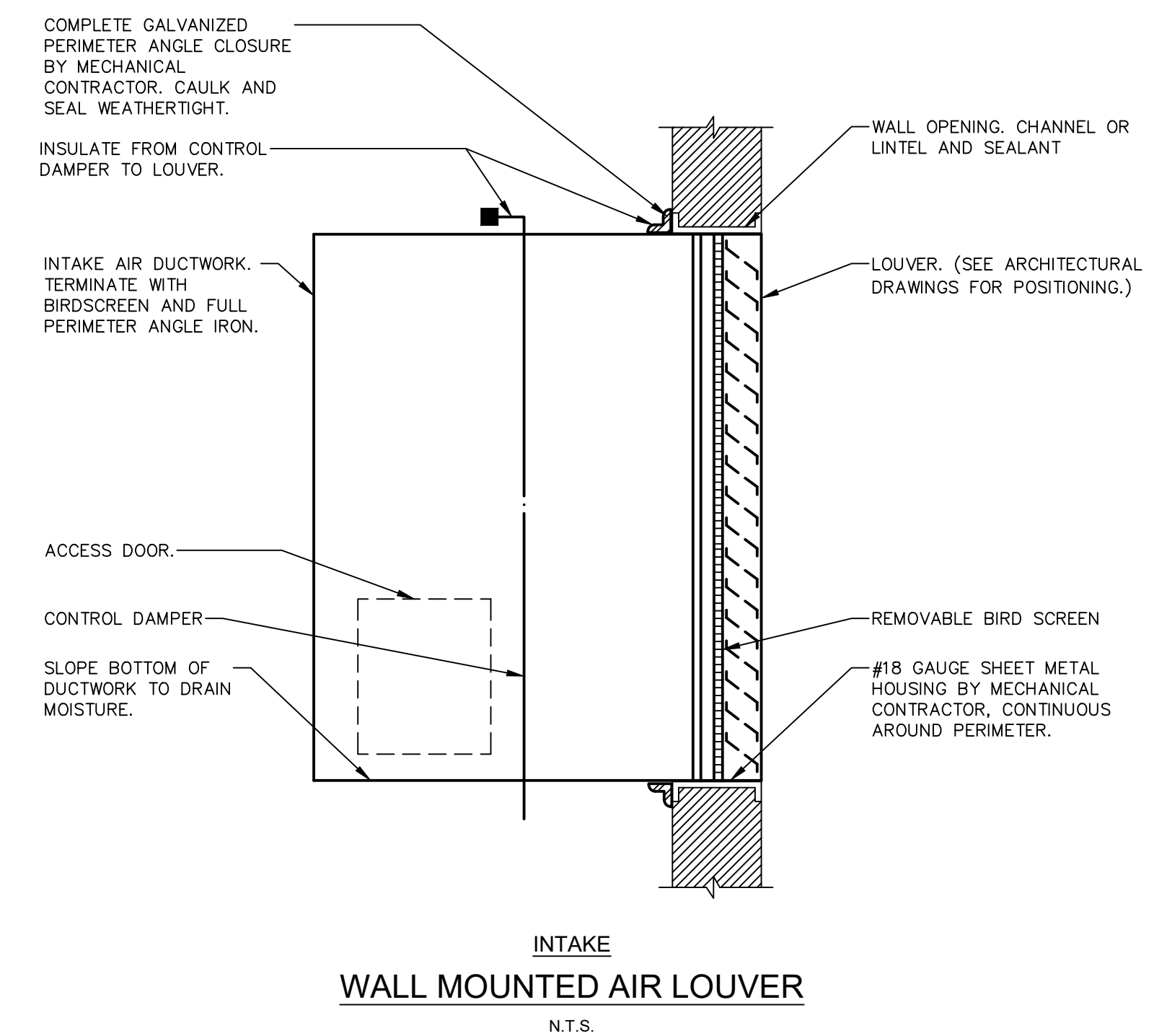
03/31/2023
 DATE
 82A21
 PROJECT NUMBER

H401
 DRAWING NUMBER

NOTE:
 THE DETAILED REPRESENTATION VIEWS INDICATE TYPICAL INSTALLATION STANDARD FOR ALL DIFFUSER RUNOUTS, REGARDLESS OF WHETHER SINGLE LINE REPRESENTATIONS HAVE BEEN USED ON THE PLANS FOR CLARITY. ALL DIFFUSERS SHALL BE PROVIDED WITH DUCT-MOUNTED BALANCE DAMPERS UNLESS BALANCING MEANS ARE NOTED ELSEWHERE.

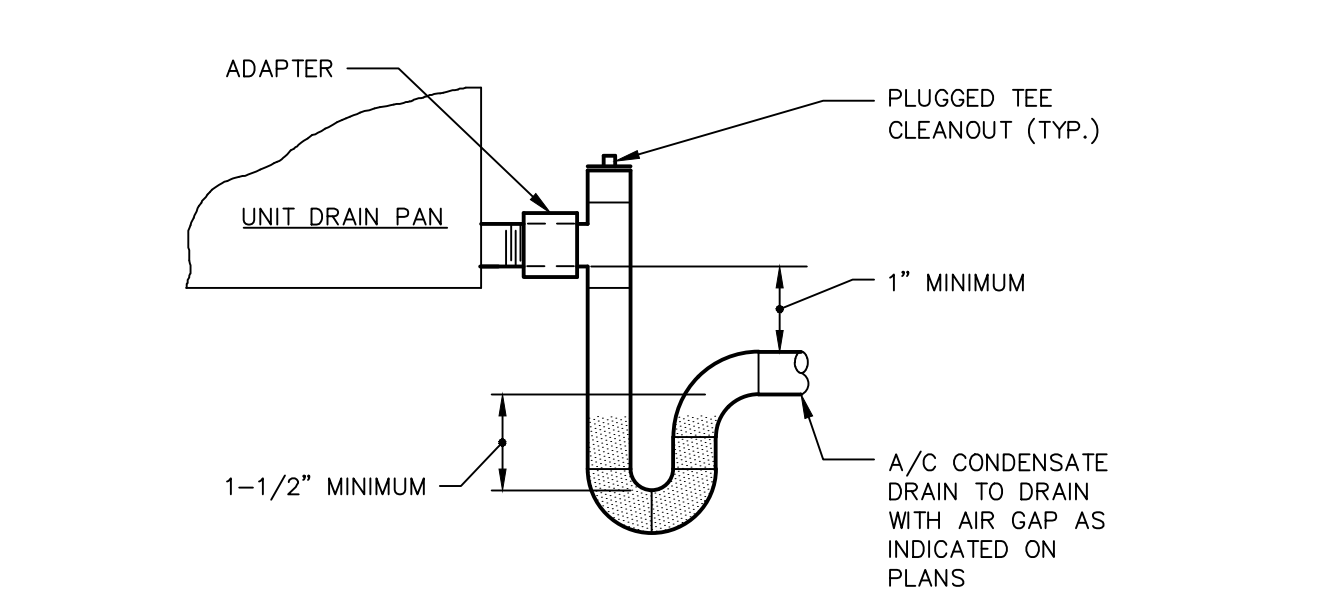
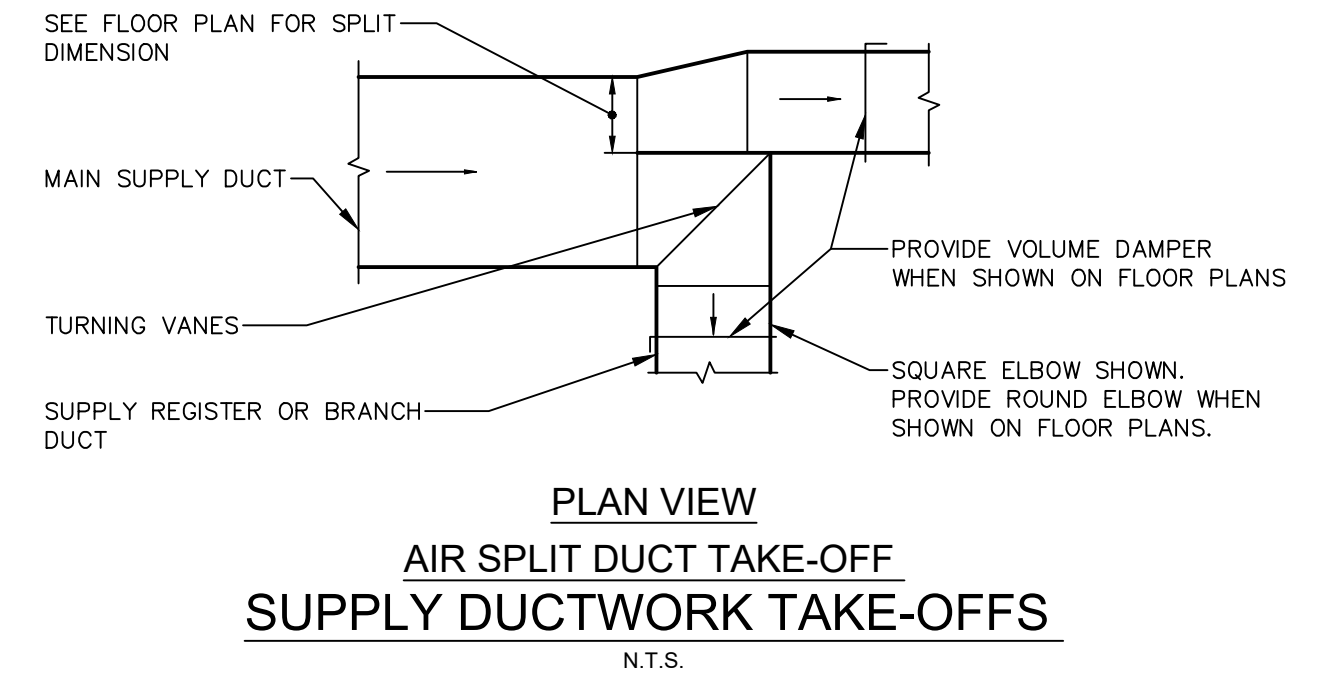
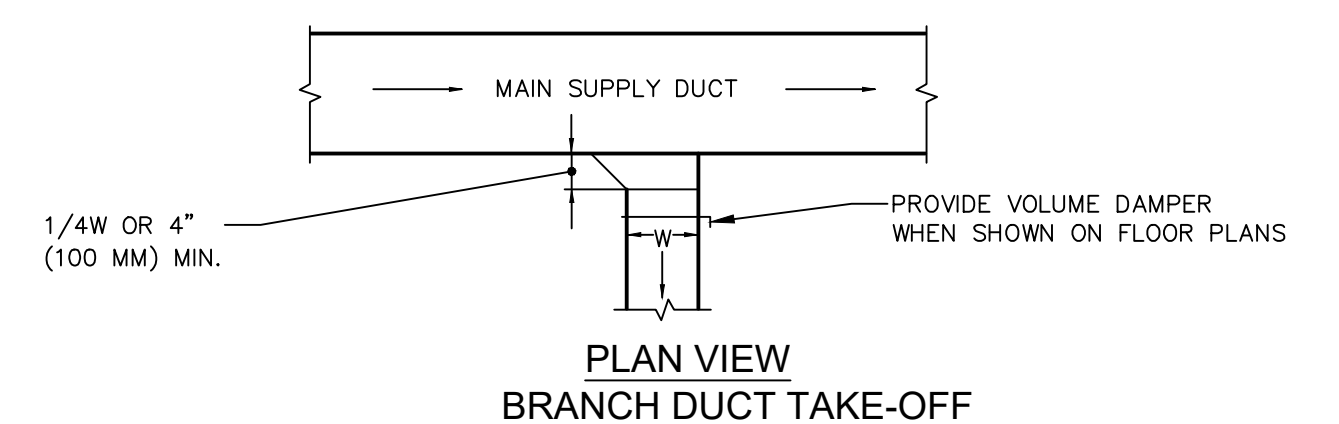
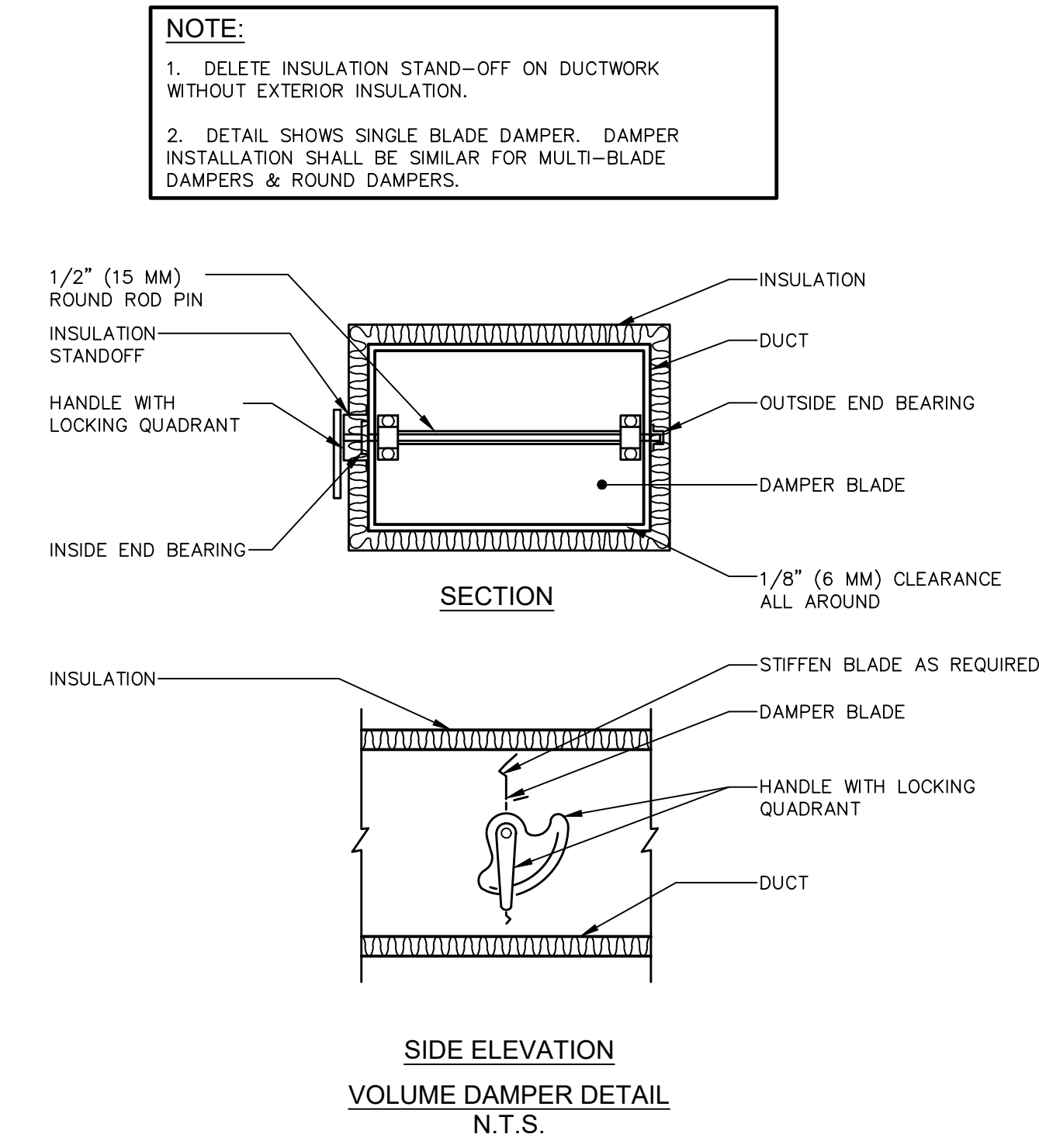
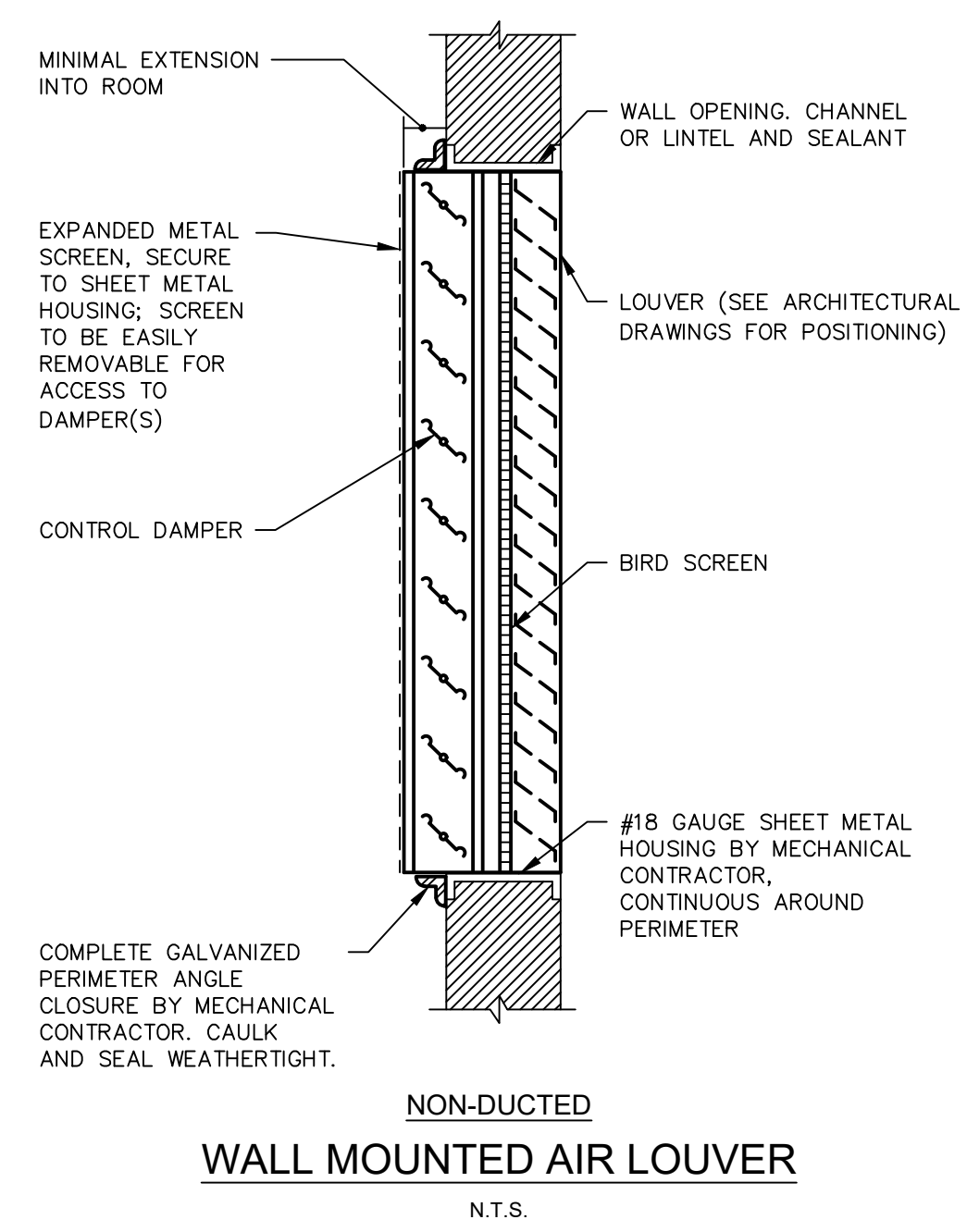


SUPPLY DIFFUSER CONNECTION DETAIL
 N.T.S.



NOTES:

- WHERE PIPES, DUCTS AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
- GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
- FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
- THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
- CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.



NOTES:

- LOCATE TRAP AS CLOSE AS POSSIBLE TO TERMINAL UNIT OUTLET.
- SIZE OF TRAP PIPING TO BE LARGER OF EQUIPMENT OUTLET SIZE OR DIMENSION ON PIPING.
- SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.

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Signature: *C. J. Schoonover* 3/31/23
DATE

REVISIONS

NO.	DATE	DESCRIPTION

HVAC DETAILS

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DAYTON OHIO



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TURNING VISIONS
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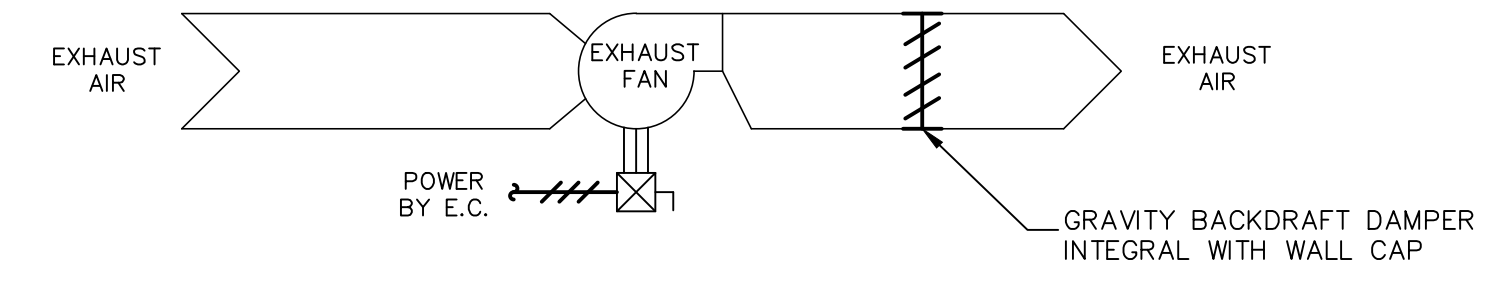
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82A21

PROJECT NUMBER

H402

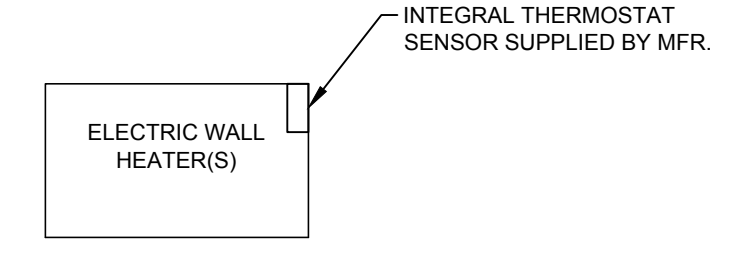
DRAWING NUMBER



SEQUENCE OF OPERATION:
1. EXHAUST FAN TO RUN CONTINUOUSLY 24/7/365.

**EF-5
EXHAUST FAN CONTROL DIAGRAM**

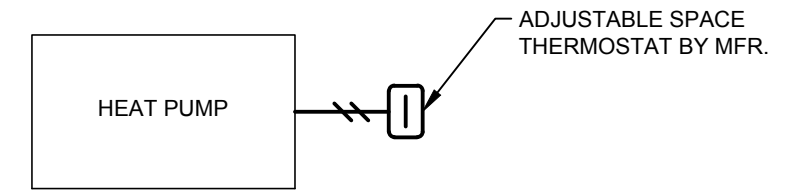
N.T.S.



SEQUENCE OF OPERATION:
THE WALL HEATER SHALL BE CYCLED ON/OFF BASED ON AN INTEGRAL THERMOSTAT IN THE UNIT. UPON A DROP IN SPACE TEMPERATURE BELOW SETPOINT (ADJ), THE WALL HEATER SHALL BE SWITCHED ON.

**EWH-1
ELECTRIC WALL HEATER CONTROL DIAGRAM**

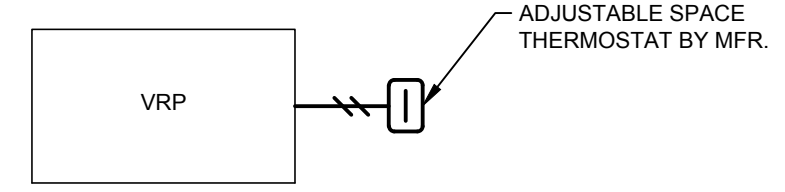
N.T.S.



NOTES:
UNIT SHALL OPERATE ON ITS OWN INTEGRAL CONTROLS INCORPORATING DX COOLING, HEAT PUMP HEATING, AND AUXILIARY ELECTRIC HEAT.
T.C.C. TO INTERLOCK HEAT PUMP OPERATION WITH CONTROL DAMPER ON OUTSIDE AIR DUCT. CONTROL DAMPER TO FAIL IN THE CLOSED POSITION
T.C.C. TO PROVIDE DAMPER AND ALL WIRING ASSOCIATED WITH CONTROL DAMPER.

**HP-1.2.3.4
AIR SOURCE HEAT PUMP CONTROL DIAGRAM**

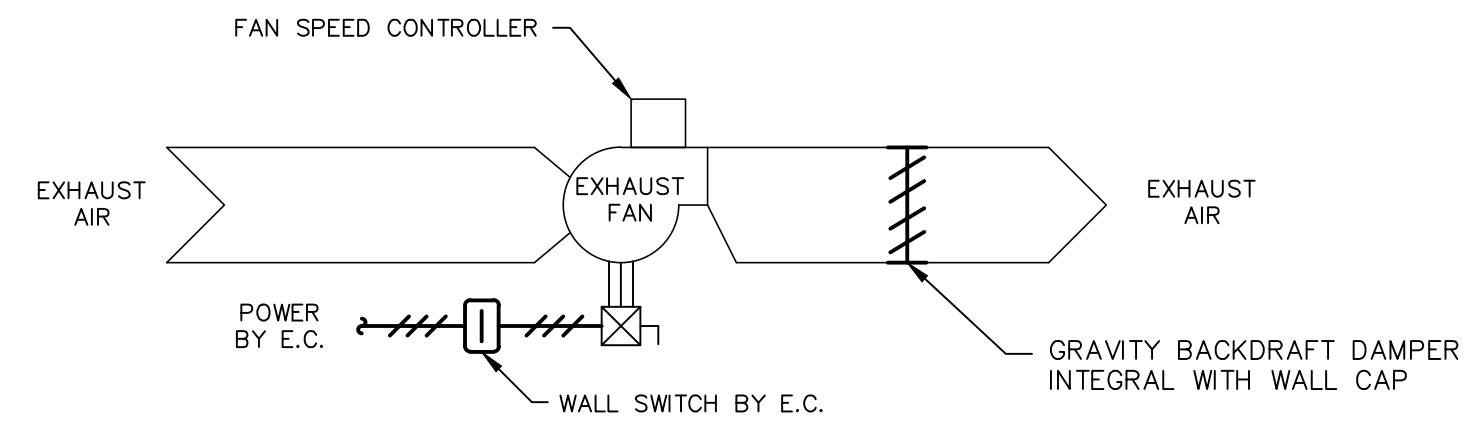
N.T.S.



NOTES:
UNIT SHALL OPERATE ON ITS OWN INTEGRAL CONTROLS INCORPORATING DX COOLING, HEAT PUMP HEATING, AND AUXILIARY ELECTRIC HEAT.
T.C.C. TO INTERLOCK VRP OPERATION WITH CONTROL DAMPER ON OUTSIDE AIR DUCT. CONTROL DAMPER TO FAIL IN THE CLOSED POSITION.
T.C.C. TO PROVIDE DAMPER AND ALL WIRING ASSOCIATED WITH CONTROL DAMPER.

**VRP-1.2.3
VARIABLE REFRIGERANT PACKAGED HEAT PUMP CONTROL DIAGRAM**

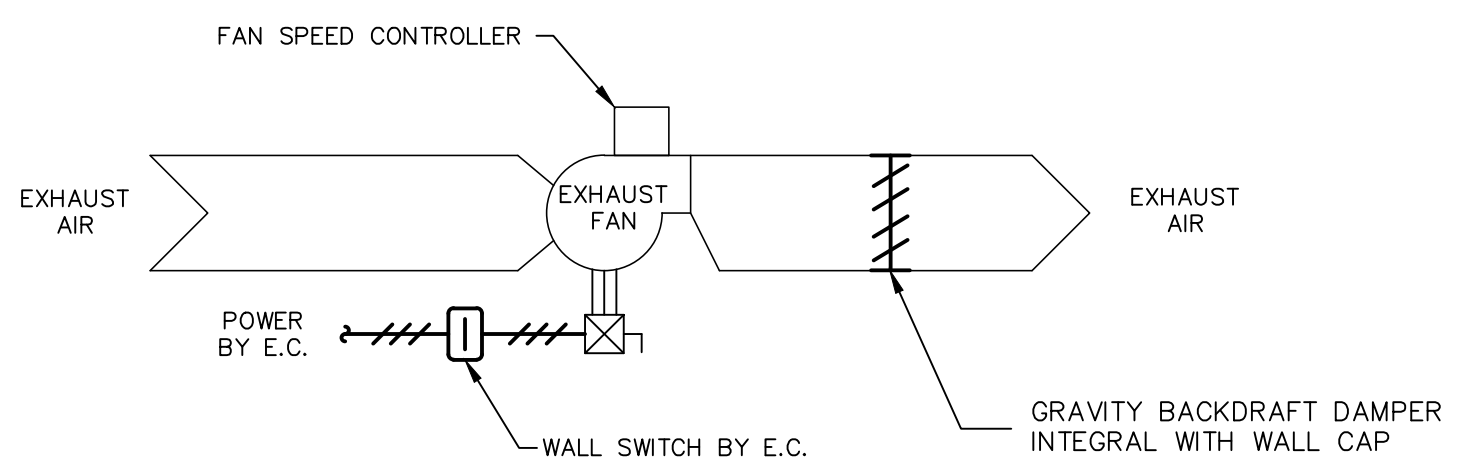
N.T.S.



SEQUENCE OF OPERATION:
1. EXHAUST FAN SHALL RUN CONTINUOUSLY 24/7/365.
2. THE EXHAUST FAN SHALL OPERATE AT THE MINIMUM SCHEDULED AIRFLOW WHEN THE WALL SWITCH IS IN THE "OFF" POSITION.
3. THE EXHAUST FAN SHALL OPERATE AT THE MAXIMUM SCHEDULED AIRFLOW WHEN THE WALL SWITCH IS IN THE "ON" POSITION.

**EF-1
EXHAUST FAN CONTROL DIAGRAM**

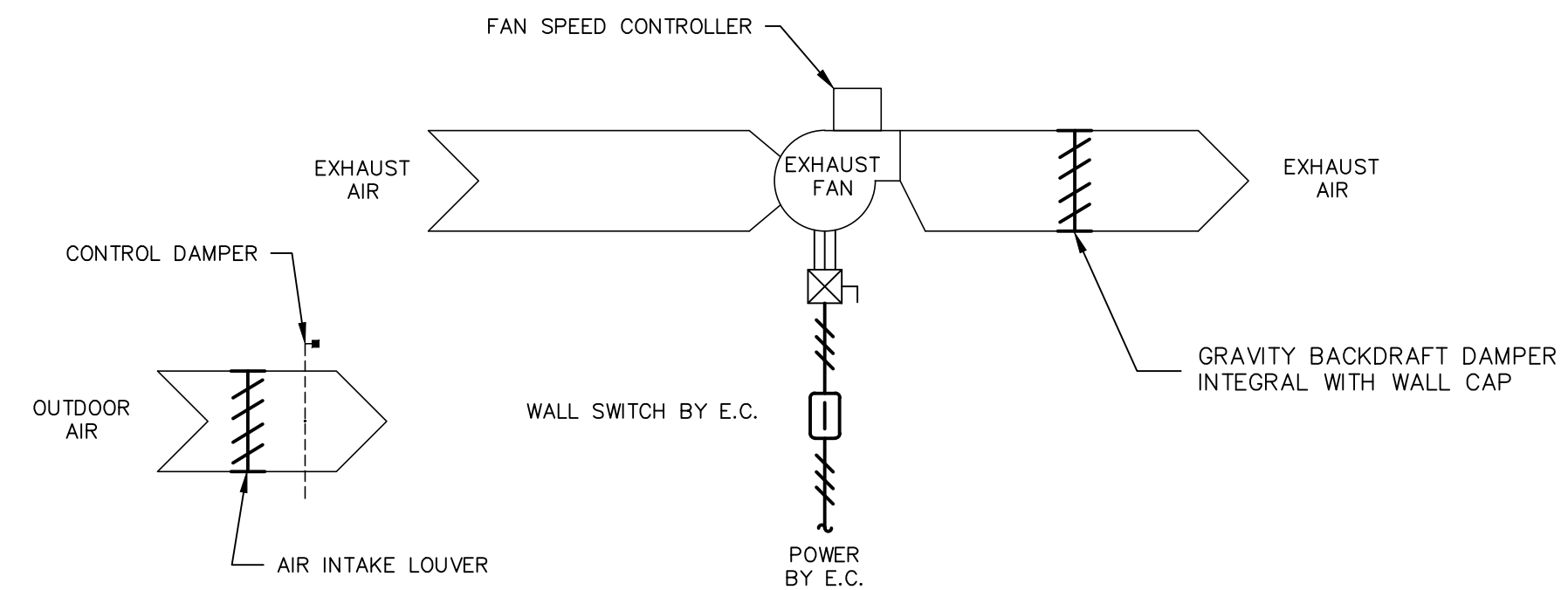
N.T.S.



SEQUENCE OF OPERATION:
1. EXHAUST FAN SHALL BE CONTROLLED BY A WALL SWITCH IN THE SPACE.

**EF-2
EXHAUST FAN CONTROL DIAGRAM**

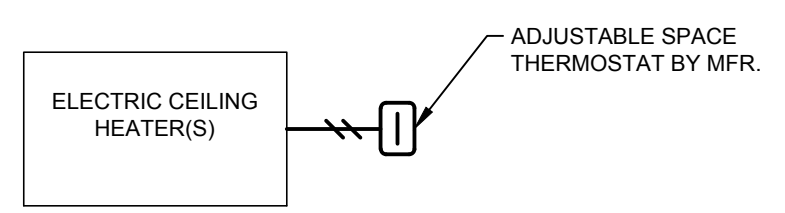
N.T.S.



SEQUENCE OF OPERATION:
1. T.C.C. TO INTERLOCK EXHAUST FAN OPERATION WITH CONTROL DAMPER ON INTAKE LOUVER. CONTROL DAMPER TO FAIL IN THE OPEN POSITION.
2. EXHAUST FAN SHALL RUN CONTINUOUSLY 24/7/365.

**EF-3&4
EXHAUST FAN CONTROL DIAGRAM**

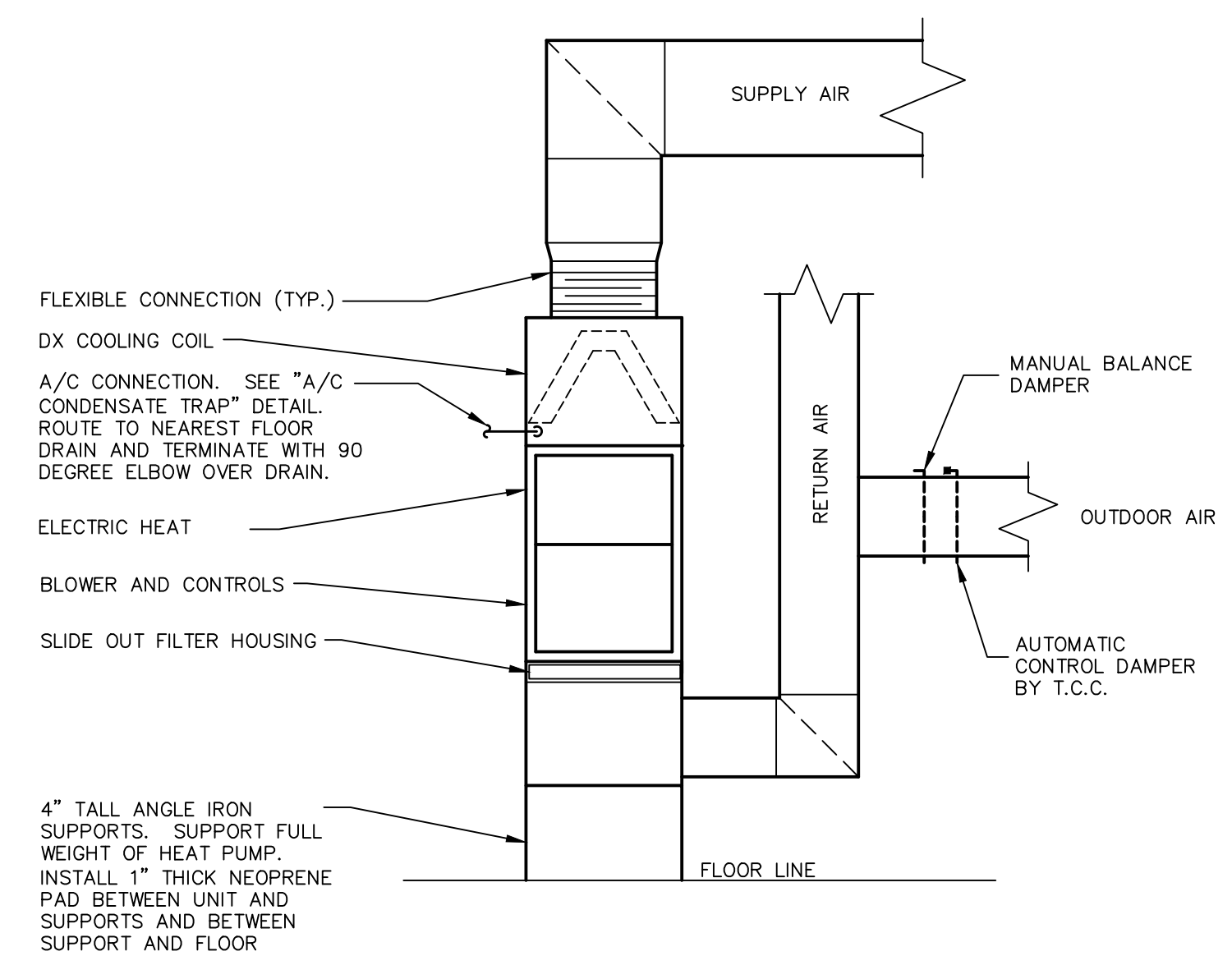
N.T.S.



SEQUENCE OF OPERATION:
THE CEILING HEATER SHALL BE CYCLED ON/OFF BASED ON A THERMOSTAT IN THE SPACE. UPON A DROP IN SPACE TEMPERATURE BELOW SETPOINT (ADJ), THE CEILING HEATER SHALL BE SWITCHED ON.

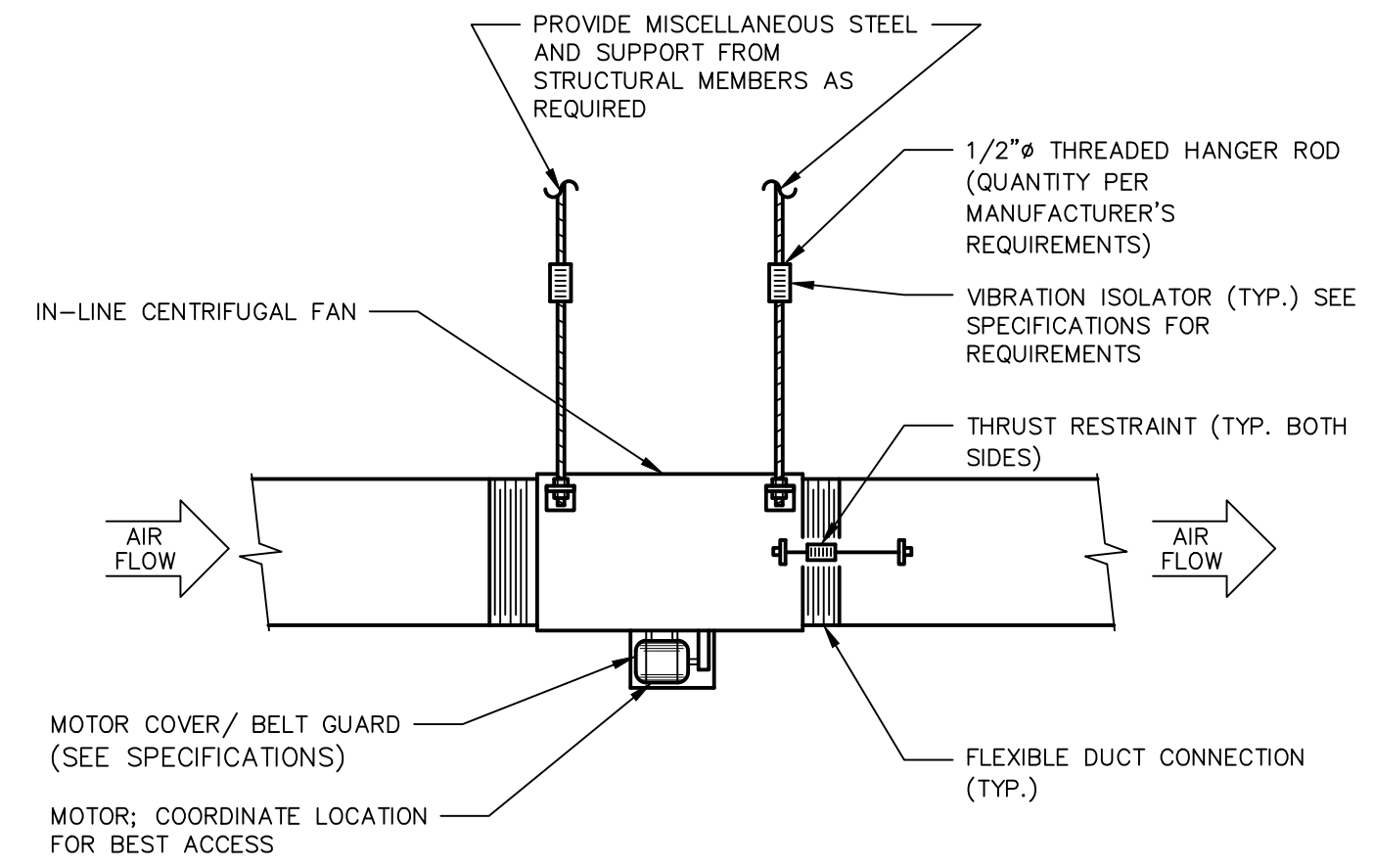
**ECH-1
ELECTRIC CEILING HEATER CONTROL DIAGRAM**

N.T.S.



HEAT PUMP DETAIL

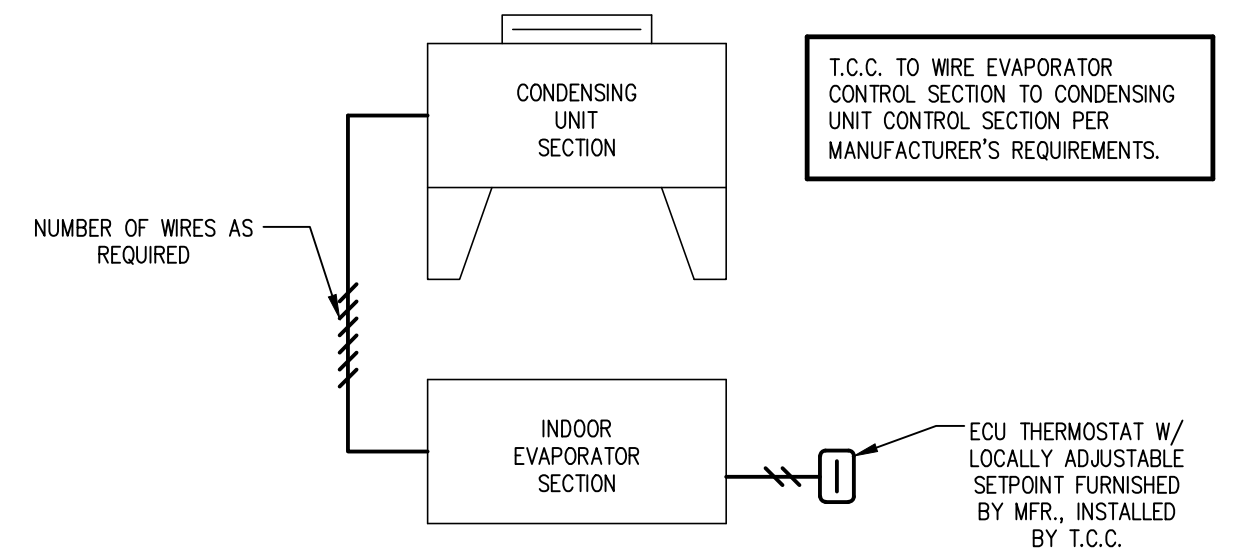
N.T.S.



NOTES:
1. SET FAN DEAD LEVEL BOTH DIRECTIONS.
2. ADJUST ISOLATORS AND FLEXIBLE CONNECTIONS TO AVOID VIBRATION TRANSMISSION.

IN-LINE CENTRIFUGAL FAN DETAIL

N.T.S.



**SPLIT A/C SYSTEM (ECU-1/ACCU-1)
CONTROL DIAGRAM**

N.T.S.

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ELECTRICAL SYMBOL LEGEND

NOTES:

1. COORDINATE ALL DEVICE COLORS WITH THE ARCHITECT
2. SWITCHES SHALL BE MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.
3. RECEPTACLES TO BE MOUNTED AT 18" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.
4. REFER TO FIRE ALARM SPECIFICATIONS FOR DETAILS AND ADDITIONAL INFORMATION.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX TAMPER-RESISTANT RECEPTACLE. HUBBELL #HBL5362TR (SPECIFICATION GRADE).		MANUAL FIRE ALARM SENDING STATION. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.
	HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX TAMPER-RESISTANT GROUND FAULT INTERRUPTER TYPE RECEPTACLE. HUBBELL #GFTWR20 (SPECIFICATION GRADE).		FIRE ALARM SYSTEM AUTOMATIC DETECTOR. SUBSCRIPT INDICATES TYPE. CO - CARBON MONOXIDE DETECTOR. ELEV - ELEVATOR RECALL SMOKE DETECTOR FT - FIXED TEMPERATURE (190F) HEAT DETECTOR, CEILING MOUNTED. SMP - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED. SMP/512 - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 512HZ SOUNDER BASE
	HEAVY DUTY 20 AMP, 125 VOLT, TAMPER AND WEATHER RESISTANT DUPLEX GROUND FAULT INTERRUPTER TYPE RECEPTACLE. HUBBELL #GFTWRST20 (SPECIFICATION GRADE) WITH WEATHERPROOF "IN-USE" COVERPLATE. MOUNT VERTICALLY AT 24" AFG TO CENTERLINE UNLESS OTHERWISE NOTED.		FIRE ALARM SYSTEM NOTIFICATION DEVICE, WALL-MOUNTED AT 82" AFF TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES TYPE. NO - NO SUBSCRIPT - COMBINATION HORN / STROBE. V - VISUAL-ONLY
	TWO HEAVY DUTY 20 AMP, 125 VOLT, DUPLEX TAMPER-RESISTANT RECEPTACLES. HUBBELL #HBL5362TR (SPECIFICATION GRADE). MOUNT IN COMMON BOX WITH COMMON PLATE.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (CONTROL TYPE).
	SPECIAL PURPOSE OUTLET. REFER TO DRAWINGS FOR DESCRIPTION. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (INDIVIDUAL TYPE).
	BOX AROUND DEVICE INDICATES SURFACE MOUNTED IN 4" SQUARE BOX WITH EXPOSED WORK COVER UNLESS OTHERWISE NOTED.		FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (MONITOR TYPE).
	STANDARD STEEL JUNCTION BOX WITH COVER. LOCATE AND CONNECT AS DIRECTED.		FIRE ALARM SYSTEM CONTROL PANEL.
	POINT OF CONNECTION TO ELECTRIFIED EQUIPMENT. VERIFY EXACT LOCATION WITH RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.		FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL.
	AD - AUTOMATIC DOOR (120V).		SPRINKLER SYSTEM TAMPER SWITCH. FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. VERIFY LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
	HD - HAND DRYER (1500W, 120V).		SPRINKLER SYSTEM FLOW SWITCH. FURNISHED AND INSTALLED BY FIRE PROTECTION CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR. VERIFY LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
	TCP - TEMPERATURE CONTROL PANEL (120V).		FLUSH-MOUNTED 1-GANG COMMUNICATIONS OUTLET BOX. USE 5"SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL). REFER TO TYPICAL FLUSH COMMUNICATIONS OUTLET ROUGH-IN DETAIL.
	MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR. CONNECT AS DIRECTED BY MOTOR SUPPLIER.		TV - TELEVISION OUTLET. LOCATE ADJACENT TO POWER RECEPTACLE.
	FUSIBLE DISCONNECT SWITCH, HEAVY DUTY TYPE, (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPLETE WITH FUSETRONS SIZED TO PROTECT MOTOR, EQUIPMENT OR CONDUCTORS (WHICHEVER IS APPLICABLE). SIZE, POLES, AND TYPE AS INDICATED. HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK.		DOORBELL. REFER TO DETAIL.
	MANUAL MOTOR STARTER WITH NEON PILOT LIGHT. ALLEN-BRADLEY #600TQX216. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.		DOORBELL CHIME AND STROBE. REFER TO DETAIL.
	UTILITY METER. REFER TO DETAILS.		CARD READER (BY ACCESS CONTROL VENDOR). PROVIDE FLUSH-MOUNTED 1-GANG COMMUNICATIONS OUTLET BOX AT 46" AFF WITH 1" C STUBBED INTO ACCESSIBLE CEILING. USE 5"SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL). COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR.
	208/120V, 3ø, 4W OR 208/120V, 1ø, 3W PANELBOARD. REFER TO PANELBOARD SCHEDULE AND/OR SPECIFICATIONS FOR DETAILS.		
	DISTRIBUTION PANEL. REFER TO PANELBOARD SCHEDULE AND/OR SPECIFICATIONS FOR DETAILS.		
	PUSH BUTTON. REFER TO DRAWINGS FOR DETAILS.		
	HEAVY DUTY 20 AMP, SINGLE POLE SWITCH. HUBBELL #HBL1221.		
	HEAVY DUTY 20 AMP, THREE-WAY SWITCH. HUBBELL #HBL1223.		
	"WP" SUBSCRIPT INDICATES TO PROVIDE WEATHERPROOF COVER WITH HINGE ON TOP.		
	SINGLE-LEVEL SWITCH TYPE OCCUPANCY SENSOR. WATTSTOPPER #PW-301 (PASSIVE INFRARED).		
	SINGLE-LEVEL 0-10V DIMMING SWITCH TYPE OCCUPANCY SENSOR. WATTSTOPPER #DW-311 (DUAL-TECHNOLOGY).		
	ELECTRONIC COUNTDOWN TIMER WITH "HOLD" FUNCTION AND PRESET TIMES (5/10/15/30 MIN). INTERMATIC #E1200.		
	BOX AROUND DEVICE INDICATES SURFACE MOUNTED IN 4" SQUARE BOX WITH EXPOSED WORK COVER.		
	LOW-VOLTAGE SINGLE-RELAY POWERPACK. WATTSTOPPER #BZ-150.		
	LOW-VOLTAGE CEILING MOUNT OCCUPANCY SENSOR. WATTSTOPPER #DT-300 (DUAL-TECHNOLOGY).		
	LIGHTING CONTROL REFERENCE TAG. REFER TO DETAILS FOR INFORMATION.		
	LED LIGHTING FIXTURES. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.		
	CEILING OR WALL MOUNTED EXIT SIGN. SHADED AREA INDICATES LOCATION OF FACE(S). ARROWS INDICATE CHEVRONS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.		
	EMERGENCY LIGHTING FIXTURE. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.		
	EMERGENCY LIGHTING REMOTE HEAD UL LISTED FOR USE FOR WET LOCATIONS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS.		
	OUTDOOR 120V PHOTOCELL. TORK #2021.		
	CONCEALED BRANCH CIRCUIT HOMERUN. FOR NORMAL BRANCH CIRCUIT WRING, CONTRACTOR MAY COMBINE UP TO THREE HOMERUNS IN ONE RACEWAY ON A WYE SYSTEM AND TWO HOMERUNS IN ONE RACEWAY ON A DELTA SYSTEM. #12 AWG MINIMUM SIZE CONDUCTORS UNLESS NOTED OTHERWISE. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN CIRCUITS. REFER TO SPECIFICATIONS FOR RACEWAY TYPE.		
	RACEWAY AND CONDUCTORS CONCEALED ABOVE CEILING OR IN WALL AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS OTHERWISE NOTED. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN CIRCUITS. REFER TO SPECIFICATIONS FOR RACEWAY TYPE.		
	BRANCH CIRCUIT UNDER FLOOR SLAB, UNDERGROUND OR ABOVE ACCESSIBLE CEILING OF FLOOR BELOW. ALL BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR. NEUTRAL CONDUCTOR SHALL NOT BE SHARED BETWEEN CIRCUITS. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTORS.		

ABBREVIATION LEGEND

SYMBOL	DESCRIPTION
#"	NUMBER INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
"c"	SUBSCRIPT "c" INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP TO CENTERLINE.
CLG	CEILING
DP	DISTRIBUTION PANEL
EC	ELECTRICAL CONTRACTOR
EMT	GALVANIZED ELECTRIC METALLIC TUBING (THINWALL), UL LISTED
EWC	ELECTRIC WATER COOLER. PROVIDE WITH GFI-TYPE RECEPTACLE. LOCATE PER MANUFACTURER'S SHOP DRAWINGS.
FBO	FURNISHED BY OTHER TRADES, BUT INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
FPC	FIRE PROTECTION CONTRACTOR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED, RIGID, HEAVY WALL CONDUIT, UL LISTED
MC	MECHANICAL CONTRACTOR (HVAC)
NL	NIGHT LIGHT
PAN	PANELBOARD
PC	PLUMBING CONTRACTOR
PVC	CARLON PLASTIC CONDUIT, HEAVY WALL TYPE, POLYVINYL CHLORIDE, UL LISTED, SCHEDULE 40 UNLESS NOTED OTHERWISE.
REF	REFRIGERATOR
SPD	SURGE PROTECTION DEVICE
TR	TAMPER RESISTANT
TV	TELEVISION. COORDINATE HEIGHT WITH ARCHITECT.
WP	WEATHERPROOF

ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

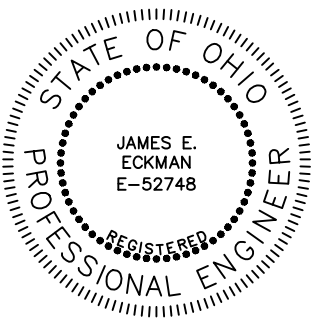
1. FORWARD REACH WITH NO OBSTRUCTION:
 - A. LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - B. POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - C. DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
2. SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - A. MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.

FUTURE FIRE ALARM DEVICES

THE TYPICAL APARTMENT PLANS SHOW LOCATIONS OF FUTURE FIRE ALARM NOTIFICATION DEVICES AS REQUIRED BY OBC 907.5.2.3.3. THE FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATION SHALL BE SIZED TO ACCOMMODATE THESE FUTURE DEVICES.

ELECTRICAL GENERAL NOTES

1. THE GENERAL NOTES LISTED HERE APPLY TO ALL ELECTRICAL DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
2. SEE CODED NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
3. FIELD VERIFY EXISTING CONDITIONS.
4. COORDINATE ELECTRICAL WORK WITH ALL CONTRACTORS ON SITE (GENERAL TRADES, PLUMBING, FIRE PROTECTION, HVAC, ETC) PRIOR TO COMMENCEMENT OF DEMOLITION/CONSTRUCTION WORK.
5. THE ELECTRICAL DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, LIGHTING, AND DEVICES UNLESS DIMENSIONS ARE GIVEN FOR CLEARANCES, ETC. LIGHTING, DEVICES AND ELECTRICAL EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFIRMED WITH-IN THE ACTUAL WORK AREA. CONTRACTORS, IN THEIR BIDS, ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN ELECTRICAL INSTALLATION TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT, OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
6. PHASING - SEE DIVISION 1 PROJECT SPECIFICATION PHASING DOCUMENTS FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER.
7. MAINTAIN REQUIRED RIGGING ACCESS CLEARANCES. COORDINATE CLEARANCE REQUIREMENTS WITH OTHER TRADES.
8. E.C. IS TO COORDINATE ALL MASONRY PENETRATION LOCATIONS AND SIZES WITH G.C.
9. AN ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL ITEMS TO REMAIN OR BE REMOVED. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND REMOVE AND/OR RELOCATE ANY ITEM WHICH INTERFERES WITH NEW CONSTRUCTION.
10. POWER AND TELECOM RISER PULL BOXES MAY NOT BE SHOWN. PROVIDE PULL BOXES AT LOCATIONS REQUIRED, IN NO CASE SHALL A FEEDER CONDUIT HAVE BENDS OF MORE THEN 270' WITHOUT THE INSTALLATION OF A PULL BOX.
11. PROVIDE FIRESEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS AND ASSEMBLIES. SEE DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. EC TO COORDINATE ELECTRICAL AND TELECOMMUNICATIONS DEVICE LOCATIONS WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN. IF ELEVATIONS ARE NOT PROVIDED ON DOCUMENTS, EC SHALL COORDINATE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT. DEVICE REQUIRED TO BE RELOCATED DUE TO LACK OF COORDINATION WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
13. REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF MOBILITY UNITS AND SIGHT/HEARING UNIT.



J. E. Eckman 3/31/23
SIGNATURE DATE

REVISIONS

NO.	DESCRIPTION	DATE

NOTES & LEGENDS - ELECTRICAL

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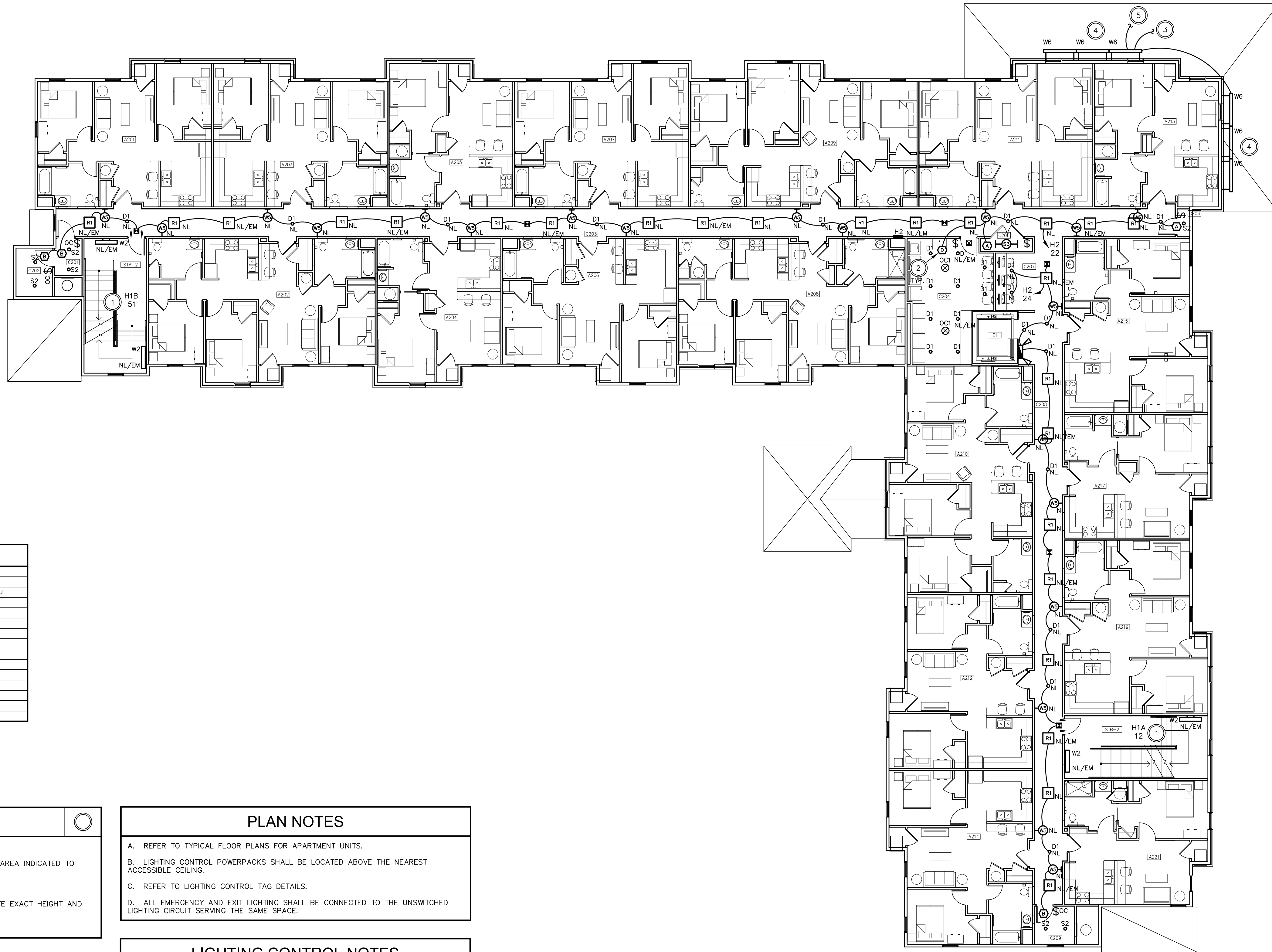
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82A21

PROJECT NUMBER

E001

DRAWING NUMBER



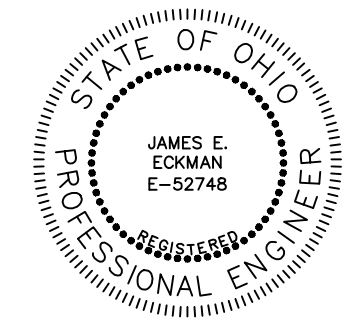
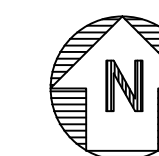
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A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM S&H	STB-2	STAIR B

CODED NOTES	
○	1. LIGHTING CIRCUIT FOR ALL FIXTURES IN STAIRWELL.
○	2. LIGHTING CONTROL TAG (TYP). CONNECT ALL LIGHTING IN AREA INDICATED TO CIRCUIT SHOWN.
○	3. DOWN TO CANOPY LIGHTING.
○	4. FIXTURE MOUNTED ABOVE BUILDING LETTERING. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT.
○	5. UP TO TOWER LIGHTING

PLAN NOTES
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
B. LIGHTING CONTROL POWERPACKS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING.
C. REFER TO LIGHTING CONTROL TAG DETAILS.
D. ALL EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED TO THE UNSWITCHED LIGHTING CIRCUIT SERVING THE SAME SPACE.

LIGHTING CONTROL NOTES
A. CORRIDOR LIGHTING CONTROLS: a. 2X2 FIXTURES IN THE CORRIDORS ARE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS AND WILL TURN ON/OFF WITH OCCUPANCY. CONNECT TO UNSWITCHED LIGHTING CIRCUIT. b. DOWNLIGHTS AND WALL SCONCES ARE ALWAYS-ON "NIGHT-LIGHTS". CONNECT TO UNSWITCHED LIGHTING CIRCUIT.
B. STAIRWELL LIGHTING CONTROLS: a. STAIRWELL FIXTURE ARE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS AND WILL DIM TO 50% WHEN NO OCCUPANCY IS DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT.

LIGHTING - SECOND FLOOR PLAN - ELECTRICAL



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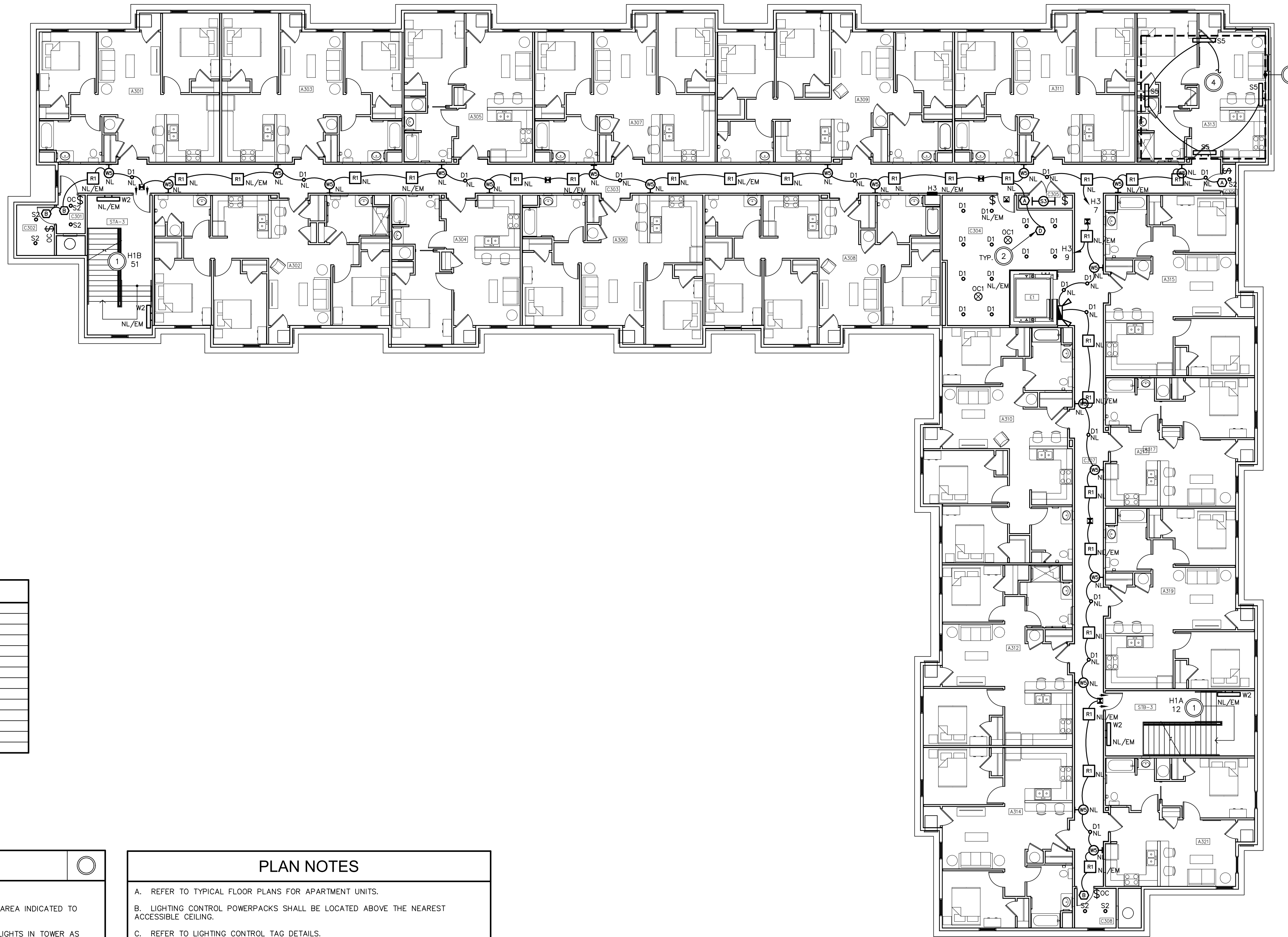
LIGHTING - SECOND FLOOR - ELEC.
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DAYTON OHIO



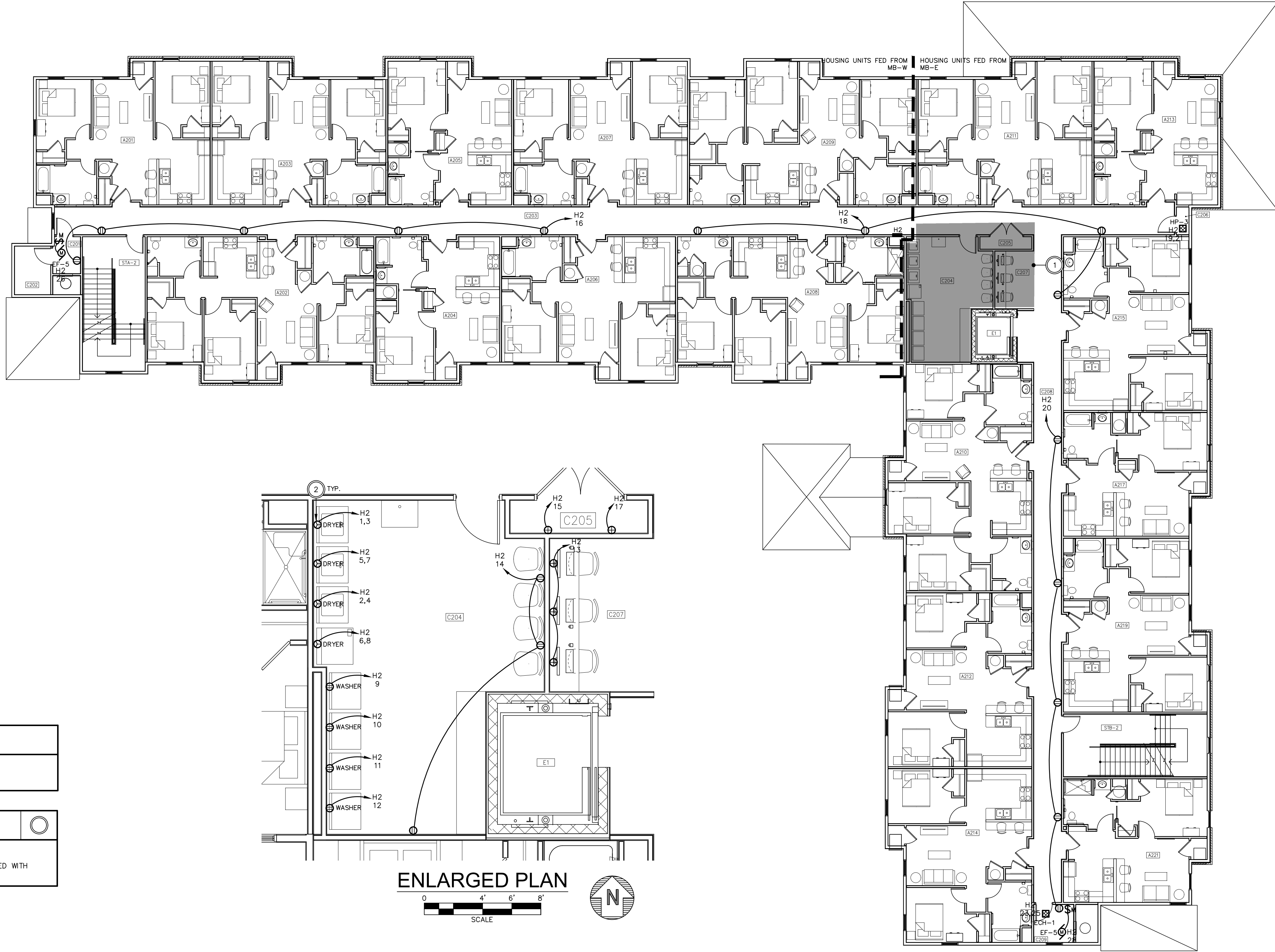
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82A21
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E102
DRAWING NUMBER



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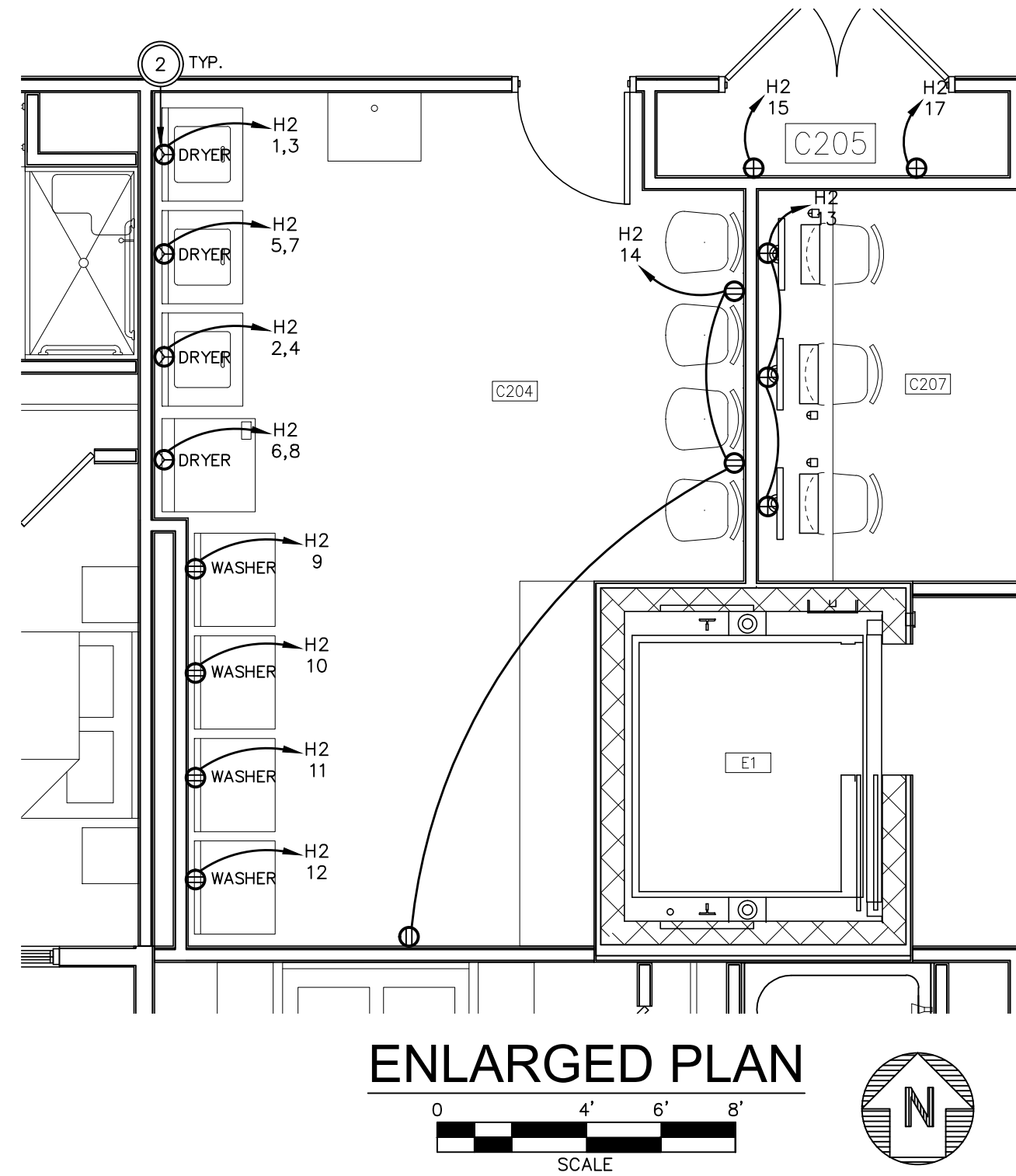
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A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
A210	THREE BEDROOM	C207	COMPUTERS
A211	TWO BEDROOM	C208	CORRIDOR
A212	TWO BEDROOM	C209	TRASH
A213	ONE BEDROOM	E1	ELEV.
A214	TWO BEDROOM	STA-2	STAIR A
A215	TWO BEDROOM S&H	STB-2	STAIR B

PLAN NOTES

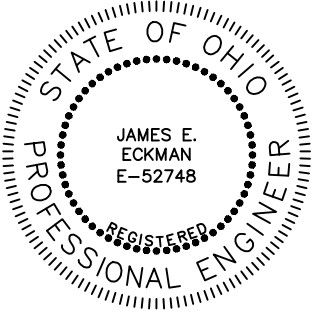
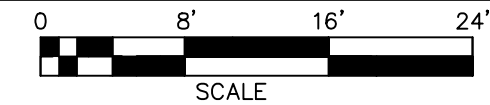
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
 B. REFER TO MECHANICAL EQUIPMENT SCHEDULE.

CODED NOTES

1. REFER TO ENLARGED PLAN ON THIS SHEET.
 2. NEMA 14-30R RECEPTACLE FOR DRYER. CONNECT TO PANEL INDICATED WITH (3)-#10, (1)-#10G IN 3/4" C. TYPICAL FOR FOUR.



POWER - SECOND FLOOR PLAN - ELECTRICAL



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POWER - SECOND FLOOR - ELEC.

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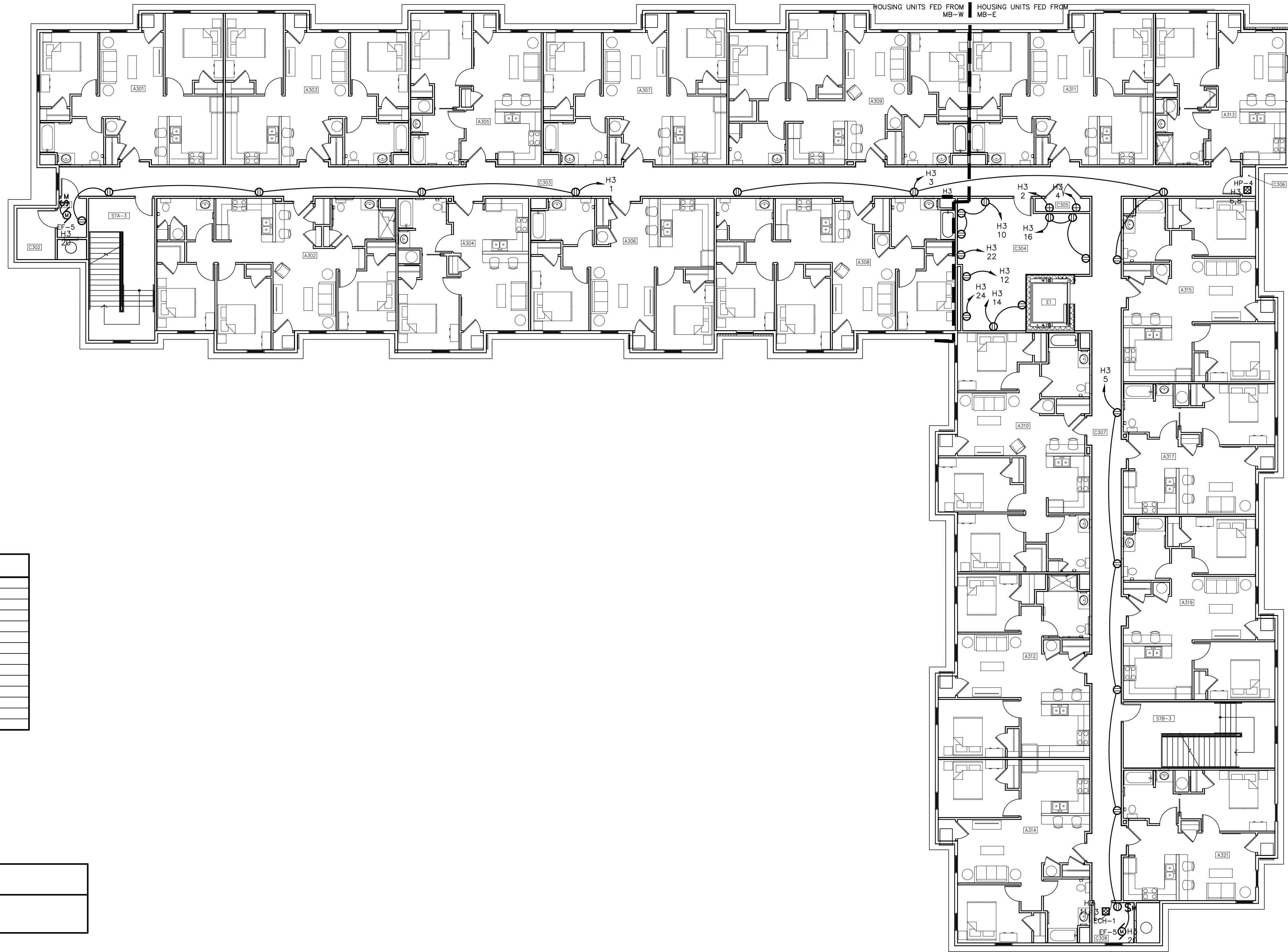
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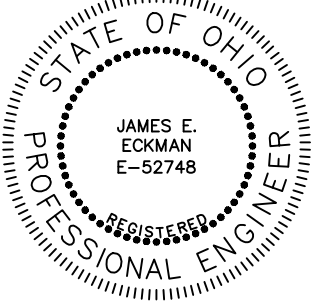
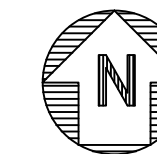
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PLAN NOTES
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
B. REFER TO MECHANICAL EQUIPMENT SCHEDULE.

POWER - THIRD FLOOR PLAN - ELECTRICAL



J. E. Eckman
 SIGNATURE DATE 3/31/23

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POWER - THIRD FLOOR - ELEC.
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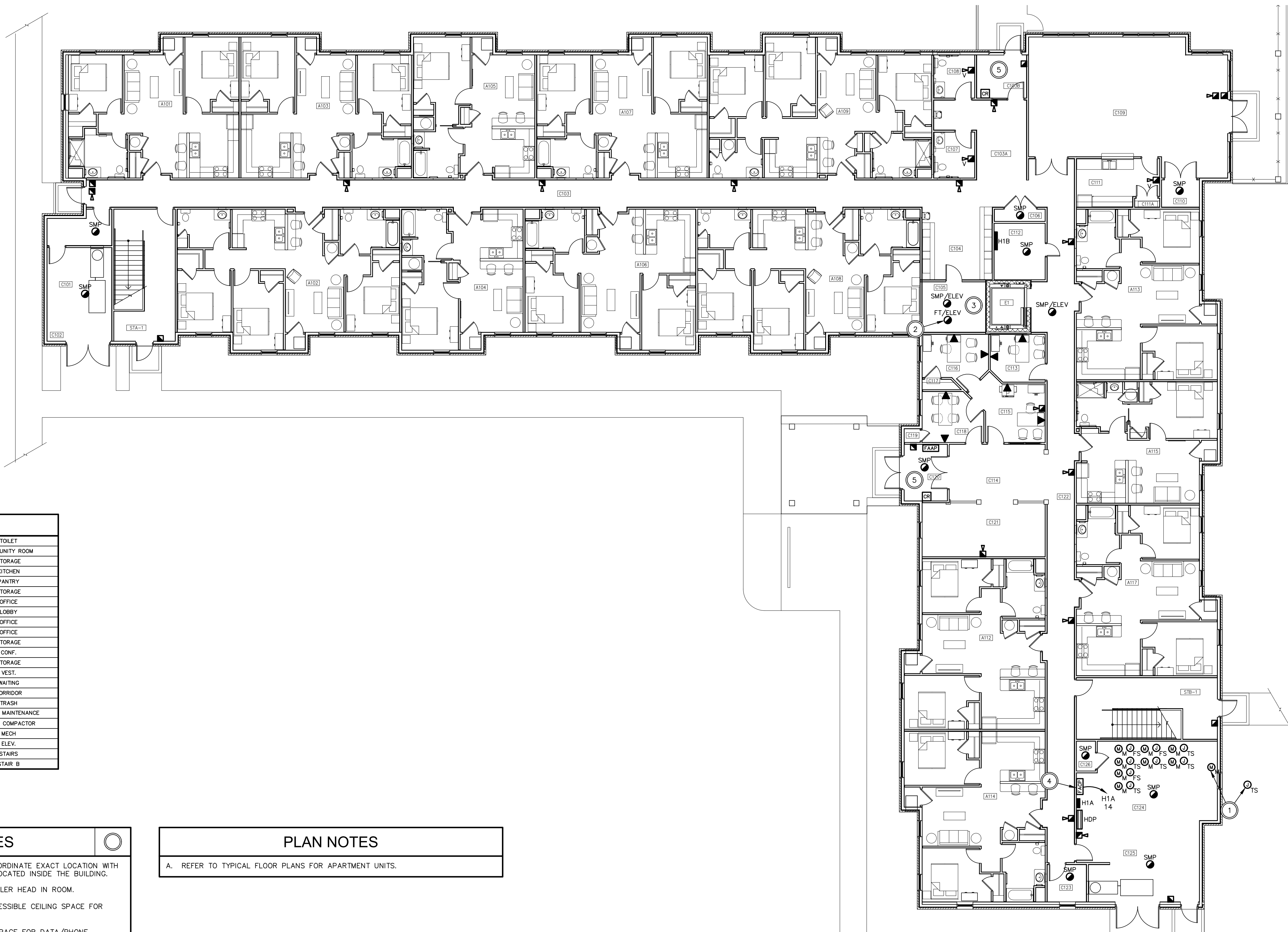


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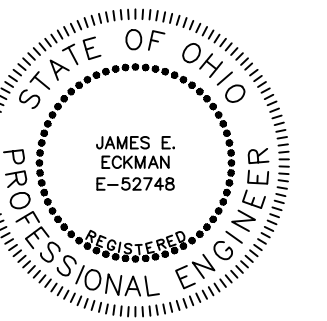
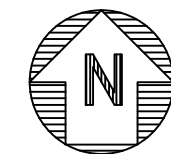
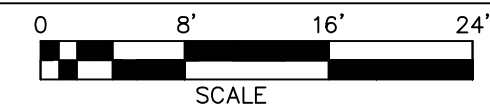


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	TWO BEDROOM	C116	OFFICE
A113	TWO BEDROOM	C117	STORAGE
A114	TWO BEDROOM	C118	CONF.
A115	ONE BEDROOM MU	C119	STORAGE
A117	TWO BEDROOM	C120	VEST.
C101	TRASH	C121	WAITING
C102	TRASH COMPACTOR	C122	CORRIDOR
C103	CORRIDOR	C123	TRASH
C103A	CORRIDOR	C124	MECH / MAINTENANCE
C103B	VEST	C125	TRASH COMPACTOR
C104	MAIL	C126	MECH
C105	ELEV. MECH	E1	ELEV.
C106	DATA	STA-1	STAIRS
C107	TOILET	STB-1	STAIR B

CODED NOTES	
1.	TAMPER SWITCH AT POST-INDICATOR VALVE. COORDINATE EXACT LOCATION WITH FPC. FIRE ALARM ADDRESSABLE MODULE SHALL BE LOCATED INSIDE THE BUILDING.
2.	LOCATE HEAT DETECTOR WITHIN 2 FEET OF SPRINKLER HEAD IN ROOM.
3.	EXTEND 1" FROM ELEVATOR CONTROLLER TO ACCESSIBLE CEILING SPACE FOR DATA/PHONE CONNECTION.
4.	EXTEND 1" FROM FACP TO ACCESSIBLE CEILING SPACE FOR DATA/PHONE CONNECTION.
5.	INTERCOM SYSTEM WILL BE LOCATED IN THIS ROOM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH INTERCOM SYSTEM VENDOR.

PLAN NOTES
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

SYSTEMS - FIRST FLOOR PLAN - ELECTRICAL



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REVISIONS

SYSTEMS - FIRST FLOOR - ELEC.
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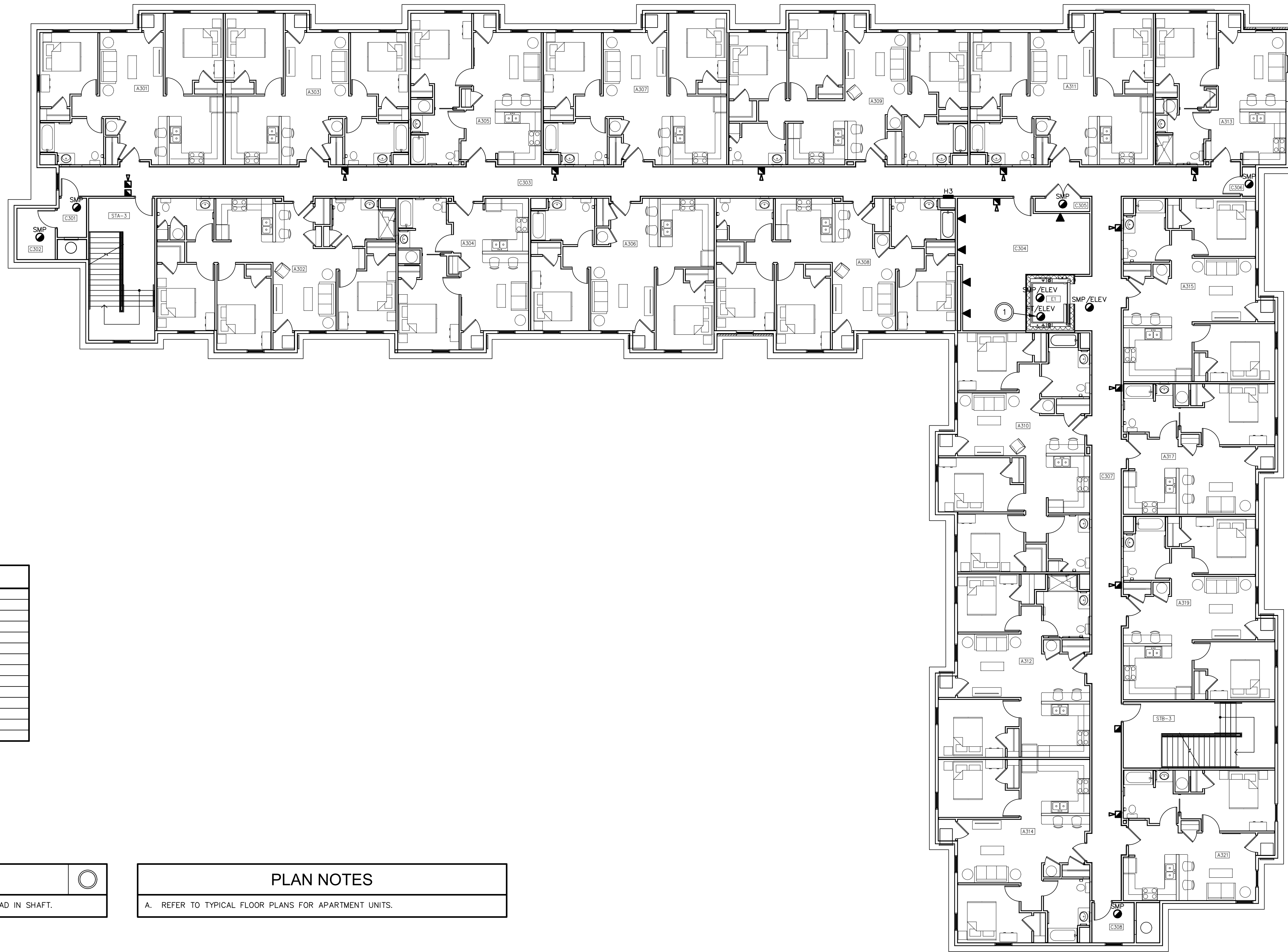


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 82A21
 PROJECT NUMBER

E301
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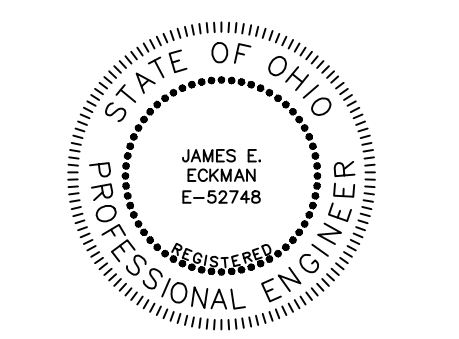
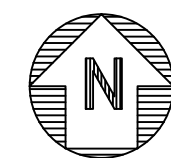
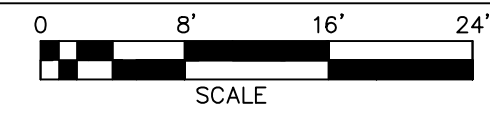


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
A310	THREE BEDROOM	C307	CORRIDOR
A311	TWO BEDROOM	C308	TRASH
A312	TWO BEDROOM MU	E1	ELEV.
A313	ONE BEDROOM MU	STA-3	STAIR A
A314	TWO BEDROOM	STB-3	STAIR B
A315	TWO BEDROOM		

CODED NOTES	
1.	LOCATE HEAT DETECTOR WITHIN 2 FEET OF SPRINKLER HEAD IN SHAFT.

PLAN NOTES	
A.	REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

SYSTEMS - THIRD FLOOR PLAN - ELECTRICAL



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SYSTEMS - THIRD FLOOR - ELEC.
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82A21
 PROJECT NUMBER

E303
 DRAWING NUMBER

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TYPICAL ONE-BEDROOM PANELBOARD SCHEDULE						
PANEL: ONE-BED		LOCATION: AS NOTED ON PLAN		MOUNTING: FLUSH		
SERVICE: 208/120 VOLTS,		1 PHASE,		3 WIRE, 60 HZ		
MAINS 200 AMPS,		LUGS,		200A CCT. BKR.		
FED FROM UTILITY METER		FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS				
LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. BKR. NO.	DESCRIPTION	LOAD
H-6743	HVAC UNIT VRP-1	45/2	1	2	WATER HEATER	P-4500
R-8000	RANGE	50/2	3	4	RECEPT. - REFRIGERATOR	R-1000
R-720	RECEPT. - LIVING ROOM	20/1	5	6	RECEPT. - KITCHEN COUNTER	R-360
R-900	RECEPT. - BEDROOM	20/1	7	8	RECEPT. - KITCHEN PENINSULA	R-540
R-360	RECEPT. - BATH/HALLWAY	20/1	9	10	RANGE HOOD	H-100
L-182	LIGHTING	20/1	11	12	KITCHEN EXHAUST	H-24
-	SPARE	20/1	13	14	SPARE	-
-	SPARE	20/1	15	16	SPARE	-
-	SPARE	20/1	17	18	SPARE	-
REMARKS:			LOAD LEGEND:			
1. RESIDENTIAL-STYLE LOADCENTER PANEL.			R - RECEPTACLES			
2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.			L - LIGHTING			
			P - PLUMBING			
			H - HVAC			

PLAN NOTES

A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE SHELVES.

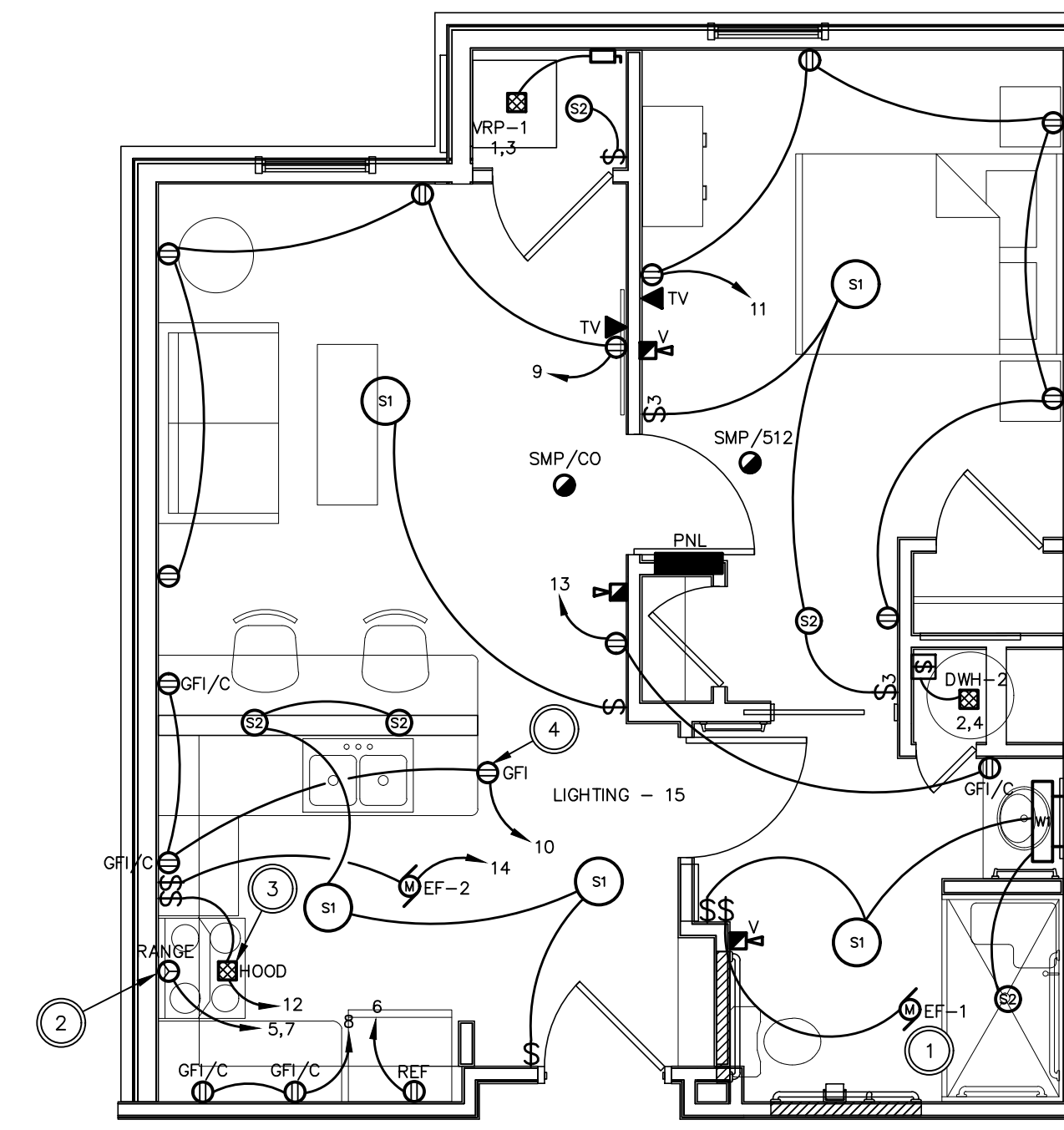
CODED NOTES

- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
- NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4"C.
- RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
- RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
- PROVIDE RECESSED JUNCTION BOX WITH COVER FOR FUTURE VISUAL FIRE ALARM NOTIFICATION DEVICE PER OBC 907.5.2.3.3. PROVIDE 3/4"C FROM BOX AND STUB INTO ACCESSIBLE CEILING SPACE IN CORRIDOR.
- RANGE HOOD WITH INTEGRAL SWITCH.

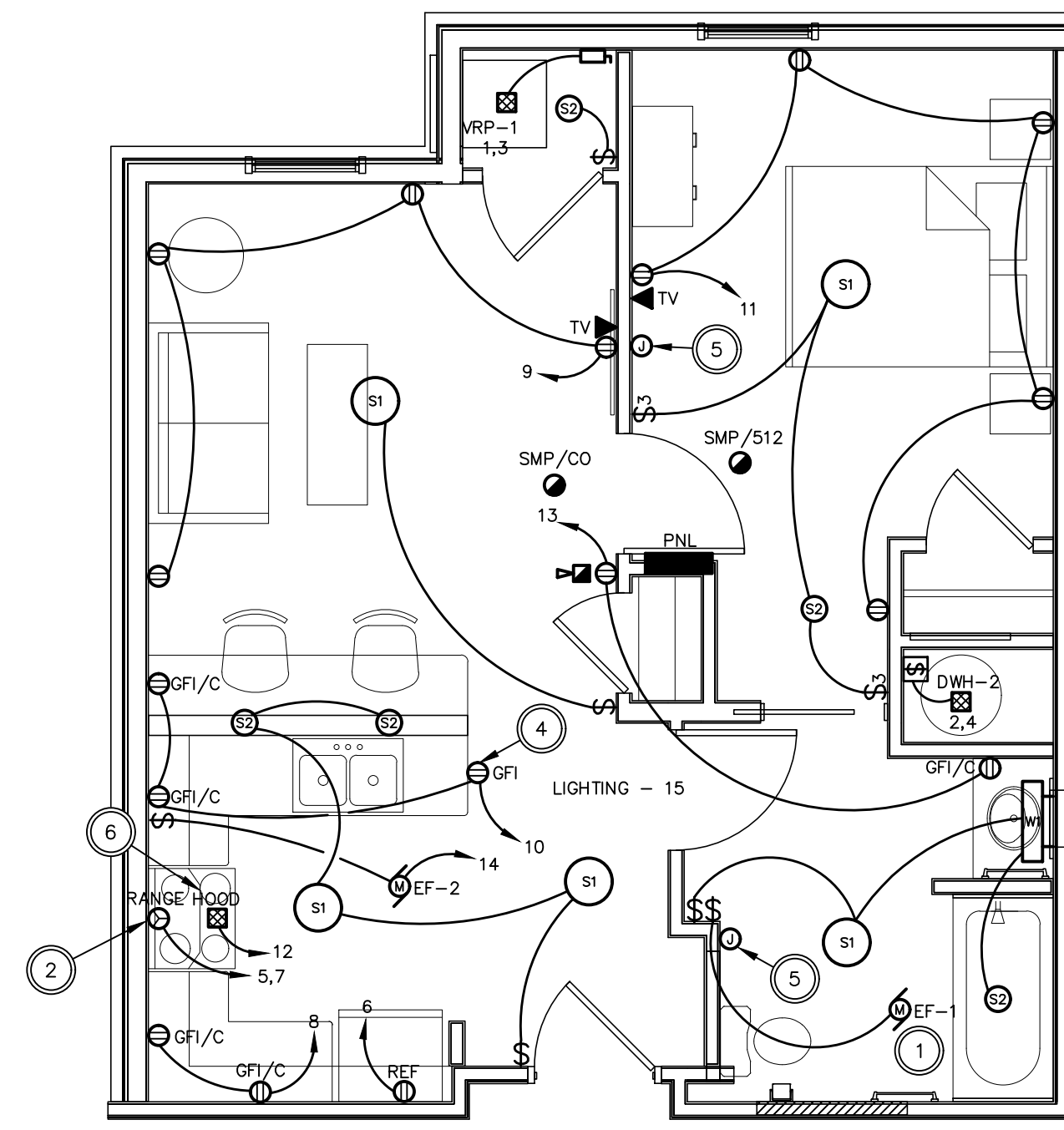
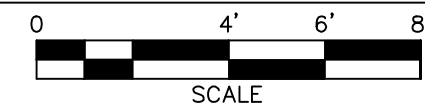
ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

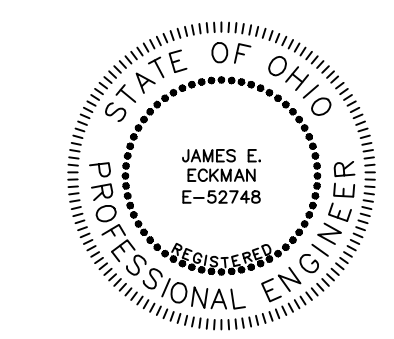
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.



NEW WORK - TYP. ONE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. ONE BEDROOM - ELECTRICAL



J. E. Eckman 3/31/23
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REVISIONS

TYPICAL ONE BEDROOM - ELEC.

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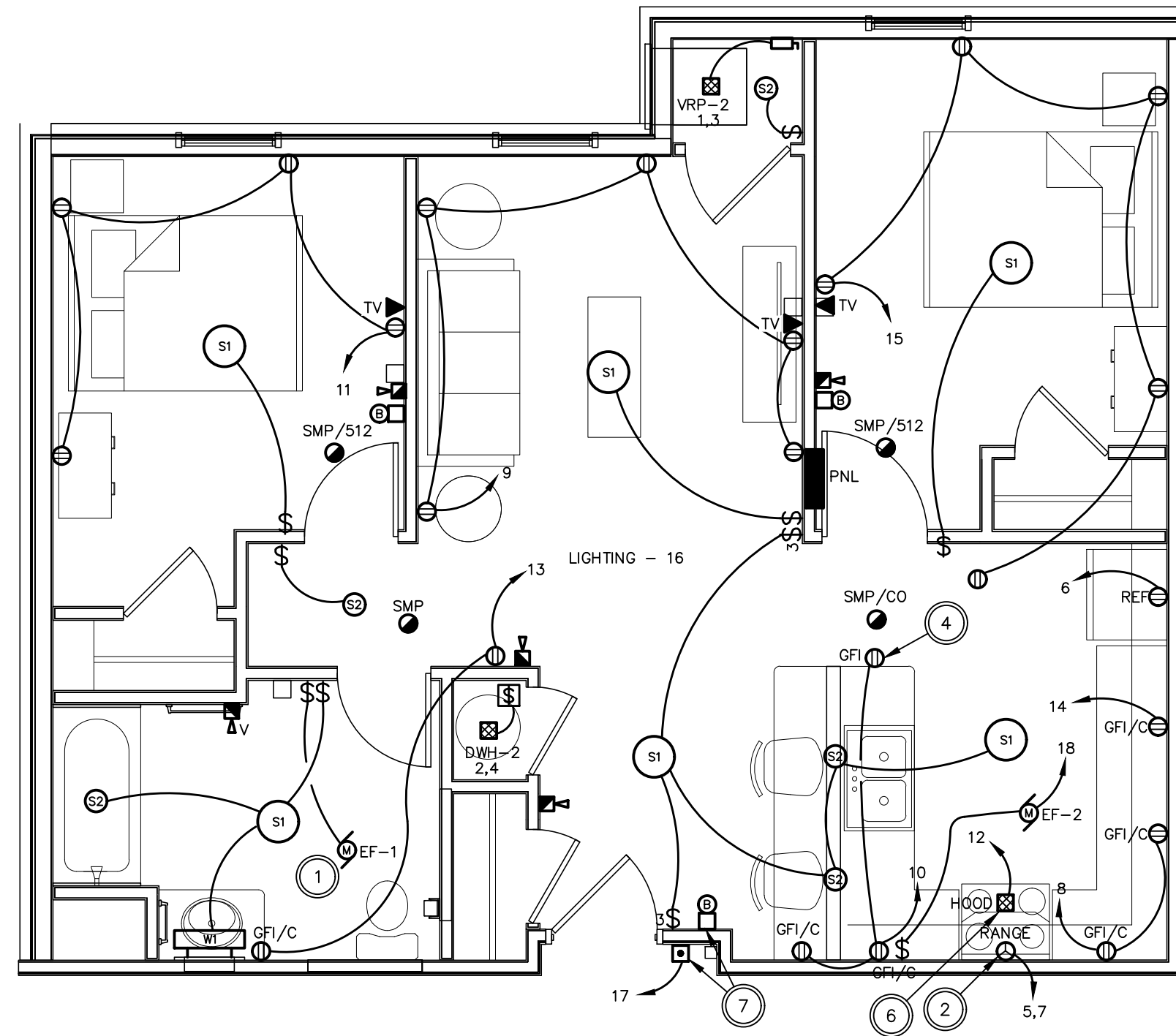
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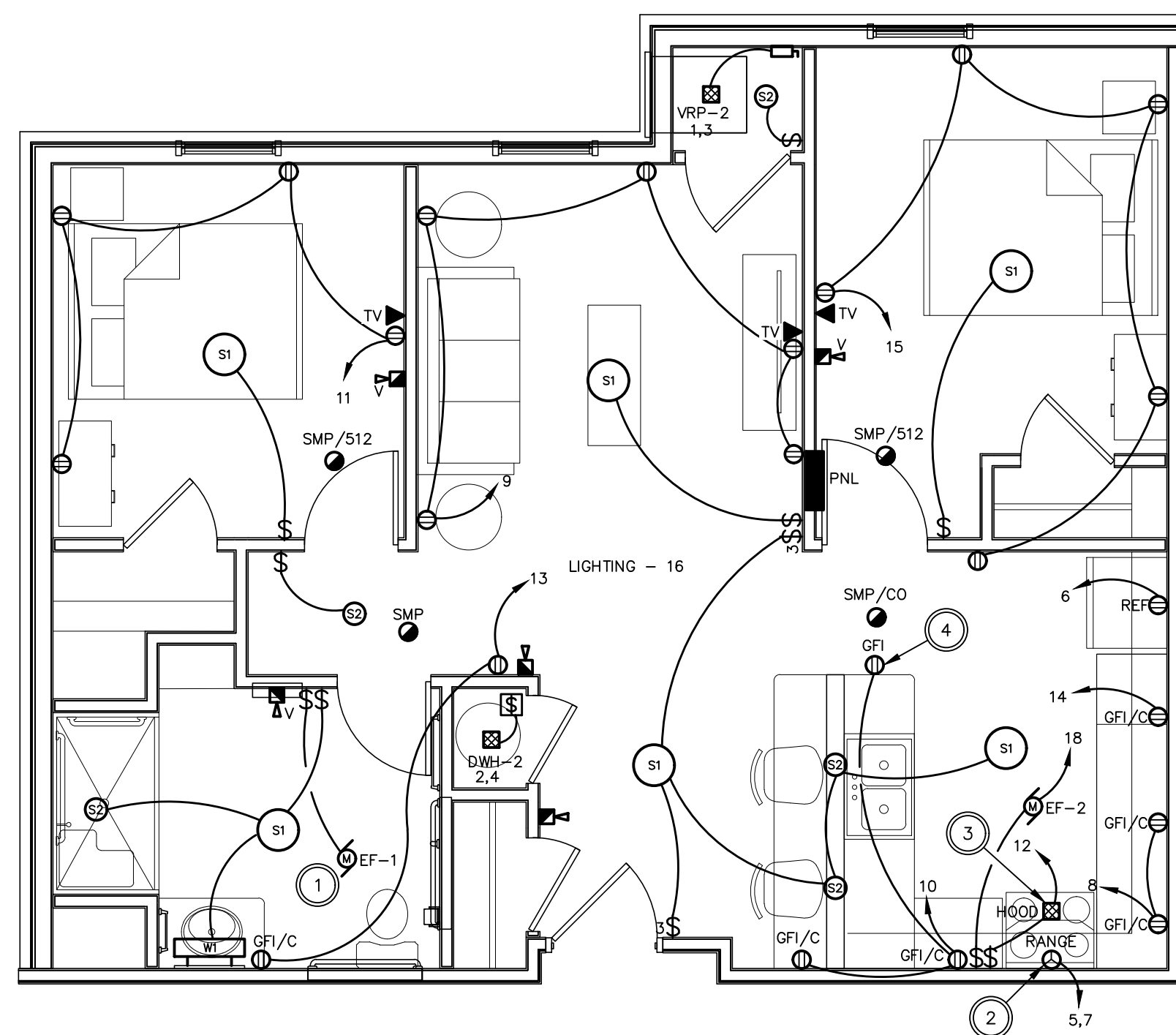
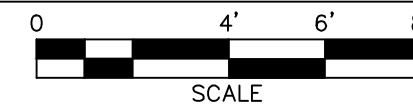
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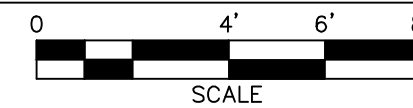
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NEW WORK - TYP. TWO BEDROOM S&H - ELECTRICAL



NEW WORK - TYP. TWO BEDROOM MU - ELECTRICAL



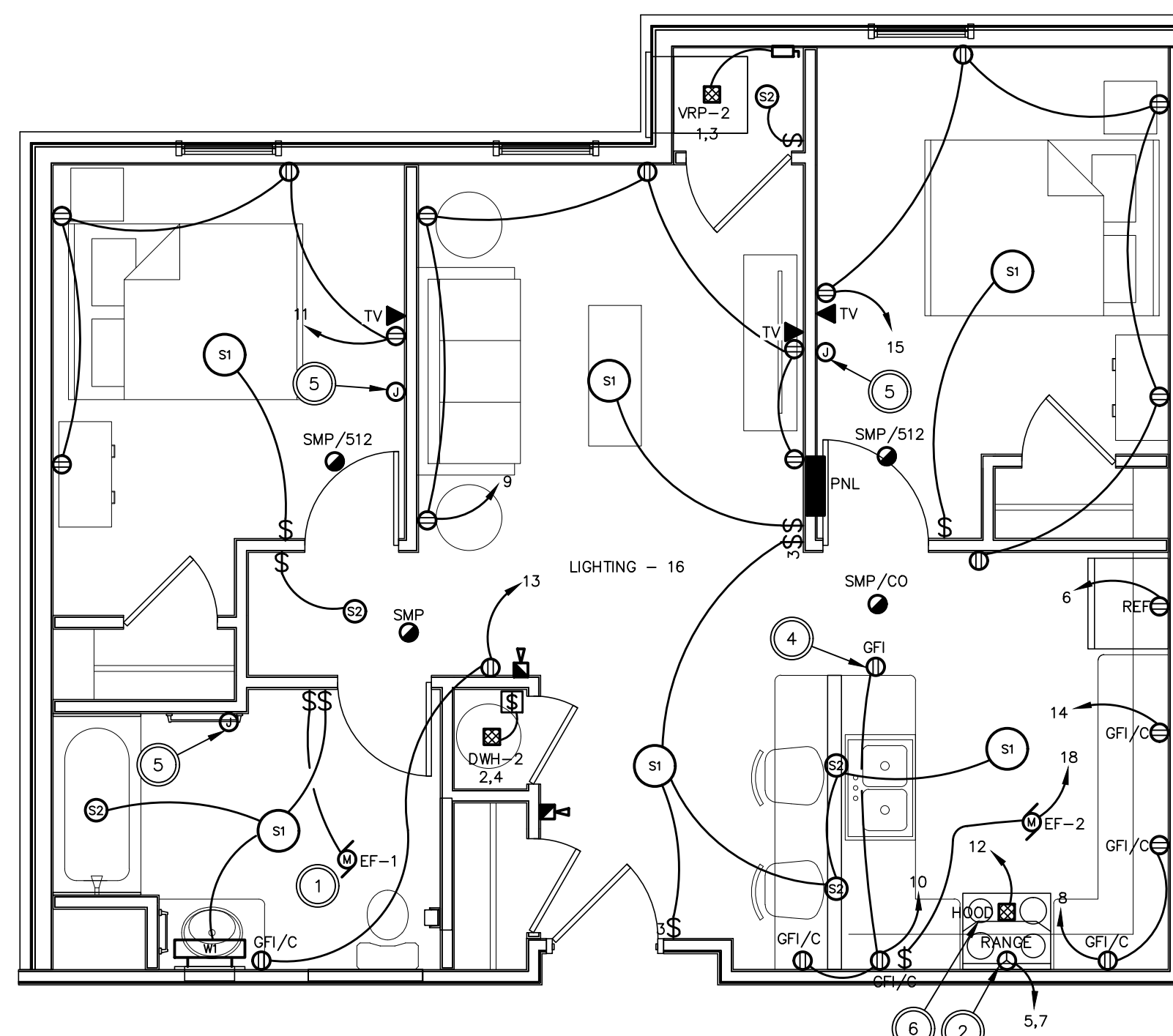
TYPICAL TWO-BEDROOM PANELBOARD SCHEDULE						
PANEL: TWO-BED		LOCATION: AS NOTED ON PLAN		MOUNTING: FLUSH		
SERVICE: 208/120 VOLTS,		1 PHASE,		3 WIRE, 60 HZ		
MAINS 200 AMPS,		- LUGS,		200A CCT. BKR.		
FED FROM UTILITY METER - FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS						
LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. BKR. NO.	DESCRIPTION	LOAD
H-7862	HVAC UNIT VRP-2	50/2	1	2	WATER HEATER	P-4500
R-8000	RANGE	50/2	5	8	RECEPT. - REFRIGERATOR	R-1000
R-900	RECEPT. - LIVING ROOM	20/1	9	10	RECEPT. - KITCHEN COUNTER	R-360
R-720	RECEPT. - BEDROOM	20/1	11	12	RECEPT. - KITCHEN PENINSULA	R-540
R-360	RECEPT. - BATH/HALLWAY	20/1	13	14	RANGE HOOD	H-100
R-900	RECEPT. - BEDROOM	20/1	15	16	RECEPT. - KITCHEN COUNTER	R-180
M-50	DOORBELL (S&H UNIT ONLY)	20/1	17	18	LIGHTING	L-204
-	SPARE	20/1	19	20	KITCHEN EXHAUST	H-24
-	SPARE	20/1	21	22	SPARE	-
-	SPARE	20/1	23	24	SPARE	-

REMARKS:
 1. RESIDENTIAL-STYLE LOADCENTER PANEL.
 2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.

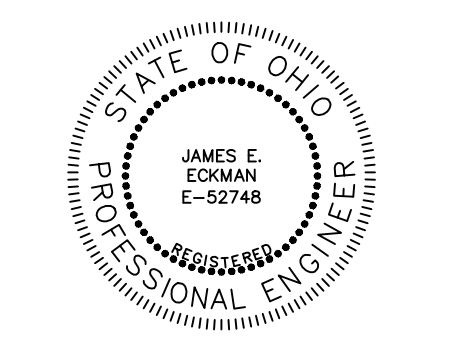
LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 P - PLUMBING
 H - HVAC

- PLAN NOTES**
- A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE RACKING.
- CODED NOTES**
- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
 - NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4" C.
 - RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
 - RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
 - PROVIDE RECESSED JUNCTION BOX WITH COVER FOR FUTURE VISUAL FIRE ALARM NOTIFICATION DEVICE PER OBC 907.5.2.3.3. PROVIDE 3/4" C FROM BOX AND STUB INTO ACCESSIBLE CEILING SPACE IN CORRIDOR.
 - RANGE HOOD WITH INTEGRAL SWITCH.
 - DOORBELL AND ASSOCIATED STROBE DEVICE (TYP.). REFER TO DETAIL.

- ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS**
- THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.



NEW WORK - TYP. TWO BEDROOM - ELECTRICAL



 3/31/23
 SIGNATURE DATE

REVISIONS

TYPICAL TWO BEDROOM - ELEC.
 GERMANTOWN CROSSING
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03/31/2023
 DATE
 82A21
 PROJECT NUMBER

E402
 DRAWING NUMBER

Drawing = M:\2022\212123\Design\Elec\ 212123_NEW_TYP_3_BR_ELEC.dwg Tab = E403 Username = schwabenc Date = Mar 29, 2023 -- 11:10am

TYPICAL THREE-BEDROOM PANELBOARD SCHEDULE							
PANEL: THREE-BED		LOCATION: AS NOTED ON PLAN		MOUNTING: FLUSH			
SERVICE: 208/120 VOLTS, 1 PHASE, 3 WIRE, 60 HZ							
MAINS 200 AMPS, — LUGS, 200A CCT. BKR.							
FED FROM UTILITY METER		FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS					
LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. NO.	CCT. BKR. NO.	DESCRIPTION	LOAD
H-8186	HVAC UNIT VRF-3 CIRCUIT #1	50/2	1	2	25/2	HVAC UNIT VRF-3 CIRCUIT #2	H-3993
R-8000	RANGE	50/2	3	4	30/2	WATER HEATER	P-4500
R-900	RECEPT. - LIVING ROOM	20/1	5	6	20/1	RECEPT. - REFRIGERATOR	R-1000
R-540	RECEPT. - BATH/HALLWAY	20/1	7	8	20/1	RECEPT. - KITCHEN COUNTER	R-360
R-720	RECEPT. - BEDROOM	20/1	9	10	20/1	RECEPT. - KITCHEN PENINSULA	R-540
R-720	RECEPT. - BEDROOM	20/1	11	12	20/1	RANGE HOOD	H-100
R-900	RECEPT. - BEDROOM	20/1	13	14	20/1	LIGHTING	L-290
R-540	RECEPT. - BATH/HALLWAY	20/1	15	16	20/1	KITCHEN EXHAUST	H-24
-	SPARE	20/1	17	18	20/1	SPARE	-
-	SPARE	20/1	19	20	20/1	SPARE	-
-	SPARE	20/1	21	22	20/1	SPARE	-
-	SPARE	20/1	23	24	20/1	SPARE	-
-	SPARE	20/1	25	26	20/1	SPARE	-
-	SPARE	20/1	27	28	20/1	SPARE	-
-	SPARE	20/1	29	30	20/1	SPARE	-

REMARKS:
 1. RESIDENTIAL-STYLE LOADCENTER PANEL.
 2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.

LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 P - PLUMBING
 H - HVAC

PLAN NOTES
 A. LIGHT FIXTURES IN CLOSETS SHALL BE LOCATED AT LEAST 12" FROM STORAGE RACKING.

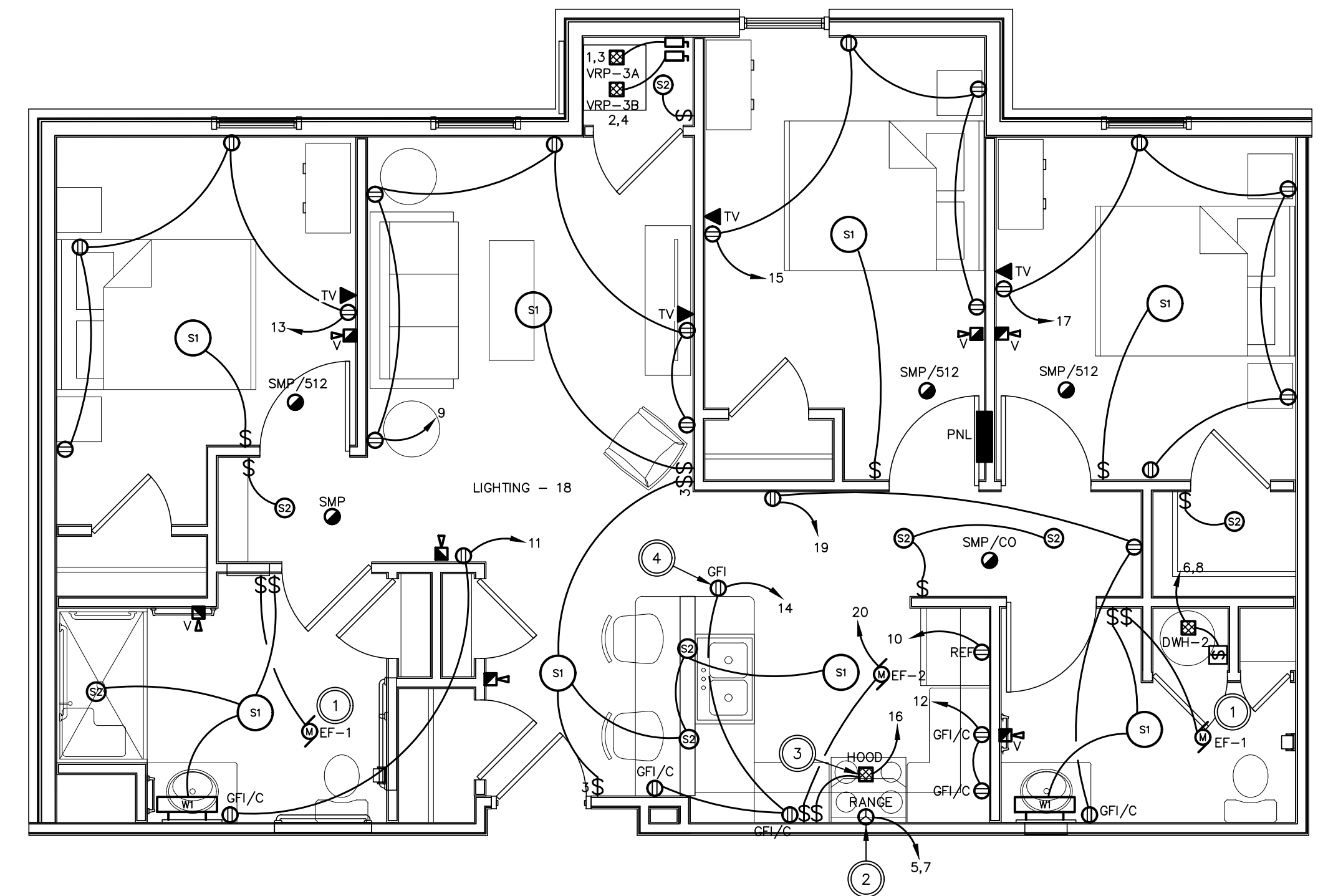
CODED NOTES

- EXHAUST FAN HAS LOW/HIGH SPEED SETTING. FAN WILL RUN CONTINUOUSLY AT LOW SPEED. FAN WILL SWITCH TO HIGH SPEED WHEN THE WALL SWITCH IS TURNED ON. CONNECT TO UNSWITCHED LIGHTING CIRCUIT IN ROOM.
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- RANGE HOOD. PROVIDE ON/OFF SWITCH IN ACCESSIBLE LOCATION ABOVE COUNTERTOP AS SHOWN.
- RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
- PROVIDE RECESSED JUNCTION BOX WITH COVER FOR FUTURE VISUAL FIRE ALARM NOTIFICATION DEVICE PER OBC 907.5.2.3.3. PROVIDE 3/4"C FROM BOX AND STUB INTO ACCESSIBLE CEILING SPACE IN CORRIDOR.
- RANGE HOOD WITH INTEGRAL SWITCH.

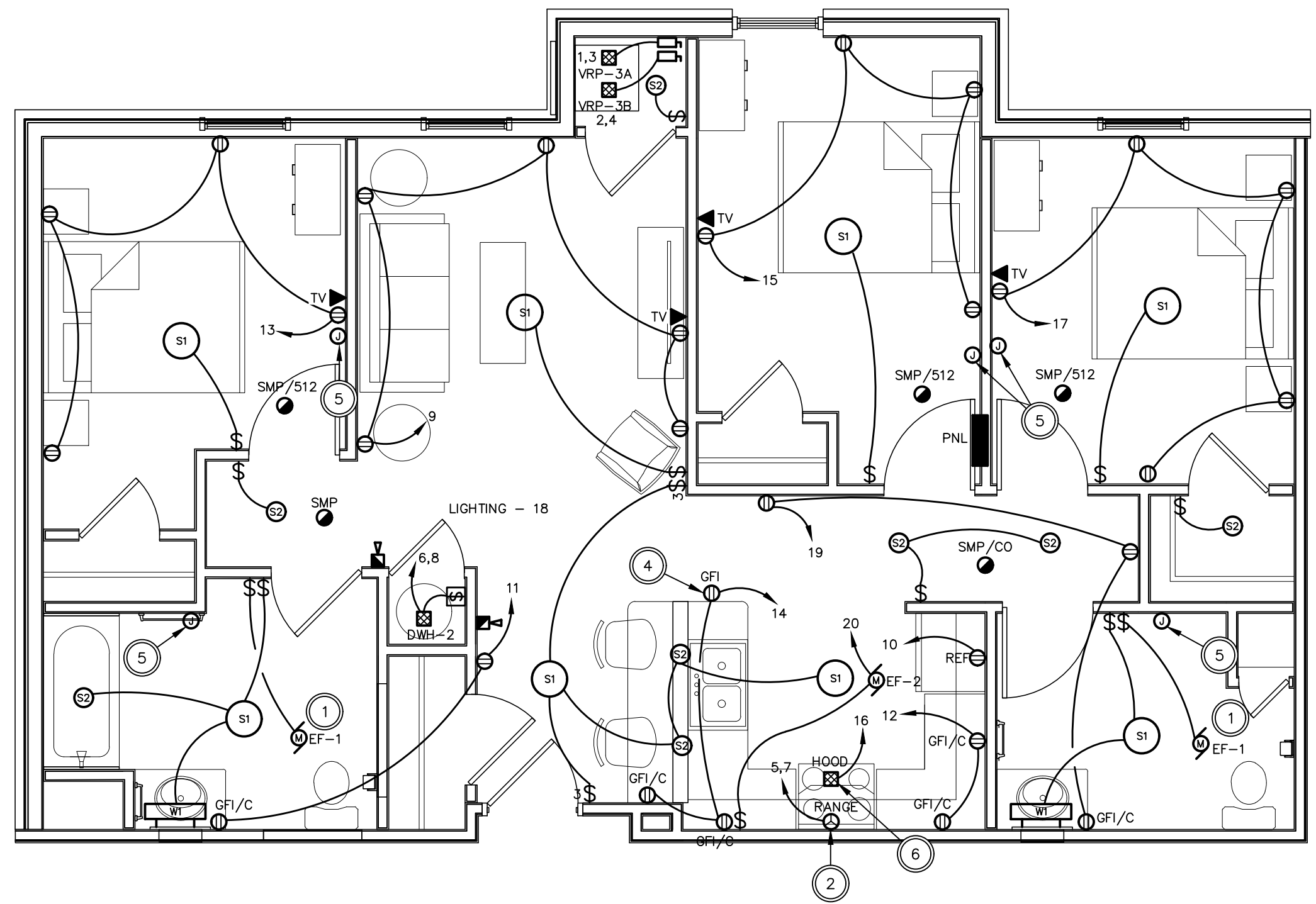
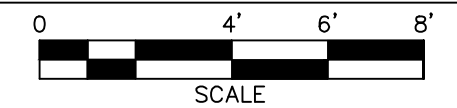
ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

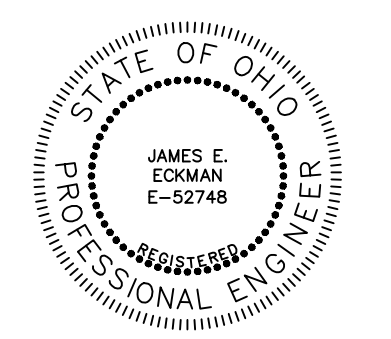
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):
 - MAXIMUM HEIGHT OF ALL DEVICES: 46" TO CENTERLINE.



NEW WORK - TYP. THREE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. THREE BEDROOM - ELECTRICAL



J. Eckman 3/31/23
 SIGNATURE DATE

REVISIONS

TYPICAL THREE BEDROOM - ELEC.
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MULTIFAMILY DWELLING UNIT LOAD CALCULATIONS

BASED ON 2017 NEC 220.84.

ONE-BED UNIT (559 SQUARE FEET)		TWO-BED UNIT (751 SQUARE FEET)		THREE-BED UNIT (981 SQUARE FEET)	
LOAD	VA	LOAD	VA	LOAD	VA
GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	1677	GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	2253	GENERAL USE LIGHTING & RECEPTACLES (3W/SQ FT)	2943
SMALL APPLIANCE (1500W EACH)	3000	SMALL APPLIANCE (1500W EACH)	3000	SMALL APPLIANCE (1500W EACH)	3000
RANGE	8000	RANGE	8000	RANGE	8000
WATER HEATER	4500	WATER HEATER	4500	WATER HEATER	4500
HVAC	6743	HVAC	7862	HVAC	12179
TOTAL	23920	TOTAL	25615	TOTAL	30622
TOTAL AMPS @ 208V, 1PH: 115A		TOTAL AMPS @ 208V, 1PH: 123A		TOTAL AMPS @ 208V, 1PH: 147A	

WEST METER BANK "MB-W"		EAST METER BANK "MB-E"	
NUMBER OF ONE-BED UNITS	6	NUMBER OF ONE-BED UNITS	7
NUMBER OF TWO-BED UNITS	12	NUMBER OF TWO-BED UNITS	14
NUMBER OF THREE-BED UNITS	9	NUMBER OF THREE-BED UNITS	2
TOTAL CONNECTED LOAD	726.5 KVA	TOTAL CONNECTED LOAD	587.3 KVA
DEMAND FACTOR (TABLE 220.84)	34%	DEMAND FACTOR (TABLE 220.84)	36%
TOTAL DEMAND LOAD	247 KVA	TOTAL DEMAND LOAD	211.4 KVA
TOTAL AMPS @ 208V, 3PH	686 A	TOTAL AMPS @ 208V, 3PH	587 A

HOUSE LOAD CALCULATION

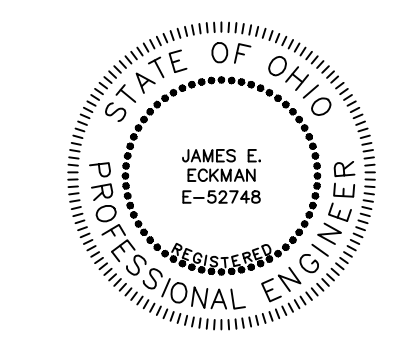
LOAD	CONNECTED VA	DEMAND VA
LIGHTING	7598	7598
RECEPTACLE	24440	17220
HVAC	147353	131353
WATER HEATER	6000	6000
WASHERS	4000	4000
DRYERS	20000	20000
ELEVATOR	43200	43200
MISCELLANEOUS	8120	5000
TOTAL	260711	234371
TOTAL DEMAND AMPS @ 208V, 3PH: 651A		

PLAN NOTES

- A. "LSI" ON BREAKER INDICATES INDEPENDENTLY-ADJUSTABLE TRIP UNIT.
 L - LONG-TIME PICKUP
 S - SHORT-TIME PICKUP
 I - INSTANTANEOUS PICKUP

CODED NOTES

- SERVICE ENTRANCE GROUNDING ELECTRODE CONDUCTOR. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- BOND NEUTRAL AND GROUND AT SERVICE ENTRANCE. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- COORDINATE BREAKER SIZE WITH SPD MANUFACTURER. REVISE FEEDER SIZE TO MATCH BREAKER SIZE RECOMMENDED BY MANUFACTURER.
- EXTERNALLY-MOUNTED SURGE PROTECTION DEVICE LOCATED ON TOP OR SIDE OF DISTRIBUTION PANEL. REFER TO SPECIFICATIONS.
- MINIMIZE CONDUCTOR LENGTH AS MUCH AS POSSIBLE.
- PROVIDE TRANSFORMER PAD PER UTILITY REQUIREMENTS. REFER TO DETAIL AND COORDINATE WITH UTILITY.
- 2000A, 208V, 3PH, 4W TRANSITION CABINET WITH MECHANICAL LUGS, FRONT-ACCESSIBLE WITH REMOVABLE SIDE AND BACK COVERS, 39" WIDE x 24" DEEP x 60" TALL. PROVIDE "SCC" SERIES CABINET BY AMERICAN MIDWEST POWER (OR EQUAL).



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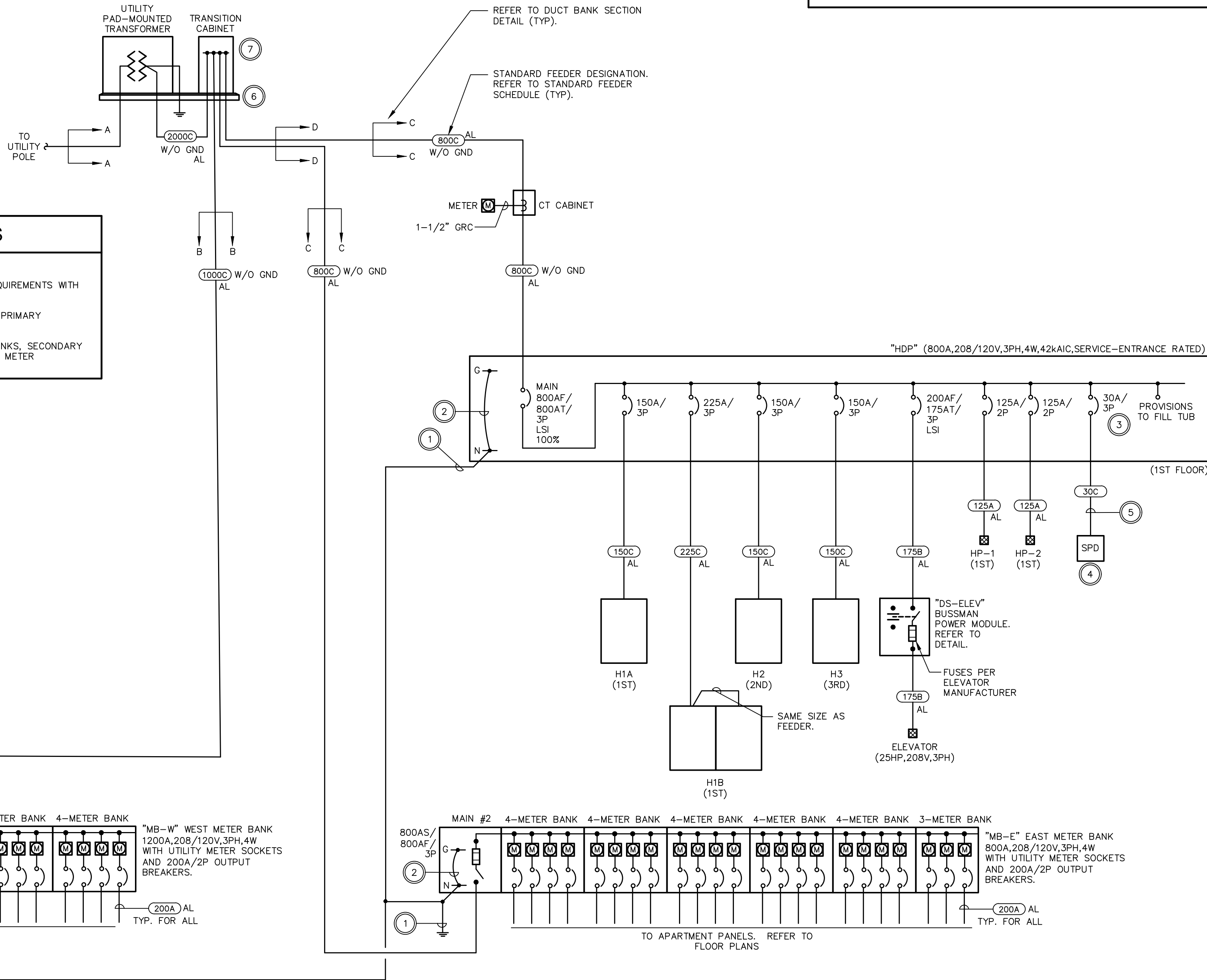
REVISIONS

METERING ASSEMBLY NOTES

- EATON IS THE BASIS-OF-DESIGN FOR THE RESIDENTIAL METER BANK ASSEMBLIES. EQUALS BY SQUARE D, SIEMENS, AND ABB ARE ACCEPTABLE.
- MAIN FUSED SWITCH DISCONNECT: 208/120V, 3PH, 4W, AMPERAGE AND FUSE SIZE AS NOTED, EXTERIOR ENCLOSURE, SERVICE-ENTRANCE RATED, COPPER BUS. EATON #3MFS SERIES WITH #3MFSBBK BARRIER KIT.
- METER ASSEMBLIES: 208/120V, 3PH, 4W, AMPERAGE AS NOTED, EXTERIOR ENCLOSURE, RINGLESS WITH HORN BYPASS, 200A/2P OUTPUT BREAKERS, COPPER BUS. EATON #3MM SERIES.
- PROVIDE PLASTIC ENGRAVED LABEL ON EACH METER SOCKET. LABEL TO READ "APARTMENT ###" AND INDICATE WHICH APARTMENT IS BEING SERVED.
- PROVIDE PLASTIC ENGRAVED LABEL ON THE MAIN DISCONNECT SWITCH PER DETAIL.
- THE TOP METER MUST BE NOT ANY HIGHER THAN 72" FROM THE TOP OF THE METER FROM FINAL GRADE.
- THE BOTTOM METER MUST NOT BE ANY LOWER THAN 24" TO THE TOP OF THE METER FROM FINAL GRADE.
- BALANCE THE METER STACKS IN THE FIELD BETWEEN ALL THREE PHASES AS EVENLY AS POSSIBLE.

ELECTRIC UTILITY NOTES

- THE ELECTRIC UTILITY IS AES OHIO.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL FINAL REQUIREMENTS WITH THE UTILITY.
- THE UTILITY SHALL PROVIDE THE PAD-MOUNTED TRANSFORMER, PRIMARY CONDUCTORS, METERS, AND CURRENT TRANSFORMERS.
- CONTRACTOR SHALL PROVIDE PRIMARY AND SECONDARY DUCTBANKS, SECONDARY CONDUCTORS, TRANSFORMER PAD, CT CABINET, METER SOCKET, AND METER ASSEMBLIES.



POWER RISER DIAGRAM

N.T.S.

POWER RISER DIAGRAMS - ELEC.
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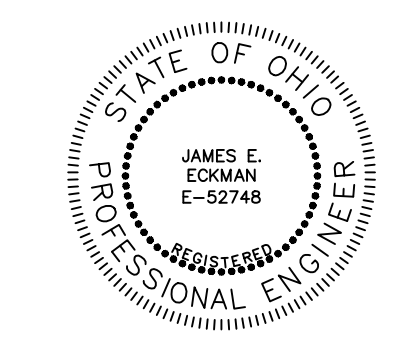
DATE

82A21

PROJECT NUMBER

E501

DRAWING NUMBER



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REVISIONS table with columns for revision number and description.

SCHEDULES - ELECTRICAL
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PROJECT NUMBER

E602
DRAWING NUMBER

PANELBOARD SCHEDULE for H2 (SECTION 1), 2ND FLOOR. Includes load table with columns for load, description, and breaker info. Includes load legend and remarks.

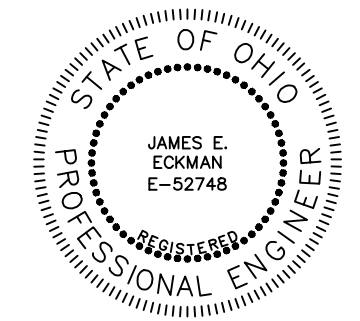
PANELBOARD SCHEDULE for H1B (SECTION 2), 1ST FLOOR. Includes load table with columns for load, description, and breaker info. Includes load legend and remarks.

PANELBOARD SCHEDULE for H1B (SECTION 1), 1ST FLOOR. Includes load table with columns for load, description, and breaker info. Includes load legend and remarks.

STANDARD FEEDER SCHEDULE table with columns for feeder no., wire size, conductor size (AL, CU), and conduit size (A, B, C).

PANELBOARD SCHEDULE for H3, 3RD FLOOR. Includes load table with columns for load, description, and breaker info. Includes load legend and remarks.

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J. E. Eckman
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REVISIONS

DETAILS - ELECTRICAL
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DAYTON OHIO

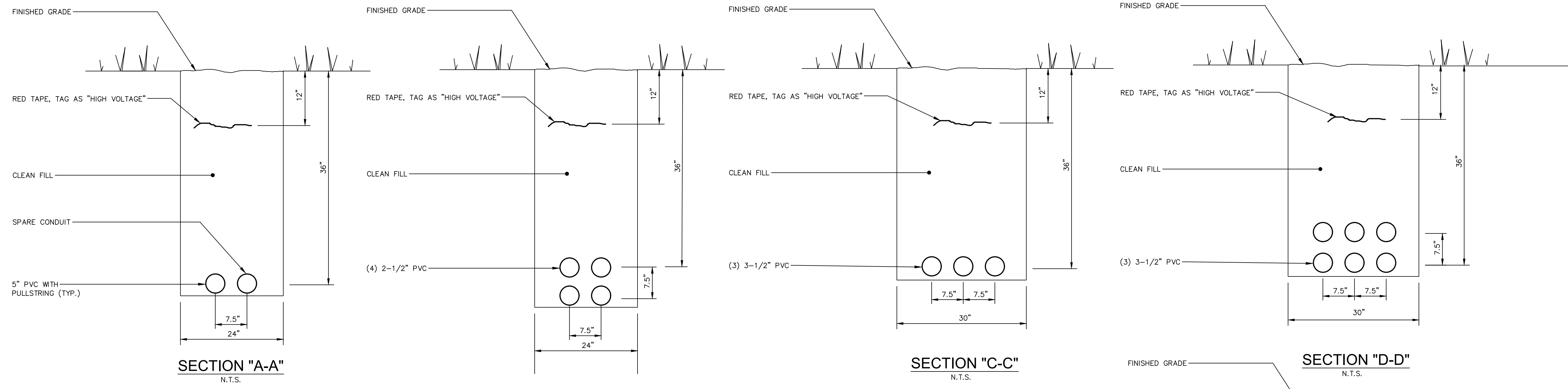


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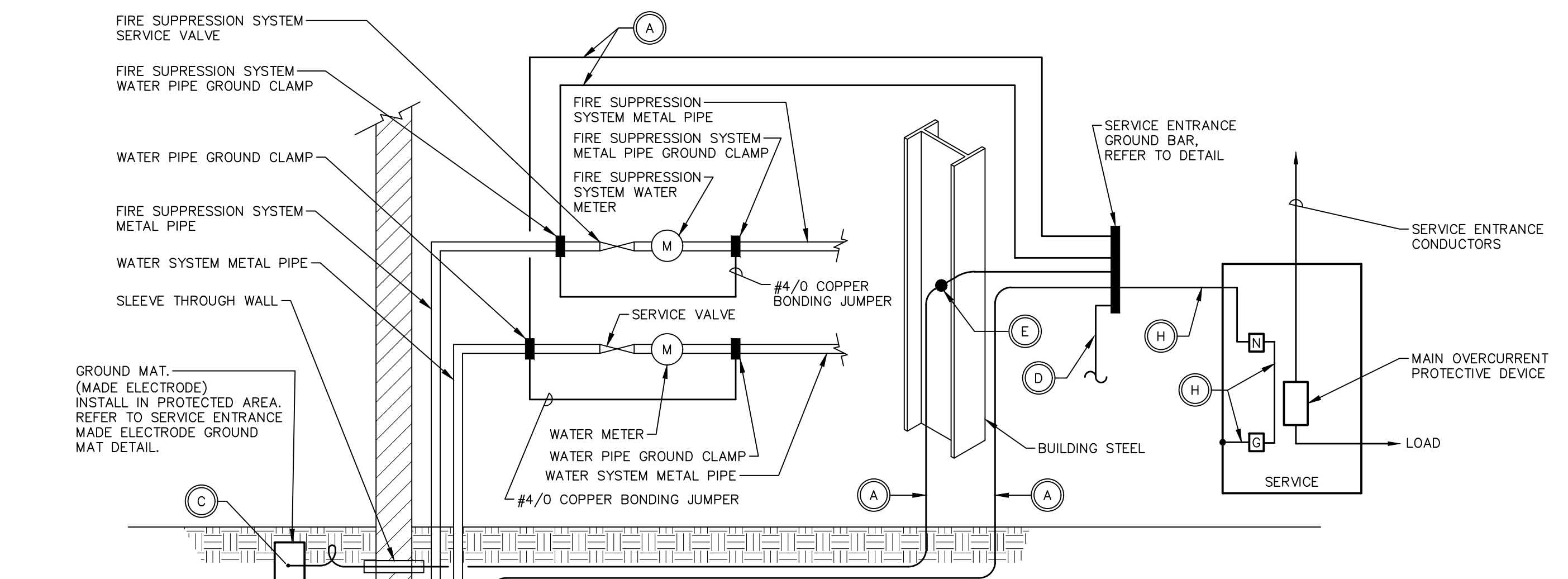
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 82A21
 PROJECT NUMBER

E701
 DRAWING NUMBER



GENERAL DUCTBANK NOTES

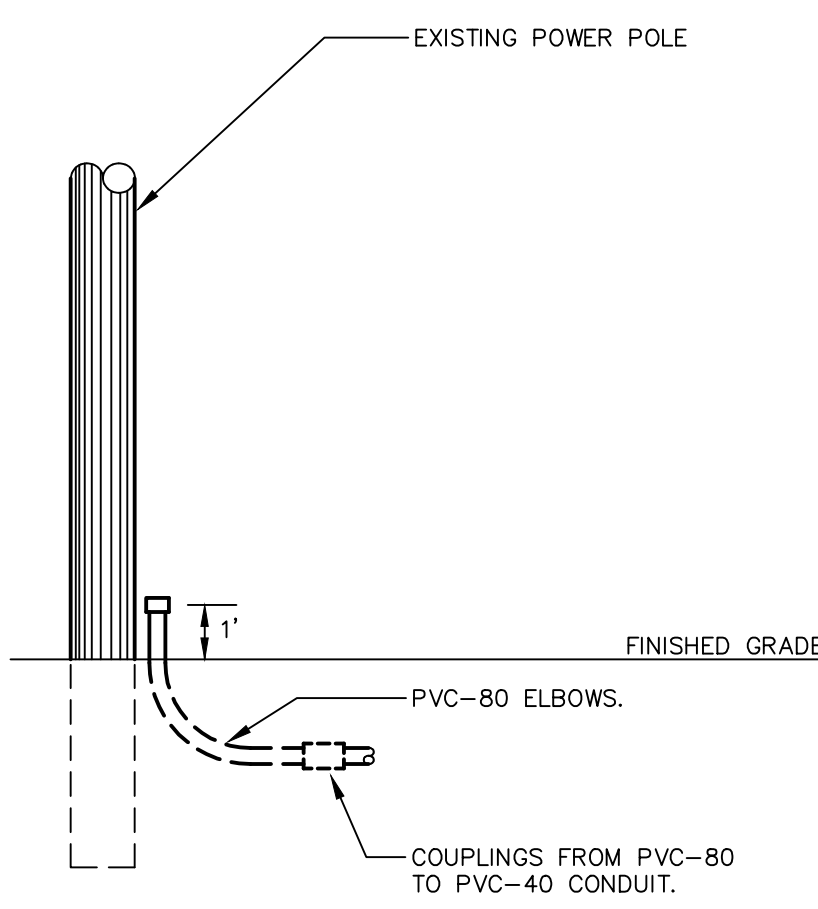
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON DUCT BANK CONSTRUCTION.
- NONMETALLIC SPACERS OF REQUIRED SIZE SHALL BE PROVIDED TO SUPPORT PVC CONDUITS. SPACERS SHALL BE PROVIDED AT 8\"/>



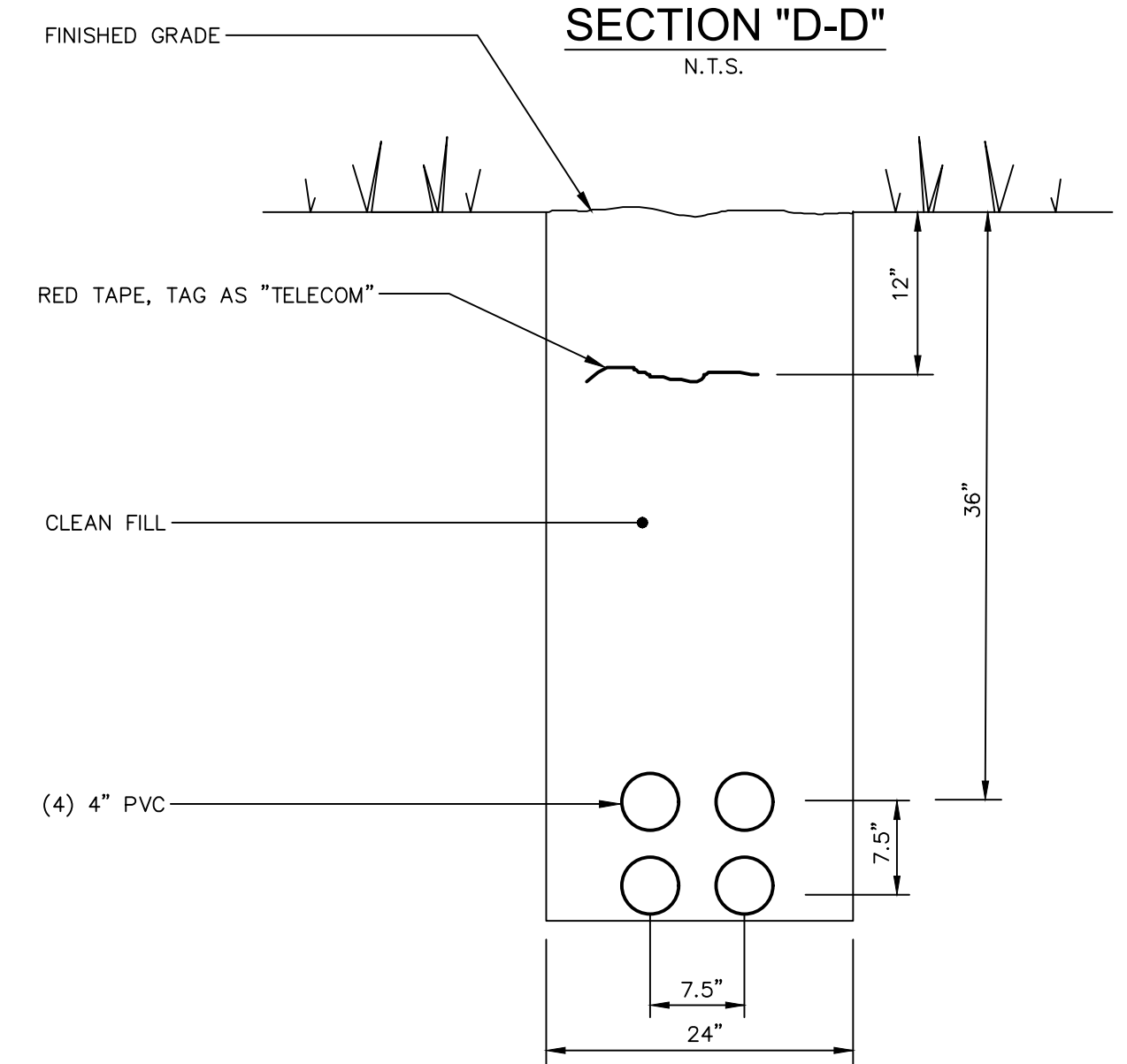
CODED NOTES

- #4/0 COPPER GROUNDING ELECTRODE CONDUCTOR.
- UNDERGROUND WATER PIPE SHALL BE SUPPLEMENTED BY THIS ADDITIONAL MADE ELECTRODE.
- EXOTHERMIC WELDING CONNECTION BETWEEN GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTOR.
- #6 COPPER WIRE TO MAIN TELECOMMUNICATIONS BACKBOARD COPPER BUS GROUND BAR. REFER TO DRAWINGS FOR LOCATION.
- EXOTHERMIC WELDING CONNECTION BETWEEN BUILDING STEEL AND GROUNDING ELECTRODE CONNECTION.
- FOUNDATION REBAR NEAR BASE OF FOOTER WHERE AVAILABLE. WHERE NOT AVAILABLE, FURNISH AND INSTALL 20 FT. MIN. OF #4/0 BARE COPPER CABLE NEAR BOTTOM OF FOOTER WITH AT LEAST 2\"/>
- EXOTHERMIC WELDED CONNECTION TO FOOTER REBAR NEAR BASE OF FOOTER.
- MAIN BONDING JUMPER. SIZE PER NEC 250.28(D).

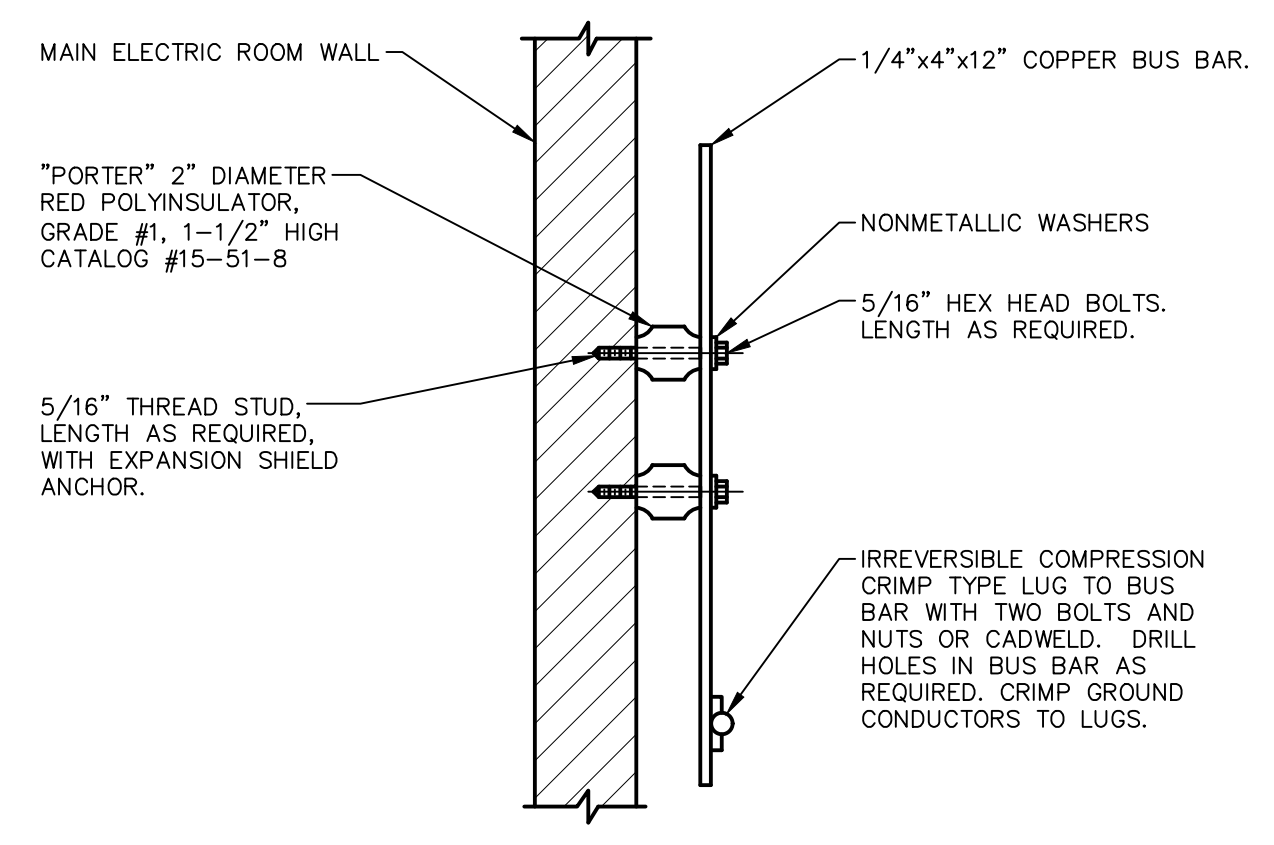
SERVICE ENTRANCE ELECTRODE SYSTEM DETAIL
 N.T.S.



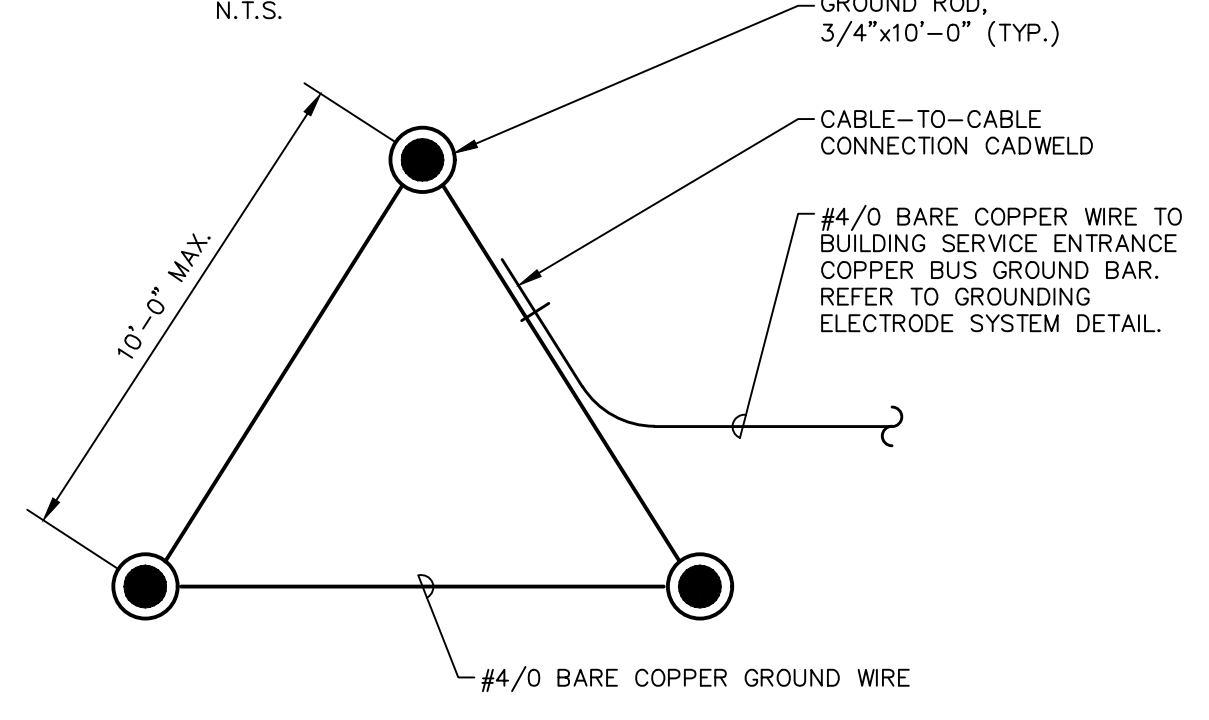
POWER POLE DETAIL
 N.T.S.



SECTION 'E-E'
 N.T.S.



SERVICE ENTRANCE GROUND BAR DETAIL
 N.T.S.

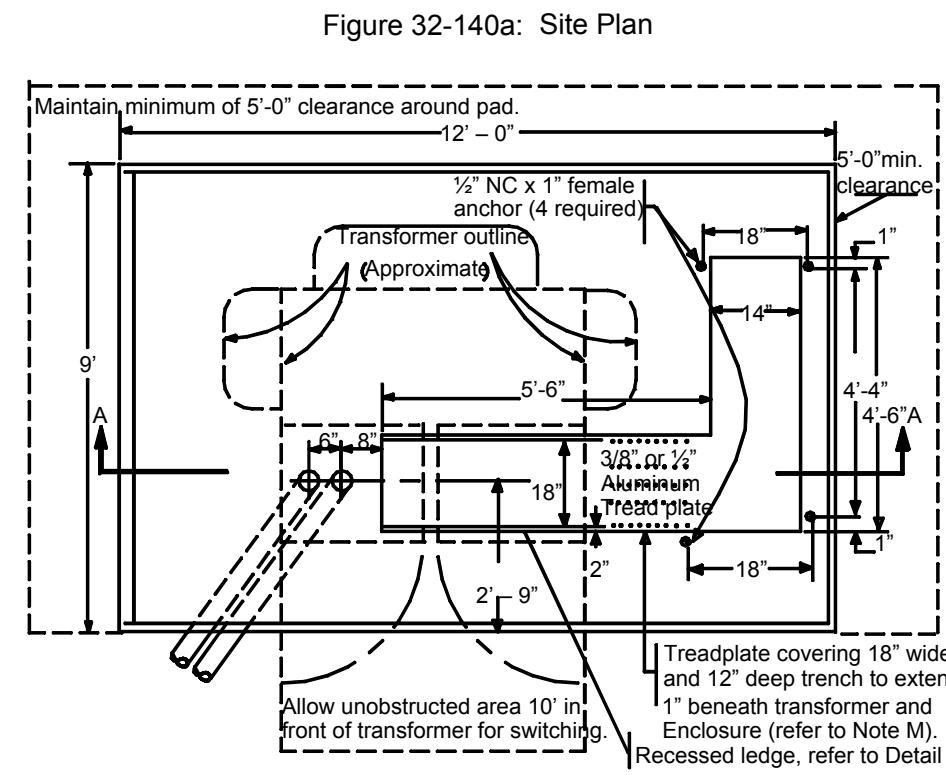


NOTE:
 BURY TOP OF GROUND ROD AT 6\"/>

SERVICE ENTRANCE MADE ELECTRODE GROUND MAT DETAIL
 N.T.S.

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Transformer Pad for URD Three Phase Services With 20' x 5' x 5' Transition Cabinet



- Notes:**
- A. Pad location must be verified and approved by DP&L Engineering Services. A gravel pit may be required below the pad. Refer to Standard 22-190.
 - B. A 5' minimum space must be maintained on each side and rear of pad.

Figure 32-140b: Section "A - A"

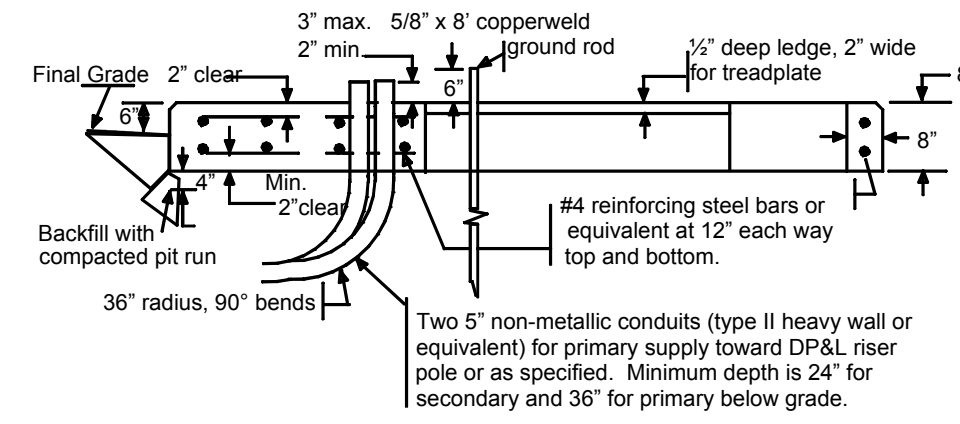
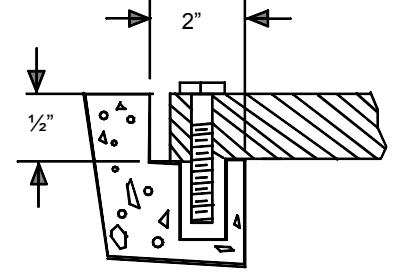


Figure 32-140c: Detail "A"



- Notes:**
- C. Protection posts must be furnished and installed by customer. Location to be specified by DP&L Engineering.
 - D. Contact the Meter Department for meter location and metering conduit requirements before building the transformer pad.
 - E. The customer is to furnish and install 1-4" type II conduit under all concrete pavement areas where required for DP&L primary supply.
 - F. Transformer must be accessible from the front of the pad. Area above and 10' in front of the installation must be free of any permanent obstructions.
 - G. Protection posts (railroad rail set in concrete or 4" steel posts filled with and set in concrete) must be provided, 3 foot minimum height. Locations shall be specified by DP&L Engineering Services to ensure access to the transformer. Any exceptions to this rule must be approved by DP&L Engineering in writing.

- H. The pad must be located so as to be accessible for transformer transporting and lifting equipment (mobile crane and low boy trailer).
- I. Concrete used for the construction shall have 28 day strength of 3500 PSI.
- J. All work shall conform to specifications and standard practices of the American Concrete Institute.
- K. DP&L will furnish lugs, bolts, and miscellaneous material, as well as labor and make the primary and secondary connections at the terminals of the transformer(s) after the secondary conductors have been installed and connected to the customer's switch gear (by others).
- L. Where the transformer serves commercial customers, the customer shall provide and install all secondary facilities beyond the transformer secondary terminals. DP&L will furnish lugs and labor to connect to the transformer terminals. Wiring between the transformer terminals and the transition cabinet may be specified by DP&L. Refer to Standard 34-160 as a guideline for sizing of cables connected to secondaries of pad mount transformers.
- M. The treadplate covering will be furnished and installed by the customer before any secondary cables are energized from the pad mount transformer.

TRANSFORMER PAD WITH TRANSITION CABINET DETAIL

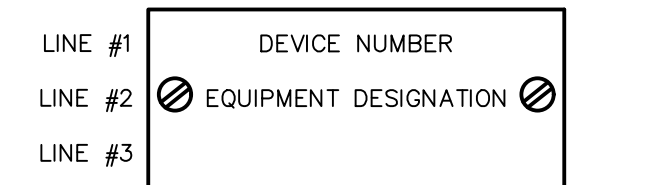
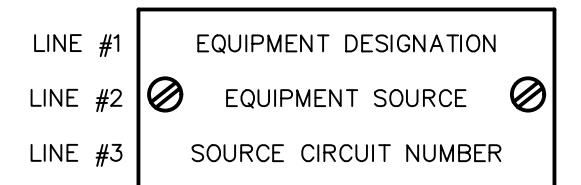
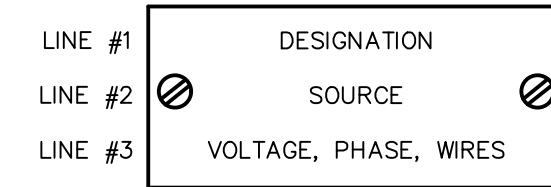
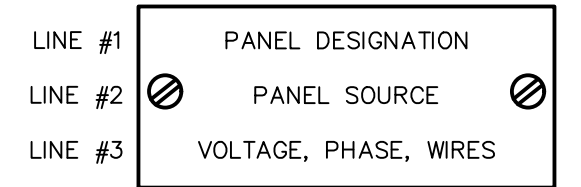
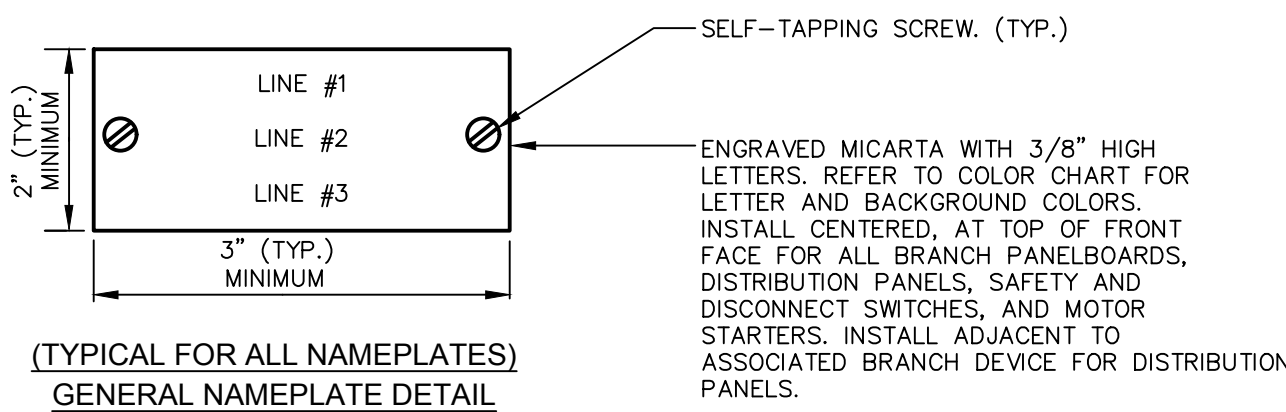
N.T.S.

STANDARD COLORS:

ELECTRICAL EQUIPMENT SUCH AS:
 1. PANELBOARDS, MOTOR STARTERS, DISTRIBUTION PANELS, DISCONNECT SWITCHES (IF APPLICABLE)

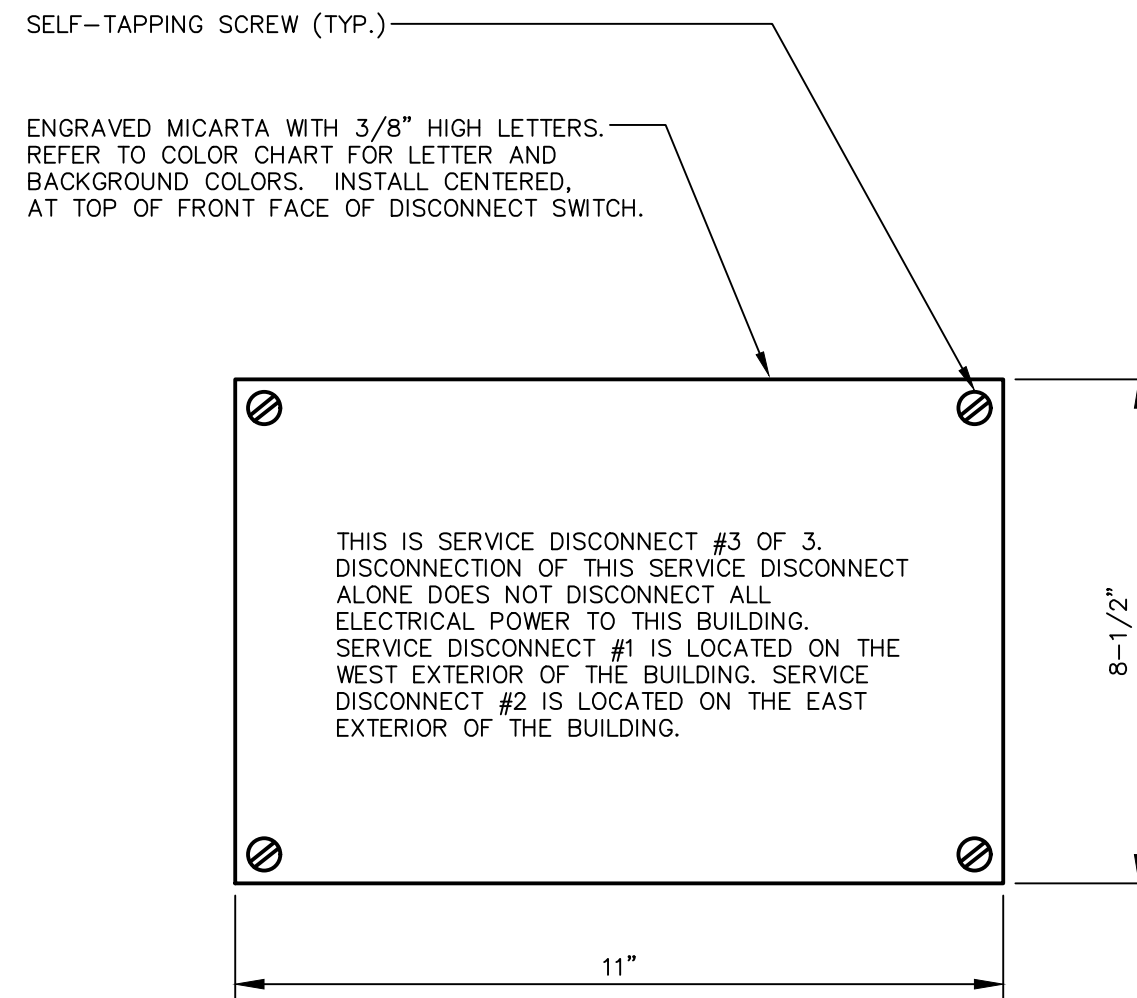
A. 208Y/120 VOLTS - BLACK BACKGROUND, WHITE LETTERS

NAMEPLATE COLOR CODING AND VERBIAGE SHALL BE REVIEWED IN DETAIL WITH THE OWNER PRIOR TO FABRICATION.



(REFER TO SPECIFICATIONS)
IDENTIFICATION TAGGING DETAILS

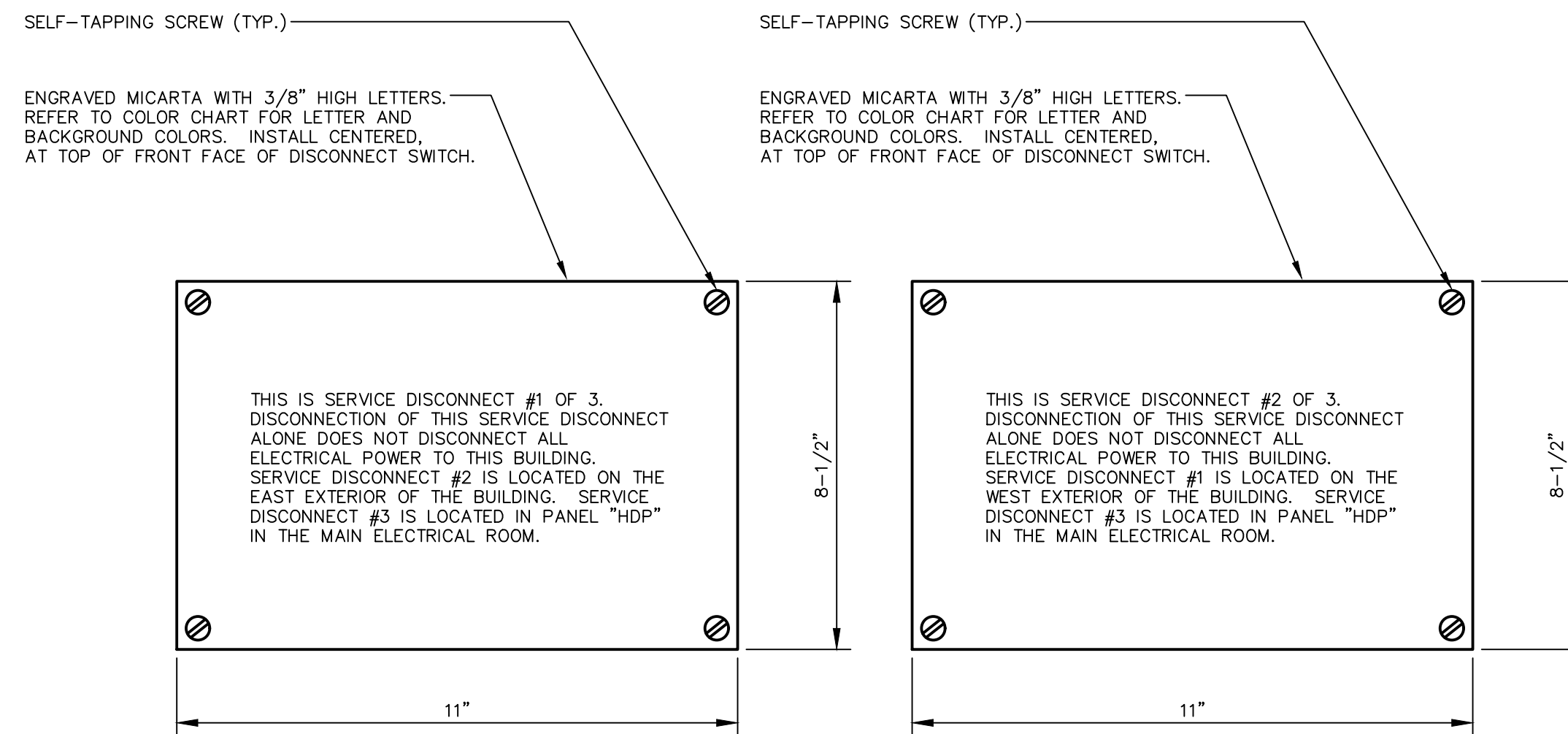
N.T.S.



SERVICE ENTRANCE NAMEPLATE

(REFER TO SPECIFICATIONS)
HDP NAMEPLATE DETAIL

N.T.S.



SERVICE ENTRANCE NAMEPLATE

(REFER TO SPECIFICATIONS)
MAIN #1 NAMEPLATE DETAIL

N.T.S.

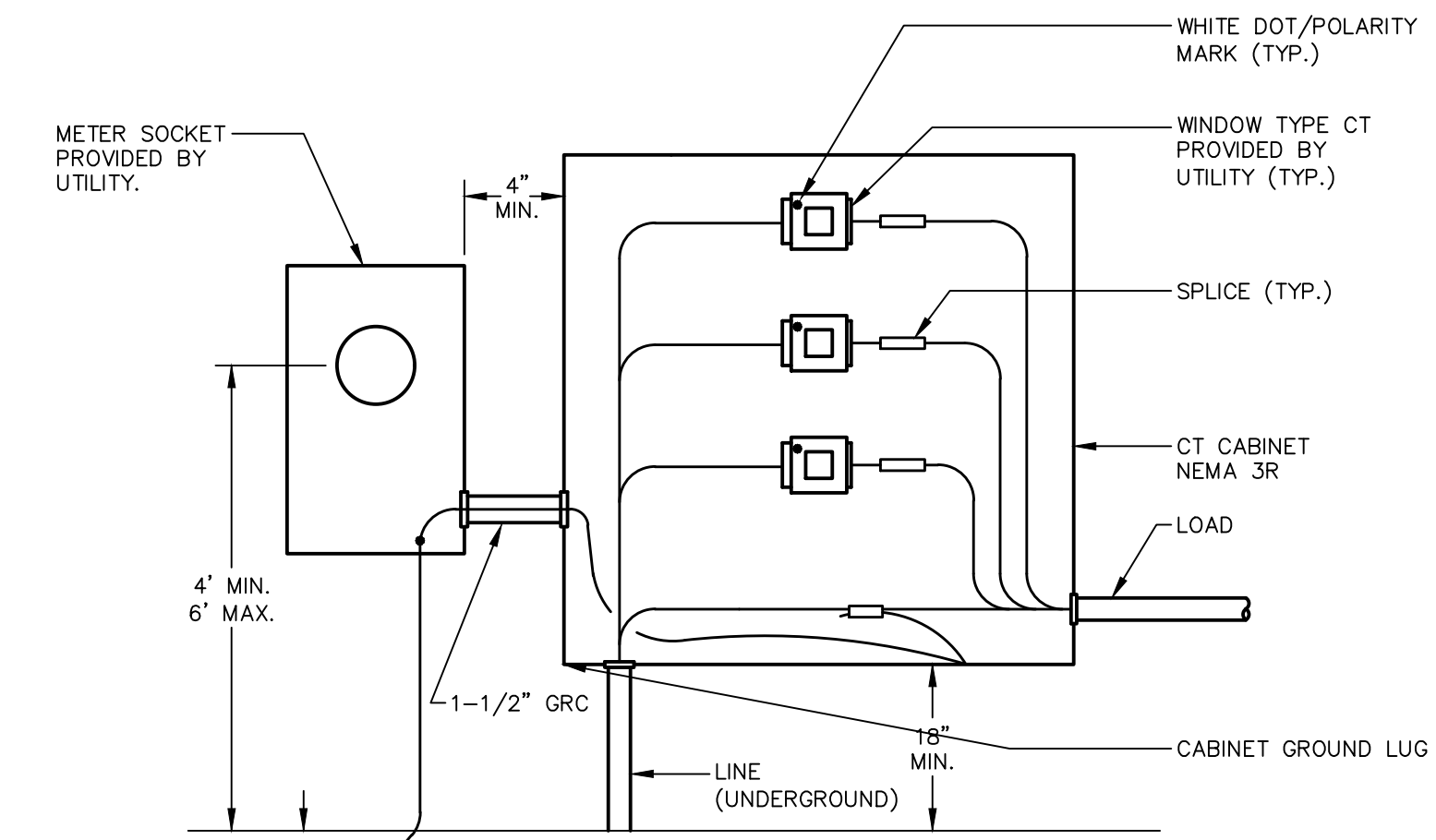
SERVICE ENTRANCE NAMEPLATE

(REFER TO SPECIFICATIONS)
MAIN #2 NAMEPLATE DETAIL

N.T.S.

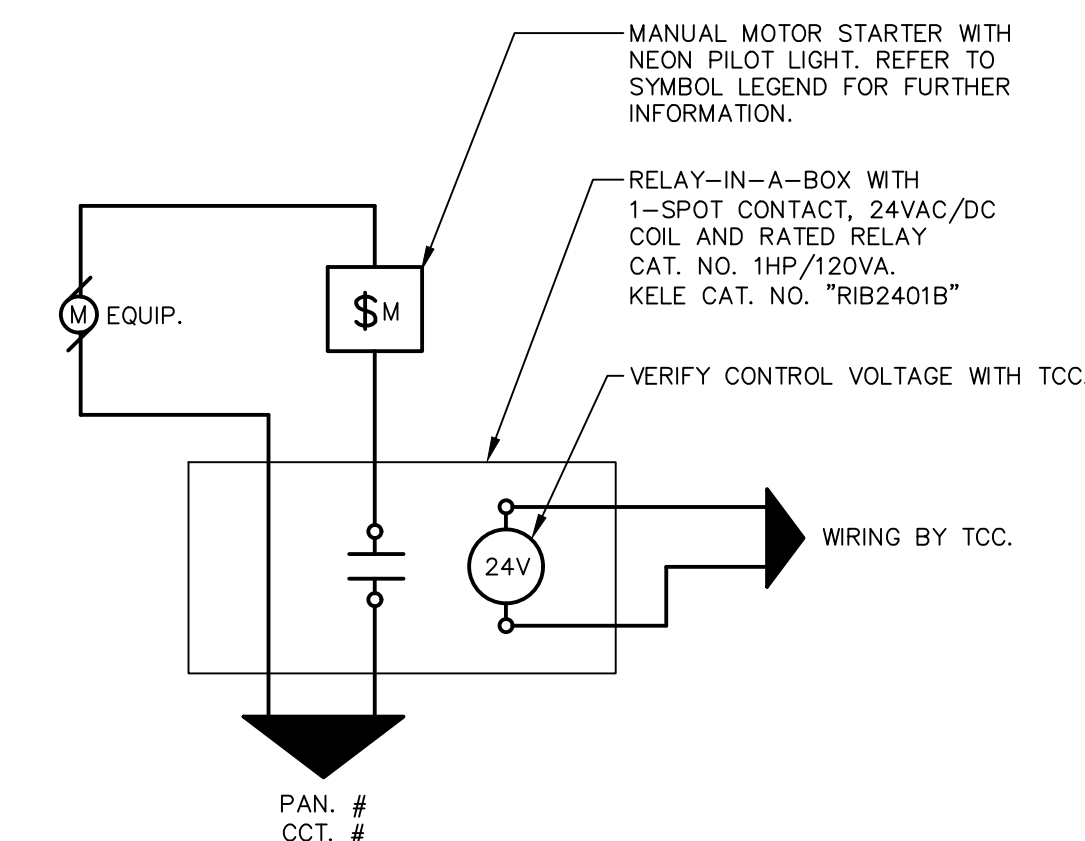
NOTES

1. CT CABINET FURNISHED AND INSTALLED BY EC SHALL BE OF SUBSTANTIAL STRENGTH WITH CORROSION PROTECTION, SUCH AS PAINTED GALVANIZED STEEL NEMA 3R, ALUMINUM OR FIBER REINFORCED POLYESTER ENCLOSURES MUST BE USED IN CORROSIVE AREAS. IT SHALL HAVE PROVISIONS FOR INSTALLING A UTILITY PADLOCK AND SEAL. THE INSIDE BACK OF THE CABINET SHALL BE ENTIRELY COVERED BY 3/4" TREATED PLYWOOD FOR MOUNTING THE CURRENT TRANSFORMERS OR SUITABLE MOUNTING BRACKETS MAY BE PROVIDED. A GROUNDING LUG SHALL BE PROVIDED TO GROUND THE CABINET.
2. THE WHITE DOT POLARITY MARK ON THE CT SHALL BE TOWARD THE ENERGY SOURCE OR LINE SIDE.
3. EC SHALL MOUNT THE METER SOCKET OR CABINET NEXT TO THE CT CABINET AND INSTALL 1-1/2" GRC CONDUIT BETWEEN THE TWO. IF THE METER SOCKET CANNOT BE INSTALLED NEXT TO THE CT CABINET, IT MAY BE LOCATED UP TO 20 FEET AWAY WITH METER SERVICES APPROVAL. 1-1/2" CONDUIT SHALL CONNECT THE SOCKET AND CT CABINET.
4. THE CT CABINET AND METER SOCKET SHALL BE GROUND. BONDING TO THE SYSTEM NEUTRAL IS REQUIRED IF THE SYSTEM NEUTRAL IS GROUND. GROUND WIRE SHALL REMAIN CONTINUOUS AND UNBROKEN BETWEEN GROUND ROD AND CT CABINET.
5. UTILITY WILL INSTALL THE SECONDARY WIRING BETWEEN THE CT AND THE METER SOCKET.
6. THE CONDUCTOR SPLICE SHALL BE MADE WITH BOLTED CONNECTIONS FURNISHED AND INSTALLED BY CUSTOMER WHERE REQUIRED. WHERE THE CUSTOMER OWNS AND INSTALLS BOTH THE LINE AND LOAD CONDUCTORS, THE CONDUCTOR MAY PASS THROUGH THE CT'S WITHOUT SPLICE.



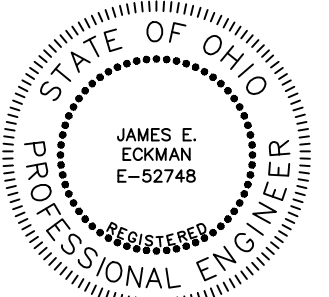
(WINDOW TYPE CT'S)
CURRENT TRANSFORMER CABINET

N.T.S.



RELAY-IN-A-BOX DETAIL

N.T.S.



Signature: *J. Eckman* Date: 3/31/23

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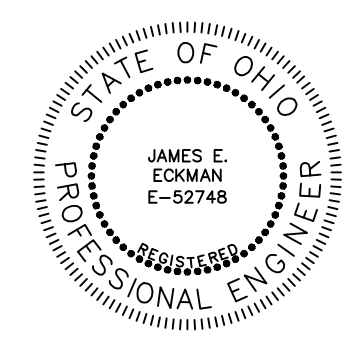


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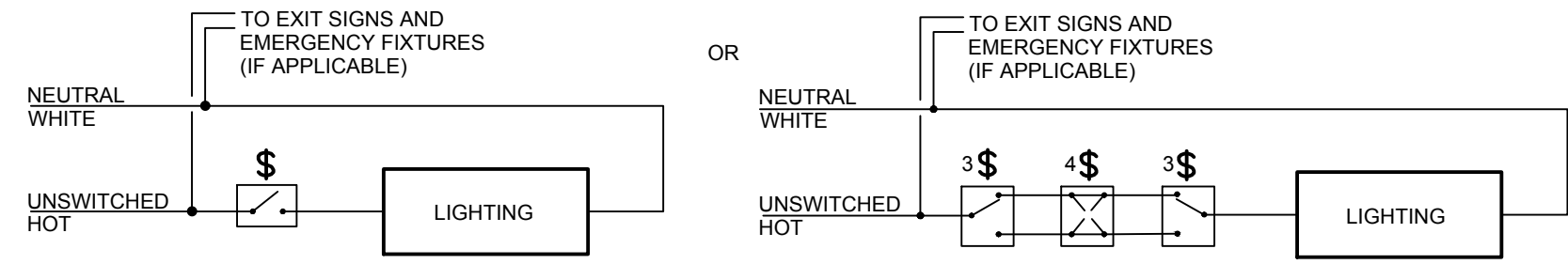
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 PROJECT NUMBER

E702
 DRAWING NUMBER



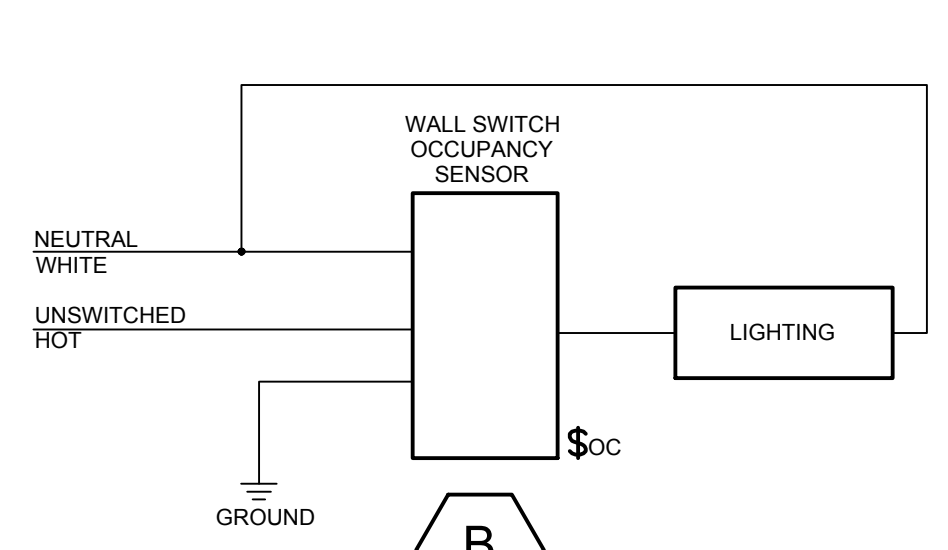
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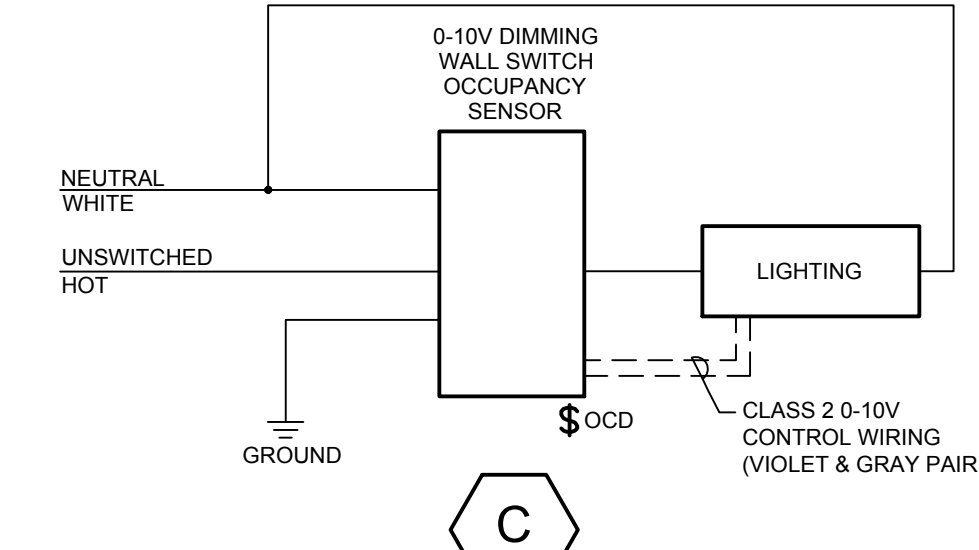
NOTES
1. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF SWITCHES REQUIRED.

TYPICAL LINE-VOLTAGE SWITCHING
N.T.S.



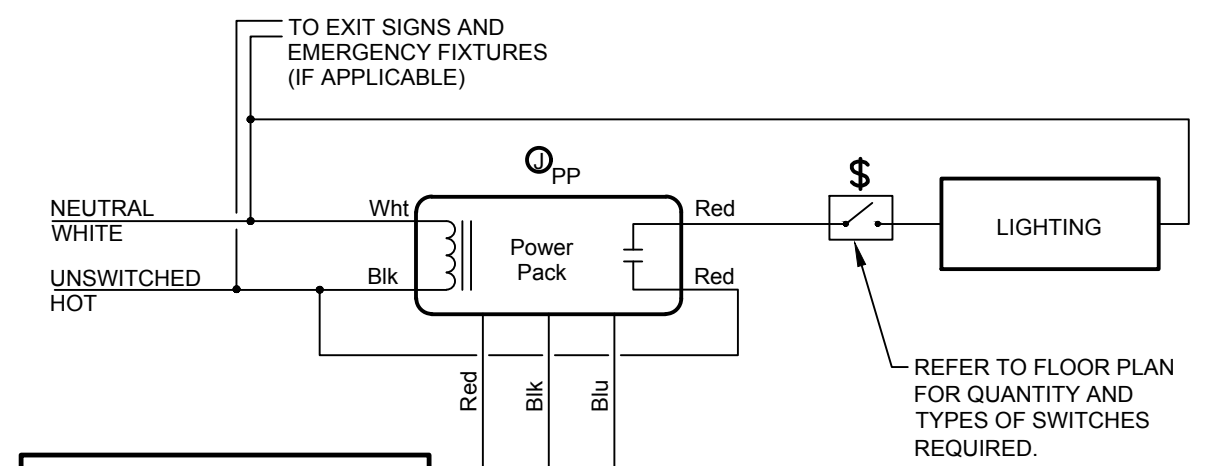
B

TYPICAL SWITCH OCCUPANCY SENSOR
N.T.S.



C

TYPICAL DIMMING SWITCH OCCUPANCY SENSOR
N.T.S.



NOTES
1. WHERE QUANTITY OF OCCUPANCY SENSORS REQUIRED EXCEEDS THE MAXIMUM RATING OF THE POWERPACK, PROVIDE AN AUXILIARY POWER SUPPLY.

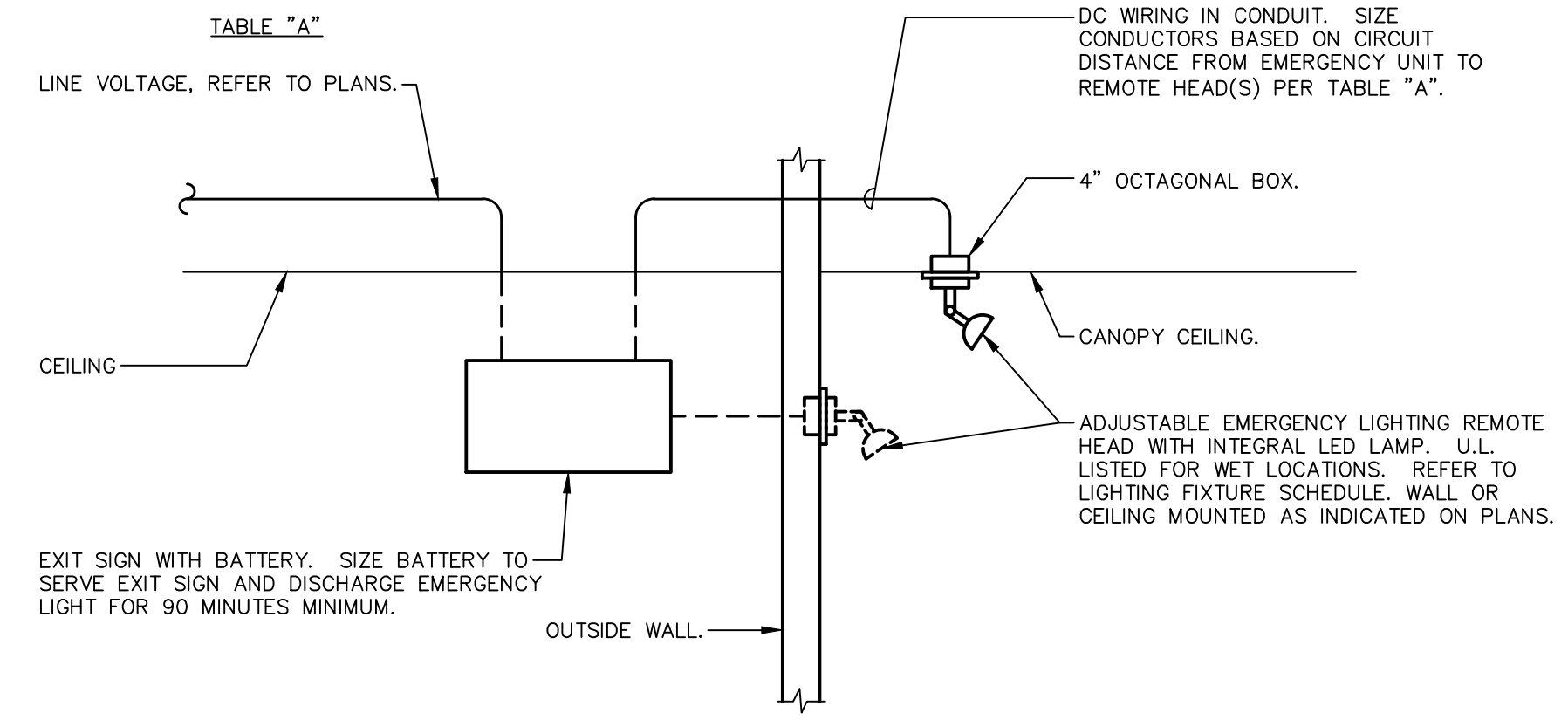
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TYPICAL LOW-VOLTAGE OCCUPANCY SENSOR WITH LINE-VOLTAGE SWITCHING
N.T.S.

WIRE SIZE	MAX. CIRCUIT LENGTH (FT)		
	1	2	3
#12	59	29	19
#10	94	47	31
#8	150	84	50

TABLE "A"

LINE VOLTAGE, REFER TO PLANS.



EXIT SIGN WITH BATTERY. SIZE BATTERY TO SERVE EXIT SIGN AND DISCHARGE EMERGENCY LIGHT FOR 90 MINUTES MINIMUM.

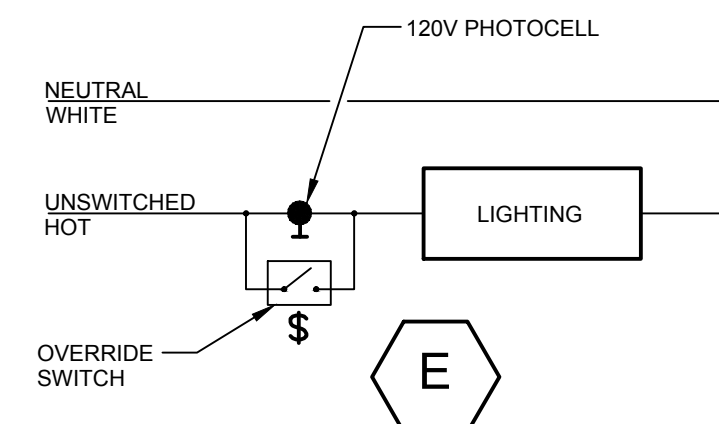
DC WIRING IN CONDUIT. SIZE CONDUCTORS BASED ON CIRCUIT DISTANCE FROM EMERGENCY UNIT TO REMOTE HEAD(S) PER TABLE "A".

ADJUSTABLE EMERGENCY LIGHTING REMOTE HEAD WITH INTEGRAL LED LAMP. U.L. LISTED FOR WET LOCATIONS. REFER TO LIGHTING FIXTURE SCHEDULE. WALL OR CEILING MOUNTED AS INDICATED ON PLANS.

EXIT SIGN AND EXIT DISCHARGE EMERGENCY LIGHTING COMBO DETAIL
N.T.S.

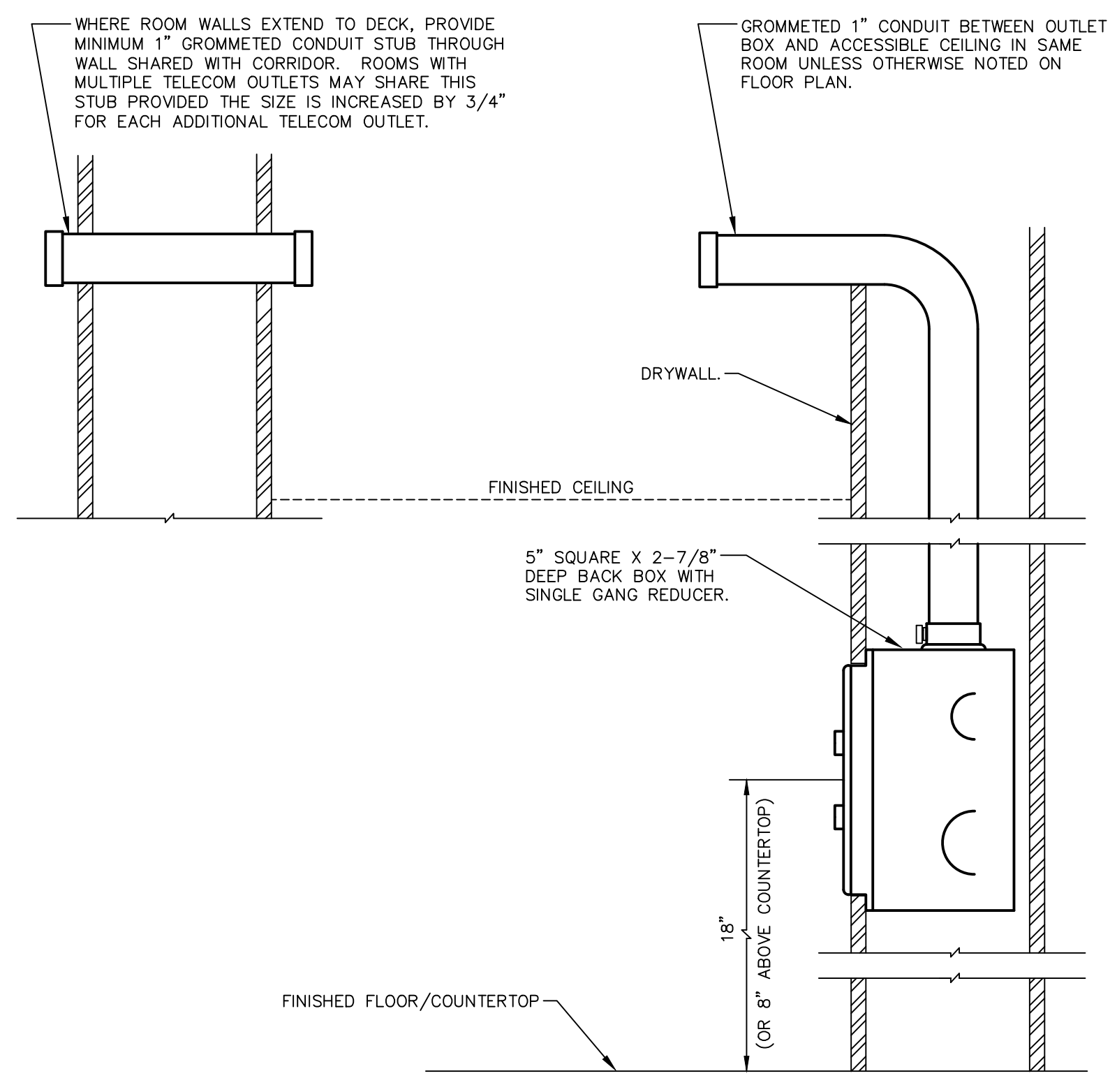
OCCUPANCY SENSOR CONFIGURATION			
ROOM DESCRIPTION	AUTOMATIC ON	MANUAL ON	MANUAL ON/AUTOMATIC TO 50%
PRIVATE OFFICE			X
RESTROOM	X		
STORAGE	X		
CONFERENCE/MEETING		X	

NOTES:
1. SENSOR MUST SHUT OFF LIGHTS WITHIN 30 MINUTES OF UNOCCUPIED USE



E

TYPICAL PHOTOCELL CONTROL
N.T.S.



WHERE ROOM WALLS EXTEND TO DECK, PROVIDE MINIMUM 1" GROMMETED CONDUIT STUB THROUGH WALL SHARED WITH CORRIDOR. ROOMS WITH MULTIPLE TELECOM OUTLETS MAY SHARE THIS STUB PROVIDED THE SIZE IS INCREASED BY 3/4" FOR EACH ADDITIONAL TELECOM OUTLET.

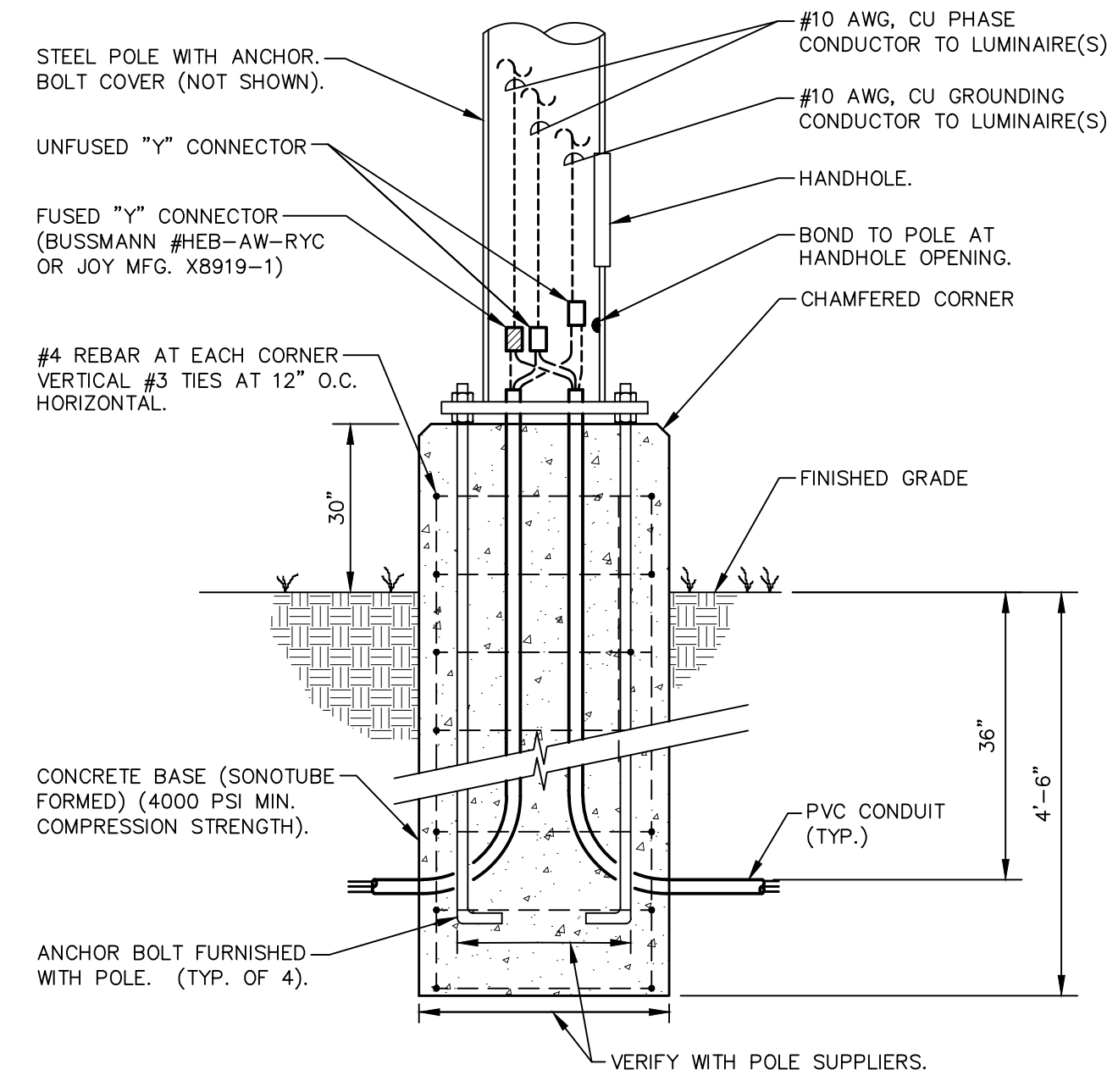
GROMMETED 1" CONDUIT BETWEEN OUTLET BOX AND ACCESSIBLE CEILING IN SAME ROOM UNLESS OTHERWISE NOTED ON FLOOR PLAN.

FINISHED CEILING

5" SQUARE X 2-7/8" DEEP BACK BOX WITH SINGLE GANG REDUCER.

FINISHED FLOOR/COUNTERTOP

TYPICAL FLUSH TELECOM OUTLET ROUGH-IN
N.T.S.

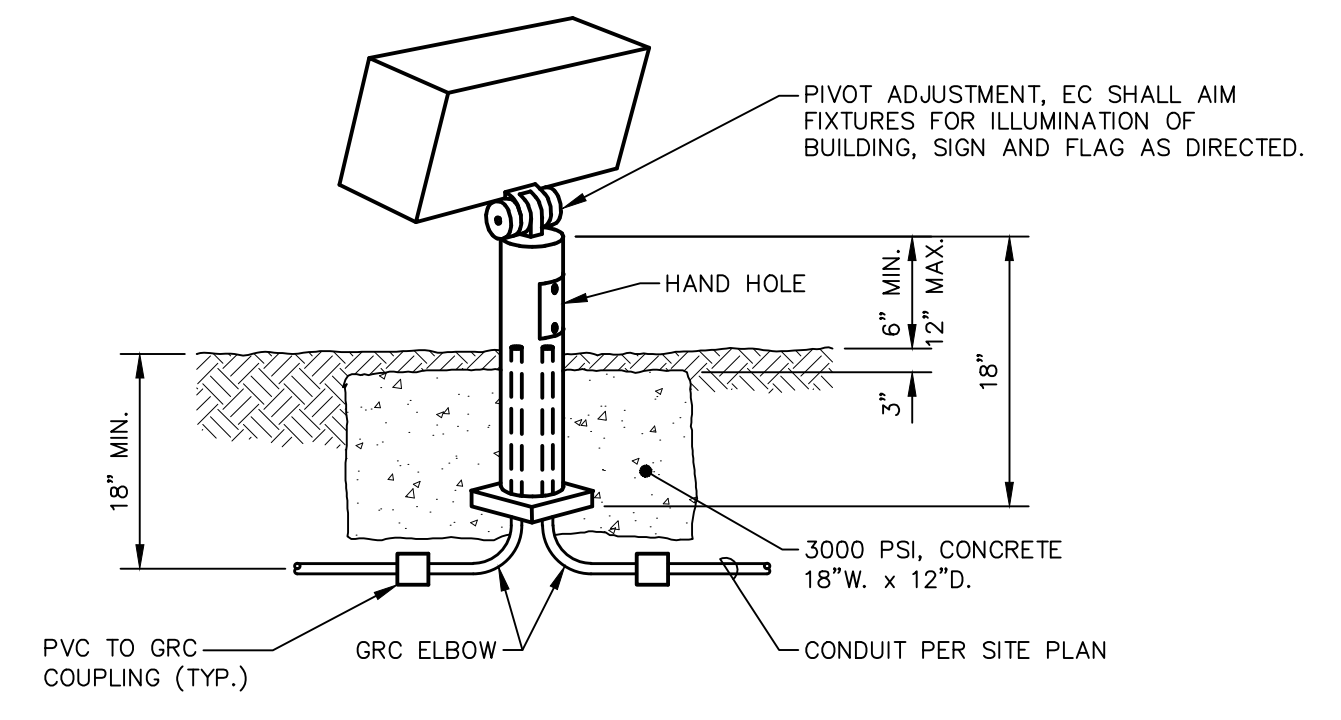


STEEL POLE WITH ANCHOR BOLT COVER (NOT SHOWN).
UNFUSED "Y" CONNECTOR
FUSED "Y" CONNECTOR (BUSSMANN #HEB-AW-RYC OR JOY MFG. X8919-1)
#4 REBAR AT EACH CORNER VERTICAL #3 TIES AT 12" O.C. HORIZONTAL.
#10 AWG, CU PHASE CONDUCTOR TO LUMINAIRE(S).
#10 AWG, CU GROUNDING CONDUCTOR TO LUMINAIRE(S).
HANDHOLE.
BOND TO POLE AT HANDHOLE OPENING.
CHAMFERED CORNER

CONCRETE BASE (SONOTUBE FORMED) (4000 PSI MIN. COMPRESSION STRENGTH).

ANCHOR BOLT FURNISHED WITH POLE. (TYP. OF 4).

POLE BASE DETAIL
N.T.S.



PIVOT ADJUSTMENT. EC SHALL AIM FIXTURES FOR ILLUMINATION OF BUILDING, SIGN AND FLAG AS DIRECTED.

HAND HOLE
6" MIN. 12" MAX.
18" MIN.
3000 PSI CONCRETE 18"W. x 12"D.
CONDUIT PER SITE PLAN
PVC TO GRC COUPLING (TYP.)
GRC ELBOW

BASE DETAIL FOR FLOOR LIGHTING FIXTURE
N.T.S.

DETAILS - ELECTRICAL

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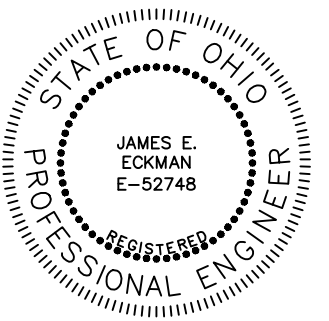
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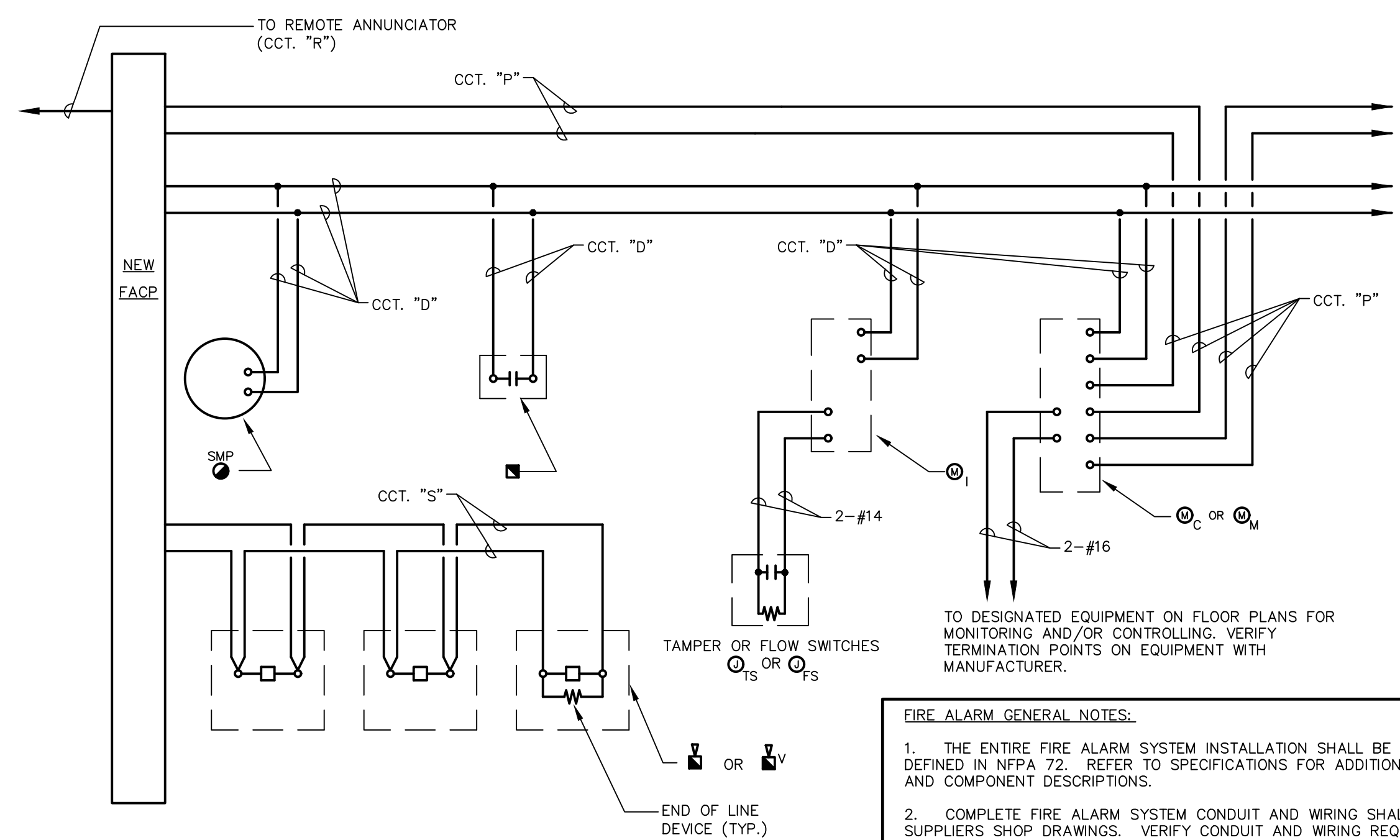
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NO.	DATE	DESCRIPTION



FIRE ALARM CABLE LEGEND

D - DATA - 2/C #18 TWISTED SHIELDED PAIR (WEST PENN #975)

P - POWER - 2/C #14 (WEST PENN #972)

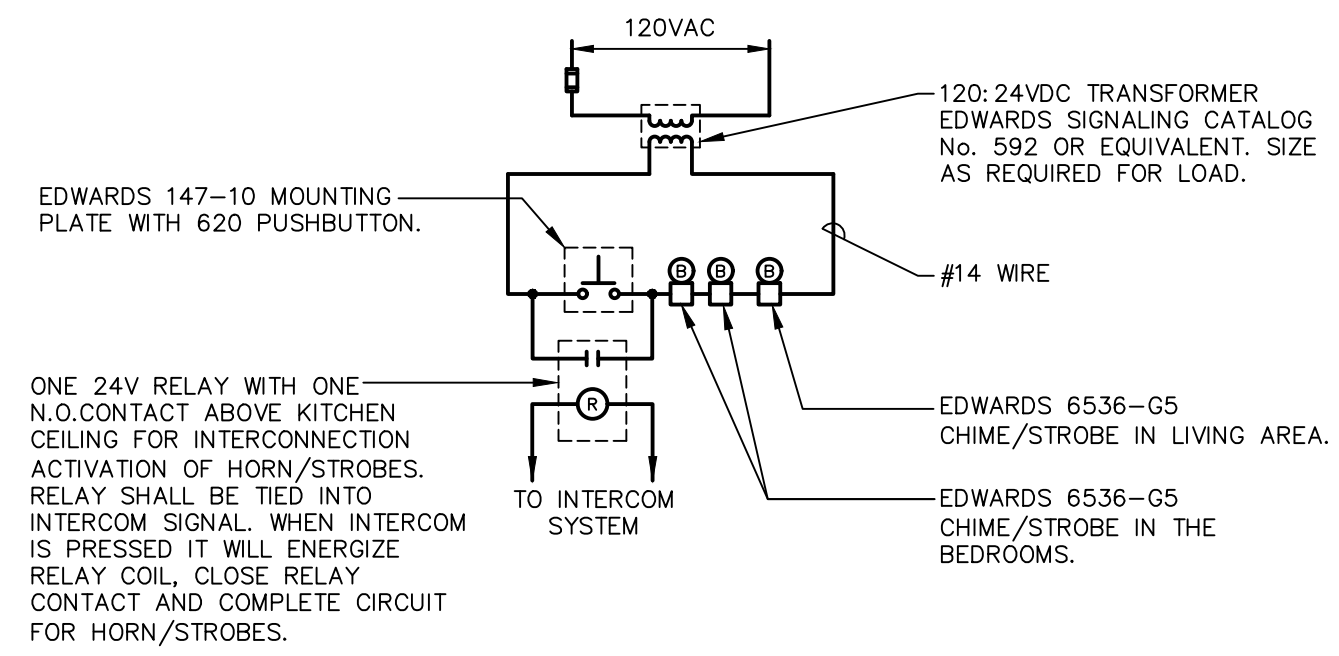
S - SIGNAL - 2/C #14 (WEST PENN #972)

R - REMOTE - 2/C #18 TWISTED SHIELDED PAIR AND 2/C #14 (WEST PENN #975 AND #972 RESPECTIVELY)

FIRE ALARM GENERAL NOTES:

1. THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE A CLASS B SYSTEM AS DEFINED IN NFPA 72. REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS, AND COMPONENT DESCRIPTIONS.
2. COMPLETE FIRE ALARM SYSTEM CONDUIT AND WIRING SHALL BE INSTALLED PER SUPPLIERS SHOP DRAWINGS. VERIFY CONDUIT AND WIRING REQUIREMENTS WITH SUPPLIER PRIOR TO BID.
3. SEE FLOOR PLAN DRAWINGS FOR FIRE ALARM SYSTEM DEVICE QUANTITIES AND LOCATION.
4. ALL FIRE ALARM WIRING SHALL BE PLENUM-RATED. WIRING SHALL BE INSTALLED ON J-HOOKS ABOVE ACCESSIBLE CEILINGS. WIRING SHALL BE INSTALLED IN 3/4" (MINIMUM) CONDUIT ABOVE INACCESSIBLE CEILINGS AND IN EXPOSED LOCATIONS.

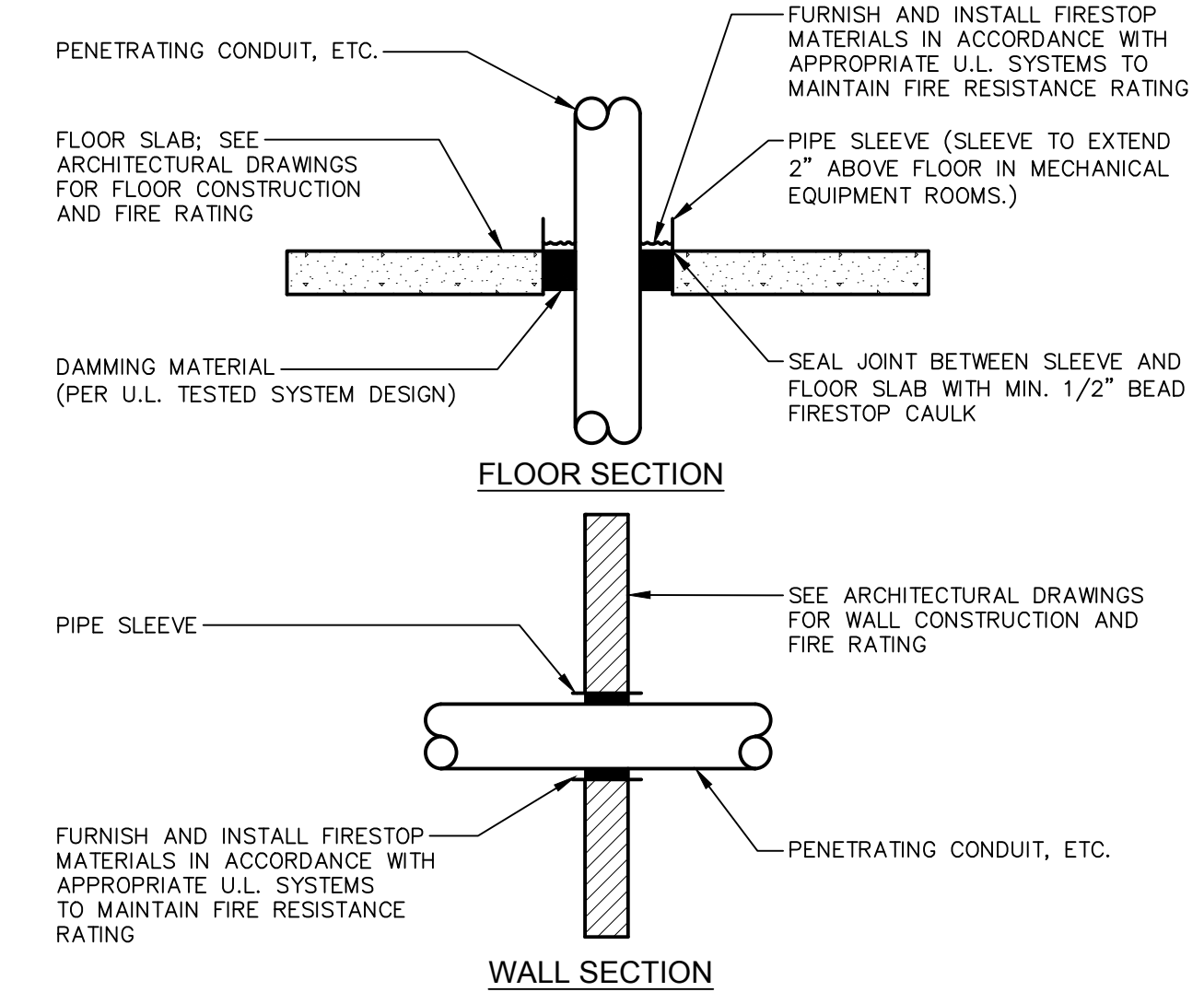
FIRE ALARM WIRING DIAGRAM
N.T.S.



TWO-BEDROOM S&H UNIT DOORBELL DETAIL
N.T.S.

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES

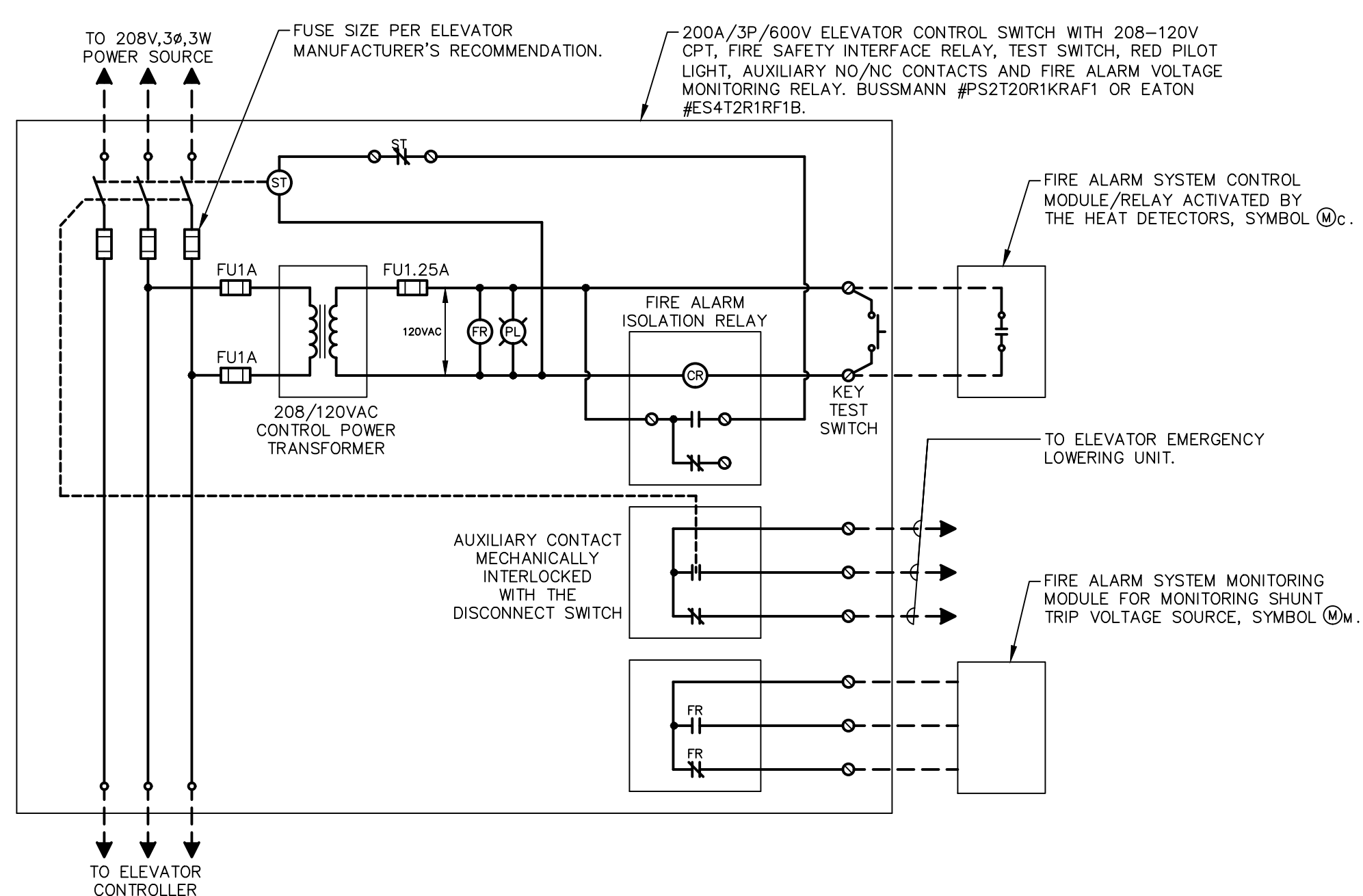
SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL ≤ 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL ≤ 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (≤ 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008



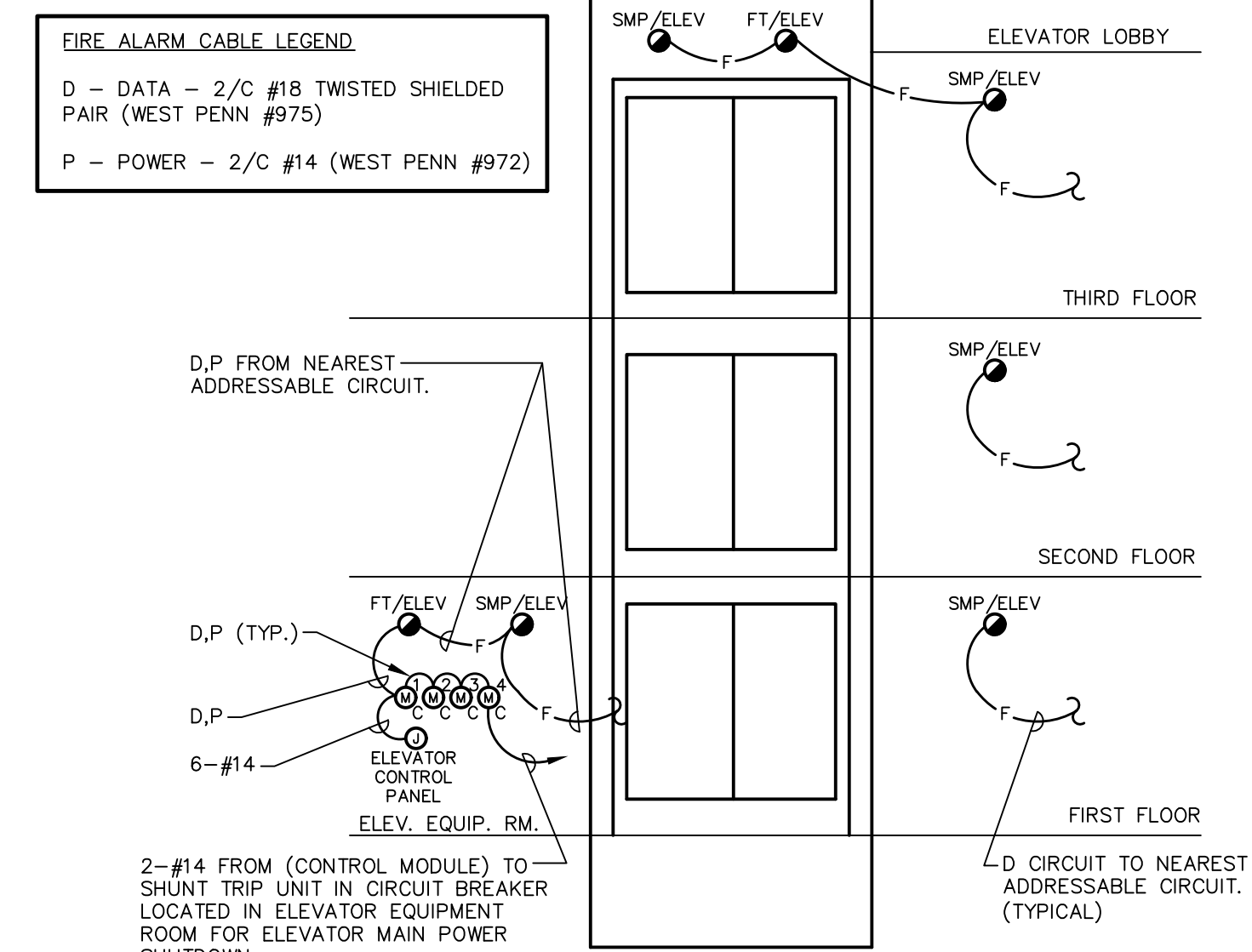
NOTES:

1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.
2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.
3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.
4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.
6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTIONS
N.T.S.



ELEVATOR DISCONNECT/SHUNT TRIP WIRING DIAGRAM
N.T.S.



ADDRESSABLE FIRE ALARM SYSTEM, EQUIP. RM AND SHAFT SPRINKLERED ELEVATOR RECALL FIRE ALARM RISER
N.T.S.

NOTES:

1. ELEVATOR RECALL PHASE 1: (PROTECTS PUBLIC)
CONTROL MODULE 1: RECALL ELEVATOR TO ALTERNATE FLOOR (IF SMOKE DETECTOR IN LOBBY OF DESIGNATED FLOOR IS IN ALARM).
CONTROL MODULE 2: RECALL ELEVATOR TO DESIGNATED FLOOR (IF SMOKE DETECTOR IN LOBBY OF ALTERNATE FLOOR IS IN ALARM).
2. ELEVATOR SHUTDOWN: (PROTECTS FIREFIGHTERS)
CONTROL MODULE 3: RECALL ELEVATOR TO NEAREST SAFE FLOOR. ACTIVATED BY SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM AND/OR HOISTWAY.
CONTROL MODULE 4: SHUTS DOWN POWER TO ELEVATOR. ACTIVATED BY HEAT DETECTORS IN ELEVATOR EQUIPMENT ROOM AND/OR HOISTWAY.
3. VERIFY ALL CONTROL MODULE PROGRAMMING INCLUDING ALTERNATE AND DESIGNATED FLOOR WITH AHJ.
4. MOUNT HEAT DETECTOR AND SMOKE DETECTOR HEADS WITHIN 24" OF SPRINKLER HEAD(S).
5. ALL CONDUIT IN ELEVATOR SHAFT AND PIT SHALL BE GRC AND ALL DEVICES SHALL BE WEATHERPROOF.

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