



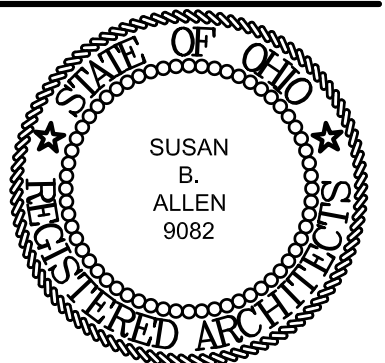
GERMANTOWN CROSSING

1520 GERMANTOWN ST.
DAYTON, OH 45417

100% CONSTRUCTION SET

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

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TITLE SHEET
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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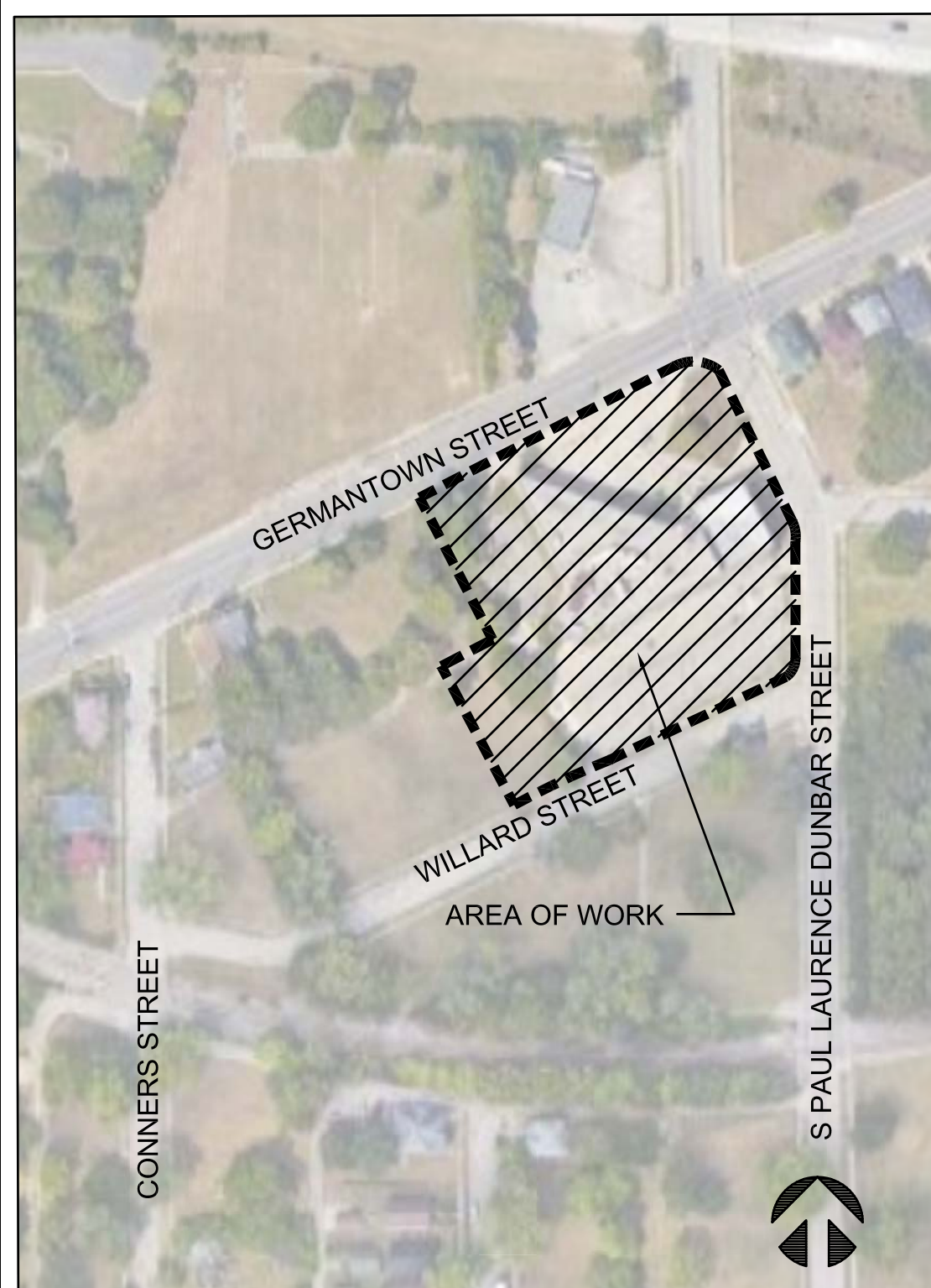
82A21

PROJECT NUMBER

A001

DRAWING NUMBER

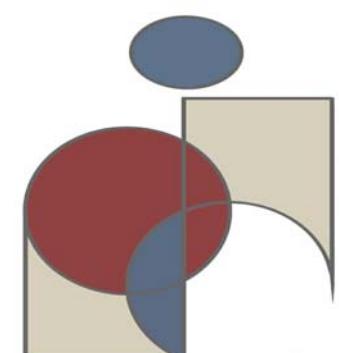
LOCATION MAP



PROJECT TEAM



ARCHITECTURAL DESIGN
430 GRANT STREET
AKRON, OHIO 44311
PHONE: 330-867-1093
FAX: 330-867-4198



INTERIOR DESIGN
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SUITE 102
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FAX: 330-867-4198



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AND ELECTRICAL ENGINEERING
1524 CORPORATE WOODS PRKW.
UNIONTOWN, OH 44685
PHONE: 330-562-2700
sbmce.com



STRUCTURAL ENGINEERING
450 GRANT STREET, SUITE 130
AKRON, OH 44311
PHONE: 330-733-8332

SYMBOLS

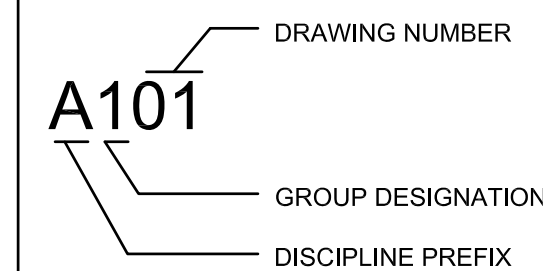
DOOR NUMBER	ROOM NUMBER
	DOOR NUMBER
GLASS TYPE	GLASS TYPE
ROOM NAME AND NUMBER	ROOM NAME
	ROOM NUMBER
WINDOW TYPES	
DOOR TYPES	
FRAME TYPES	
ELEVATION	DETAIL NUMBER
	SHEET WHERE DRAWN
WALL SECTION OR DETAIL	DETAIL NUMBER
	SHEET WHERE DRAWN
PARTITION TYPE	

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

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

DWELLING UNIT DISTRIBUTION

	1 BEDROOM	2 BEDROOM	3 BEDROOM	
MOBILITY UNIT (ACCESSIBILITY UNIT PER ICC A117.1)	3	2	3	
SEEING & HEARING IMPAIRED UNIT (S & H) (TYPE B PER ICC A117.1)		1		
TYPICAL UNIT (TYPE B PER ICC A117.1)	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: CITY OF DAYTON - BUILDING SERVICES DEPARTMENT

APPLICABLE CODE: 2017 OHIO BUILDING CODE
 2017 OHIO PLUMBING CODE
 2017 OHIO MECHANICAL CODE
 2017 NATIONAL ELECTRIC CODE
 ICC A117.1-2009
 2017 INTERNATIONAL ELECTRIC CODE
 UFAS
 HUD 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 BETWEEN UNITS
 SECTION 420.2: WALLS SEPARATING DWELLING UNITS: 1 HOUR (UL U-311)
 SECTION 420.3: HORIZONTAL SEPARATION: 1 HOUR (UL L-550)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS:
 CONSTRUCTION TYPE: 5B FULLY 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)

FLOOR	ALLOWED	ACTUAL
1ST FLOOR R-2	21,000 SF	16,419 SF
1ST FLOOR A-3	18,000 SF	1,032 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	17,842 SF
TOTAL 2ND FLOOR		17,842 SF
3RD FLOOR R-2	18,000 SF	17,740 SF
TOTAL 3RD FLOOR		17,740 SF
BUILDING TOTAL	102,000 SF	54,255 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
- 2 HOUR RATED EGRESS STAIR SHAFTS (IN ACCORDANCE W/ 1023.2)
- 2 HOUR RATED TRASH SHAFTS
- 1 HOUR RATED MACHINE ROOMS
- 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: NFPA-13 SPRINKLER SYSTEM THROUGHOUT
- SEC. 906.1: FIRE EXTINGUISHERS AS REQUIRED BY OHIO FIRE CODE. PROVIDE MINIMUM OF (3) 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:

(R-2) OCCUPANCY	(B) OCCUPANCY	(A-3) OCCUPANCY	TOTAL BUILDING OCCUPANCY
61,587 SF / 200 = 257,935	1,222 SF / 100 = 12,220	845 (COMM. RM) SF / 15 = 56,3	330 POSSIBLE OCCUPANTS
140 (KITCHEN) / 200 = 7	42 (STORAGE) / 300 = 14		

EGRESS WIDTH PER OCCUPANT: (1005.1)
 TYPE (R-2) OCCUPANCY: 2" X 257,935 = 52"
 TYPE (B) OCCUPANCY: 2" X 12,220 = 24"
 TYPE (A-3) OCCUPANCY: 2" X 57,14 = 12"

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

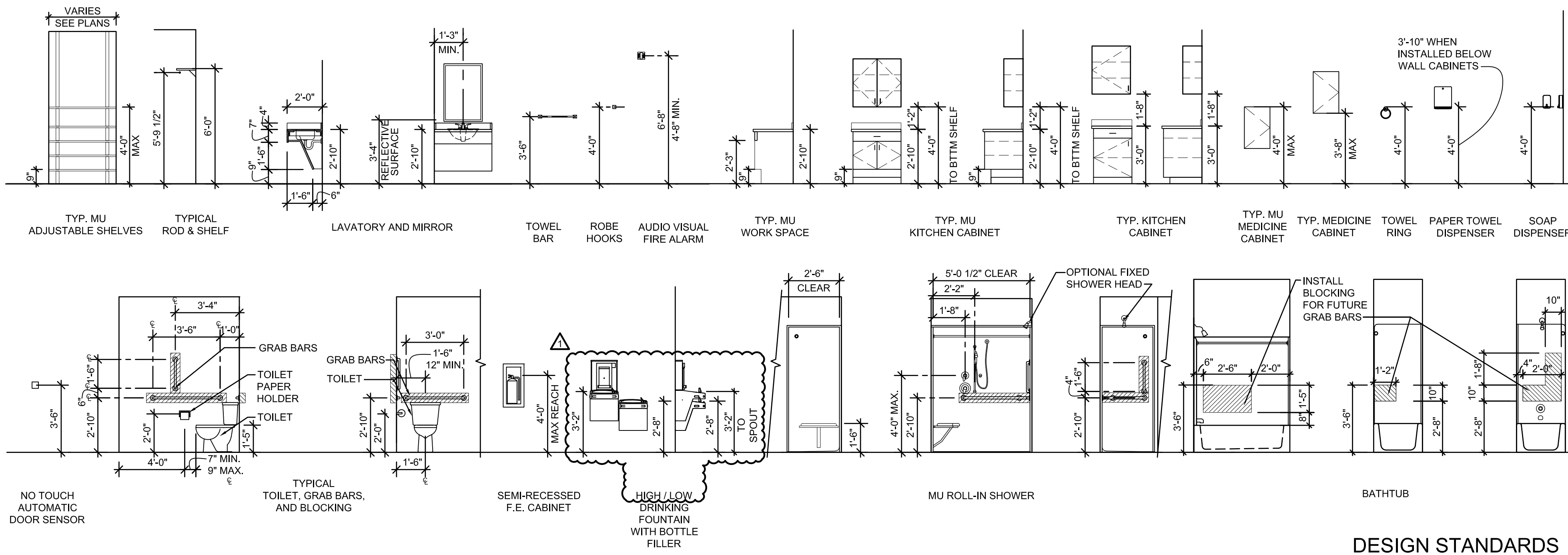
DEAD END CORRIDORS (1020.4): 50'-0" WITH SPRINKLER SYSTEM.

EMERGENCY ESCAPE AND RESCUE: (1030.2)

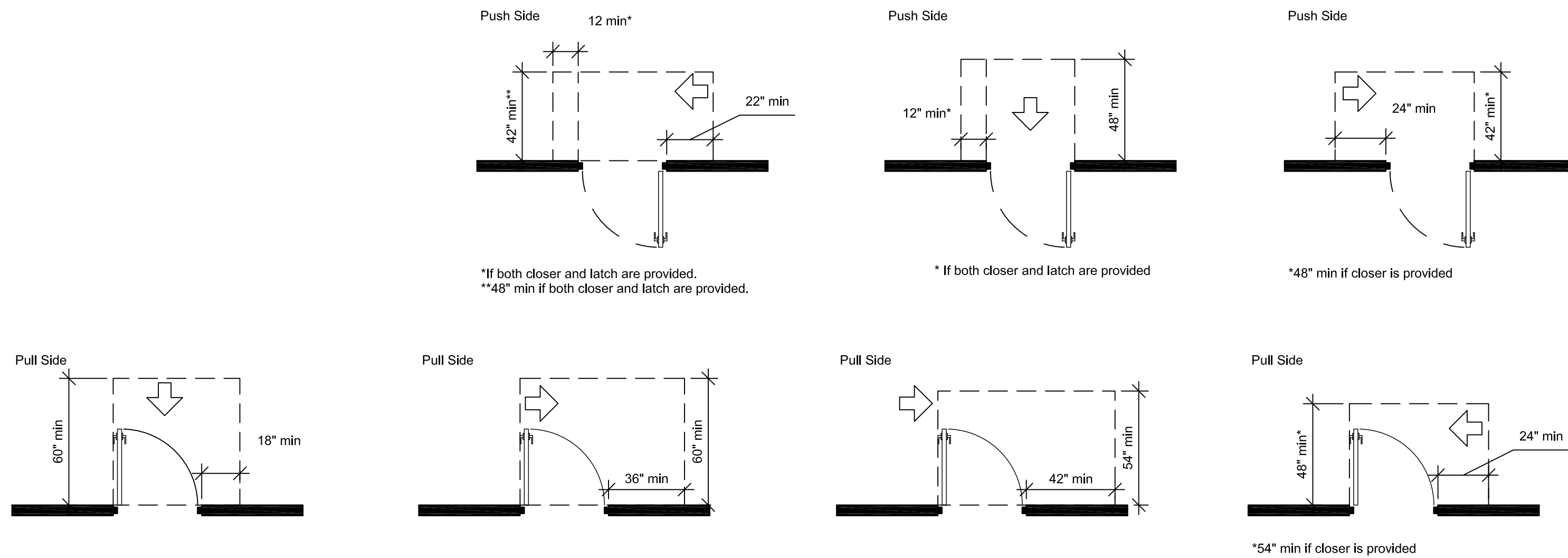
NET CLEAR OPENING = 5.7 SF
 HEIGHT - 24"
 WIDTH = 20"
 SILL = 44" MAX ABOVE FINISH FLOOR

CHAPTER 11: ACCESSIBILITY REQUIREMENTS:

THIS FACILITY IS DESIGNED IN ACCORDANCE WITH ICC A117.1, THE AMERICANS WITH DISABILITIES ACT AND UFAS. THERE ARE A TOTAL OF (42) TYPE B UNITS AND (8) ACCESSIBILITY UNITS PER ICC A117.1 CHAPTER 10.

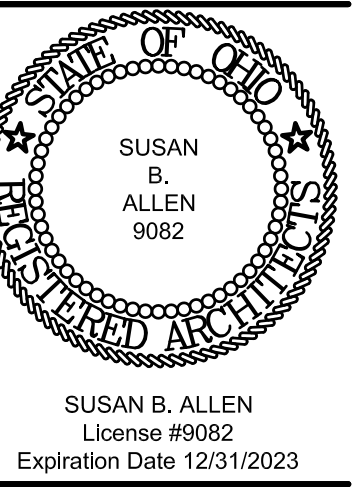


DESIGN STANDARDS



MANEUVERING CLEARANCES FOR ALL DOORS

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



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CODE DATA
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 DAYTON OHIO



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 www.tcarchitects.com

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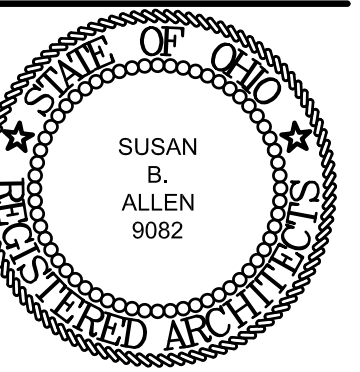
DATE

82A21

PROJECT NUMBER

A002

DRAWING NUMBER



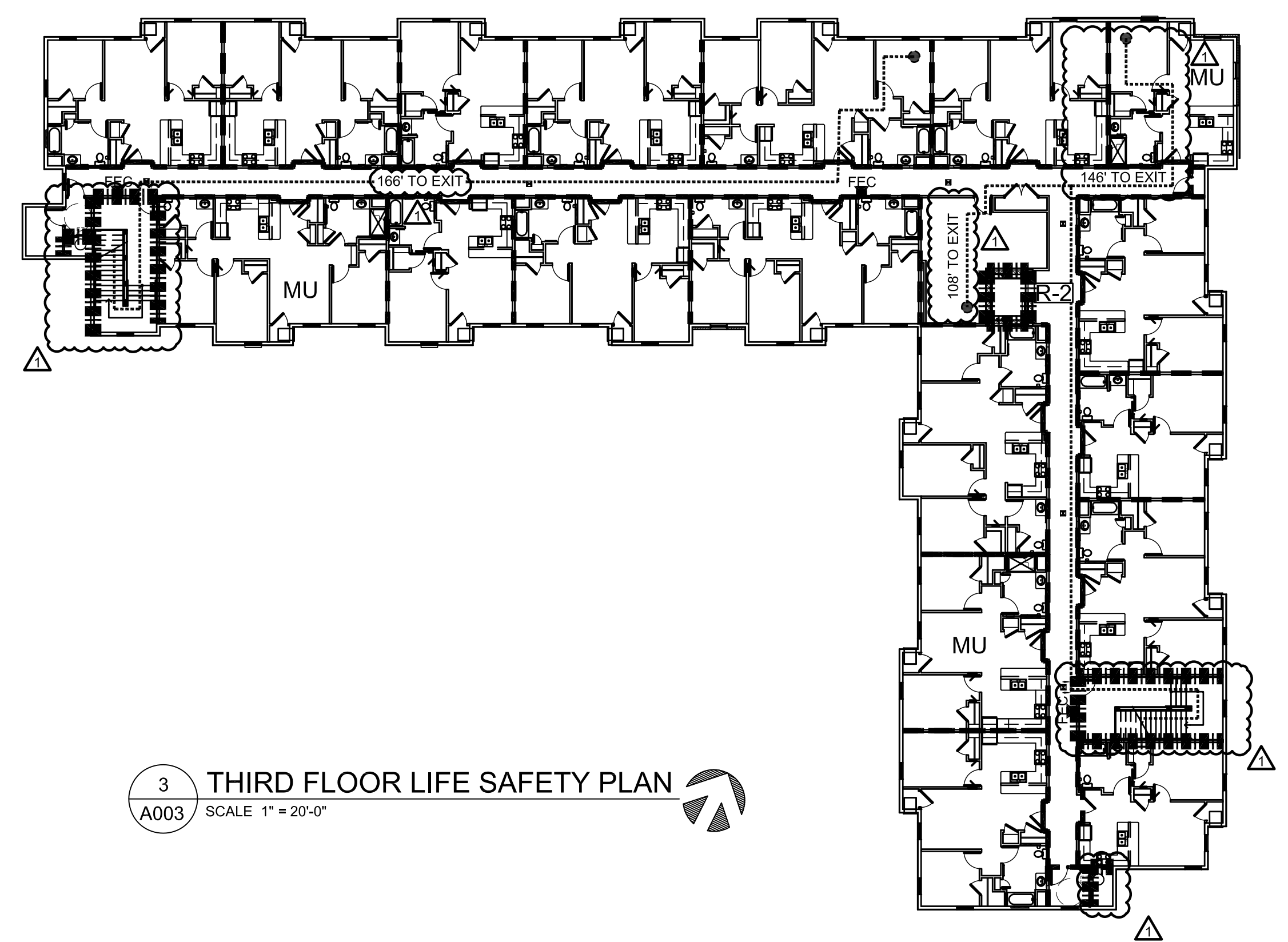
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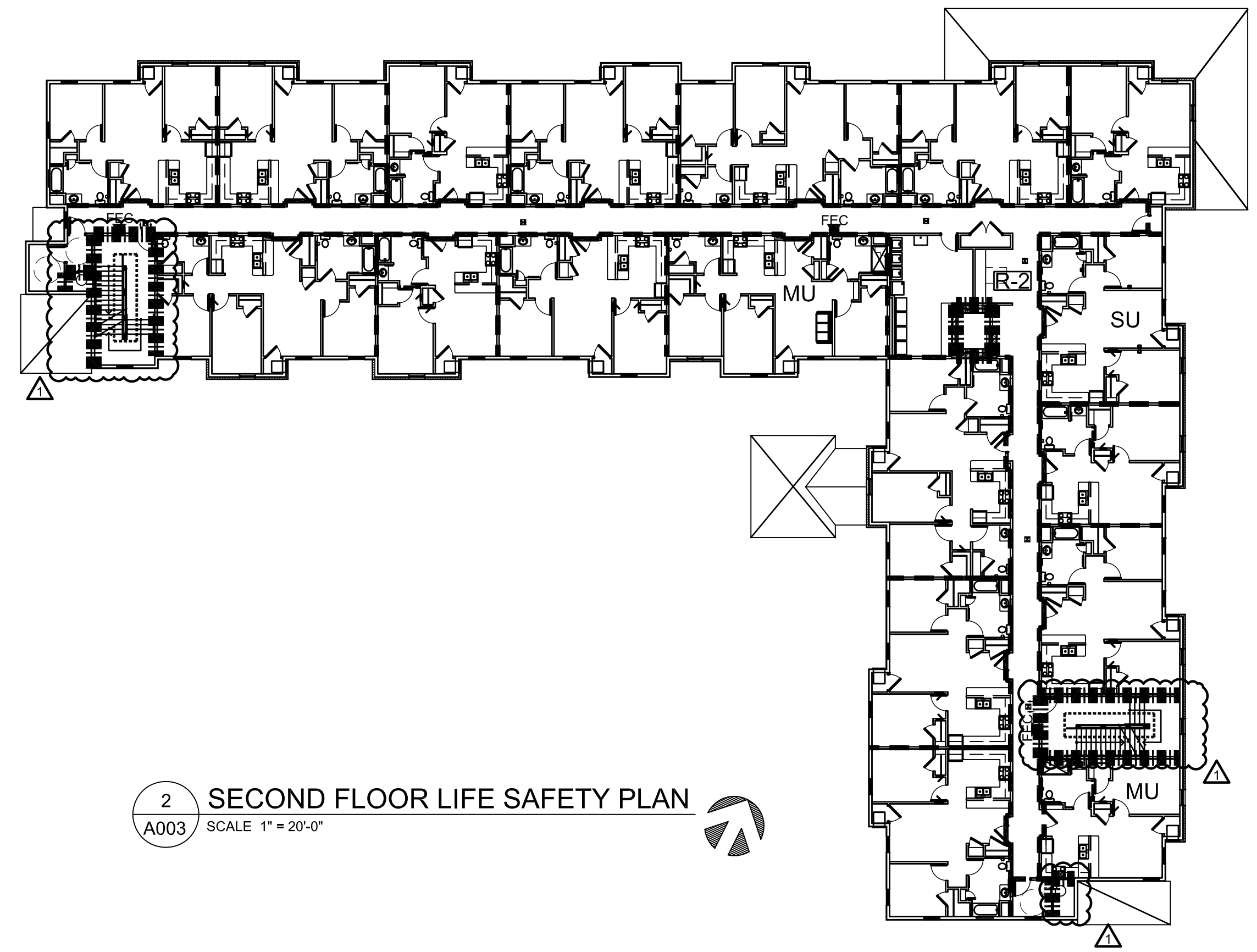
▲ BULLETIN 01 07/17/2023

LEGEND

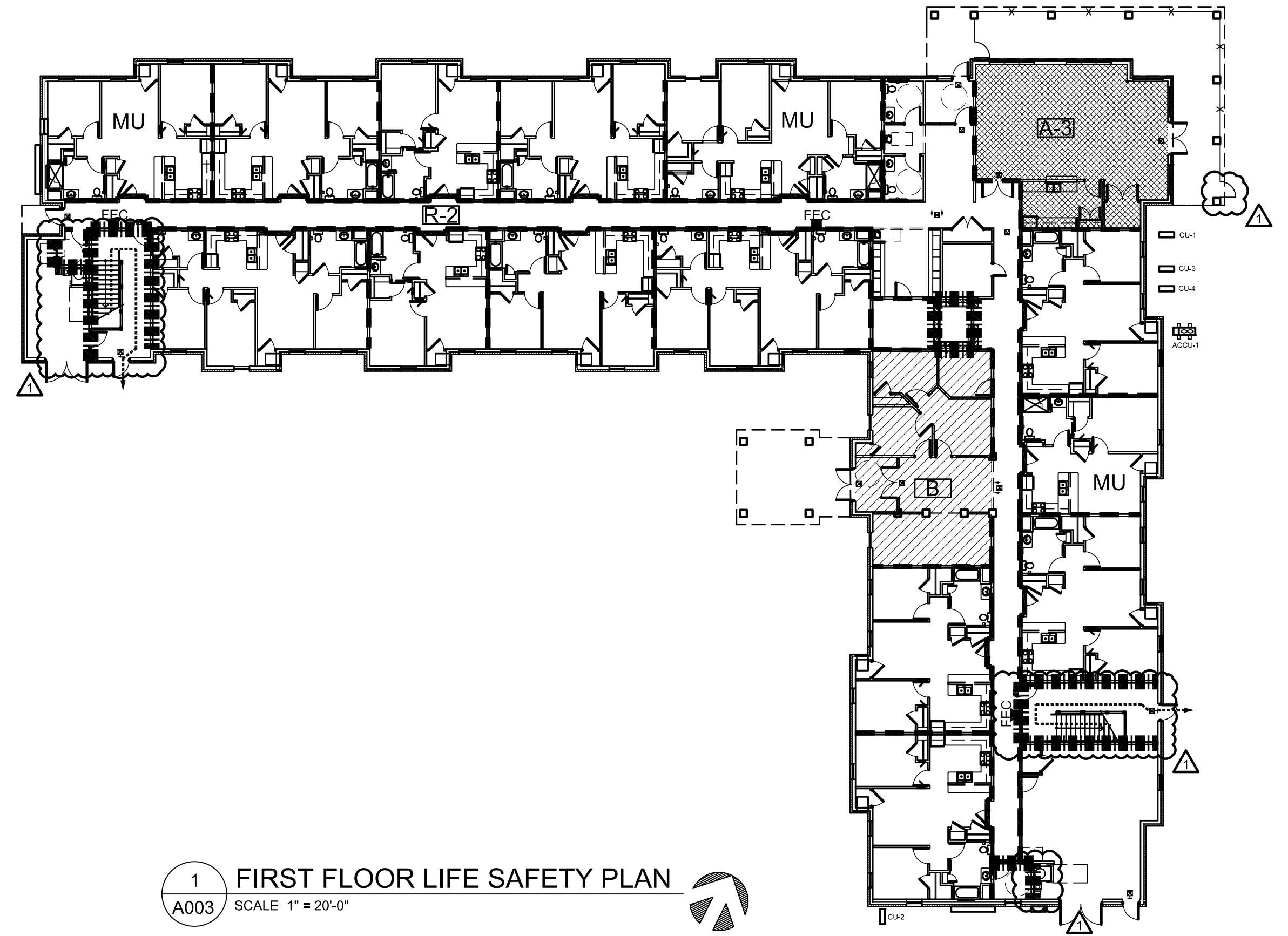
----- 1 HOUR FIRE PARTITION - - - - - 2 HOUR FIRE BARRIER



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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82A21

PROJECT NUMBER

A003

DRAWING NUMBER

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 80% 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)

- 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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 B. PROJECT CONTACTS 4
 C. DEVELOPMENT DETAILS 5
 D. FLOOR AREA DETAILS 5
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 F. SUSTAINABILITY 8
 G. EXCEPTION REQUESTS 8
 H. DESIGN-RELATED COMPETITIVE CRITERIA 9
 I. SCOPE OF WORK 9
 J. UNIVERSAL DESIGN COMPONENTS 12
 K. CERTIFICATION 15

C. DEVELOPMENT DETAILS

- a. Number of sites: 1
- b. Number of residential buildings: 0
- c. Number of accessory buildings: 0
- d. 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.
- e. 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.
- f. Site acreage: 1.69
- g. Total # units: 50
- h. Total # low-income units: 50
- i. Number of efficiency units: 0
- j. Number of one-bedroom units: 13
- k. Number of two-bedroom units: 26
- l. Number of three-bedroom units: 11
- m. Number of four-bedroom units: 0
- n. Building/Zoning variances received: n/a

D. FLOOR AREA DETAILS

Space	GSF	Notes
Gross Square Footage of all Buildings	54,255	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:	40,624	Must include lofts, mezzanine and restricted headroom areas
Managers Unit Area:	0	Must include lofts, mezzanine and restricted headroom areas

Common Area (Public):	2,287	Public restrooms, community rooms, libraries, offices, meeting rooms, kitchens, car canopy, portico, fitness rooms, laundry, mailboxes
Common Area (Circulation):	7,878	Public hallways, stairways, and corridors to residential units.
Dedicated Program Space:	935	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:	2,173	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:	358	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 R20 305.

TOTALS		
Non-Low Income Floor Area	0	Commercial Space Condo Areas + Commercial Areas + Market Rate Unit Area
Low Income Floor Area	48,502	LI unit area + Common Area (Circulation) + Limited Common Area (Private) + Tenant Storage
% Common Area	18.73%	Common Area (Public) + Common Area (Circulation) / Gross Square Footage
Net Rentable Square Footage	54,255	Gross Square Footage - Non-Low Income floor area
Average Net Rentable SQFT per LI Unit	1085.10	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

- 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:

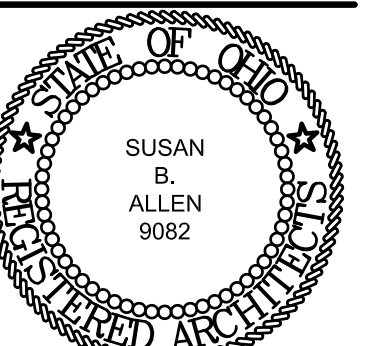
- Electronic format (pdf)
- Separate, single PDF files for drawings including all site plans, dimensioned floor plans, elevations, wall sections, structure, finishes, details and mechanical plans.

A. DEVELOPMENT INFORMATION

- a. Development Name: **Germantown Crossing**
- b. OHFA Tracking Number (final application only):
- c. Address: **1520 Germantown Street**
- d. City: **Dayton**
- e. Zip Code: **45417**
- f. Competitive Pool: **New Affordability- Central City**
- g. Population Served: **Family**
- h. Construction Type: **New Construction**
- i. 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

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



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

REVISIONS

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OHFA DACF FORM

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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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 to 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 OAP.

- 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 1" 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.

F. SUSTAINABILITY

- a. Developments must meet all energy efficiency requirements as stated in the Ohio Building Code or Residential Code.
b. 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 source, 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

- d. 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
e. 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

f. 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 30 parking spaces with 3 handicapped parking spaces. The lot will include concrete curbs, landscaping, lighting and underground retention. 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.

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 OAP 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

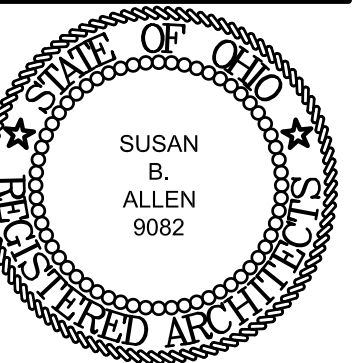
- *36"-wide (minimum) entry door with lever-style handle (mandatory for NC only)
*Minimum 5' x 5' level clear space inside and outside entry door
*Adequate non-glare lighting at walkways, accessible routes, and exterior spaces
*Adequate lighting both inside and outside the building and unit entrance
*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



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82A21

PROJECT NUMBER

A005

DRAWING NUMBER

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	

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	

13

15

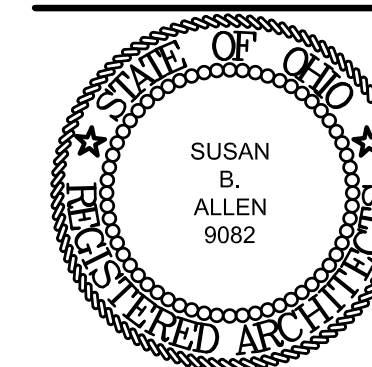
<input checked="" type="checkbox"/>	*Loop handles on drawers and cabinets
<input checked="" type="checkbox"/>	*Non-glare task lighting to illuminate sink, stove, and work areas
<input type="checkbox"/>	Adjustable height shelves in wall cabinets
<input type="checkbox"/>	Base cabinets with pull out drawers
<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.

Closets/Storage

Included?	Page or Note	Item
<input checked="" type="checkbox"/>		Area is well-lit with a switch located outside the space
<input 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

14

16



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Expiration Date 12/31/2023

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ARCHITECTS

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03/31/2023

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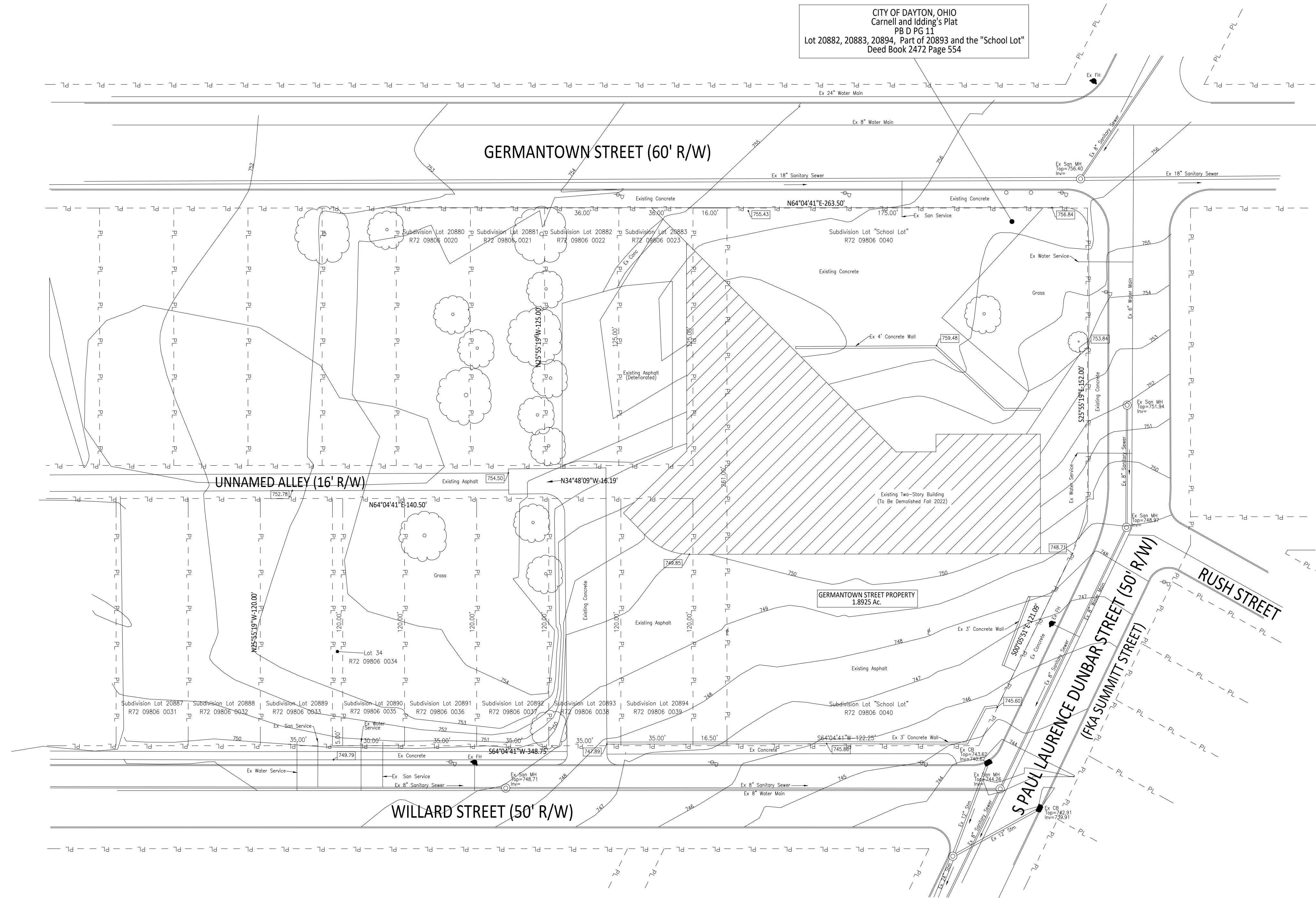
PROJECT NUMBER

A006

DRAWING NUMBER

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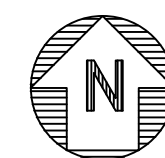
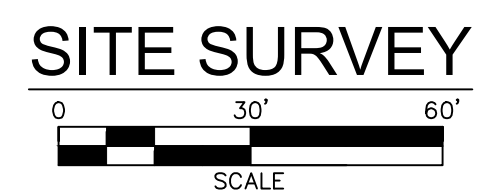
CITY OF DAYTON, OHIO
Carnell and Idding's Plat
PB D PG 11
Lot 20882, 20883, 20894, Part of 20893 and the "School Lot"
Deed Book 2472 Page 554



EXISTING SITE CONDITIONS PLAN
for
GERMANTOWN STREET

City of Dayton
Montgomery County, Ohio

genesis design llc
Civil Engineering
Cincinnati, Ohio • (513) 618-9934 email: genesisdesignllc@gmail.com



REVISIONS

SITE SURVEY
GERMANTOWN CROSSING
DAYTON OHIO



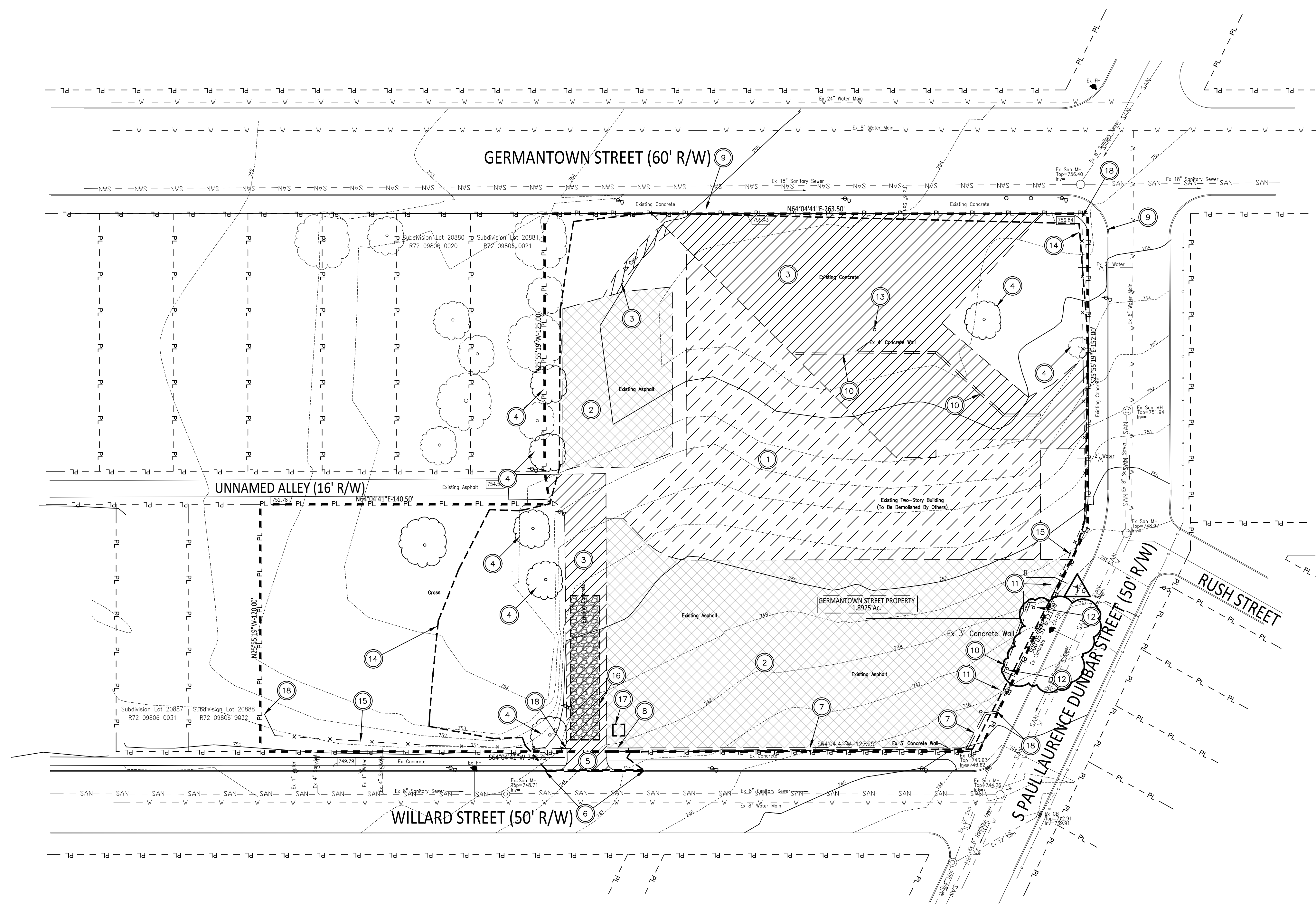
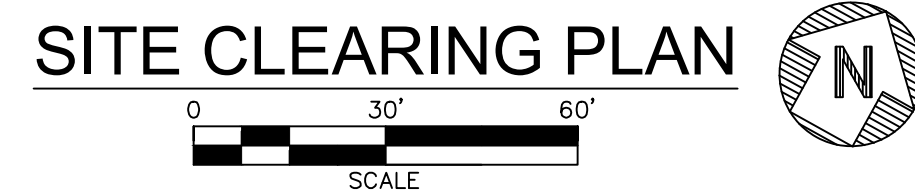
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DATE
82A21
PROJECT NUMBER

C001
DRAWING NUMBER

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CONSTRUCTION NOTES

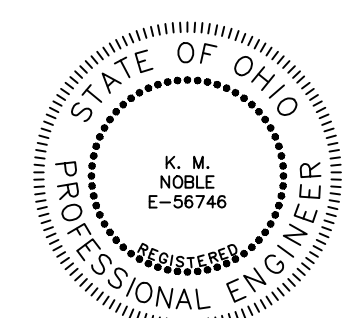
1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL TRAFFIC FLOW.
2. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT'S SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING 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 BE COMPLETELY REMOVED INCLUDING FOUNDATION.
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

▲	BULLETIN 01	07/17/2023

SITE CLEARING PLAN

GERMANTOWN CROSSING
DAYTON OHIO



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PROJECT NUMBER

C100

DRAWING NUMBER

CONSTRUCTION NOTES

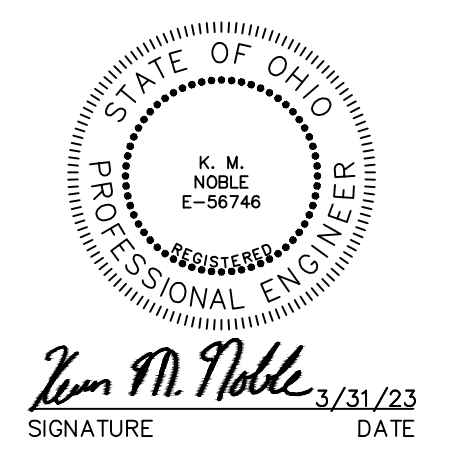
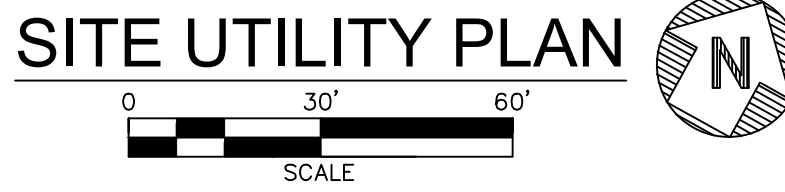
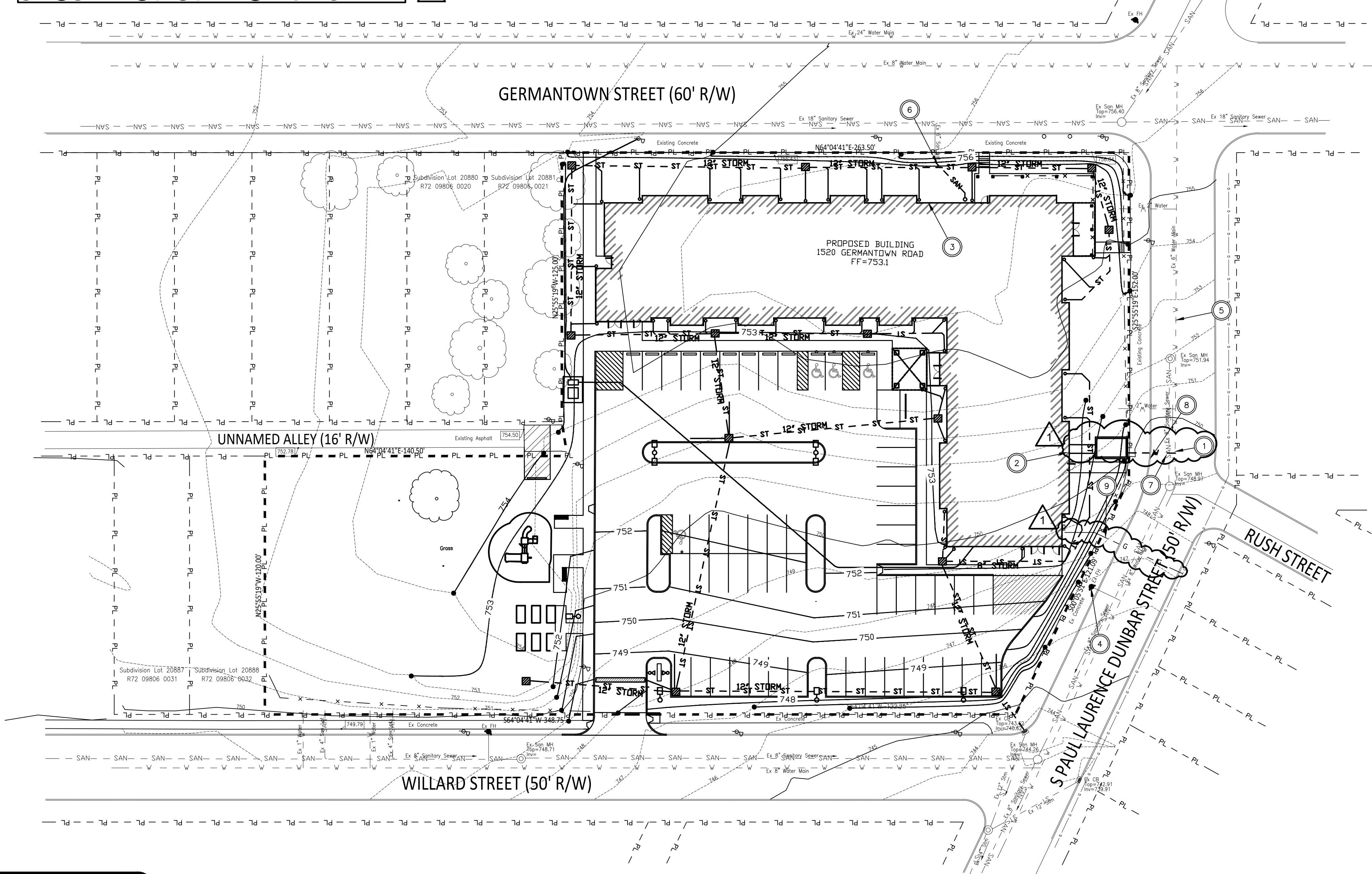
1. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT SURVEY AND AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE 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.
7. CONTRACTOR TO CONTACT REGINA FINLEY AT (937) 333-3742 FOR WATER CONNECTION ESTIMATE AND TO SET UP WORK ORDER FOR WATER UTILITY CONNECTIONS. CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY FEES.
8. THE CONTRACTOR SHALL NEED TO CONTACT THE CITY OF DAYTON, DEPARTMENT OF WATER, CONSTRUCTION INSPECTION, 320 WEST MONUMENT AVENUE, DAYTON, OHIO 45402; AT (937)-333-3725 PRIOR TO BEGINNING WATER SERVICE WORK.

CODED NOTES

1. INSTALL 4" TAPPING SLEEVE AND VALVE AND EXTEND COMBINATION 4" FIRE/WATER LINE TO PROPOSED WATER VAULT. INSTALL 10' X 15' CONCRETE VAULT AT 1' OFFSET FROM PROPERTY LINE. SEE DETAILS ON SHEET C600. SAW CUT ROAD TO FULL DEPTH PRIOR TO ITS REMOVAL AND REPLACE PER CITY OF DAYTON STANDARDS. EXTEND 4" STORM LINE AND TIE INTO STORM BASIN "0" AT INVERT = 746.5.
2. INSIDE VAULT, SPLIT 4" LINE INTO A 4" WATER LINE AND A 4" FIRE LINE AND EXTEND TO 5' FROM BUILDING. COORDINATE WORK WITH THE PLUMBING AND FIRE PROTECTION CONTRACTORS. INSTALL SYSTEM WITH ALL COMPONENTS NOTED IN THE DETAILS ON SHEET C600.
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 = 749.1. 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 748.5.
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.
9. INSTALL 1-1/2" GAS LINE WITH VALVE AS SHOWN. COORDINATE TIE-IN WORK WITH GAS COMPANY. EXTEND TO 1' FROM BUILDING AND CAP ABOVE GRADE. COORDINATE WORK WITH THE PLUMBING CONTRACTOR. BUILDING LOAD = 400 CFH. REMOVE AND REPLACE CURBING/SIDEWALK/ROADWAY AS NECESSARY FOR PIPING INSTALLATION.

CITY CONSTRUCTION NOTES

1. ALL EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO FIELD LOCATE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO SETTING GRADE AND ALIGNMENT. THE CITY OF DAYTON AND THE DEPARTMENT OF WATER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTH OR THE UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COST FOR LOCATING, REMOVING AND REPLACING OR CONSTRUCTION SHALL BE REPAIRED TO THE UTILITY OWNER'S SATISFACTION. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY HAND DIGGING.
2. LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE DEPARTMENT OF WATER.
4. ALL WORK SHALL CONFORM TO THE CITY OF DAYTON, CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION).
5. NO CONSTRUCTION SHALL COMMENCE UNTIL CITY OF DAYTON PERMITS HAVE BEEN ISSUED AS REQUIRED.
6. ALL PROJECT ORDERS (FIELD OR OFFICE), REQUESTS, CHANGES, ADDITIONS OR DELETIONS PERTAINING TO PUBLIC WATER MAIN, STORM SEWER, AND SANITARY SEWER FACILITIES SHALL BE ONLY BE DIRECTION OR REQUEST OF THE DEPARTMENT OF WATER.
7. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES AFFECTED BY STREET CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ACTUAL STREET CLOSING.
8. ROADWAY RESTORATION WITHIN THE CITY OF DAYTON CORPORATION LIMITS SHALL BE DONE IN COMPLIANCE WITH THE DEPARTMENT OF PUBLIC WORKS "RULES AND REGULATIONS FOR MAKING OPENINGS IN A PUBLIC WAY" (LATEST EDITION).
9. FORTY-EIGHT HOURS PRIOR TO ANY CONSTRUCTION, EXCAVATION OR DIGGING, THE CONTRACTOR SHALL CALL AND NOTIFY THE OHIO UTILITIES PROTECTION SERVICES (OUPS) AT 1-800-362-2764. ALL OTHER AGENCIES, WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THIS AREA AND ARE NOT MEMBERS OF OUPS, SHALL BE NOTIFIED DIRECTLY BY THE CONTRACTOR.
10. APPROVAL OF PLANS BY THE DEPARTMENT OF WATER DOES NOT RELIEVE THE DESIGNER, OWNER, OR PERSON IN CONTROL OF THE PROPERTY FROM LIABILITY FOR INJURY TO PERSONS OR PROPERTY.
11. APPROVAL OF THE PLANS SHALL BECOME VOID IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWELVE (12) MONTHS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER. IN ADDITION, THE PLANS SHALL BECOME VOID IF CONSTRUCTION IS NOT COMPLETED WITHIN TWO (2) YEARS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER.
12. ALL FILLS (INCLUDING TRENCH BEDDING AND BACKFILL) INTENDED TO SUPPORT A WATER MAIN, SANITARY SEWER, STORM SEWER OR DRAINAGE CHANNEL SHALL BE COMPACTED TO NOT LESS THAN 90% MAXIMUM DENSITY (MODIFIED PROCTOR TEST ASTM D1557), UNLESS OTHERWISE NOTED. FIELD VERIFICATION AND FORMAL RESULT SUBMITTALS MAY BE REQUESTED (AS NECESSARY) BY THE DEPARTMENT OF WATER.
13. IN ADDITION TO THE NOTES ON THIS SHEET, CONTRACTOR'S ATTENTION SHALL BE DIRECTED TO THE NOTES ON THE ATTACHED SHEETS AS WELL.
14. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED WATER LINE, SANITARY OR STORM SEWER LINES PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID LINES. ALL FILLS SHALL BE CONTROLLED, COMPACTED AND INSPECTED.
15. FORTY-EIGHT HOURS PRIOR TO ANY EARTH DISTURBING WORK, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER AT (937) 333-3739 (FIELD BUREAU).
16. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE. ALL RUNOFF RESULTING FROM CONSTRUCTION OPERATIONS MUST BE FILTERED BY APPROVED METHODS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
17. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED ONCE A WEEK AND AFTER EVERY 1/2" OF RAIN. RECORDS OF SUCH INSPECTION SHALL BE KEPT AT THE JOB SITE AND BE AVAILABLE FOR IMMEDIATE REVIEW UPON REQUEST.
18. IN ADDITION TO ANY TEMPORARY EROSION, SEDIMENT, AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS, EARTH DIKES, TEMPORARY OR PERMANENT SEEDING, MULCHING AND/OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONSTRUCTED OR EXISTING ROADS, OR INTO EXISTING SEWERS OR NEW SEWERS WITHIN THE DEVELOPMENT.
19. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL. DISTURBED AREAS THAT LIE DORMANT FOR 21 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
20. UNTIL IMPROVEMENTS IN THE DEVELOPMENT HAVE BEEN COMPLETED, THE CONTRACTOR SHALL TAKE SUCH MEASURES AS ARE NECESSARY TO PREVENT EROSION OF GRADED SURFACES ONTO ROADWAYS, INTO DRAINAGE COURSES, STORM SEWERS, OR ONTO ADJOINING LAND. FOR ANY EARTH DISTURBANCE OR ANY DEVELOPMENT APPROVED BY THE DEPARTMENT OF WATER, THE CONTRACTOR SHALL CLEAN ANY MUD OR DEBRIS DEPOSITED ON ROADWAYS, DRAINAGE COURSES, OR ADJOINING PROPERTY WHEN THE MUD AND DEBRIS ORIGINATES FROM THE EARTH MOVING OPERATIONS.
21. ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY (WITHIN 24 HOURS) REMOVED.
22. FOR DEVELOPMENT SITES, EROSION CONTROL MEASURES SHALL BE ENFORCED ON INDIVIDUAL OR RESIDENTIAL LOTS. THIS SHALL INCLUDE A CONSTRUCTION ENTRANCE (REFER TO DETAIL - ER-B) AND SILT FENCE ACROSS THE FRONTAGE OF EACH PROPERTY AND A TEMPORARY DIVERSION DITCH ON EACH LOT.
23. THIS PROJECT IS SUBJECT TO INSPECTION BY THE DEPARTMENT OF WATER PERSONNEL FOR COMPLIANCE WITH THE CITY'S STORM WATER ORDINANCE DURING AND AFTER CONSTRUCTION. THIS INSPECTION IS NOT LIMITED TO INSPECTION OF EROSION CONTROL FACILITIES, SURFACE DRAINAGE, AND DETENTION/RETENTION FACILITIES. ADDITIONAL MEASURES MAY BE REQUIRED IF VIOLATIONS OF THE ORDINANCE OCCUR AND WATER DEPARTMENT PERSONNEL DEEM IT NECESSARY. ALL MEASURES SHALL COMPLY WITH CITY OF DAYTON STANDARDS AND "RAINWATER MID LAND DEVELOPMENT, OHIO'S STANDARD FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION", (LATEST EDITION).



REVISIONS

▲	BULLETIN 01	07/17/2023

SITE UTILITY PLAN
GERMANTOWN CROSSING
DAYTON OHIO



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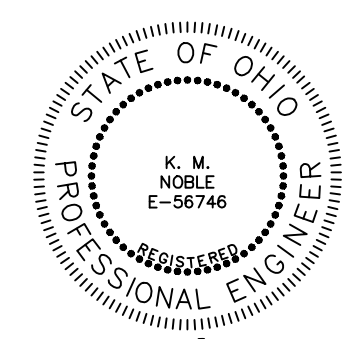
TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

C200
DRAWING NUMBER

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Ken M. Noble 3/31/23
SIGNATURE DATE

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▲ BULLETIN 01 07/17/2023

SITE PAVING PLAN
GERMANTOWN CROSSING
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TURNING VISIONS
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82A21
PROJECT NUMBER

C300
DRAWING NUMBER

CONSTRUCTION NOTES

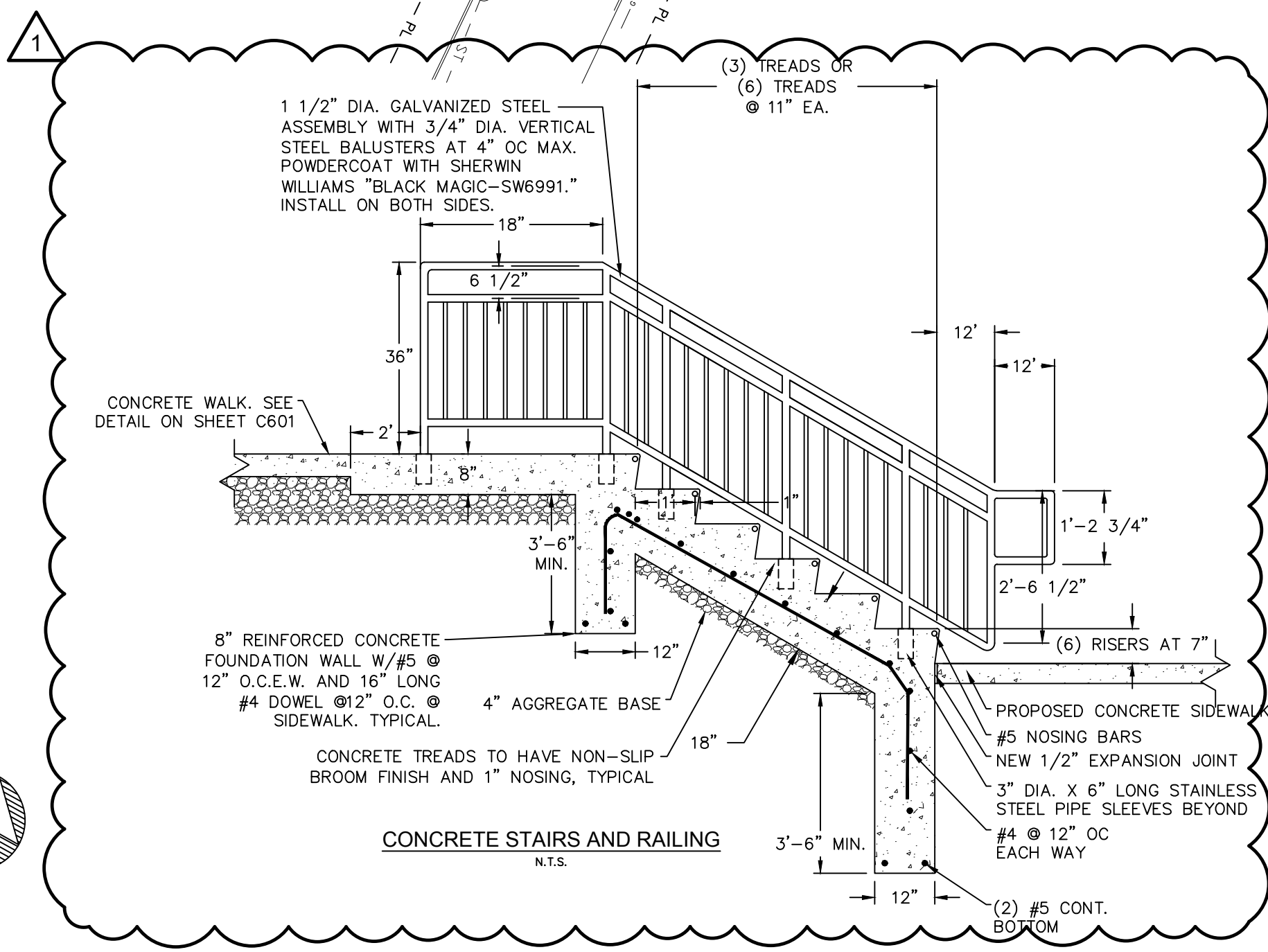
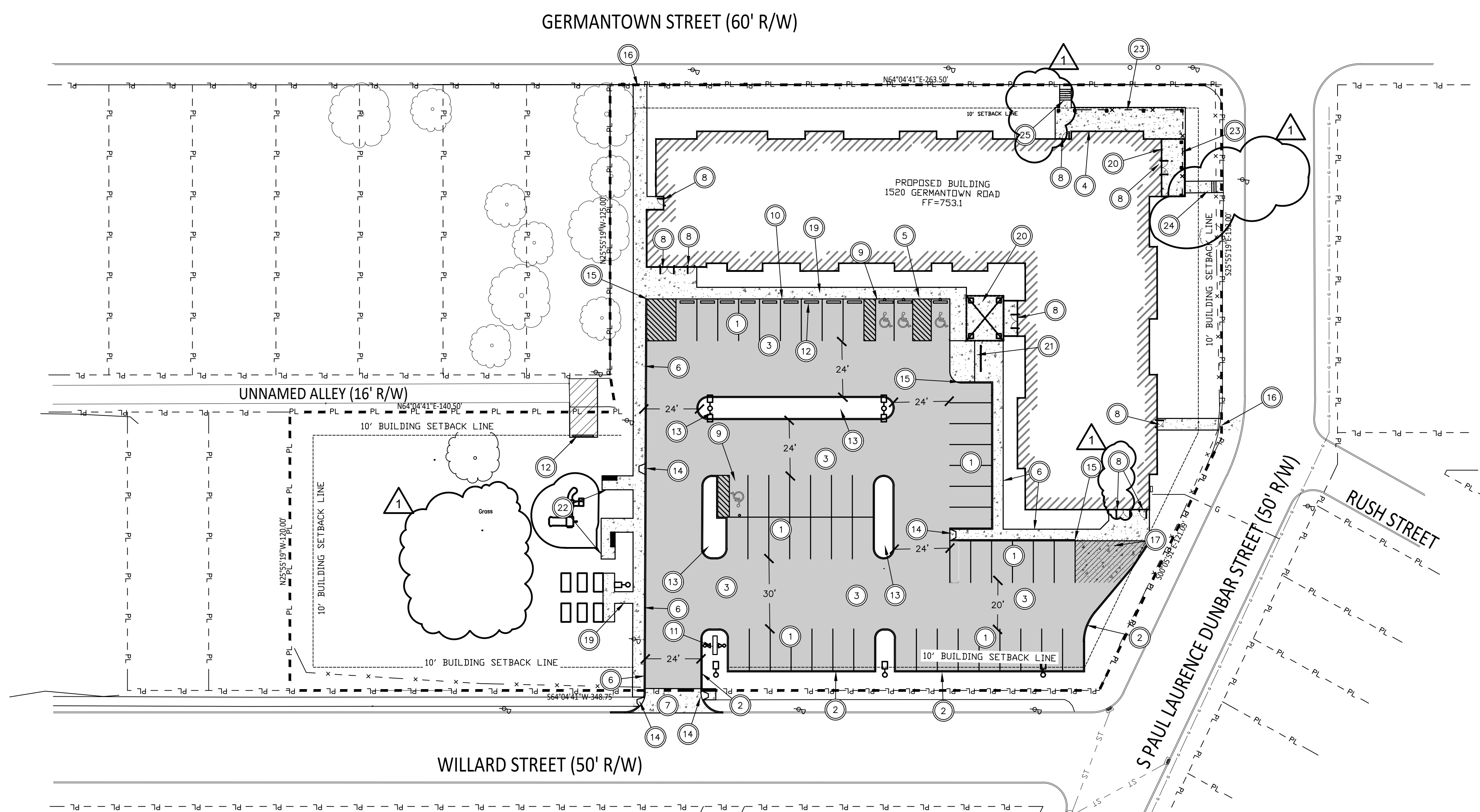
1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL FLOW OF THE TRAFFIC.
2. ALL PAVEMENT SHALL BE GOVERNED BY THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.
3. ALL POINTS OF CONNECTION OF PROPOSED IMPROVEMENTS TO EXISTING CONDITIONS SHALL BE UNCOVERED AND ELEVATIONS VERIFIED BY FIELD CHECK BEFORE ANY CONSTRUCTION BEGINS.
4. CONTRACTOR IS TO REGRADE TO MATCH EXISTING ELEVATIONS. RESEED AND MULCH IN ALL DISTURBED AREAS.
5. CAD FILES OF THE LAYOUT WILL BE PROVIDED BY THE ENGINEER TO THE CONTRACTOR FOR HIS USE IN LAYING OUT THE SITE.

CODED NOTES

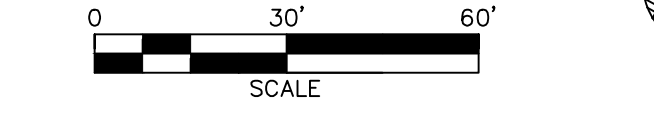
1. STRIPE 9'X18' PARKING SPACES AS SHOWN.
2. INSTALL 6" VERTICAL CURBING.
3. INSTALL ASPHALT PAVING IN SHADED AREA PER DETAIL SHEET C601.
4. INSTALL BUILDING PARALLEL TO THE NORTH PROPERTY LINE (RIGHT-OF-WAY) AND OFFSET 20'-0" TO THAT LINE.
5. INSTALL 8' WIDE HANDICAP SPACE WITH 8' UNLOADING SPACE. PAINT HANDICAP SYMBOL AND STRIPING AS SHOWN. PROVIDE WITH HANDICAP SIGN.
6. INSTALL 5' WIDE INTEGRAL CONCRETE CURBING/SIDEWALK PER DETAIL ON SHEET C601.
7. INSTALL CONCRETE APRON WITHIN RIGHT-OF-WAY PER CITY OF DAYTON STANDARDS.
8. INSTALL FROST PROOF SLABS AT DOOR PER DETAILS ON THE ARCHITECTURAL PLANS.
9. INSTALL 8' WIDE HANDICAP SPACES AND 5' WIDE UNLOADING SPACE. PAINT HANDICAP SYMBOL AND INSTALL HANDICAP SIGN.
10. TOP OF ASPHALT TO MEET TOP OF SIDEWALK.
11. PROPOSED SIGN.
12. INSTALL CONCRETE WHEEL STOP PER DETAIL ON SHEET C600. (TYPICAL).
13. LANDSCAPE ISLAND.
14. INSTALL HANDICAP RAMP PER DETAIL ON SHEET C601.
15. INSTALL 5' CURB TAPER.
16. INSTALL 5' CONCRETE SIDEWALK AND MATCH TOP OF EXISTING SIDEWALK.
17. INSTALL CONCRETE PAVEMENT IN HATCHED AREA PER CONCRETE PAD/APRON DETAIL ON SHEET C601.
18. NOT USED.
19. PROPOSED 5' WIDE CONCRETE SIDEWALK.
20. INSTALL CONCRETE SIDEWALK UNDER CANOPY AREA. TOP OF CONCRETE = 753.1 AT DOORS. SLOPE AWAY AT 1/4" PER FOOT.
21. PROPOSED BICYCLE RACK. SEE DETAIL ON SHEET C602.
22. PROPOSED 6' WIDE CONCRETE SIDEWALK.
23. FENCING AROUND PORCH. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
24. INSTALL 5' WIDE CONCRETE SIDEWALK WITH THREE 11" LONG BY 7" HIGH STEPS. INSTALL WITH HANDRAIL PER DETAIL THIS SHEET. INSTALL WITH 3' LONG PAD ADJOINING EXISTING SIDEWALK WITH TOP OF CONCRETE AT TOP OF STEPS = 754.6. THE TOP OF CONCRETE AT THE BOTTOM OF THE STAIRS = 752.9. SLOPE CONCRETE AT BOTTOM OF STEPS TO PORCH WITH 1/4" PER FOOT CROSS SLOPE TO THE NORTH TOWARDS STORM BASIN "A." SEE "CONCRETE STAIRS AND RAILING" DETAIL THIS SHEET.
25. INSTALL 5' WIDE CONCRETE SIDEWALK WITH SIX 11" LONG BY 7" HIGH STEPS. INSTALL WITH HANDRAIL PER DETAIL THIS SHEET. INSTALL WITH 2' LONG PAD ADJOINING EXISTING SIDEWALK WITH TOP OF CONCRETE AT TOP OF STEPS = 756.4. THE TOP OF CONCRETE AT THE BOTTOM OF THE STAIRS = 752.9. SLOPE CONCRETE AT BOTTOM OF STEPS TO PORCH WITH 1/4" PER FOOT CROSS SLOPE TO THE WEST TOWARDS STORM BASIN "C." SEE "CONCRETE STAIRS AND RAILING" DETAIL THIS SHEET.

LEGEND

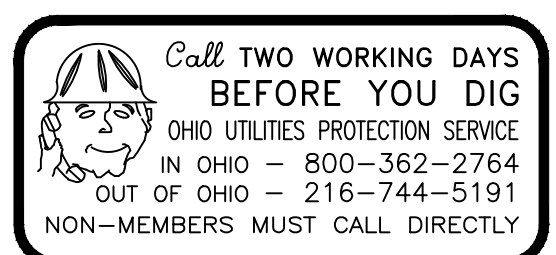
	PROPOSED ASPHALT
	PROPOSED CONCRETE PAVEMENT



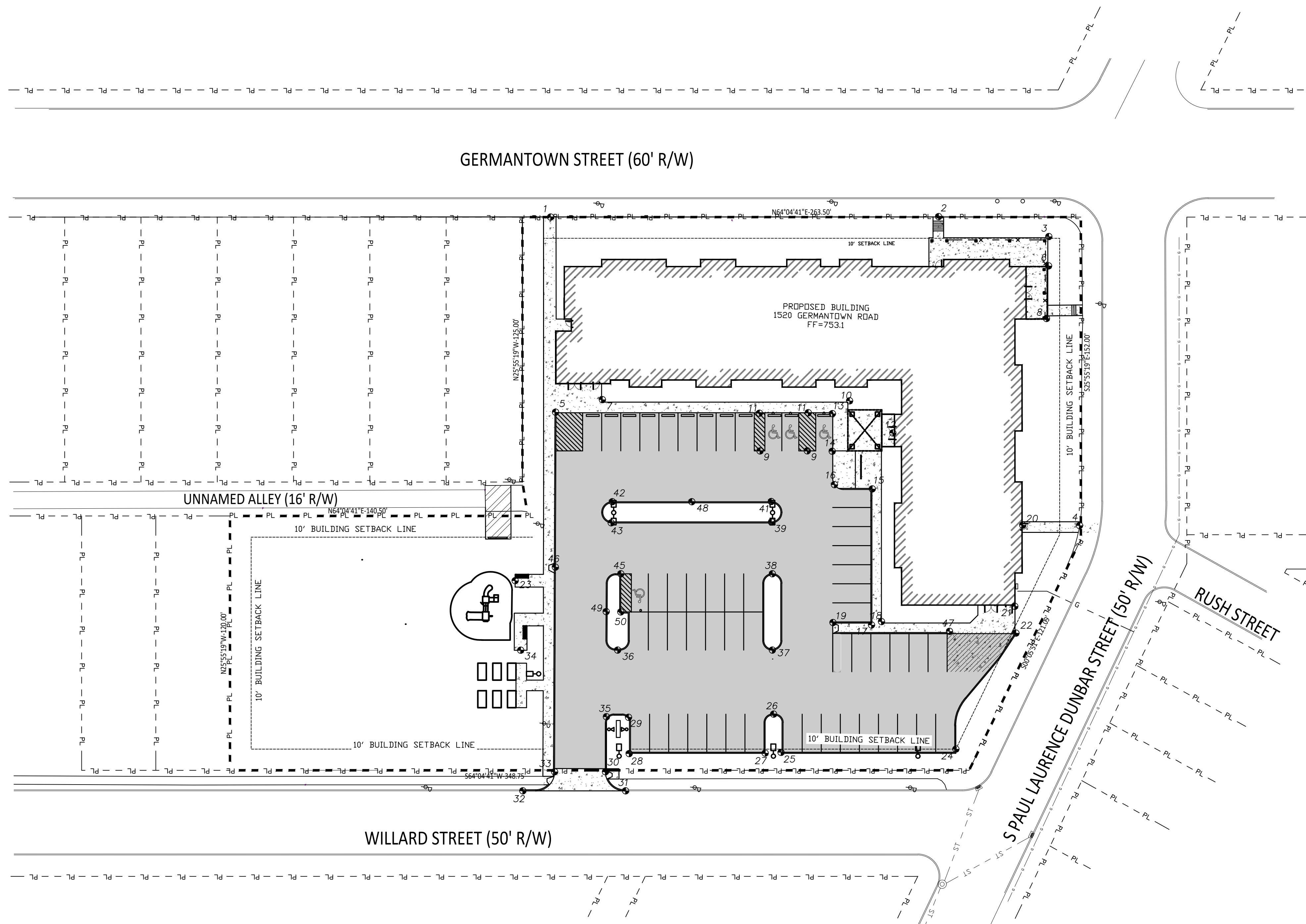
SITE PAVING PLAN



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SITE LAYOUT STATIONING

POINT #	DESCRIPTION	ELEVATION
1	END OF SIDEWALK	MATCH EXISTING
2	END OF SIDEWALK	MATCH EXISTING
3	CORNER OF SIDEWALK	752.9
4	END OF SIDEWALK	MATCH EX.
5	CORNER OF SIDEWALK	752.8
6	EDGE OF PAVEMENT	752.9
7	CORNER OF SIDEWALK	752.9
8	EDGE OF PAVEMENT	752.9
9	END OF UNLOADING ZONE	752.7
10	CORNER OF SIDEWALK	752.9
11	TOP OF UNLOADING ZONE	752.8
12	EDGE OF PAVEMENT	753.1
13	CORNER OF SIDEWALK	752.8
14	EDGE OF PAVEMENT	752.7
15	CORNER OF SIDEWALK	752.8
16	MIDPOINT OF 5' RADIUS	752.6
17	CORNER OF SIDEWALK	752.3
18	CORNER OF SIDEWALK	752.3
19	CORNER OF PAVEMENT	752.1
20	EDGE OF PAVEMENT	753.1
21	CORNER OF BUILDING	753.1
22	CORNER OF SIDEWALK	751.9
23	TOP OF SIDEWALK	752.7
24	CORNER OF PAVEMENT	748.1 (LP)
25	CORNER OF PAVEMENT	748.8
26	END OF 4.5' RADIUS	749.5
27	CORNER OF PAVEMENT	748.8
28	CORNER OF PAVEMENT	748.3 (LP)
29	MIDPOINT OF 5' RADIUS	748.9
30	END OF CONCRETE APRON	MATCH EXISTING
31	END OF 9' RADIUS	MATCH EXISTING
32	END OF 9' RADIUS	MATCH EXISTING
33	END OF CONCRETE APRON	MATCH EXISTING
34	END OF SIDEWALK	752.1
35	MIDPOINT OF 5' RADIUS	748.9
36	END OF 4.5' RADIUS	750.9
37	END OF 4.5' RADIUS	751.6
38	END OF 4.5' RADIUS	752.2
39	END OF 4.5' RADIUS	752.3
41	END OF 5' RADIUS	752.4
42	END OF 5' RADIUS	752.4
43	END OF 5' RADIUS	752.3
45	CORNER OF PAVEMENT	752.1
46	END OF HC RAMP	752.2
47	EDGE OF PAVEMENT	751.9
48	EDGE OF PAVEMENT	752.0 (LP)
49	EDGE OF PAVEMENT	751.8
50	CORNER OF PAVEMENT	751.7

ELEVATIONS ARE TO TOP OF PAVEMENT WHERE APPLICABLE.
 *RADI LISTED ARE TO THE OUTSIDE CURB LINE
 (HP) = HIGH POINT
 (LP) = LOW POINT

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

REVISIONS

SITE LAYOUT PLAN
GERMANTOWN CROSSING
DAYTON OHIO

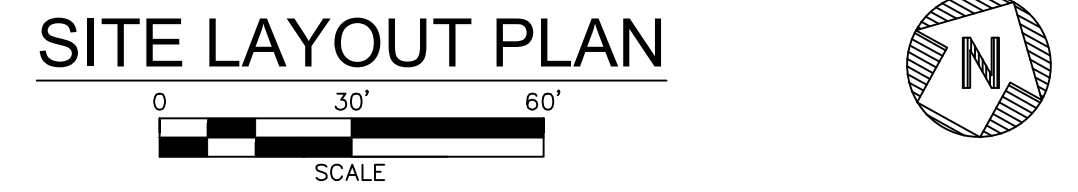


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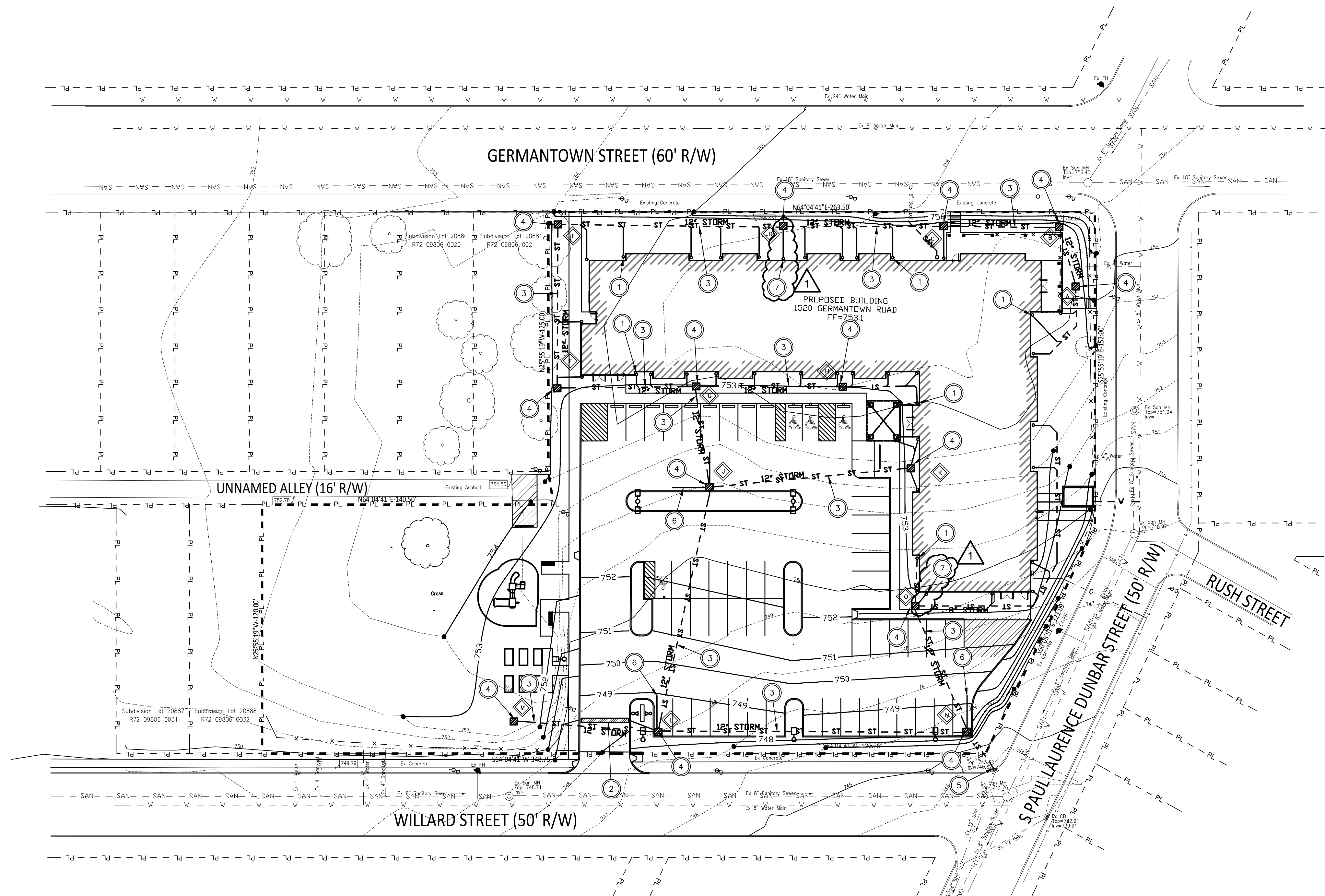
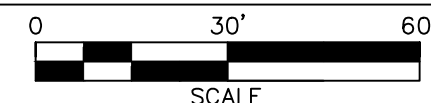
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STORM SEWER AND GRADING PLAN



CONSTRUCTION NOTES

- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL CONDUCT HIS OPERATIONS SUCH THAT THE FLOW OF ALL EXISTING SEWERS AND LATERALS WILL BE MAINTAINED AT ALL TIMES.

CODED NOTES

- 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).
- INSTALL TRENCH DRAIN "A" PER DETAIL ON SHEET C601.
- INSTALL 12" STORM SEWER.
- INSTALL INLET BASIN. INSTALL INLET PROTECTION AROUND BASIN AND REMOVE AT THE END OF THE PROJECT.
- MAKE WATERTIGHT CONNECTION INTO EXISTING BASIN AT INVERT = 740.62.
- INSTALL 20' LONG BY 4" PERFORATED (NO FILTER SOCK) SUBSURFACE DRAINS WITHIN BASE COURSE, TYPICAL OF THREE AT EACH BASIN IN THE PARKING LOT.
- EXTEND 4" DRAIN LINE AND TIE INTO THE BUILDING'S FOUNDATION DRAIN.

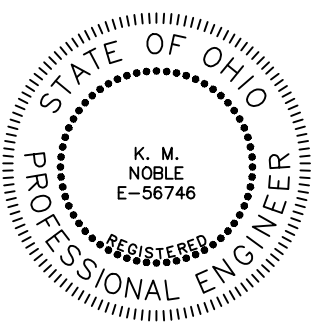
LEGEND



SEWER SUMMARY

<p>PROP. INLET BASIN "A" PROP. CASTING = 752.6 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 PROP. 8" INV (S) = 750.0</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 PROP. 4" INV (S) = 749.0</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) = 746.0 PROP. 6" INV (N) = 750.8 PROP. 8" INV (E) = 750.0 PROP. 4" INV (NE) = 749.0</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.



Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS

▲ BULLETIN 01 07/17/2023

STORM SEWER AND GRADING PLAN

GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

C400

DRAWING NUMBER

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.

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.

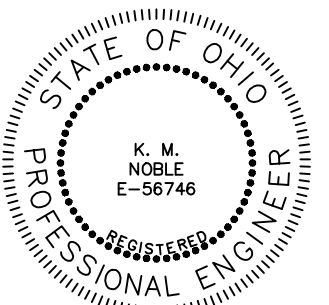
GENERAL NOTES FOR NON – SEDIMENT POLLUTANT CONTROLS

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.

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.

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

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TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER

C500
DRAWING NUMBER

REVISIONS

EROSION CONTROL DETAILS
GERMANTOWN CROSSING
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TURNING VISIONS
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PROJECT NUMBER

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STABILIZED CONSTRUCTION ENTRANCE

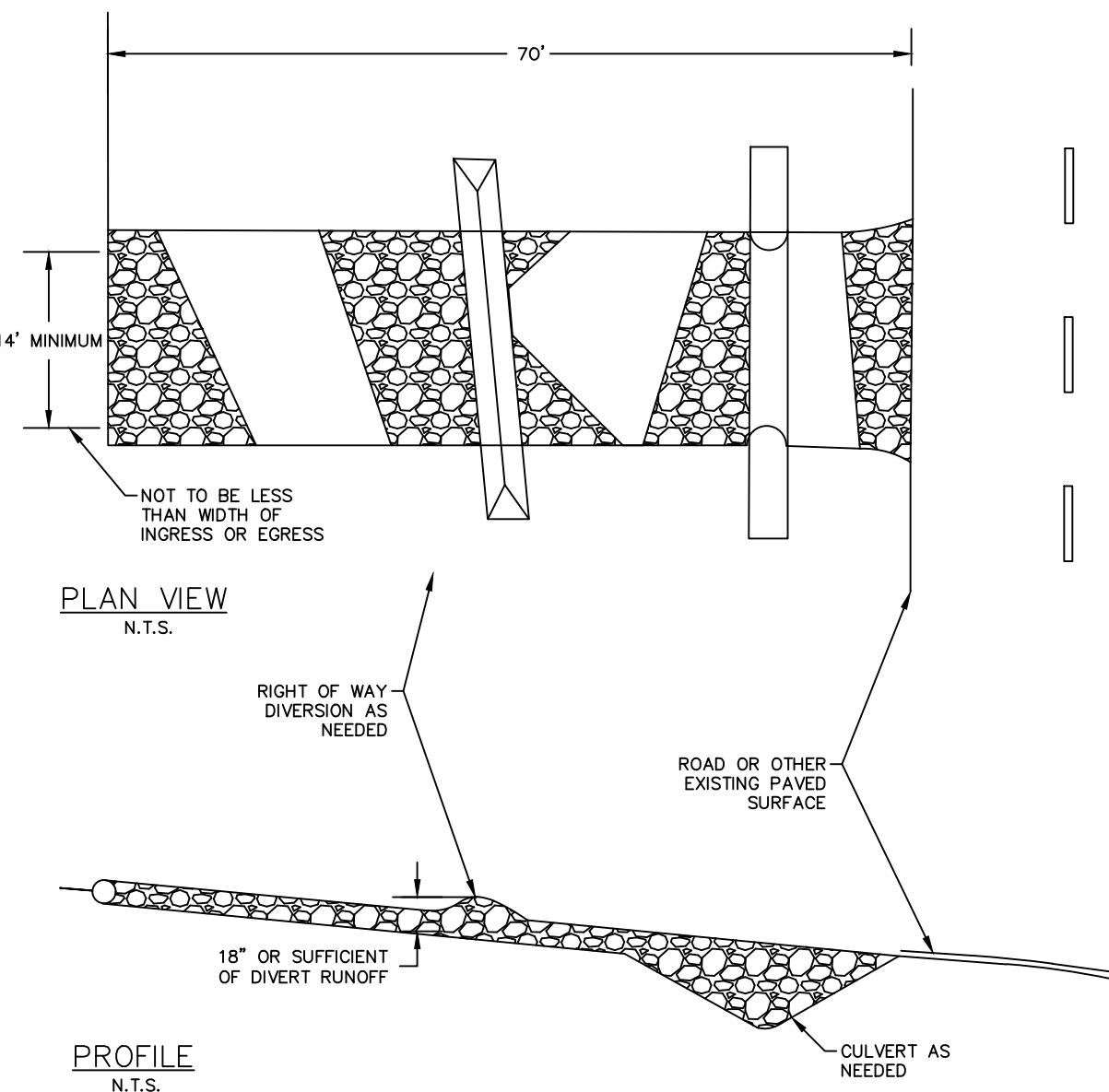
- INSTALLATION:
- ODOT #2 (1.2"-2.5") STONE OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT A MINIMUM 6-INCH THICKNESS FOR LIGHT DUTY USE OR AT LEAST 10-INCH THICKNESS FOR HEAVY-DUTY USE.
 - THE ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS (30 FT MINIMUM ON A SINGLE RESIDENTIAL 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 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

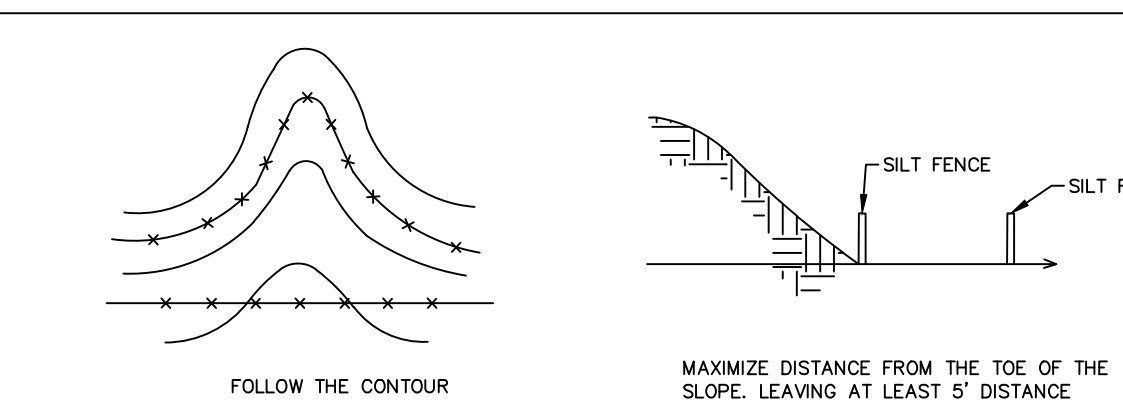
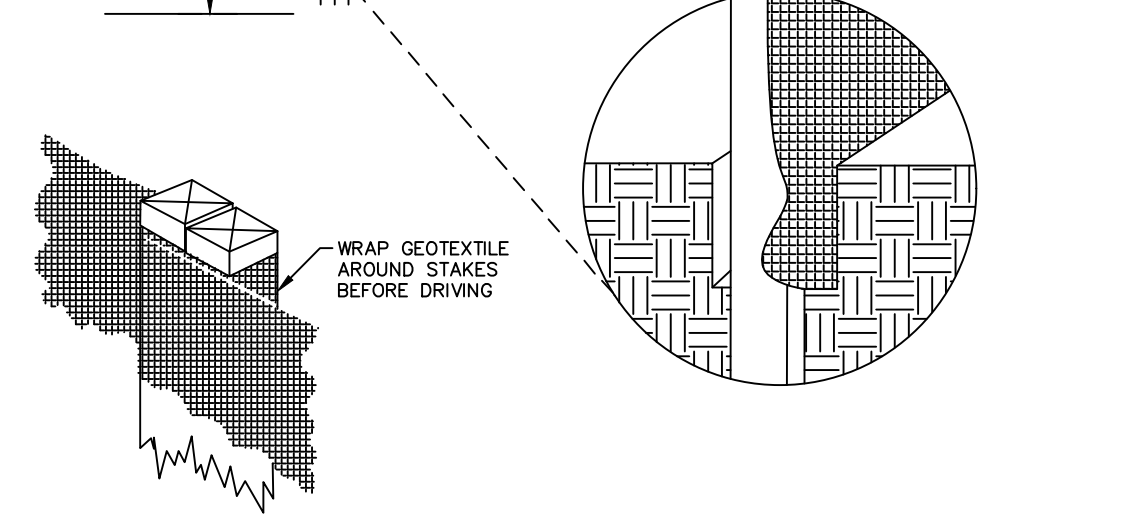
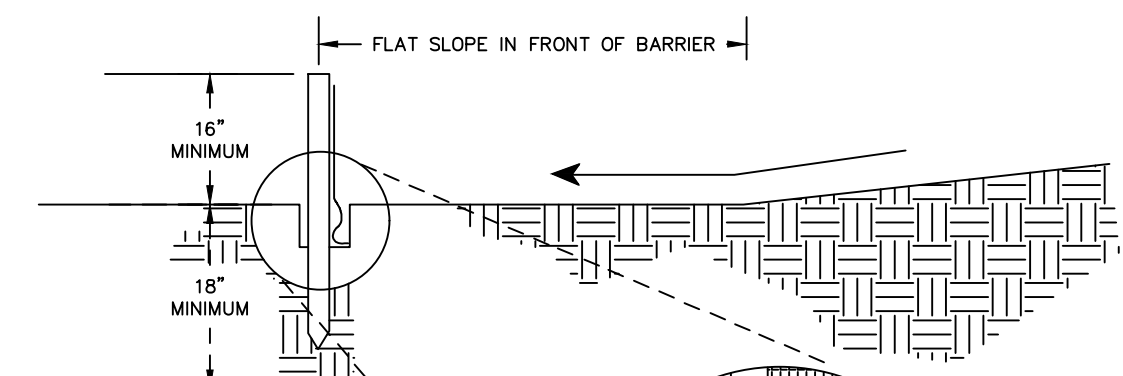
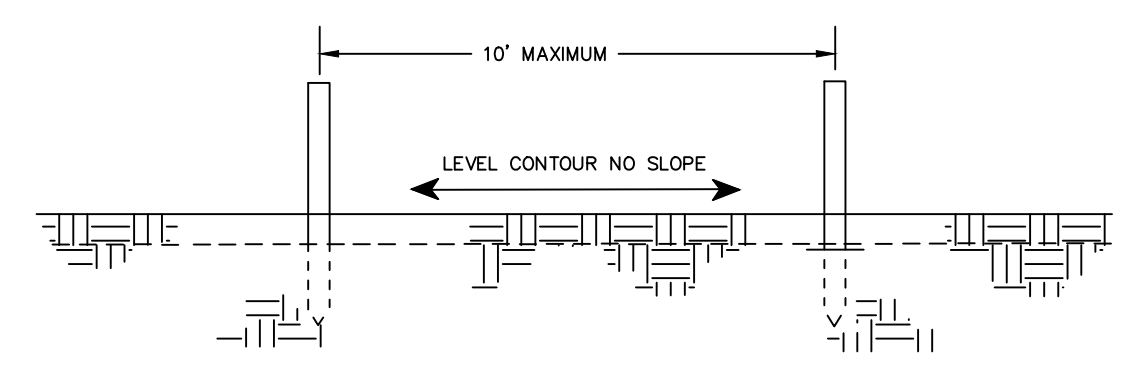
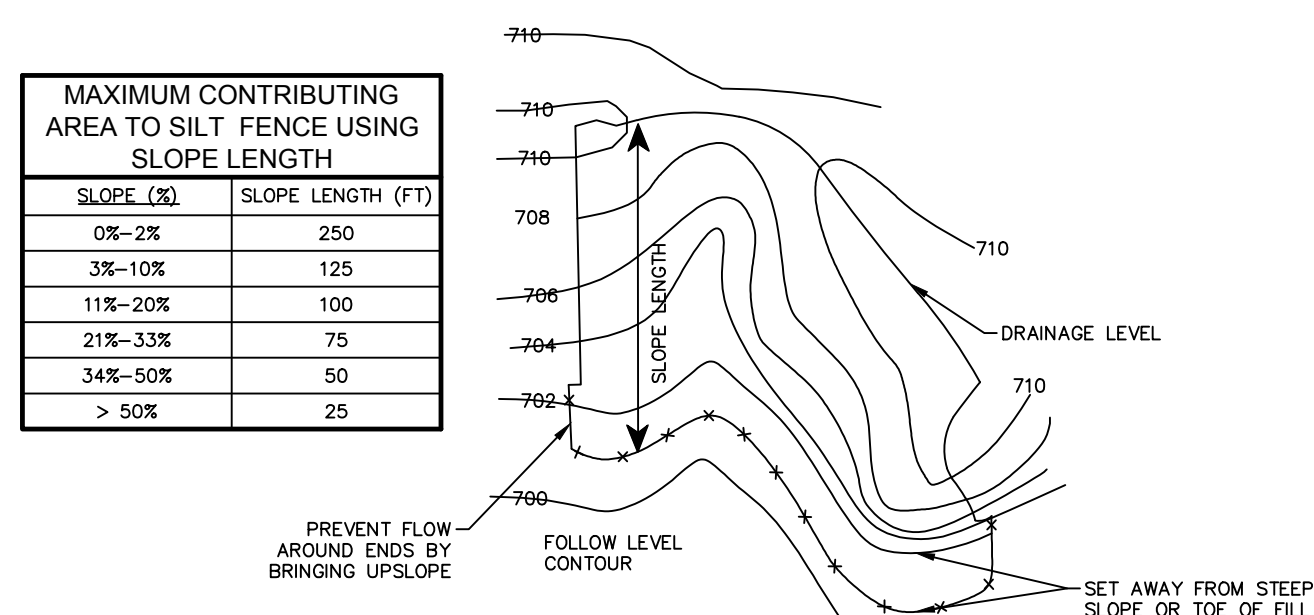
- INSTALLATION:
- CONSTRUCT PRIOR TO UPSLOPE LAND DISTURBANCE.
 - PLACE CONTINUOUS LENGTHS OF SILT FENCE ALONG A CONSISTENT CONTOUR SO AS TO PREVENT THE CONCENTRATION OF RUNOFF AT LOW POINTS IN THE FENCE.
 - TO PREVENT FLOW AROUND ENDS, EXTEND EACH END OF A CONTINUOUS LENGTH OF SILT FENCE UPSLOPE (90 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 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

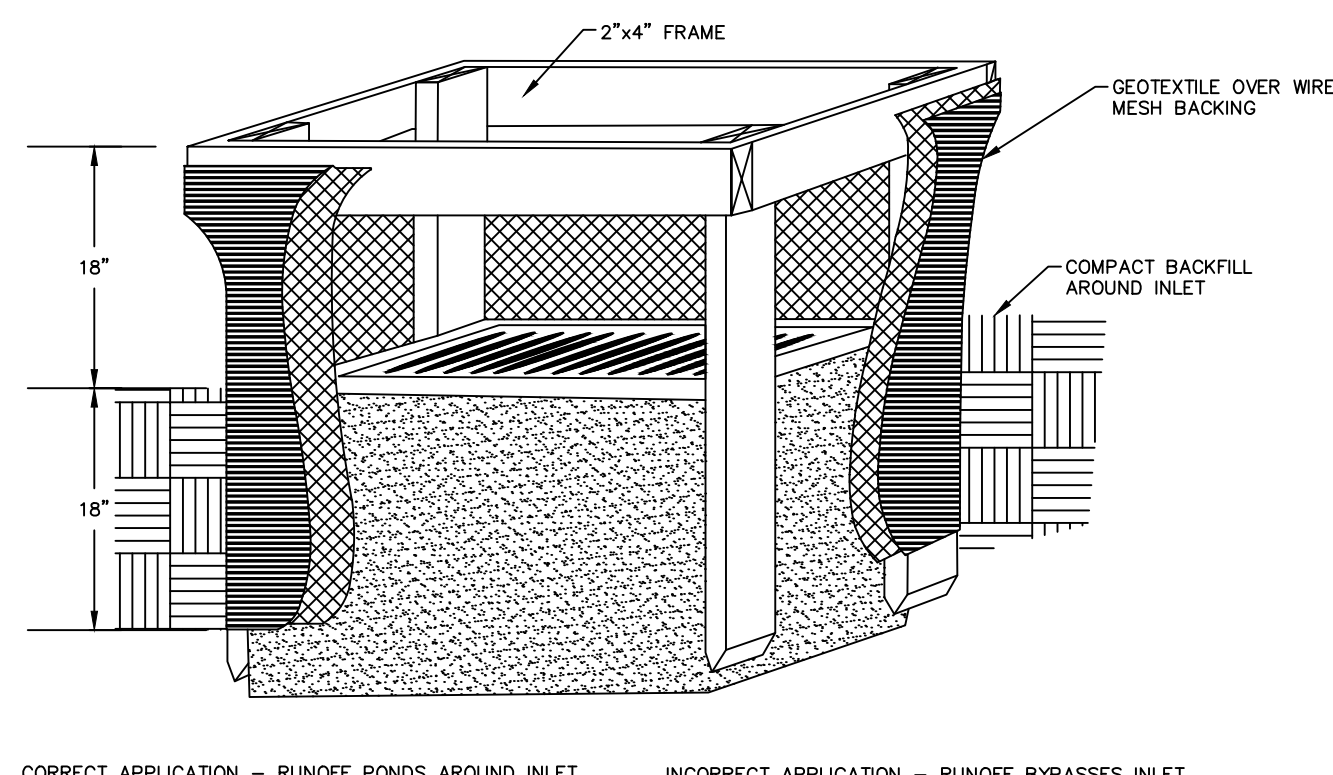


YARD DRAIN INLET PROTECTION

- 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 OFF-SITE.
 - RE-GRADE AREA WHERE SEDIMENT HAS ACCUMULATED AS NECESSARY AND NECESSARY AND ESTABLISH VEGETATION IN ANY RESULTING DISTURBED AREAS.



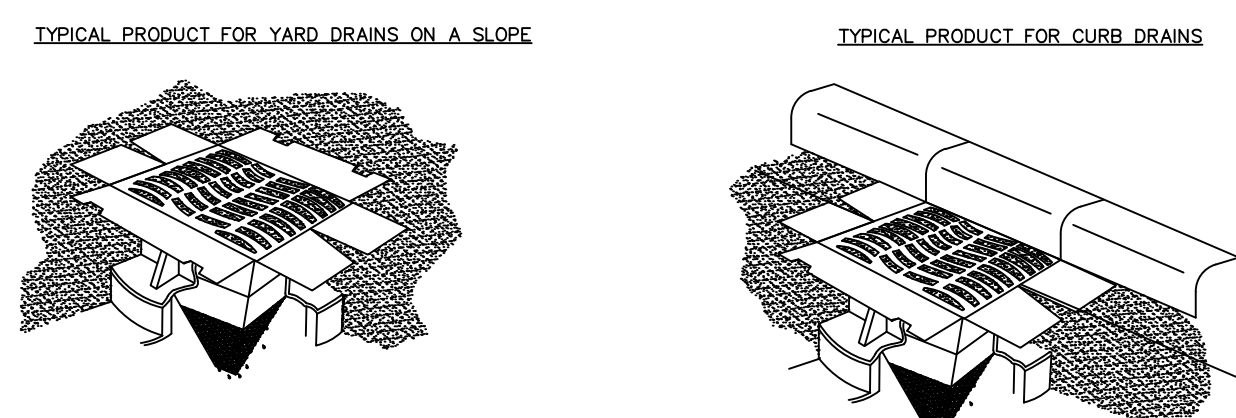
INLET PROTECTION FOR CURB DRAINS AND YARD DRAINS SITUATED ON A SLOPE

- 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.

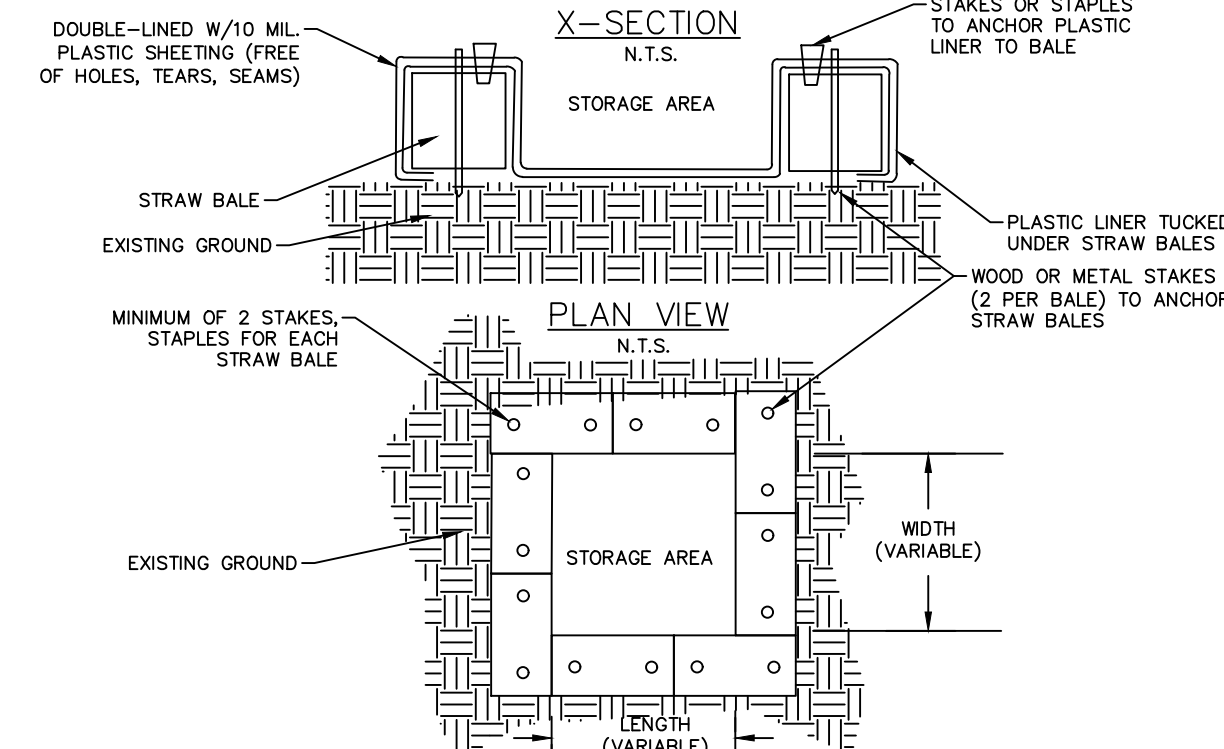
SIZING OF CONCRETE WASHOUT PITS

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

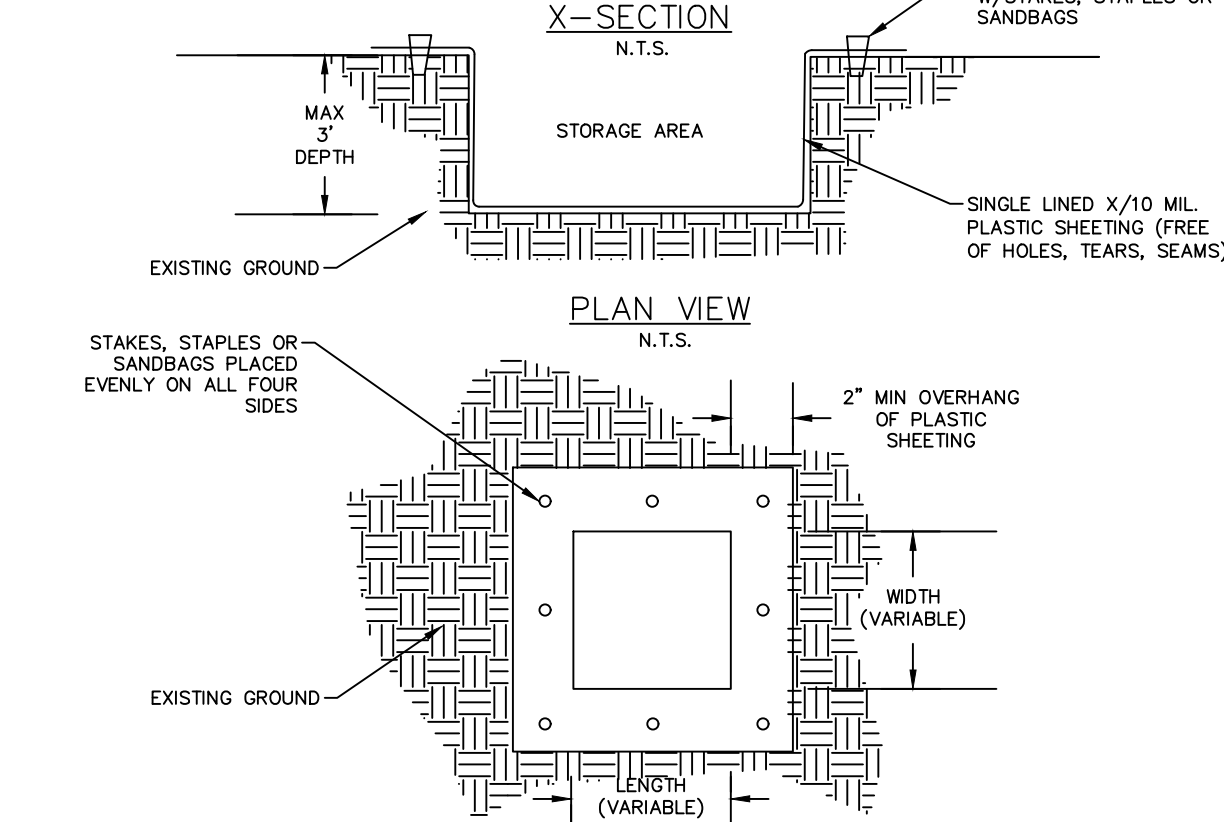
ABOVE-GRADE (2-FT DEPTH)		
# OF CONCRETE TRUCKS EXPECTED TO BE WASHED OUT ON SITE	WIDTH (FT)	LENGTH (FT)
2	3	3
3-4	4	4
5-6	5	5
7-8	6	6
9-11	7	7
12-15	8	8

*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

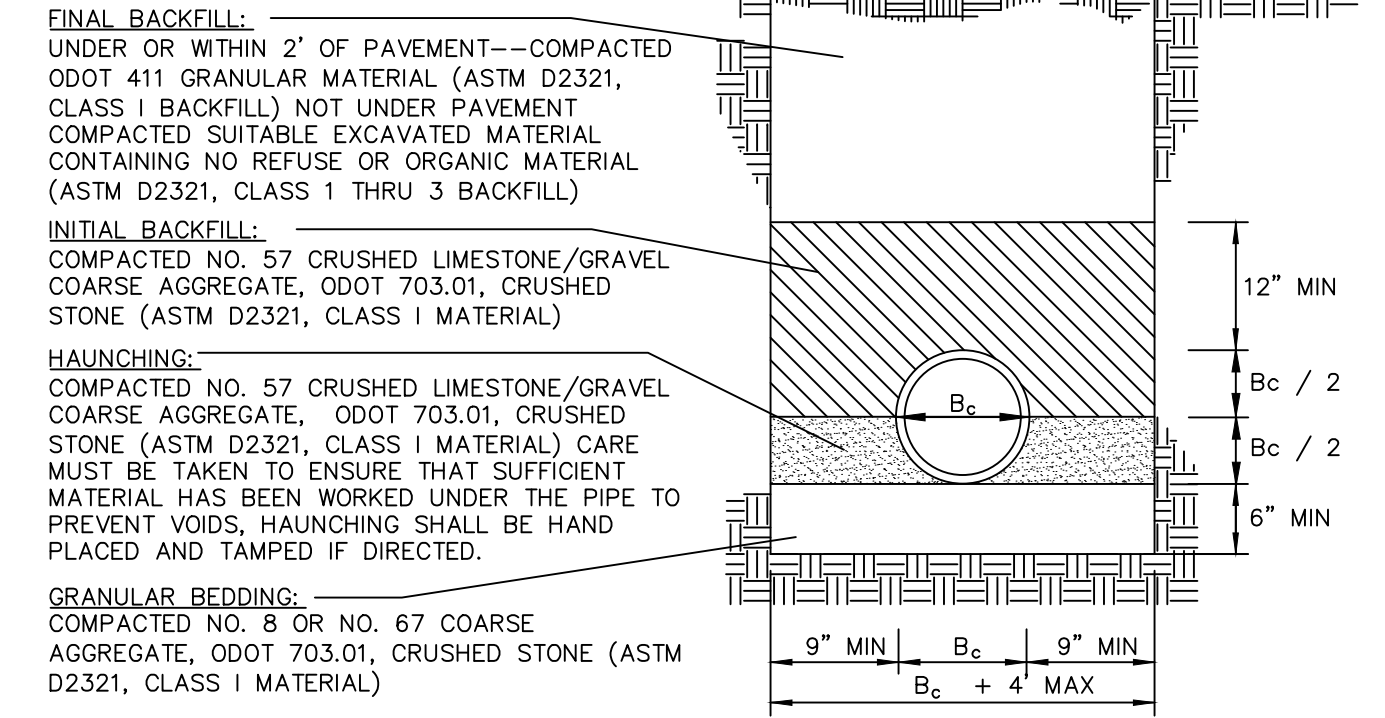


BELOW-GRADE CONCRETE WASHOUT PIT

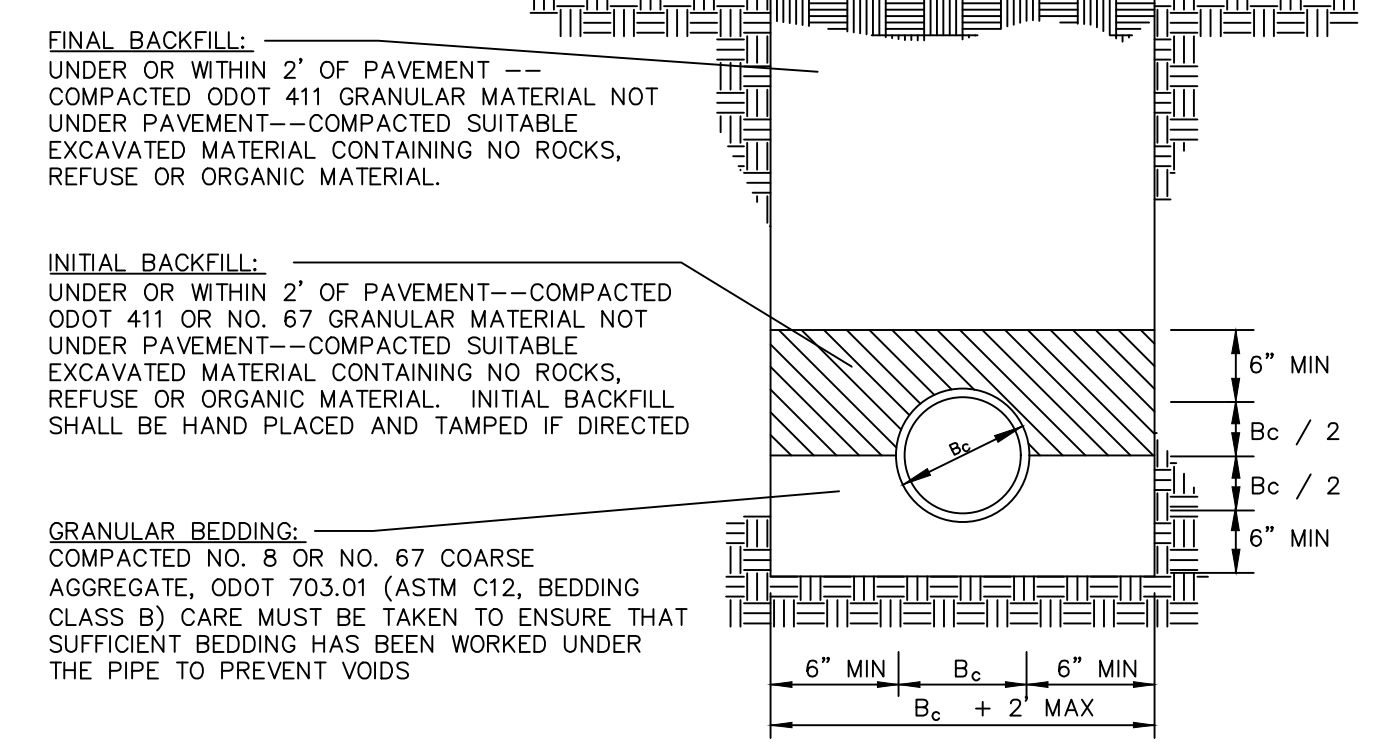


**PVC OR PE PLASTIC PIPE
 TYPICAL TRENCH SECTION**

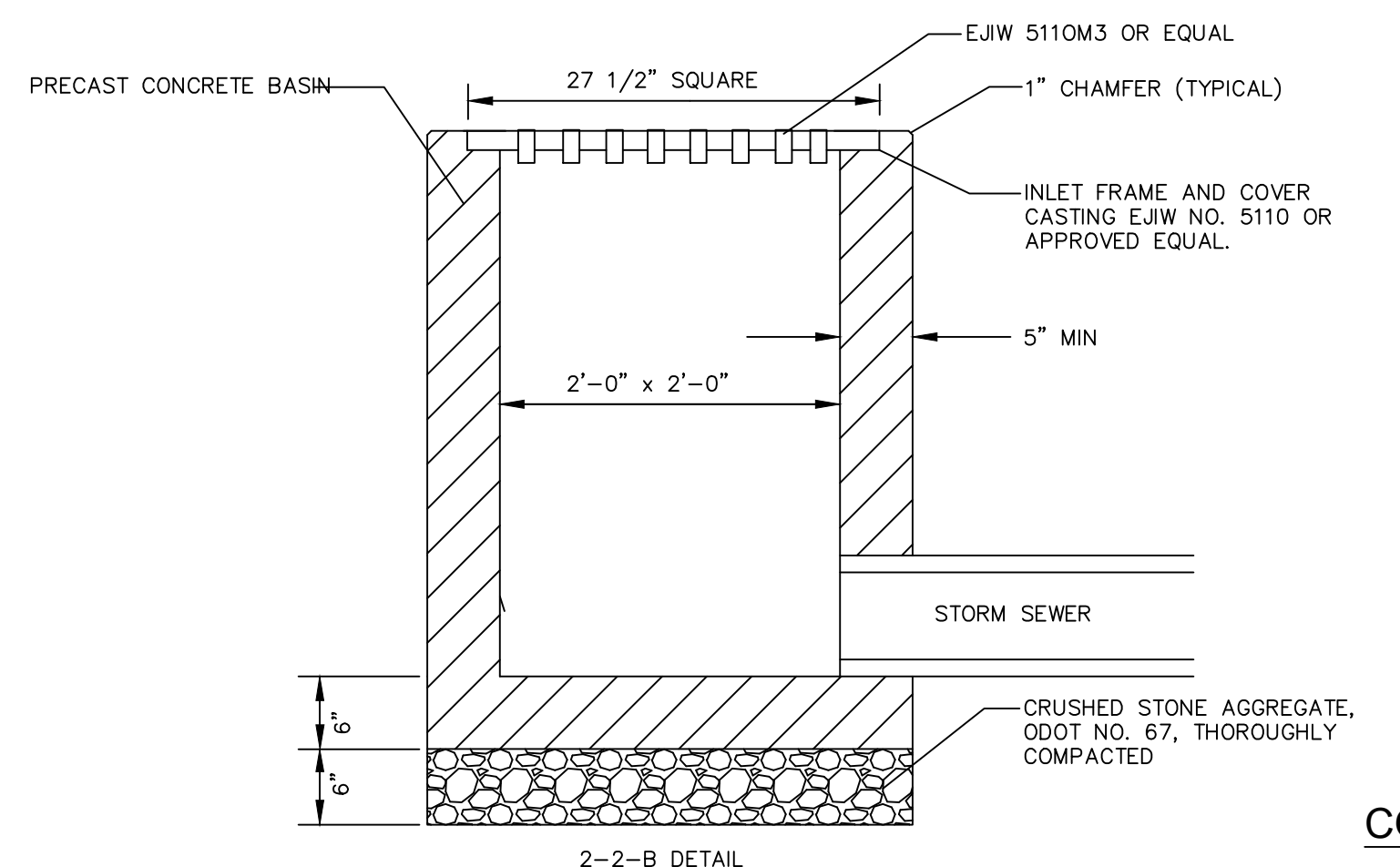
BEDDING AND BACKFILL



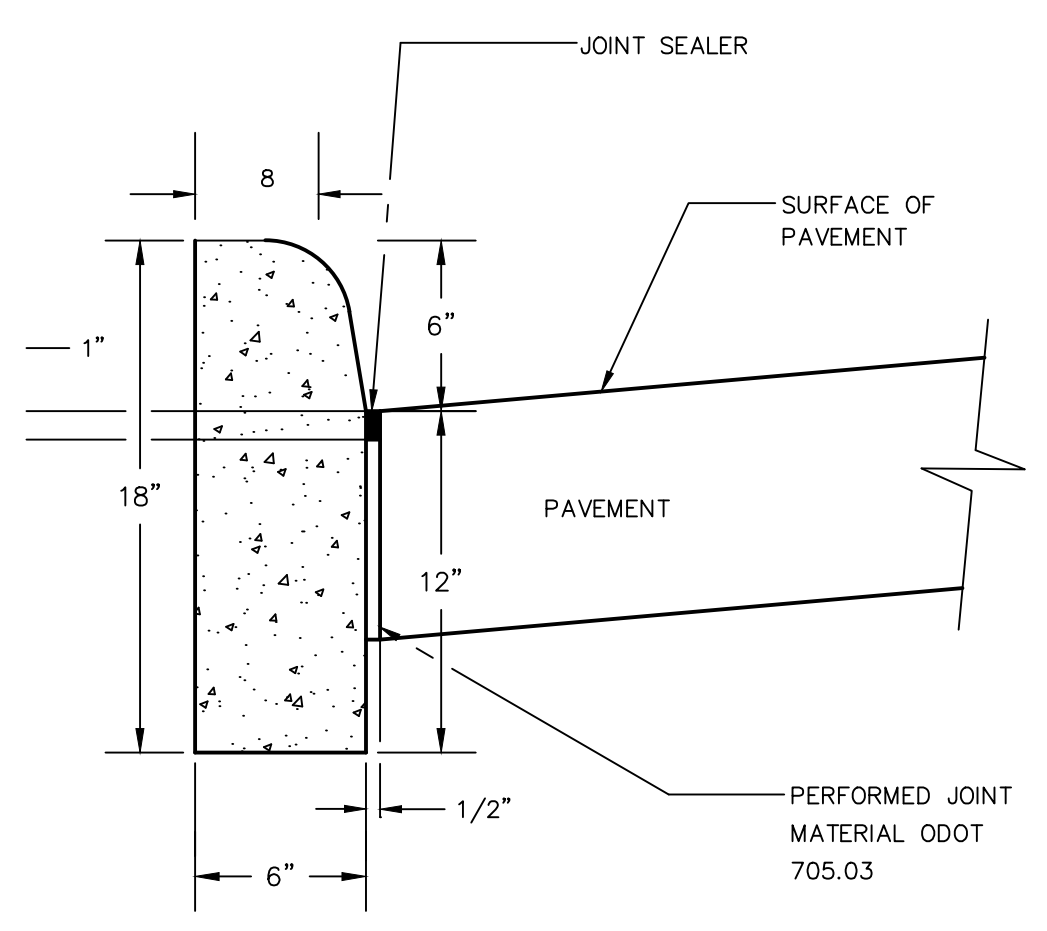
**CONCRETE PIPE
 TYPICAL TRENCH SECTION
 BEDDING AND BACKFILLING**



SANITARY/STORM SEWER TRENCH DETAILS
 N.T.S.

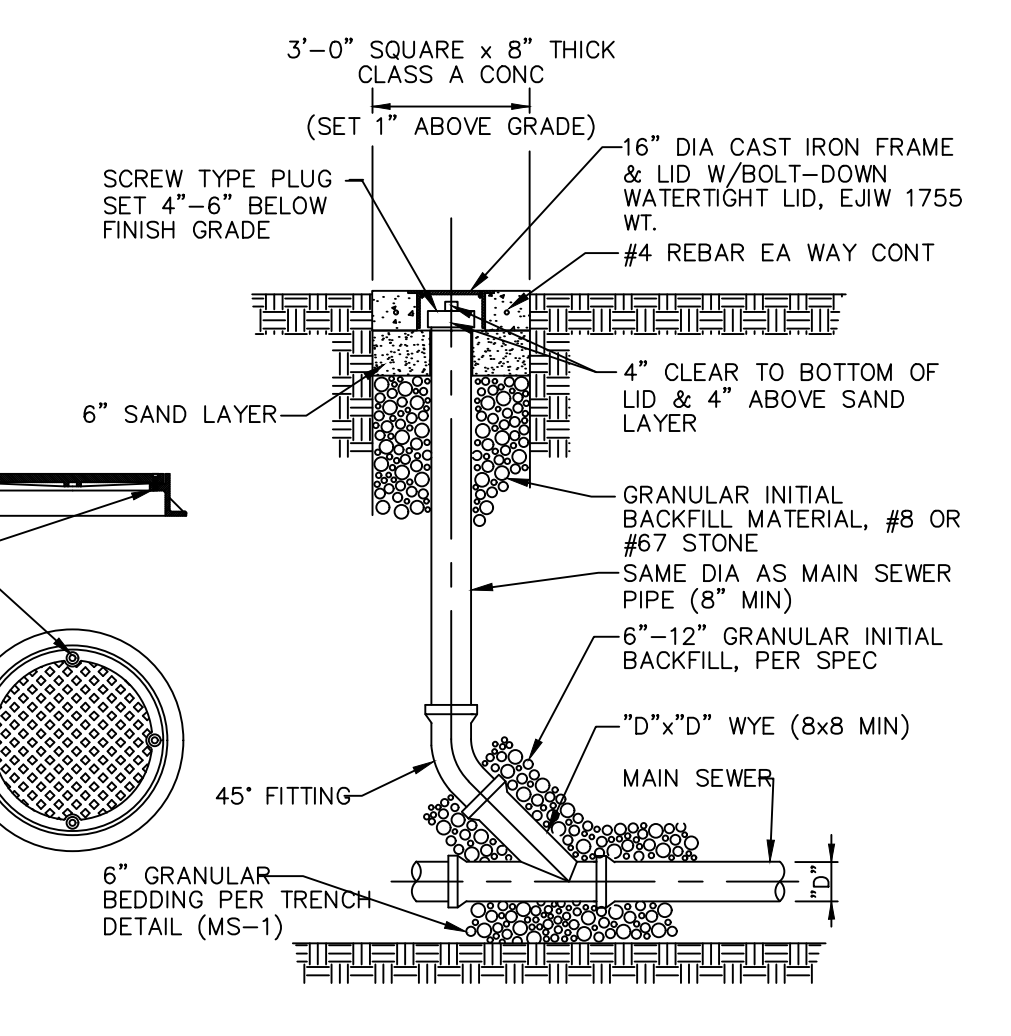
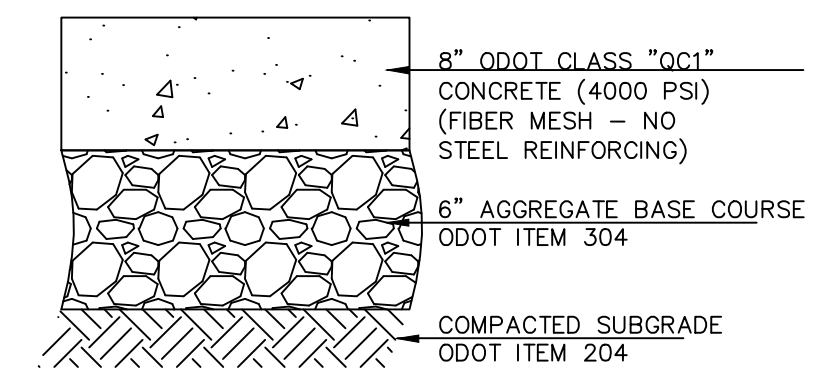


YARD BASIN



ODOT TYPE 6 CURB DETAIL

CONCRETE APRON DETAIL - RIGHT OF WAY
 N.T.S.



CLEAN-OUT DETAIL
 N.T.S.

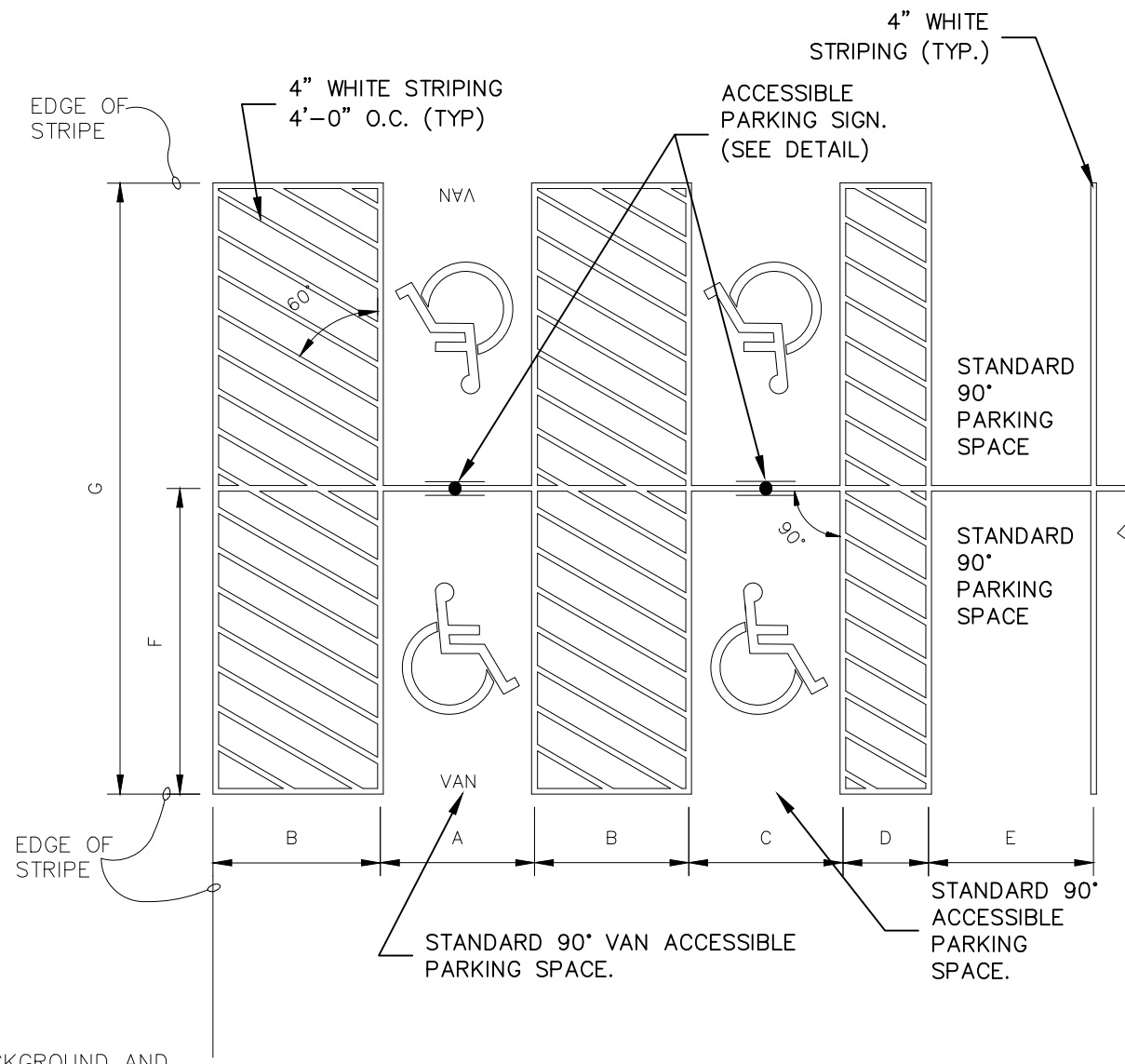
ACCESSIBLE PARKING SYMBOL
 N.T.S.

- 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

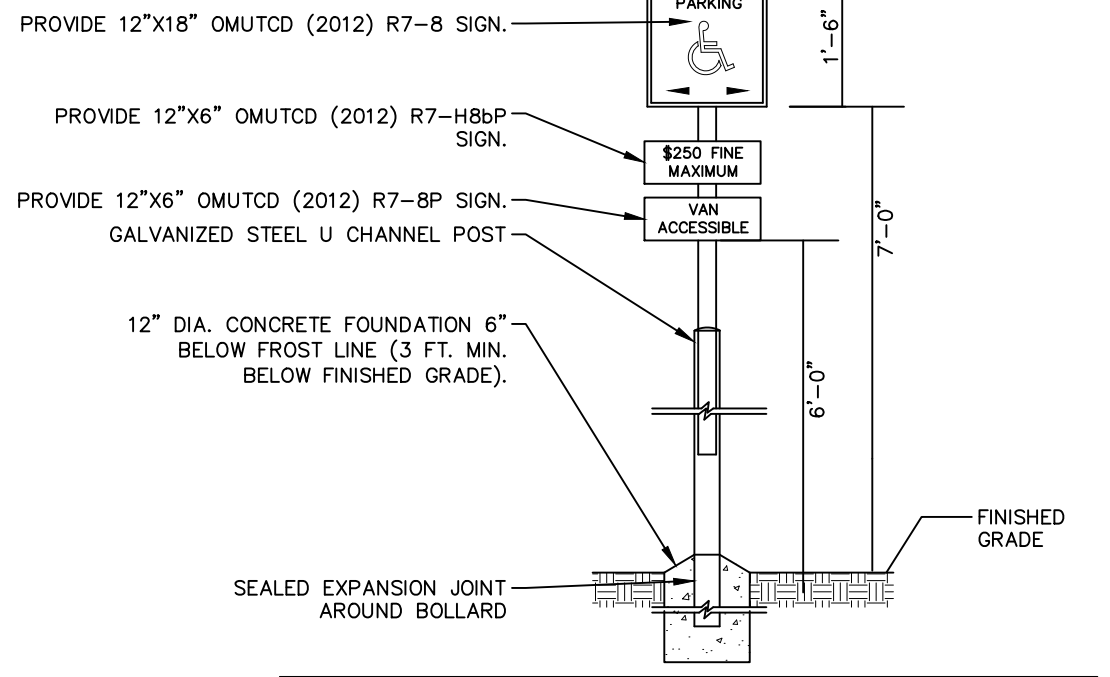
DIMENSION CHART

	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.

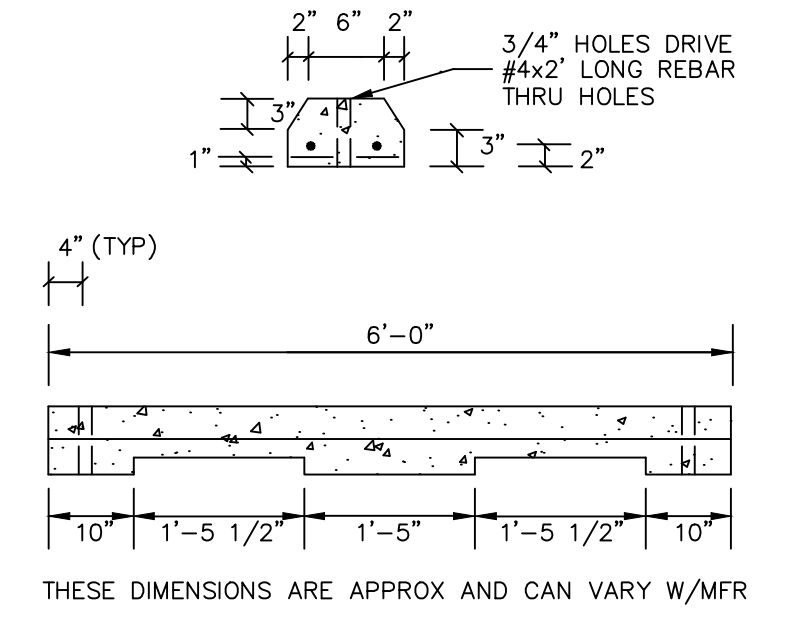


NOTE:
 LOCATE SIGN @ HEAD OF EACH HANDICAP STALL. SIGN ON EACH SIDE OF PIPE WHERE APPLICABLE.

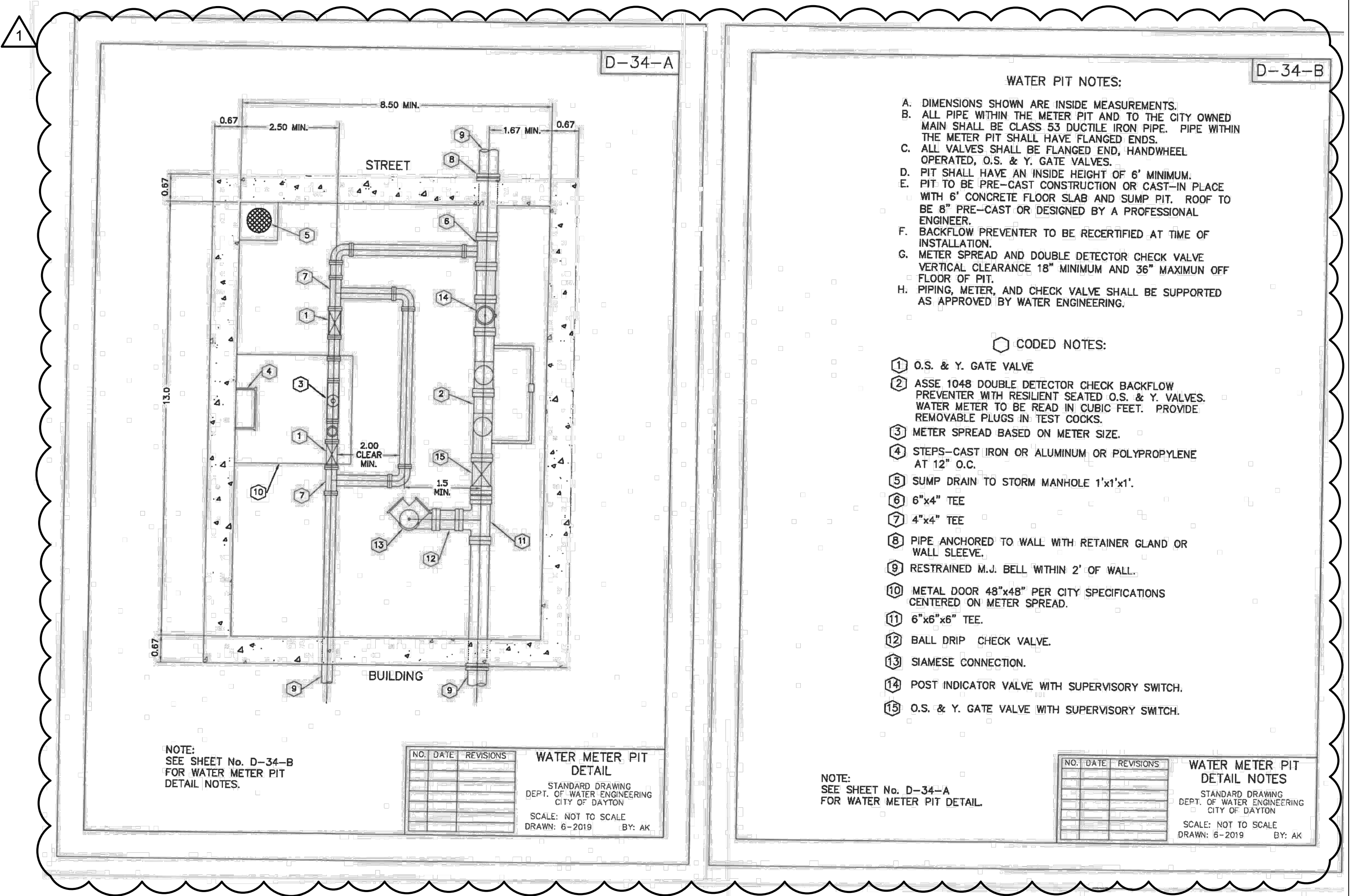


- NOTES:
1. SIGNS ARE TO CONFORM WITH SPECIFICATIONS FROM THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (2012).
 2. SIGN POST SHALL BE U CHANNEL CONSTRUCTION.
 3. SIGNS SHALL COMPLY TO ALL ADA CODES.
 4. IF SIGN IS MOUNTED TO BUILDING, THE BOTTOM OF THE VAN ACCESSIBLE SIGN IS TO BE 6'-0" FROM THE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

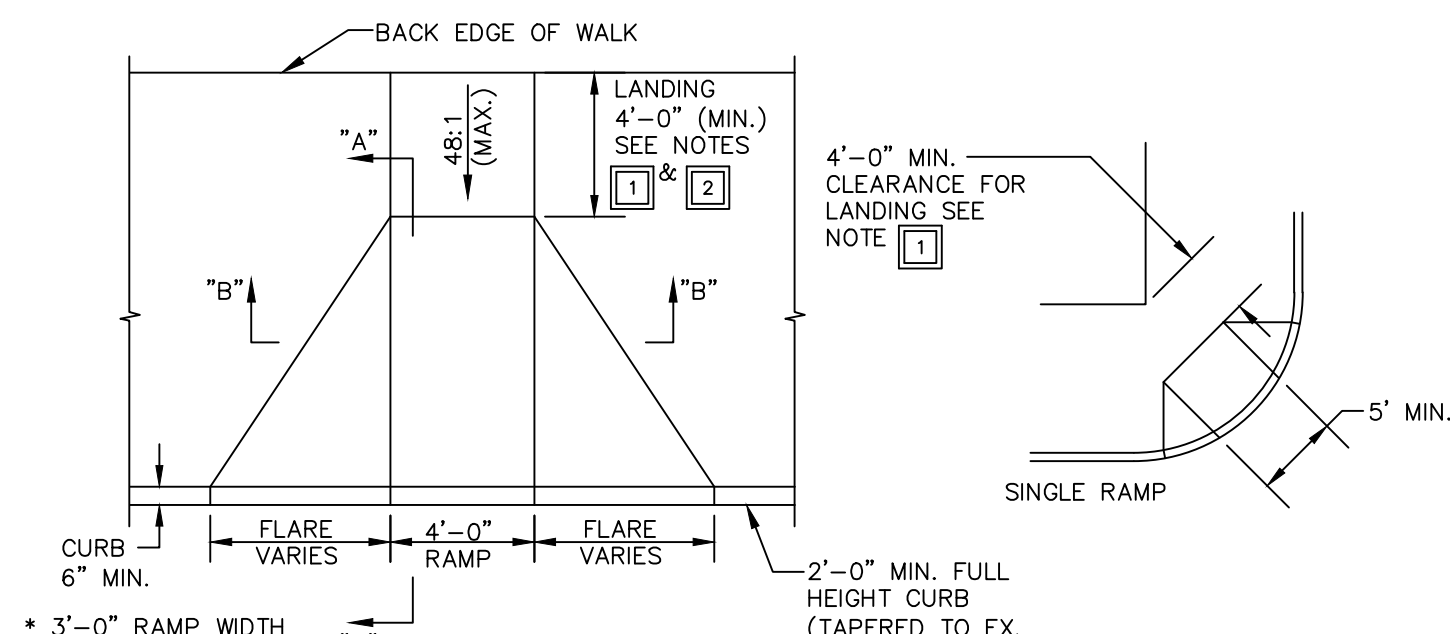
HANDICAPPED PARKING SIGN
 N.T.S.



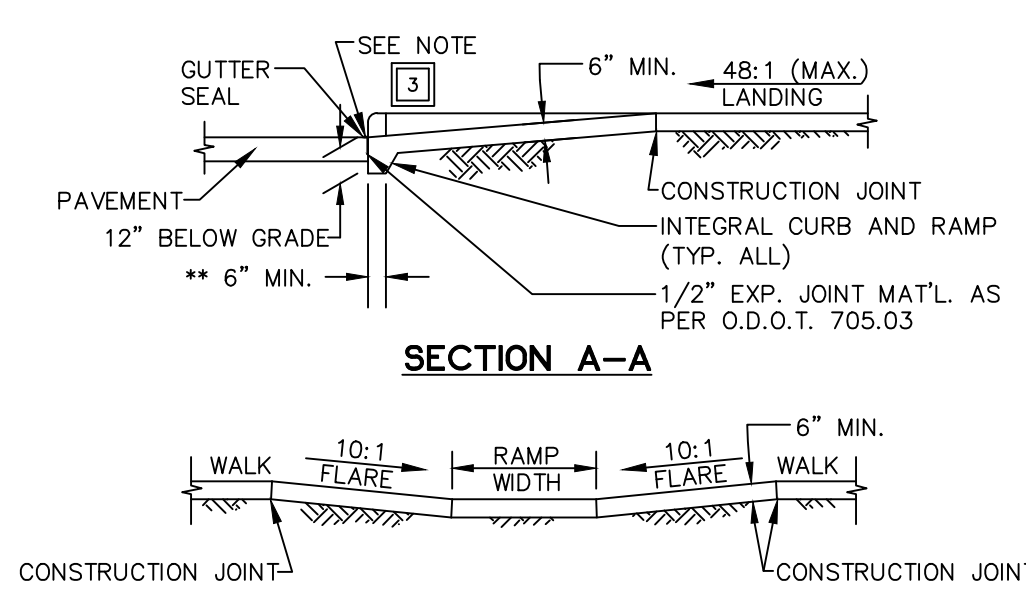
BUMPER GUARD DETAIL
 N.T.S.



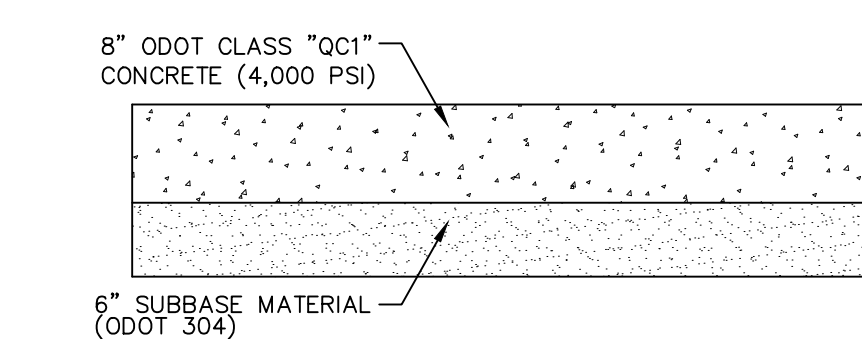
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- NOTES:**
- MAY BE REDUCED TO 3'-0" IN EXISTING SIDEWALK IN THE LANDING IS UNCONSTRAINED ALONG THE BACK EDGE.
 - WHERE THE LANDING IS LESS THAN 4'-0", THE RAMP FLARE SHALL BE INCREASED TO 12:1.
 - THE BOTTOM EDGE OF THE CURB RAMP SHALL BE FLUSH WITH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

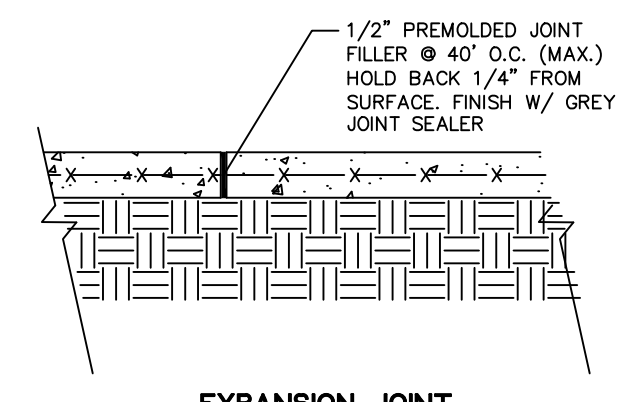


**SECTION A-A
HANDICAP CURB / RAMP DETAIL**
N.T.S.

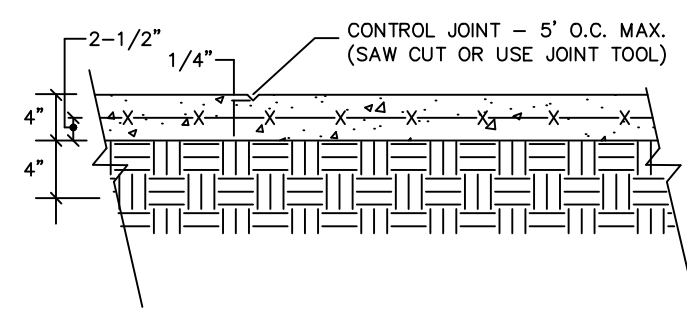


**CONCRETE PAD/APRON
DETAIL**
N.T.S.

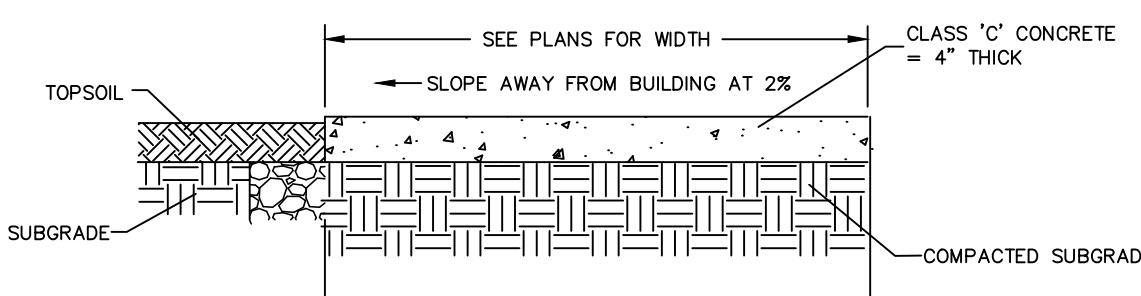
- NOTES:**
- 1/2" EXPANSION JOINT - 40' O.C. MAX. AND AT ALL CURBS, WALKS, WALLS AND OTHER FIXED OBJECTS.
 - CONTROL JOINT - 5' O.C. MAX.
 - CROSS SLOPE AT 1/4" PER FOOT MIN. TO DRAIN. SLOPE AWAY FROM BUILDINGS AND TOWARDS CURB LINES.
 - MEDIUM BROOM FINISH.
 - WHERE TOPSOIL IS INSTALLED ADJACENT TO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



EXPANSION JOINT

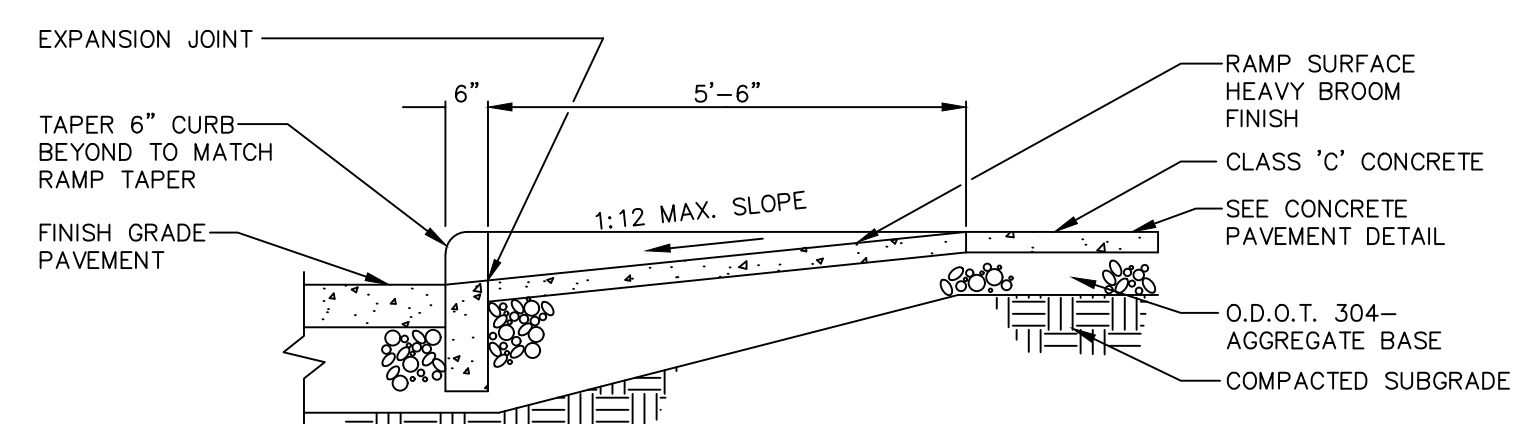


CONTROL JOINT

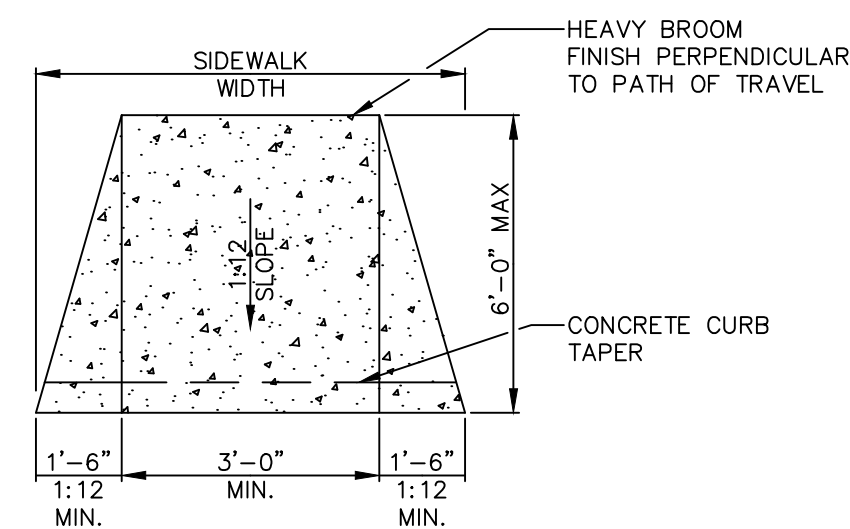


CONCRETE SIDEWALK CROSS SECTION

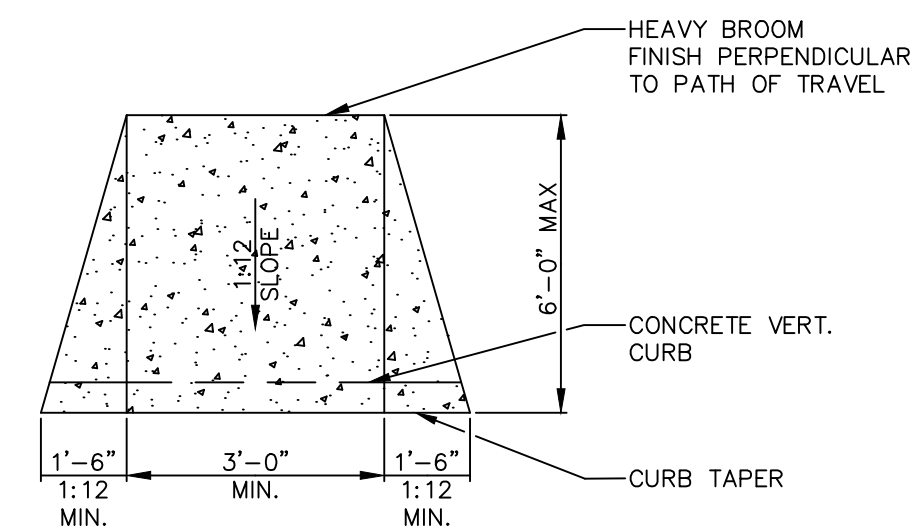
TYPICAL CONCRETE WALK DETAIL
N.T.S.



SECTION

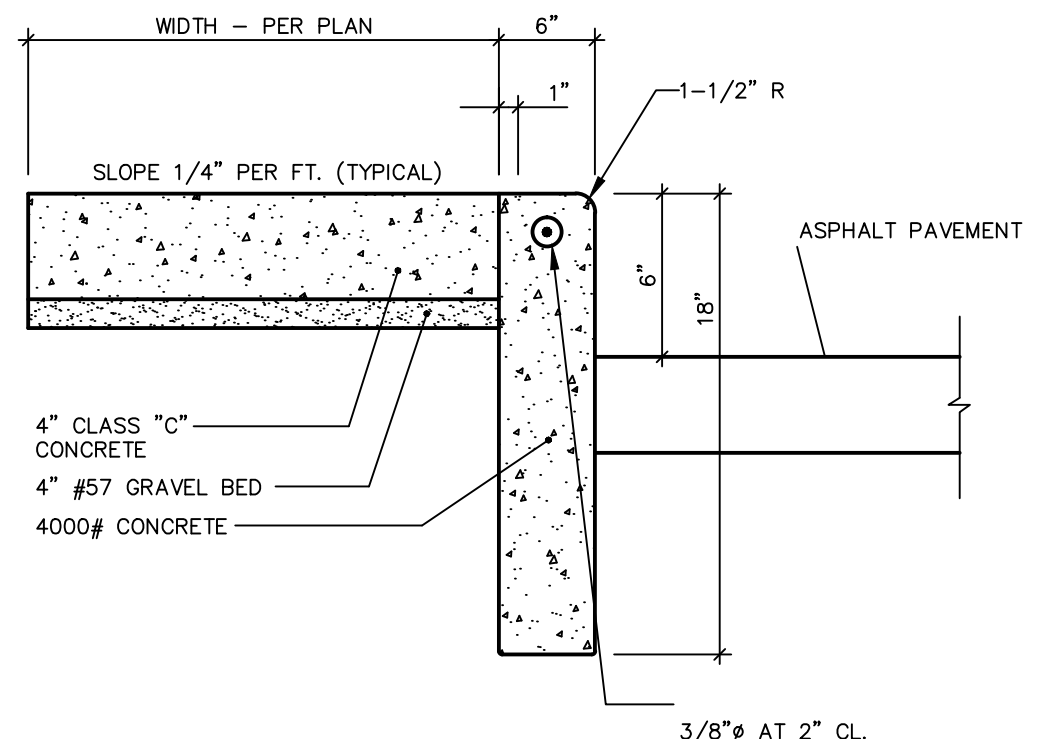


**PLAN VIEW
TYPE A HANDICAP RAMP**

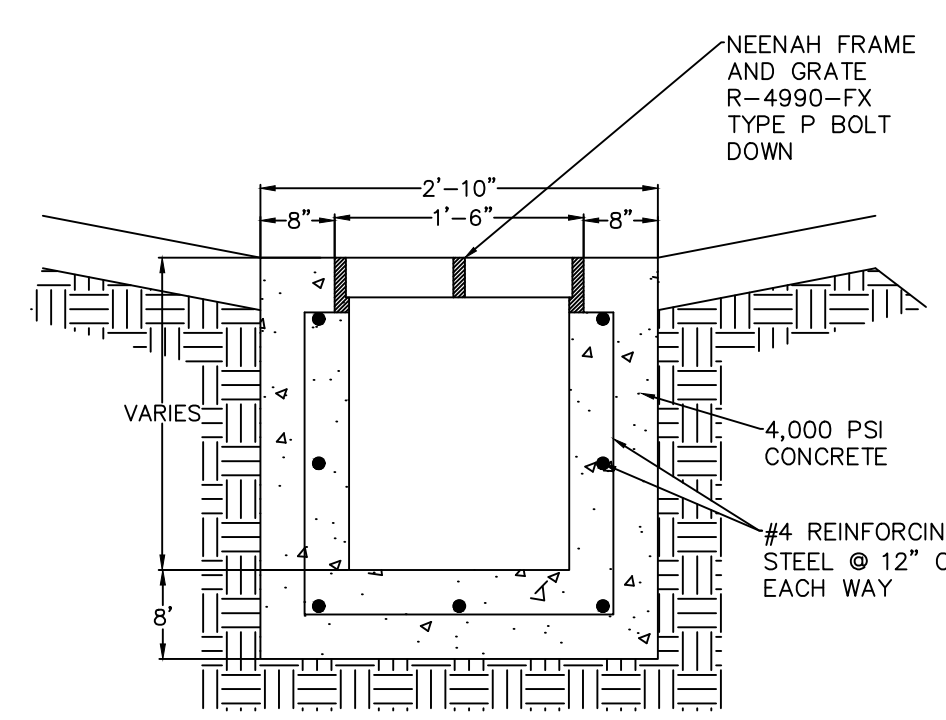


**PLAN VIEW
TYPE B HANDICAP RAMP**

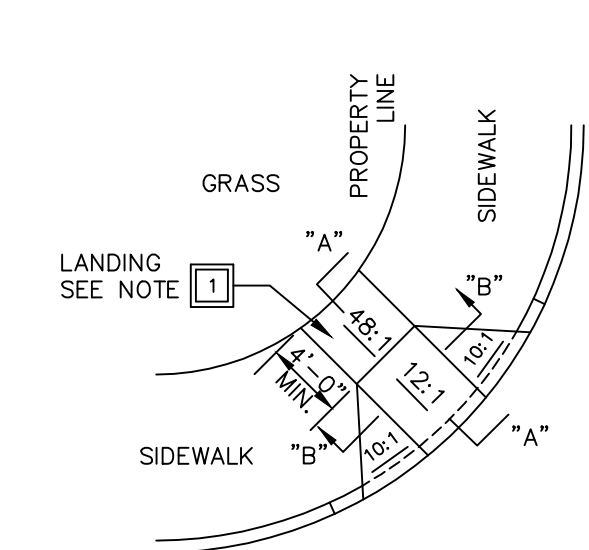
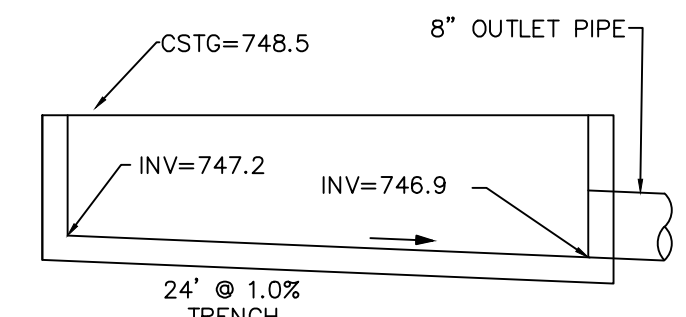
HANDICAP RAMP DETAIL
N.T.S.



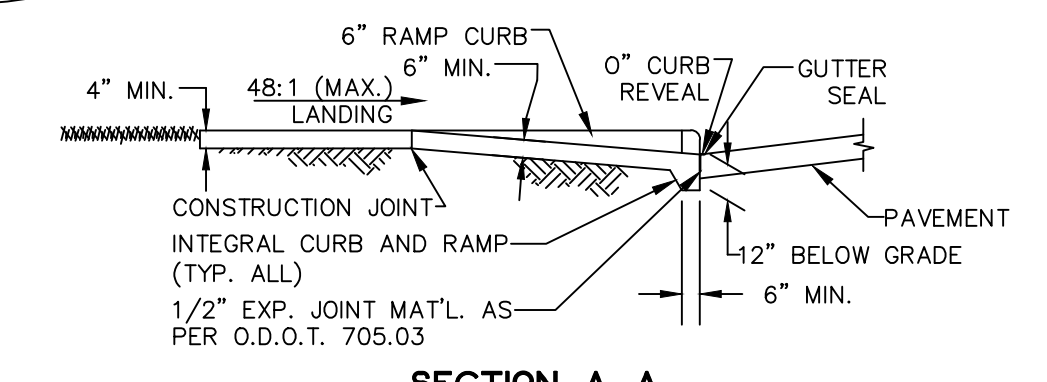
**INTEGRATED CONCRETE SIDEWALK
AND CONCRETE CURB**
N.T.S.



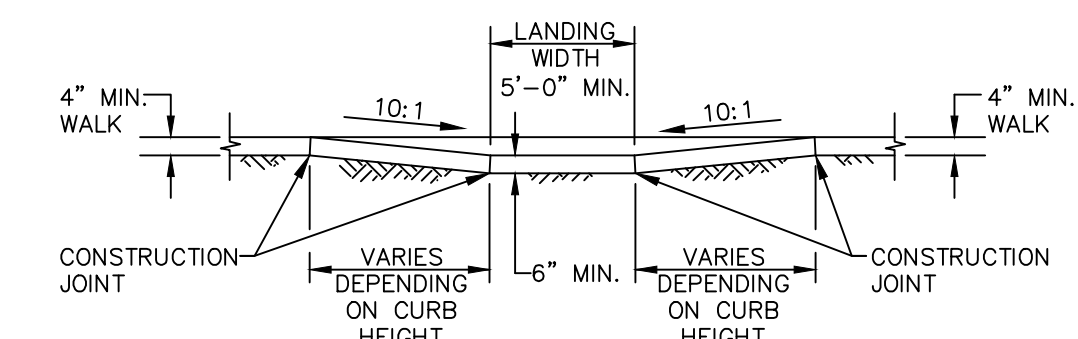
CONCRETE TRENCH DRAIN - 'A'
N.T.S.



- 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.



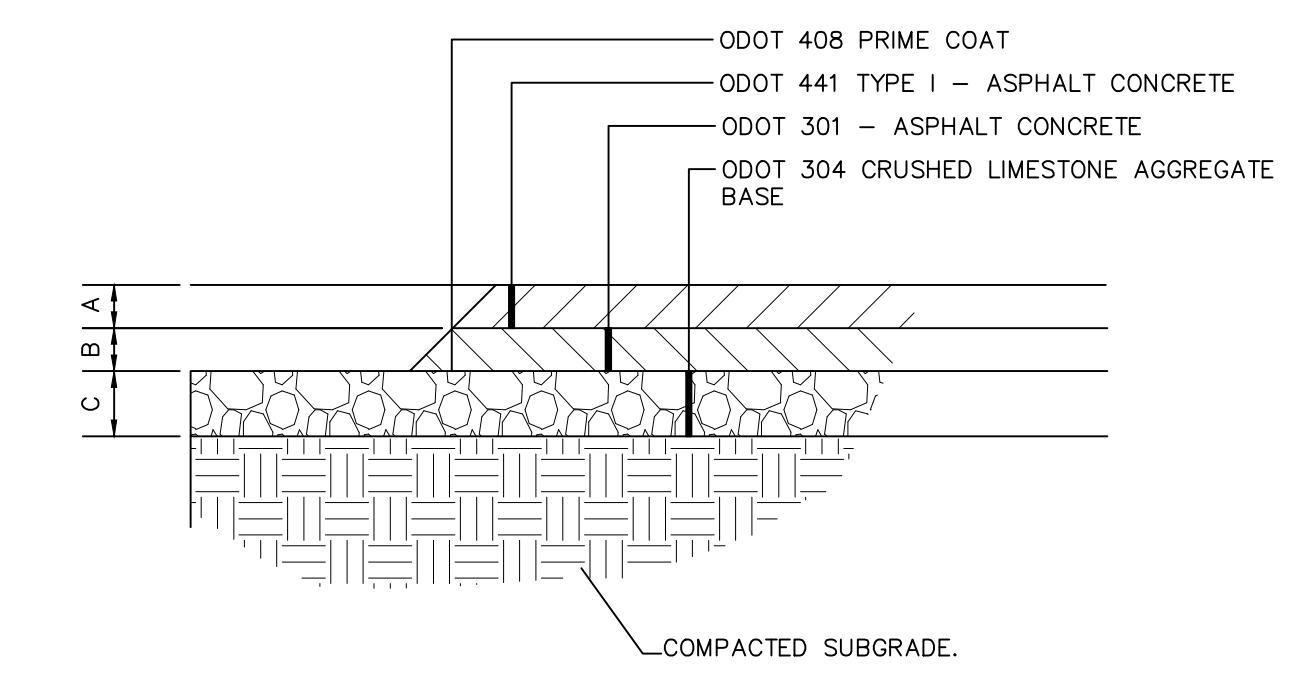
SECTION A-A



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.

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



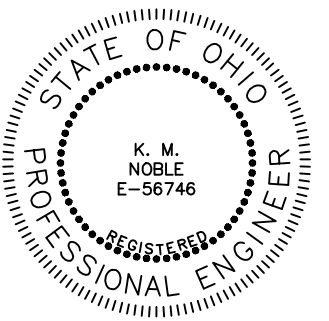
430 GRANT STREET
 AKRON, OH 44311
 PHONE: (330) 867-1093
 www.tcarchitects.com

**TURNING VISIONS
INTO REALITY**

03/31/2023
 DATE
 82A21
 PROJECT NUMBER

C601
DRAWING NUMBER

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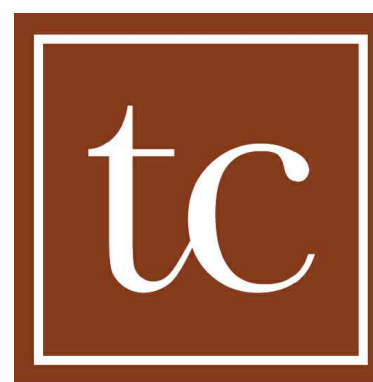


Ken M. Noble 3/31/23
SIGNATURE DATE

REVISIONS
△ BULLETIN 01 07/17/2023

SITE DETAILS

GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

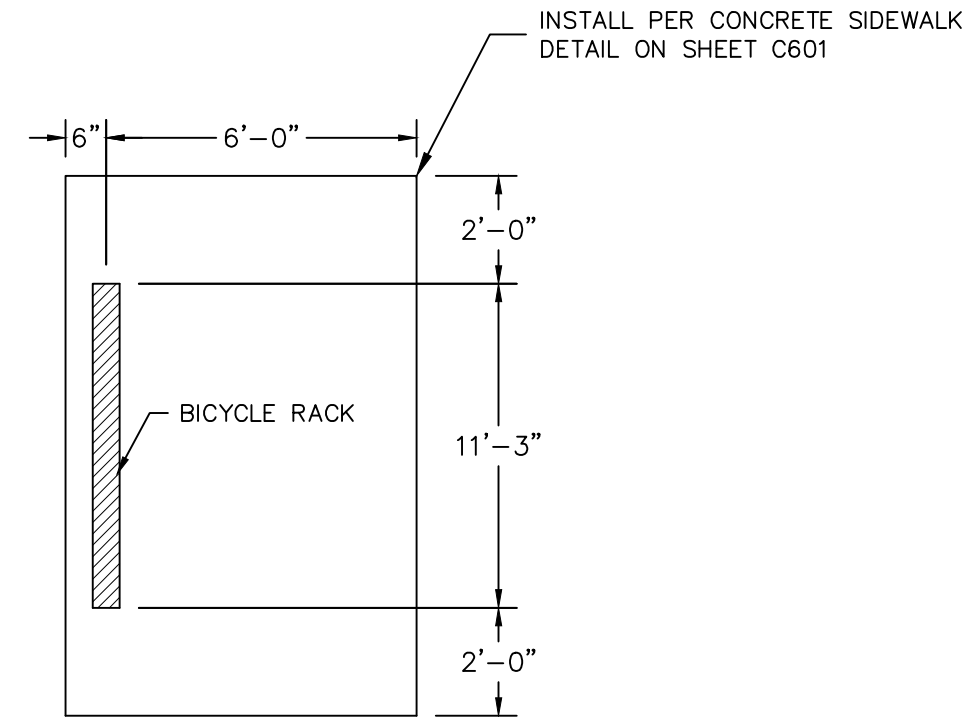
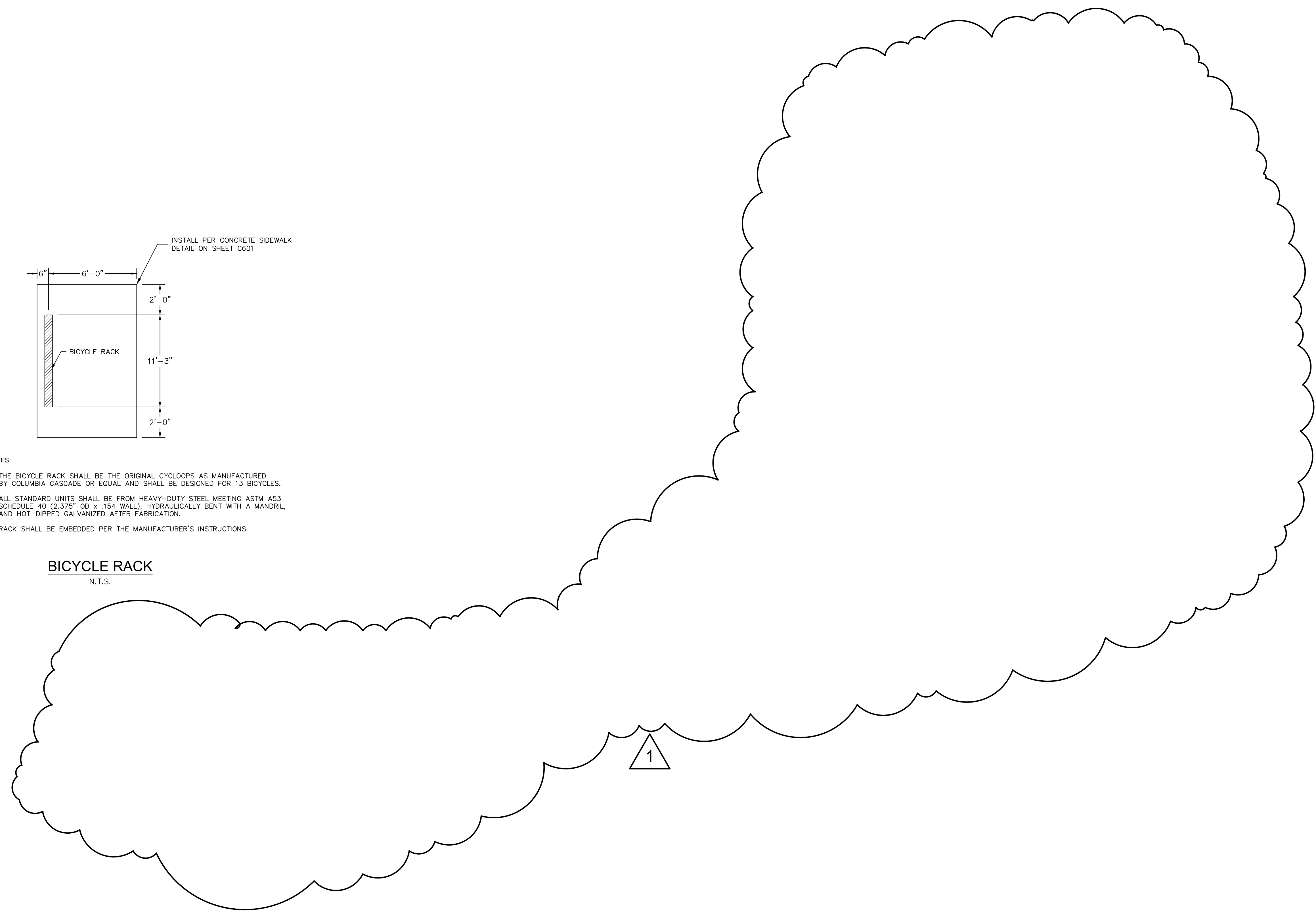
430 GRANT STREET
AKRON, OH 44311
PHONE: (330) 867-1093
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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

C602
DRAWING NUMBER



NOTES:

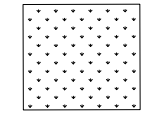



THE BICYCLE RACK SHALL BE THE ORIGINAL CYCLOOPS AS MANUFACTURED BY COLUMBIA CASCADE OR EQUAL AND SHALL BE DESIGNED FOR 13 BICYCLES.

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.

BICYCLE RACK
N.T.S.

LANDSCAPE SYMBOLS:

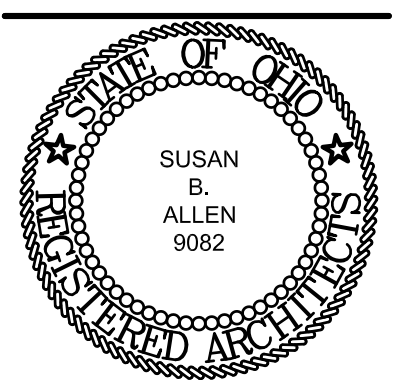
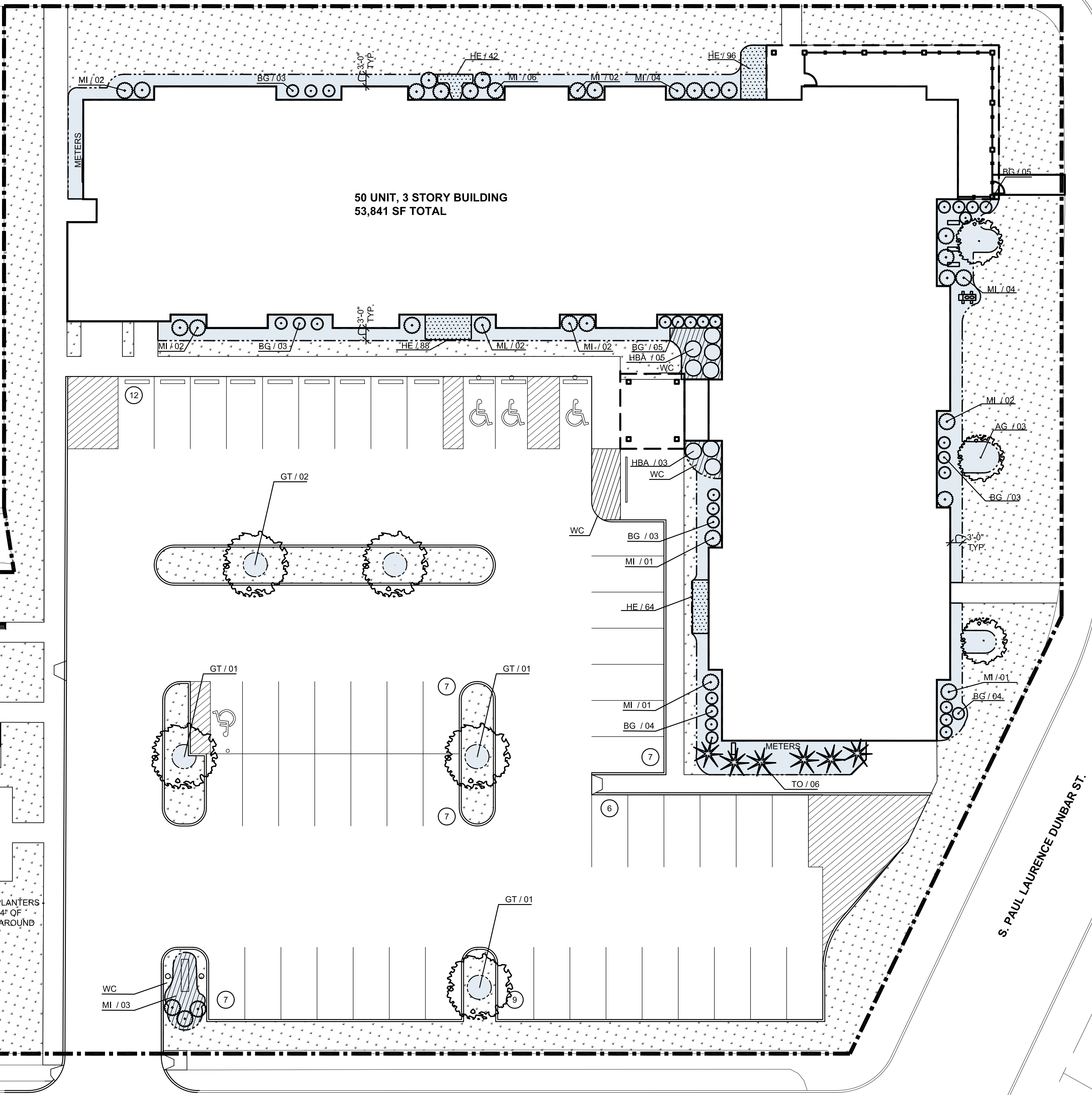
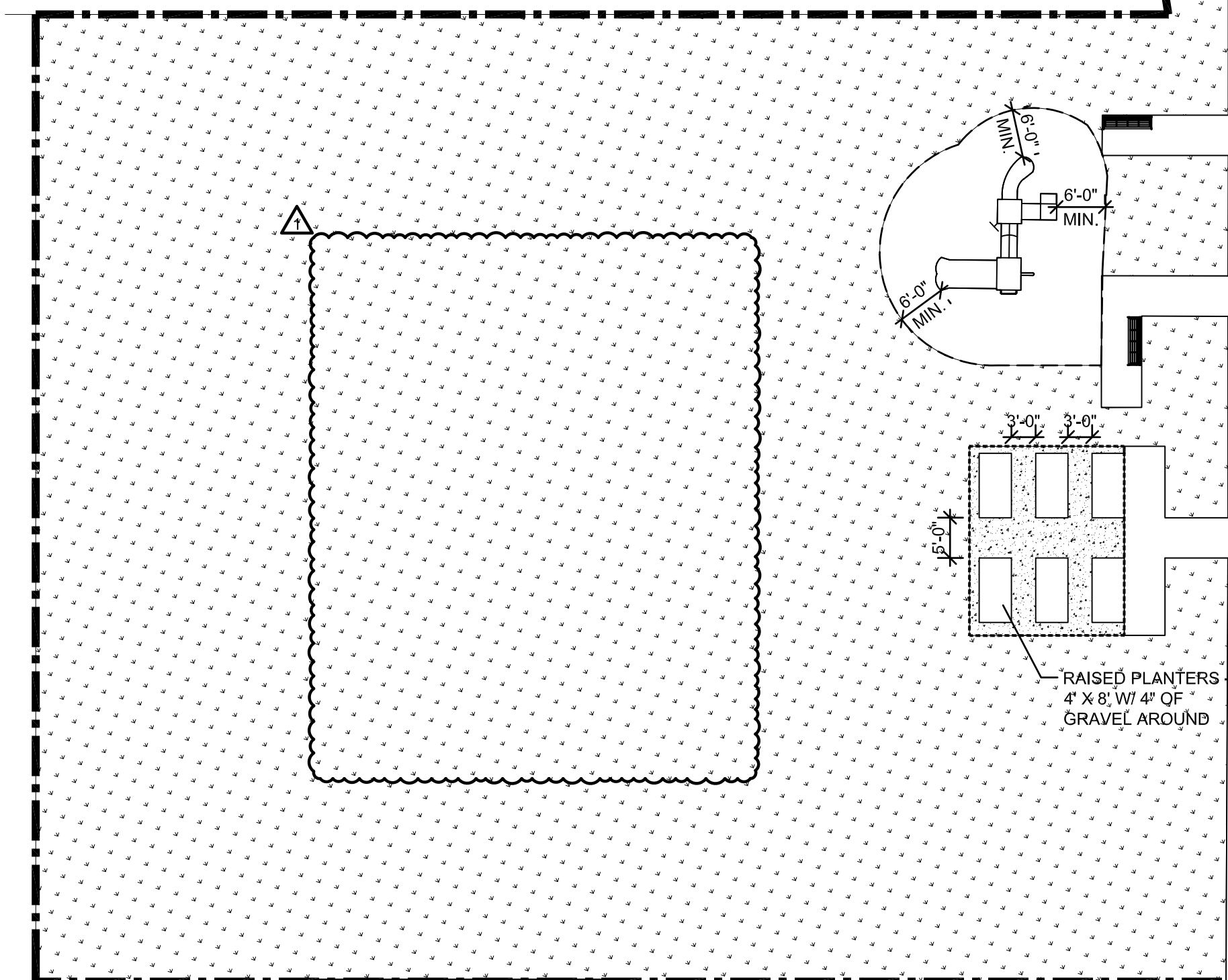
	INDICATES GRASS AREAS. SEE SPECIFICATIONS FOR SEED MIXTURE (ALL DISTURBED AREAS ARE TO BE SEEDED)		INDICATES DOUBLE SHREDED DIED HARDWOOD MULCH BOUNDARIES		PLAYGROUND FALL PROTECTION		INDICATES GRAVEL AREAS
---	---	---	---	---	----------------------------	--	------------------------

PLANT LIST:

KEY	BOTANICAL NAME	COMMON NAME	D/E	QTY.	SIZE	MIN. HT/W	REMARKS
DECIDUOUS TREES							
AG	AMELANCHIER GRAND "AUTUMN BRILLIANCE"	AUTUMN BRILLIANCE SERVICEBERRY	D	3	--	6'-7"	B&B MULTISTEM
GT	GLEDITSIA TRIACANTHOS INERMIS	TRUE SHADE HONEY LOCUST	D	5	2.5" CAL	--	B&B
CONIFEROUS TREES							
TO	THUJA OCCIDENTALIS "TECHNY"	MISSION PYRAMIDAL ARBORITAE	E	6	5'-6"	--	B&B
SHRUBS							
BG	BUXUX X. "GREEN VELVET"	BOXWOOD	D	30	18"	--	CONT.
GRASSES							
MI	MISCANTHUS SINENSIS "MORNING LIGHT"	MORNING LIGHT MAIDEN GRASS	PER	32	PLUGS	--	CONT. 18" O.C.
HE	HEMEROCALLIS "HAPPY RETURNS"	HAPPY RETURNS DAY LILLY	--	290	18" SP	--	CONT.
HBA	HOSTA "BLUE ANGEL"	BLUE ANGEL	--	8	36" SP	--	CONT.
GROUND COVER							
WC	EUONYMUS FORTUNEI	WINTERCREEPER	--	AS REQ'D	LOW GROWING	6" OR UNDER	--

GENERAL LANDSCAPING NOTES:

- LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
- SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.
- ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
- NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE ARCHITECT.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT THE TIME OF PLANTING.
- WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHELL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE ARCHITECT OR OWNER.
- ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS OF PLANTING.
- THE CONTRACTOR SHALL PROVIDE LOAM FILL.
- ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY, UNTIL SUBSTANTIAL COMPLETION OF PROJECT.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.



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BULLETIN 07/17/2023

LANDSCAPE PLAN
GERMANTOWN CROSSING
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TURNING VISIONS
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03/31/2023

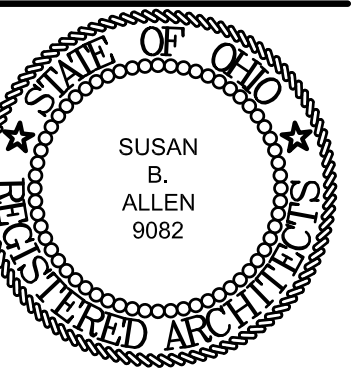
DATE

82A21

PROJECT NUMBER

L100
DRAWING NUMBER

1 LANDSCAPE PLAN
L100 SCALE: 1/16" = 1'-0"



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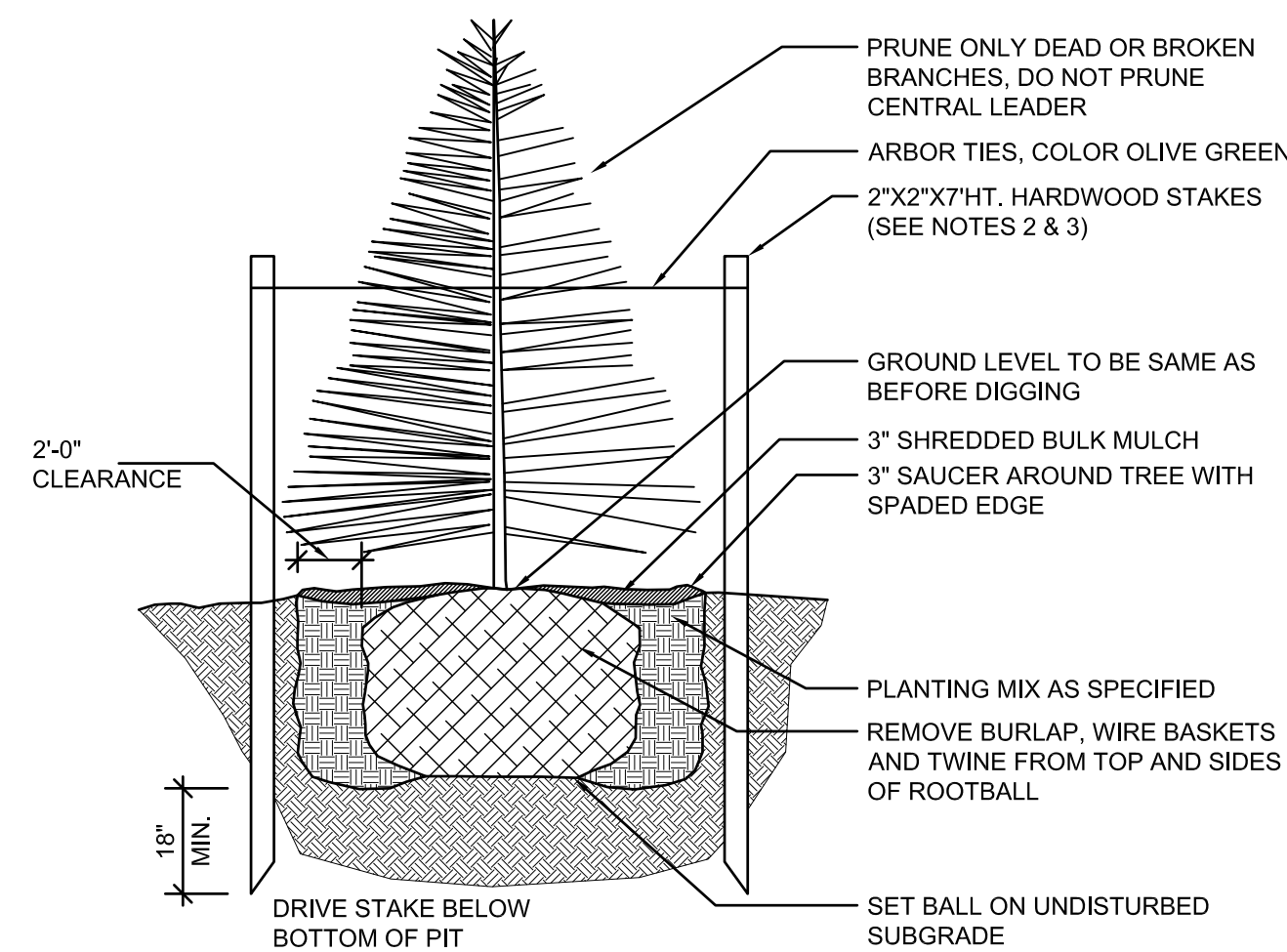
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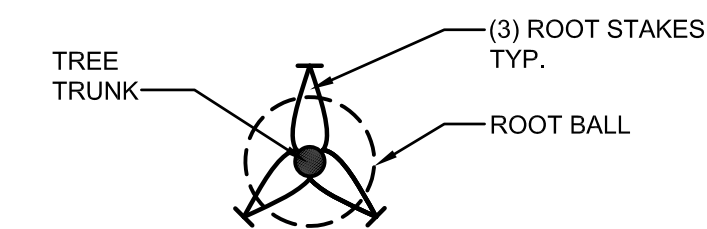
L101

DRAWING NUMBER

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.

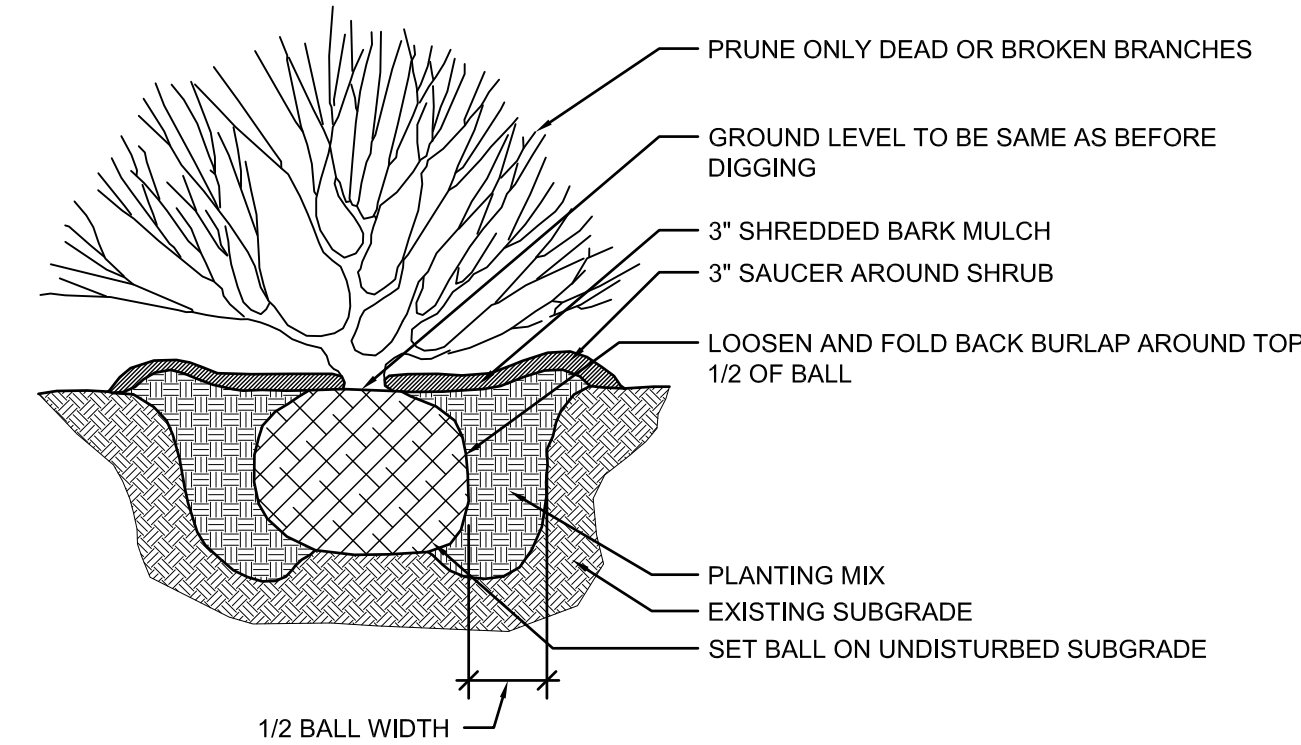


3
L101 SCALE: NOT TO SCALE



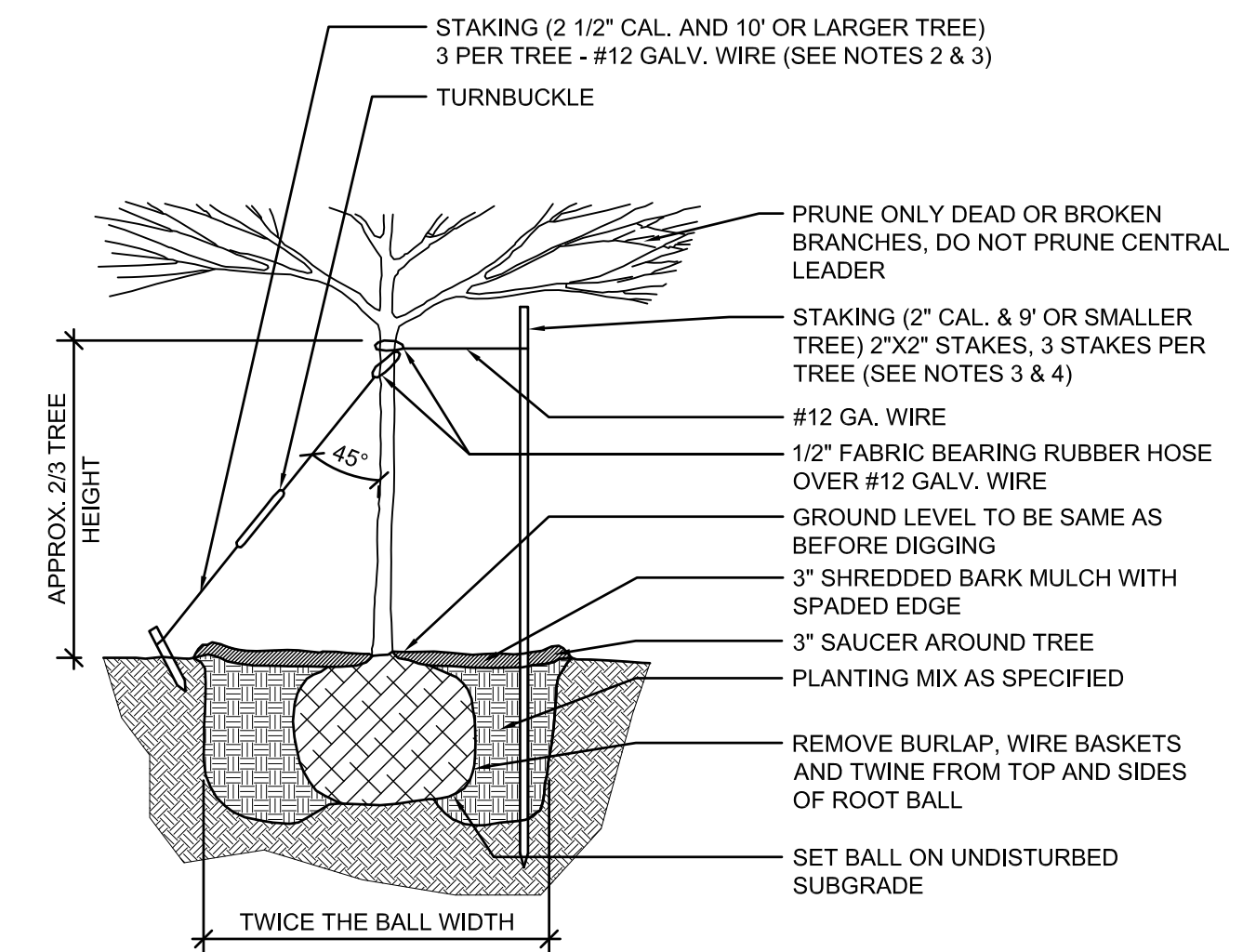
5
L101 SCALE: NOT TO SCALE

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



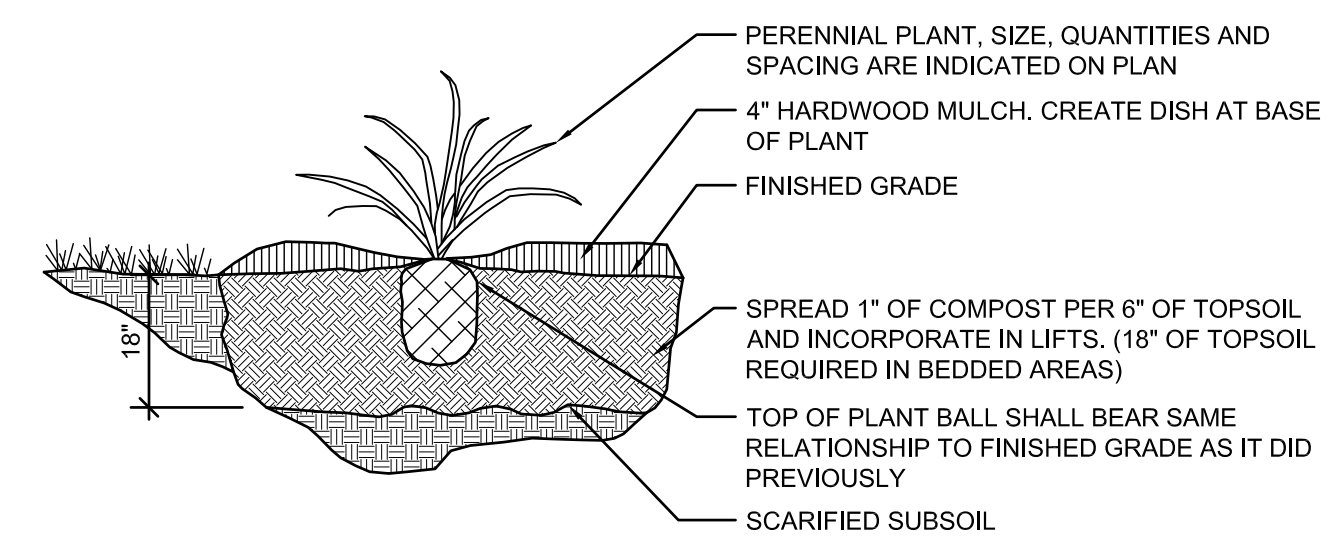
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L101 SCALE: NOT TO SCALE

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
L101 SCALE: NOT TO SCALE

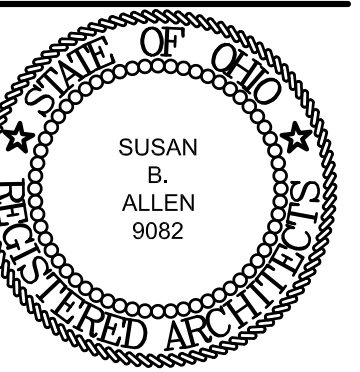
NOTES:
1. COMPOST SHALL CONSIST OF STERILIZED, COMPOSTED MATERIAL (SWEET PEAT OR OTHER APPROVED). CONTRACTOR SHALL SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION OF PLANTS.



1
L101 SCALE: NOT TO SCALE

GENERAL NOTES

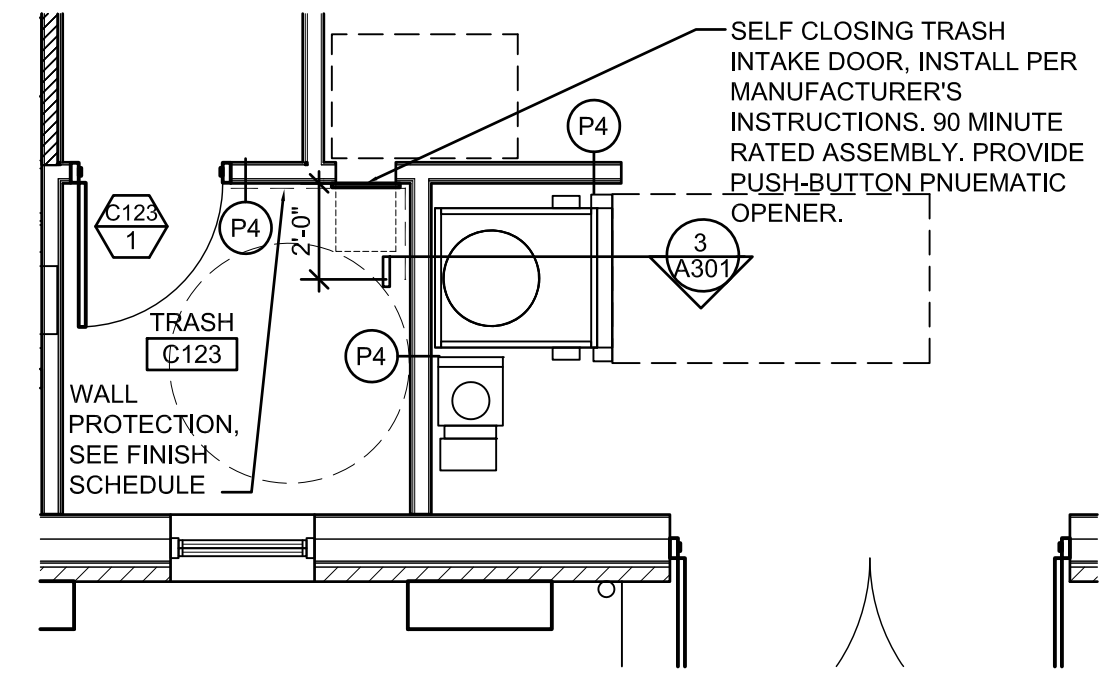
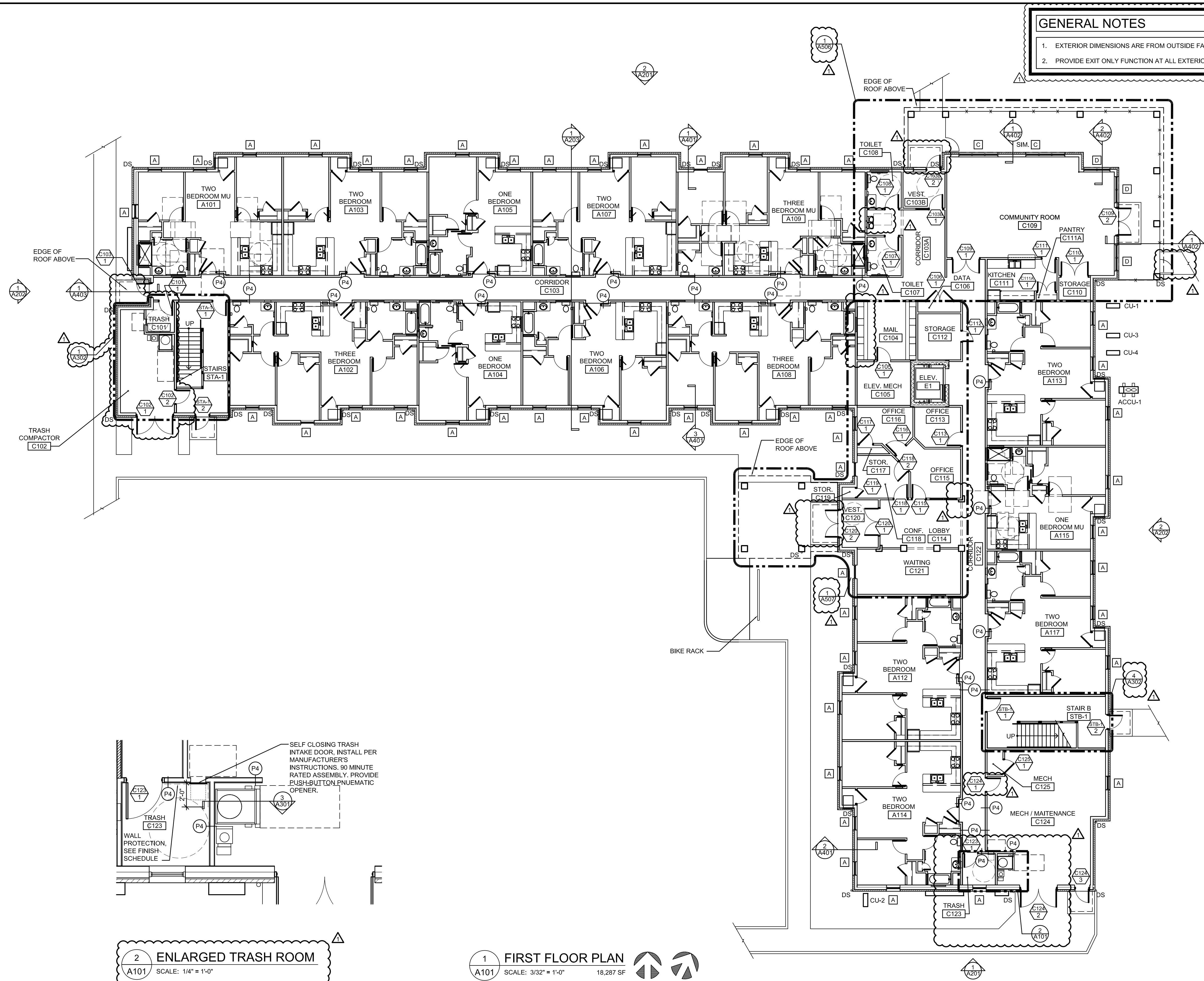
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.
2. PROVIDE EXIT ONLY FUNCTION AT ALL EXTERIOR GATES.



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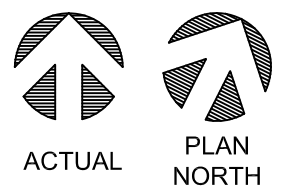
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2 ENLARGED TRASH ROOM
A101 SCALE: 1/4" = 1'-0"

1 FIRST FLOOR PLAN
A101 SCALE: 3/32" = 1'-0" 18,287 SF



FIRST FLOOR PLAN
GERMANTOWN CROSSING
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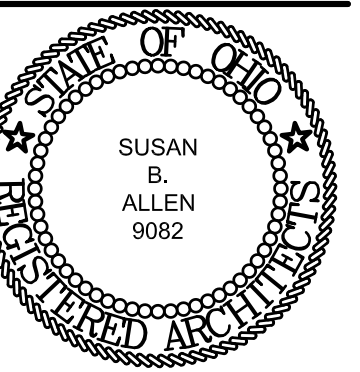
PROJECT NUMBER

A101

DRAWING NUMBER

GENERAL NOTES

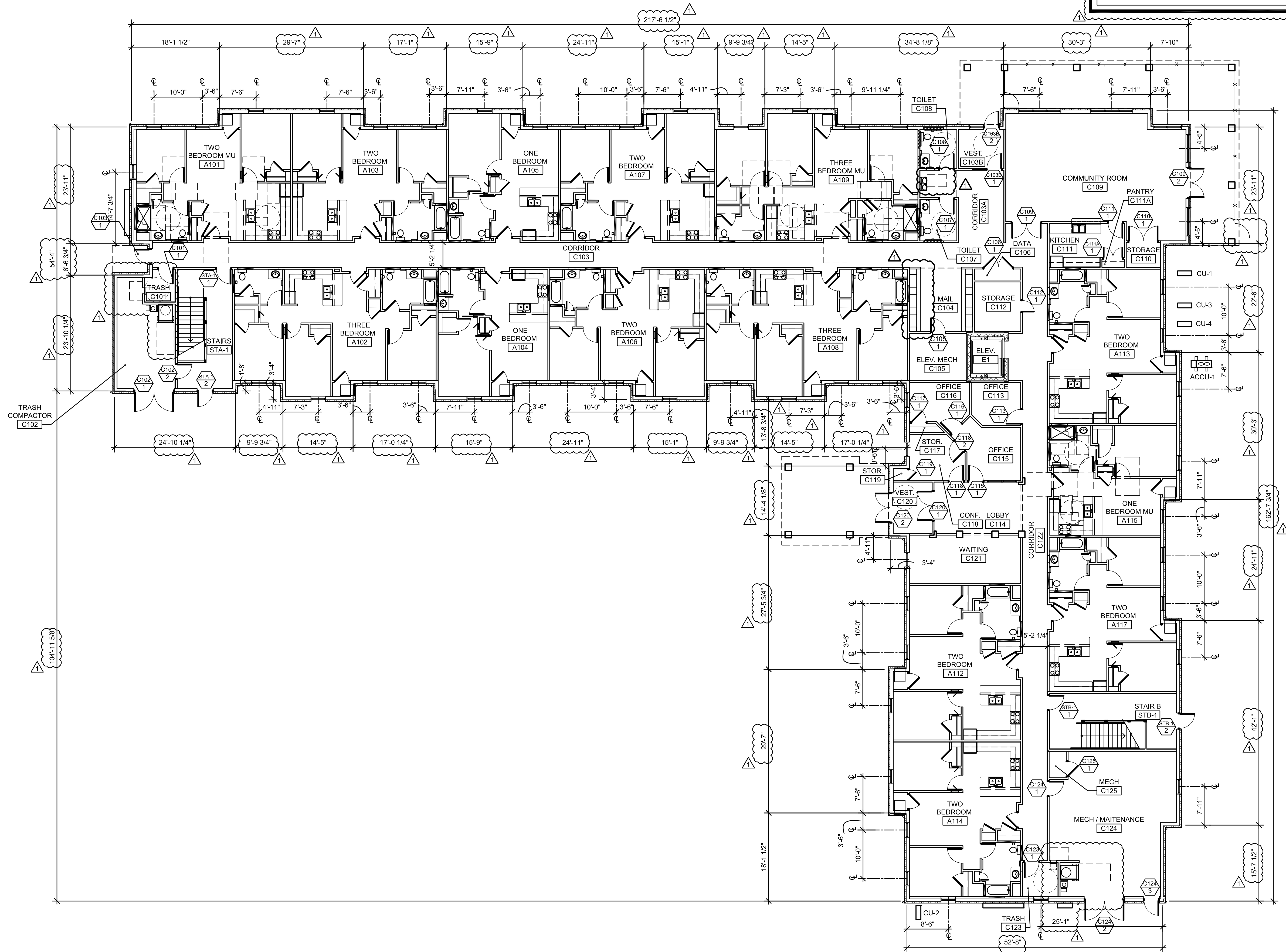
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.
2. PROVIDE EXIT ONLY FUNCTION AT ALL EXTERIOR GATES.



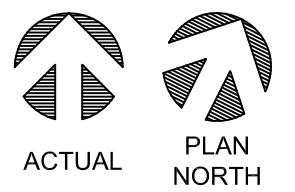
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1 FIRST FLOOR DIMENSIONAL PLAN
 A101A SCALE: 3/32" = 1'-0" 18.287 SF



FIRST FLOOR DIMENSIONAL PLAN

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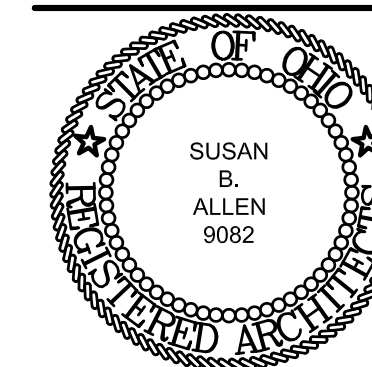
PROJECT NUMBER

A101A

DRAWING NUMBER

GENERAL NOTES

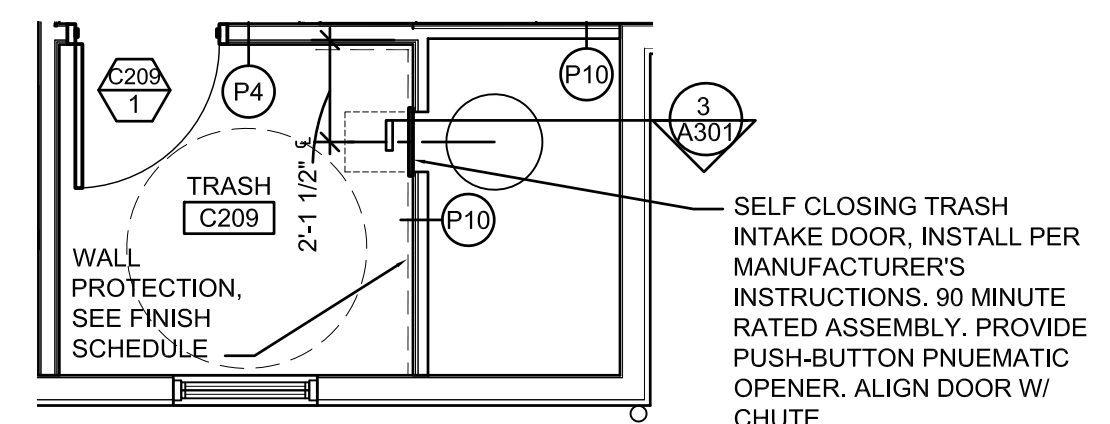
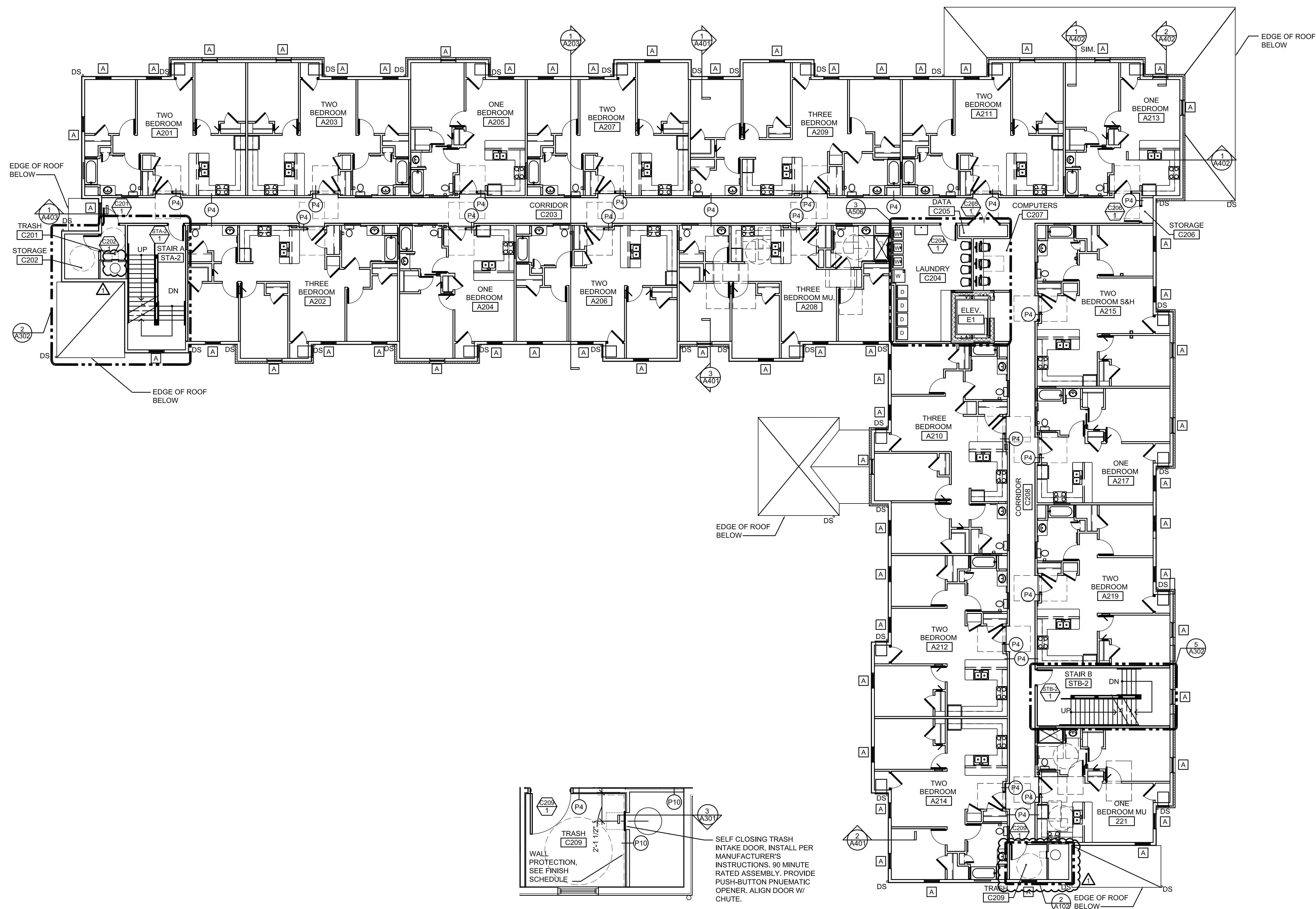
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.
2. PROVIDE EXIT ONLY FUNCTION AT ALL EXTERIOR GATES.



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2 ENLARGED TRASH ROOM
A102 SCALE: 1/4" = 1'-0"

1 SECOND FLOOR PLAN
A102 SCALE: 3/32" = 1'-0" 17,777 SF
ACTUAL PLAN NORTH

SECOND FLOOR PLAN
GERMANTOWN CROSSING
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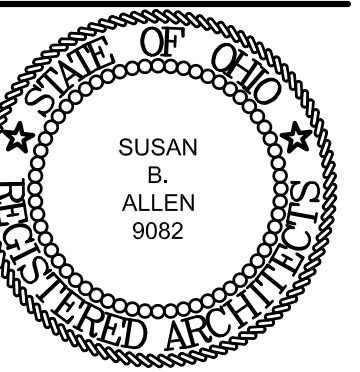
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PROJECT NUMBER

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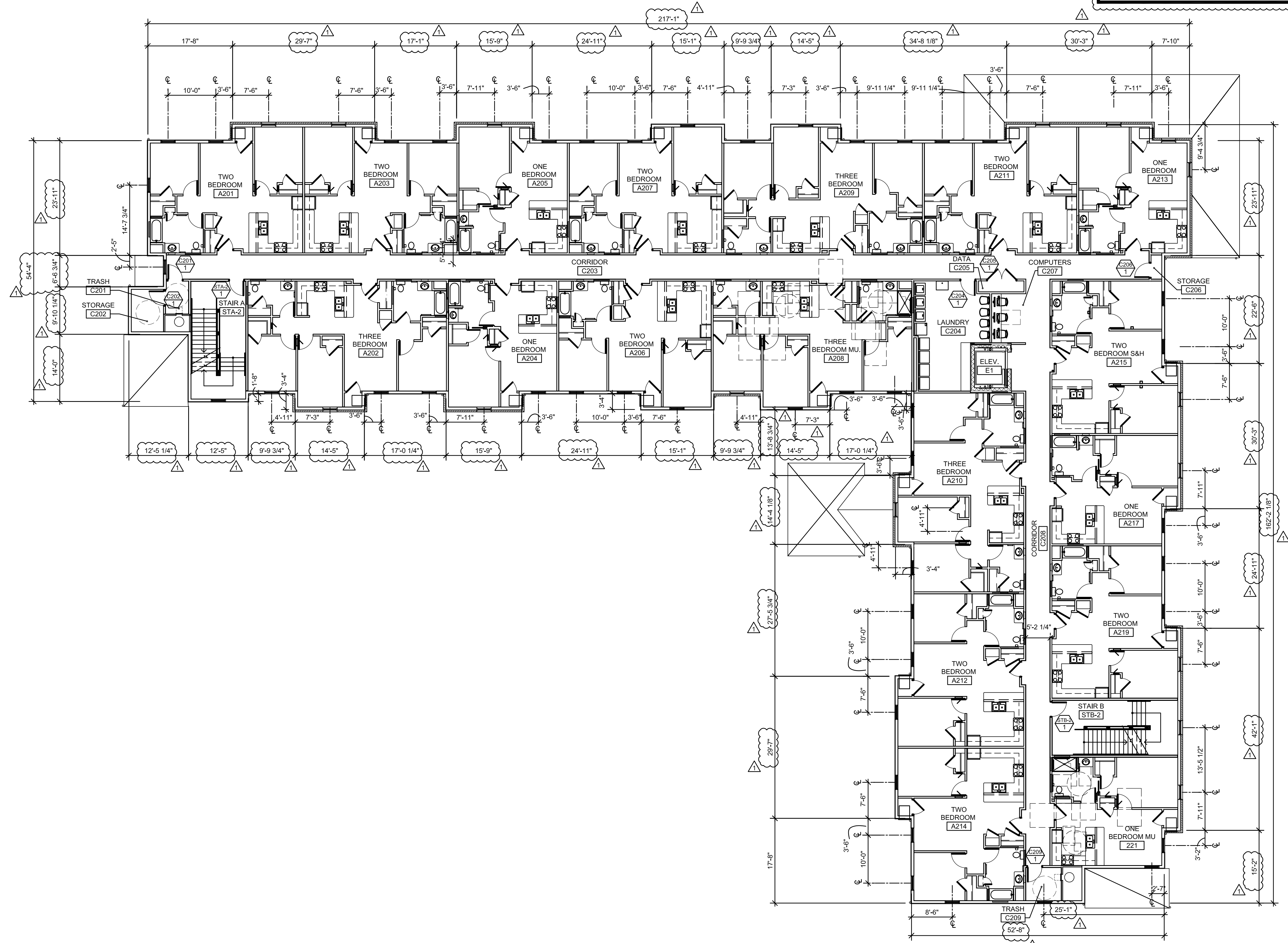
DRAWING NUMBER

GENERAL NOTES
 1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.



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SECOND FLOOR DIMENSIONAL PLAN
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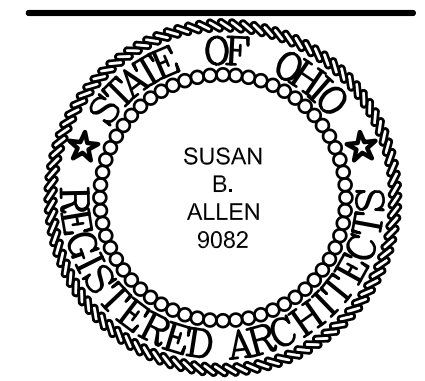
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 82A21
 PROJECT NUMBER

A102A
 DRAWING NUMBER

GENERAL NOTES

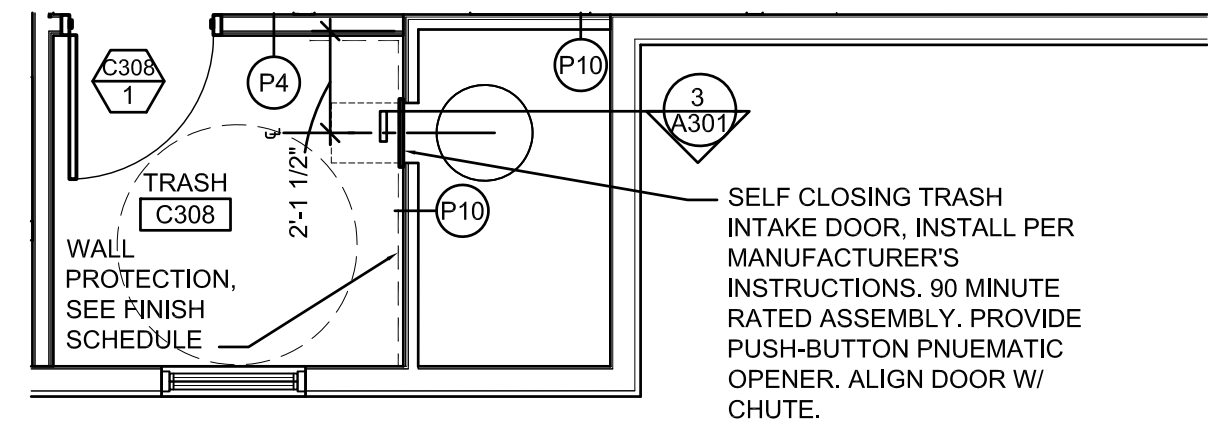
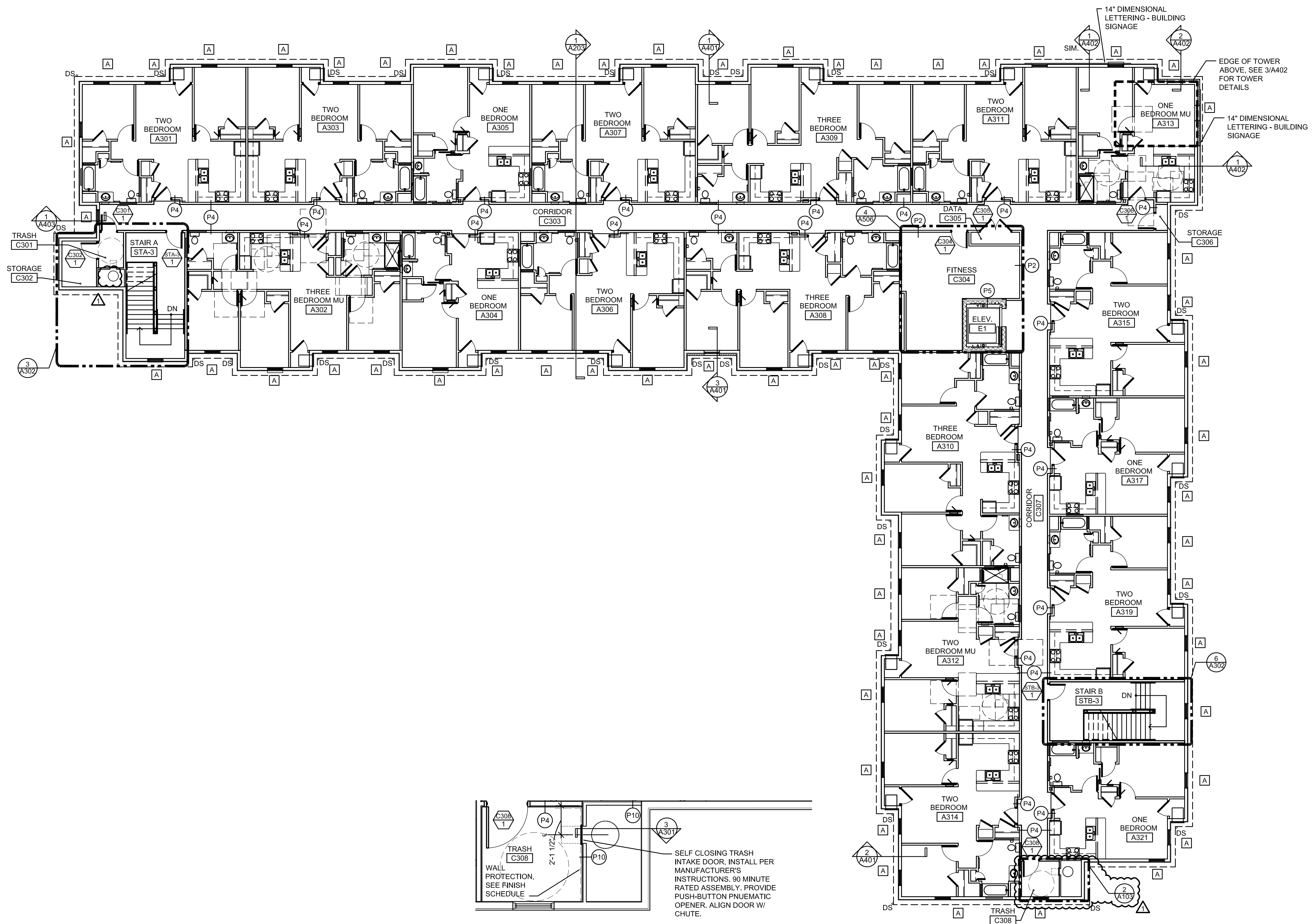
1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.



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2 ENLARGED TRASH ROOM
A103 SCALE: 1/4" = 1'-0"

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

THIRD FLOOR PLAN
GERMANTOWN CROSSING
DAYTON OHIO



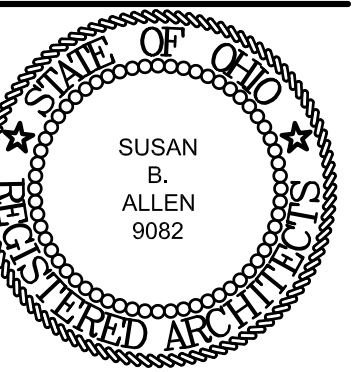
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PROJECT NUMBER

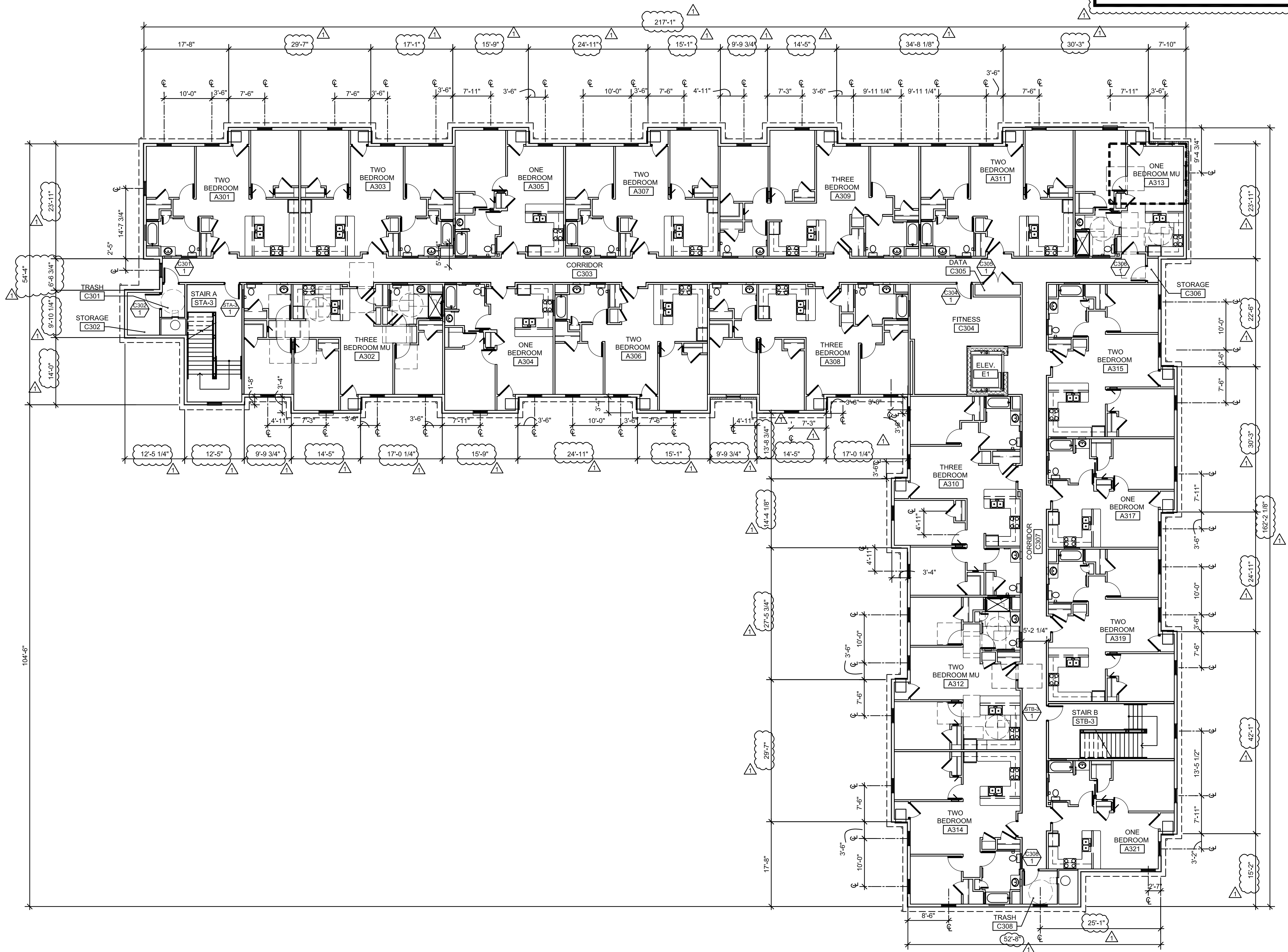
A103
DRAWING NUMBER

GENERAL NOTES
 1. EXTERIOR DIMENSIONS ARE FROM OUTSIDE FACE OF WOOD STUD.



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THIRD FLOOR DIMENSIONAL PLAN
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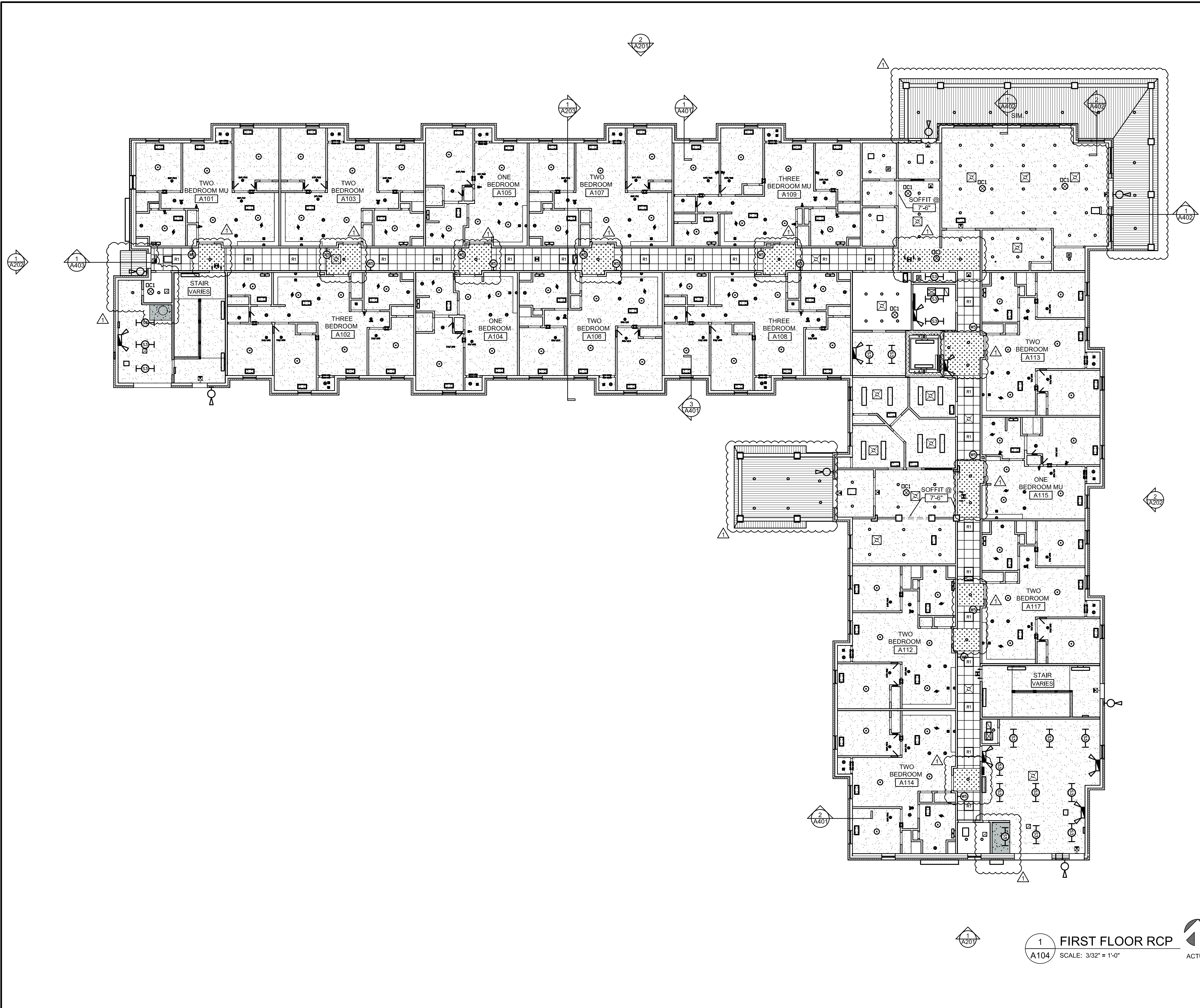
PROJECT NUMBER

A103A

DRAWING NUMBER

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

W:\GDP\Germantown Crossing-82A21\85Dwgs\SCDA\104 A105 A106 RCP.dwg Jul 13, 2023 - 3:32pm



RCP LEGEND

	2 X 2 ACT CEILING W/ 1 HR RATED ASSEMBLY UL L550 ABOVE SEE 2 / A203
	DRYWALL CEILING W/ 1 HR RATED ASSEMBLY UL L550 ABOVE. SEE 2 / A203 SIM.
	1 HR RATED ASSEMBLY UL L550 SEE 1 / A401
	2 HOUR RATED DRYWALL CEILING UL L556. SEE 3 / A301
	2 HOUR RATED DRYWALL CEILING UL P533. SEE 3 / A301
	NON-RATED DRYWALL CEILING
	SOFFIT MATERIAL

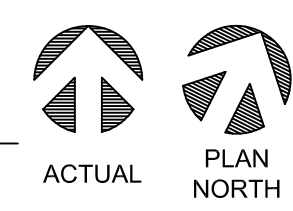
FOR INFORMATION ON CEILING FIXTURES
PLEASE SEE MECHANICAL & ELECTRICAL
DRAWINGS

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.
- 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"



REVISIONS

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FIRST FLOOR RCP
GERMANTOWN CROSSING
DAYTON OHIO



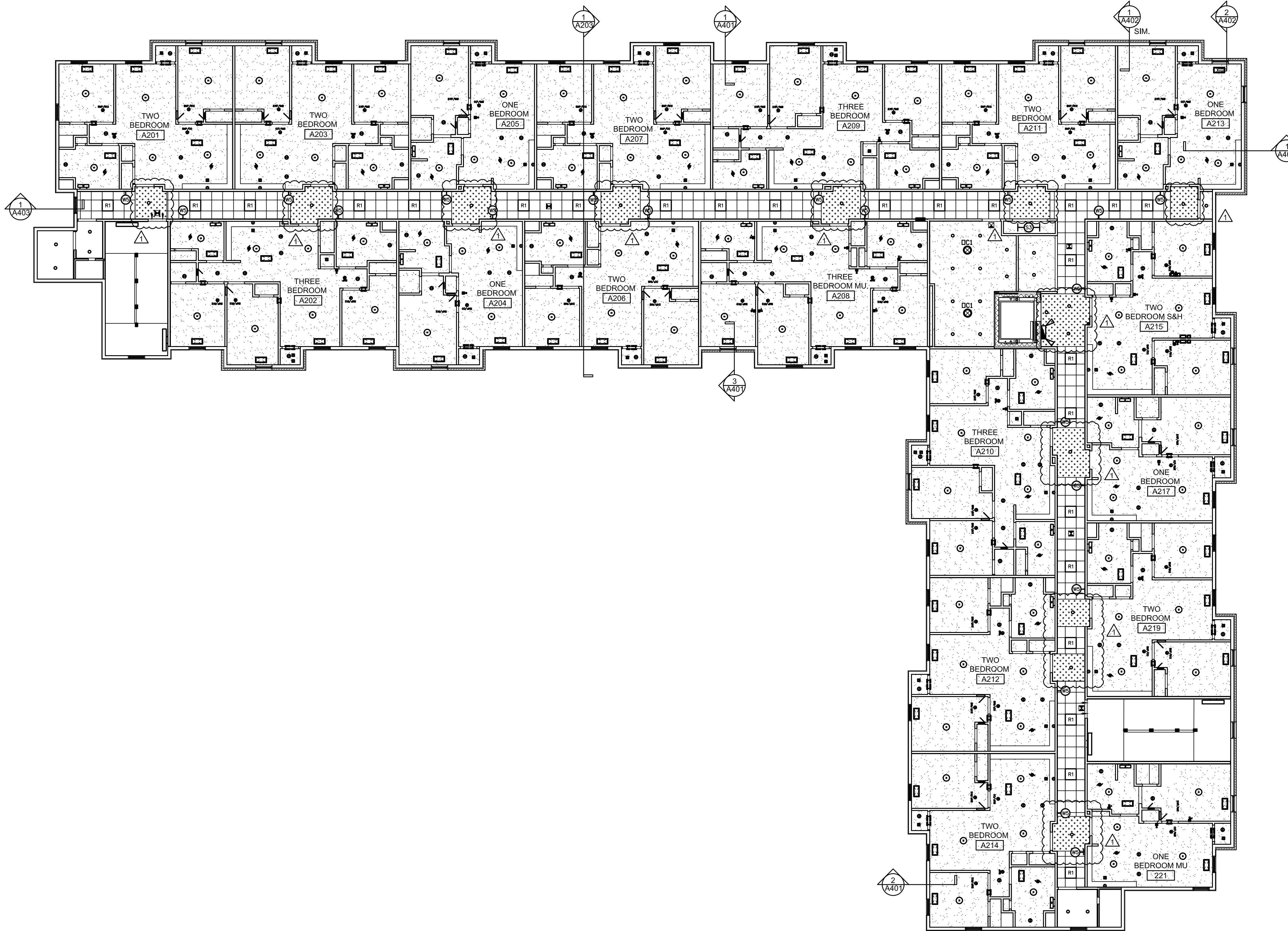
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03/31/2023
DATE
82A21
PROJECT NUMBER

A104
DRAWING NUMBER

W:\GDFM\Germantown Crossing-82A21\05Dwg\SCDA\104 A105 A106 RCP.dwg Jul 13, 2023 - 3:32pm



RCP LEGEND

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	DRYWALL CEILING W/ 1 HR RATED ASSEMBLY UL L550 ABOVE. SEE 2 / A203 SIM.
	1 HR RATED ASSEMBLY UL L550 SEE 1 / A401
	2 HOUR RATED DRYWALL CEILING UL L556. SEE 3 / A301
	2 HOUR RATED DRYWALL CEILING UL P533. SEE 3 / A301
	NON-RATED DRYWALL CEILING
	SOFFIT MATERIAL

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

ACTUAL
 PLAN NORTH

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SECOND FLOOR RCP
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03/31/2023
DATE
82A21
PROJECT NUMBER

A105
DRAWING NUMBER

W:\GDP\Germantown Crossing-82A21\85Dwgs\3CDA\104 A106 A106 RCP.dwg Jul 20, 2023 - 9:46am



RCP LEGEND

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	DRYWALL CEILING W/ 1 HR RATED ASSEMBLY UL L550 ABOVE. SEE 2 / A203 SIM.
	1 HR RATED ASSEMBLY UL L550 SEE 1 / A401
	2 HOUR RATED DRYWALL CEILING UL L556. SEE 3 / A301
	2 HOUR RATED DRYWALL CEILING UL P533. SEE 3 / A301
	NON-RATED DRYWALL CEILING
	SOFFIT MATERIAL

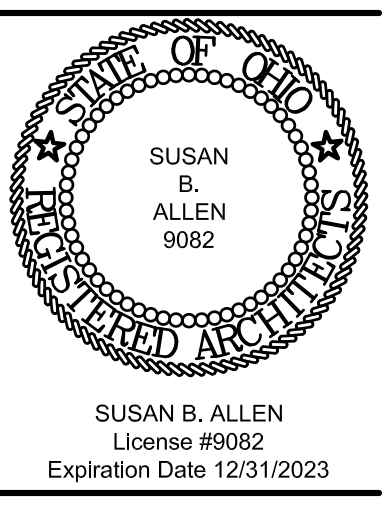
FOR INFORMATION ON CEILING FIXTURES
PLEASE SEE MECHANICAL & ELECTRICAL
DRAWINGS

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



REVISIONS

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THIRD FLOOR RCP
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DAYTON OHIO

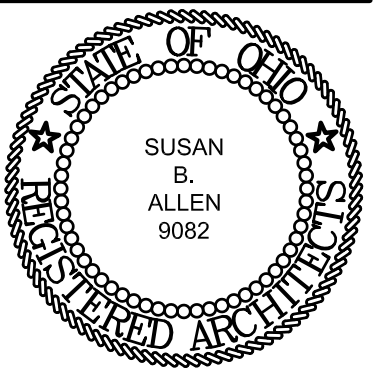


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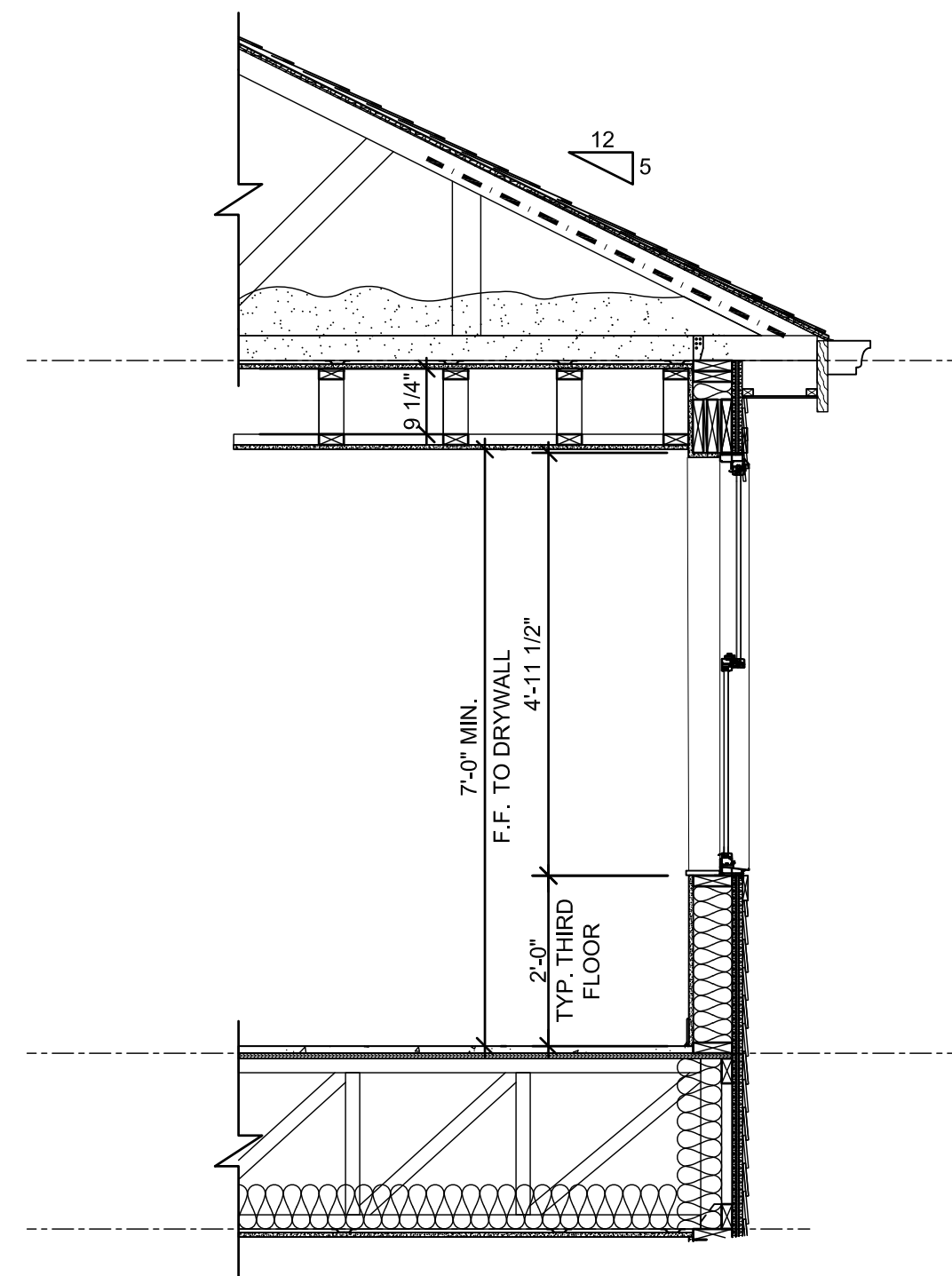
03/31/2023
DATE
82A21
PROJECT NUMBER

A106
DRAWING NUMBER

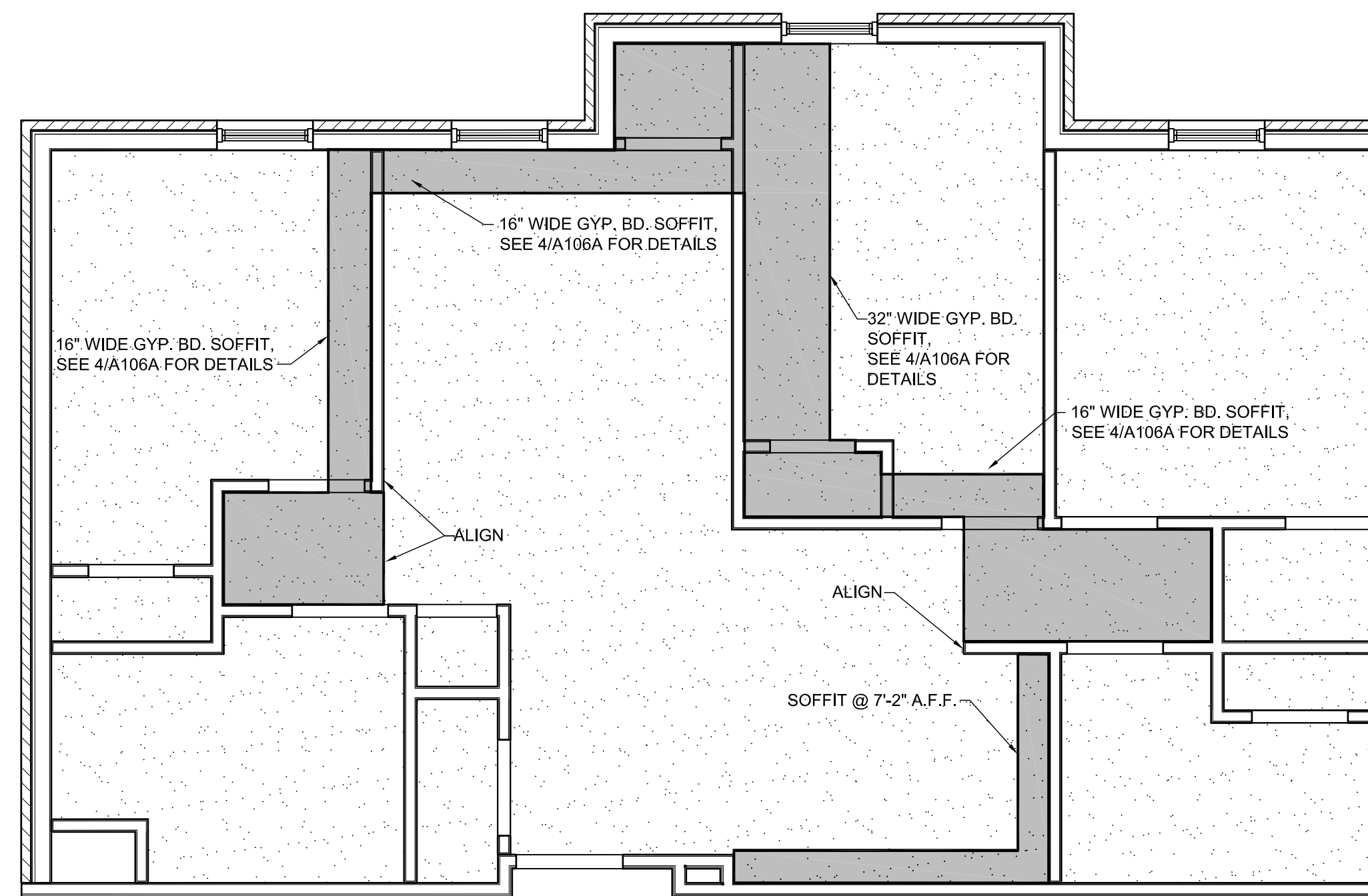


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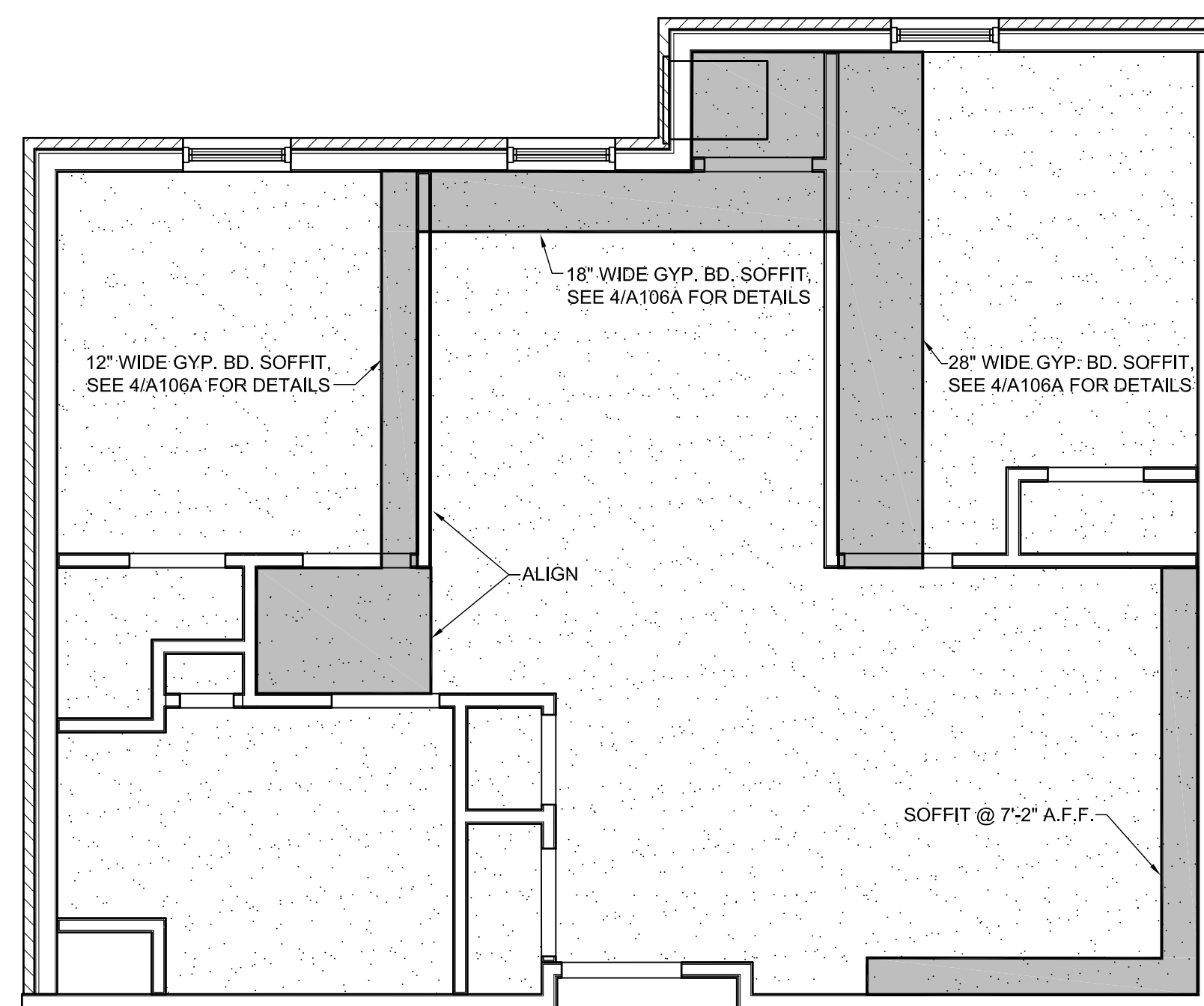
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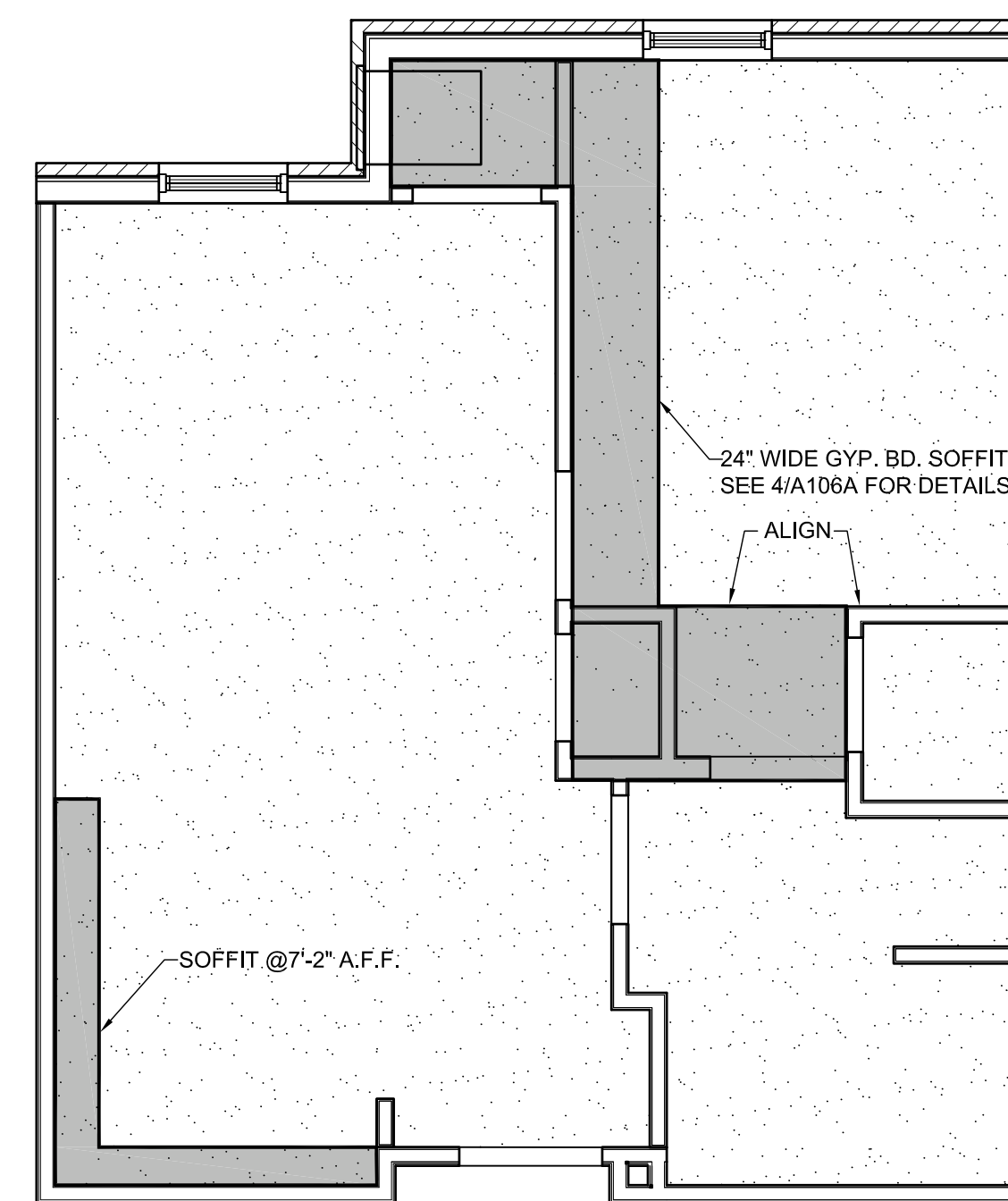
4 SOFFIT SECTION
A106A SCALE: 1/4" = 1'-0"



3 THREE BEDROOM RCP
A106A SCALE: 1/4" = 1'-0"



2 TWO BEDROOM RCP
A106A SCALE: 1/4" = 1'-0"



1 ONE BEDROOM RCP
A106A SCALE: 1/4" = 1'-0"

3RD FLOOR ONLY - UNIT RCP
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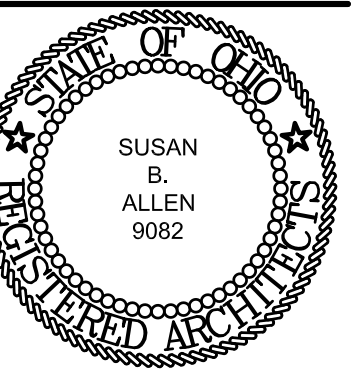
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PROJECT NUMBER

A106A

DRAWING NUMBER



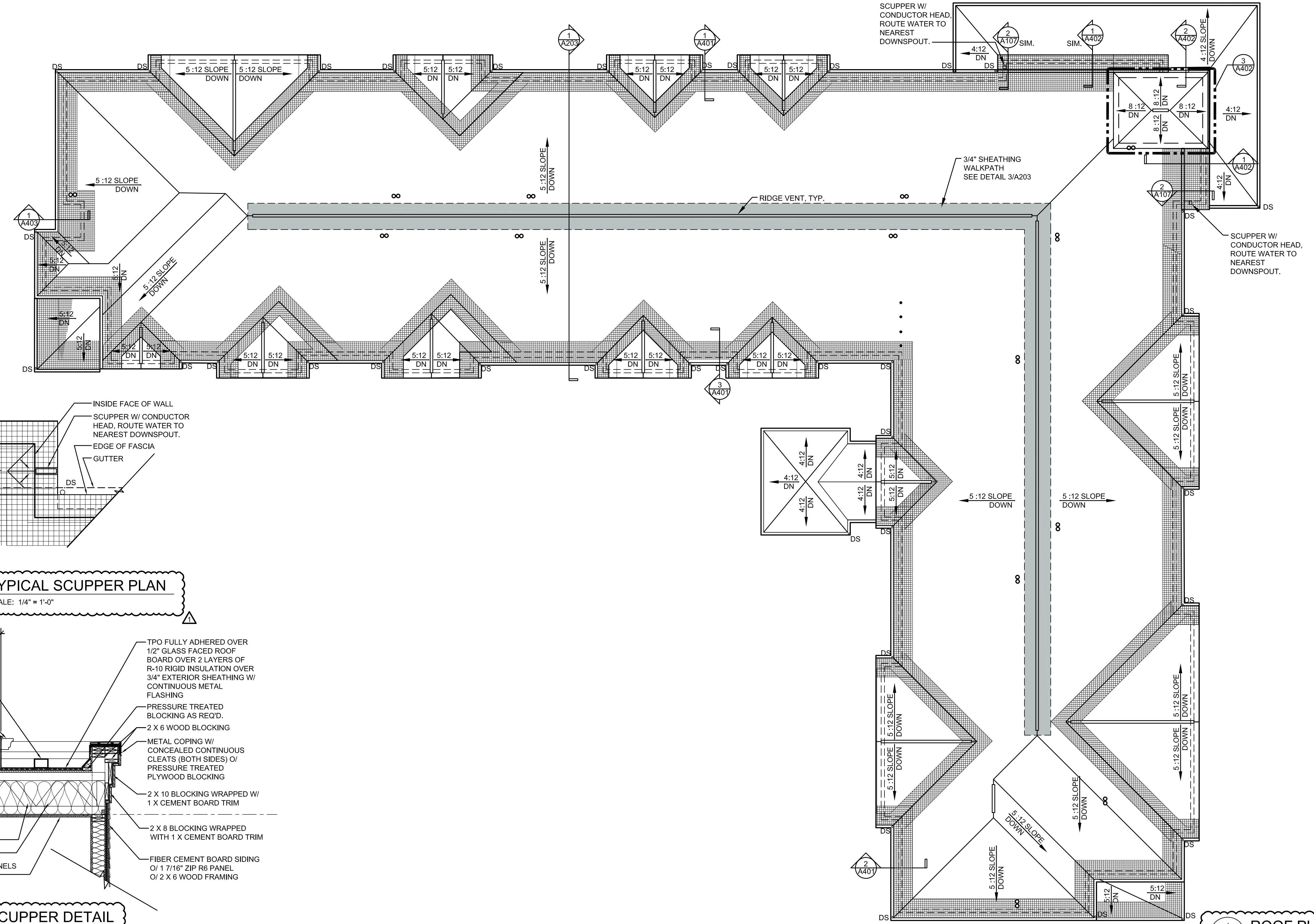
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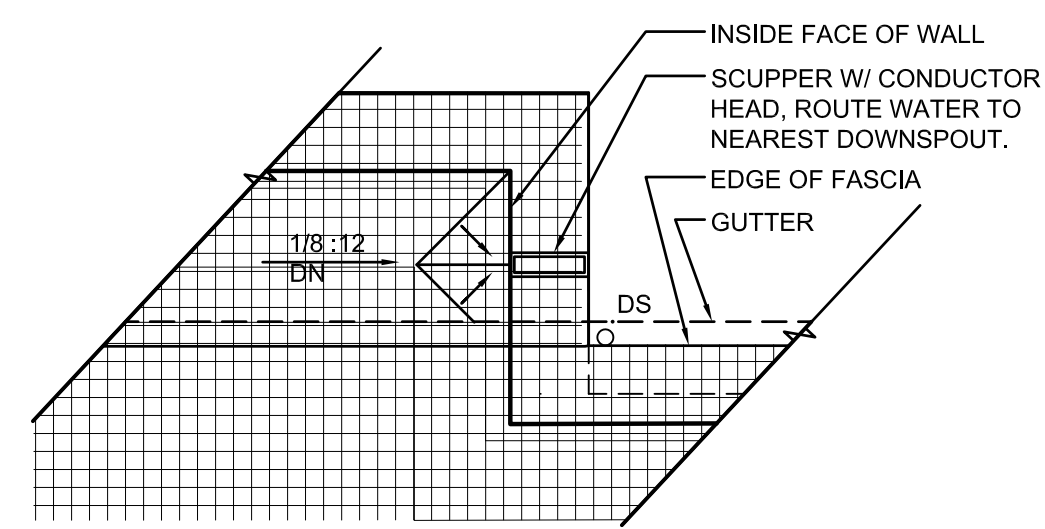
LEGEND

INDICATES ICE GUARD. SEE WALL SECTIONS. 2'-0" TYP. FROM INTERIOR FACE OF EXTERIOR WALL AND 24" MIN. (EACH SIDE) AT ROOF VALLEYS

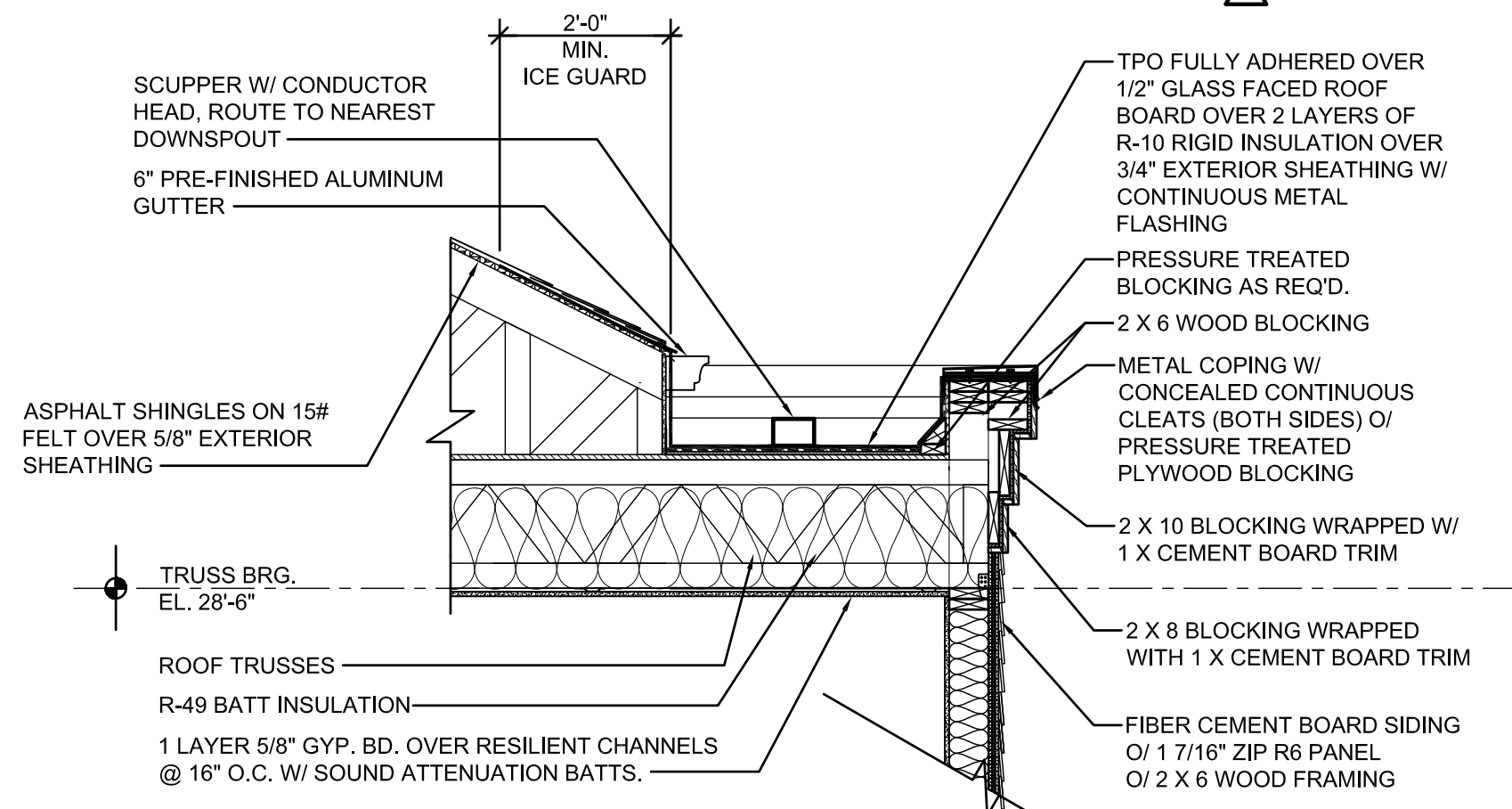
INDICATES WALK PATH. SEE SECTIONS. 3/4" SHEATHING 5'-0" WIDTH TYP.



3 TYPICAL SCUPPER PLAN
A107 SCALE: 1/4" = 1'-0"



2 SCUPPER DETAIL
A107 SCALE: 1/2" = 1'-0"



1 ROOF PLAN
A107 SCALE: 3/32" = 1'-0"

ROOF PLAN
GERMANTOWN CROSSING
DAYTON OHIO



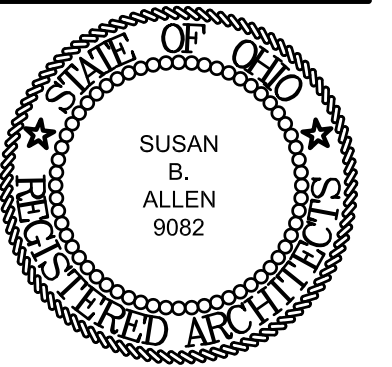
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TURNING VISIONS
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03/31/2023
DATE

82A21
PROJECT NUMBER

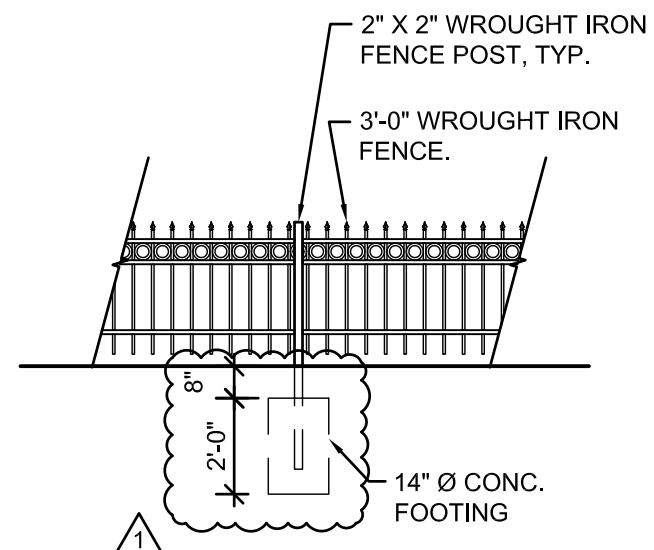
A107
DRAWING NUMBER



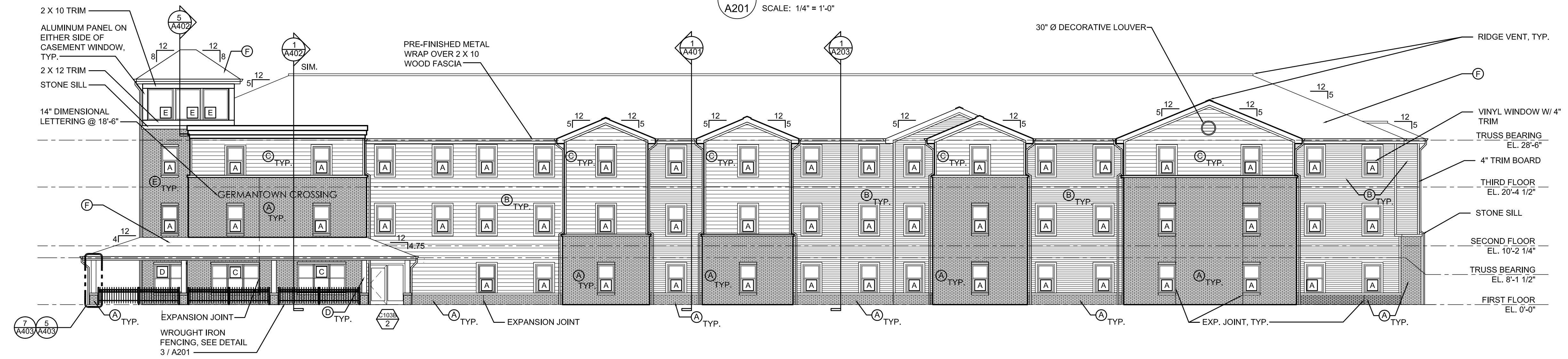
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REVISIONS
BULLETIN 01 07/17/2023

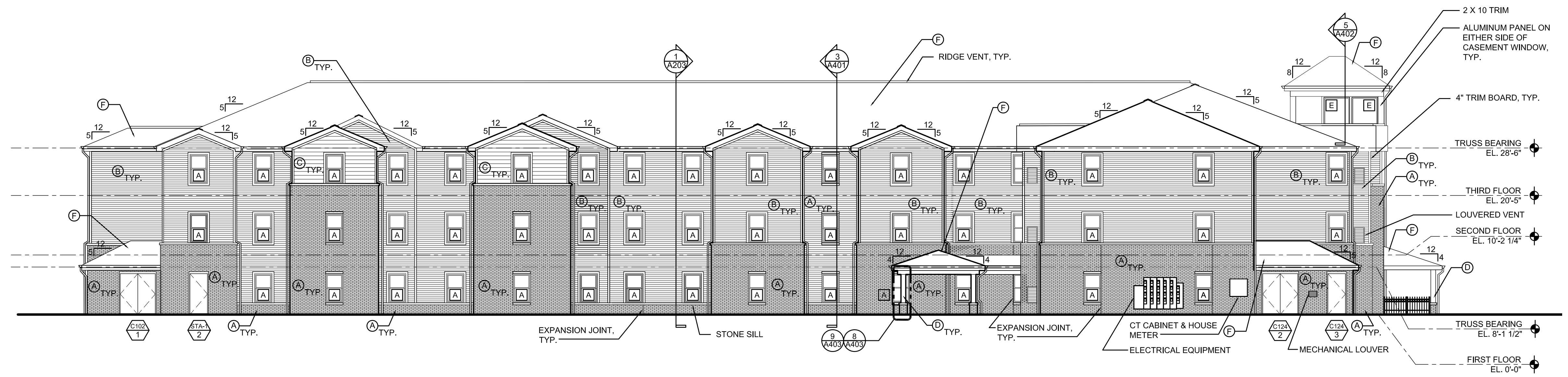
EXTERIOR FINISHES					
MARK	DESCRIPTION	COLOR	TEXTURE	MANUFACTURE	REMARKS
A	BRICK	TBD	TBD	TBD	-
B	4" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
C	8" HORIZONTAL CEMENT BOARD	TBD	TBD	TBD	-
D	COLUMN ENCLOSURE	TBD	TBD	TBD	-
E	BRICK	TBD	TBD	TBD	-
F	ASPHALT SHINGLES	TBD	TBD	TBD	-



3 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

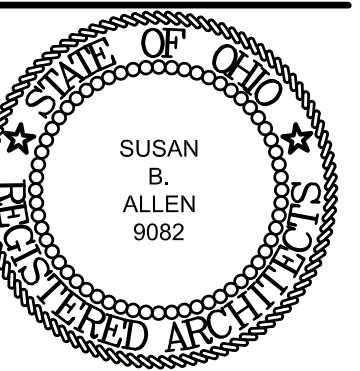


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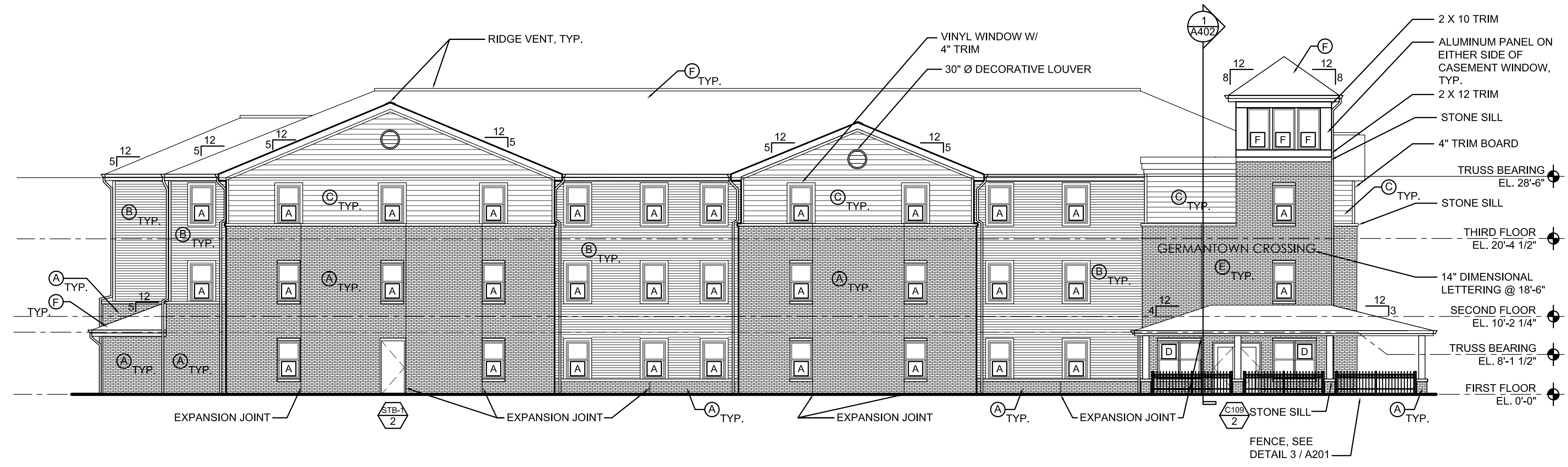
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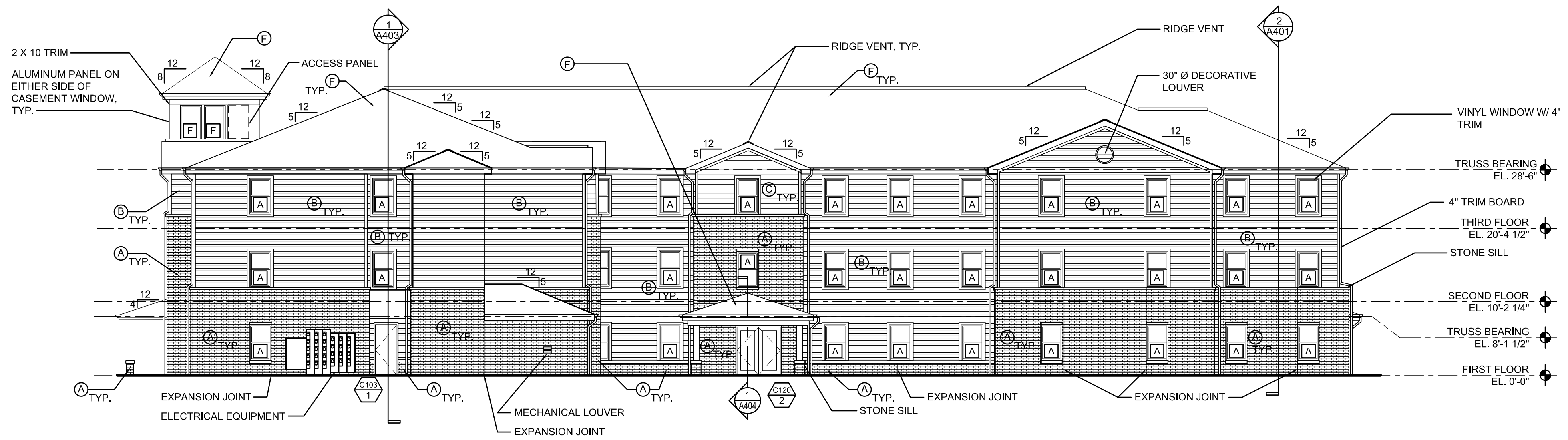
NO.	DATE	DESCRIPTION

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
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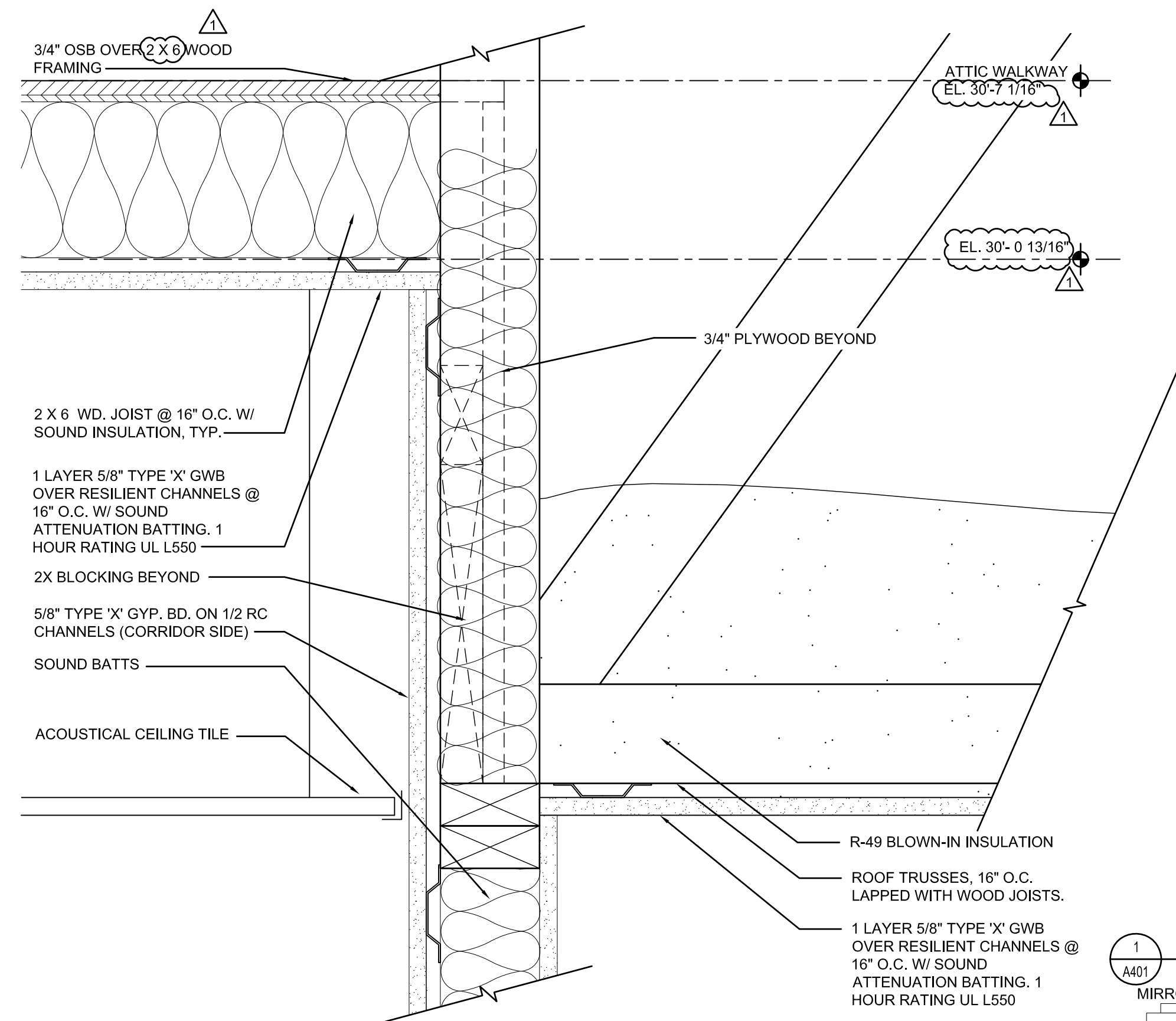
DATE

82A21

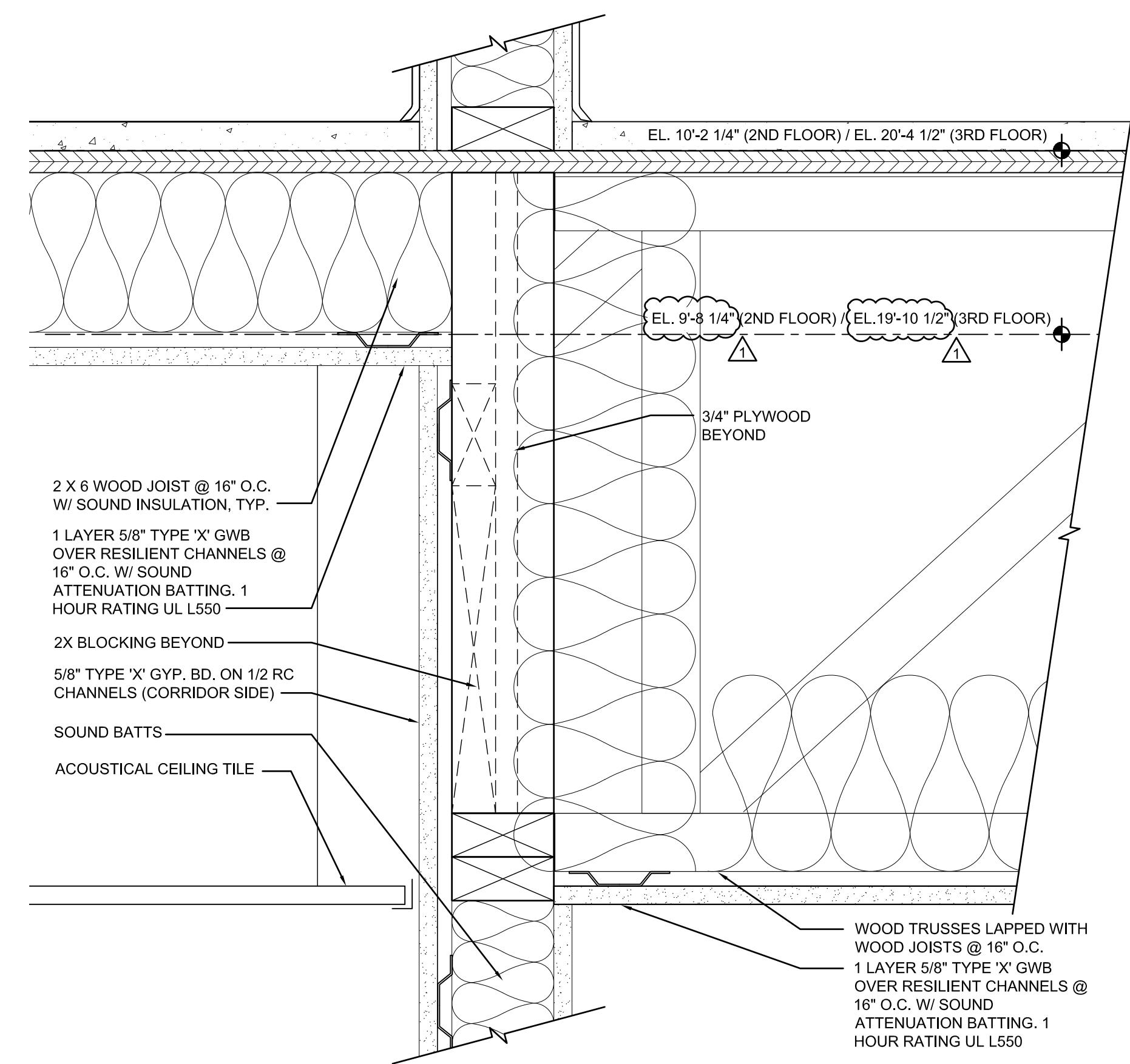
PROJECT NUMBER

A202

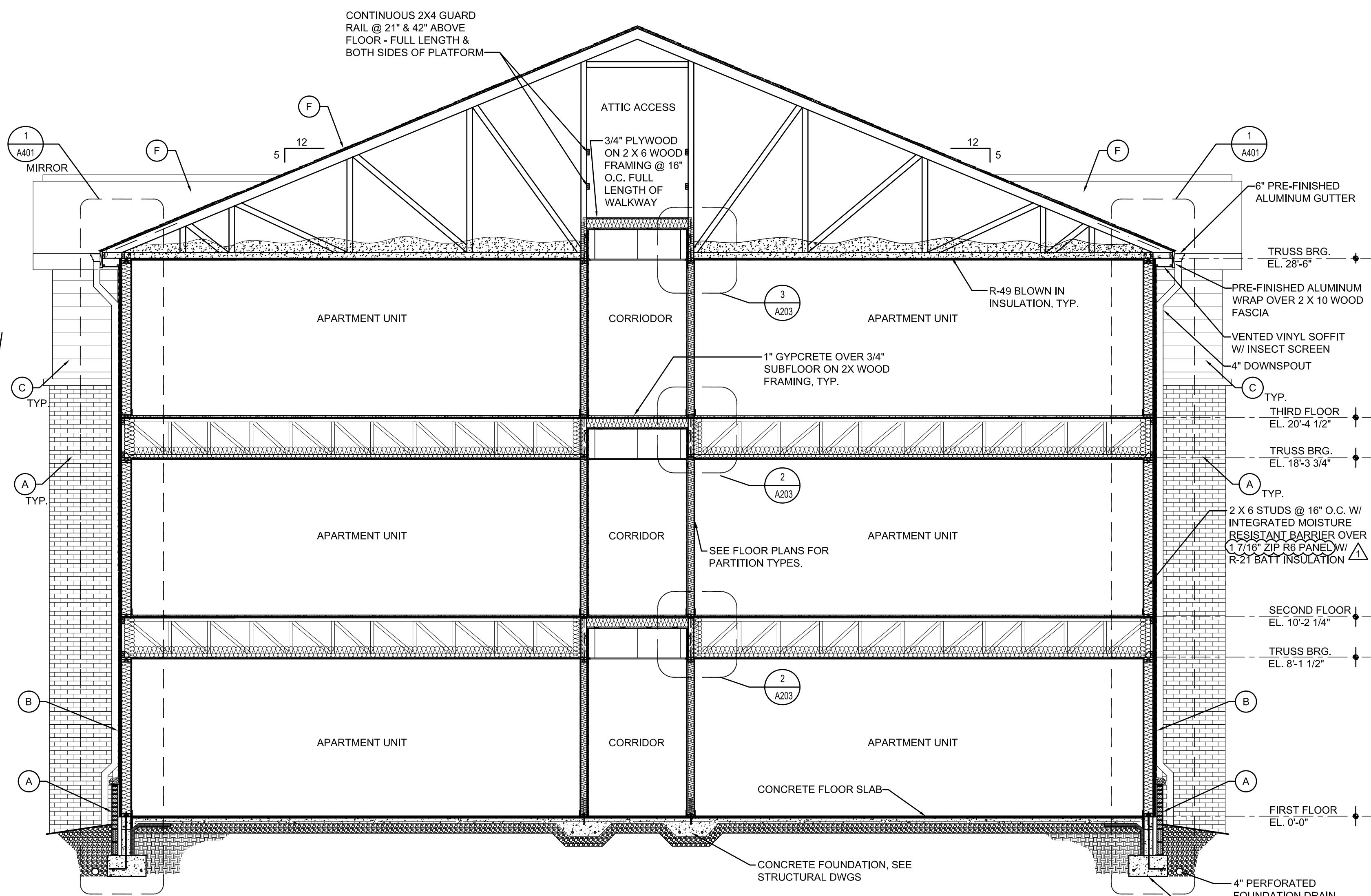
DRAWING NUMBER



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

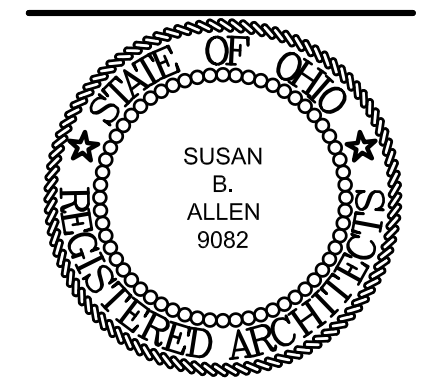


2 FRAMING DETAIL @ CORRIDOR
A203 SCALE: 3" = 1'-0"



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

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	-



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BUILDING SECTION
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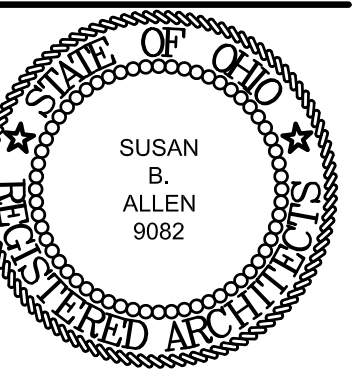


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82A21
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A203
DRAWING NUMBER



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ELEVATOR SECTION
GERMANTOWN CROSSING
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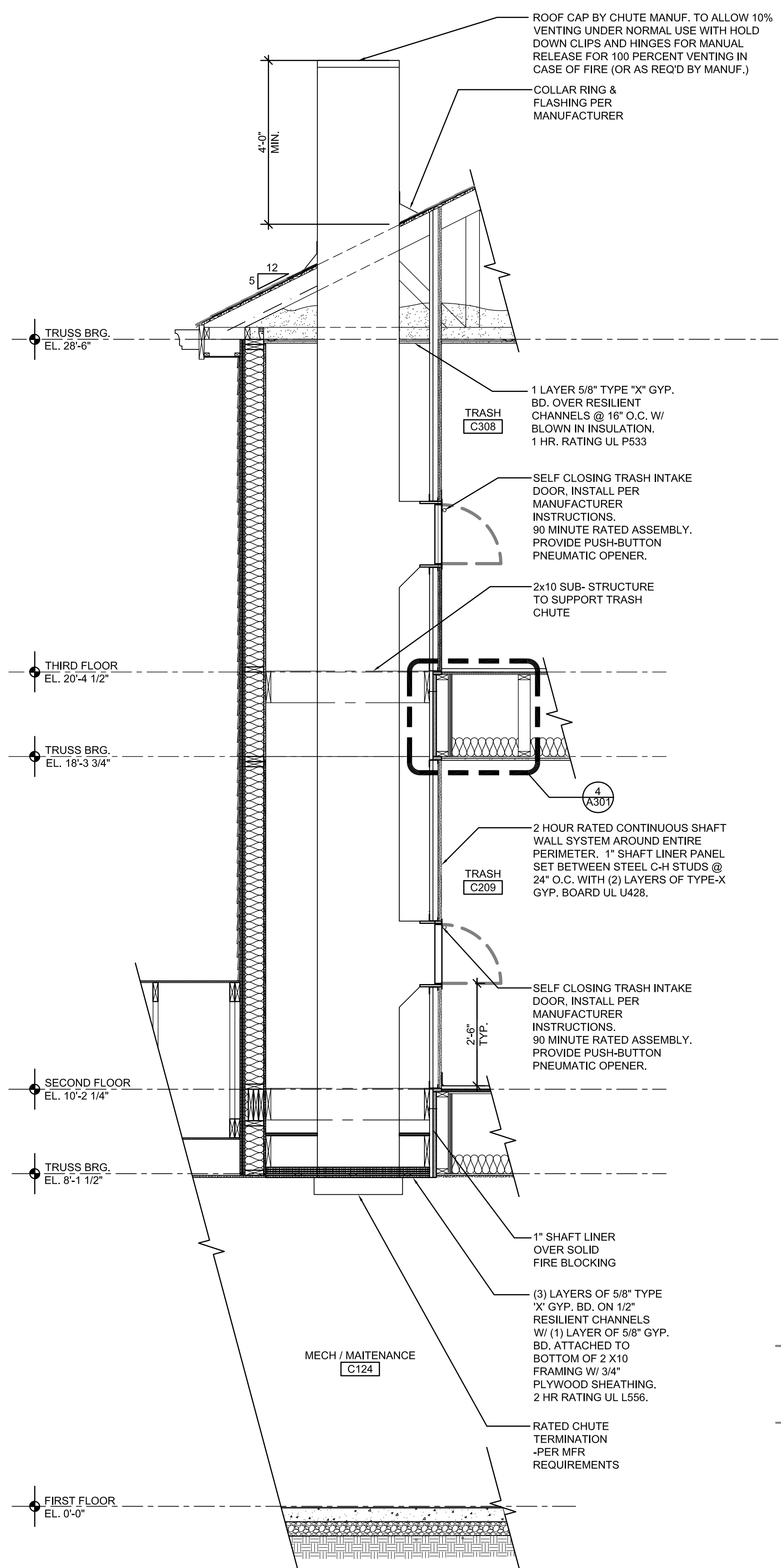
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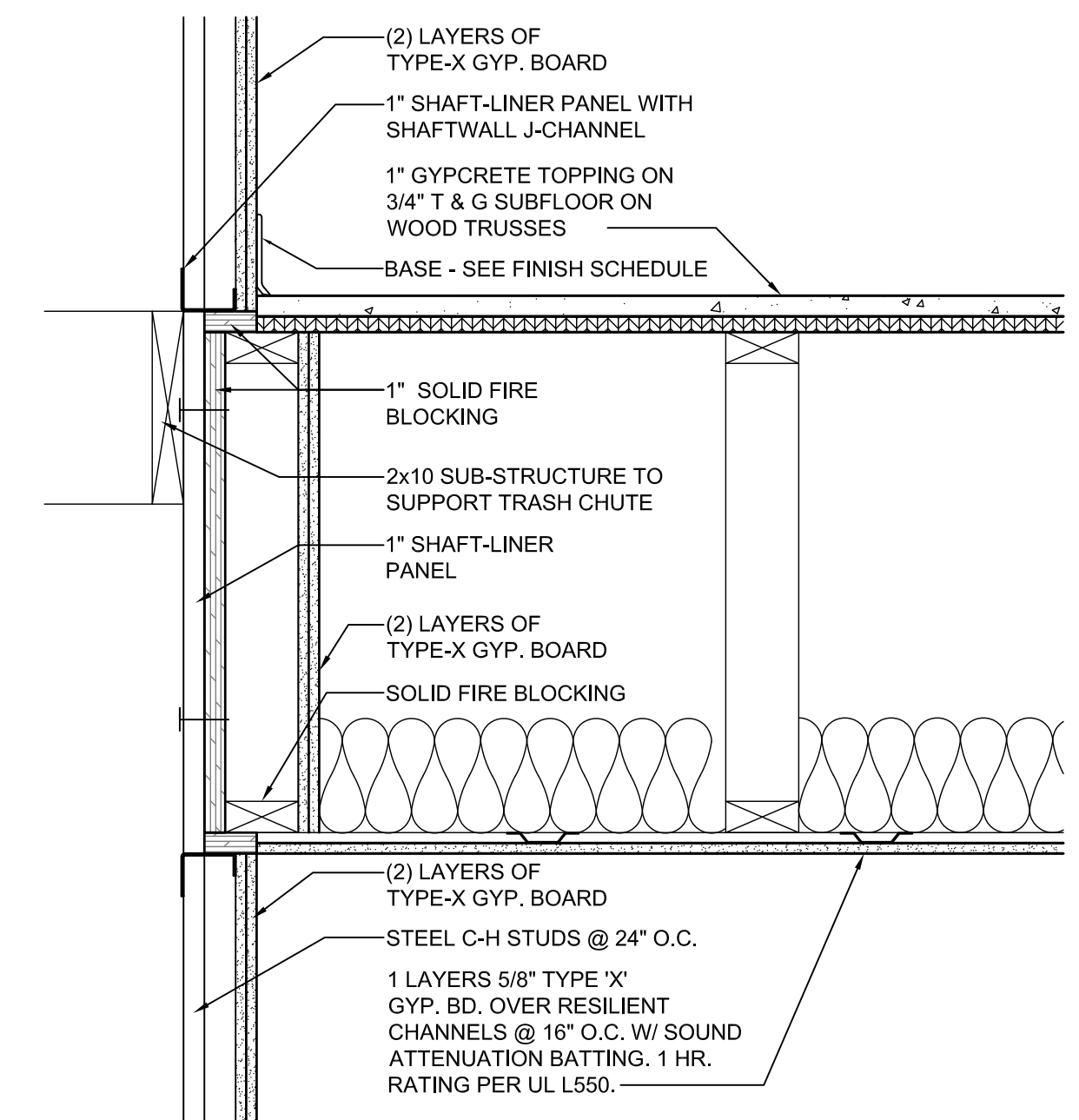
03/31/2023
DATE

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PROJECT NUMBER

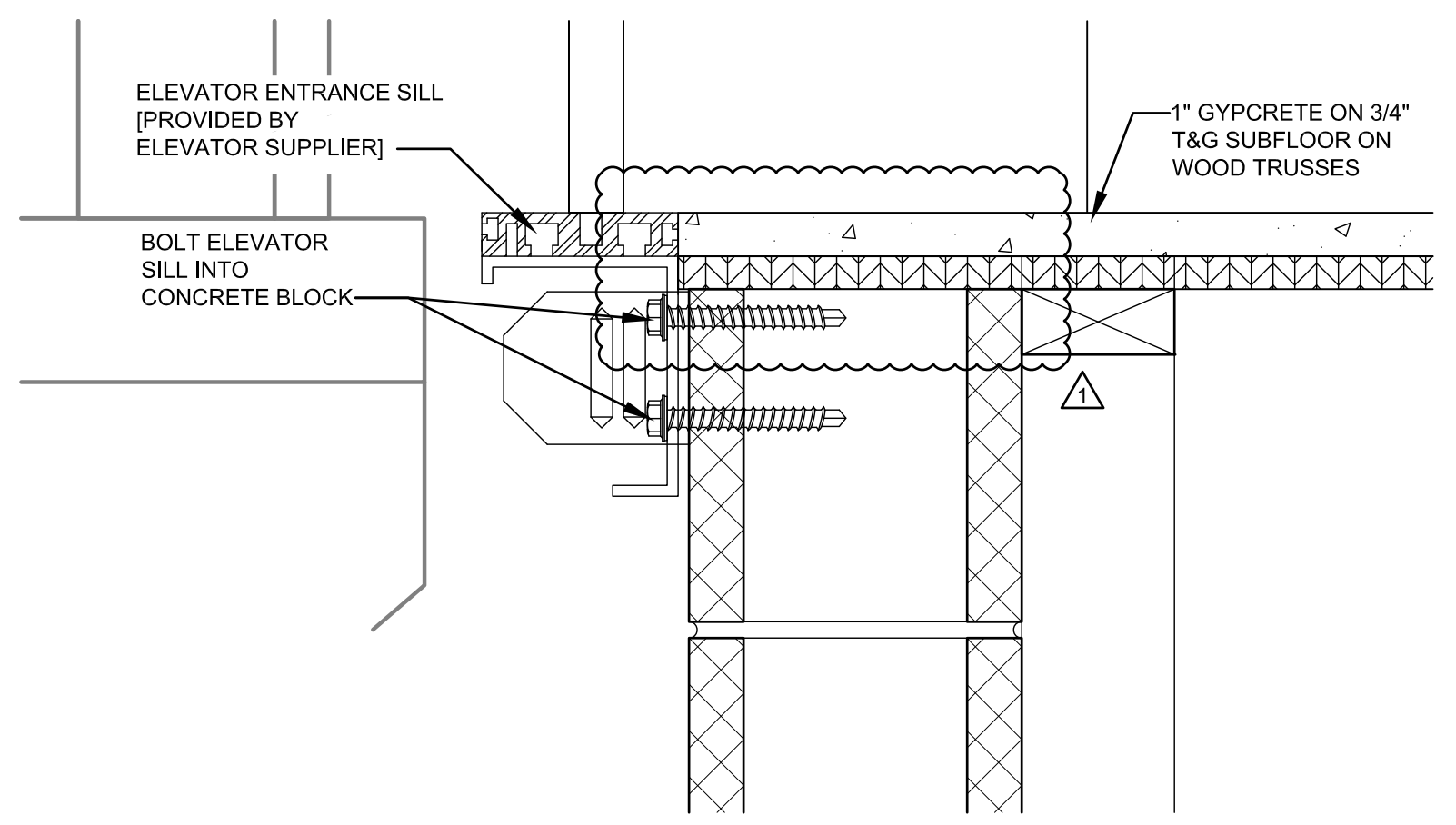
A301
DRAWING NUMBER



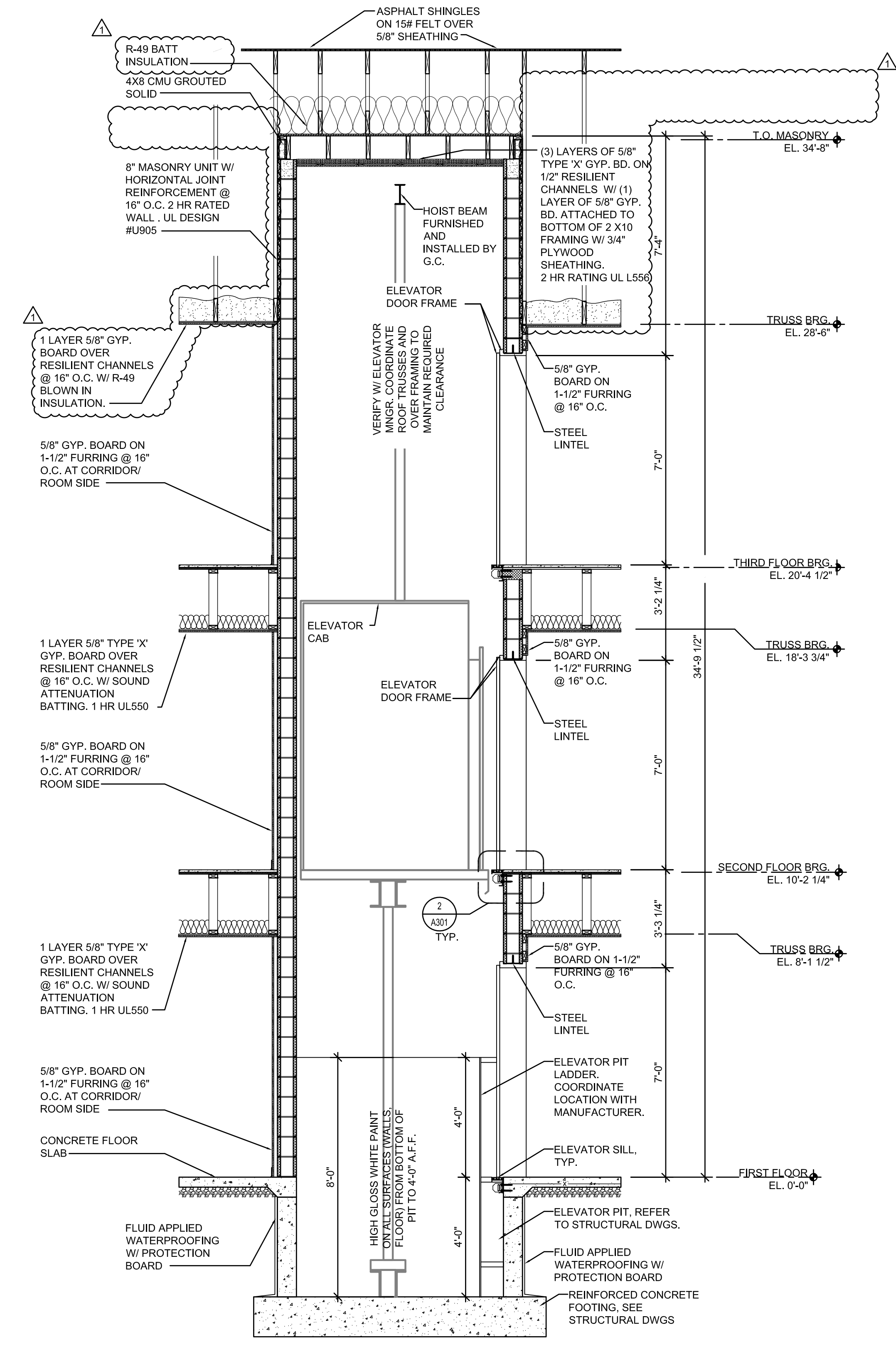
3 TRASH CHUTE SECTION
A301 SCALE: 1/2" = 1'-0"



4 TRASH CHUTE DETAIL
A301 SCALE: 1 1/2" = 1'-0"

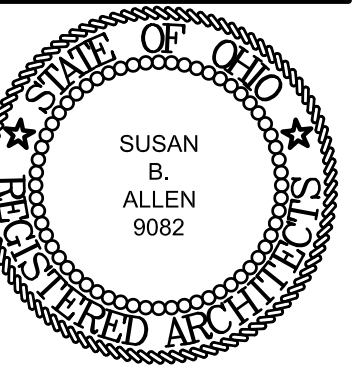


2 ELEVATOR DETAIL
A301 SCALE: 3" = 1'-0"



1 ELEVATOR SECTION
A301 SCALE: 3/8" = 1'-0"

W:\GDPM\Germantown Crossing-82A21\05DWgs\3CDA300 Stair Elev.dwg Jul 18, 2023 - 9:06am



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STAIR PLANS & DETAILS
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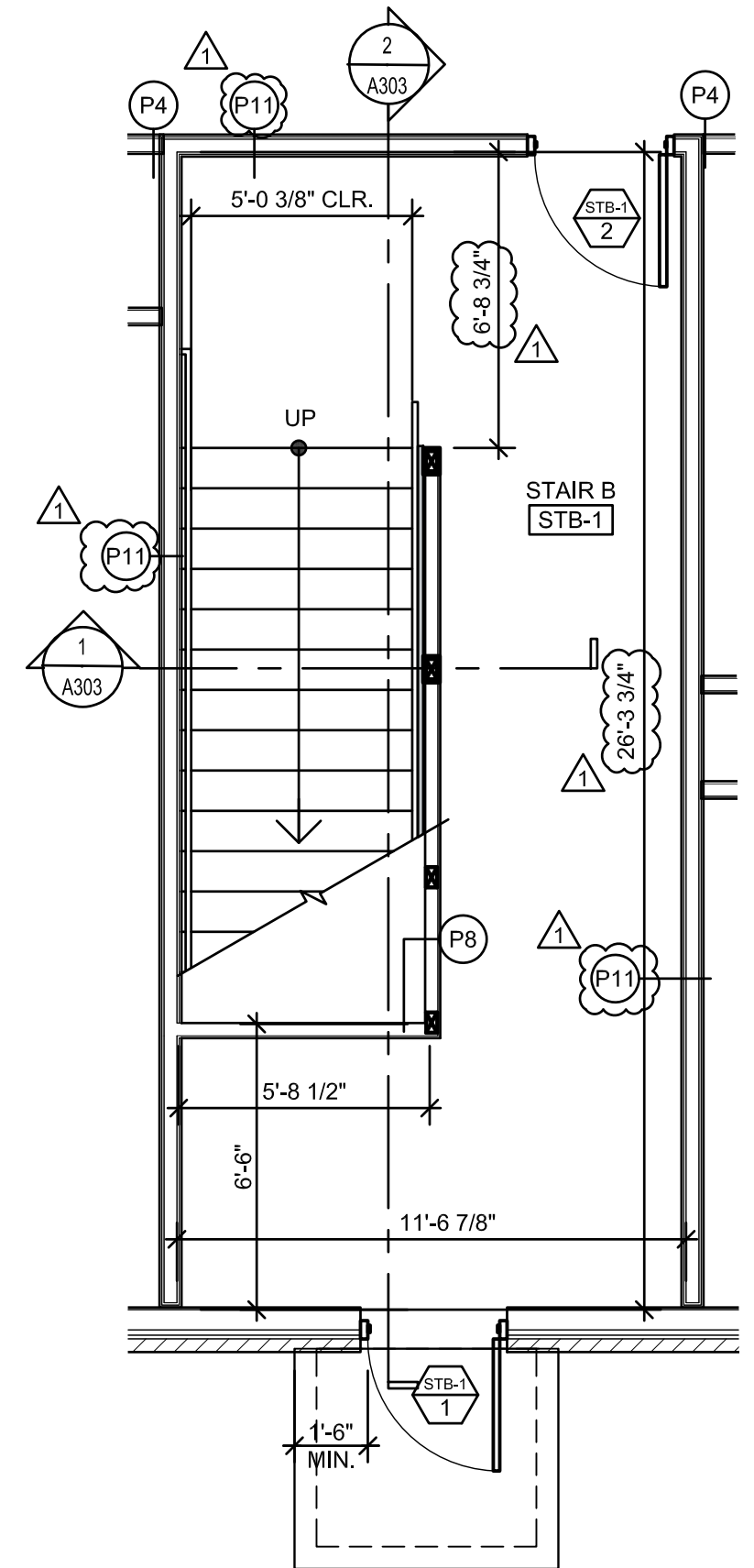
DATE

82A21

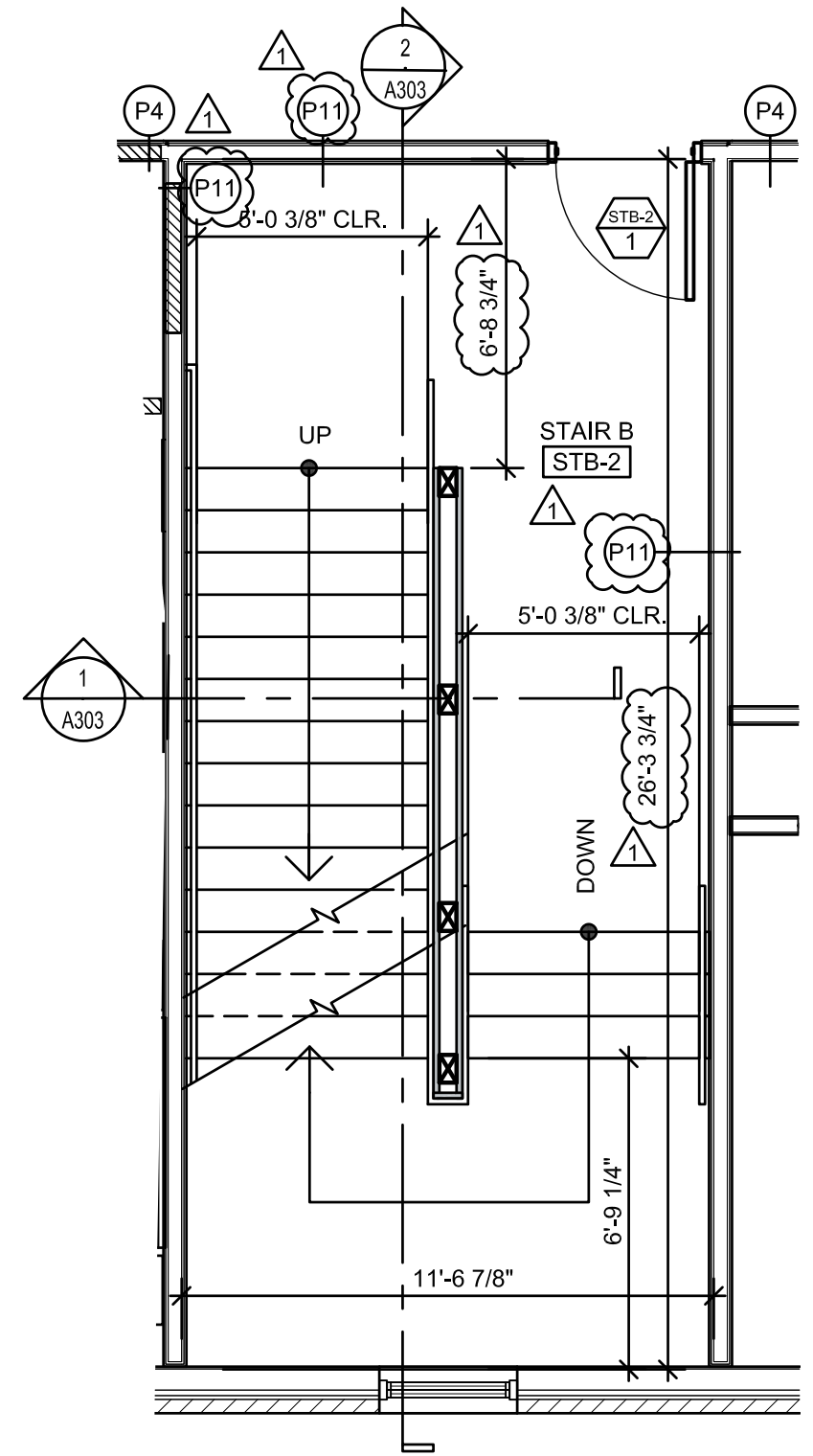
PROJECT NUMBER

A302

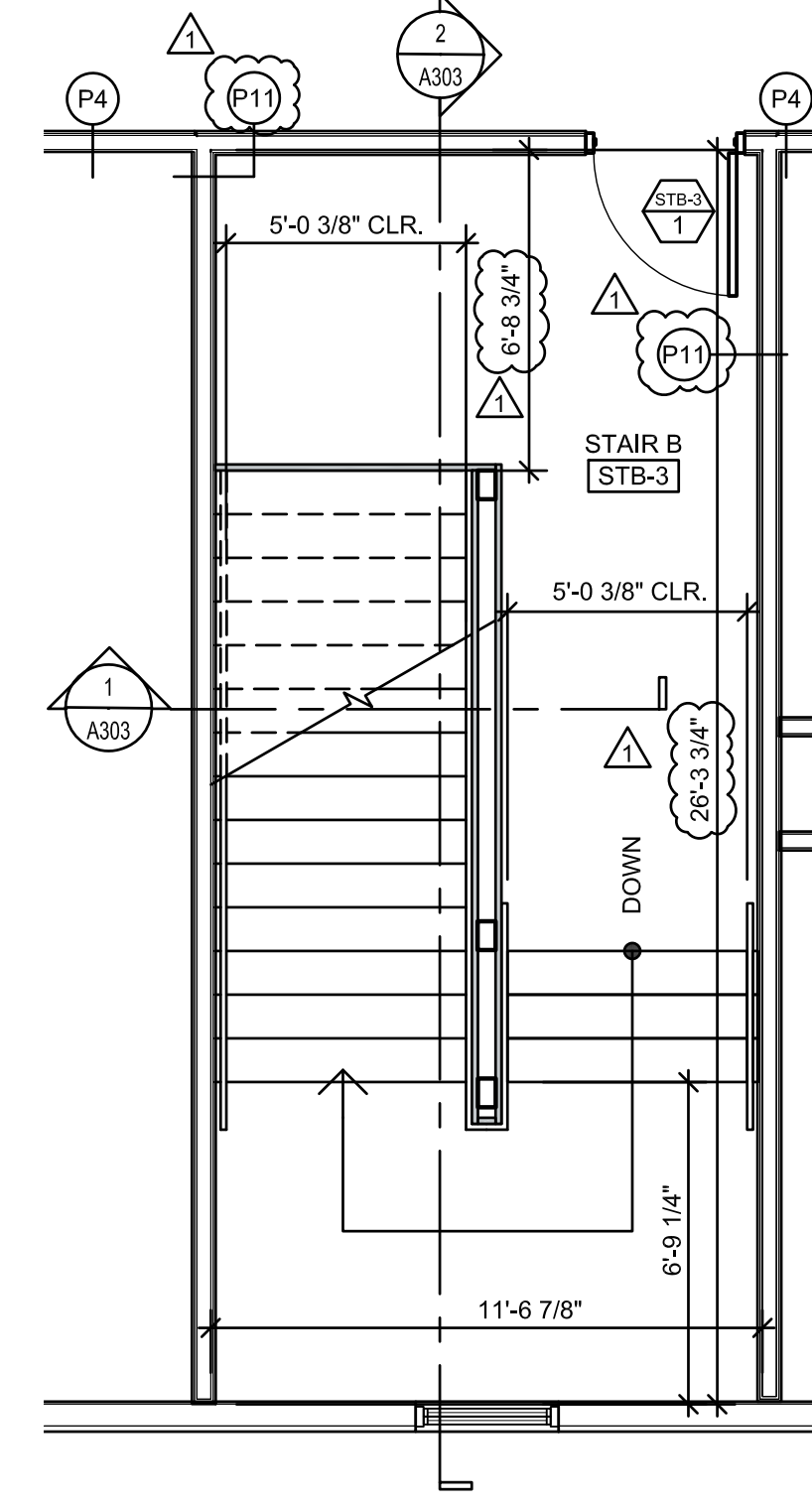
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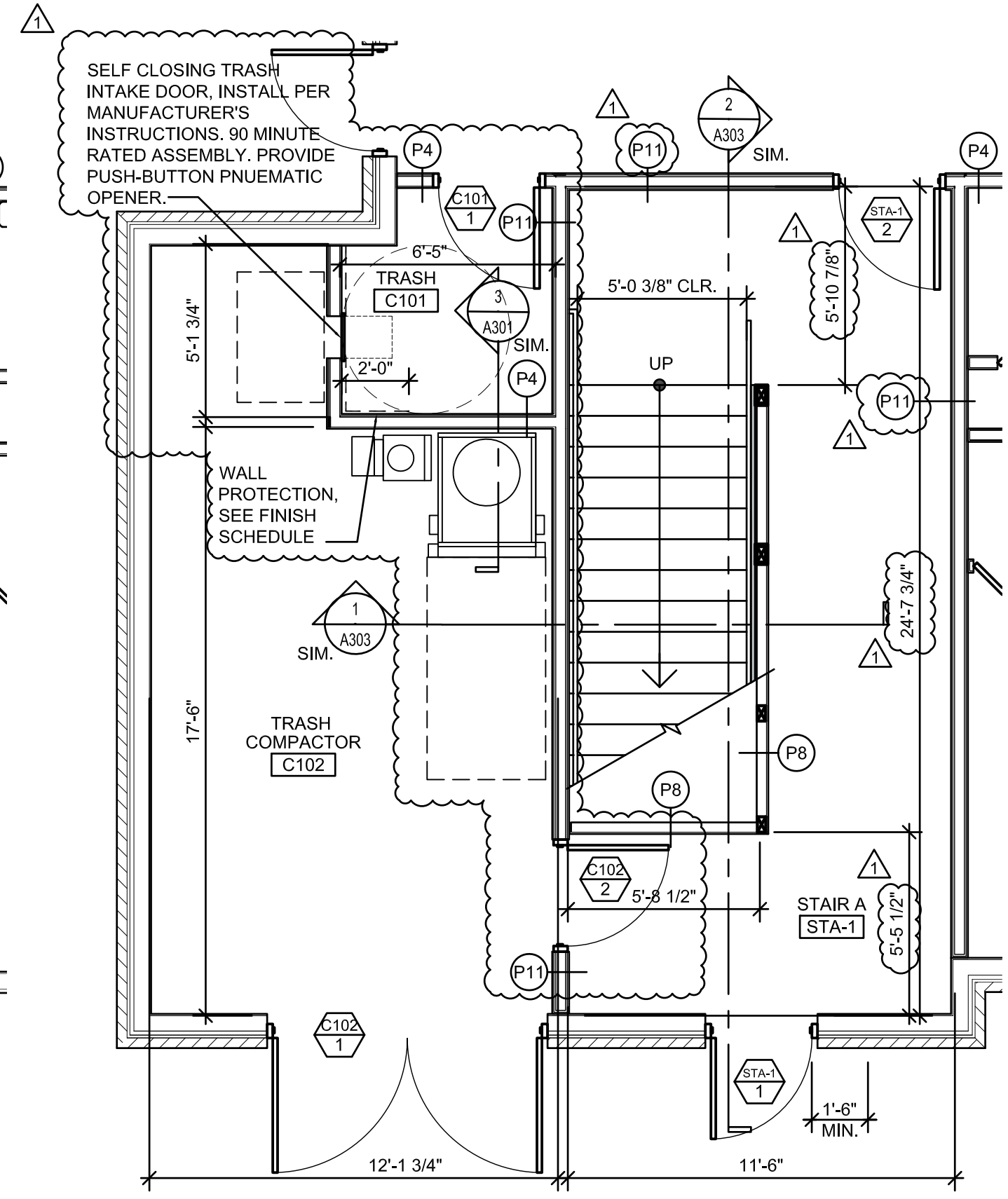
4 1st FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



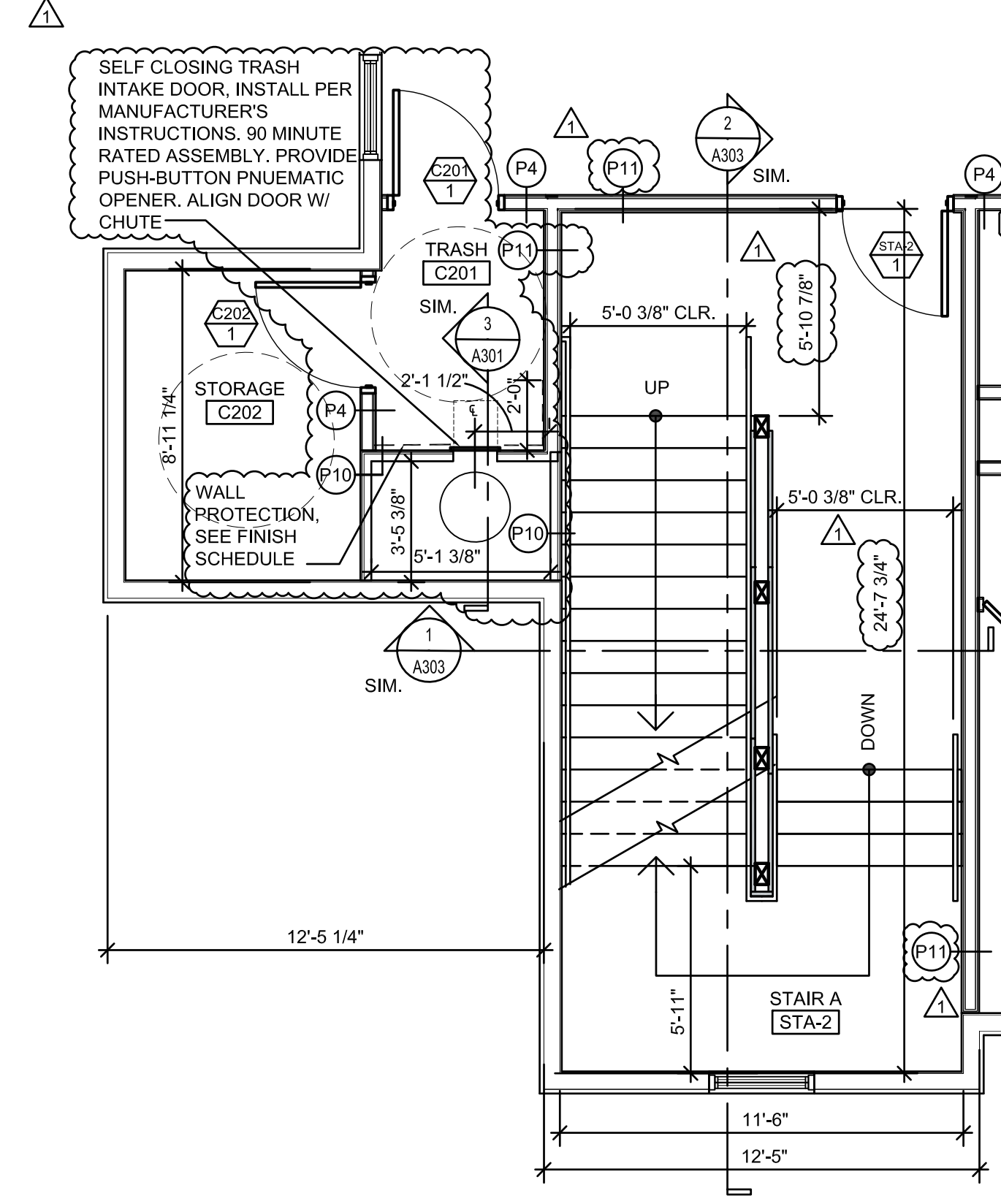
5 2nd FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



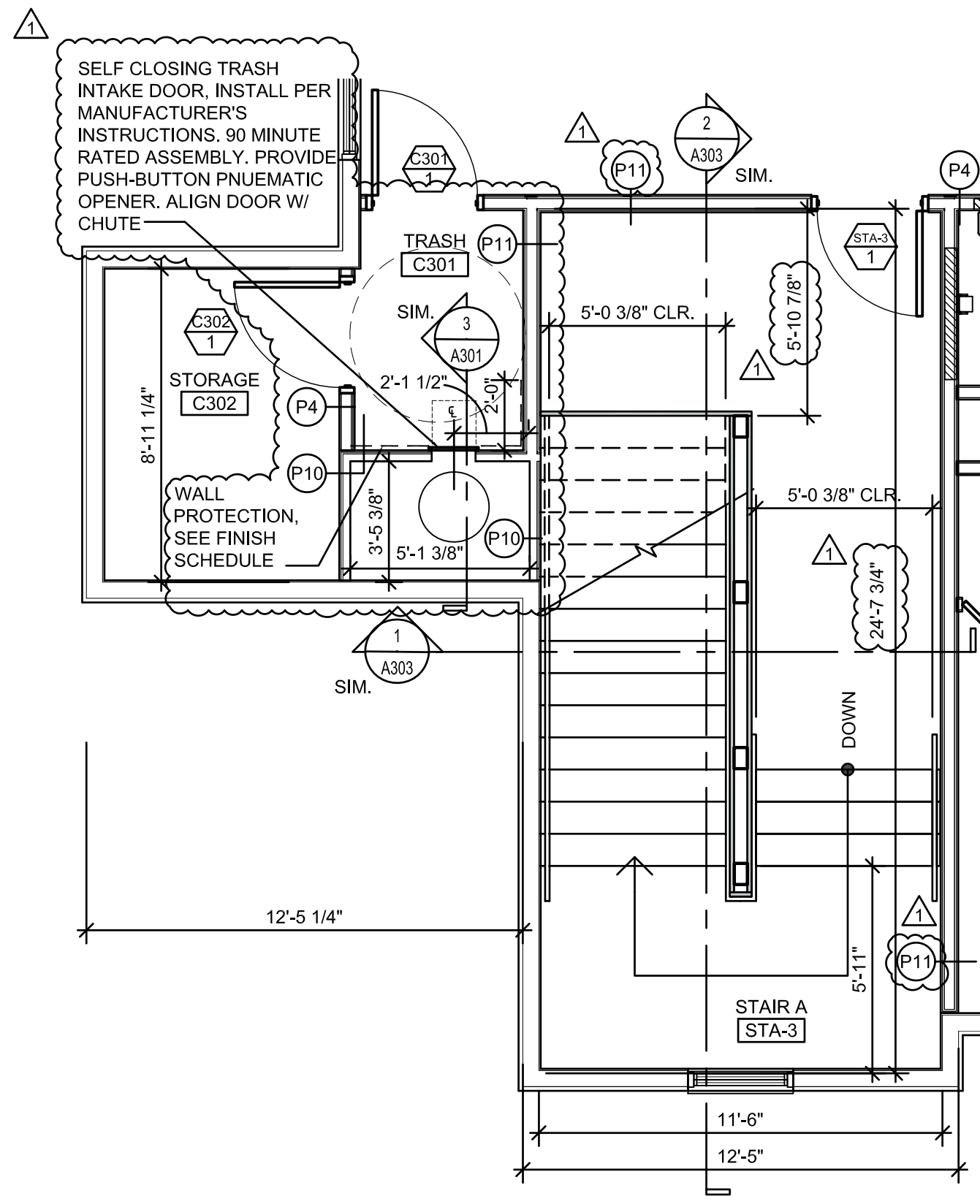
6 3rd FLOOR STAIR B PLAN
A302 SCALE: 1/4" = 1'-0"



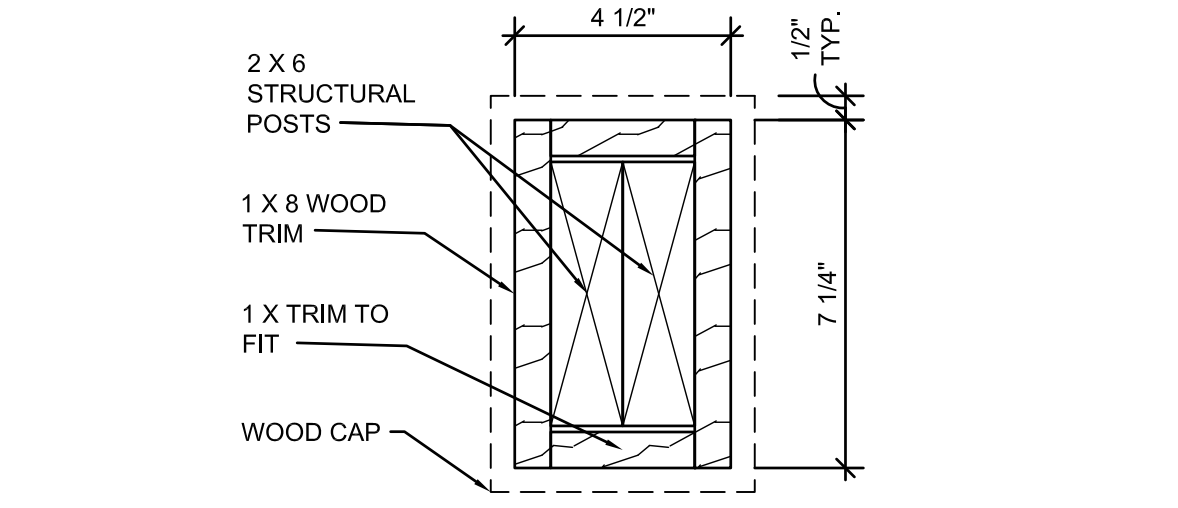
1 1st FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



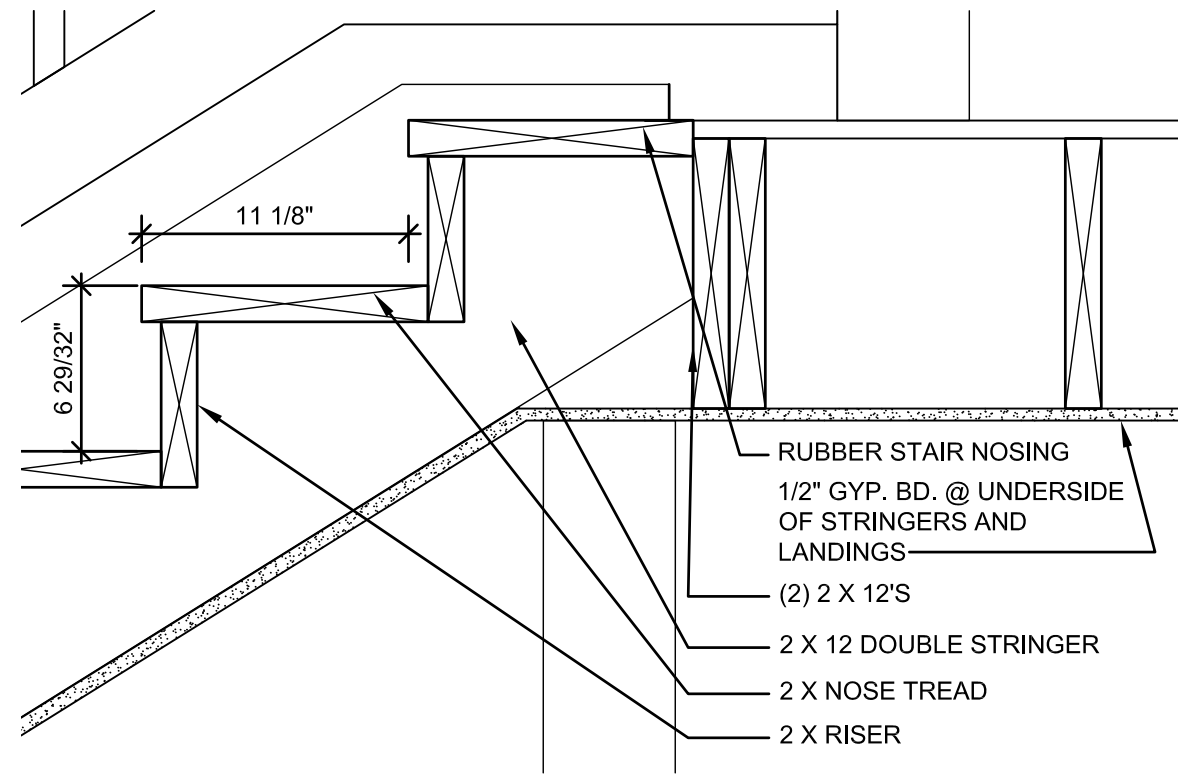
2 2nd FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



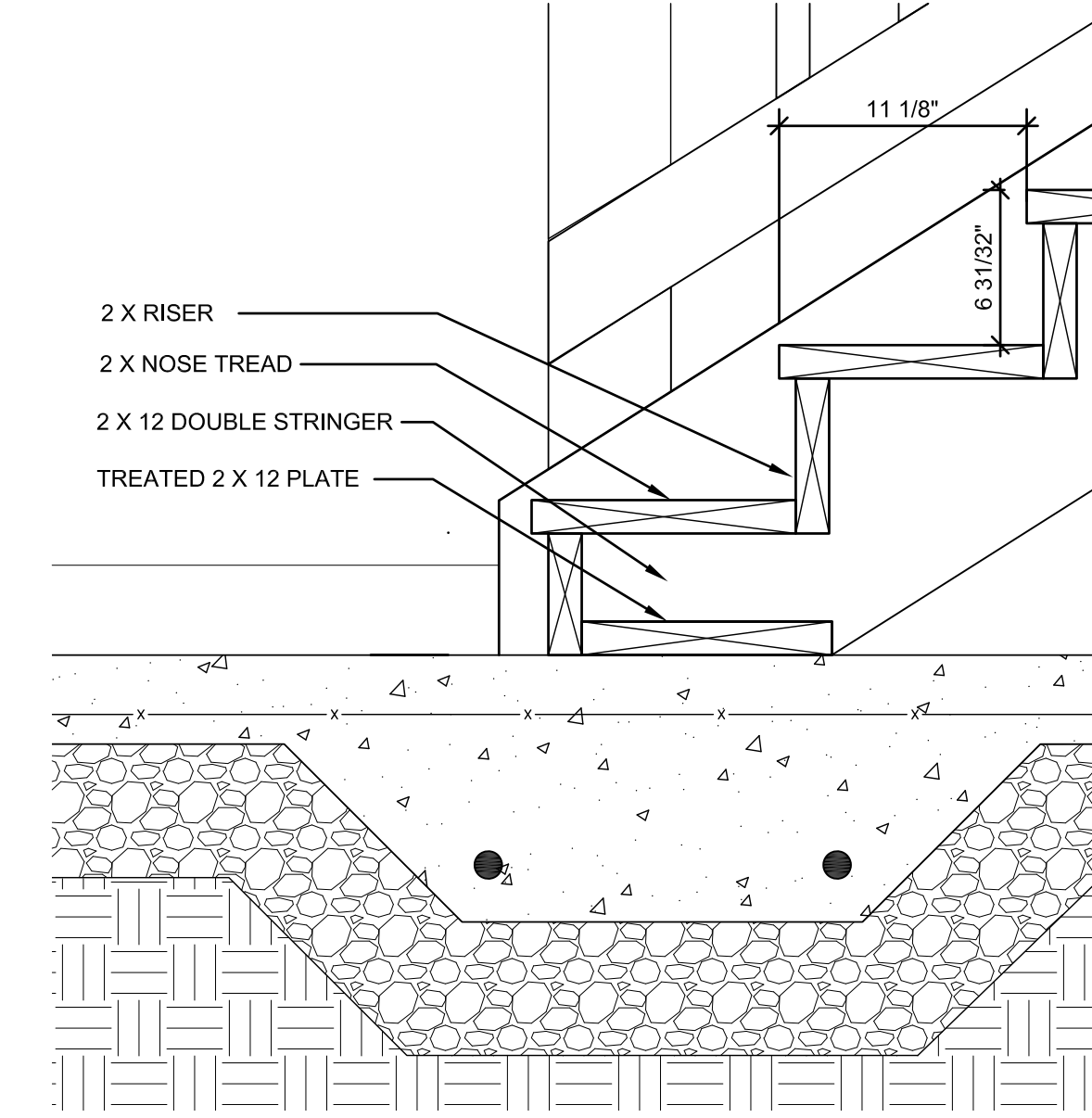
3 3rd FLOOR STAIR A PLAN
A302 SCALE: 1/4" = 1'-0"



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

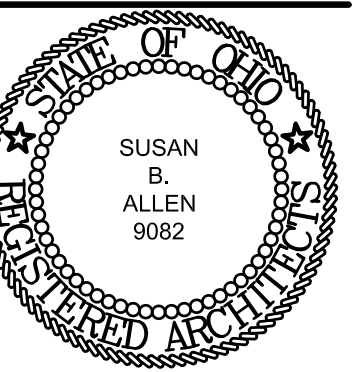


8 STAIR TOP DETAIL
A302 SCALE: 1 1/2" = 1'-0"



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

W:\GDFM\Germantown Crossing-82A21\05Dwg\3CDVA300 Stair Elev.dwg Jul 07, 2023 - 11:29am



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STAIR SECTIONS
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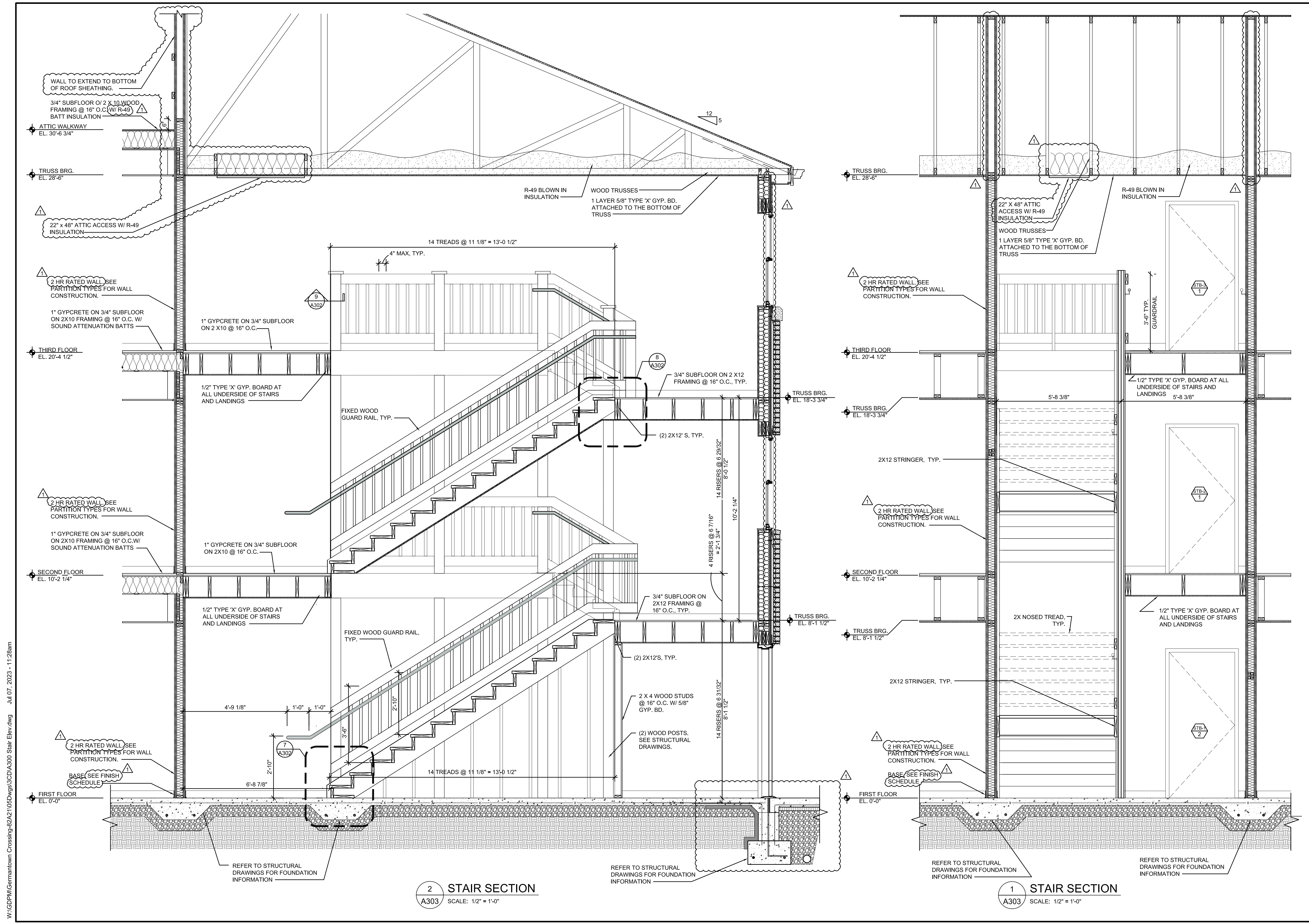
DATE

82A21

PROJECT NUMBER

A303

DRAWING NUMBER



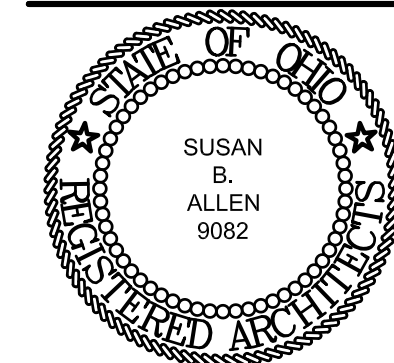
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2 STAIR SECTION
A303 SCALE: 1/2" = 1'-0"

1 STAIR SECTION
A303 SCALE: 1/2" = 1'-0"

GENERAL NOTES

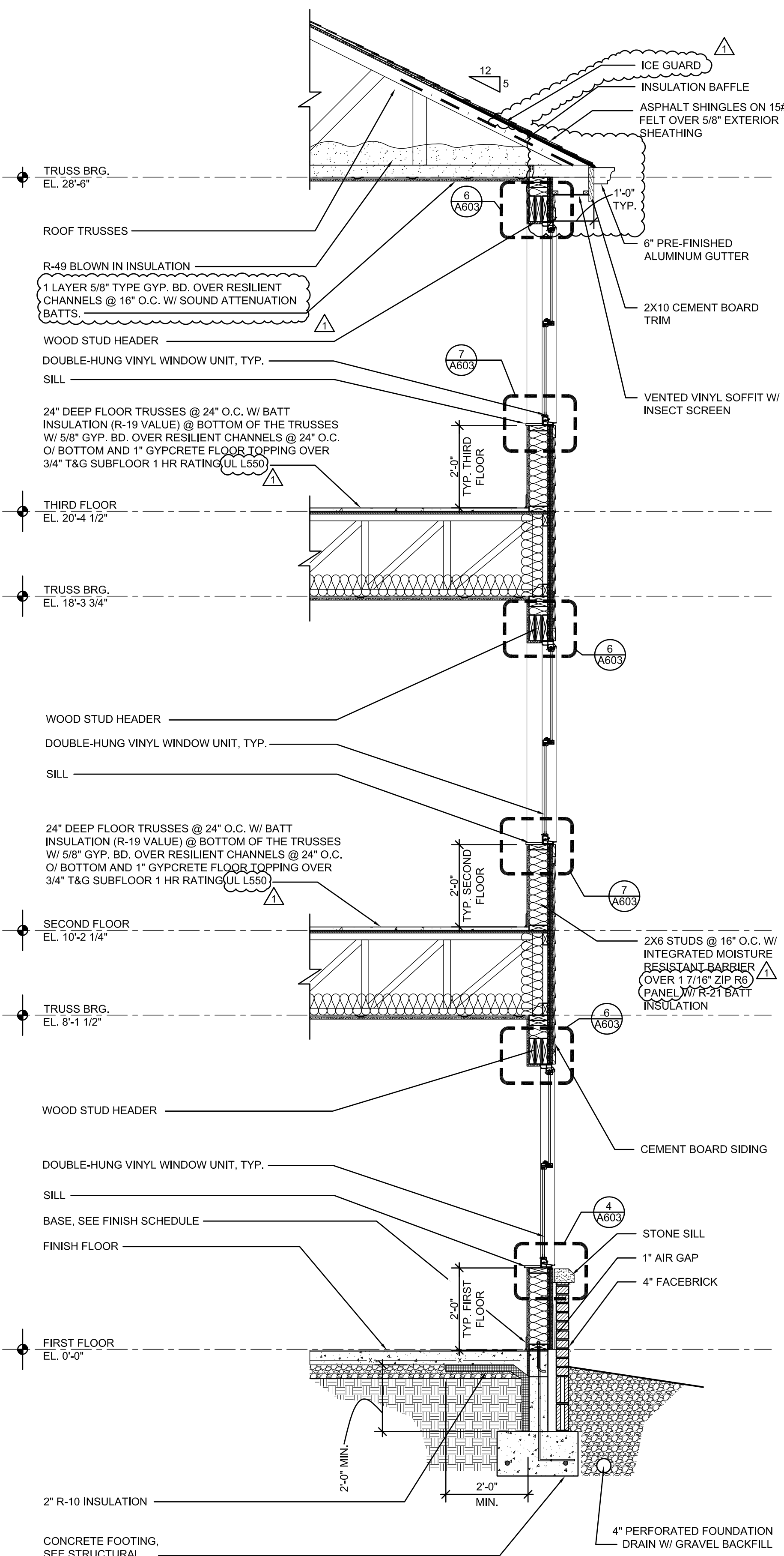
- ALL GUTTERS ARE TO HAVE LEAF GUARDS.



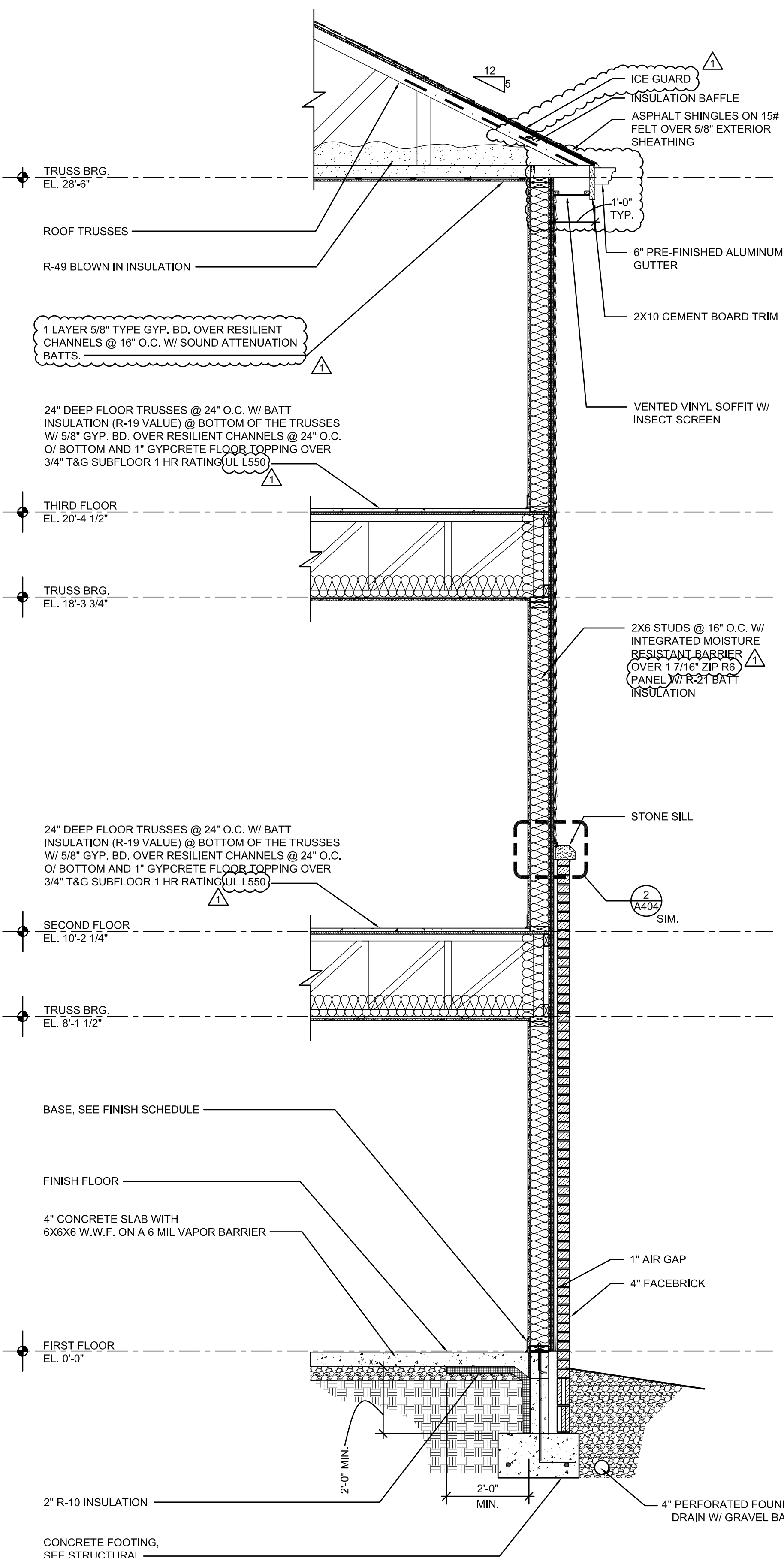
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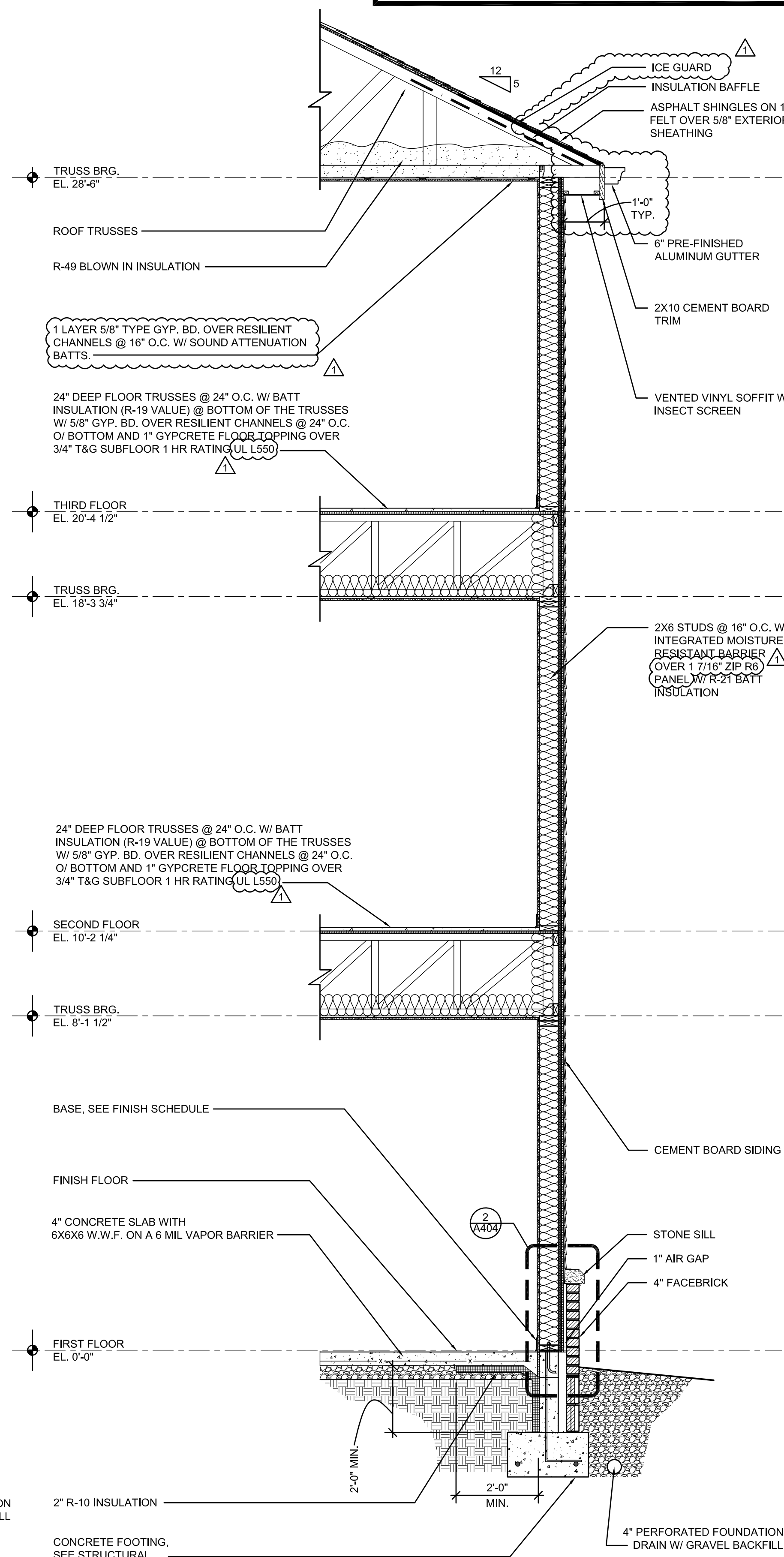
- BULLETIN 01 07/17/2023



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\05Dwg\3CD\A401_A402.dwg Jul 11, 2023 - 3:29pm

WALL SECTIONS
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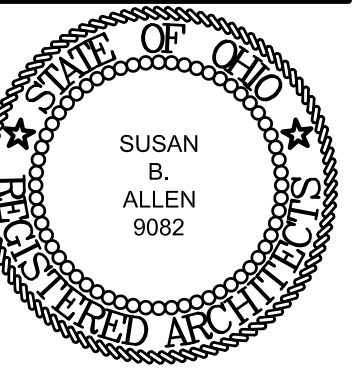
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82A21

PROJECT NUMBER

A401
DRAWING NUMBER



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WALL SECTIONS & TOWER DETAILS

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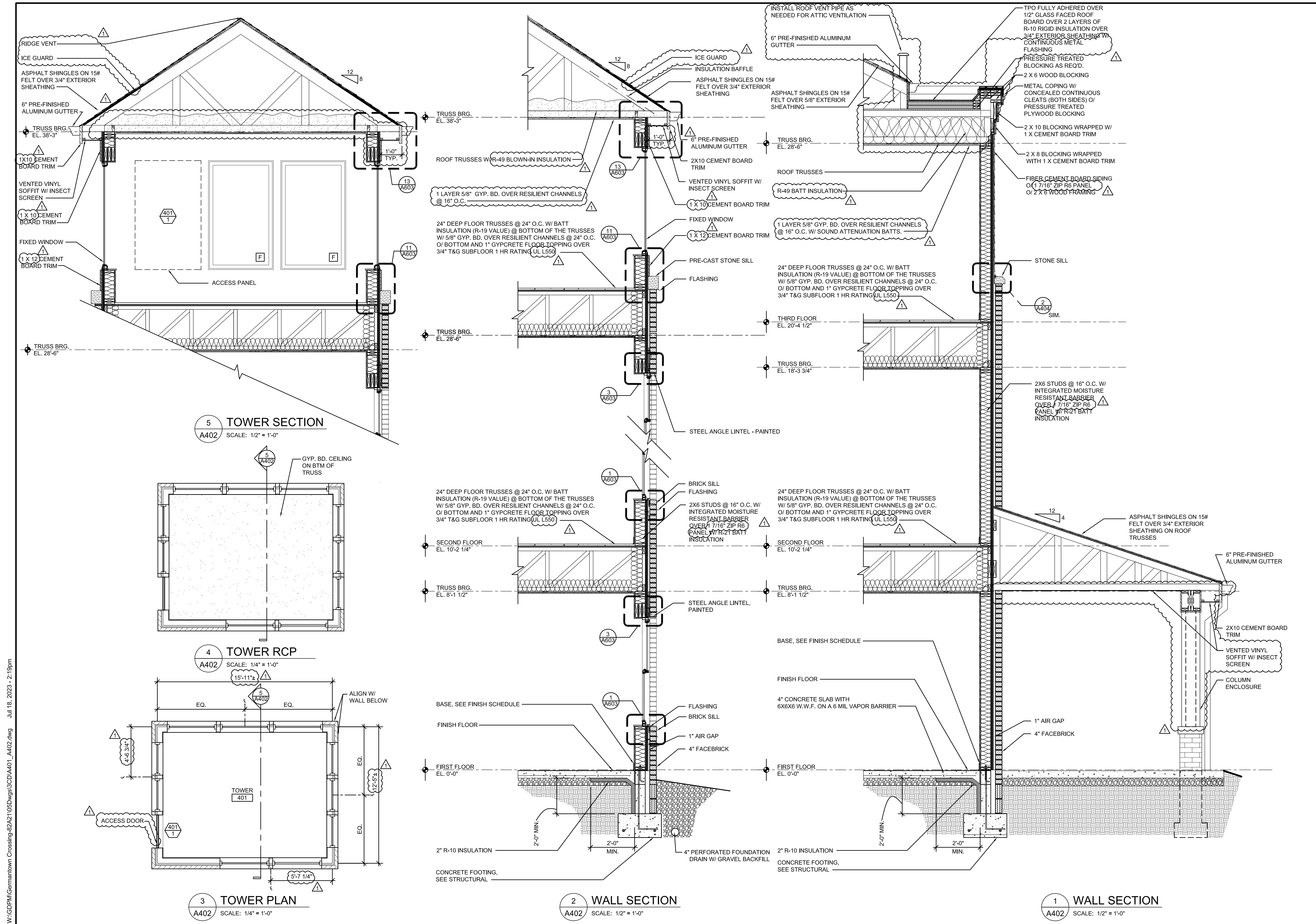
DATE

82A21

PROJECT NUMBER

A402

DRAWING NUMBER



5 TOWER SECTION
A402 SCALE: 1/2" = 1'-0"

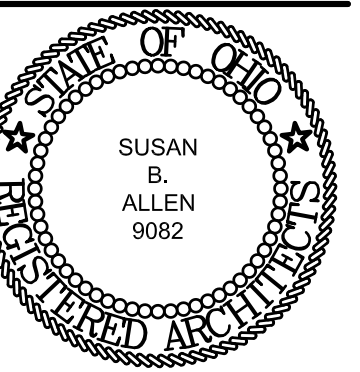
4 TOWER RCP
A402 SCALE: 1/4" = 1'-0"

3 TOWER PLAN
A402 SCALE: 1/4" = 1'-0"

2 WALL SECTION
A402 SCALE: 1/2" = 1'-0"

1 WALL SECTION
A402 SCALE: 1/2" = 1'-0"

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WALL SECTIONS & DETAILS
GERMANTOWN CROSSING
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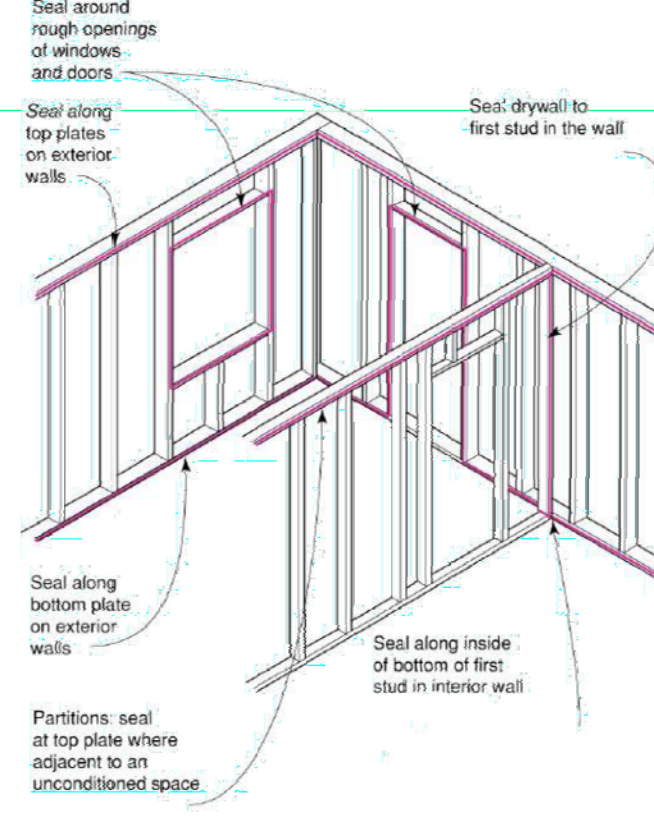
82A21
PROJECT NUMBER

PROJECT NUMBER

A403
DRAWING NUMBER

General Air Sealing Recommendations for Green Programs

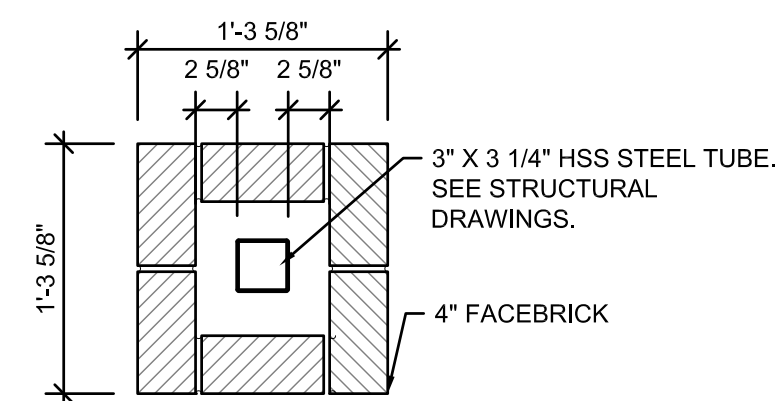
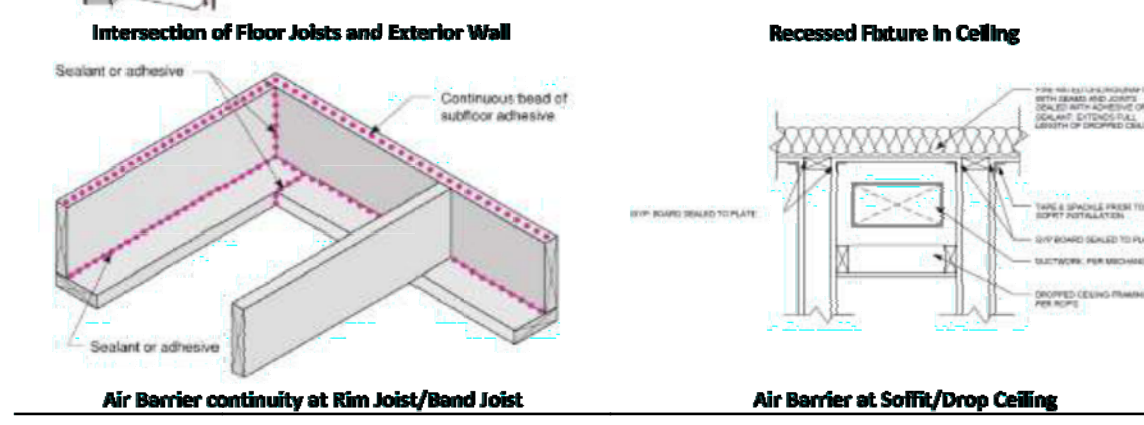
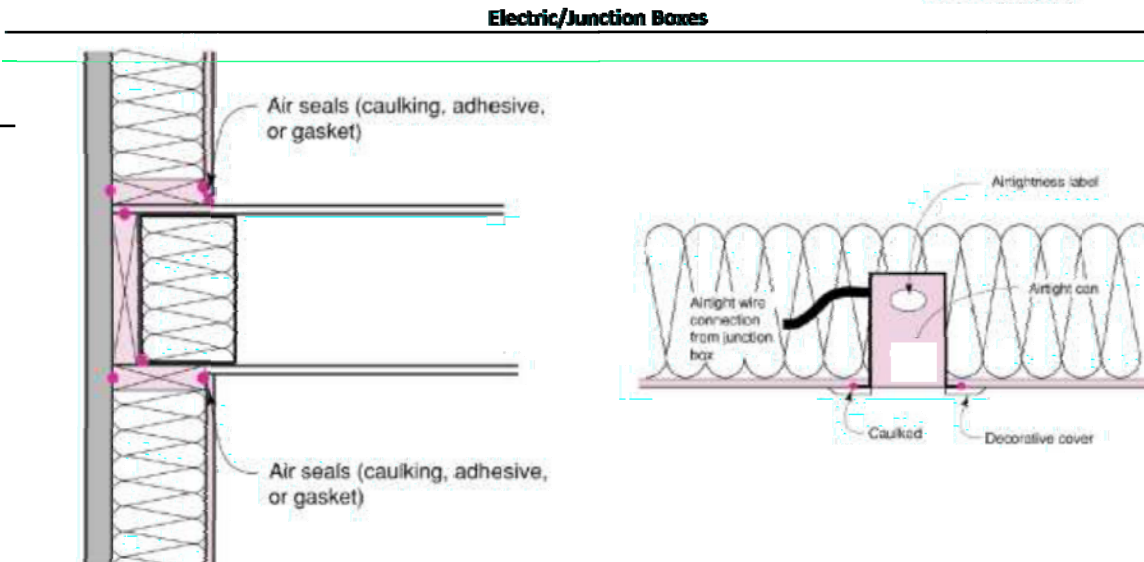
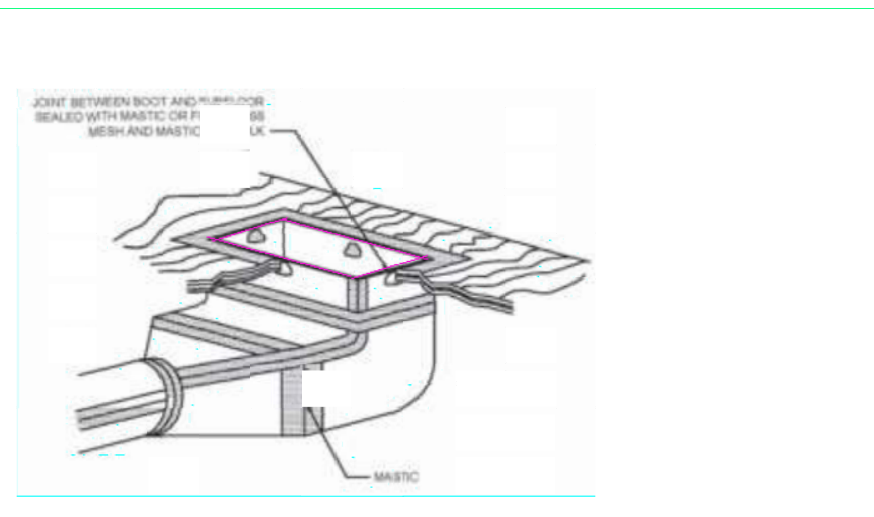
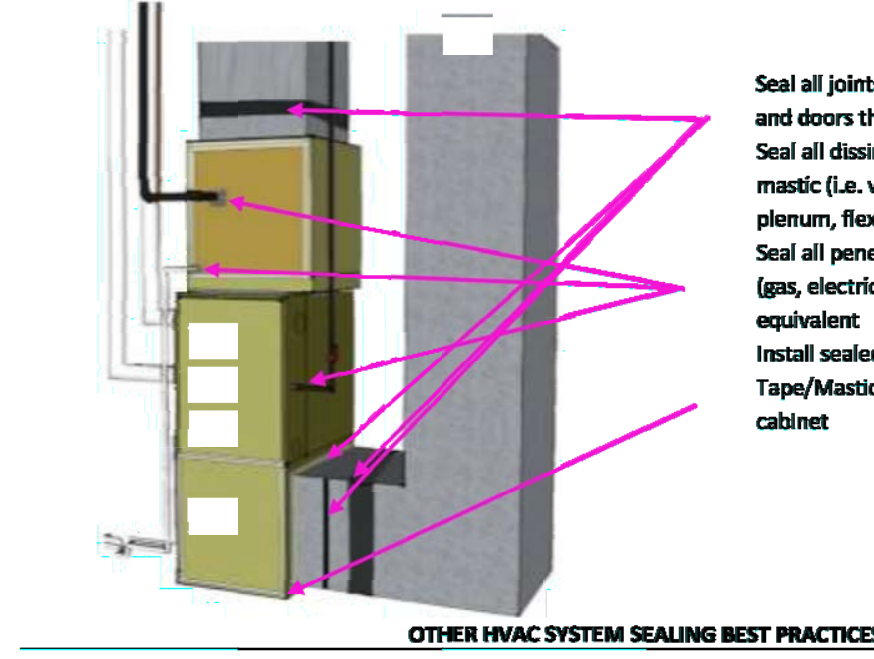
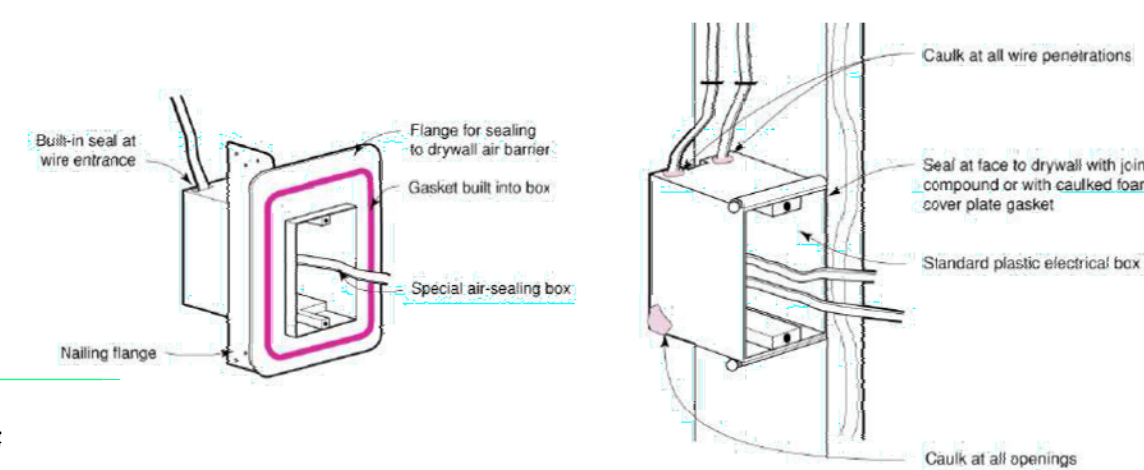
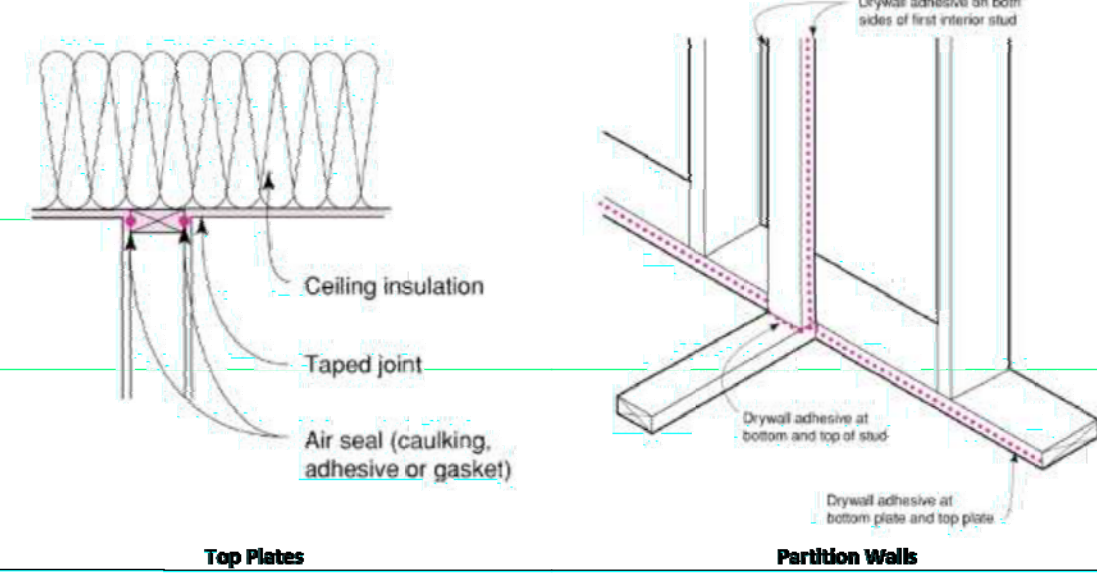
WHOLE UNIT COMPARTMENTALIZATION



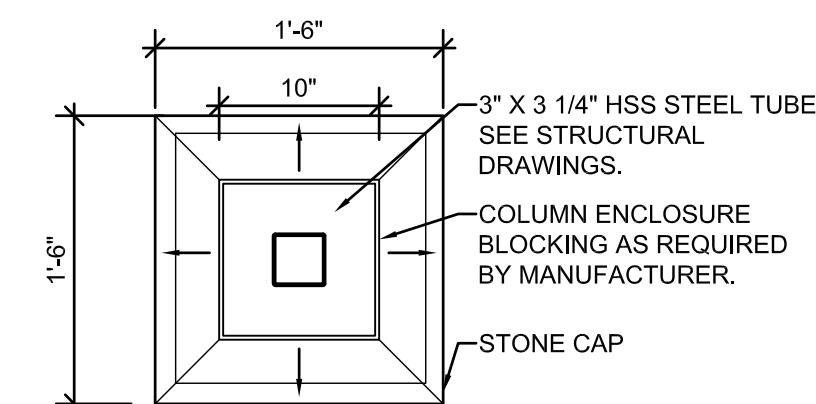
Sealing Perimeter of Drywall Assemblies, AKA - Air Tight Drywall Approach

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:

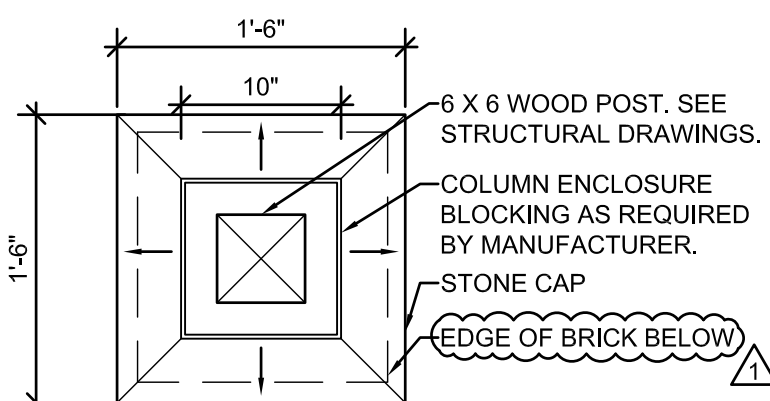
- All exterior wall bottom plates and top plates
- All top plates at insulated ceilings
- Rough opening perimeters
- Both sides of the first interior stud of partition walls



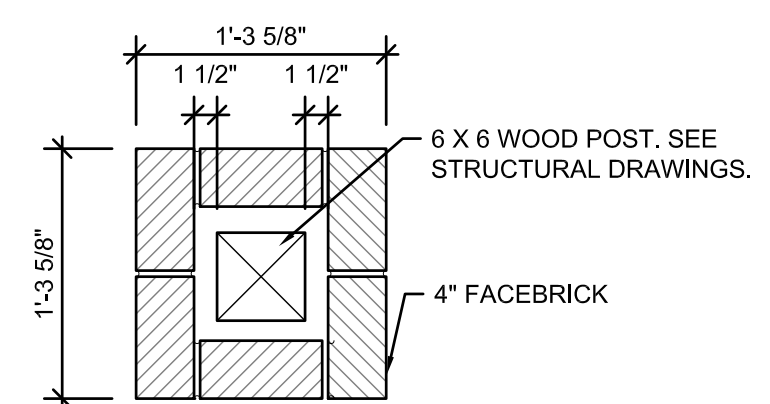
9 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



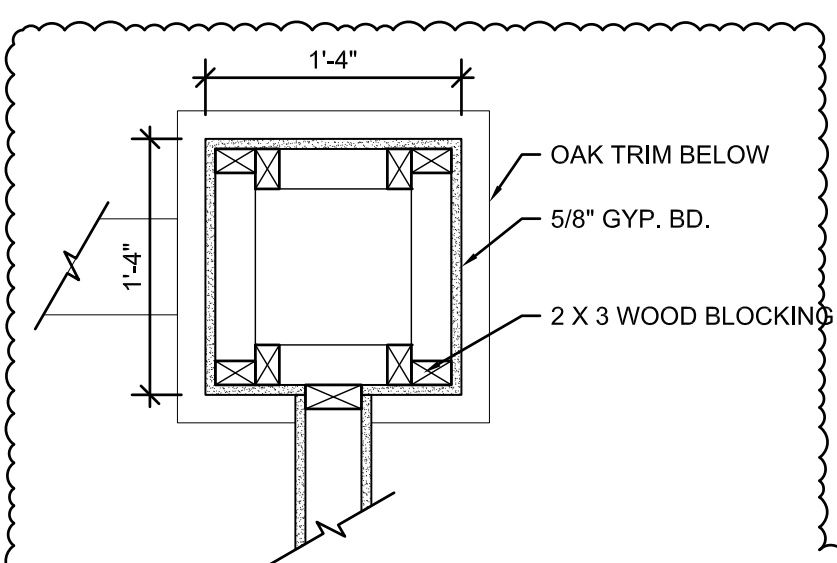
8 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



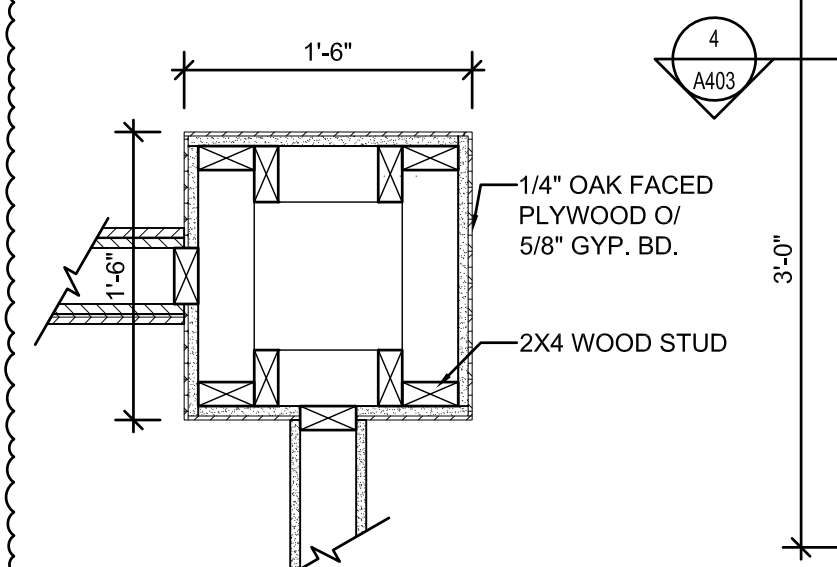
7 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



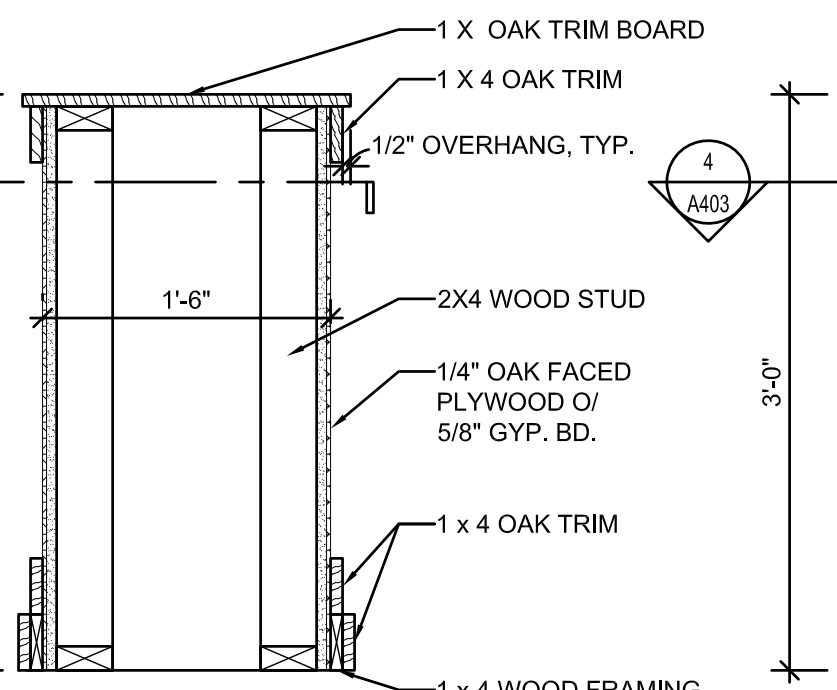
5 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



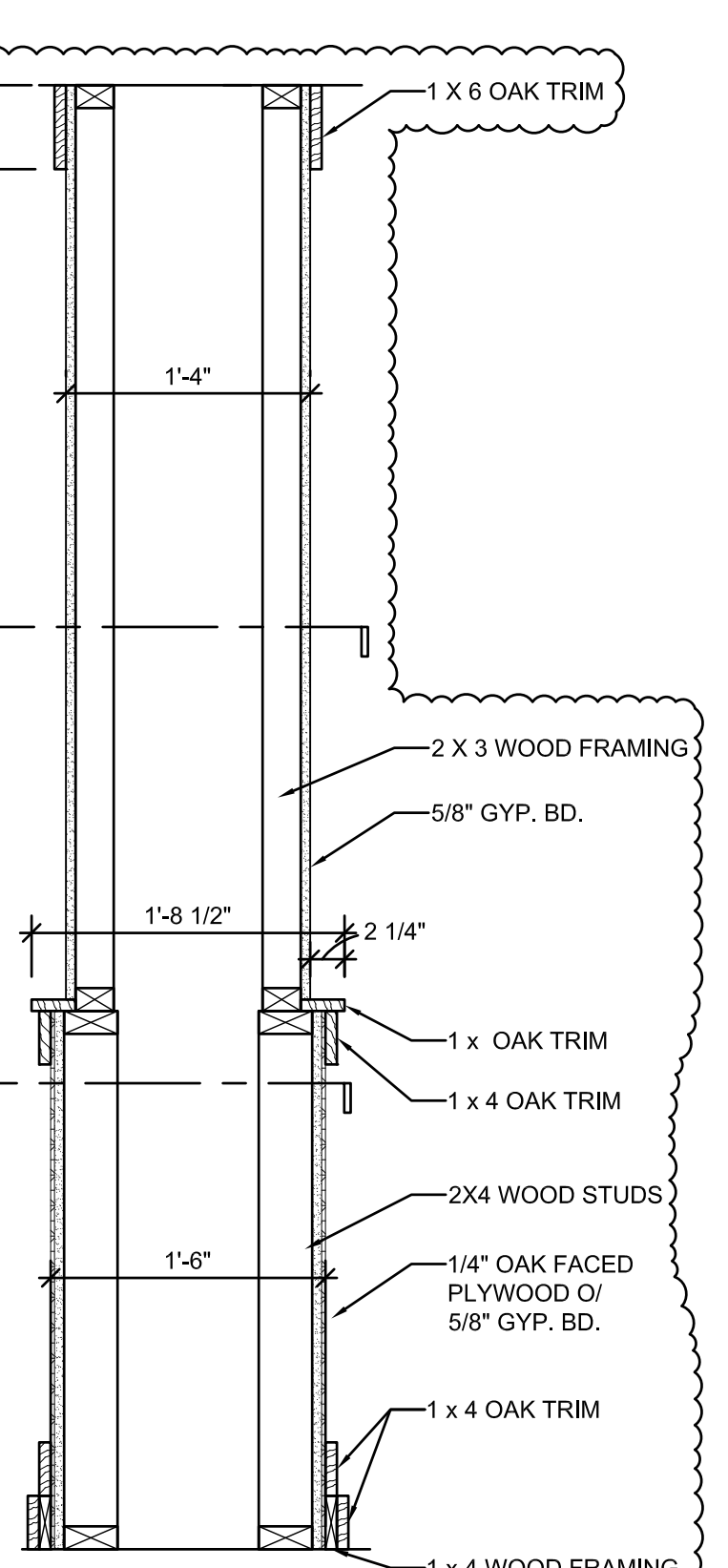
6 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



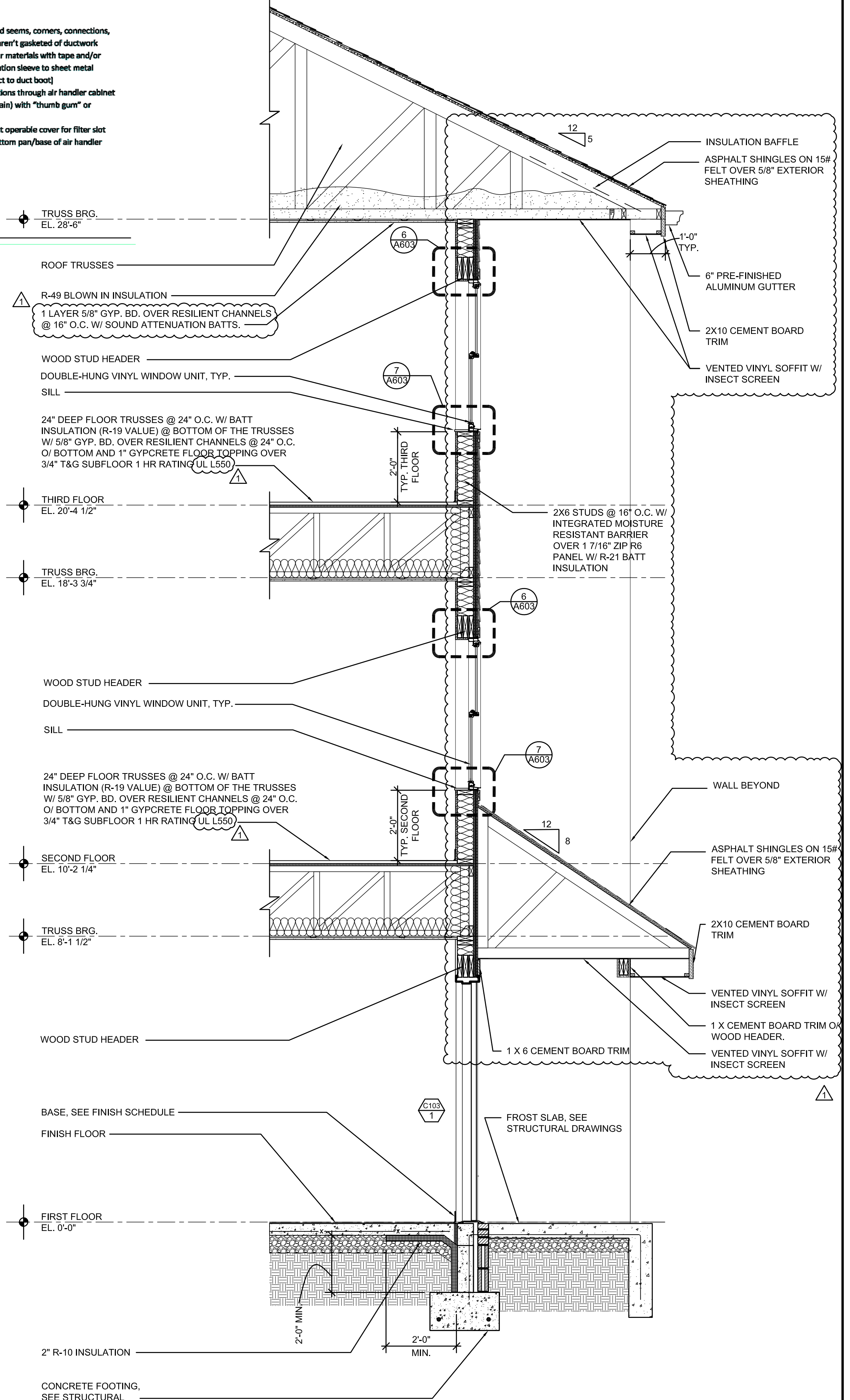
4 COLUMN DETAIL
A403 SCALE: 1" = 1'-0"



3 COLUMN SECTION
A403 SCALE: 1" = 1'-0"

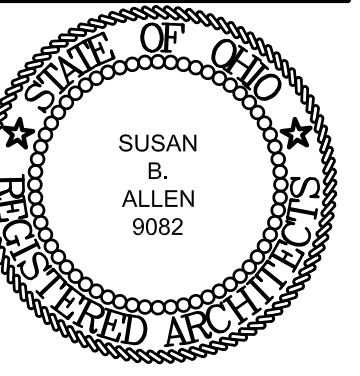


2 COLUMN SECTION
A403 SCALE: 1" = 1'-0"



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

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NO.	DATE	DESCRIPTION

CANOPY & AIR SEAL DETAILS

GERMANTOWN CROSSING
DAYTON OHIO



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03/31/2023

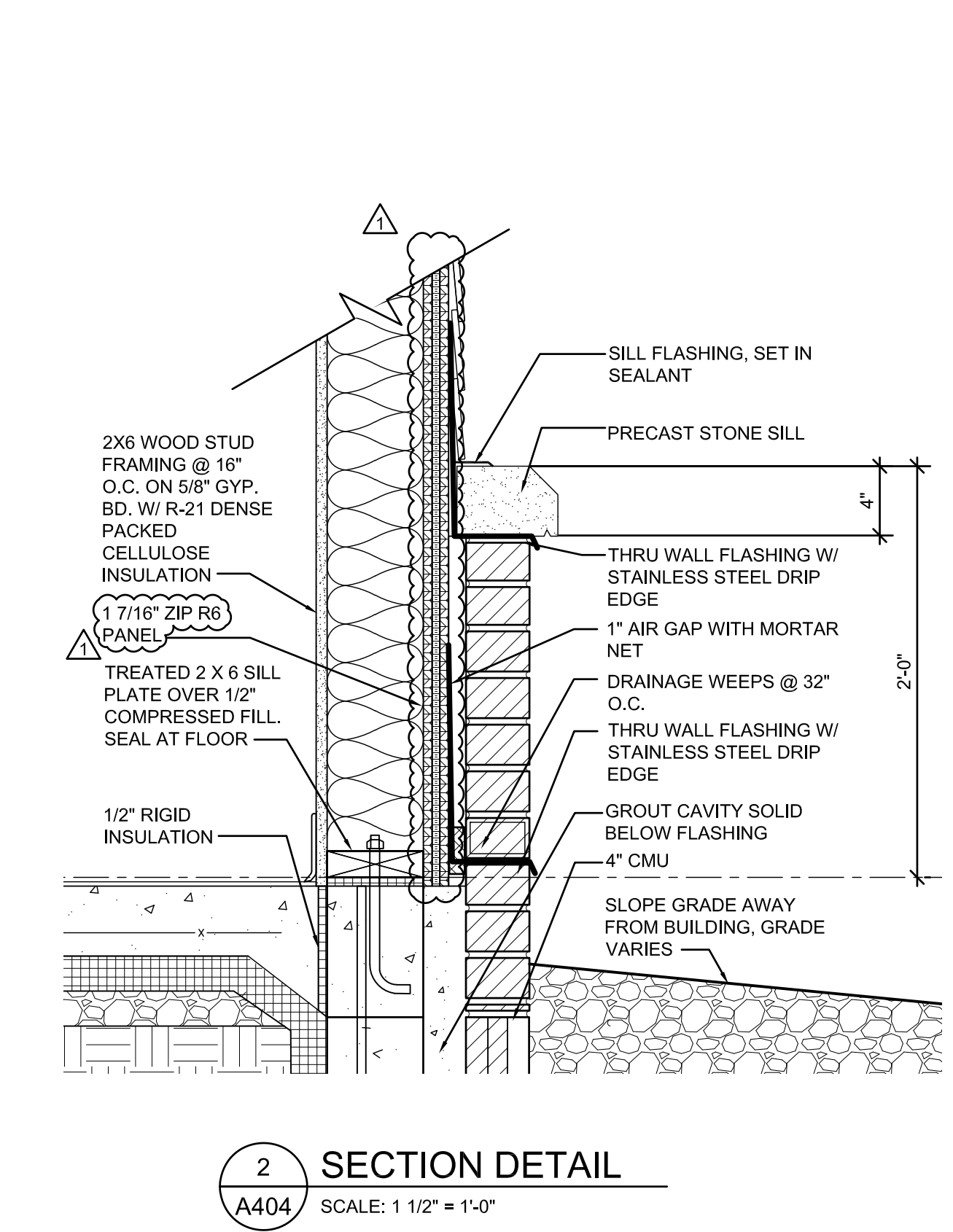
DATE

82A21

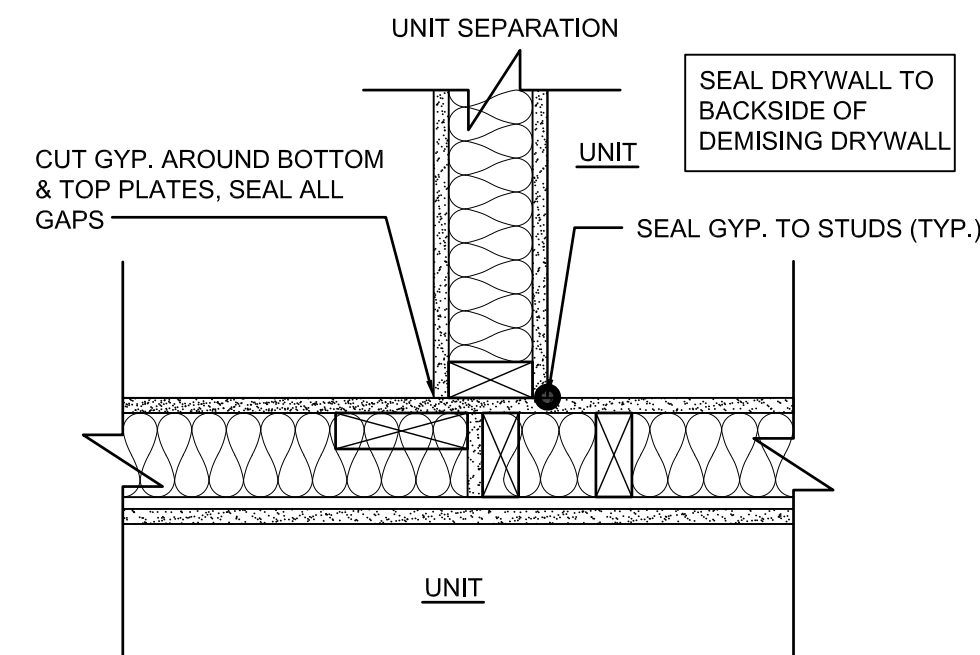
PROJECT NUMBER

A404

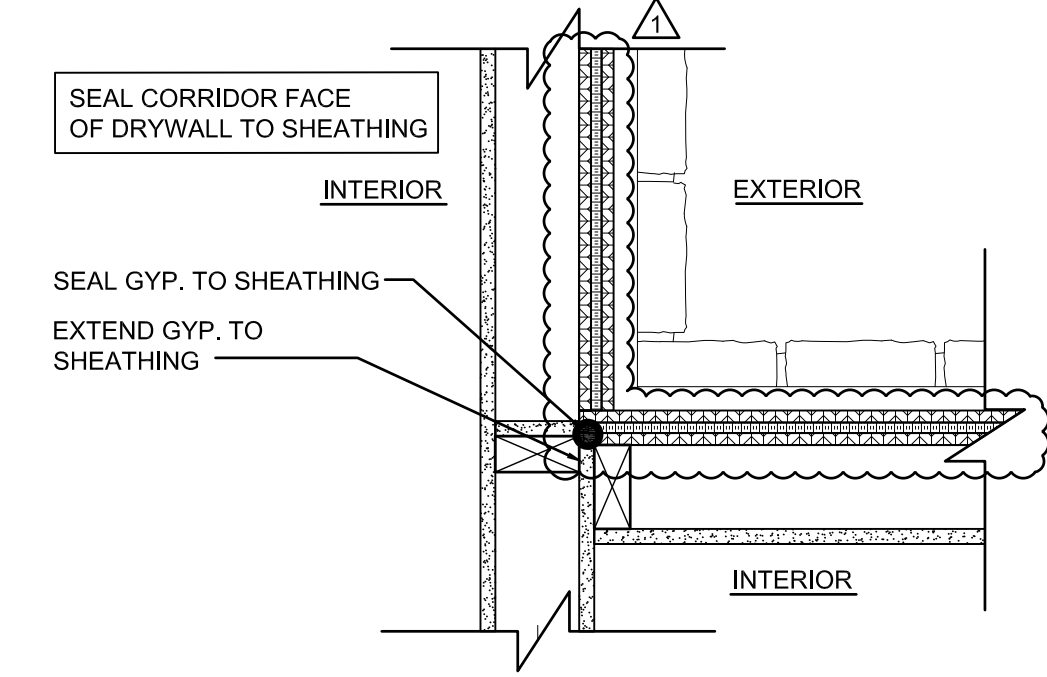
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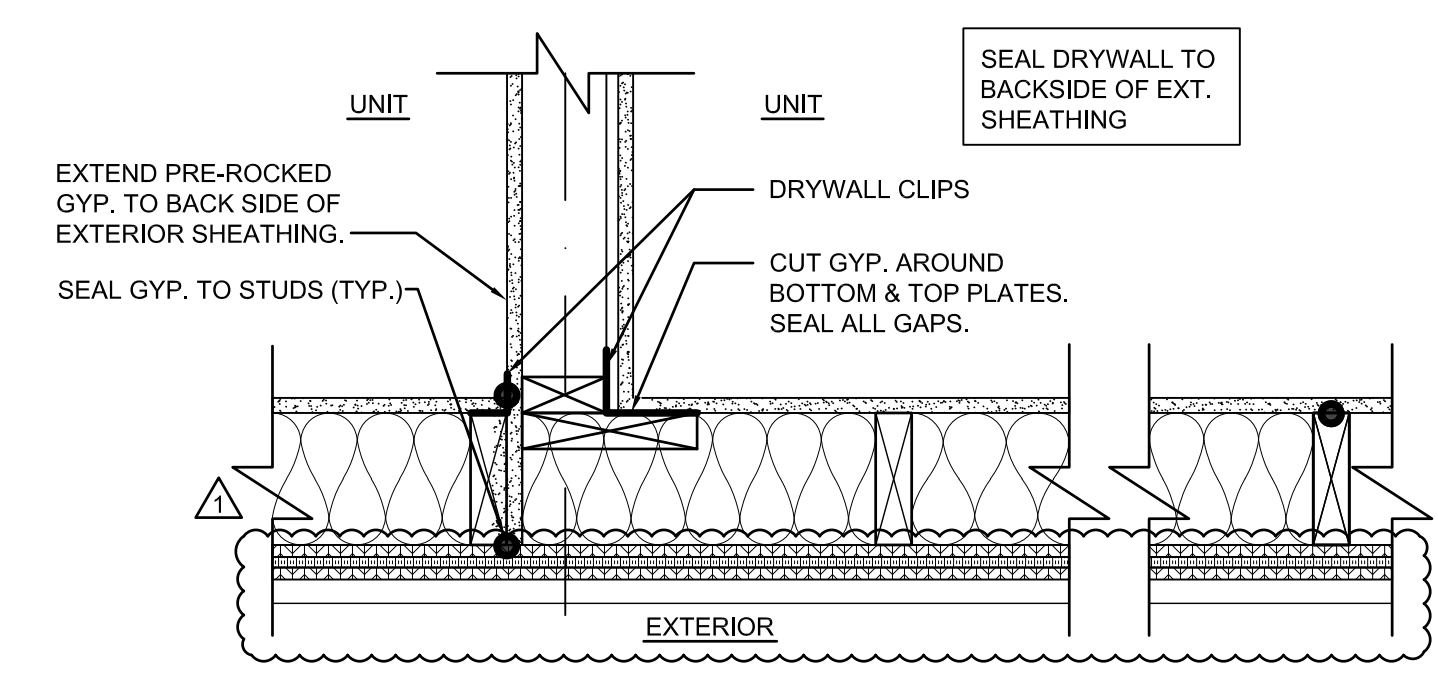
2 SECTION DETAIL
A404 SCALE: 1 1/2" = 1'-0"



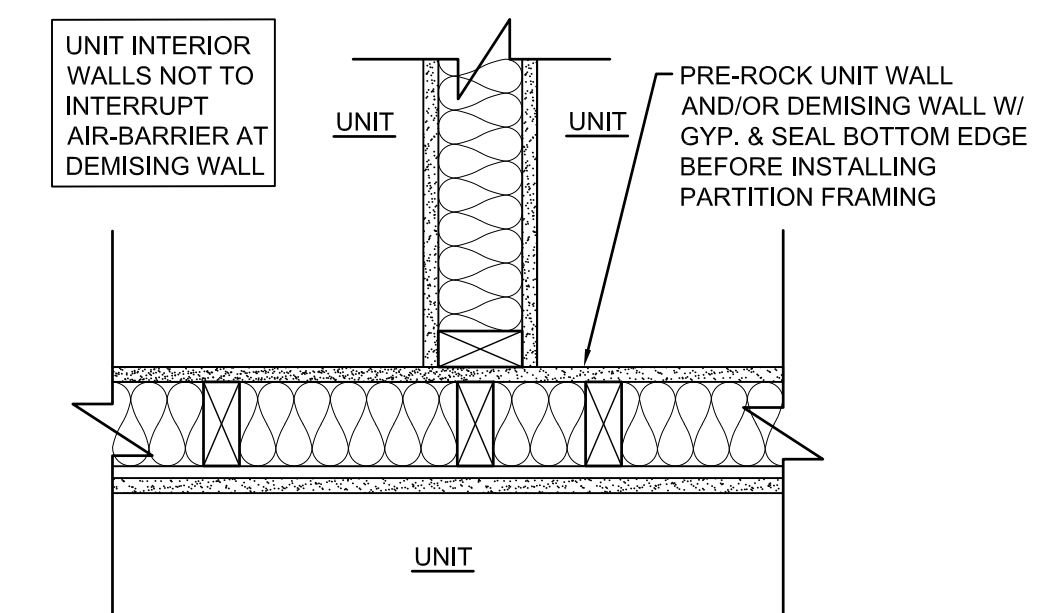
4 AIR BARRIER SECTION @ TYP. UNIT SEPARATION
A404 SCALE: 1 1/2" = 1'-0"



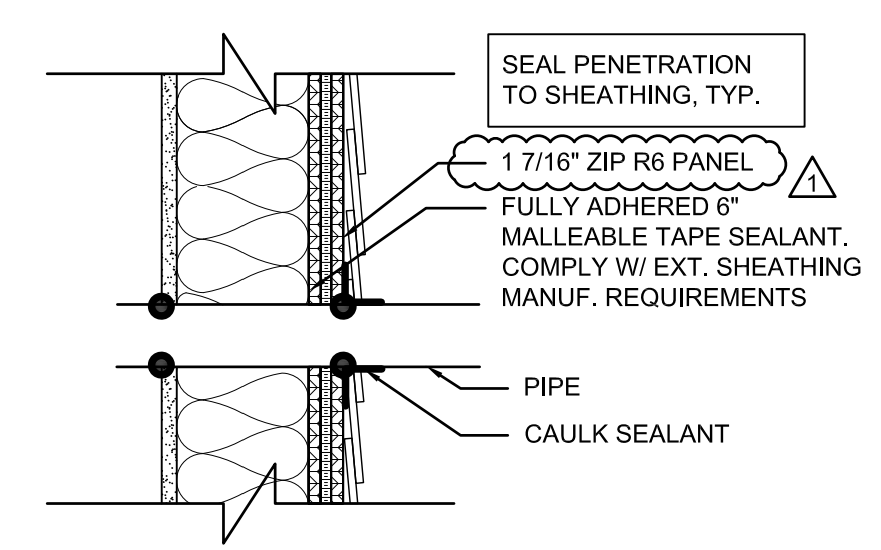
3 AIR BARRIER SECTION @ BRICK TO INTERIOR WALL
A404 SCALE: 1 1/2" = 1'-0"



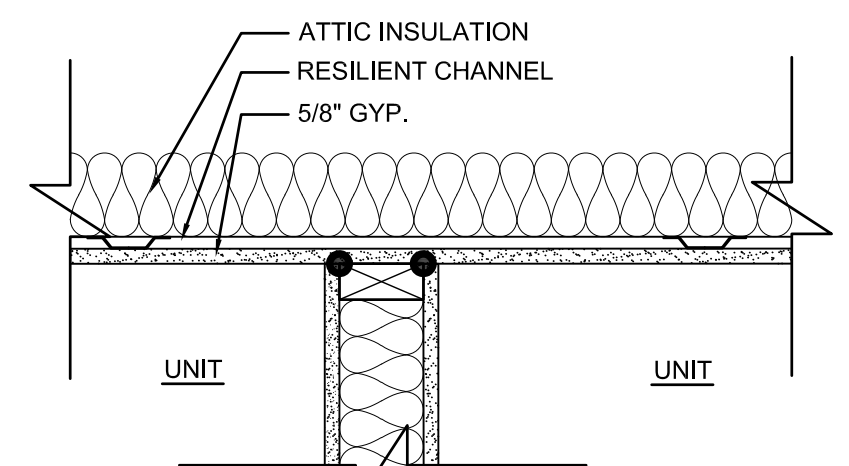
6 AIR BARRIER SECTION @ SIDING TO INTERIOR WALL
A404 SCALE: 1 1/2" = 1'-0"



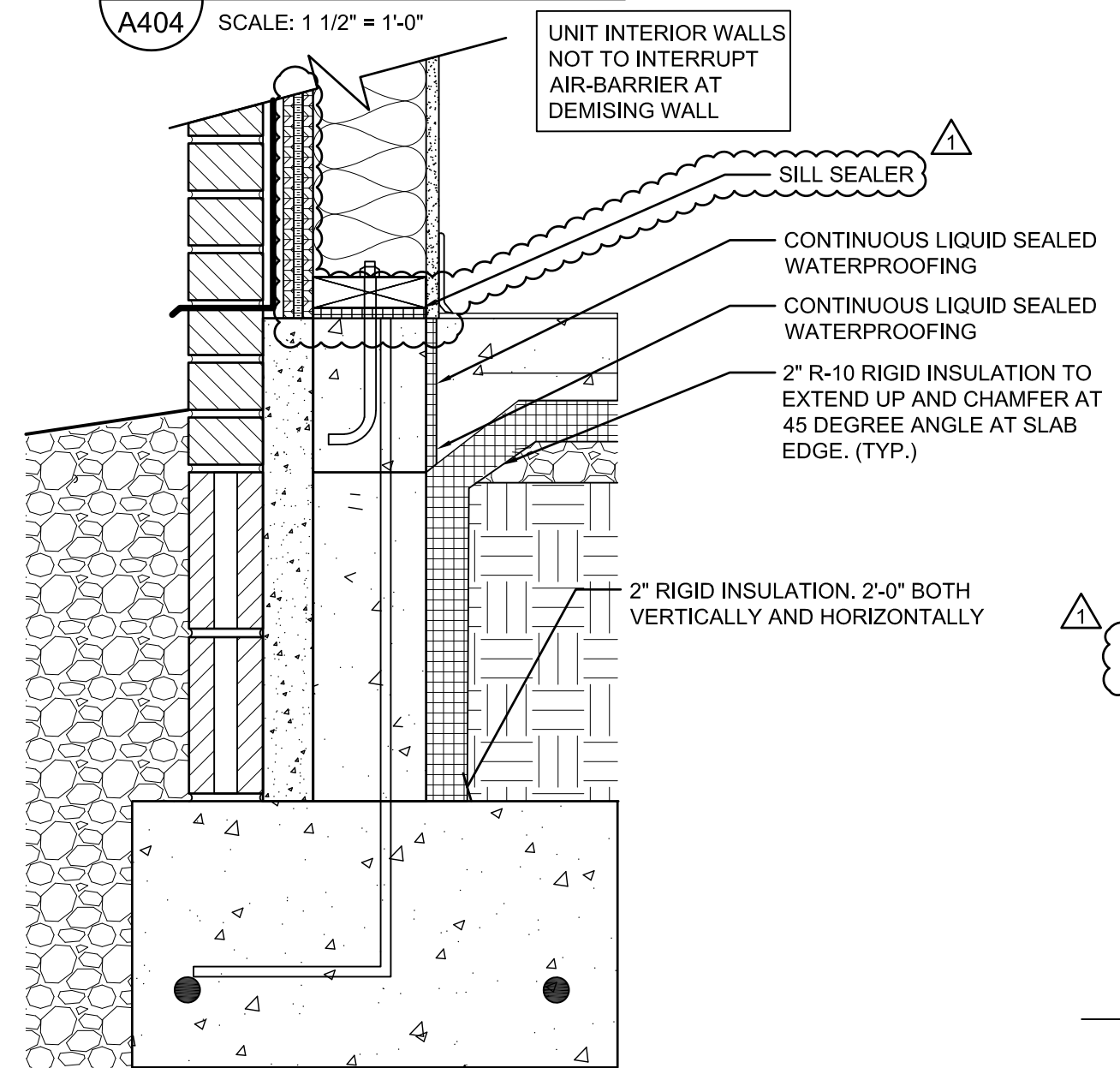
5 AIR BARRIER SECTION @ TYP. UNIT SEPARATION
A404 SCALE: 1 1/2" = 1'-0"



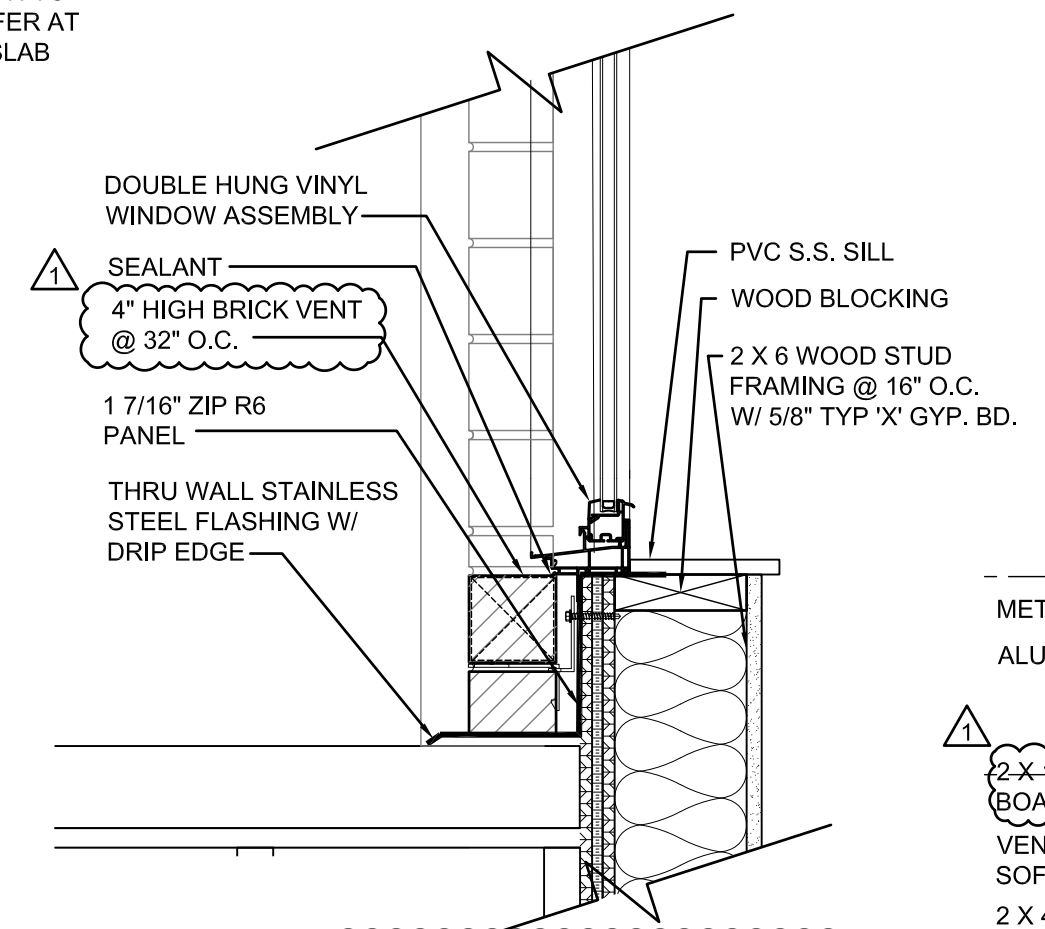
10 AIR BARRIER SECTION @ DUCT / PIPE PENETRATIONS
A404 SCALE: 1 1/2" = 1'-0"



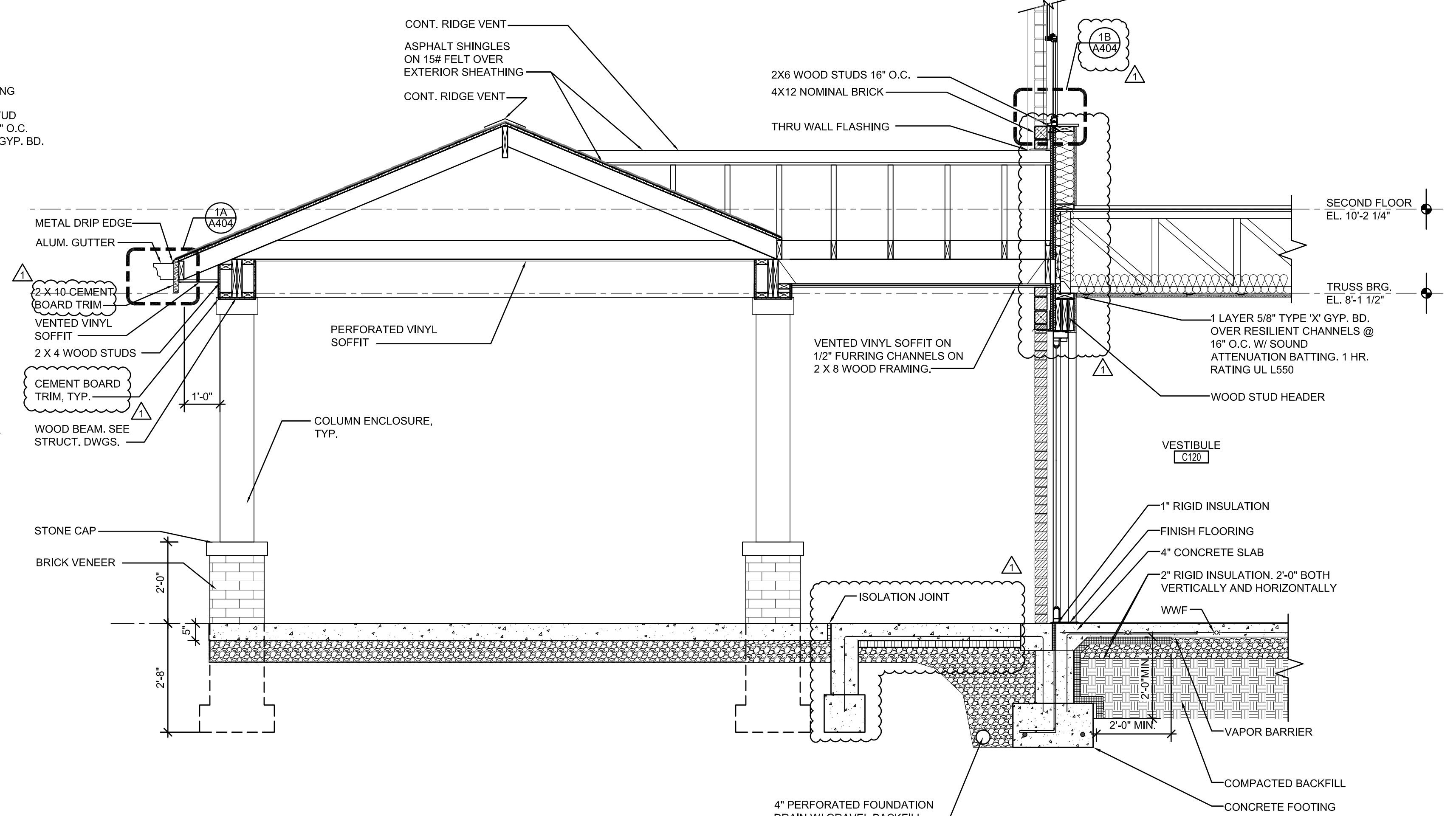
9 AIR BARRIER SECTION @ ROOF
A404 SCALE: 1 1/2" = 1'-0"



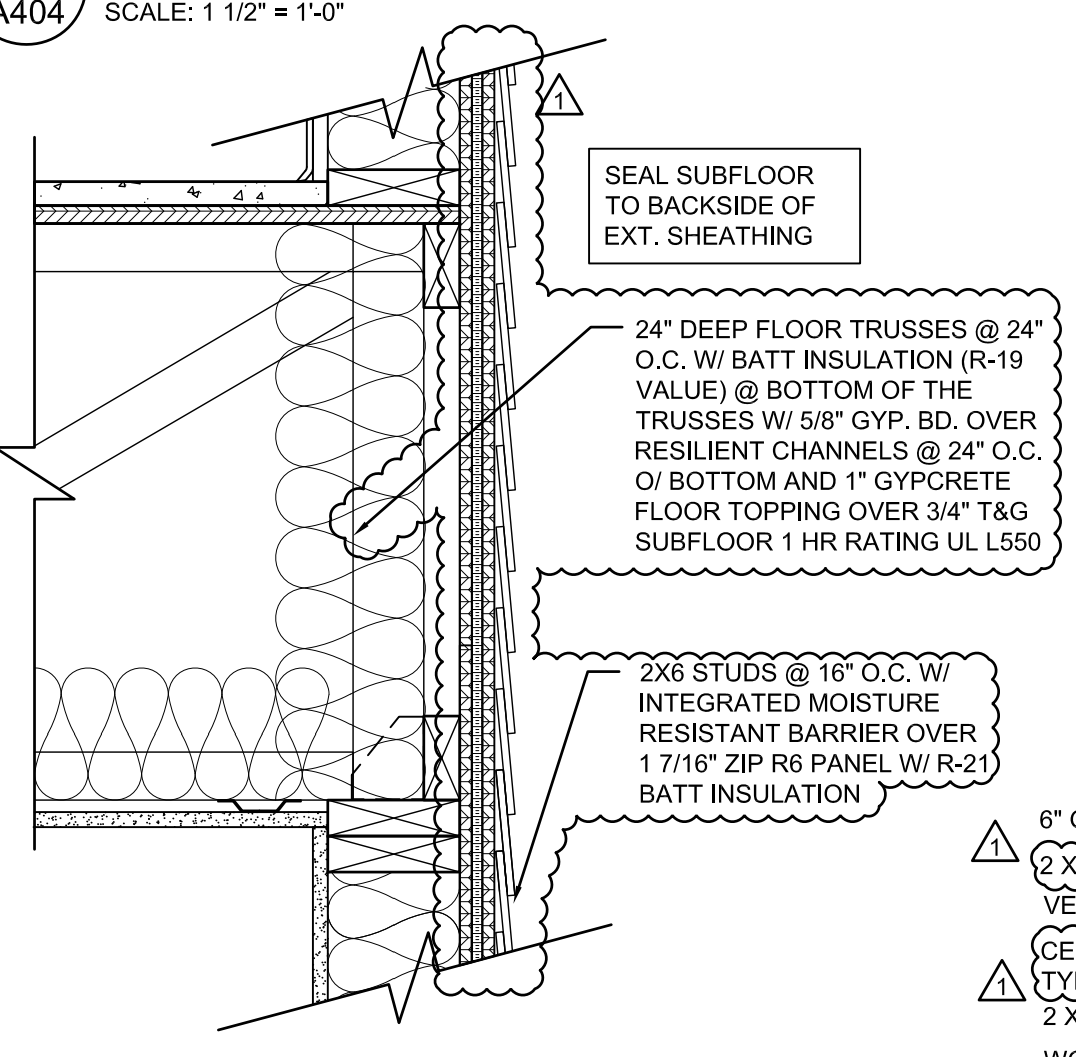
8 AIR BARRIER SECTION @ FOUNDATION
A404 SCALE: 1 1/2" = 1'-0"



1B SILL DETAIL
A404 SCALE: 1 1/2" = 1'-0"



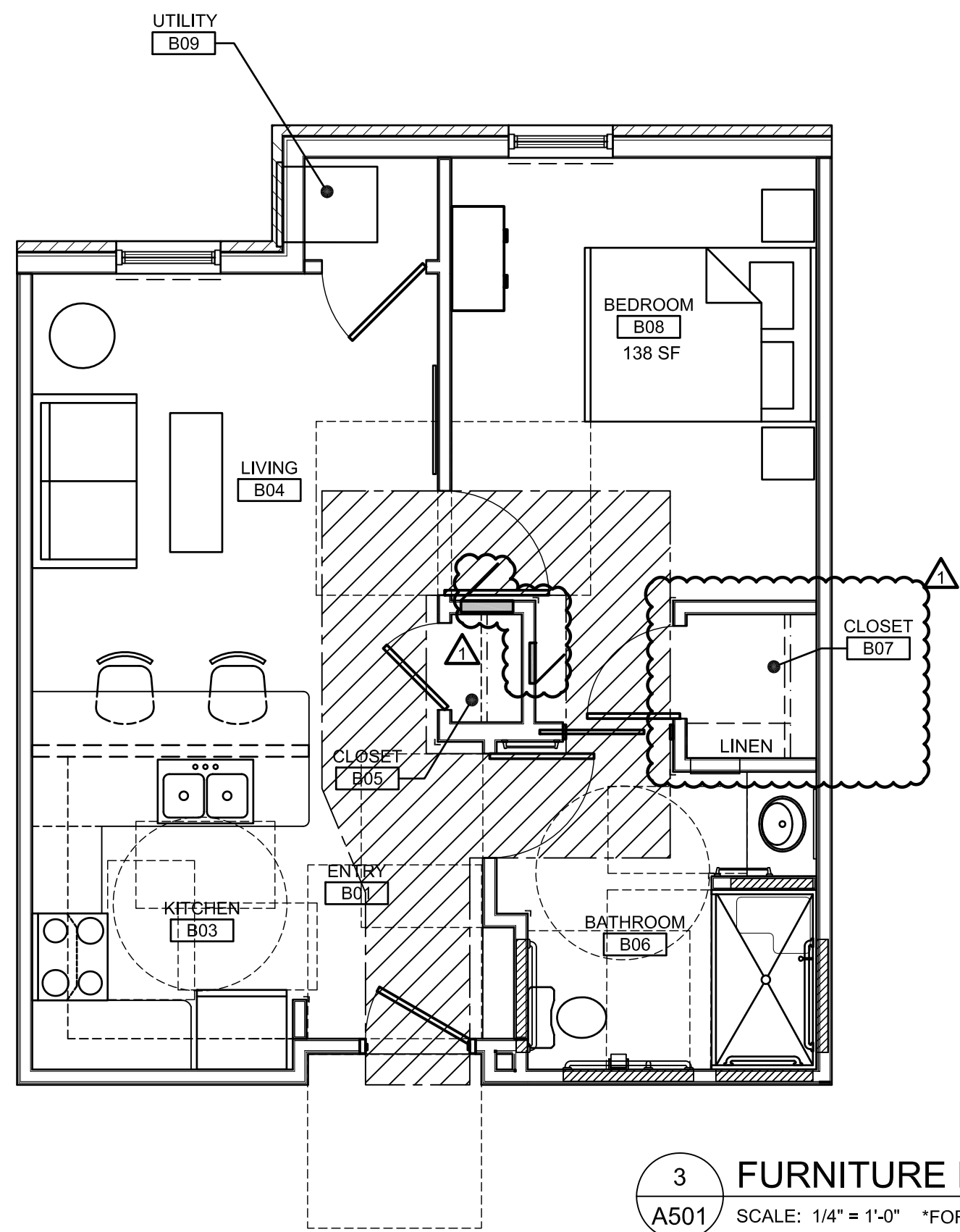
1 CANOPY SECTION
A404 SCALE: 1/2" = 1'-0"



7 AIR BARRIER SECTION @ FLOOR / CEILING
A404 SCALE: 1 1/2" = 1'-0"

1A DETAIL
A404 SCALE: 1 1/2" = 1'-0"

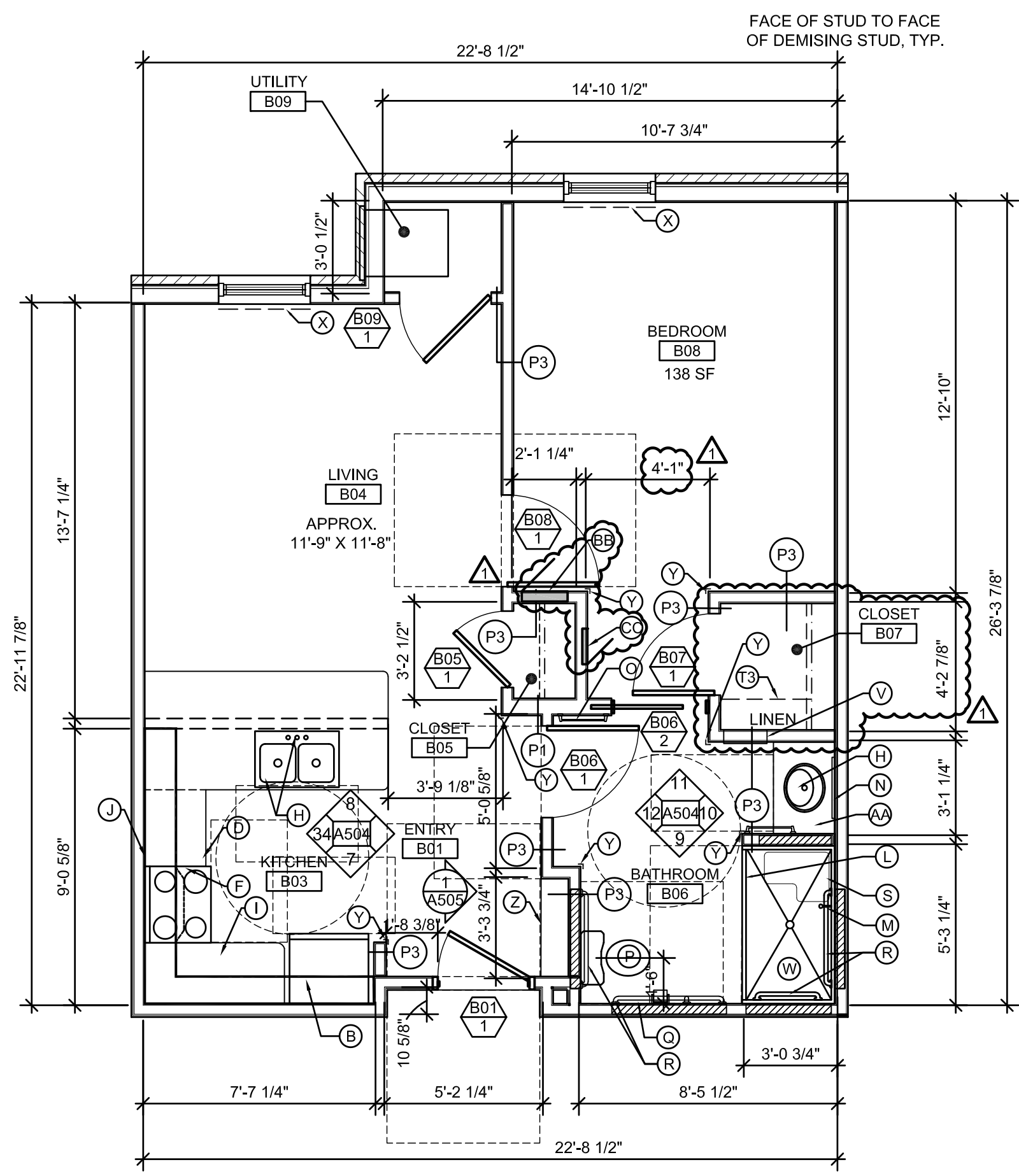
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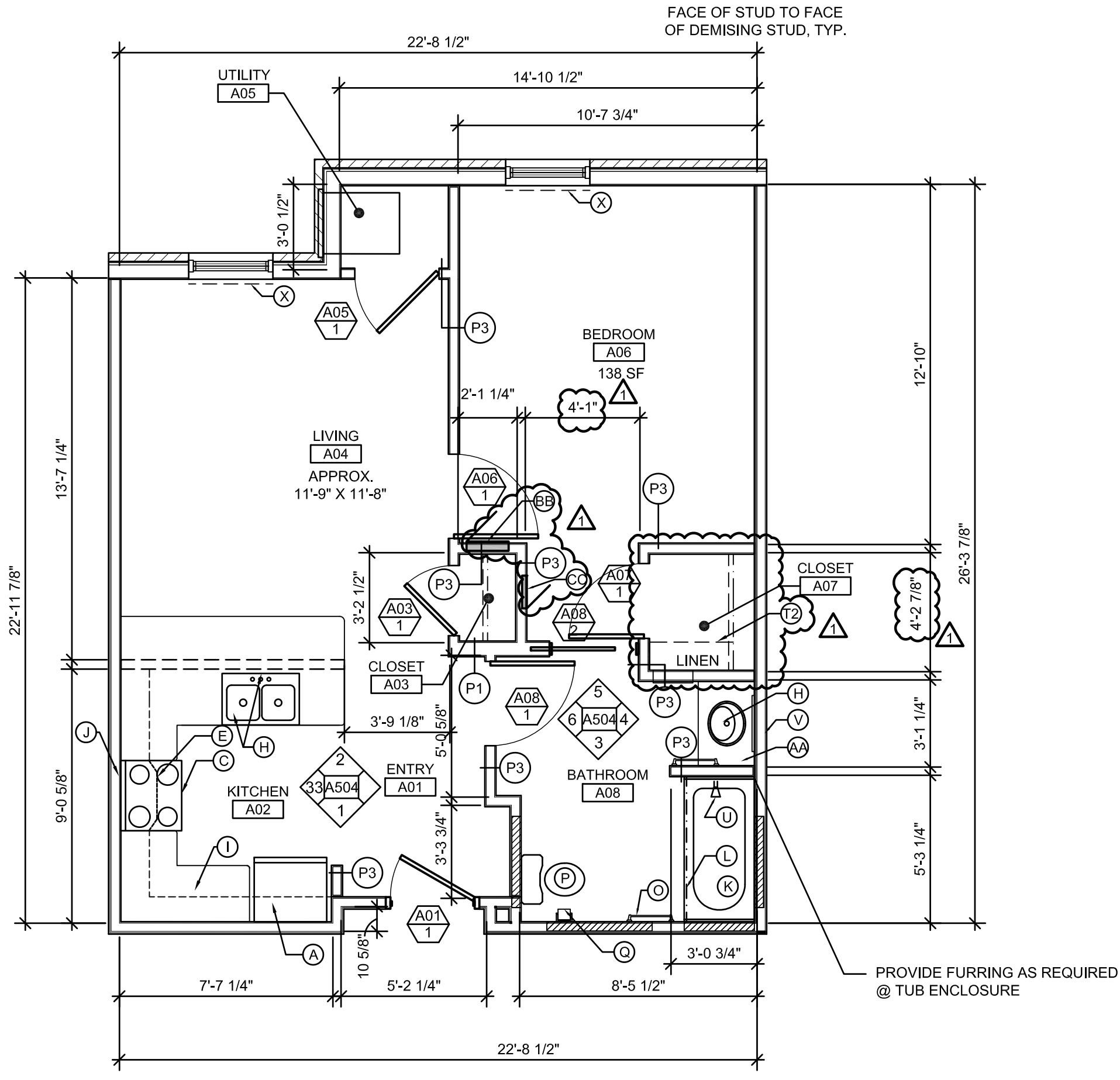
3 FURNITURE PLAN MU
A501 SCALE: 1/4" = 1'-0" *FOR REFERENCE ONLY*

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(R) GRAB BAR
(B) ACCESSIBLE REFRIGERATOR	(S) REMOVABLE SHOWER SEAT
(C) 30" SLIDE-IN RANGE	(T1) ADJUSTABLE SHELVING W/ BRACKETS (3 SHELVES)
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(T2) ADJUSTABLE SHELVING W/ BRACKETS (4 SHELVES)
(E) RANGE HOOD	(T3) ADJUSTABLE SHELVING W/ BRACKETS (5 SHELVES)
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(U) FIXED SHOWER HEAD
(G) RANGE HOOD DUCT CHASE	(V) MEDICINE CABINET
(H) SINK AND FAUCET	(W) FIBERGLASS SHOWER SURROUND
(I) COUNTERTOP W / SIDE AND BACKSPASH	(X) BLINDS
(J) GREASE SHIELD	(Y) CORNER GUARDS
(K) BATHTUB & FIBERGLASS SURROUND	(Z) ADJUSTABLE SHELF W/ RECESSED BRACKETS W/ 6 SHELVES
(L) FIXED SHOWER ROD	(AA) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(M) ADJUSTABLE SHOWER HEAD	(BB) ELECTRICAL PANEL
(N) SURFACE MOUNTED MIRROR	(CC) DATA PROVIDER TIE-IN BOX
(O) 12" TOWEL BAR	
(P) TOILET	
(Q) TOILET PAPER HOLDER	

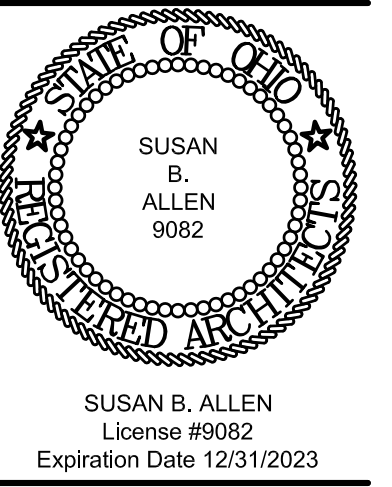
GENERAL NOTES
1. ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
2. ALL DRAWERS AND CABINETS ARE TO HAVE LOOP PULLS.
3. STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES
4. ALL CLOSETS TO HAVE ROD & SHELF UNLESS NOTED OTHERWISE.



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



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



REVISIONS
1. BULLETIN 01 07/17/2023

ONE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO

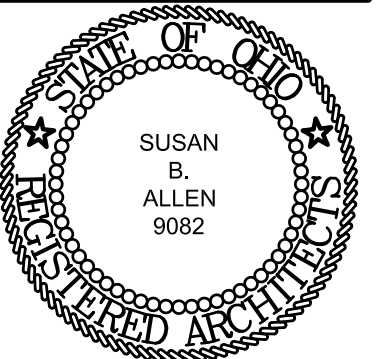


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TURNING VISIONS
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PROJECT NUMBER

A501
DRAWING NUMBER



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

REVISIONS

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TWO BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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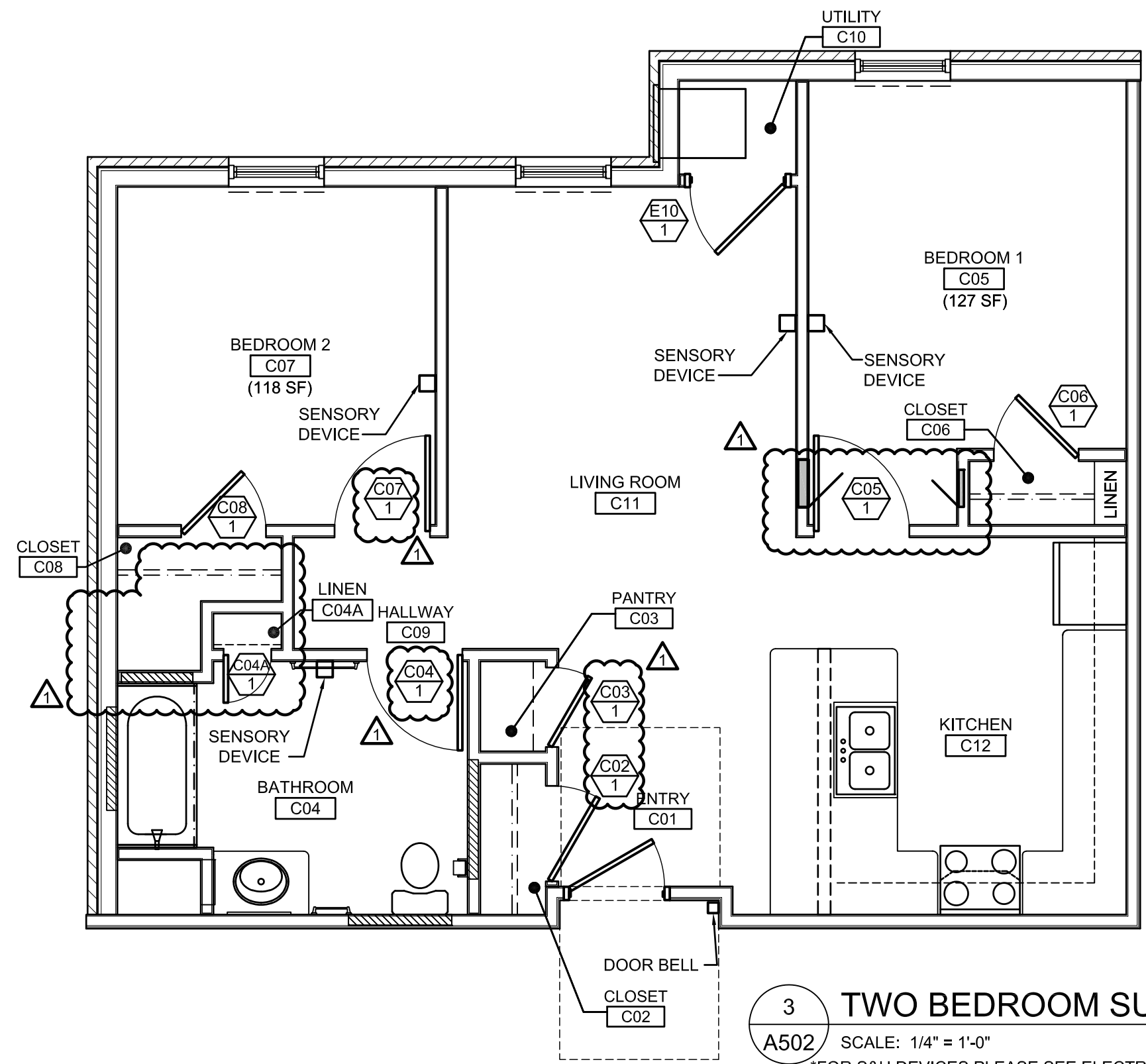
PROJECT NUMBER

A502

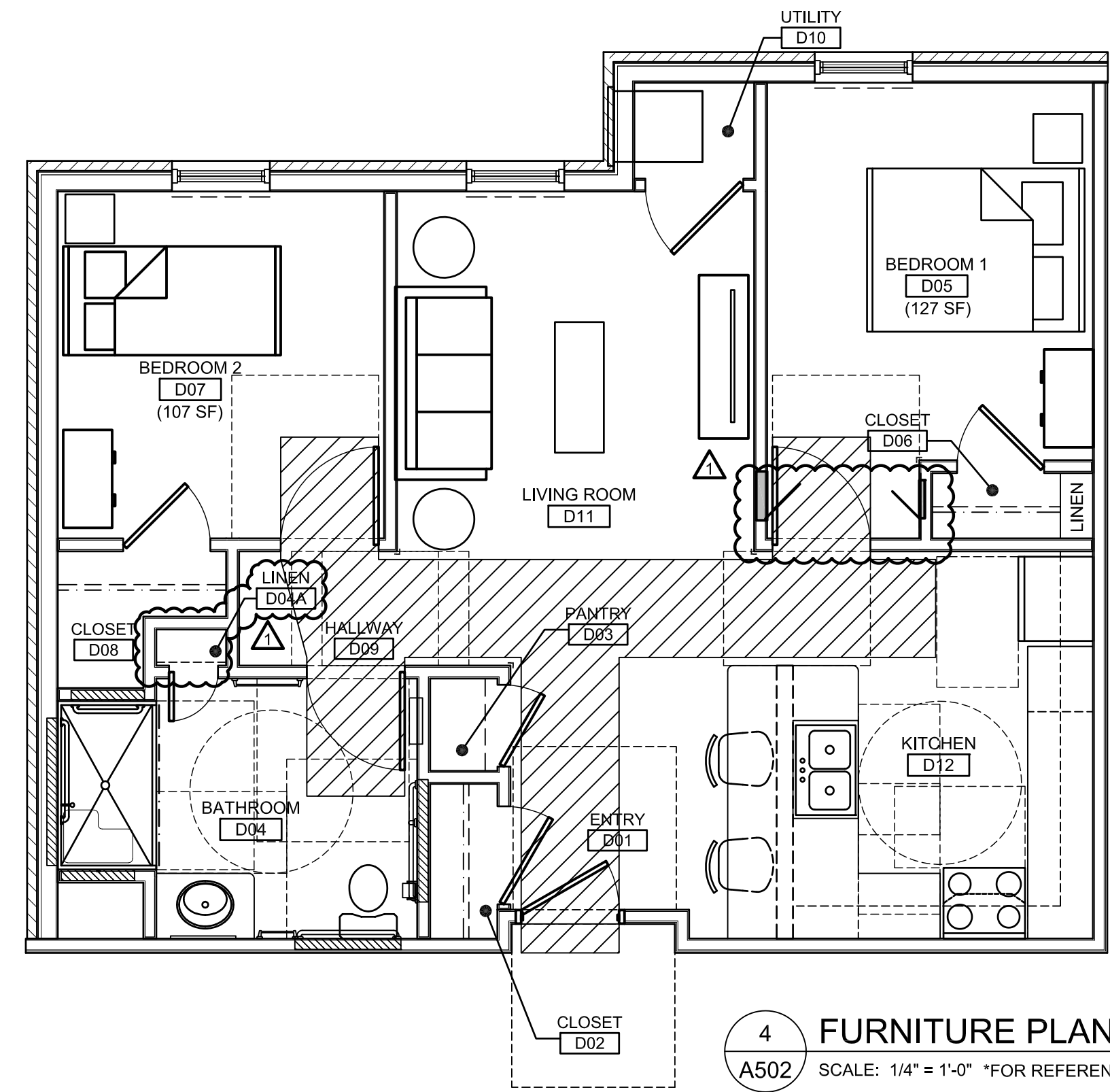
DRAWING NUMBER

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(R) GRAB BAR
(B) ACCESSIBLE REFRIGERATOR	(S) REMOVABLE SHOWER SEAT
(C) 30" SLIDE-IN RANGE	(T) ADJUSTABLE SHELVING W/ BRACKETS (3 SHELVES)
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(U) ADJUSTABLE SHELVING W/ BRACKETS (4 SHELVES)
(E) RANGE HOOD	(V) ADJUSTABLE SHELVING W/ BRACKETS (5 SHELVES)
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(W) FIXED SHOWER HEAD
(G) RANGE HOOD DUCT CHASE	(X) MEDICINE CABINET
(H) SINK AND FAUCET	(Y) FIBERGLASS SHOWER SURROUND
(I) COUNTERTOP W / SIDE AND BACKSPASH	(Z) CORNER GUARDS
(J) GREASE SHIELD	(AA) ADJUSTABLE SHELF W/ RECESSED BRACKETS W/ 6 SHELVES
(K) BATHTUB & FIBERGLASS SURROUND	(AB) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(L) FIXED SHOWER ROD	(AC) ELECTRICAL PANEL
(M) ADJUSTABLE SHOWER HEAD	(AD) DATA PROVIDER TIE-IN BOX
(N) SURFACE MOUNTED MIRROR	
(O) 12" TOWEL BAR	
(P) TOILET	
(Q) TOILET PAPER HOLDER	

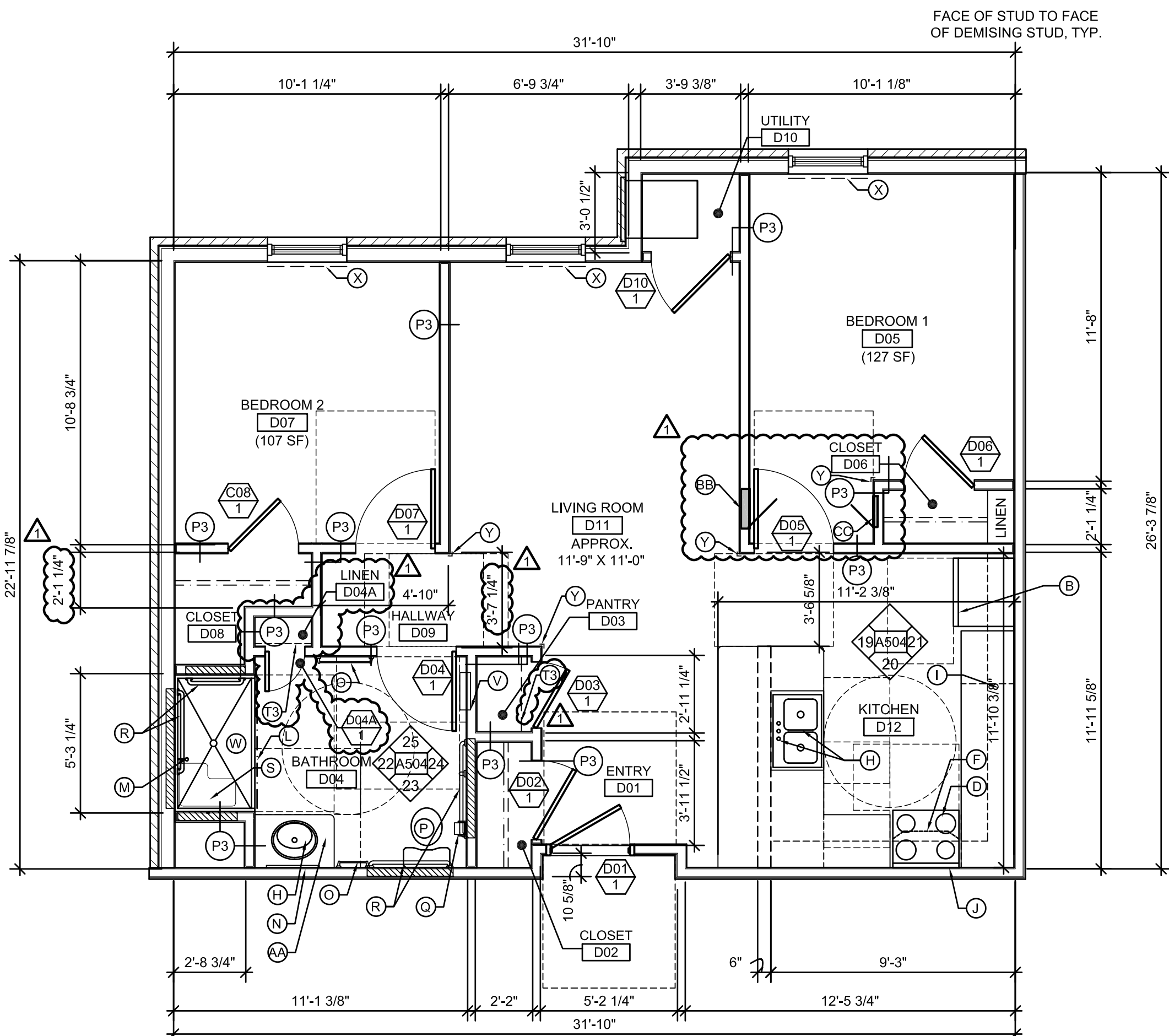
GENERAL NOTES	
1.	ALL DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD.
2.	ALL DRAWERS AND CABINETS ARE TO HAVE LOOP PULLS.
3.	STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES
4.	ALL CLOSETS TO HAVE ROD & SHELF UNLESS NOTED OTHERWISE.



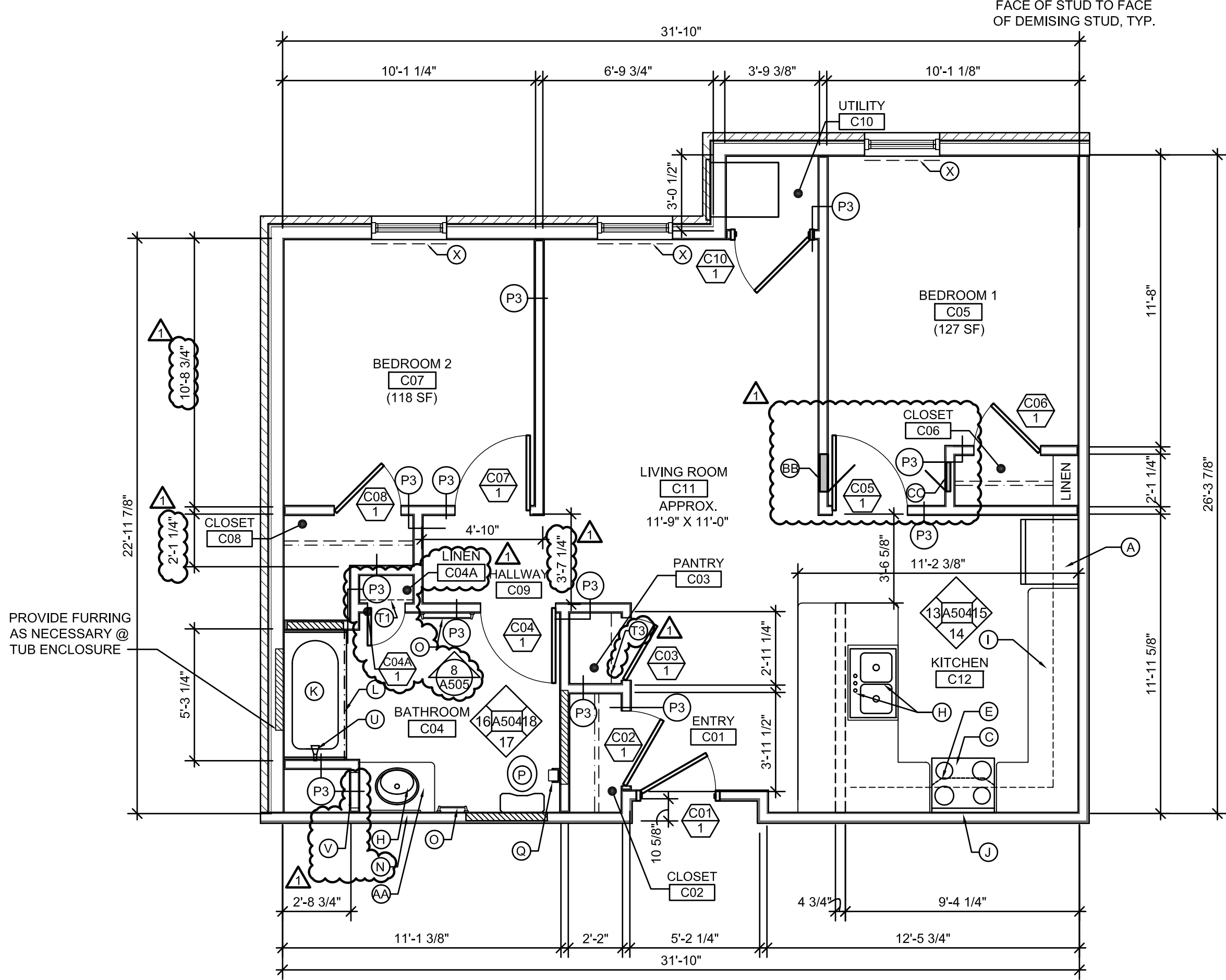
3 TWO BEDROOM SU
A502 SCALE: 1/4" = 1'-0"
FOR S&H DEVICES PLEASE SEE ELECTRICAL DRAWINGS
FOR DIMS AND CODED NOTES PLEASE SEE 1 / A502



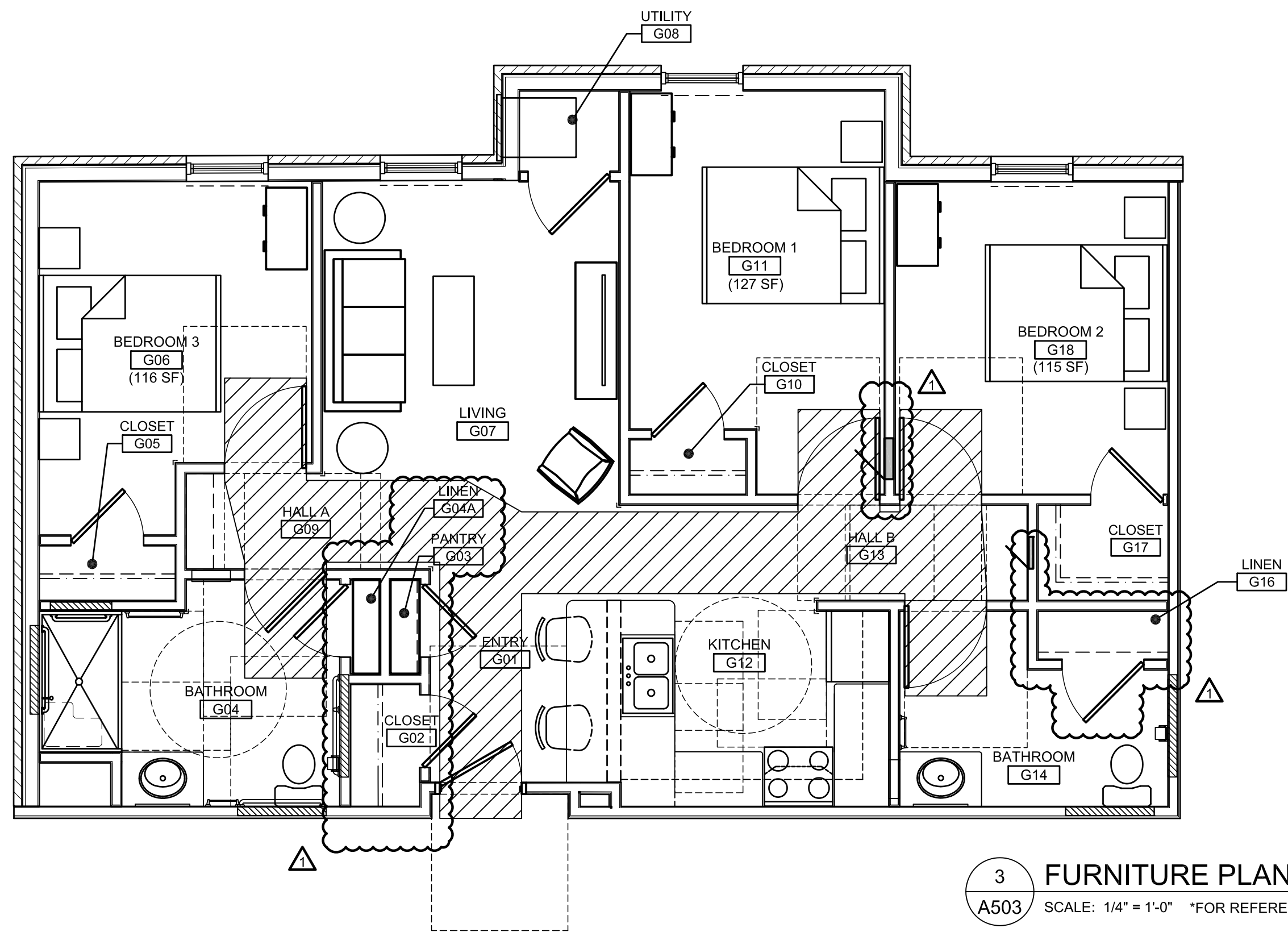
4 FURNITURE PLAN MU
A502 SCALE: 1/4" = 1'-0" *FOR REFERENCE ONLY*



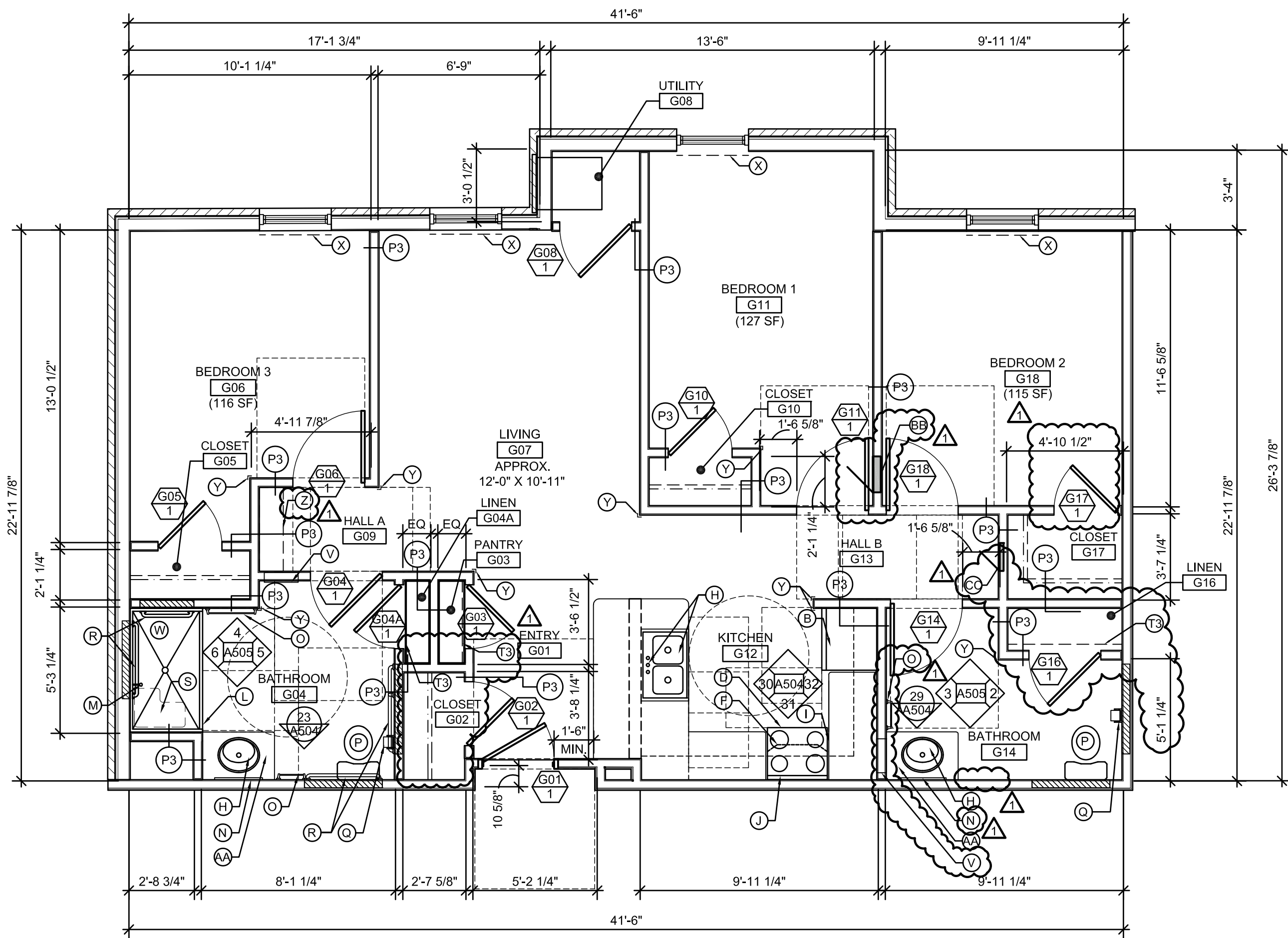
2 TWO BEDROOM MU
A502 SCALE: 1/4" = 1'-0"



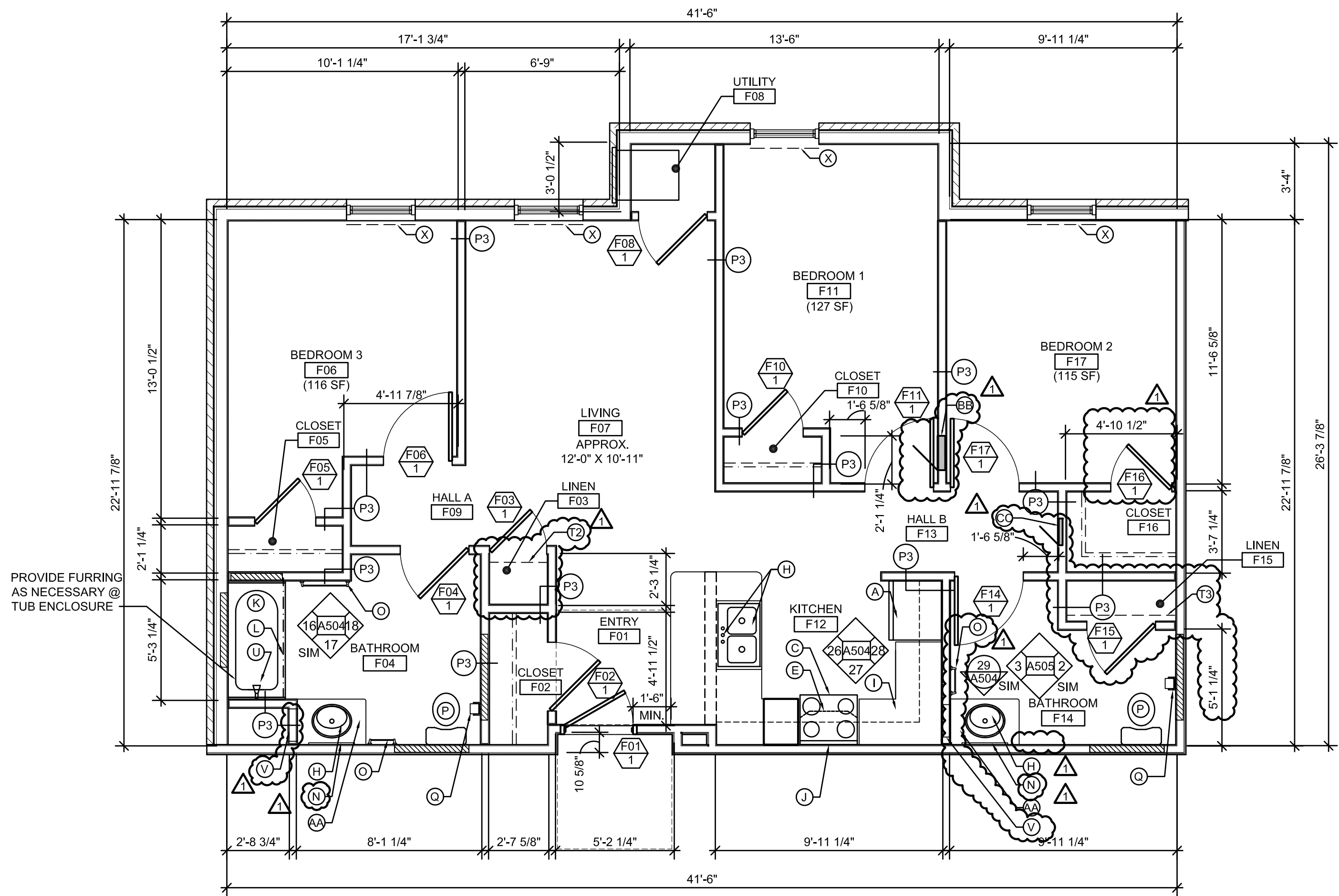
1 TWO BEDROOM
A502 SCALE: 1/4" = 1'-0"



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



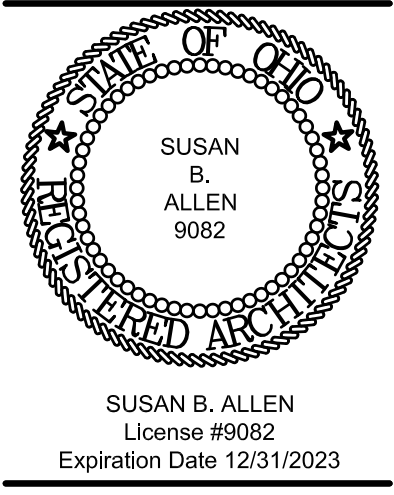
2 THREE BEDROOM MU
A503 SCALE: 1/4" = 1'-0"



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

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(R) GRAB BAR
(B) ACCESSIBLE REFRIGERATOR	(S) REMOVABLE SHOWER SEAT
(C) 30" SLIDE-IN RANGE	(T1) ADJUSTABLE SHELVING W/ BRACKETS (3 SHELVES)
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(T2) ADJUSTABLE SHELVING W/ BRACKETS (4 SHELVES)
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(J) GREASE SHIELD	(Y) CORNER GUARDS
(K) BATHTUB & FIBERGLASS SURROUND	(Z) ADJUSTABLE SHELF W/ RECESSED BRACKETS W/ 6 SHELVES
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(M) ADJUSTABLE SHOWER HEAD	(BB) ELECTRICAL PANEL
(N) SURFACE MOUNTED MIRROR	(CC) DATA PROVIDER TIE-IN BOX
(O) 12" TOWEL BAR	
(P) TOILET	
(Q) TOILET PAPER HOLDER	

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.	STORAGE G03 IN MU UNIT TO HAVE 5 ADJUSTABLE SHELVES
4.	ALL CLOSETS TO HAVE ROD & SHELF UNLESS NOTED OTHERWISE.



REVISIONS	
1	BULLETIN 01/07/17/2023

THREE BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO

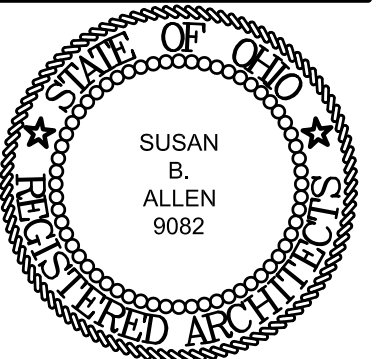


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A503
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Expiration Date 12/31/2023

REVISIONS
BULLETIN 01 07/17/2023

INTERIOR ELEVATIONS
GERMANTOWN CROSSING
DAYTON OHIO



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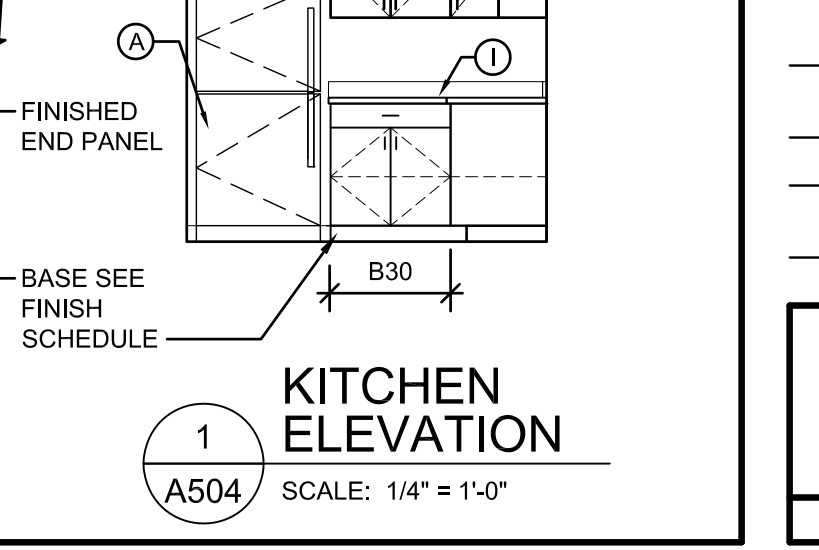
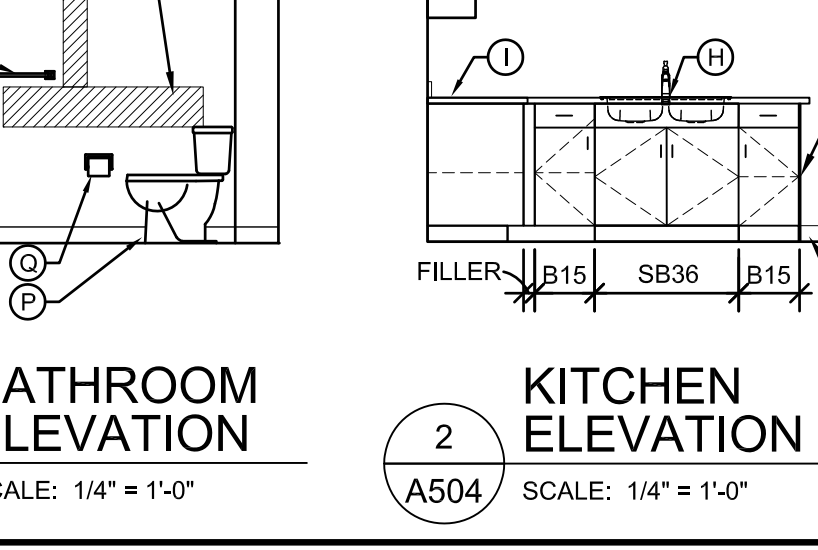
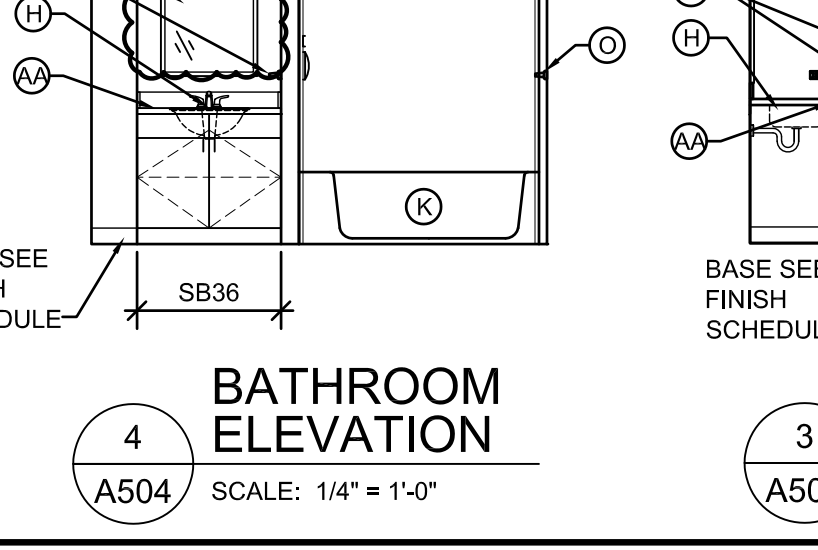
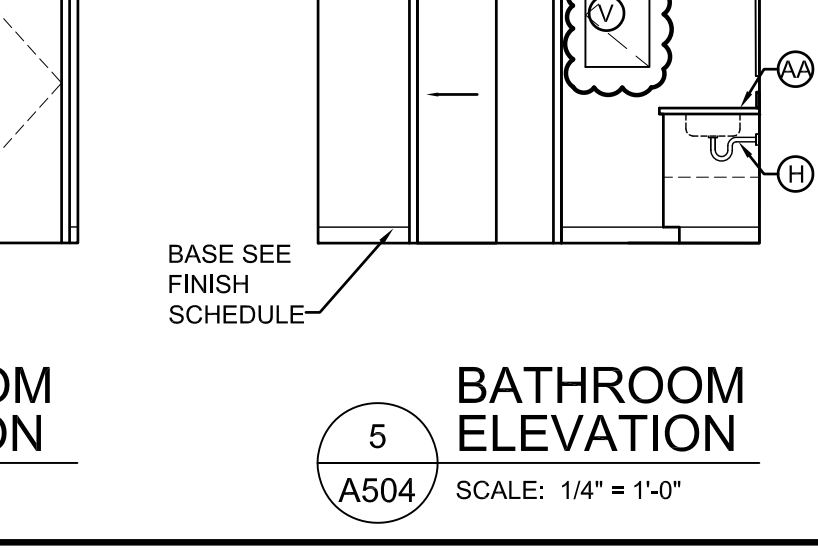
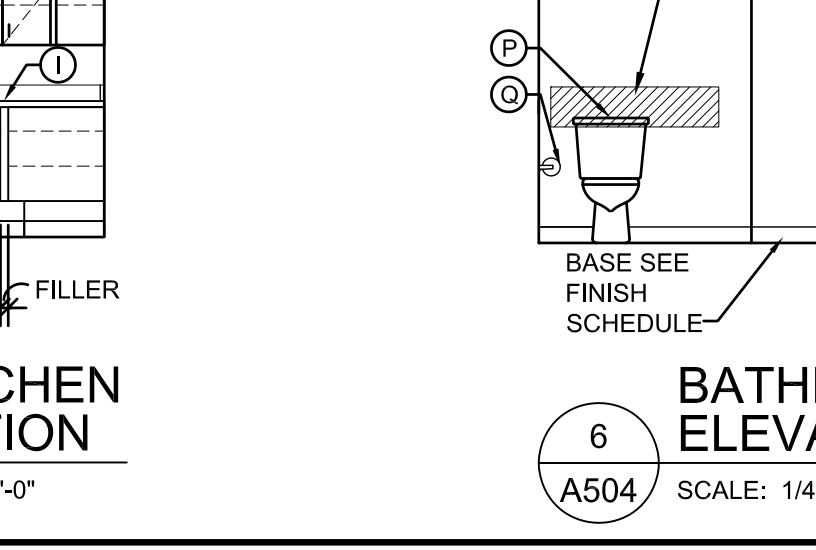
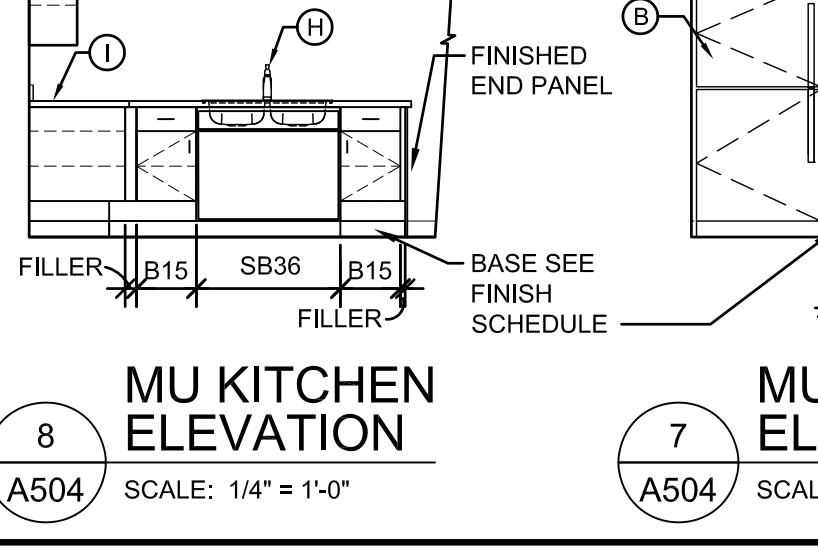
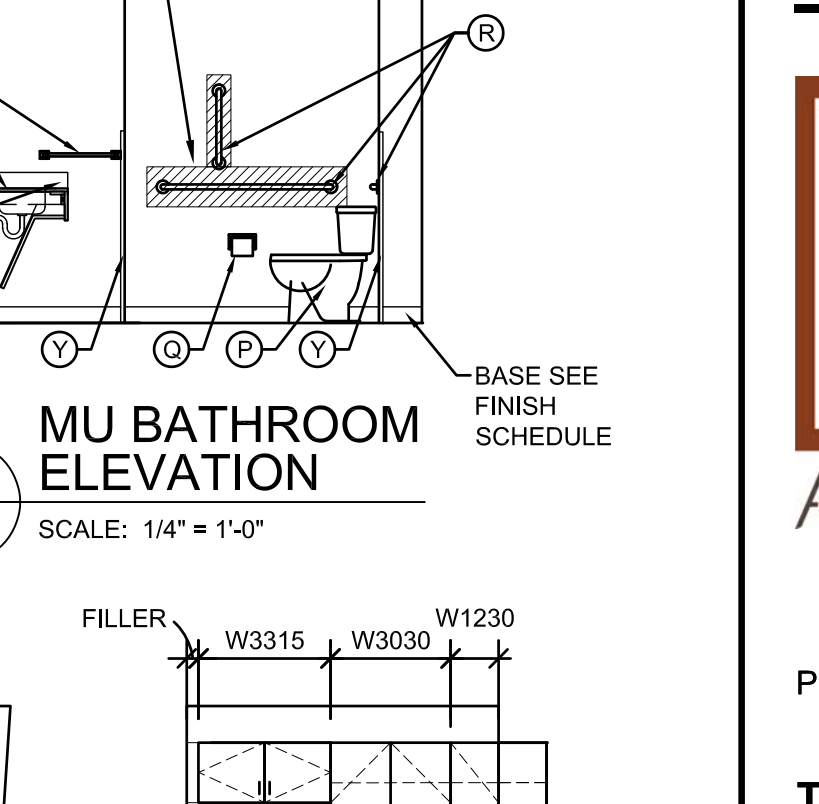
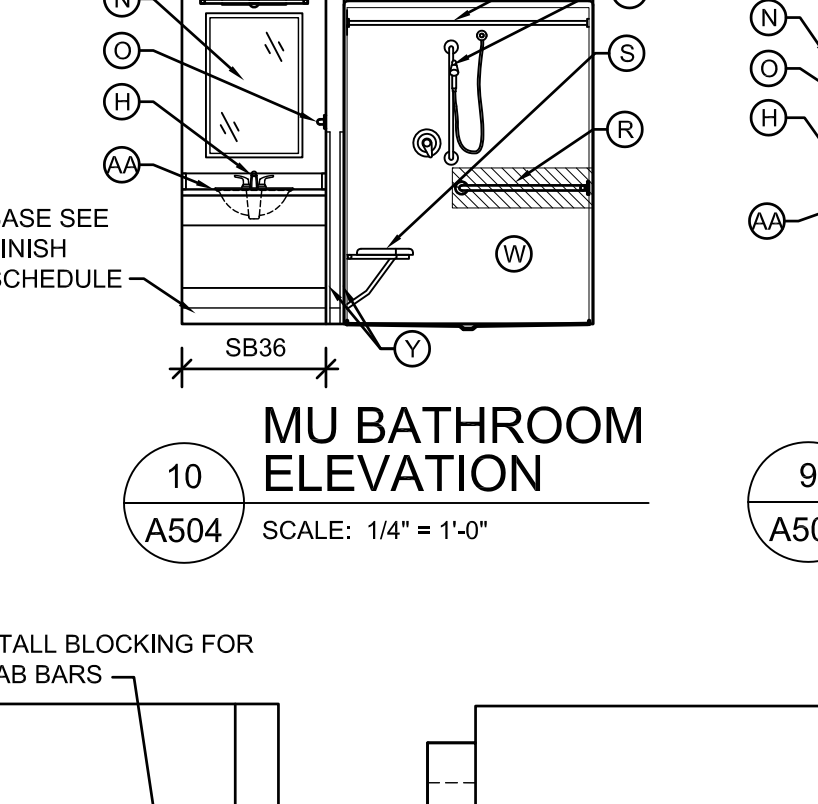
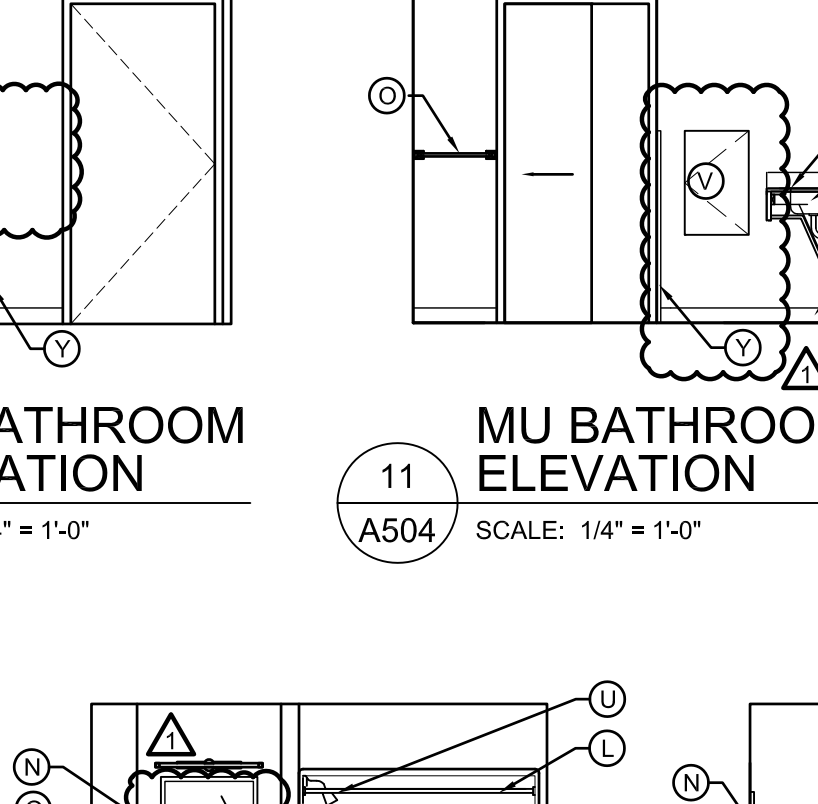
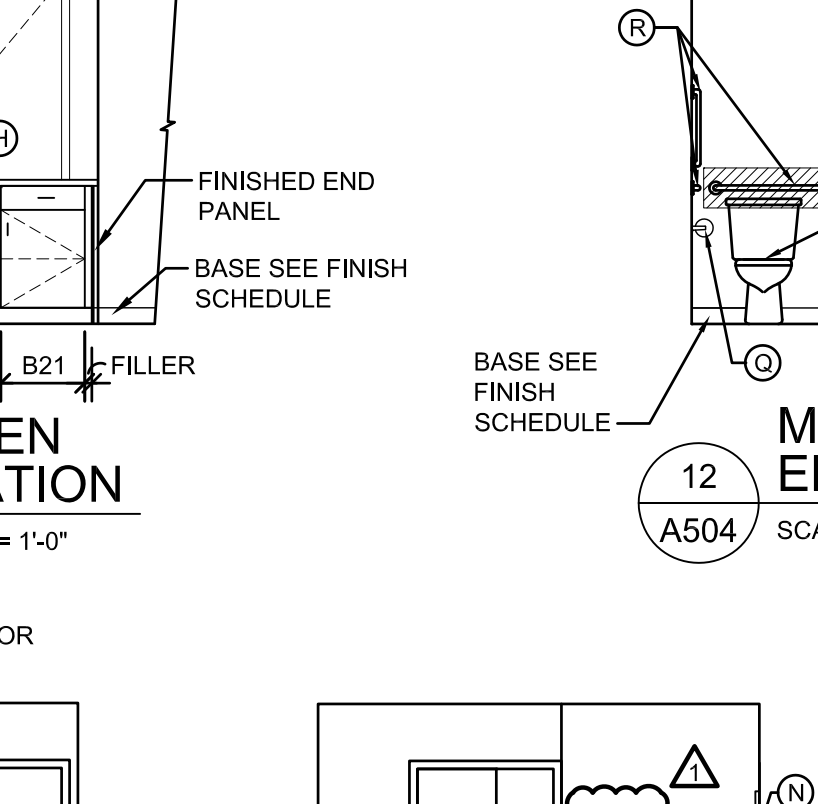
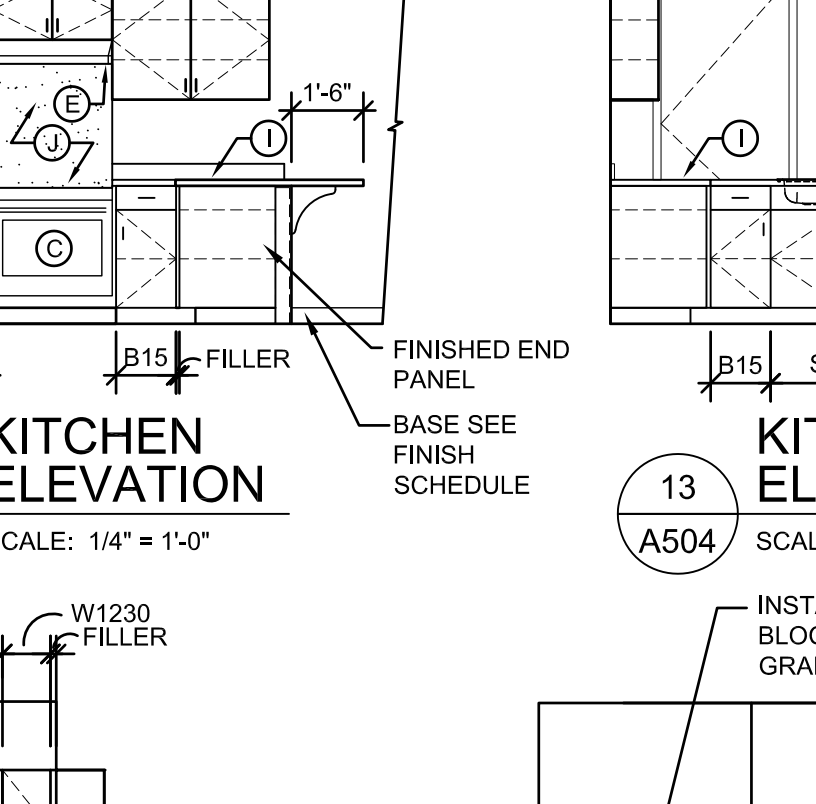
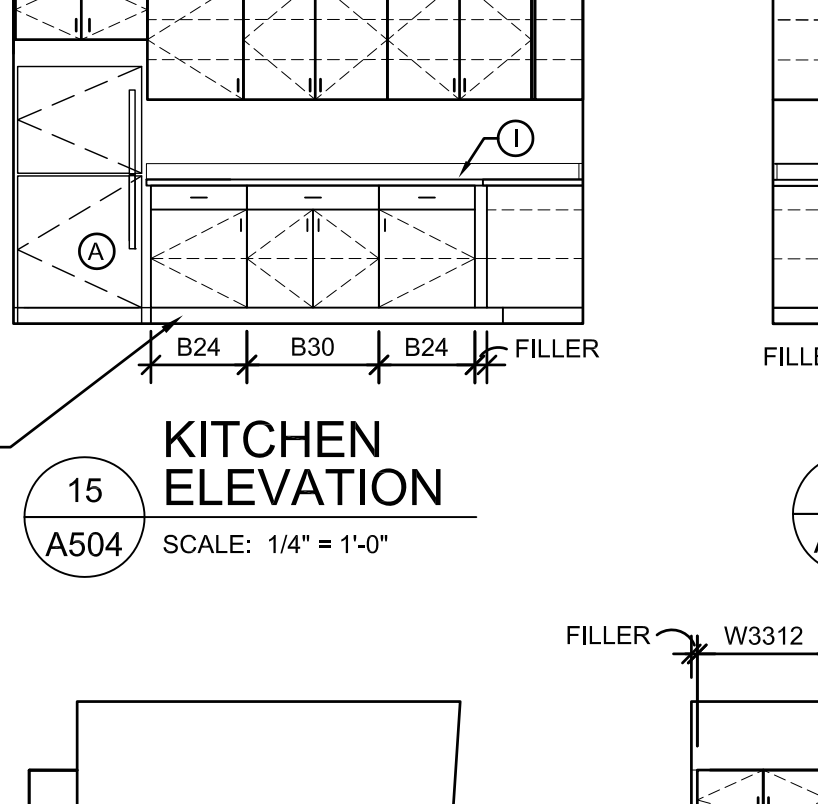
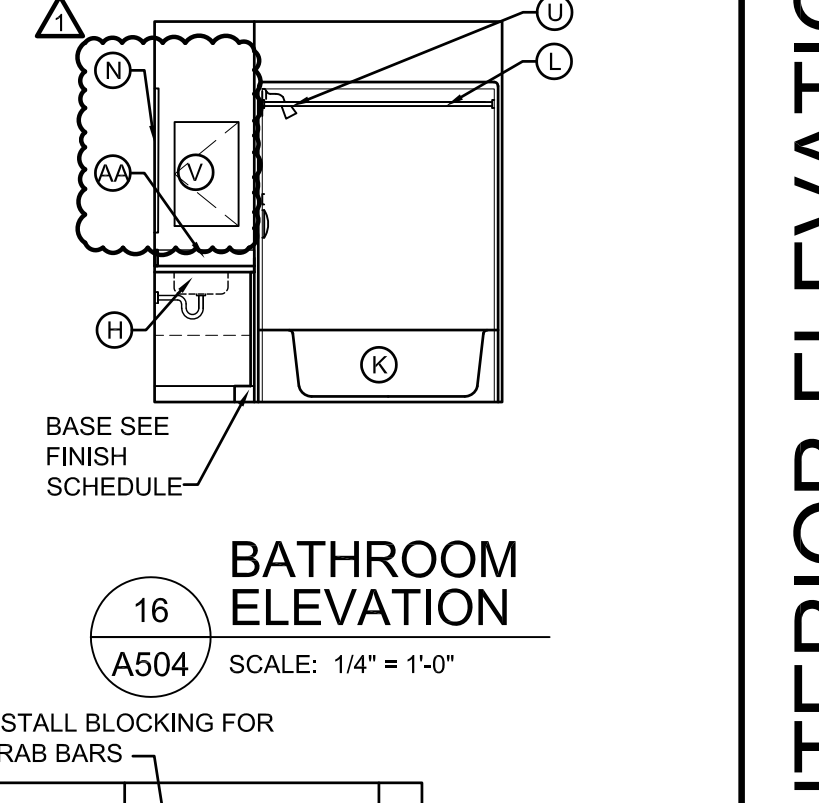
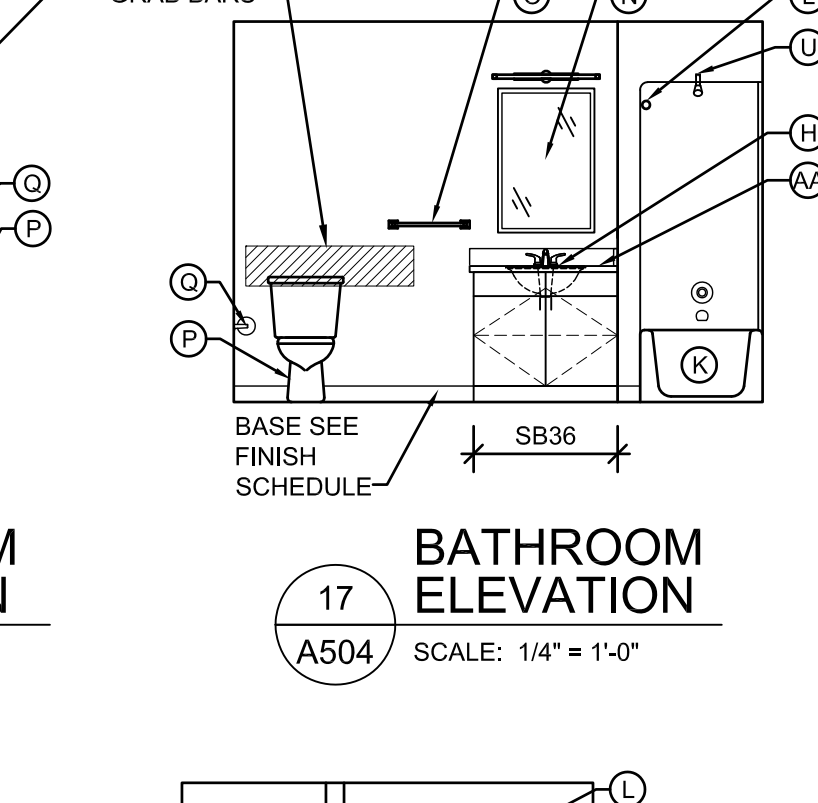
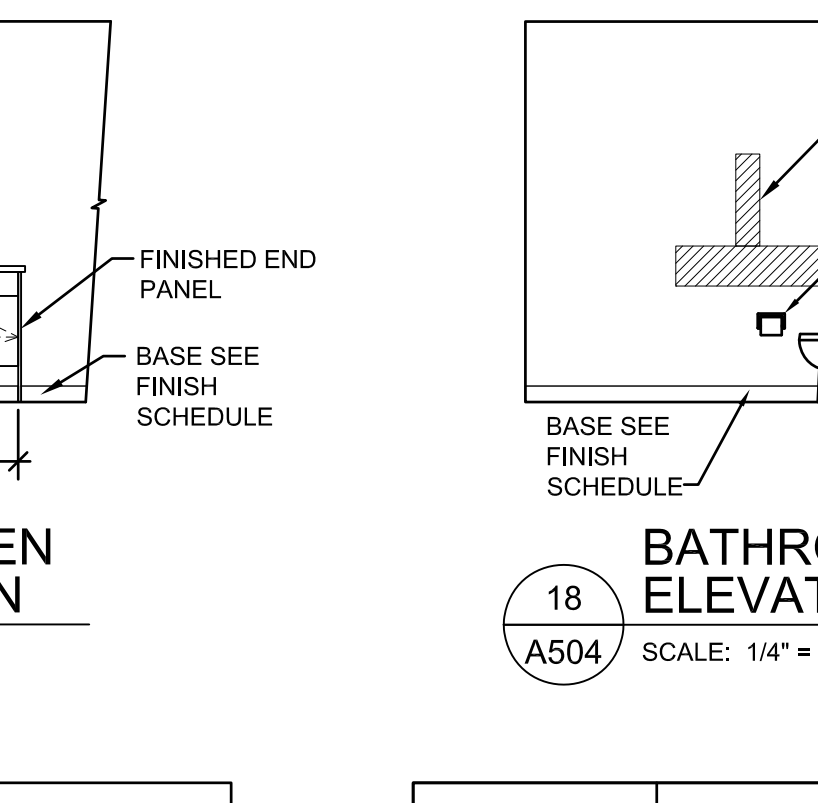
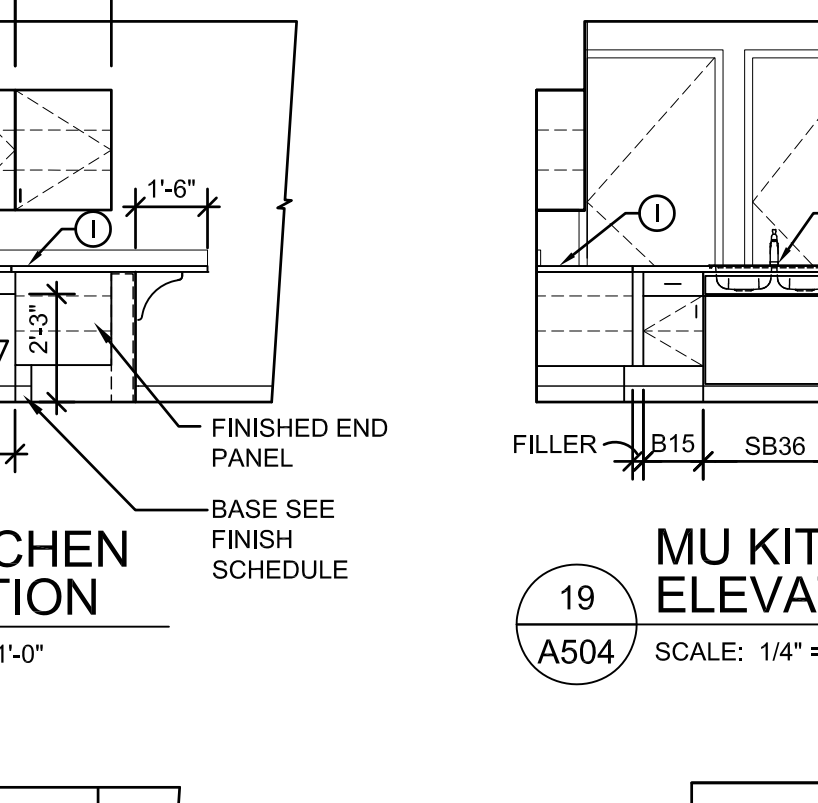
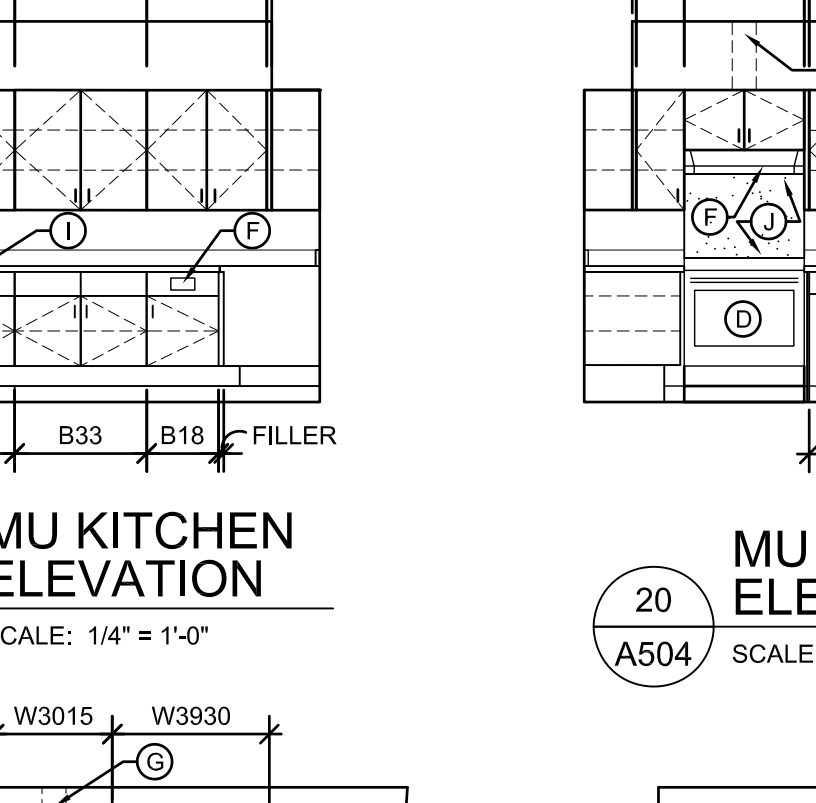
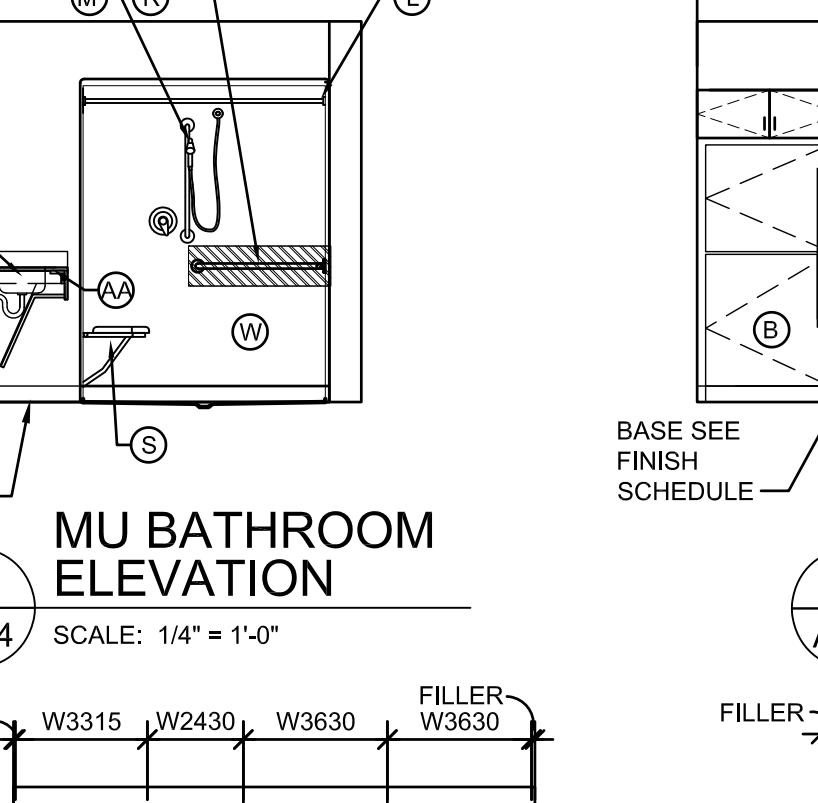
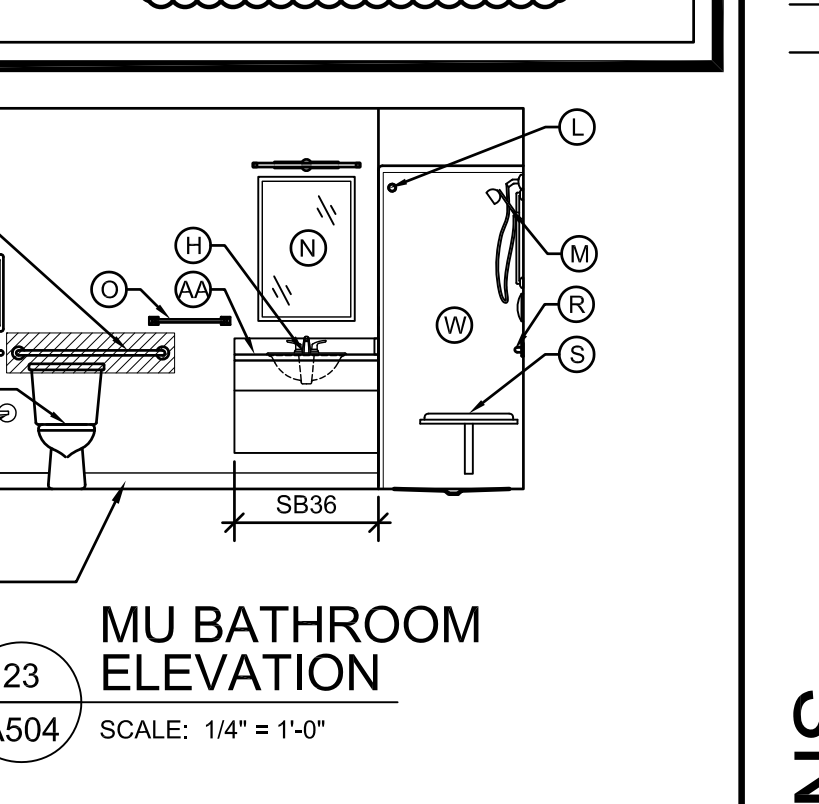
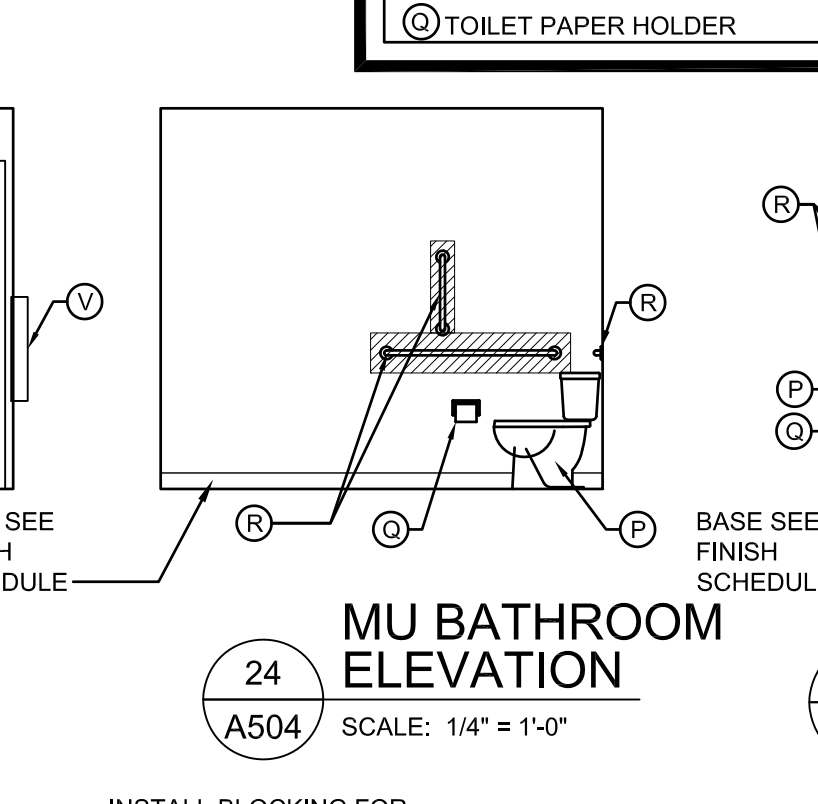
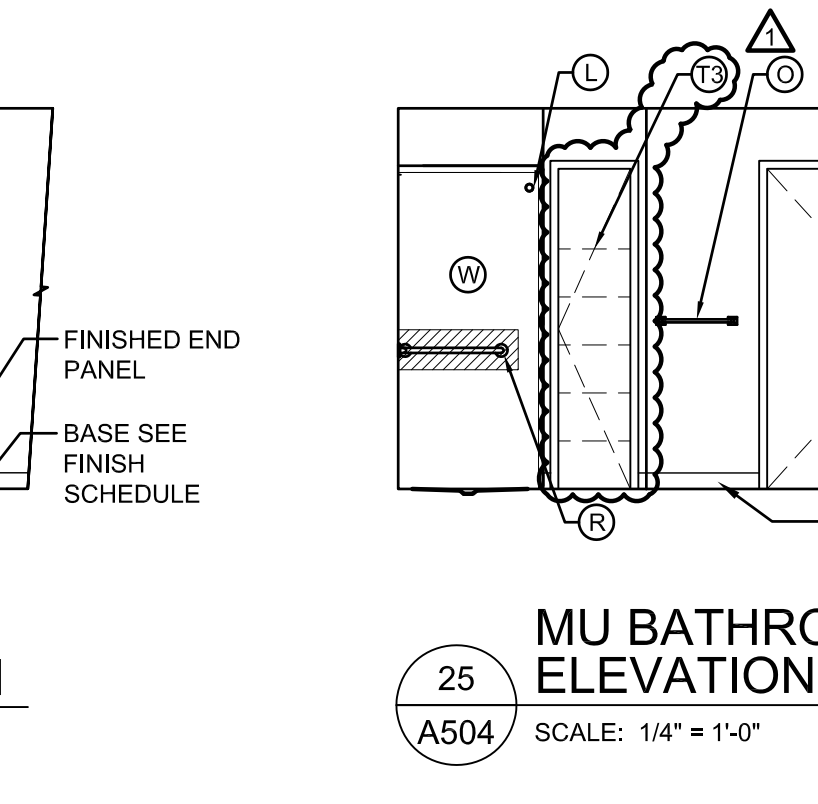
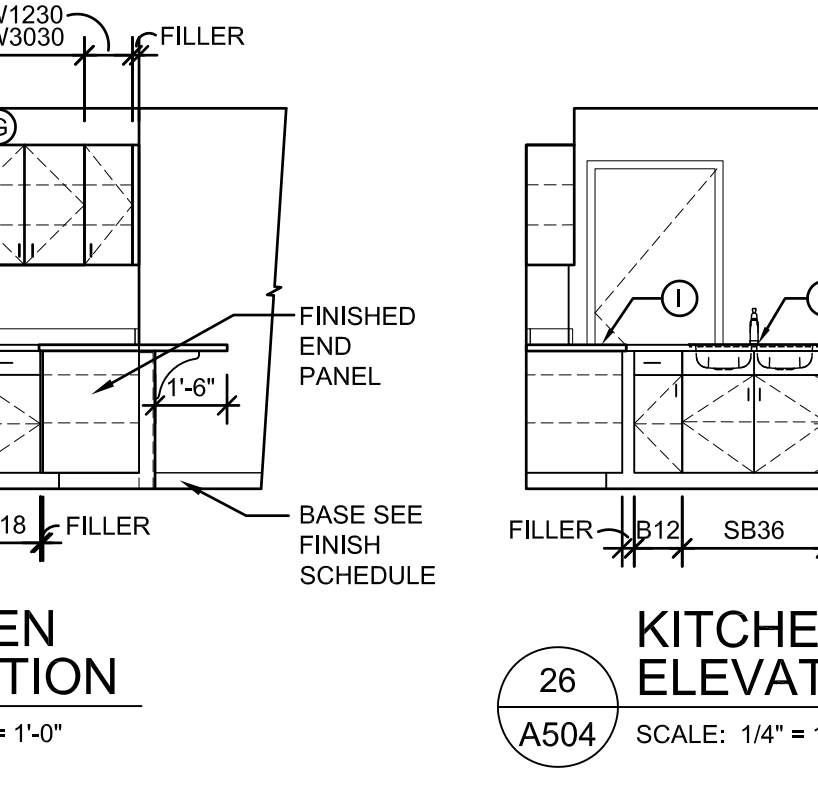
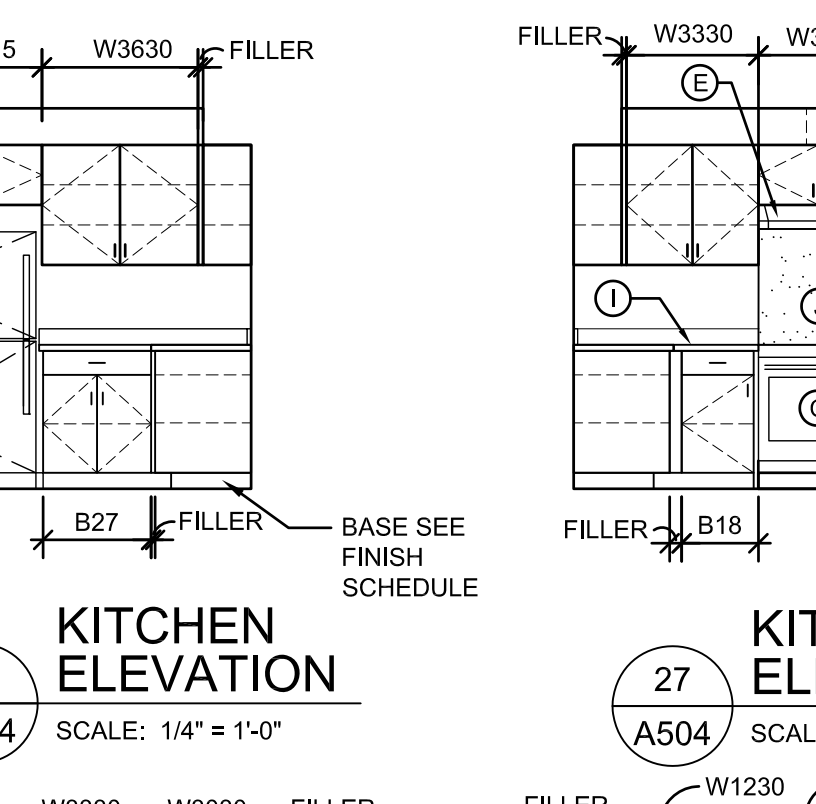
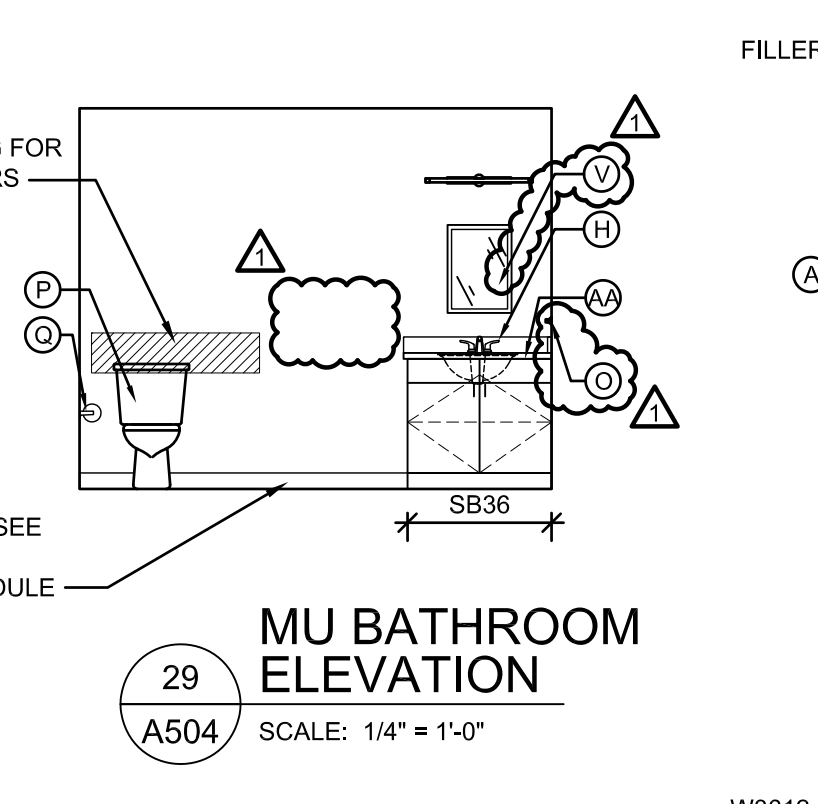
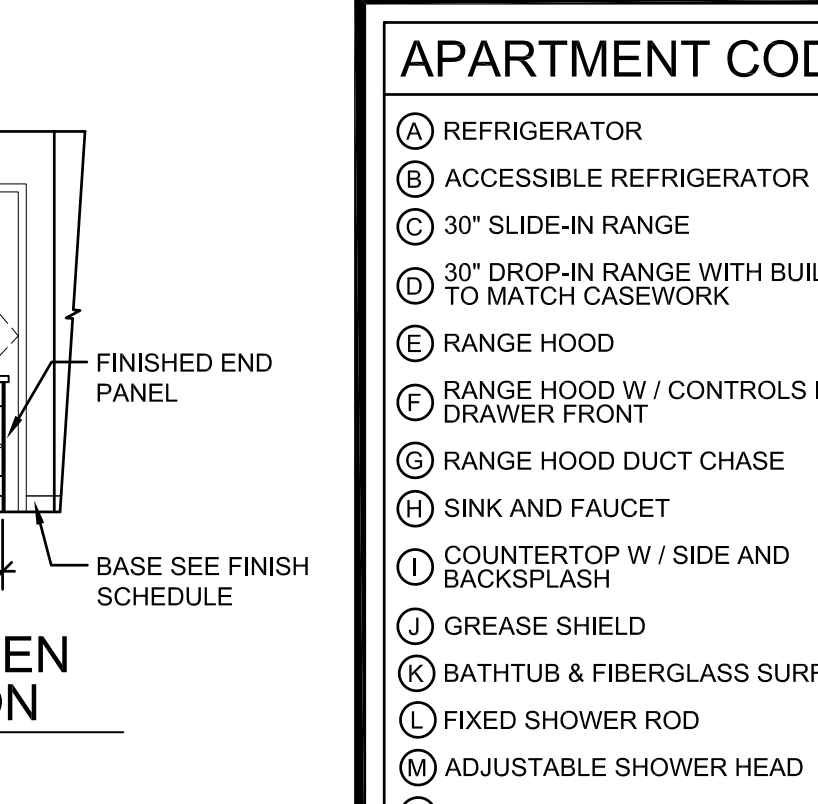
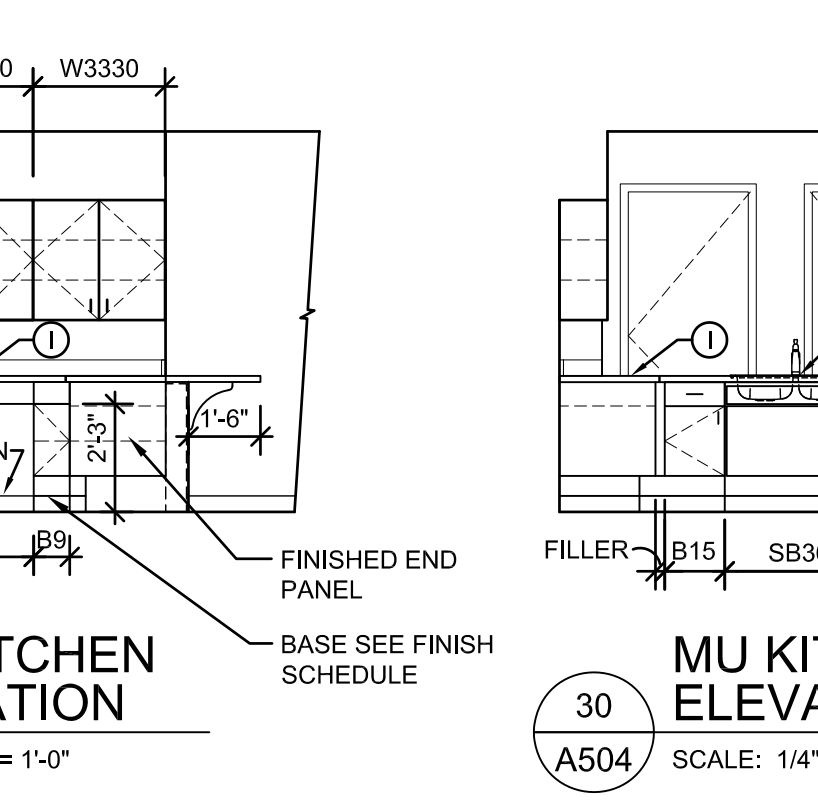
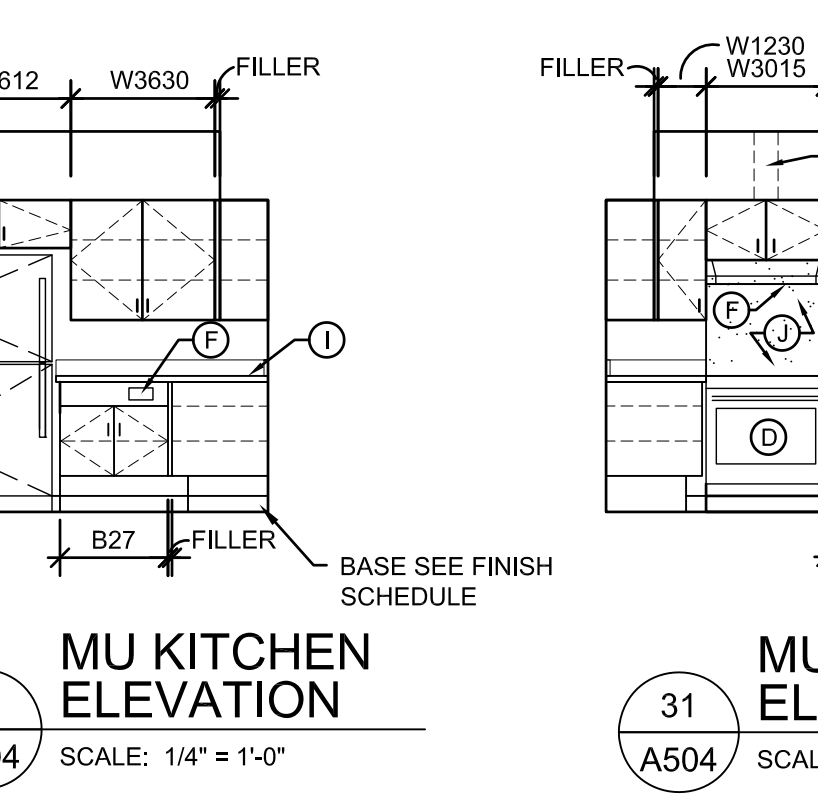
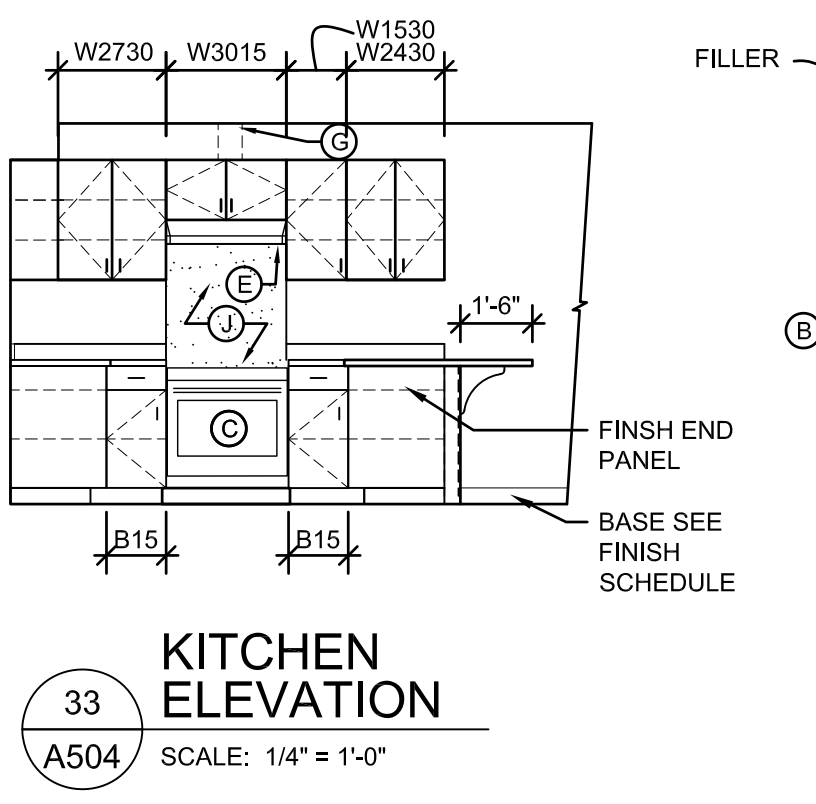
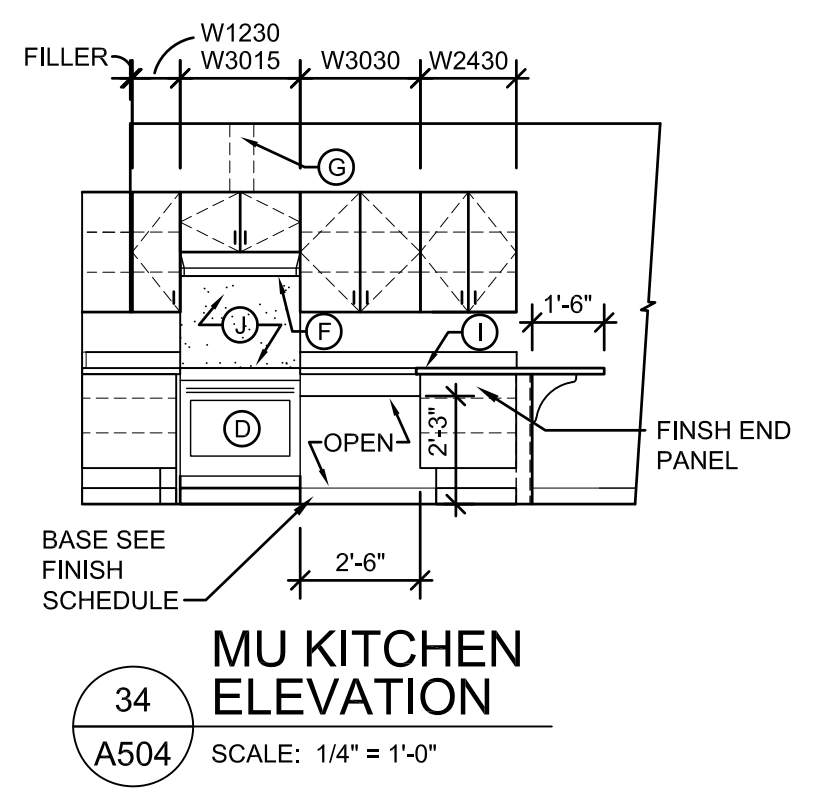
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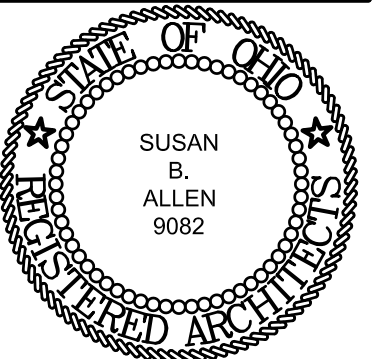
03/31/2023
DATE

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PROJECT NUMBER

A504
DRAWING NUMBER

APARTMENT CODED NOTES	
(A) REFRIGERATOR	(R) GRAB BAR
(B) ACCESSIBLE REFRIGERATOR	(S) REMOVABLE SHOWER SEAT
(C) 30" SLIDE-IN RANGE	(T) ADJUSTABLE SHELVING W/ BRACKETS (3 SHELVES)
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(J) GREASE SHIELD	(AA) CORNER GUARDS
(K) BATHTUB & FIBERGLASS SURROUND	(AB) ADJUSTABLE SHELF W/ RECESSED BRACKETS W/ 6 SHELVES
(L) FIXED SHOWER ROD	(AC) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
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(N) SURFACE MOUNTED MIRROR	(AE) DATA PROVIDER TIE-IN BOX
(O) 12" TOWEL BAR	
(P) TOILET	
(Q) TOILET PAPER HOLDER	





SUSAN B. ALLEN
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Expiration Date 12/31/2023

REVISIONS

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(A) REFRIGERATOR	(R) GRAB BAR
(B) ACCESSIBLE REFRIGERATOR	(S) REMOVABLE SHOWER SEAT
(C) 30" SLIDE-IN RANGE	(T) ADJUSTABLE SHELVING W/ BRACKETS (3 SHELVES)
(D) 30" DROP-IN RANGE WITH BUILT UP BASE TO MATCH CASEWORK	(U) ADJUSTABLE SHELVING W/ BRACKETS (4 SHELVES)
(E) RANGE HOOD	(V) ADJUSTABLE SHELVING W/ BRACKETS (5 SHELVES)
(F) RANGE HOOD W / CONTROLS IN FALSE DRAWER FRONT	(W) FIXED SHOWER HEAD
(G) RANGE HOOD DUCT CHASE	(X) MEDICINE CABINET
(H) SINK AND FAUCET	(Y) FIBERGLASS SHOWER SURROUND
(I) COUNTERTOP W / SIDE AND BACKSPASH	(Z) BLINDS
(J) GREASE SHIELD	(AA) CORNER GUARDS
(K) BATHTUB & FIBERGLASS SURROUND	(AB) ADJUSTABLE SHELF W/ RECESSED BRACKETS W/ 6 SHELVES
(L) FIXED SHOWER ROD	(AC) CULTURED MARBLE COUNTER W/ INTEGRAL VANITY SINK BACK & SIDE SPLASHES
(M) ADJUSTABLE SHOWER HEAD	(AD) ELECTRICAL PANEL
(N) SURFACE MOUNTED MIRROR	(AE) DATA PROVIDER TIE-IN BOX
(O) 12" TOWEL BAR	
(P) TOILET	
(Q) TOILET PAPER HOLDER	

INTERIOR ELEVATIONS
GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
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03/31/2023

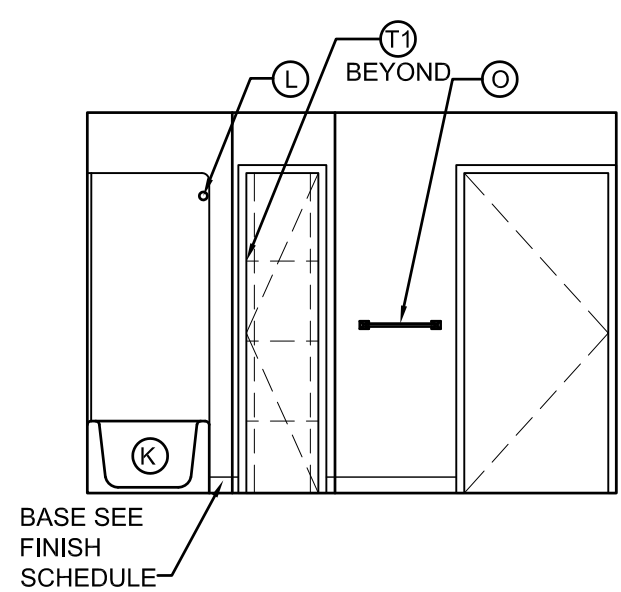
DATE

82A21

PROJECT NUMBER

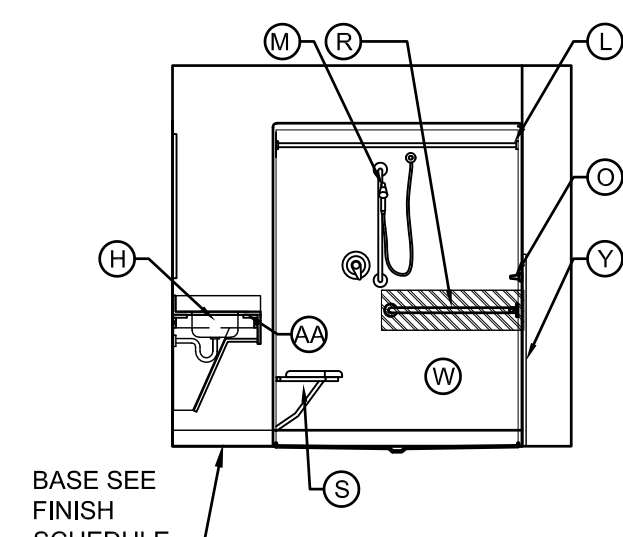
A505

DRAWING NUMBER

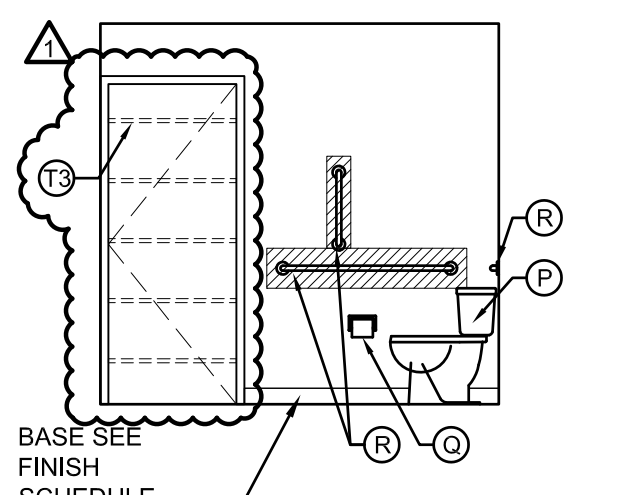


8 BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"

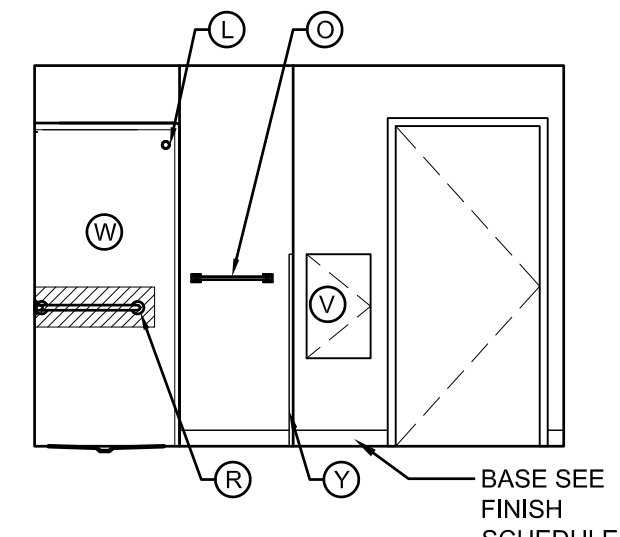
7 NOT USED
A505 SCALE: 1/2" = 1'-0"



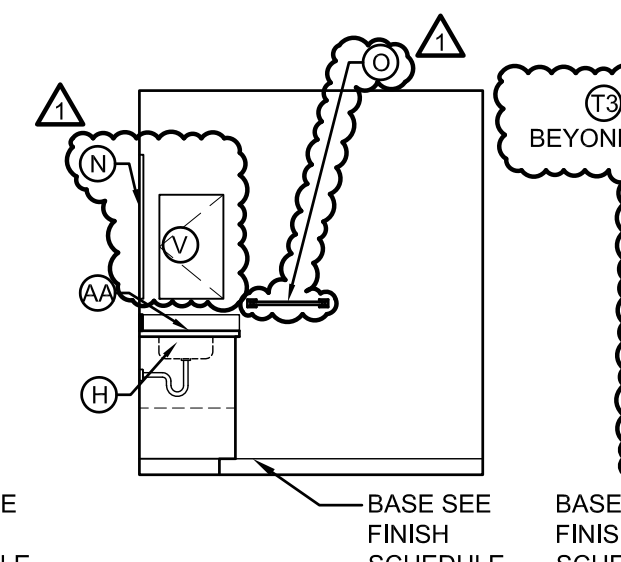
6 MU BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"



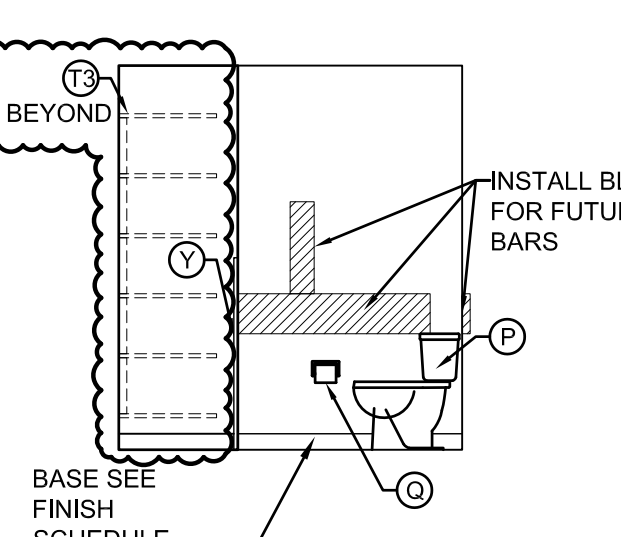
5 MU BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"



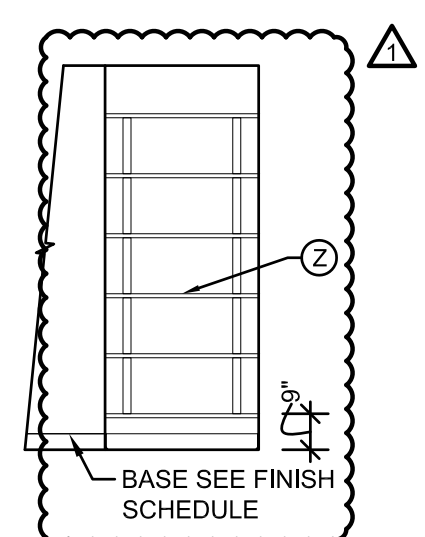
4 MU BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"



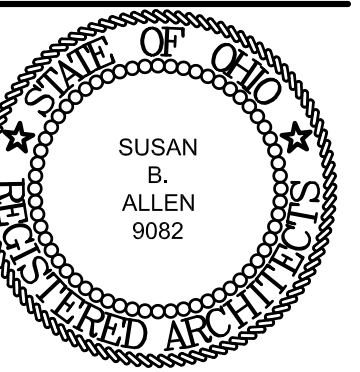
3 BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"



2 MU BATHROOM ELEVATION
A505 SCALE: 1/4" = 1'-0"



1 MU SHELVING ELEVATION
A505 SCALE: 1/4" = 1'-0"



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ENLARGED COMMON AREA PLANS
GERMANTOWN CROSSING
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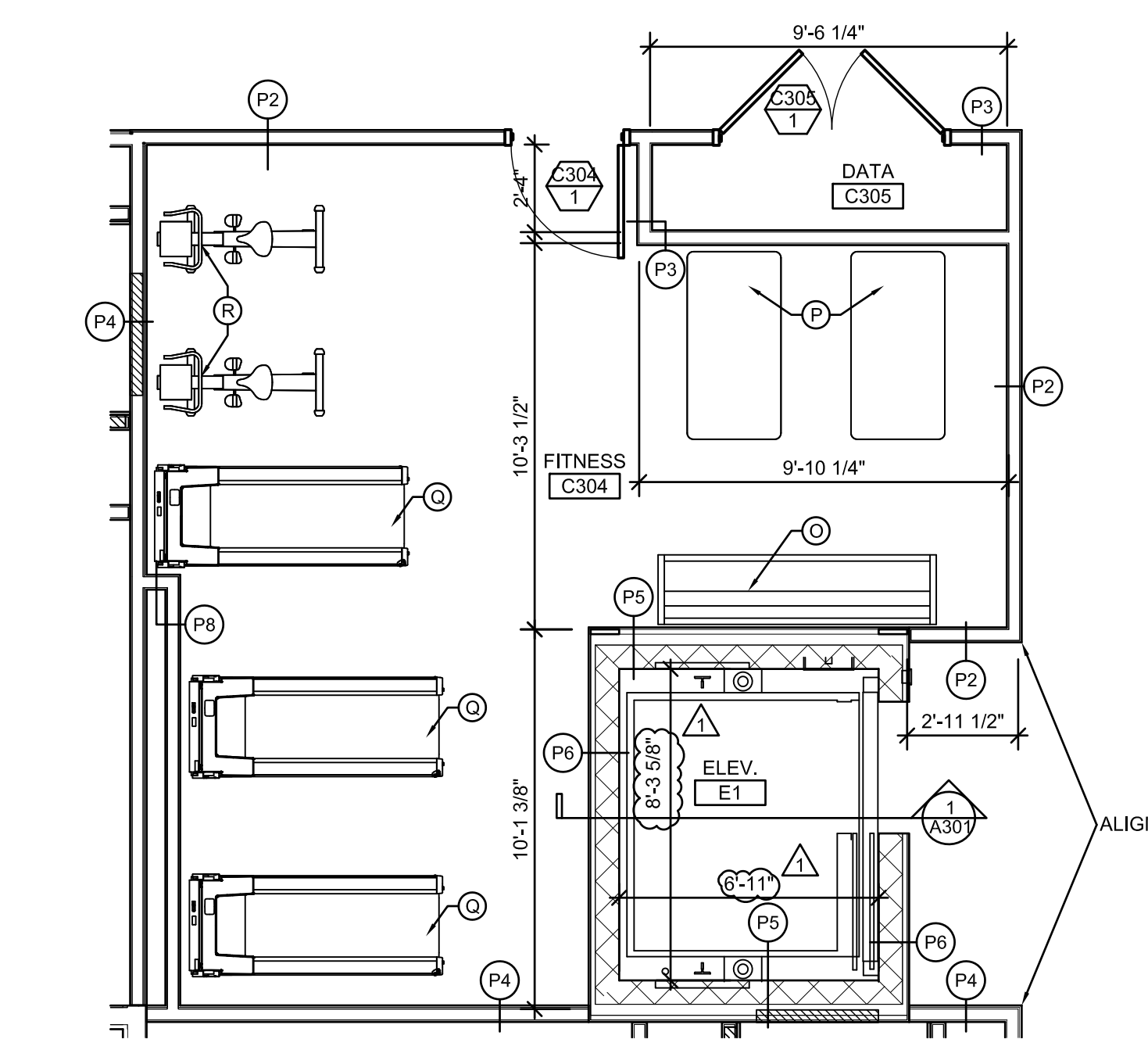
PROJECT NUMBER

A506
DRAWING NUMBER

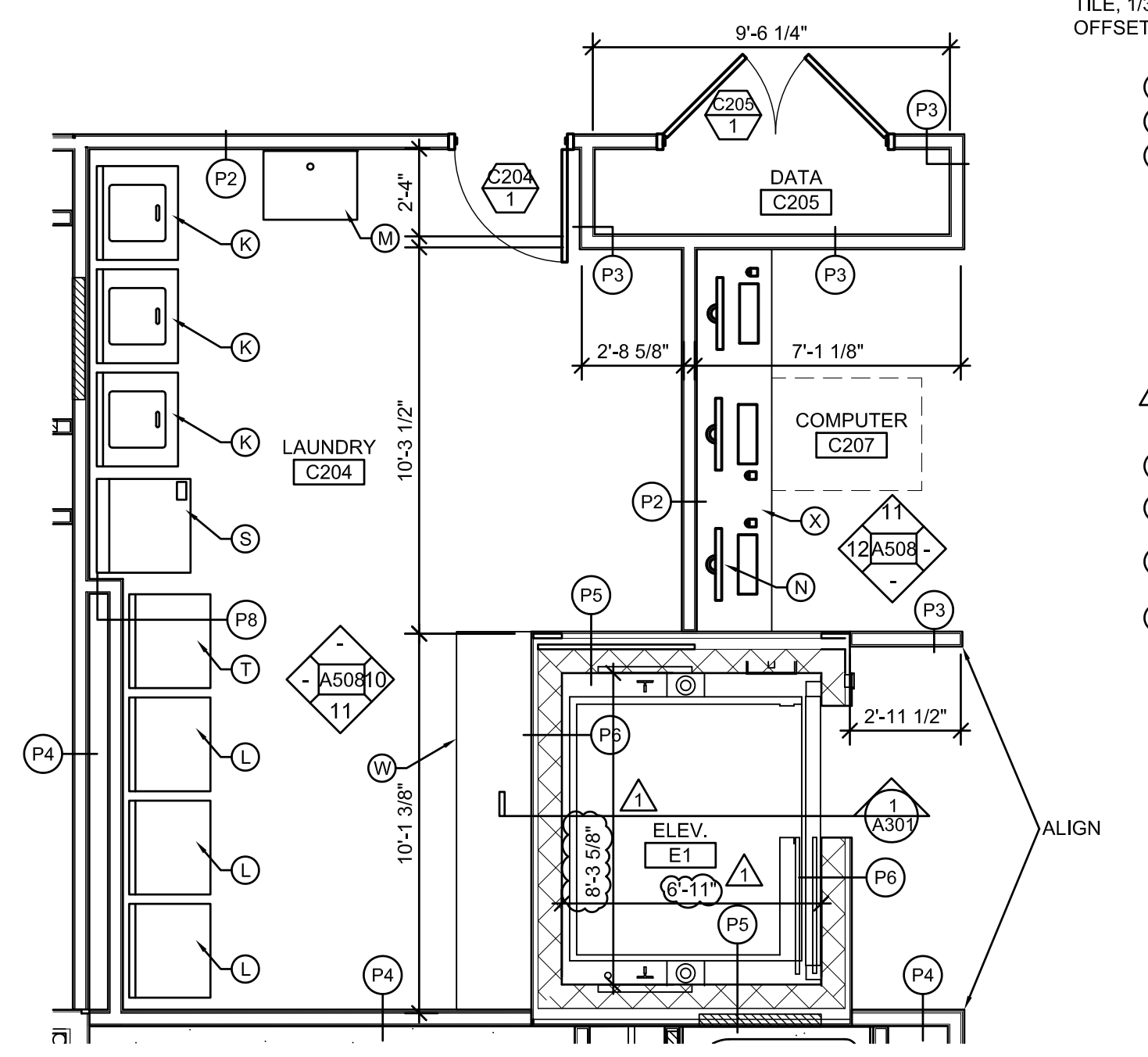
COMMON AREA CODED NOTES

- | | | | | |
|--|--|-----------------------------|--|--|
| (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 & 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) | | |

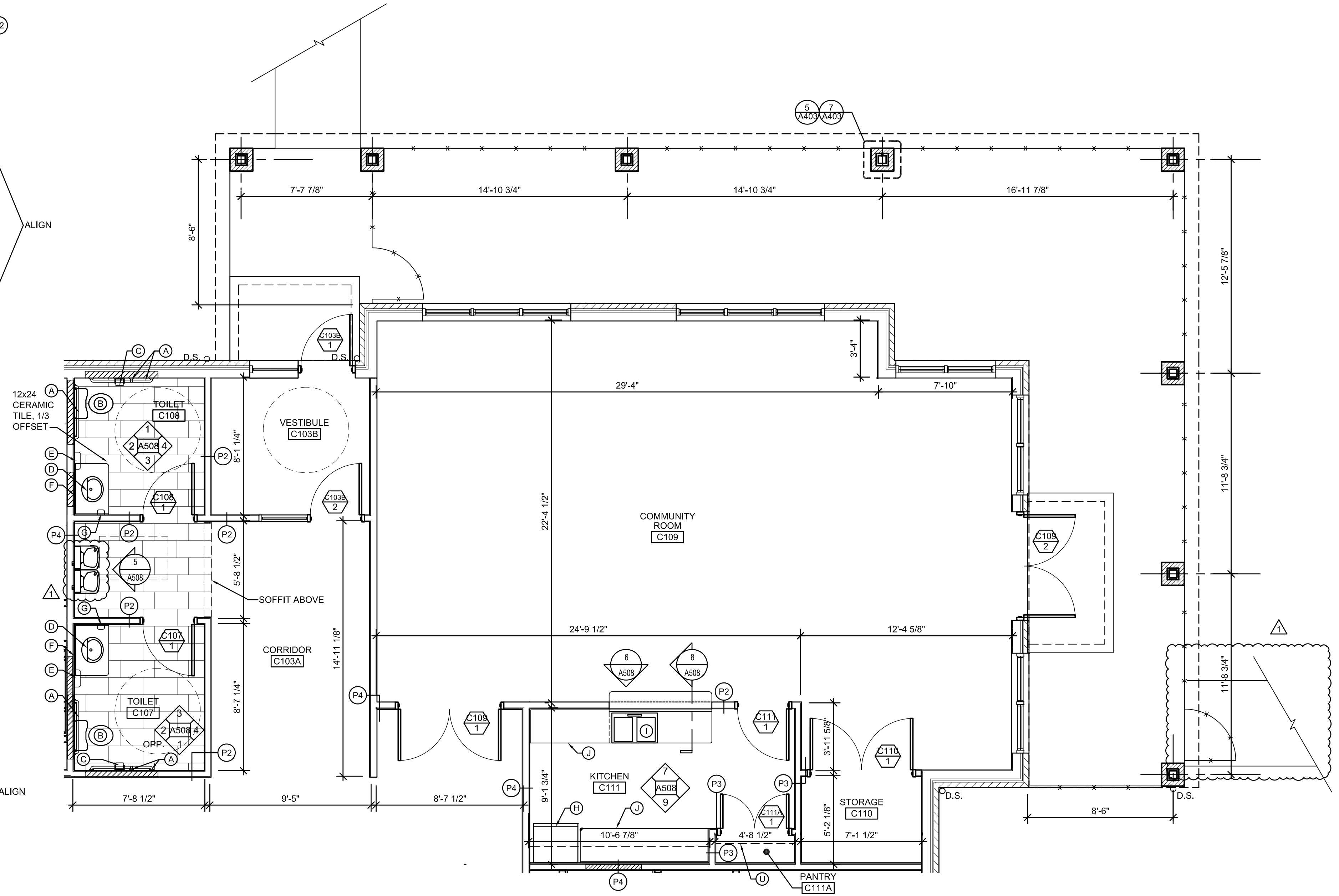
GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



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"

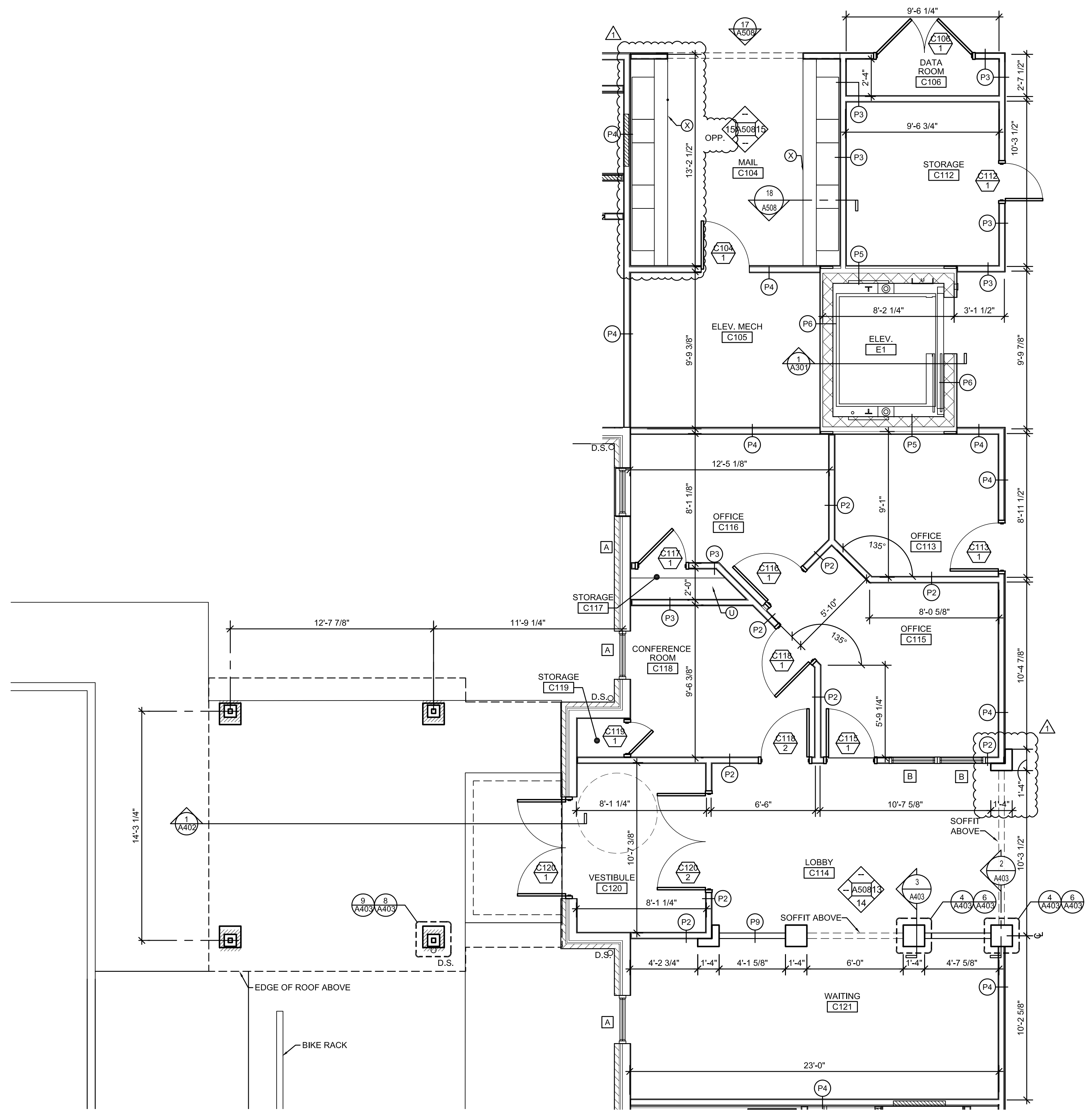
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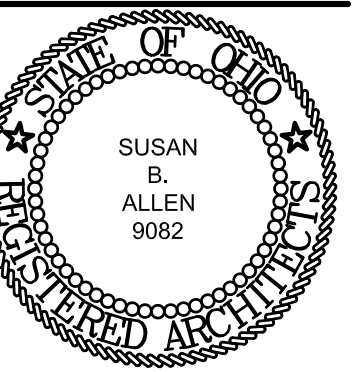
COMMON AREA CODED NOTES

- | | | | | |
|--|--|-----------------------------|---------------------------------|--|
| (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) | (Y) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.) |
| (E) PAPER TOWEL HOLDER | (J) SS-1 COUNTERTOP, SIDE & BACKSPLASH | (O) FREE WEIGHT RACK (OFCI) | (U) STEP MACHINE (OFCI) | |

GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



1 ENLARGED 1ST FLOOR LOBBY, OFFICES & DATA
A507 SCALE: 1/4" = 1'-0"



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ENLARGED COMMON AREA PLANS

GERMANTOWN CROSSING
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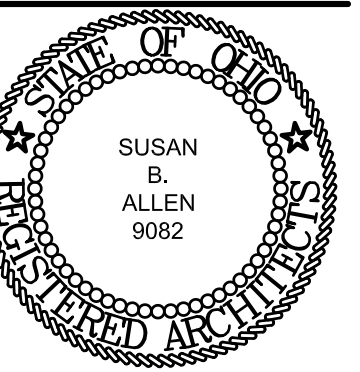


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PROJECT NUMBER

A507
DRAWING NUMBER



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DATE

82A21

PROJECT NUMBER

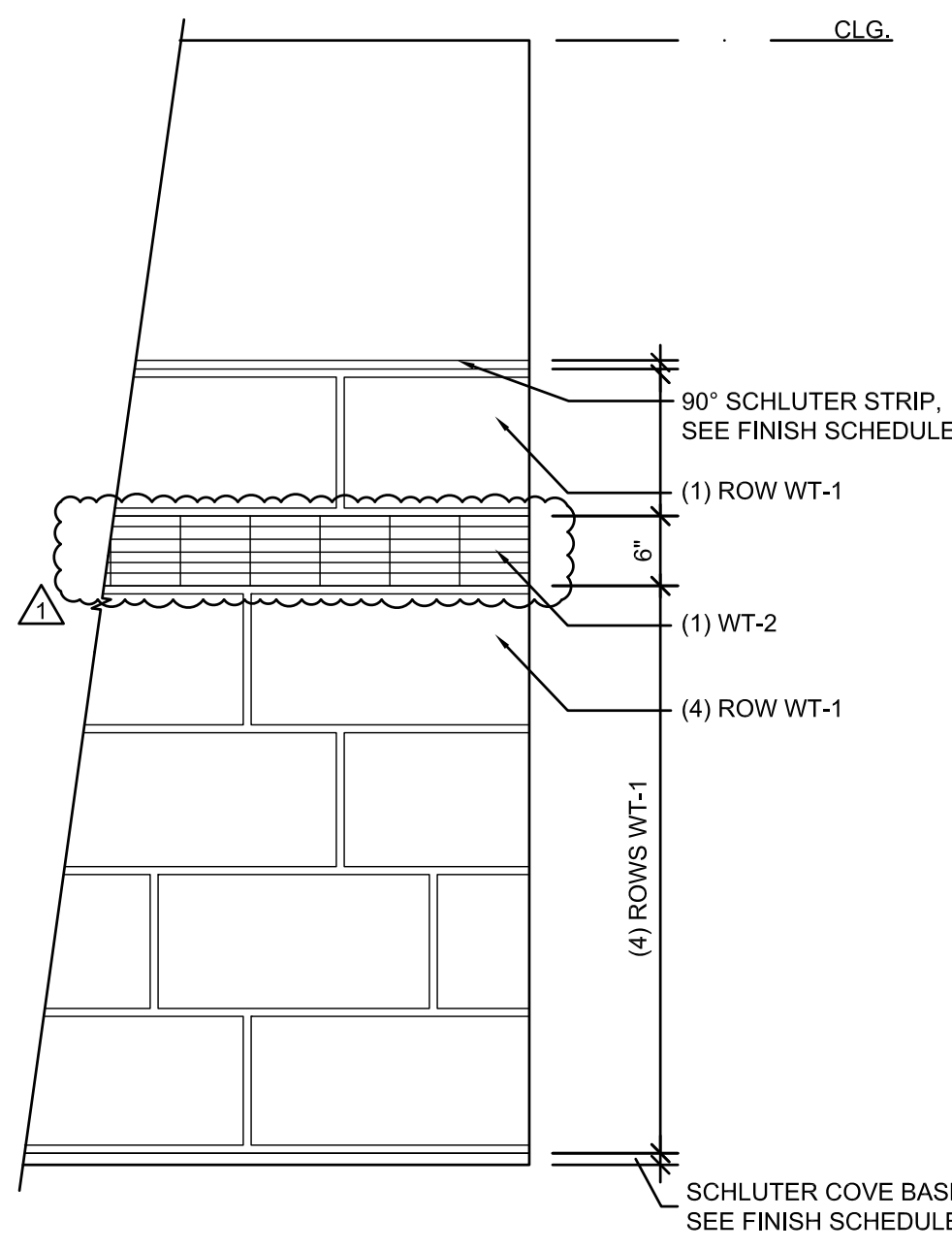
A508

DRAWING NUMBER

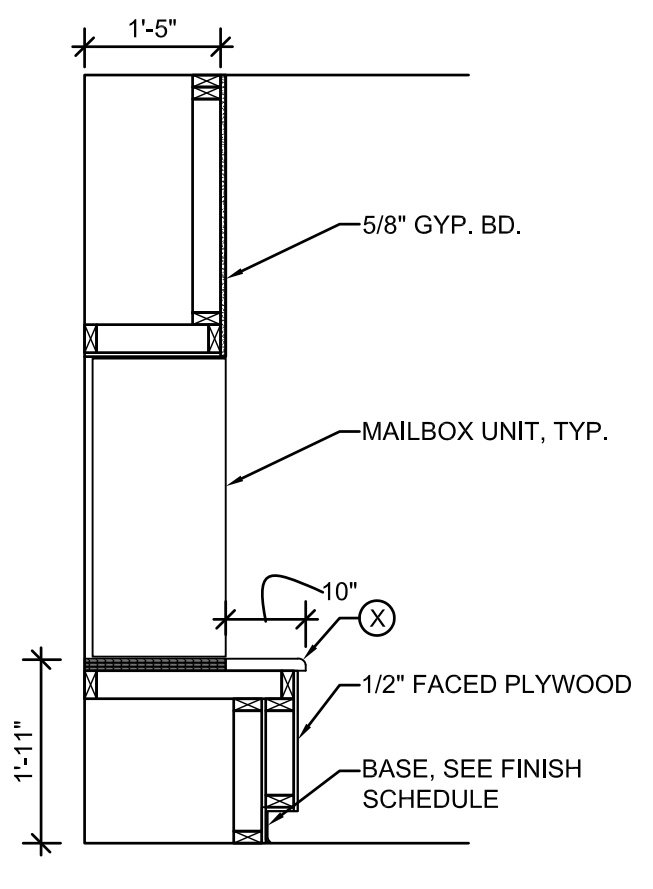
COMMON AREA CODED NOTES

- | | | | | |
|--|---------------------------------------|-----------------------------|--|---------------------------------------|
| (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 & BACKSPASH |
| (C) TOILET PAPER HOLDER | (H) ACCESSIBLE REFRIGERATOR | (M) MOP SINK | (S) FRONT LOAD WASHER (OFCI) | (X) SS-3 COUNTERTOP, SIDE & BACKSPASH |
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| (E) PAPER TOWEL HOLDER | (J) SS-1 COUNTERTOP, SIDE & BACKSPASH | (O) FREE WEIGHT RACK (OFCI) | (U) ADJUSTABLE SHELVING ON BRACKETS (5 TYP.) | |
| | | (P) STEP MACHINE (OFCI) | | |

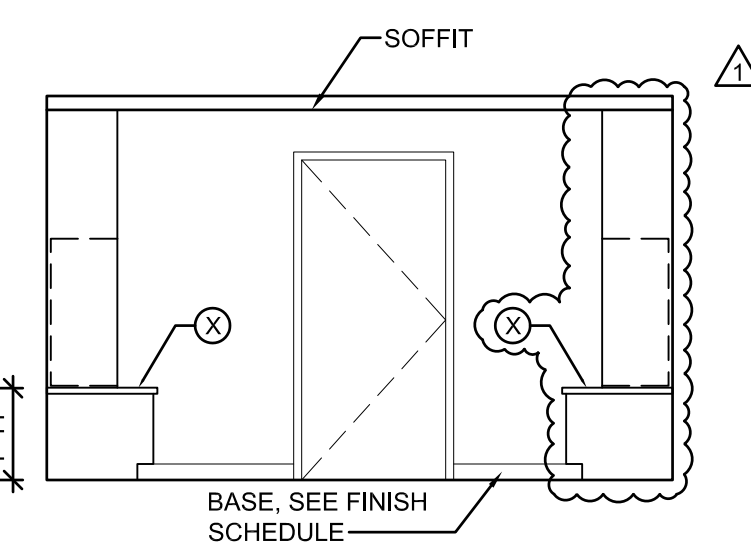
GENERAL NOTE : ALL ELEVATOR CONTROLS SHALL COMPLY WITH ACCESSIBILITY STANDARDS



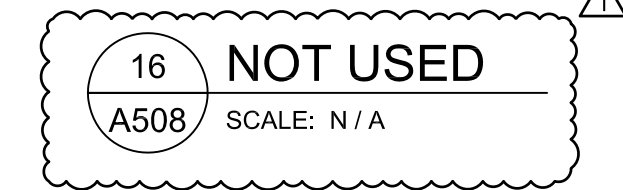
19 WALL TILE DETAIL
A508 SCALE: 3/4" = 1'-0"



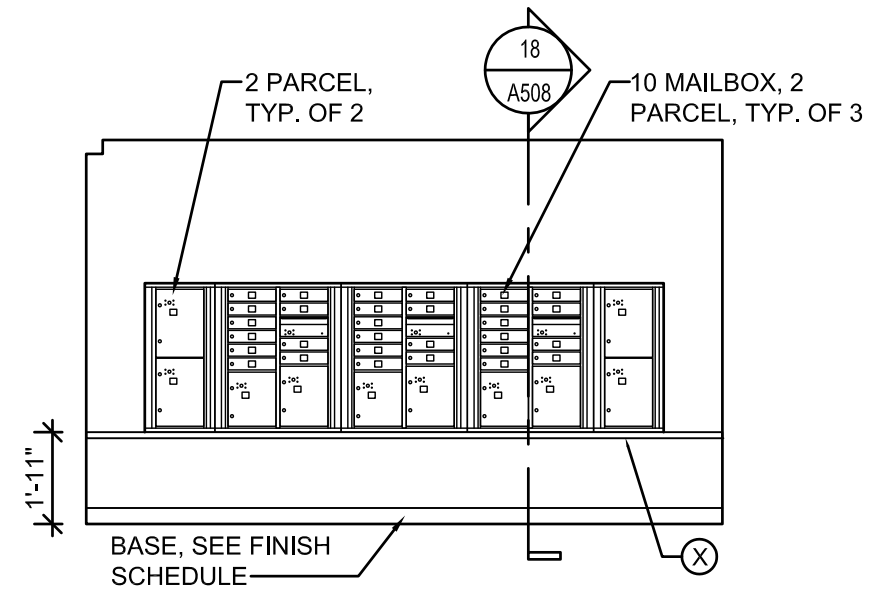
18 MAIL
A508 SCALE: 1/2" = 1'-0"



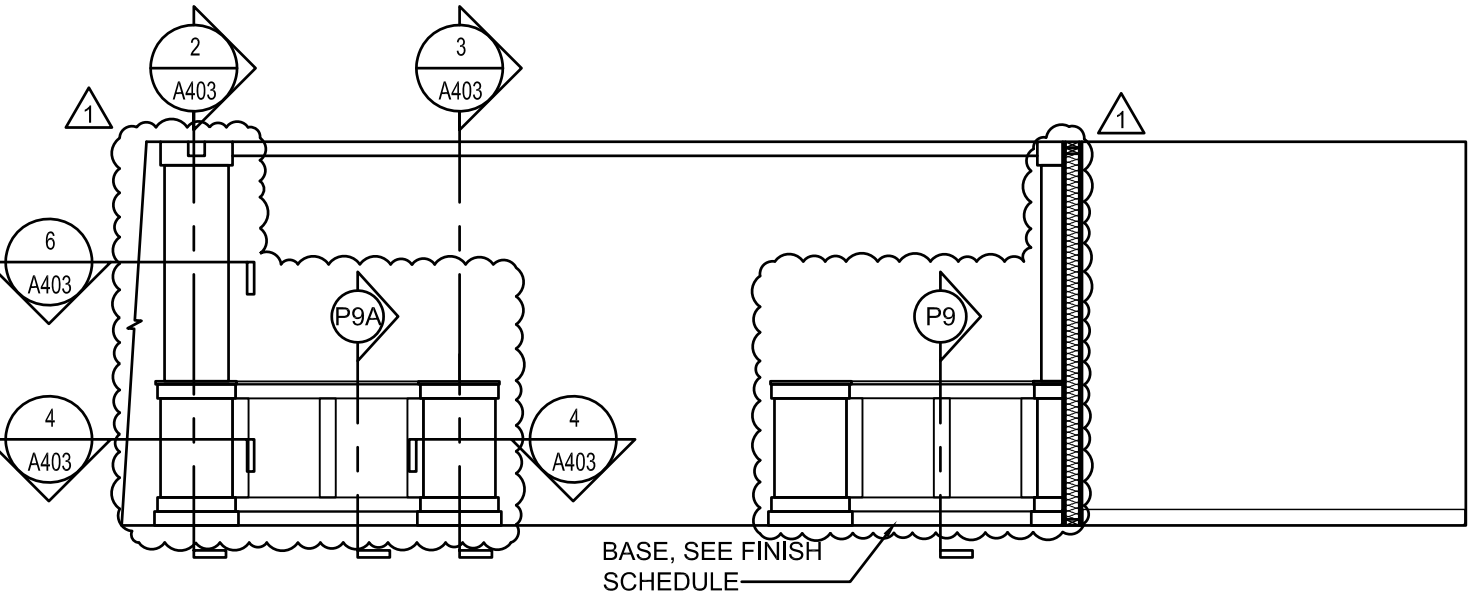
17 MAIL
A508 SCALE: 1/4" = 1'-0"



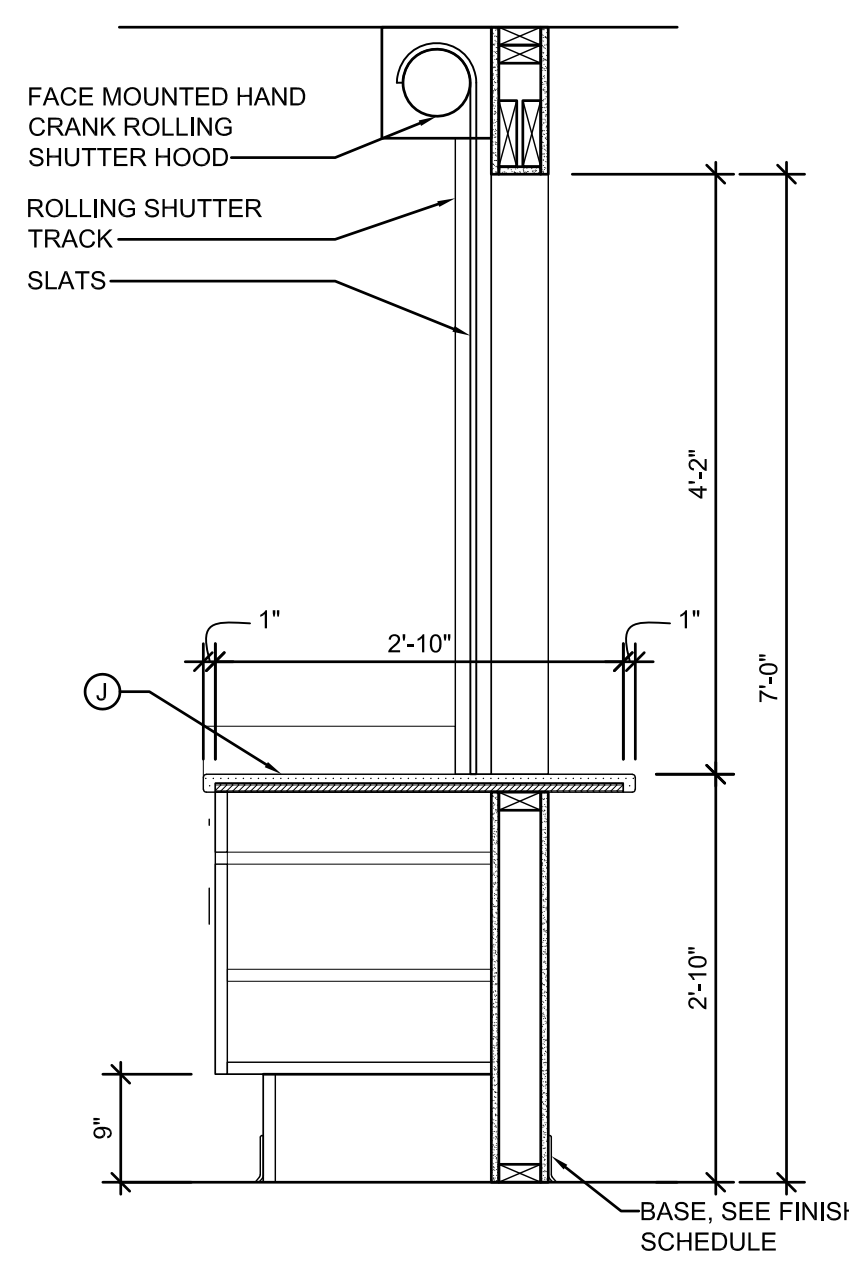
16 NOT USED
A508 SCALE: N/A



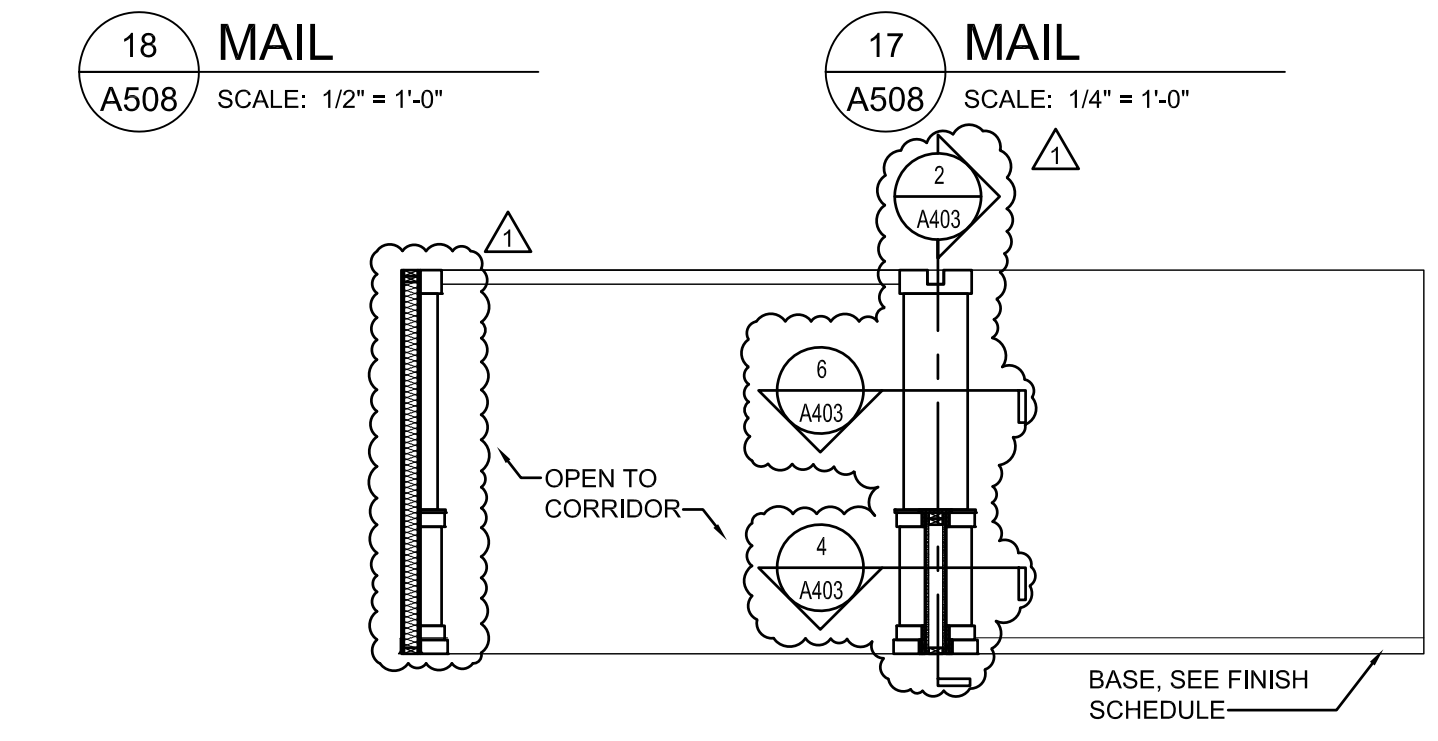
15 MAIL
A508 SCALE: 1/4" = 1'-0"



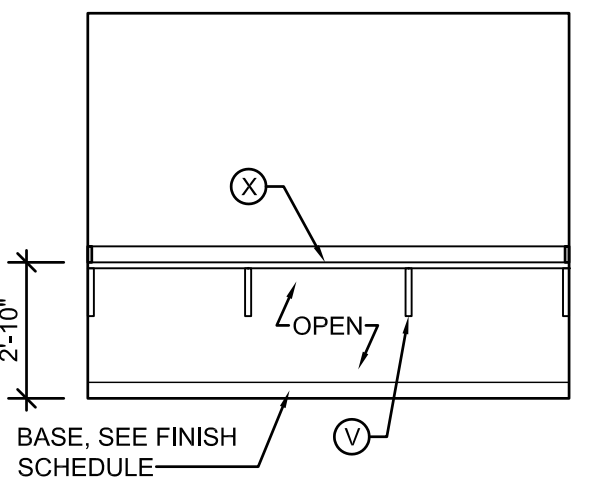
14 LOBBY
A508 SCALE: 1/4" = 1'-0"



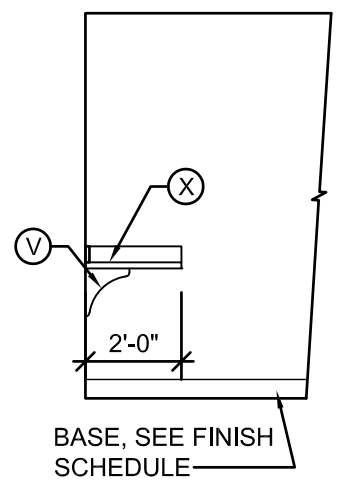
8 CABINET DETAIL
A508 SCALE: 3/4" = 1'-0"



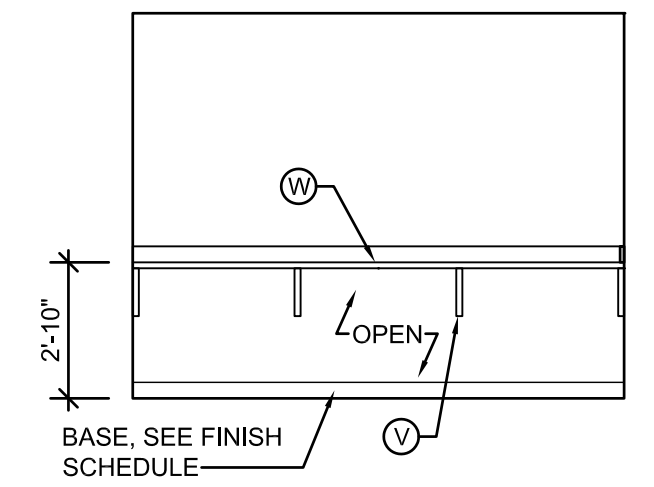
13 LOBBY
A508 SCALE: 1/4" = 1'-0"



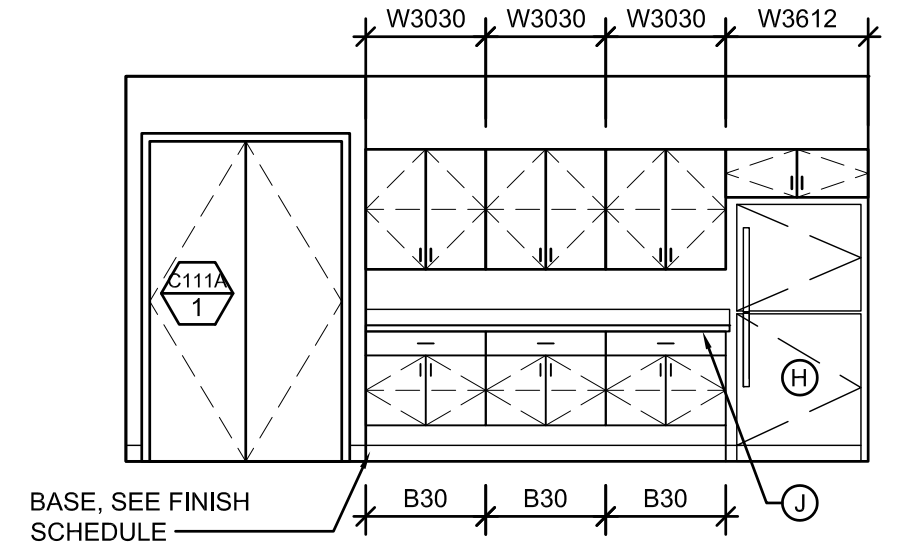
12 COMPUTER
A508 SCALE: 1/4" = 1'-0"



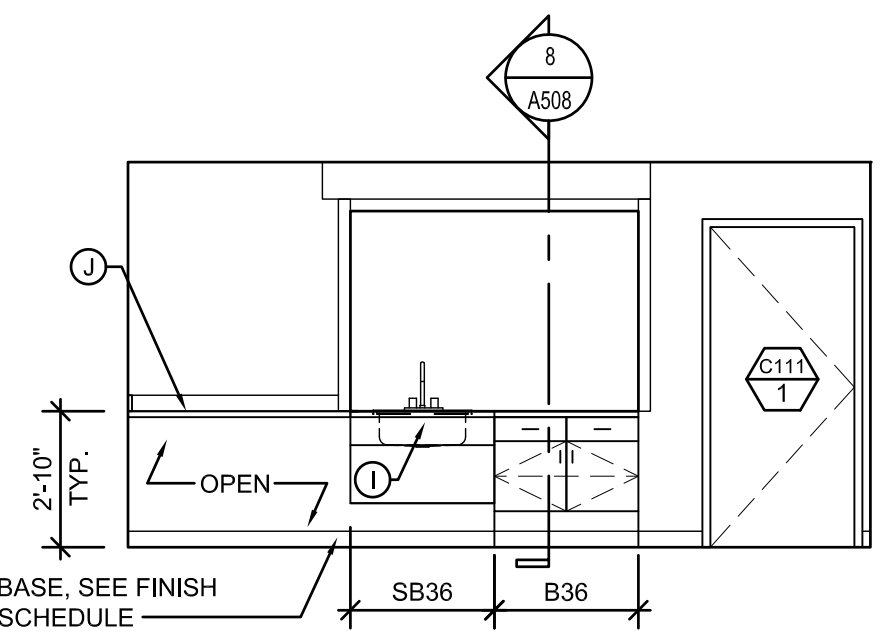
11 COUNTERTOP
A508 SCALE: 1/4" = 1'-0"



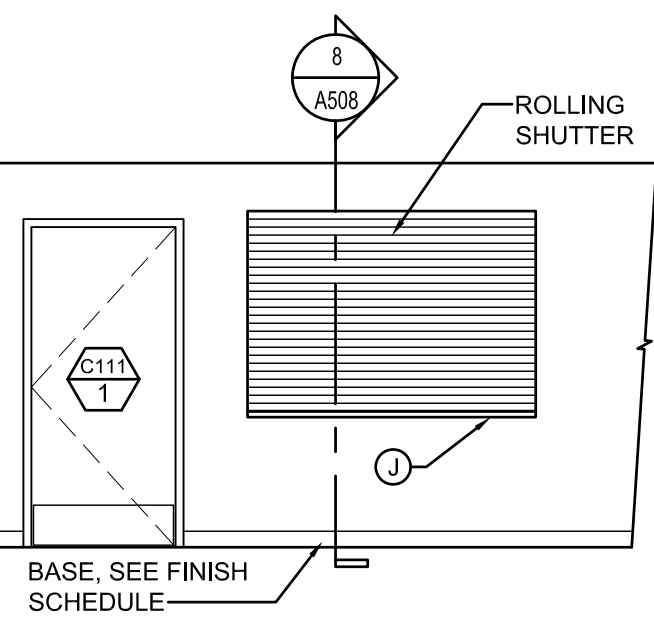
10 LAUNDRY COUNTERTOP
A508 SCALE: 1/4" = 1'-0"



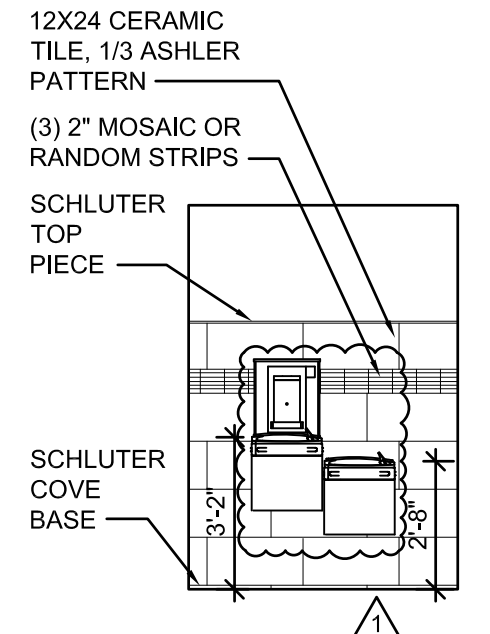
9 KITCHEN
A508 SCALE: 1/4" = 1'-0"



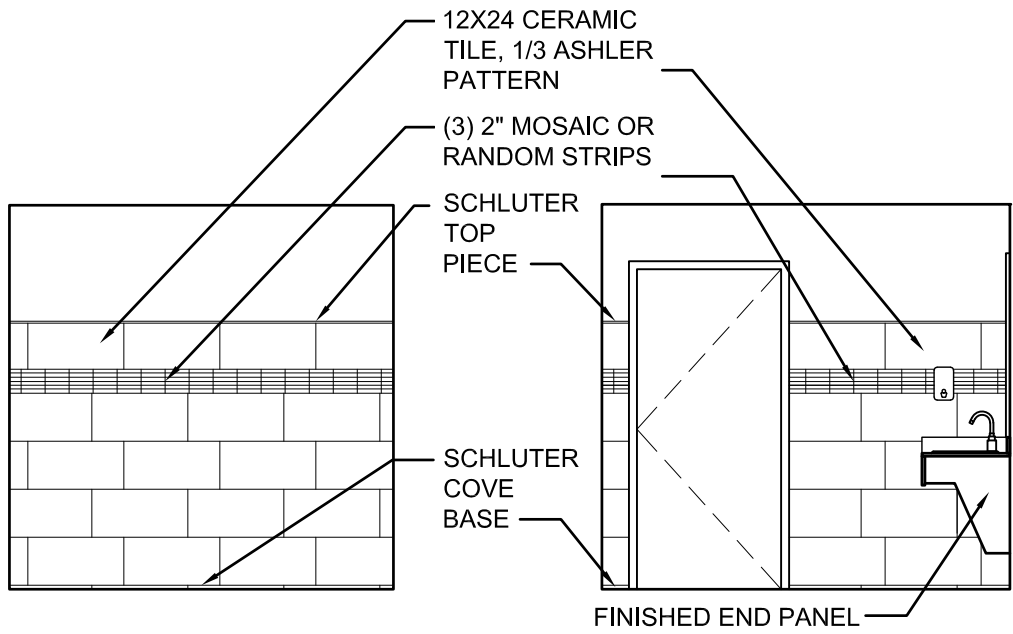
7 KITCHEN
A508 SCALE: 1/4" = 1'-0"



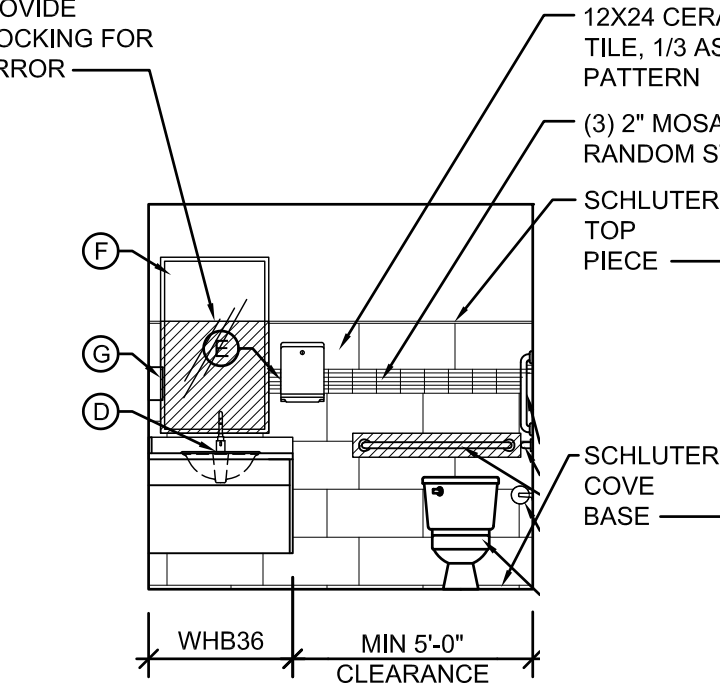
6 KITCHEN
A508 SCALE: 1/4" = 1'-0"



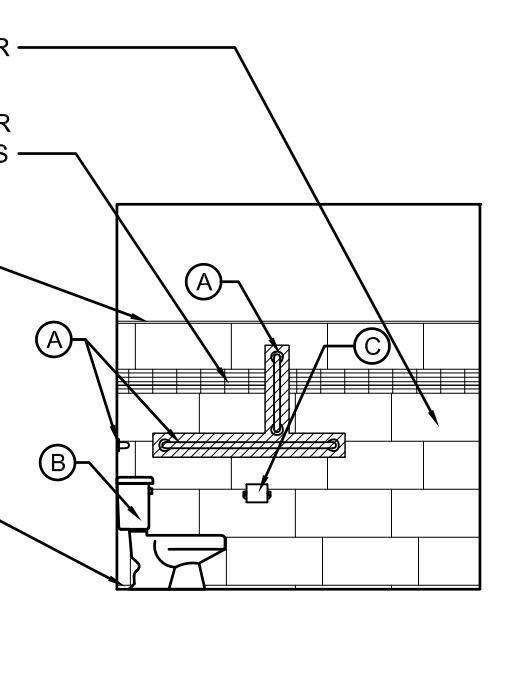
5 DRINKING FOUNTAIN
A508 SCALE: 1/4" = 1'-0"



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



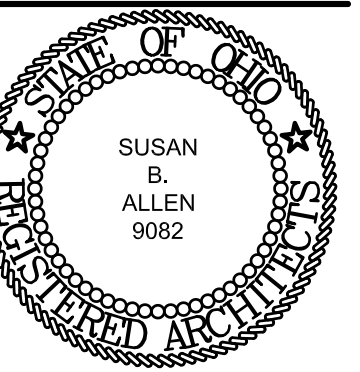
3 TOILET ROOM
A508 SCALE: 1/4" = 1'-0"



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

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

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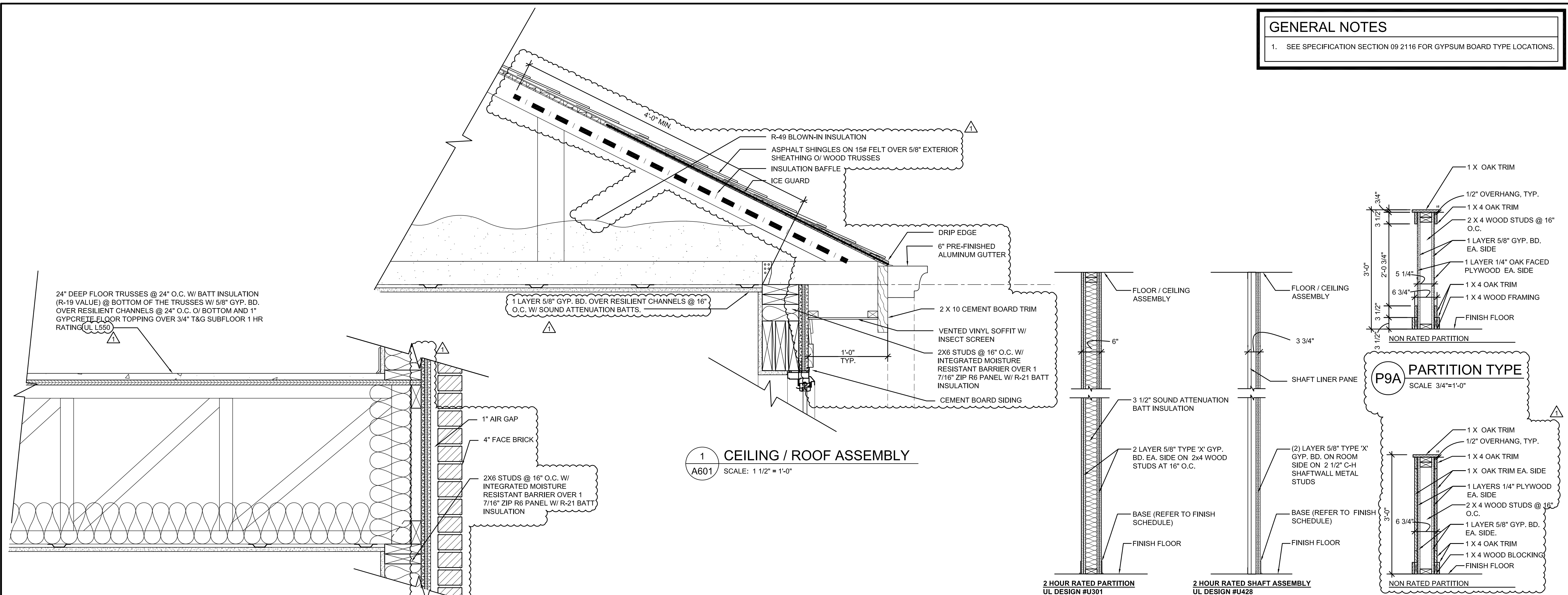


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REVISIONS

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



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

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

2 HOUR RATED PARTITION
UL DESIGN #U301

2 HOUR RATED SHAFT ASSEMBLY
UL DESIGN #U428

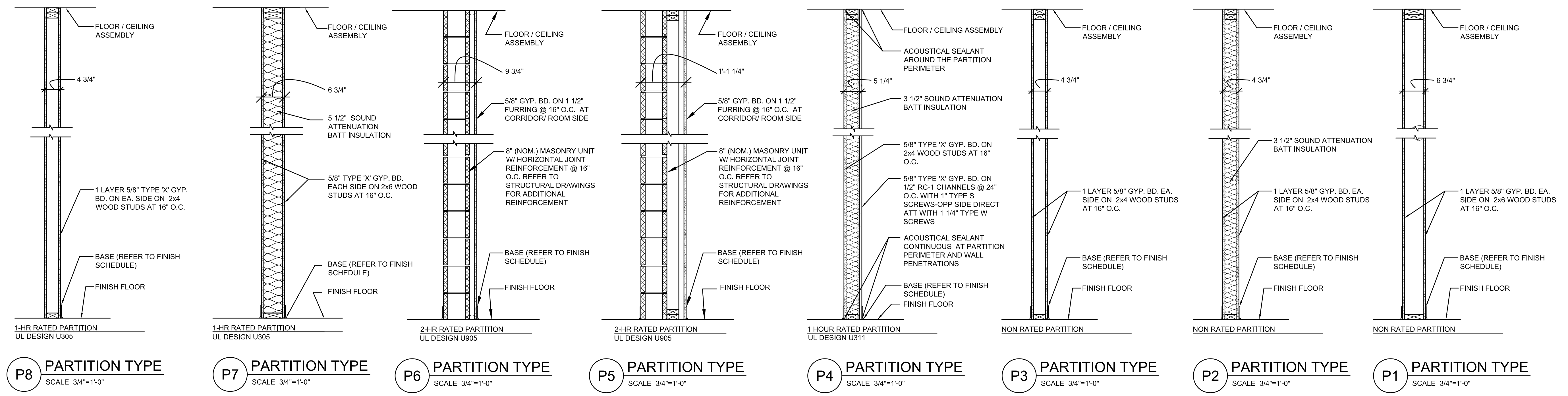
P9A PARTITION TYPE
SCALE 3/4"=1'-0"

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

P11 PARTITION TYPE
SCALE 3/4"=1'-0"

P10 PARTITION TYPE
SCALE 3/4"=1'-0"

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



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

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

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

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

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

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

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

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

PARTITION TYPES
GERMANTOWN CROSSING
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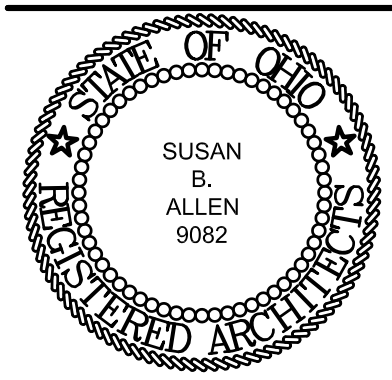
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03/31/2023
DATE

82A21
PROJECT NUMBER

A601
DRAWING NUMBER

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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 - TYPICAL 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	--	D	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
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 - MU 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
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 - TYPICAL 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	PANTRY	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
C04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
C04A/1	LINEN	1'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	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 - MU 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	--	D	PRE-HUNG
D04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	PRE-HUNG
D04A/1	LINEN	1'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	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 - TYPICAL 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	LINEN	2'-6"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	PRE-HUNG
F04/1	BATHROOM	3'-0"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	B	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	--	D	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	3'-0"	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 - MU 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	PANTRY	2'-8"	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
G04A/1	LINEN	2'-8"	1 3/8"	6'-8"	D	MCD	--	1	WD	--	2 / A604	1 / A604	--	C	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
G16/1	LINEN	3'-0"	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

GENERAL DOOR NOTES

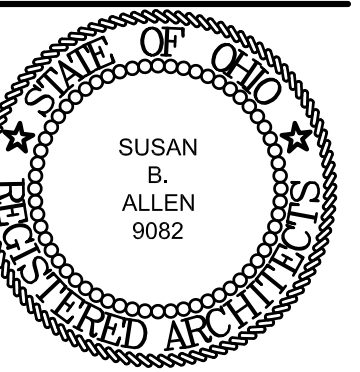
- DOOR CLOSERS FOR COMMON AREAS SUCH AS RESTROOMS, MAIN ENTRY & ACCESSIBLE UNIT ENTRY DOOR MUST HAVE DELAYED ACTION FEATURE THAT HOLDS DOOR OPEN FOR A MINIMUM OF 5 SECOND.

DOOR LEGEND:

MARK	DESCRIPTION
INSUL. HM	INSULATED HOLLOW METAL
WD	SOLID CORE WOOD
AL	ALUMINUM STOREFRONT
HM	HOLLOW METAL
MCD	SOLID CORE MOLDED COMPOSITE DOOR
STL	STEEL
GL	GLASS

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	45 MIN.	4 / A604	3 / A604	--	12	--
C102/1	TRASH COMPACTOR	PR. 4'-0"	1 3/4"	7'-0"	A	INSUL. HM	--	1	HM	60 MIN.	14 / A604	13 / A604	12 / A604	6	--
C102/2	TRASH COMPACTOR	3'-0"	1 3/4"	7'-0"	A	HM	--	1	HM	60 MIN.	4 / A604	3 / A604	--	5	--
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	--	7	--
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	--</					



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GLASS TYPES

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

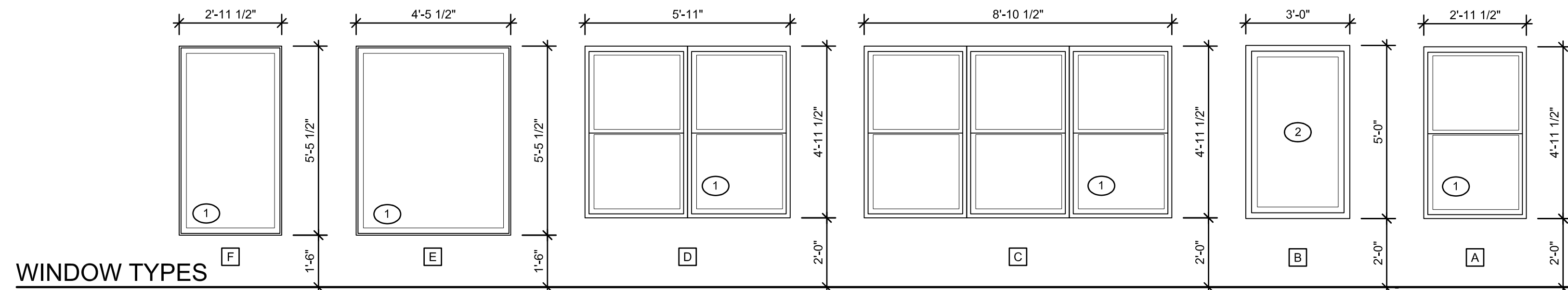
GENERAL NOTES

- 1. SEE PARTITION TYPES ON A601 FOR ADDITIONAL WALL INFORMATION

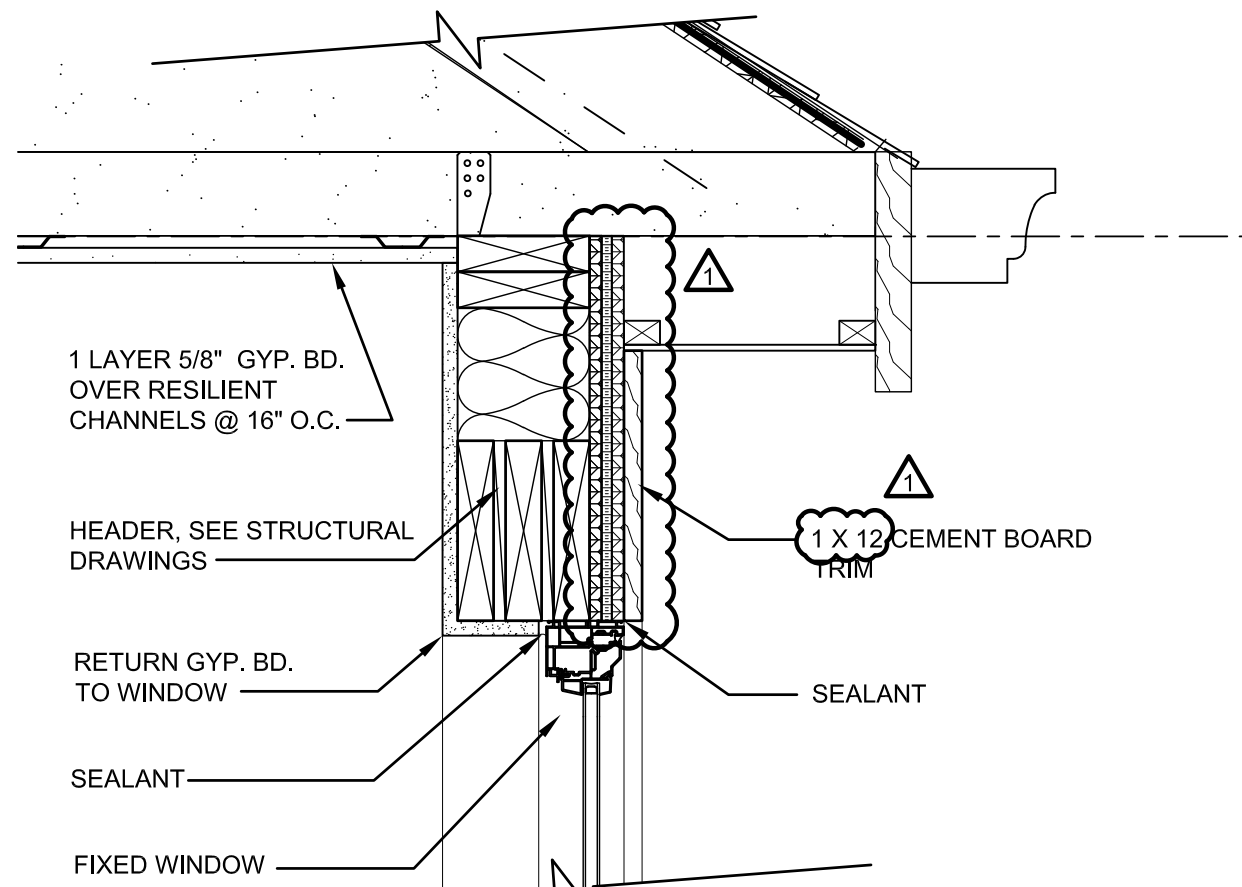
WINDOW SCHEDULE

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, 1B / A404	--
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	-

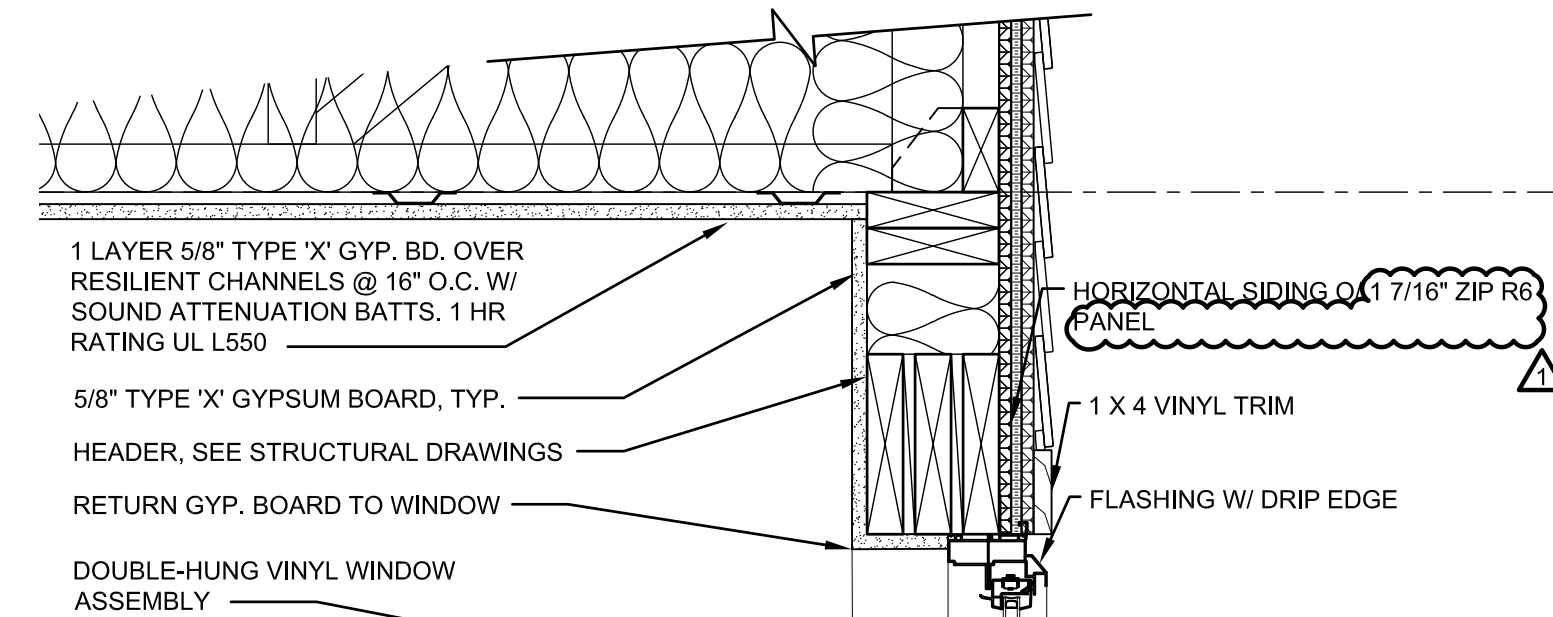
NOTE:
1. VINYL WINDOWS: U-VALUE 0.3
2. SEALED INSULATED GLASS: U-VALUE 0.28
3. ALL WINDOWS ARE TO HAVE BLINDS.



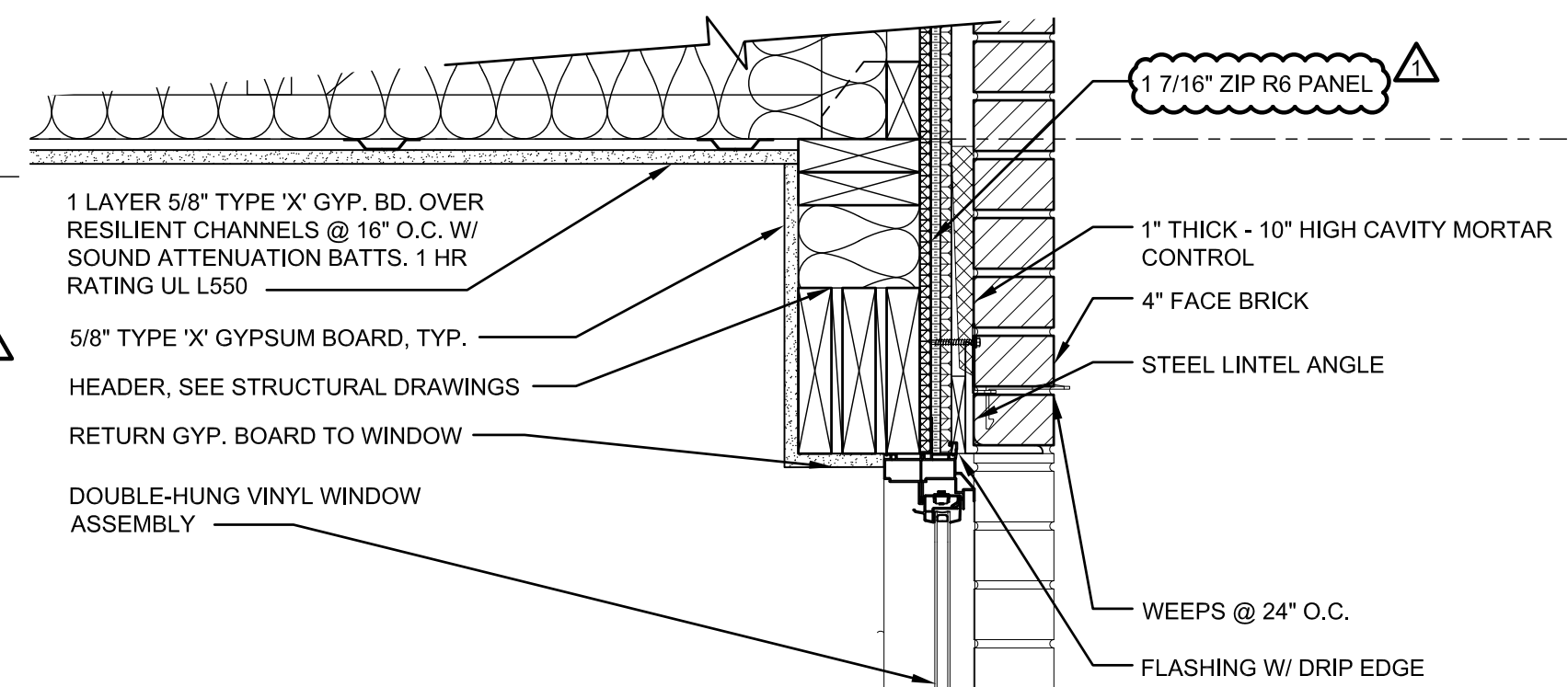
WINDOW TYPES



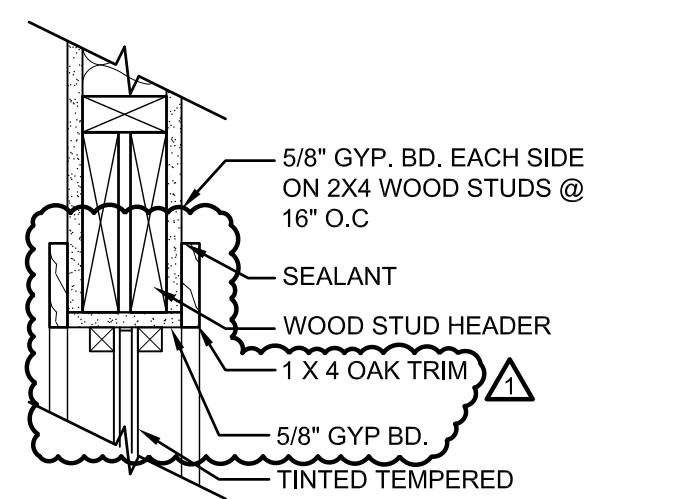
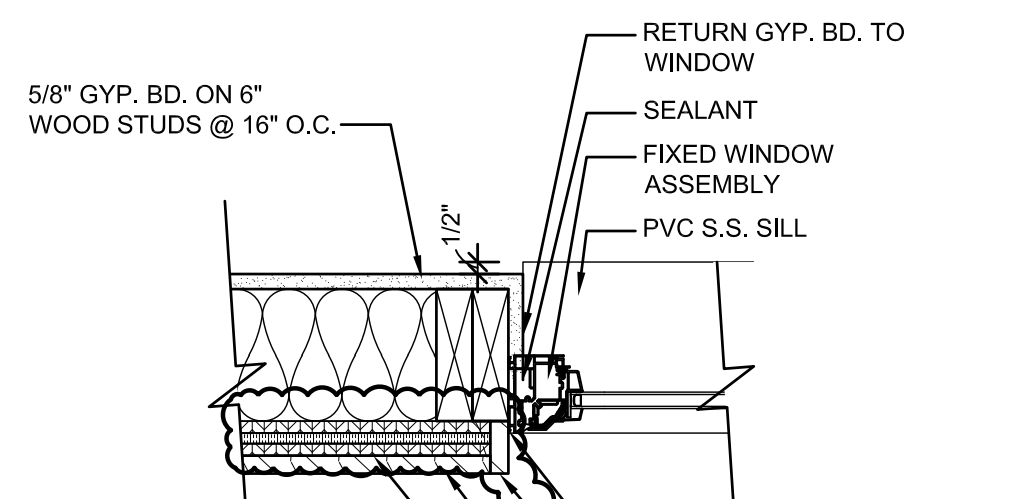
13 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



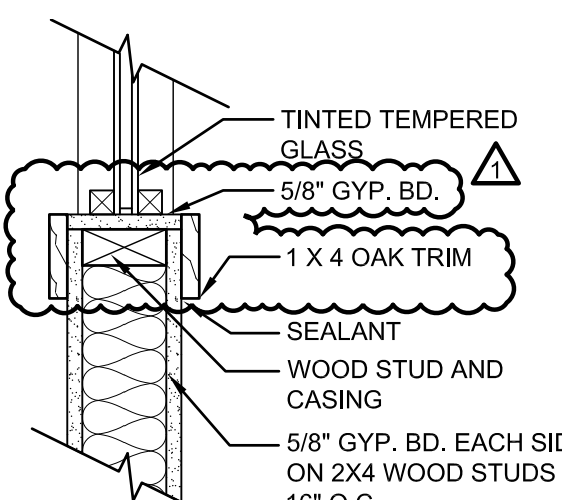
6 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



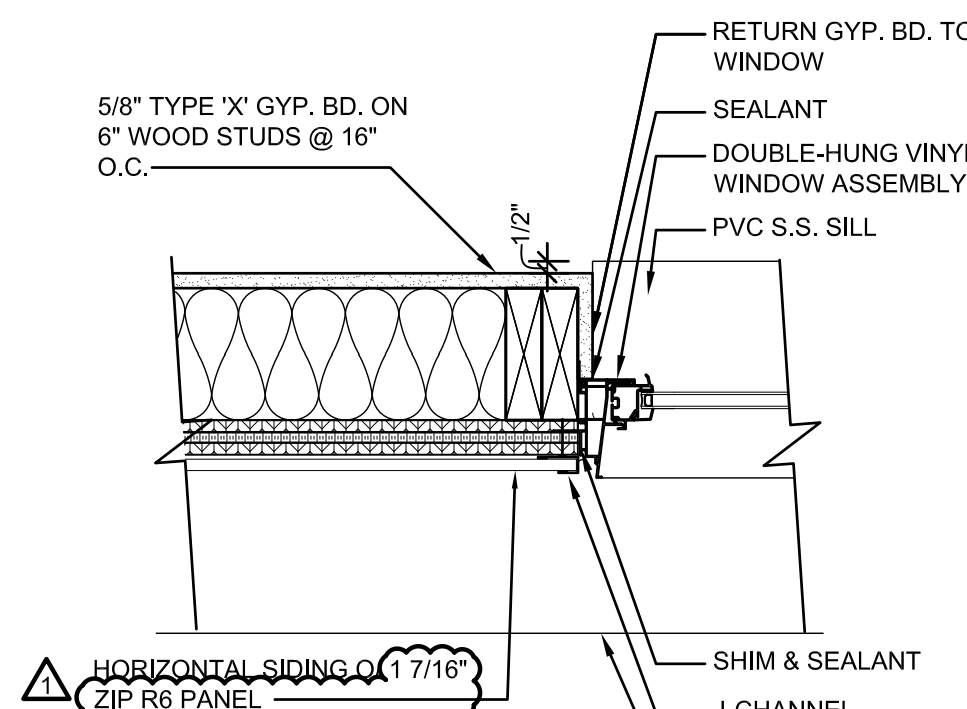
3 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



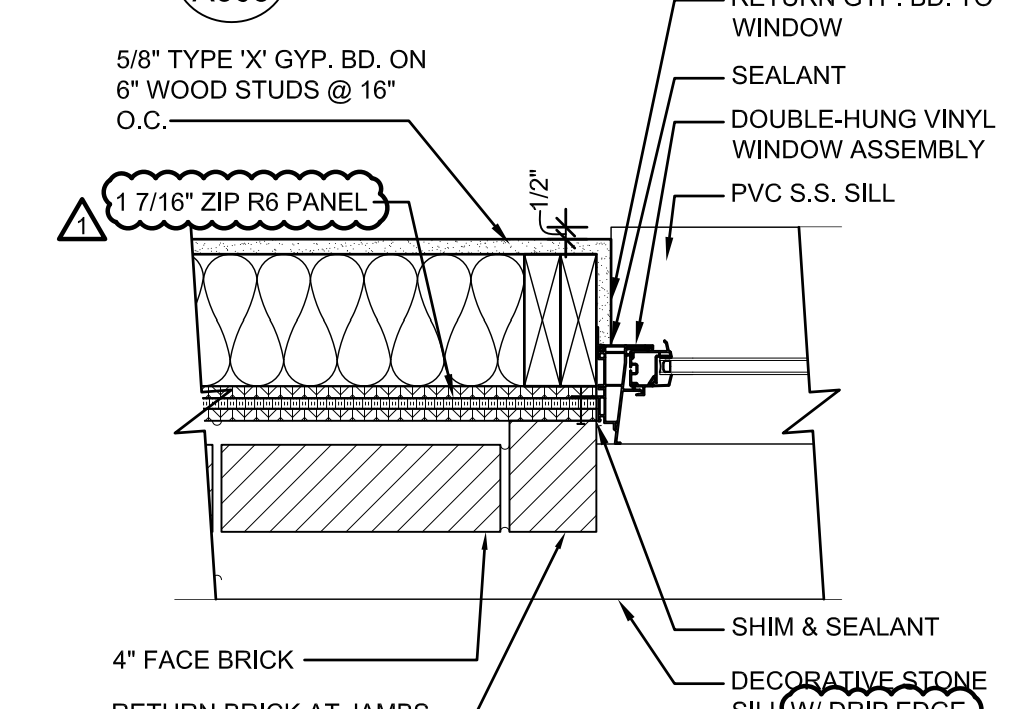
10 HEAD DETAIL
A603 SCALE: 1 1/2" = 1'-0"



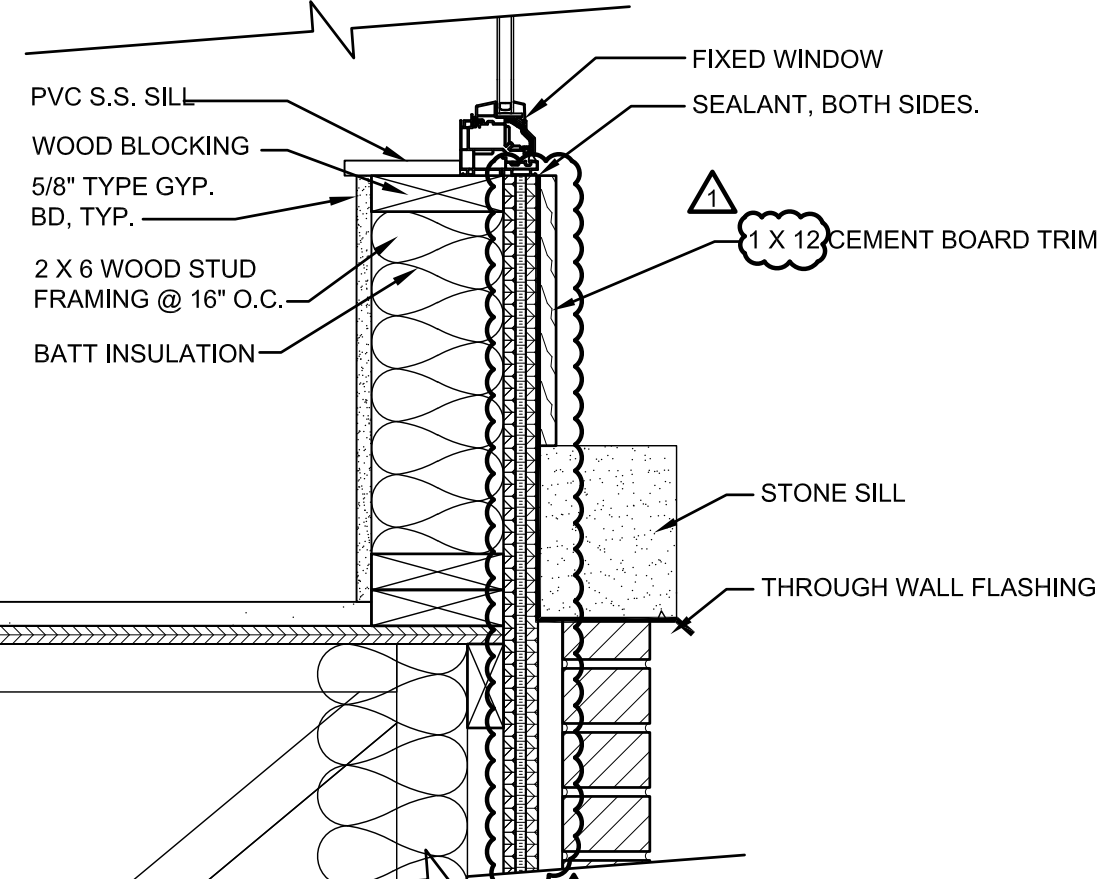
8 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



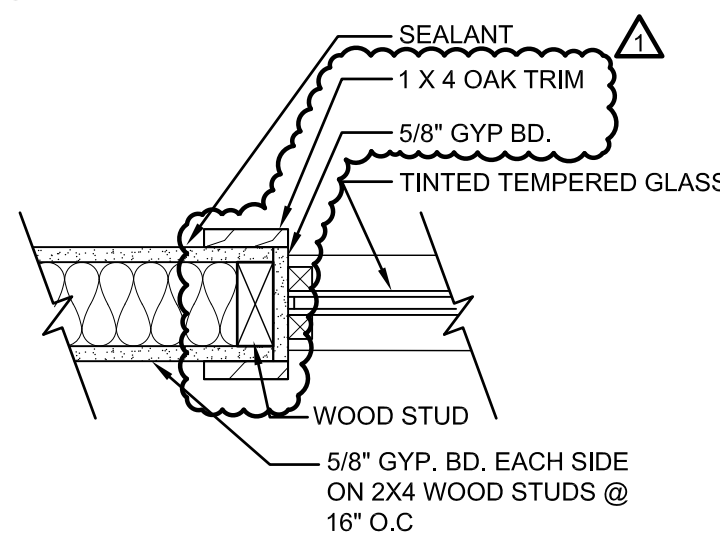
5 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



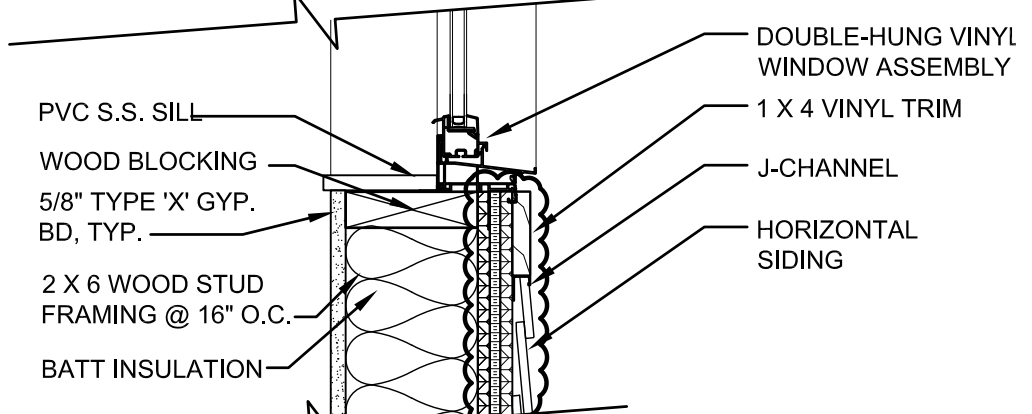
2 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



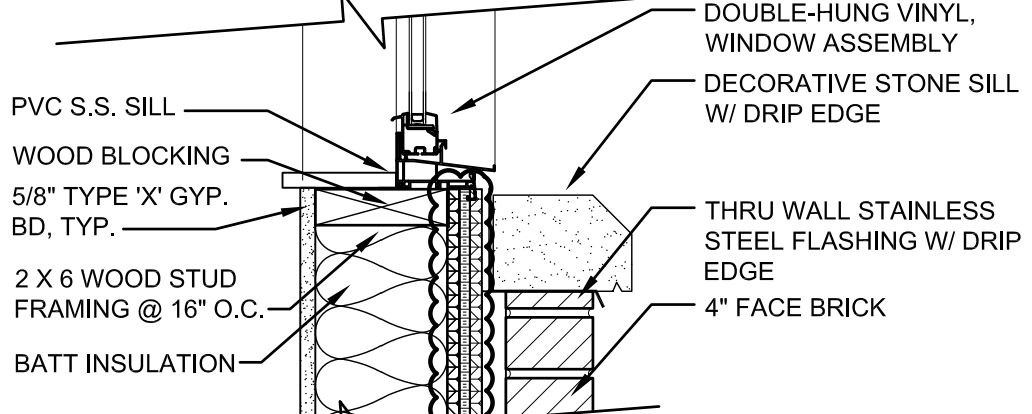
11 SILL DETAIL
A603 SCALE: 1 1/2" = 1'-0"



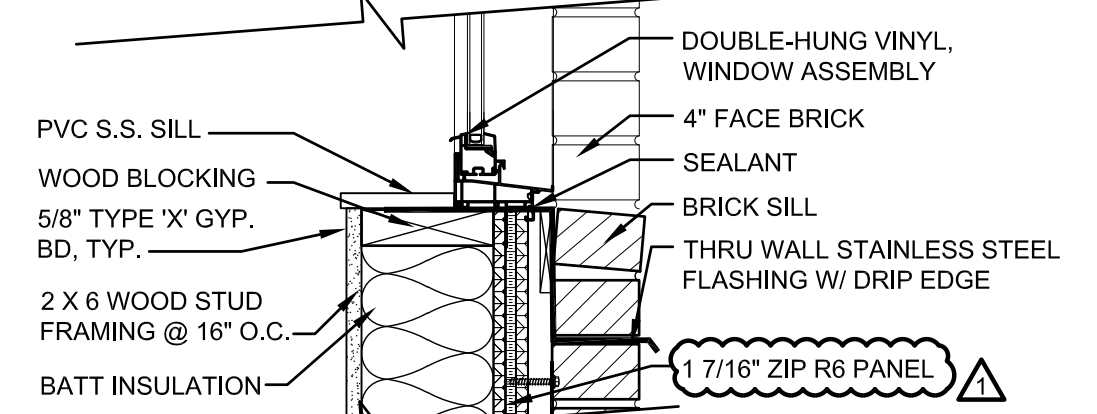
9 JAMB DETAIL
A603 SCALE: 1 1/2" = 1'-0"



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



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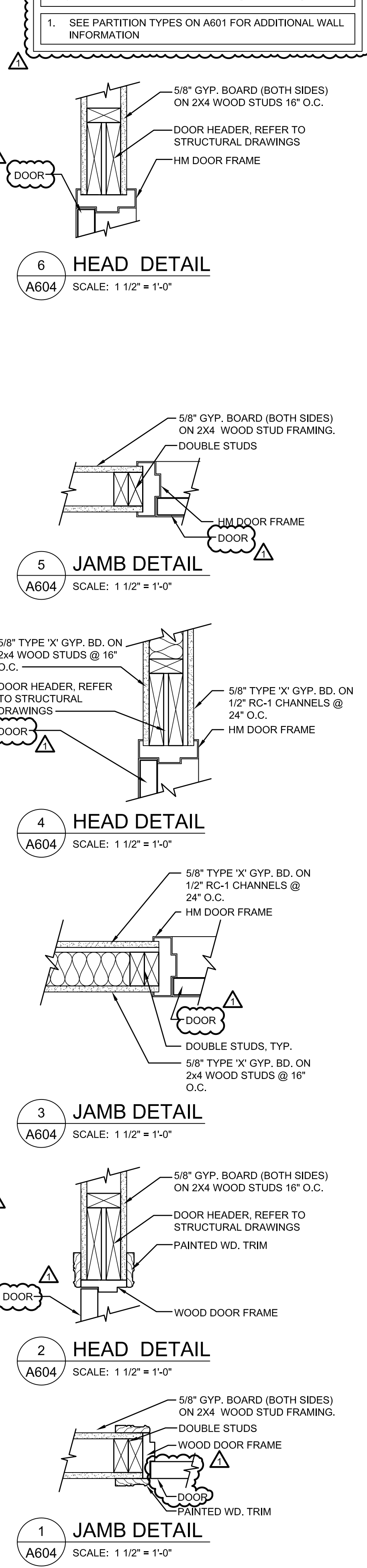
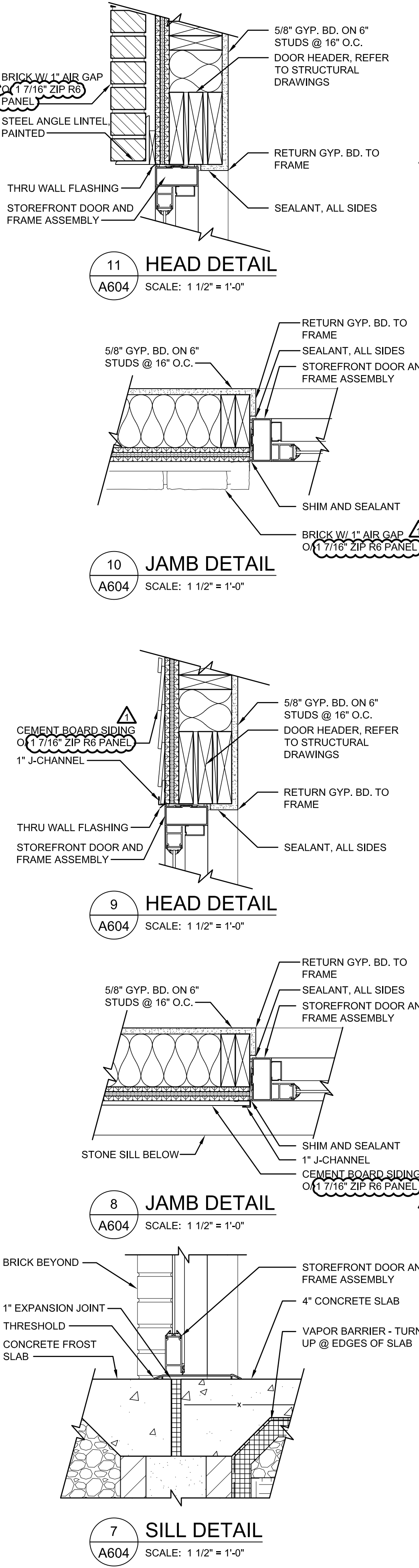
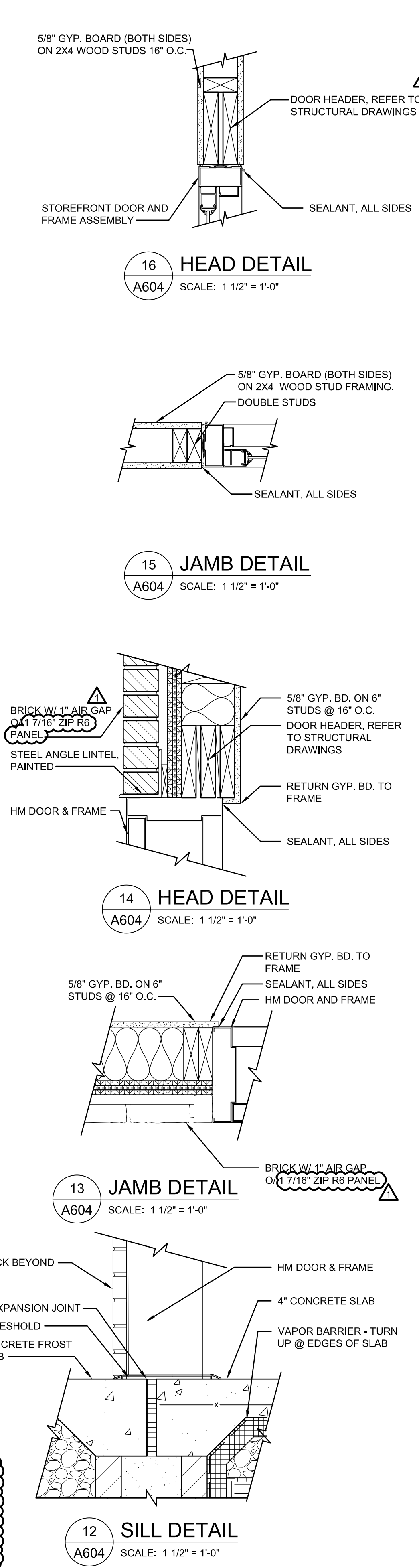
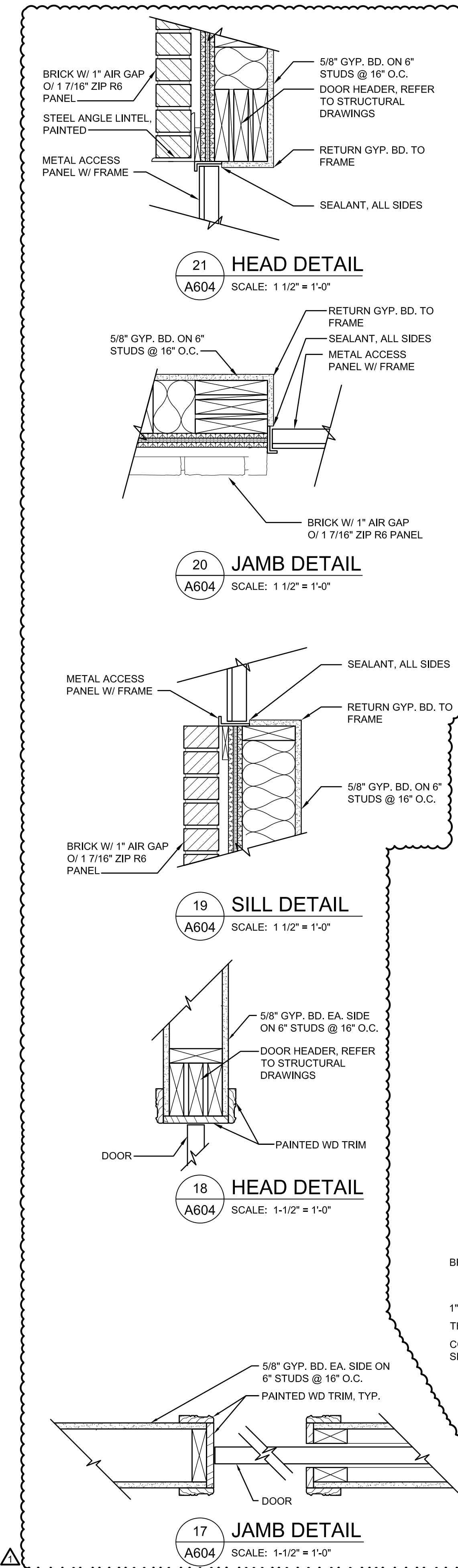
82A21

PROJECT NUMBER

A603

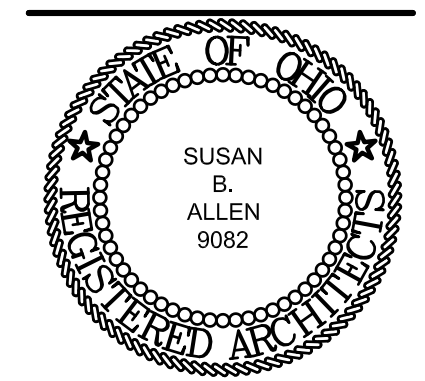
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GENERAL NOTES

1. SEE PARTITION TYPES ON A601 FOR ADDITIONAL WALL INFORMATION



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DOOR DETAILS
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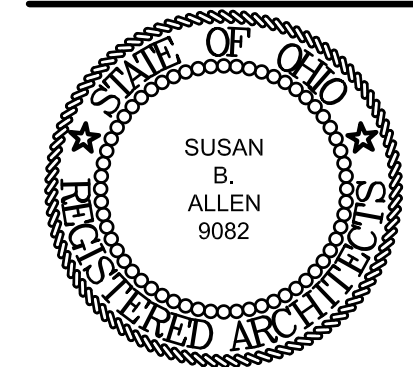


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A605

DRAWING NUMBER

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 PGI (finish rating 26 min)

PANEL REY S A — Type ARX, GREX, GRDX, PRX, PRC; 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)

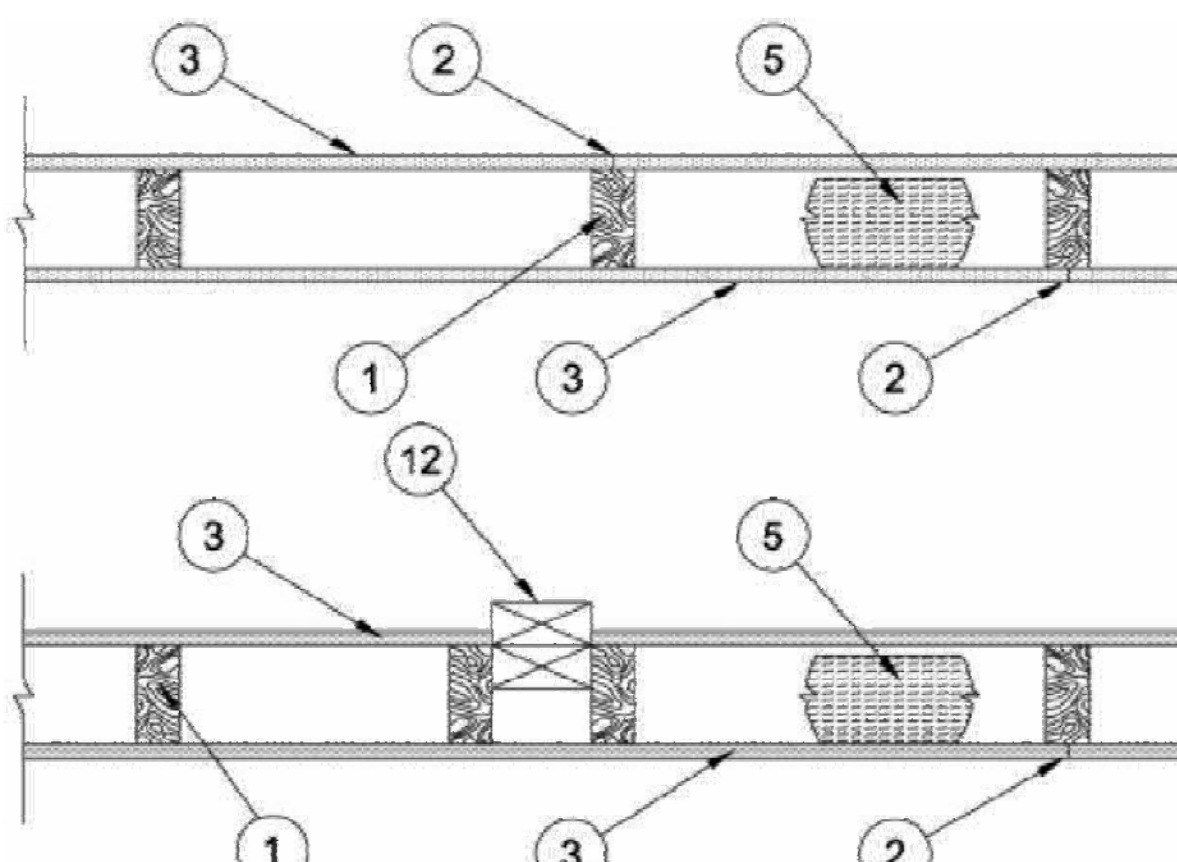
UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type 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)



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. 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.

3. 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.

When Item 6A, **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.

When Item 7, 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

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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.

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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

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)

3J. 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

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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

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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

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

Applegate Greenfiber Acquistion 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 Sucra seal 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 — Aplegate 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 OCK, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamsulate Closed Cell, Foamsulate OCK, 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

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 shank 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

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 — RESLIMOUNT 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

CGC INC — Types C, IP-X2, 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 PRX

THAI GYPSUM PRODUCTS PCL — Type C

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

USG BORAL DRYWALL SFZ LLC — Type C

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

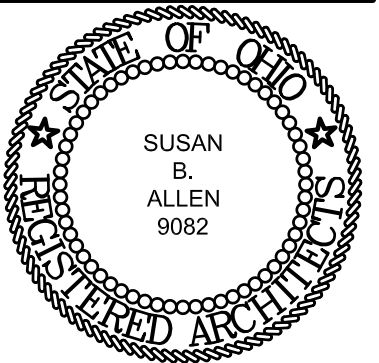
* Indicates such products shall bear the UL or cUL Certification Mark for Jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2023-02-03

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Feedback



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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

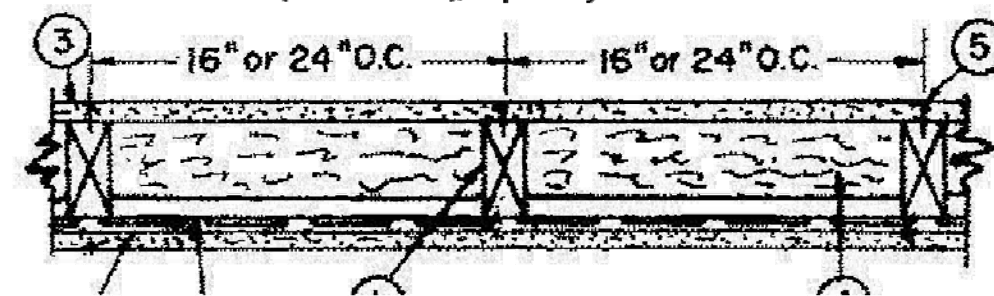
Design No. U311

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.



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 (Item 1). 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.

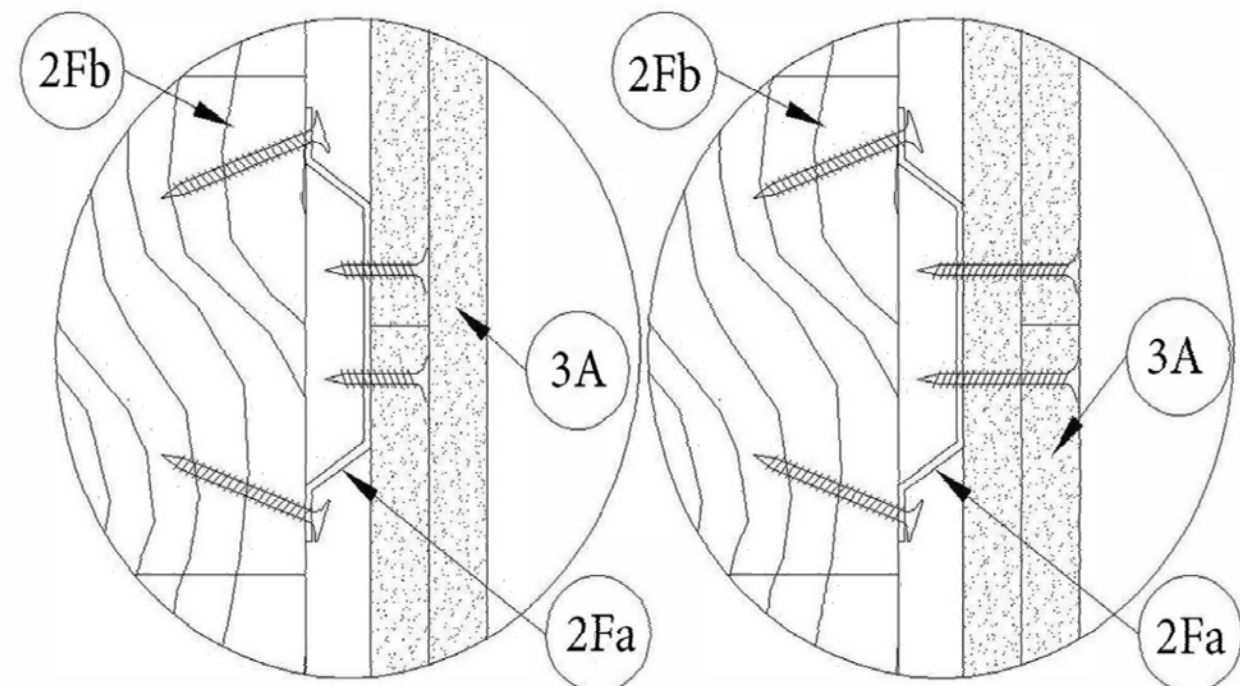
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

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.

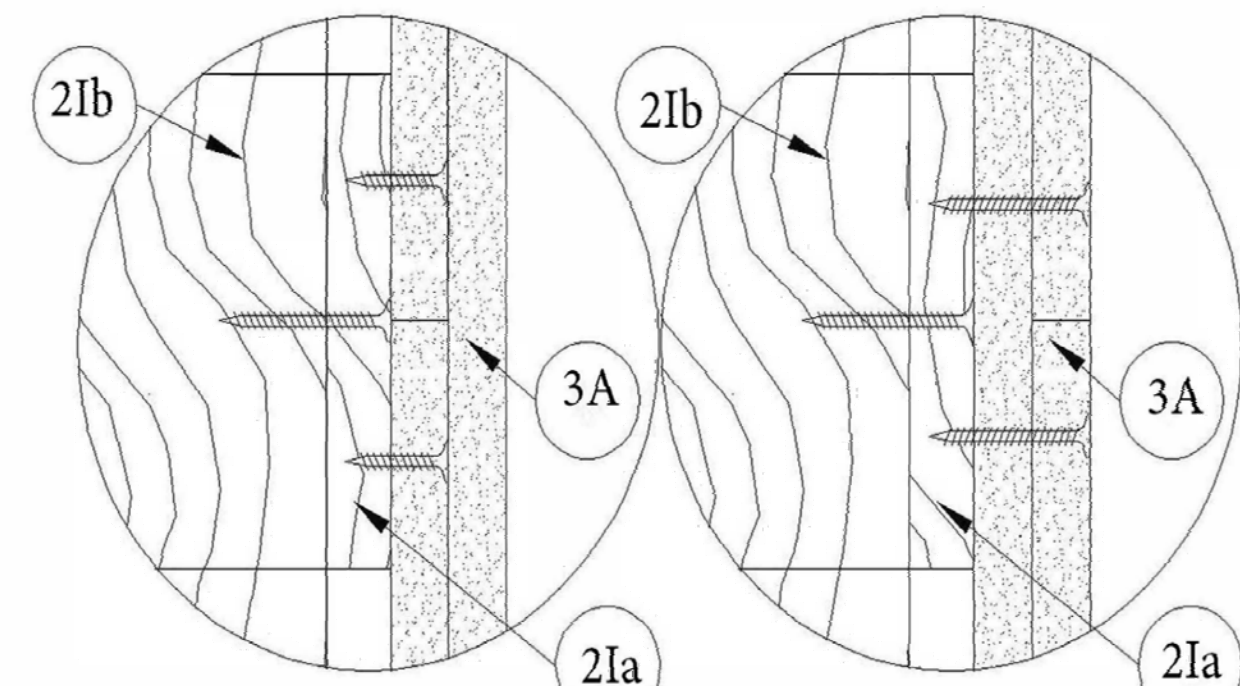
b. **Framing Members*** — Used to attach furring channels (Item 2Ia) to studs (Item 1). Rafts secured to each stud, spaced a maximum of 48 in. OC, vertically. Staggered 24 inch on center vertically on each adjacent stud. At the beginning or end of furring channel runs, additional rafts installed to support 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



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.

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 MZTECH, Gyproc FireStop ACTVAIR, Gyproc FireStop MR ACTVAIR, Gyproc FireStop MZTECH ACTVAIR, Gyproc DuraLine, Gyproc DuraLine MR, Gyproc DuraLine MR ACTVAIR, Gyproc DuraLine MZTECH ACTVAIR

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 3 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 in 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.

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. Furring channels are friction fitted into clips.
 REGUPOOL AMERICA — Type SonusClip

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

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 — 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

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

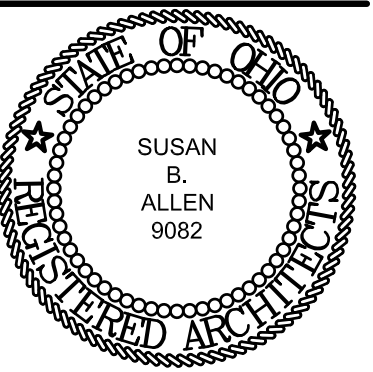
5. **Joints and Screw Heads** — Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound. As an alternate, non 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with joints reinforced with paper tape.

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



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

REVISIONS

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TURNING VISIONS
 INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

A607

DRAWING NUMBER

BXUV.U905 - 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.

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. U905

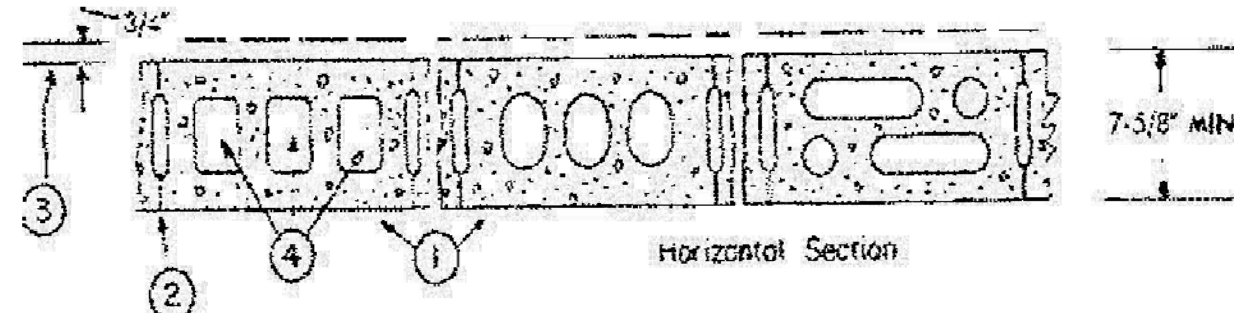
February 6, 2023

Bearing Wall Rating - 2 HR
Nonbearing Wall Rating - 2 HR

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



- 1. Concrete Blocks* - Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.
2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Stucco or Gypsum Plaster - Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

DUPONT DE NEMOURS, INC. - Types Thermo Sheathing, Thermo Light Duty Insulation, Thermo Heavy Duty Insulation, Thermo Metal Building Board, Thermo White Finish Insulation, Thermo c Exterior Insulation, Thermo XARMOR c Exterior Insulation, Thermo H Insulation, Thermo Plus Liner Panel, Thermo Heavy Duty Pks (HDP), TUFF-R™ c Insulation, Thermo Butler StyWell Insulation Board and Thermo Morton Heavy Duty Insulation Board

FIRESTONE BUILDING PRODUCTS CO L L C - "Enverge™" CI Foil Exterior Wall Insulation" and "Enverge™" CI Glass Exterior Wall Insulation"

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC - Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

IMAX, A BUSINESS UNIT OF SIKA CORPORATION - Types "TSX-8500", "ECOMAX GR", "TSX-8510", "ECOMAX cI FR White", "ECOMAX G", "ECOMAX cI FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE - Type "AP Foil-Faced Foam Sheathing"

5A. Building Units* - As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC - "Xci NB", "Xci Ply"

IMAX, A BUSINESS UNIT OF SIKA CORPORATION - "Thermasheath-SI", "ECOBASE cI", "Thermabase-CI", "ECOMAX G FR Ply", "ECOMAX G Ply"

* 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 2023-02-06

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.

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

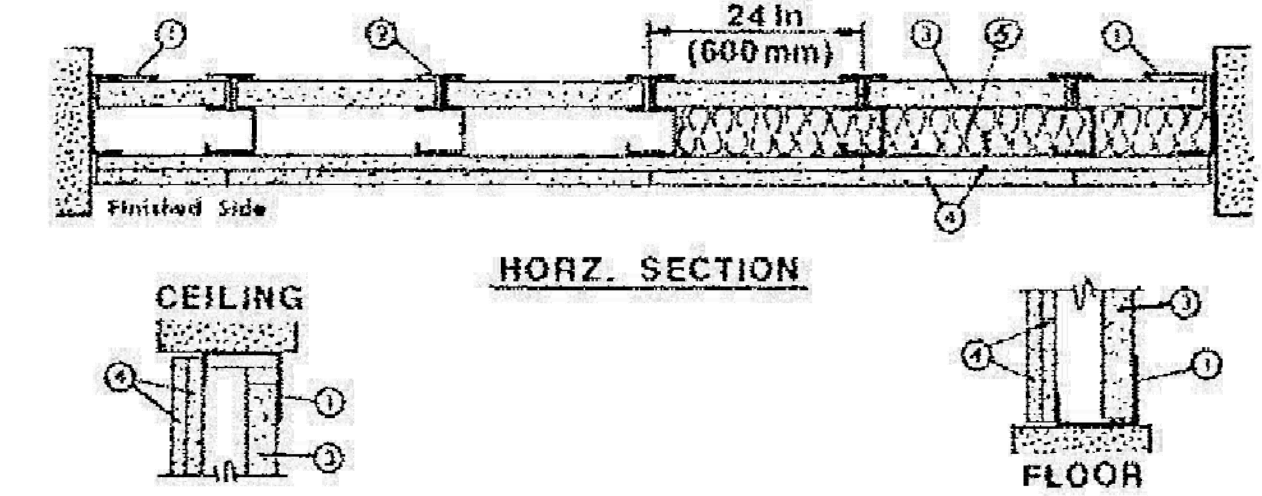
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U408

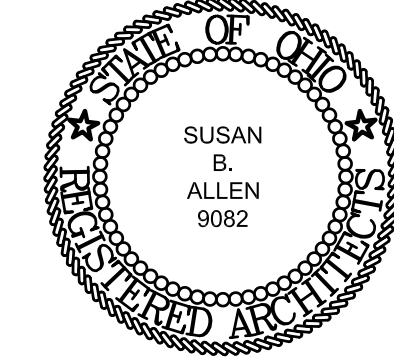
December 01, 2022

Nonbearing Wall Rating - 2 Hr

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



Feedback



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

REVISIONS
BULLETIN 01 07/17/2023

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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

A608

DRAWING NUMBER

- 1. Floor and Ceiling Runners - "J"-shaped runners, min. 2-1/2 in. wide with unequal legs of 1 in. and 2-1/4 in., fabricated from min. 25 MSG galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.

1A. Framing Members* - Floor and Ceiling - Not shown - As an alternate to Item 1 - For use with Item 2A, proprietary "J"-shaped runners, galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not more than 2 in. from ends and not more than 24 in. OC.
RONDO BUILDING SERVICES PTY LTD - Type J Runner Track

1B. Steel Framing Members (Floor, Side and Ceiling Runners)* - As an alternate to Item 1, "J"-shaped runner, min 2-1/2 in. deep with unequal legs of 1 in. and min 2-1/4 in. fabricated from min 25 MSG galv steel (0.0179 in. bare steel thickness). Runners position with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in from ends and not greater than 24 in. OC. Runners may be supplied with securement tabs for gypsum liner panels (refer to item 3).
SCAFCO STEEL STUD MANUFACTURING CO - I-Stud Shaftwall Steel Framing System

2. Steel Studs - "C-T" or "C-H" shaped studs 1-5/8 in. wide by min. 2-1/2 in. deep, fabricated from min. 25 MSG galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.

2A. Framing Members* - Steel Studs - As an alternate to Item 2 - Proprietary "C-H" shaped studs, galv steel. Cut to lengths 3/4 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC.
RONDO BUILDING SERVICES PTY LTD - Type CH Stud

2B. Steel Framing Members (Steel Studs)* - As an alternate to Item 2. For use with Item 1B - "T"-shaped studs fabricated from min 25 MSG galv steel, min 2-1/2 in. deep, 1-1/2 in. wide. Studs contain 3/4 in. wide by 2-1/4 in. high holding tabs spaced 2-3/4 in. OC. Cut to lengths 5/8 in. less than floor-to-ceiling height and spaced 24 in.
SCAFCO STEEL STUD MANUFACTURING CO - I-Stud Shaftwall Steel Framing System

3. Gypsum Board* - 1 in. thick gypsum wallboard liner panels, supplied in nom. 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than the floor to ceiling height. Vertical edges of the panels inserted into "T" shaped section of C-T studs or "H" section of the C-H studs. Free edge of end panels secured to long leg of J runner with tabs in runner or 1-5/8 in. long Type 5 self-tapping bugle head steel screws spaced not more than 12 in. OC. When J-shaped runners (Item 1B) are supplied with securement tabs, free edge of end panels may be secured by bending the securement tabs, max 12 in. OC, to a 90 degree angle to securely friction-fit panels into J-shaped runners.
AMERICAN GYPSUM CO - Types AG-S, M-Glass

CERTAINTED GYPSUM INC - Types Shaftliner, EGRC Shaftliner, GlasRoc Shaftliner.

CERTAINTED GYPSUM INC - Type LGFCSL

GEORGIA-PACIFIC GYPSUM L L C - Types TP-6, DGJSL, and TRSL

NATIONAL GYPSUM CO - Types FSW, FSW-B, FSW-7, FSW-9

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Types PG-10 and PG-10G

THAI GYPSUM PRODUCTS PCL - Type Shaftliner

4. Gypsum Board* - 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type 5 self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 2 in. OC along the vertical edges and in the field of the boards.

Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type 5 self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

Feedback

AMERICAN GYPSUM CO - Types AG-C

CABOT MANUFACTURING ULC - Type C

CERTAINTED GYPSUM INC - Type C

CERTAINTED GYPSUM INC - Types LGFC-C/A, LGFC6A

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

NATIONAL GYPSUM CO - Types eXP-C, FSK, FSL, FSMR-C, FSW-3, FSW-8, FSW-C, FSW-G

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM - Types PG-C, 5/8 in. Type C

THAI GYPSUM PRODUCTS PCL - Type C

4A. Gypsum Board* - (As an alternate to Item 4) - Installed vertically only as described in Item 4. 5/8 in. thick, 4 ft. wide, paper surfaced.
NATIONAL GYPSUM CO - Type SBWB

5. Batts and Blankets* - (optional) - Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

5A. Fiber, Sprayed* - As an alternate to Batts and Blankets (Item 5) - (100% Borate Formulation) - 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 adhes at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.
Applegate Greenfiber Acquisition LLC - INS735, INS745, INS750D, and Insulmax for use with wet or dry application. INS765LD and INS773L are to be used for dry application only.

5B. Fiber, Sprayed* - As an alternate to Batts and Blankets (Item 5) and Item 5A - 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. Fiber, Sprayed* - As an alternate to Batts and Blankets (Item 5) - 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 dens shall be 4.30 lbs/ft³.
INTERNATIONAL CELLULOSE CORP - Celbar-RI

* 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

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Feedback

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.

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. U301

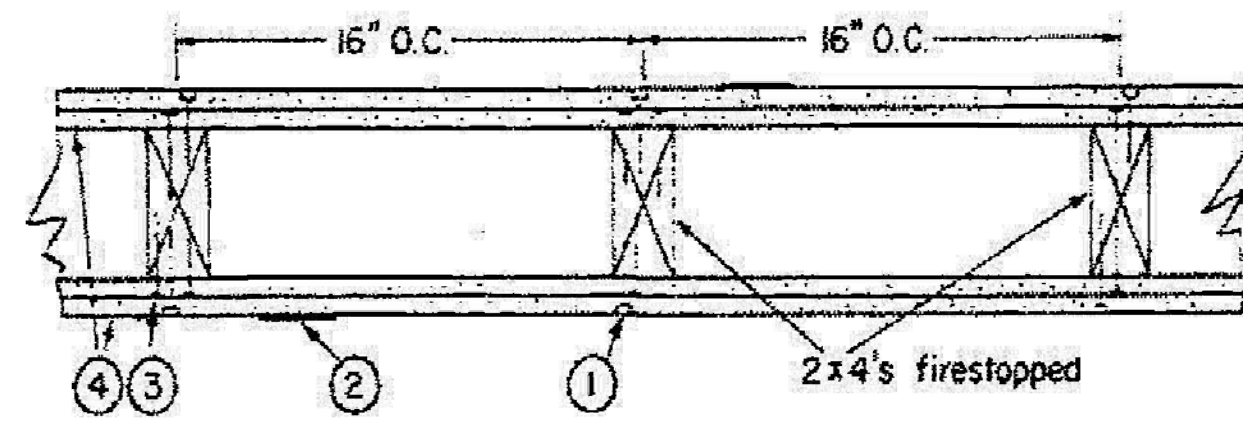
February 3, 2023

Bearing Wall Rating - 2 Hr
Finish Rating - 66 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



- 1. **Nailheads** — Exposed or covered with joint compound.
 - 2. **Joints** — Exposed 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.
 - 3. **Nails** — 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam, 1/4 in. diam heads, and 6d cement coated nails 2-3/8 in. long, 0.113 in. shank diam, 9/32 in. diam heads.
 - 4. **Gypsum Board*** — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
When used in widths other than 48 in., gypsum board to be installed horizontally.
- When Steel Framing Members*** (Item 6 or any alternate clips) are used, base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced max 24 in. OC, face layer attached with 1-5/8 in. long Type S bugle-head steel screws spaced max 12 in. OC.
- AMERICAN GYPSUM CO** — Types AGX-1, M-Glass, AG-C, AGX-11, LightRoc
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1
- CABOT MANUFACTURING ULC** — Type X, 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** — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Type LWDX
- CGC INC** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, ULX, USGX, WRC, WRC
- CERTAINTED GYPSUM INC** — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLX
- GEORGIA-PACIFIC GYPSUM L L C** — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPF56, LS, TG-C, Type X, Veneer Plaster Base-Type X, Water Rated-Type X, Sheathing-Type X, Soffit-Type X, GreenGlass-Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing-Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing-Type DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base-Type LW2X, Water Rated-Type LW2X, Sheathing-Type LW2X, Soffit-Type LW2X, Type DGL2W, Water Rated-Type DGL2W, Sheathing-Type DGL2W
- NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSWR-C, FSL, RSK
- NATIONAL GYPSUM CO** — Riyadh, Saudi Arabia — Type FR, or WR

Feedback

2

- PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM** — Types C, PG-2, PG-3, PG-3W, PG-4, PG-5, PG-5W, PG-SWS, PG-9, PG-11, PG-C, PCS-WRS, PGI
- PANEL KEY S A** — Types PRC, PRC2, PRX, RHX, MDX, ETX, GREX, GRX
- SIAM GYPSUM INDUSTRY (SARABURI) CO LTD** — Type EX-1
- THAI GYPSUM PRODUCTS PCL** — Type C or Type X
- UNITED STATES GYPSUM CO** — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, ULX, USGX, WRC, WRC
- USG BORAL DRYWALL SFZ LLC** — Types C, SCX, USGX
- USG MEXICO S A DE C V** — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRC
- 4A. Gypsum Board*** — (As an alternate to Item 4) — Nom 3/4 in. thick, installed as described in Item 4.
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
- 4B. Gypsum Board*** — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 4. 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
- 4C. Gypsum Board*** — (As an alternate to Items 4, 4A or 4B — Not Shown) — For Direct Application to Studs Only- For use on one or both sides of the wall as the base layer or one or both sides of the wall 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 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, F4j 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-2011, 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.
RAY-BAR ENGINEERING CORP — Type RB-LBG
- 4D. Gypsum Board*** — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers 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. Outer layers fastened to framing with 1-7/8 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 other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, LightRoc

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- RADIATION PROTECTION PRODUCTS INC** — Type RPP — Lead Lined Drywall
- 4M. Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, 4 ft. wide, two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 4.
CERTAINTED GYPSUM INC — 5/8" Fast-Lite Type X
- 4N. Gypsum Board*** — (As an alternate to 5/8 in. Type FSW in Items 4 or 4I) — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4 or 4I. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in Item 4 or 4I, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4 or 4I.
NATIONAL GYPSUM CO — Type FSW
- 4O. Wall and Partition Fcnchs and Accessories*** — (As an alternate to Items 4 through 4N) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock S27
- 4P. Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
CERTAINTED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX
- 4Q. Gypsum Board*** — (As an alternate to Item 4. For use with Item 13) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKND) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied either horizontally or vertically, and screwed to studs 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. For the face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. When used in widths other than 48 in., gypsum panels are to be installed horizontally.
- 4R. Gypsum Board*** — As an Alternate to Item 4 — 5/8 in. thick applied either horizontally or vertically. Inner layers 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. Outer layers fastened to framing with 1-7/8 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 other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
CERTAINTED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X-1, Fast-Lite Type X, SilentFX
- 4S. Gypsum Board*** — (As an alternate to Item 4. For use with Item 13A) — 5/8 in. thick, two layers applied vertically. Inner layer attached to studs with the 1-7/8 in. nails spaced 6 in. OC. Outer layer attached to studs over inner layer with the 2-3/8 in. long nails spaced 8 in. OC. Vertical joints located over studs. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side.
AMERICAN GYPSUM CO — Types AGX-1
- BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO** — Type DBX-1
- CABOT MANUFACTURING ULC** — "5/8 Type X"
- CGC INC** — Type SCX
- PANEL KEY S A** — Type PRX
- SIAM GYPSUM INDUSTRY (SARABURI) CO LTD** — Type EX-1

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- THAI GYPSUM PRODUCTS PCL** — Type X
- UNITED STATES GYPSUM CO** — Type SCX
- USG BORAL DRYWALL SFZ LLC** — Types SCX
- USG MEXICO S A DE C V** — Type SCX
- 4T. Gypsum Board*** — (As an alternate to Item 4. For use with Item 13B) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached 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. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W coarse thread gypsum panel steel screws spaced 8 in. OC.
- 4U. Gypsum Board*** — (As an alternate to Item 4. For use with Item 13C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 4 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-1/4 in. long Type W screws spaced 8 in. OC at perimeter and in the field. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W screws spaced 8 in. OC.
- 5. Molded Plastic*** — Not Shown, Optional — Solid vinyl siding mechanically secured over the outer layer to framing members in accordance with manufacturer's recommended installation details.
ALSIDE, DIV OF ASSOCIATED MATERIALS INC
GENTEK BUILDING PRODUCTS LTD
VYTEC CORP
- 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. Wallboard attached to furring channels as described in Item 4.
- B. Steel Framing Members*** — Used to attach furring channels (Item 6A) 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. **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)
- 6A. Steel Framing Members*** — (Optional, 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. 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 4.
- B. Steel Framing Members*** — Used to attach furring channels (Item 6Aa) 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.
STUCCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237R
- 6B. Steel Framing Members*** — (Optional, 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. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6Bb. 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 4.

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- 4E. Gypsum Board*** — (As an alternate to Items 4 through 4D) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically and secured as described in Item 4.
GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board
- 4F. Gypsum Board*** — (As an alternate to Item 4) — Not to be used with Item 6, 6A, 6B or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically and secured as described in Item 4.
NATIONAL GYPSUM CO — Type SBWB
- 4G. Gypsum Board*** — (As an alternate to Items 4 through 4F) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types QuietRock ES
- 4H. Gypsum Board*** — (As an alternate to Item 4) — Not to be used with Item 6, 6A, 6B, or 6C. 5/8 in. thick, 4 ft. wide, paper surfaced, applied vertically or horizontally and secured as described in Item 4.
CERTAINTED GYPSUM INC — Type SilentFX
- 4I. Gypsum Board*** — (As an alternate to item 4) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 8 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type W steel screws spaced 8 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. As an alternate to the joint compound nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally. The SoundBreak XP Type X Gypsum Board is not to be used with Item 6, 6A, 6B, or 6C.
NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSWR-C, SBWB
- 4J. Gypsum Board*** — (As an alternate to Items 4) — 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 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 and discs to have a purity of 99.5% meeting the Federal specification QQ-L-2011, Grades "B, C, or D". 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.
MATCO INDUSTRIES INC — "K-Ray Shielded Gypsum"
- 4K. Gypsum Board*** — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11
- NATIONAL GYPSUM CO** — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSWR-C, SBWB.
- 4L. Gypsum Board*** — (As an alternate to Items 4) — 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-2011, 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.

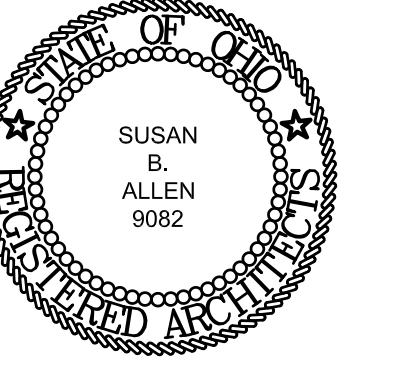
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- B. Steel Framing Members*** — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC, and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOI AMERICA — Type SonusClip
- 6C. Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — 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. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.
- b. Steel Framing Members*** — Used to attach resilient channels (Item 6Ca) 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
- 6D. Steel Framing Members*** — (Optional, Not Shown, As an alternate to Item 6) — 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 24 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
- 6E. Steel Framing Members*** — (Optional, 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 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 4.
- b. Steel Framing Members*** — Used to attach furring channels (Item 6Ea) 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
- 7. Furring Channel** — Optional — Not Shown — For use on one side of the wall with Item 4K — 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, Item 8 or 9 is required.
- 8. Batts and Blankets*** — Required for use with resilient channels, Item 7, min. 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the nom 4 in. face of the studs with staples placed 24 in. OC.
ROCKWOOL — type SAFESOUND, min. 1.8 pf.
- THERMAFIBER INC** — Type SAFB, SAFB FF
- 9. Batts and Blankets*** — (As an alternate to Item 8) — Min. 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the stud cavities. See Batts and Blankets (BKNV or B2J2) Categories for names of Classified companies.
- 9A. Fiber, Sprayed*** — (Optional) — As an alternate to Batts and Blankets (Item 8), Required for use with resilient channels, Item 7, Not for use with Item 6, 6A, 6B, or 6C. — Spray applied mineral wool insulation. 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

Feedback

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Expiration Date 12/31/2023

REVISIONS
BULLETIN 01 07/17/2023

4K. Gypsum Board* — For use with Item 7 — 5/8 in. thick, two layers applied vertically. Inner layer attached to resilient channels with 1 in. long steel screws spaced 8 in. OC. Outer layer attached to resilient channels over inner layer with 1-5/8 in. long steel screws spaced 8 in. OC. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Insulation, Items 8 or 9 is required.
AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C, AGX-11

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-5, FSW-6, FSW-C, FSW-G, FSWR-C, SBWB.

4L. Gypsum Board* — (As an alternate to Items 4) — 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-2011, 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.

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B. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC, and secured to studs with 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOI AMERICA — Type SonusClip

6C. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — 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. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. Steel Framing Members* — Used to attach resilient channels (Item 6Ca) 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



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TURNING VISIONS INTO REALITY

03/31/2023
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PROJECT NUMBER

A609
DRAWING NUMBER

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 or QR-510

11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 2 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 horizontally or vertically with vertical joints centered over studs. Face layer fastened over gypsum board 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.
NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus

12. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — When the Wall Assembly is used as an External Wall, on the External side of the wall one of the following Wall and Partition and Facing Accessories may be used, refer to items (A) to (C) below.

A. Non Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4 and install Acry Metal Channels vertically at a horizontal spacing not greater than 24 inches OC, over the moisture barrier. Acry Metal Channels attached through the moisture barrier and the Gypsum Board to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Install Acrytec Panels on Acry Metal Channels using 1-1/4" long corrosion coated stainless steel screws spaced at a max spacing of 24 inches OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels shall be Tremco Ilimod 600 pre compressed polyurethane foam sealant.

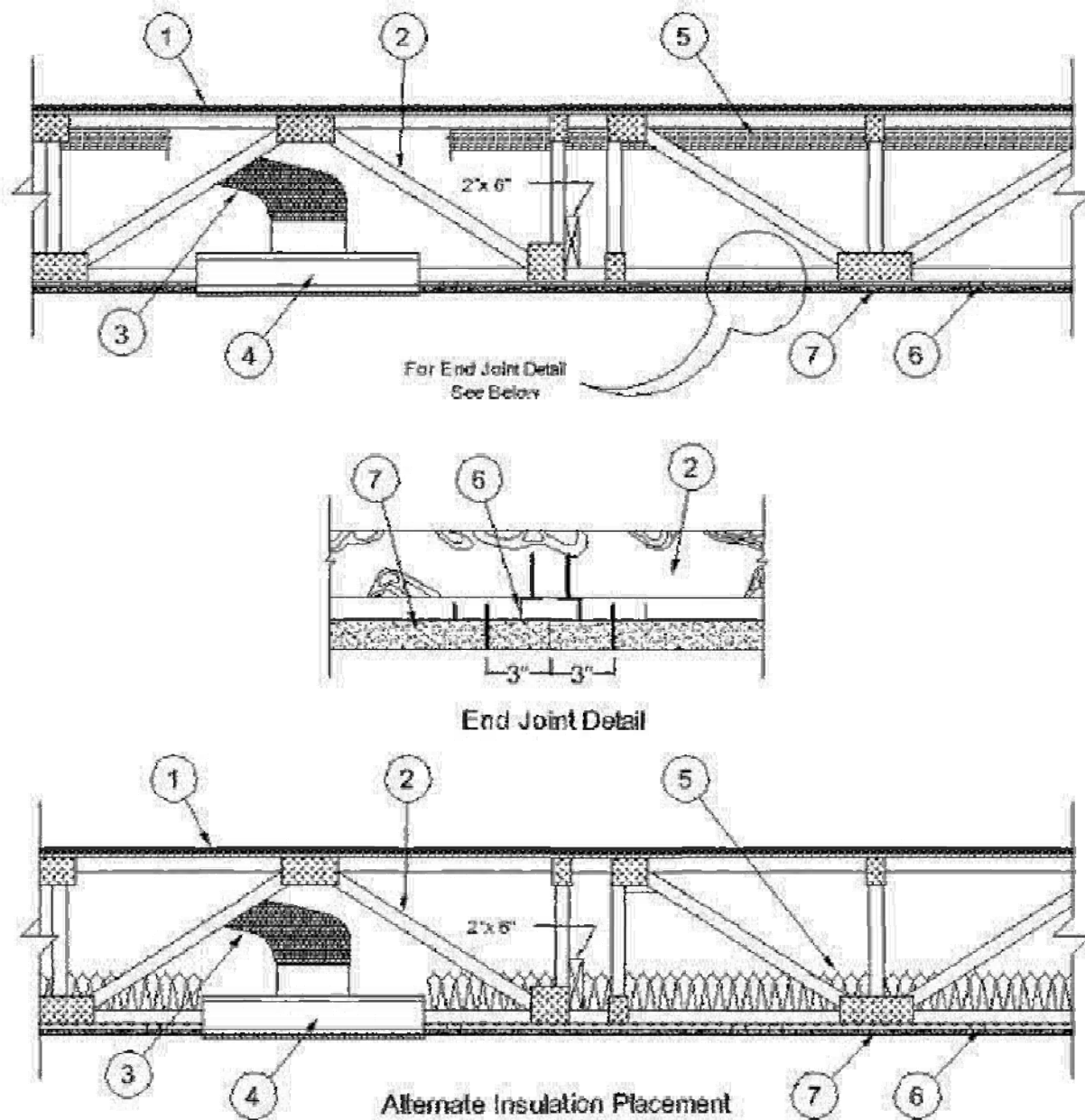
B. Insulated system with metal channels — Install moisture barrier over the Gypsum Board Item 4. Install galvanized Z girt channels specified by the manufacturer over the moisture barrier and the Gypsum Board Item 4. Z girt channels to be installed horizontally at a max. spacing of 24" OC. Z girt channels attached through the Gypsum Board and the moisture barrier to the wood studs with screws provided by the manufacturer at a max spacing of 24 inches OC. Install mineral wool insulation between the Z girts. Maximum thickness of mineral wool insulation not to exceed 6 in. As per manufacturer's instructions install Acry Metal Channels vertically over the Z girts at a max horizontal spacing of 24 in. OC. Acrytec Panels installed on Acry channel with 1-1/4" long corrosion coated stainless steel screws at a max spacing of 24 in. OC, along with manufacturer's approved adhesive (3M 540 or Tremco Vulcum 116). Adhesive to be applied in a zigzag pattern along every channel. Joint treatment in between panels to be Tremco Ilimod 600 pre compressed polyurethane foam sealant.

C. Non Insulated wood strapping system — Install moisture barrier over the Gypsum Board Item 4 and install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC, over the moisture barrier. 1" x 3" wood strapping attached through the moisture barrier and the Gypsum Board to the Wood studs using fasteners specified by the manufacturer and fasteners spaced max., 24 in. OC. Acrytec Panels to be installed on the 1" x 3" wood strapping using manufacturer's approved stainless steel fasteners spaced at maximum 24 inches OC along with Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco Ilimod 600 pre compressed polyurethane foam sealant.

D. Insulated Wood Strapping System — Install moisture barrier over the Gypsum Board Item 4. Install Extruded Polystyrene Insulation over moisture barrier and the Gypsum Board Item 4, max thickness of insulation not to exceed 4 inches. Install 1" x 3" wood strapping vertically at a horizontal spacing not greater than 24 inches OC. Wood strapping attached through the Insulation, the Gypsum Board and moisture barrier to the Wood Studs using fasteners specified by the manufacturer and fasteners spaced max. 24 in. OC. Acrytec Panels to be installed over the wood strapping using manufacturer's approved stainless steel fasteners at a max spacing of 24 in. OC and Tremco Vulcum 116 adhesive applied in a zigzag pattern along every wood strap. Joint treatment in between panels to be Tremco Ilimod 600 pre compressed polyurethane foam sealant.

ACRYTEC PANEL INDUSTRIES — Nominal 5/8 inch thick Acrytec Panel.

13. Foamed Plastic* — (Optional, Not Shown - For use with Item 4C) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
SES FOAM INC — Nessel™ 2.0 or Nessel™ 2.0 LF Spray Foam and SucraSeal Spray Foam. For use in Bearing and Non-Load Bearing Walls.



1. Flooring System — The flooring system shall consist of one of the following:

System No. 1
Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ring 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.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring — Min 1 by 4 in. T & G lumber fastened diagonally to trusses, or min 15/32 in. plywood, min grade "Underlayment" or "Sturd-I-Floor" with T & G edges and conforming to PS1-83 specifications, or nonverner APA rated Sturd-I-Floor, T & G panels per APA specifications PRP-108. Face grain of plywood to be perpendicular to trusses with joints staggered.

System No. 2
Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or panels secured to trusses with construction adhesive and No. 6d ring 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.
Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial asphalt saturated felt.
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.

13A. Foamed Plastic* — (Optional, Not Shown - For use with Item 4S) — 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.

13B. Foamed Plastic* — (Optional, Not Shown - For use with Item 4T) — 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 Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

13C. Foamed Plastic* — (Optional, Not Shown - For use with Item 4U) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.
BAF CORP — Types Enerite® NIM, Enerite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite® HP+, Spraytite® Comfort XL, and Walltite® XL

14. Foamed Plastic* — (Optional, Not Shown - For use over Gypsum Board, Item 4) — Polysocyanurate foamed plastic boards, any thickness applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Kci Class A", "Kci 286", "Kci Foil (Class A)", "Kci CG", "Kci Foil", "Kci CG NH", "Kci Foil NH"

15. Building Units* — (Optional, Not Shown - For use over Gypsum Board, Item 4) Polysocyanurate composite foamed plastic boards, any thickness, applied vertically with vertical joints located over studs. May be used with Molded Plastic, Item 5 or any exterior facing, as authorized by the Authority Having Jurisdiction and installed in accordance with the manufacturer's installation instructions.
HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Kci NB", "Kci Py"

16. Building Units — (Optional Item Not Shown — For use over Gypsum Board, Item 4) 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 PBC1

* 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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UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE 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.
GRASSWORK L L C — SC Types

System No. 3
Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Type STRUCTO-CRETE or USGSP

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 DE 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

System No. 4
Structural Cement-Fiber Units* — Nom 3/4 in. thick, with long edges tongue and grooved. Long dimension of panels to be perpendicular to wood trusses with end joints staggered a min of 2 ft and centered over the trusses. Panels secured to wood trusses with 1-5/8 in. long, No. 8, self-countersinking wood screw spaced a max of 12 in. OC in the field with a screw located 1 in. and 2 in. from each edge, and 8 in. OC on the perimeter with a screw located 2 in. from each edge, located 1/2 in. from the end edges of the panel.
UNITED STATES GYPSUM CO — Types STRUCTO-CRETE or USGSP

System No. 5
Subflooring — Min 23/32 in. thick plywood with T & G edges along the 8 ft sides and exterior glue or nonverner APA Sturd-I-Floor T & G panels per APA specifications PRP 108. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered 4 ft. Plywood or panels secured to trusses with construction adhesive and No. 6d ring 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.
Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1 in. of floor-topping mixture.
HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.
HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

UL Product IQ*

BXUV.L550 - 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, systems, 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 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. L550
 March 3, 2023

Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 23 Min (See Items 5 or 5A and 7), 20 Min. (See Items 6E and 7A)
 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.

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25 mm).
HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Quil 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Quil 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).
HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Quil 65/075

Metal Lath — (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring* — Floor Topping Mixture — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

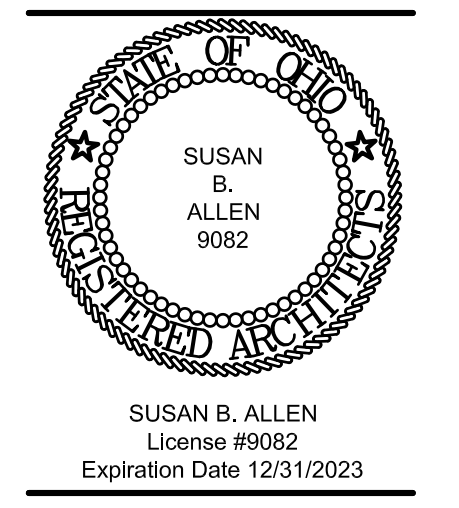
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System No. 6

System No. 7
Subflooring — Min 23/32 in. thick plywood with T & G edges along the 8 ft sides and exterior glue or nonverner APA Sturd-I-Floor T & G panels per APA specifications PRP 108. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered 4 ft. Plywood or panels secured to trusses with construction adhesive and No. 6d ring 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.
Finish Flooring* — Mineral and Fiber Board — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.
HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8
Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonverner APA rated panels secured to trusses with construction adhesive and No. 6d ring 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.
Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.
Finish Flooring* — Floor Topping Mixture — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.
ELASTIZELL CORP OF AMERICA — Type FF

System No. 9
Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonverner APA rated panels secured to trusses with construction adhesive and No. 6d ring 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.



REVISIONS

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TURNING VISIONS INTO REALITY

03/31/2023
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82A21
 PROJECT NUMBER

A610
 DRAWING NUMBER



Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring* — Floor Topping Mixture — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.2 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5.5 gal of water.

AERIX INDUSTRIES — Floor-Topping Mixture

System No. 10

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring 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.

Finish Flooring* — Floor Topping Mixture — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Mixture shall consist of 5 to 8 gal of water to 80 lbs of floor topping mixture to 2.1 cu ft of sand.

ULTRA QUIET FLOORS — Types UQF-A, UQF-Super Blend, UQF-Plus 200

System No. 11

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or 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.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

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 NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and S20

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 3/4 in.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 12

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or 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.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

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.

DEPENDABLE LLC — GSL M3.4, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Material* — (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 Curl 55/025 and Quiet Curl 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 Curl 60/040 and Quiet Curl 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 Curl 65/075, Quiet Curl 65/075 N

at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6A. Steel Framing Members* — (Not Shown) — As an alternate to Item 6. a. Main Runners — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC perpendicular to trusses. Main runners hang a min of 2 in. from bottom chord of trusses with 12 SWG galv steel wire. Wires spaced max 48 in. OC.

b. Cross Tees or Channels — Cross tees, nom 4 ft long, 15/16 in. or 1-1/2 in. wide face, or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted panel end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall Angles or Channels — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or channel with a 1 by 1 1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in. OC. Used to support steel framing member ends and for screw-attachment of the gypsum panels. CGC INC — Type DGL, RX

USG INTERIORS LLC — Type DGL, RX

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A.

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 12 in. OC perpendicular to wood structural members. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galv steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, RSIC-1 and RSIC-1 (2.75) clips secured to bottom of trusses with No. 8 by 2-1/2 in. coarse drywall screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to consecutive trusses with No. 8 by 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. 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 RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)

6C. Steel Framing Members* — (Not Shown) — As an alternate to Items 6, 6A and 6B.

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 12 in. OC perpendicular to trusses. When insulation (Item 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item 6Cb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to trusses (Item 2). Clips spaced 48 in. OC and secured to the bottom of the trusses with one No. 8 by 2-1/2 in. long coarse drywall screw through center grommet. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item 6Ca. 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. Not evaluated for use with Item 5A or when insulation is draped over Furring Channels. PLITEC INC — Type Genie Clip

6D. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6, 6A, 6B and 6C, 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 16 in. OC, perpendicular to trusses. When insulation (Item 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

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 Curl 52/013 and Quiet Curl 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 Curl 55/025 MT and Quiet Curl 55/025 N MT

System No. 13

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or 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.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

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. FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SiteMix

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 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 14

Subflooring — Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered. Plywood or 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.

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 (CCOX) 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.

2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0. 0356 in. thick galvanized steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

3. Air Duct* — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses 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. STUDDO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

6E. Resilient Channels - (Not Shown) — For Use With Item 7A - Formed from min 25 MSG galv steel installed perpendicular to trusses and spaced 16 in. OC. Channels secured to each truss with 1-5/8 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint. Additional channels shall extend min 6 in. beyond each side edge of panel. Insulation, Item 5B is applied over the resilient channel/gypsum panel (Item 7A) ceiling membrane.

6F. Alternate Steel Framing Members* — (Not Shown) — As an alternate to items 6, 6A, 6B, 6C, 6D and 6E 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 16 in OC, perpendicular to trusses. When insulation (Item 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b.

b. Steel Framing Members* — Used to attach furring channels (Item a) to the trusses (Item 2). Clips spaced at 48" OC and secured to the bottom of the trusses 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. REGUPO AMERICA — Type SonusClip

6G. 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 as indicated in Item 6, perpendicular to the trusses. 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 used at end joints of gypsum board (Item 7), 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 trusses, friction-fitted into the channel caddy on the Steel Framing Members (Item 6Gd) 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. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Gc) location with 16d nails or minimum 2-1/2 in. screws.

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

6H. Steel Framing Members* — (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 as indicated in Item 6, perpendicular to trusses and friction fit into Steel Framing Members (Item 6Hc). 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 used at end joints of gypsum board (Item 7). 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 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.

4. Damper* — For use with min 18 in. deep trusses. Max nom 20 in. long by 18 in. wide by 2-1/8 in. high, fabricated from galvanized steel. Plenum box max size nom 21 in. long by 18 in. wide by 16 in. high fabricated from either galvanized steel or Classified Air Duct Materials bearing the UL Classification Marking for Class 0 or Class 1 rigid air duct material. Installed in accordance with the instructions provided by the manufacturer. Max damper openings not to exceed 180 sq in. per 100 sq ft of ceiling area. NAIIOR INDUSTRIES INC — Types 0755, 0755A, 0756, 0756D, 0757, 0757D, 0757FP, 0757DFP, 0758, 0759, 0760, 0761, 0762, 0763, CRDS, CRDS5, CRD6, CRD6D, CRD6FP, CRD6DFP

SAFE AIR DOWCO — Types 0455, 0455A, 0456, 0456D, 0457, 0457D, 0457-DB, 0457-CB, 0457-FB, 0457-EB, 0463-GB, 0463

5. Batts and Blankets* — (Optional) — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When no insulation is installed in the concealed space the resilient channels are spaced 24 in. OC. When the resilient channels (Item 6) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane. The finished rating has only been determined when the insulation is secured to the subflooring.

5A. Loose Fill Material* — (Optional) — As an alternate to Item 5, when the resilient channels (Item 6) are spaced a maximum of 12 in. OC, or when the Steel Framing Members (Item 6A) are used - Any loose fill material bearing the UL Classification Marking for Surface Burning Characteristics. There is no limit in the overall thickness of insulation. The finished rating when loose fill material is used has not been determined.

5B. Cavity Insulation - Batts and Blankets* or Loose Fill Material* - (Not Shown) — (As described above in Items 5 and 5A) — For Use with Item 7A — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient channel (Item 6E)/gypsum board (Item 7A) ceiling membrane.

5C. Foamed Plastic* — (As alternate to Item 5 and 5A, Not Shown) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 10 in. at a nominal 0.5 lb/ft³ or 2.0 lb/ft³ density, depending on the product installed. Spray foam insulation is limited to use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board (Item 7) spaced maximum 3 in. away from gypsum butt joints. Gypsum board (Item 7) to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. If used with a fire damper (Item 4) in the concealed space, minimum 1 in. clearance to be maintained between damper housing and spray foam insulation. Not evaluated for use with Items 5 or 5B, or 6A through 6E, or 7A. BASF CORP — Enercite® NM, Enercite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, and Walltite® HP+

5D. Foamed Plastic* — (As alternate to Items 5 - not to be used in combination with any alternates to 5) — Spray foam insulation applied directly to the underside of the plywood subflooring. Spray foam insulation installed to a maximum thickness of 11 in. at a nominal 1.0 lb/ft³ - 2.5 lb/ft³ density, while maintaining a minimum 7 in. clearance between the spray foam insulation and the gypsum board (Item 7). Spray foam insulation is limited for use with minimum 18 in. deep trusses (Item 2). When spray foam insulation is installed, resilient channels (Item 6) shall be installed maximum 12 in. OC, with channels adjacent to butt joints of gypsum board spaced maximum 3 in. away from gypsum butt joints. Gypsum board to be installed using minimum 1-1/4 in. long Type S screws, spaced maximum 8 in. OC, and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels, as illustrated above. If used with a fire damper (Item 4) in the concealed space, no clearance is necessary between damper housing and spray foam insulation. Only for use with item 4 not evaluated for use with alternates to item 4. CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCK, SealTite Pro No Trim 21, SealTite Pro One Zero, SealTite PRO HFO, Foamsulate Closed Cell, Foamsulate OCK, Foamsulate 70, Foamsulate HFO, and Foamsulate HFO 21.

6. Resilient Channels — Formed from min 25 MSG galv steel installed perpendicular to trusses. When no insulation is installed in the concealed space resilient channels are spaced 24 in. When the insulation (Item 5) is installed to the underside of the subfloor the resilient channels are spaced 16 in. OC. When insulation (Item 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, or when foamed plastic insulation (Item 5C) is sprayed to the underside of the subfloor, the resilient channel spacing shall be reduced to 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in.

b. Blocking — Where truss design does not permit direct, full contact of the hanger bracket, a piece of nominal 2 by 4 in. lumber (blocking), min. 12 in. long to permit full contact of the hanger bracket, to be secured vertically to the side of the trusses at the top and bottom of the blocking at each Steel Framing Member (Item 6Hc) location with 16d nails or minimum 2-1/2 in. screws.

c. Steel Framing Members* — Used to attach furring channels (Item 6Ha) to trusses. Clips spaced 48 in. OC and secured along truss 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 RSIC-S1-1 Ultra

6i. Steel Framing Members* — (Optional - Not Shown) — Used to attach resilient channels (Item 6) to trusses (Item 2). Clips spaced 48 in. OC and secured to trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet hole. Channels secured to clips with one #10 x 1/2 in. pan-head self-drilling screw. Ends of adjoining channels overlapped 6 in. and secured together with two #8 15 x 1/2 in. Philips Modified screws spaced 2-1/2 in. from the center of the overlap. Gypsum board butt joints require additional resilient channels spaced 1-1/2 in. from the butt joint on either side. One edge of the extra channels will extend to an adjacent truss where it is secured with a clip. KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

6j. 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 24 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. Gypsum Board butt joints staggered minimum 24 in. OC and Gypsum Board screws spaced 8 in. OC when used. PAC INTERNATIONAL L L C — Type RC-1 Boost

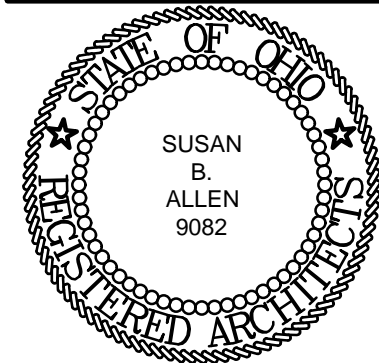
6k. Steel Framing Members* — (Optional, Not Shown, As an alternate to Item 6) — Furring channels and Steel Framing Members as described below.

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. When there is no insulation installed in the concealed space the furring channels are spaced 24 in. OC max perpendicular to trusses. When insulation (Item 5) is secured to the underside of the subfloor the furring channels are spaced 16 in. OC max. When insulation (Item 5) is applied over the furring channels/gypsum panel ceiling membrane, the furring channels are spaced 12 in. OC max. Channels secured to trusses as described in Item 6k. 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. Additional clips required to hold furring channel that supports the wallboard butt joints, as described in Item 7.

b. Steel Framing Members* — Used to attach furring channels (Item 6Ka) to trusses (Item 2). Clips spaced 48 in. OC max 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 Clips

7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane the screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail. When foamed plastic insulation (Item 5C) is applied to the underside of the subflooring, screw spacing shall be reduced to 8 in. OC and minimum 1-1/4 in. long Type S screws to install gypsum to the resilient channels (Item 6), and butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 6A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from board edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 2 ft OC. When Steel Framing Members (Item 6B, 6C, 6K) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be



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

REVISIONS

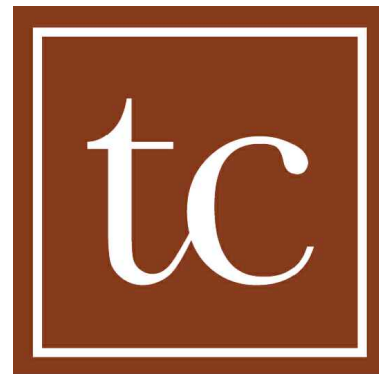
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UL ASSEMBLIES GERMANTOWN CROSSING DAYTON OHIO



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

TURNING VISIONS INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

A611

DRAWING NUMBER

Feedback

5

Feedback

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Feedback

9

Feedback

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Feedback

9

Feedback

10

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 5 bangle-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. 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 6E) 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 bangle-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 SonusClip 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 5 bangle 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 ULX

UNITED STATES GYPSUM CO — Type ULX

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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- 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.

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. L556

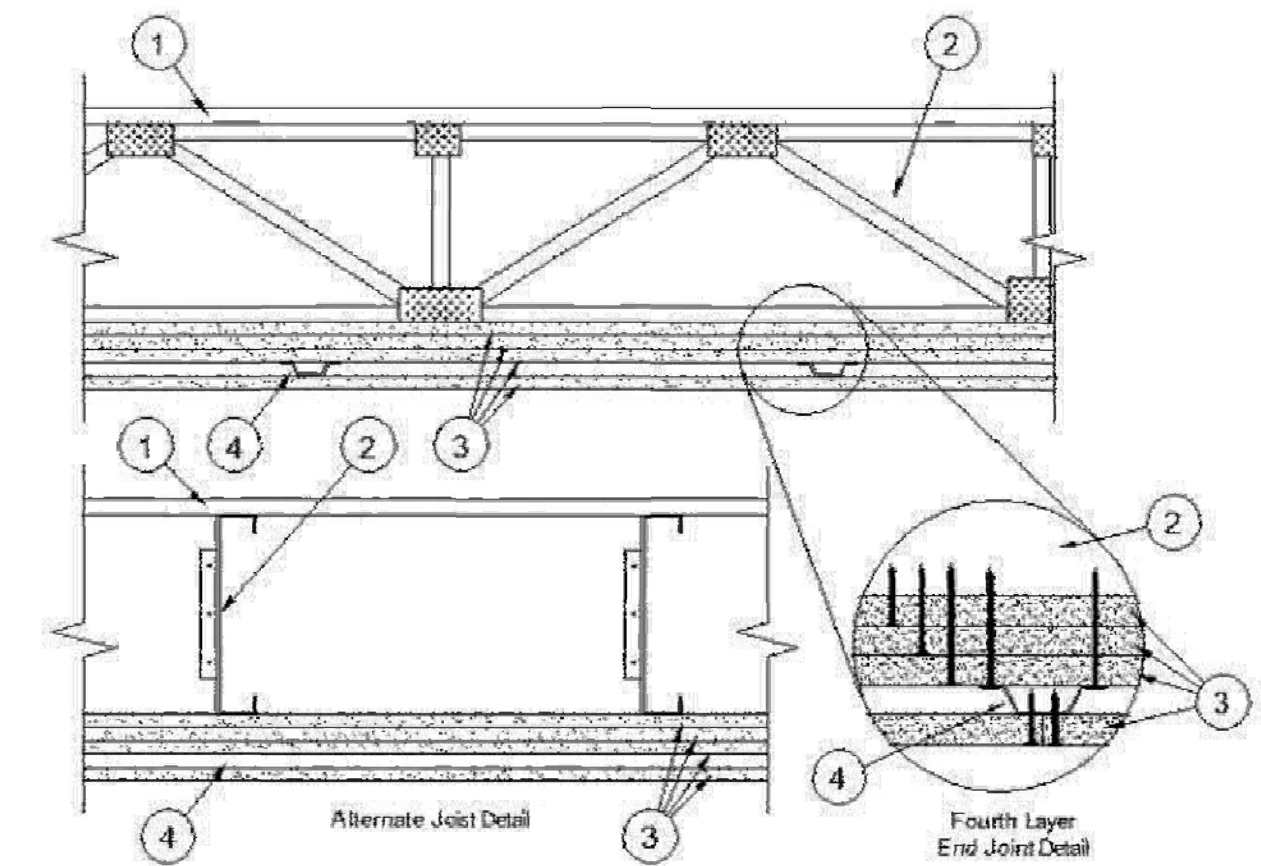
April 04, 2023

Unrestrained Assembly Rating - 2 Hr

Finish Rating - 2 Hr

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.



1. Flooring System — The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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 DE 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) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

GRASSWORK L L C — Type SC50

System No. 2

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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.

MAXION CORP — Type Maxion Standard and Maxion High Strength

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.

MAXION CORP — Type Encapsulated Sound Mat.

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

Metal Lath — (Optional) - 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

System No. 3

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250, Quiet Qurl 55/025

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400, Quiet Qurl 60/040

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750, Quiet Qurl 65/075

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 4

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 5

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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 NewGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

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 3/4 in.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, D38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 6

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, and SheMix

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 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, and R2

System No. 7

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with 2 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 edges, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.

ECTEK INTERNATIONAL INC — Type MegaBoard

Finish Flooring — Any finished flooring outlined in the Systems in this design.

System No. 9

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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 (CCOX) 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) — 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 — Types Quiet Qurl 55/025 and Quiet Qurl 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 — Types Quiet Qurl 60/040 and Quiet Qurl 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 — Types Quiet Qurl 65/075, Quiet Qurl 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 — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

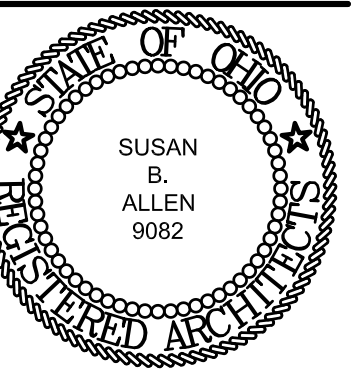
Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.

KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 10

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.



SUSAN B. ALLEN
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Expiration Date 12/31/2023

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03/31/2023

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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.
DEPENDABLE LLC — Types GSL M3.4, 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 — Types Quiet Curl 55/025 and Quiet Curl 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 — Types Quiet Curl 60/040 and Quiet Curl 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 — Types Quiet Curl 65/075, Quiet Curl 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 — Types Quiet Curl 52/013 and Quiet Curl 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 — Types Quiet Curl 55/025 MT and Quiet Curl 55/025 N MT

System No. 11

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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** (CCOX) 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) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-floor 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-floor, Acousti-floor CSM. Floor topping thickness depends on products used as follows:

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

Acousti-floor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

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

Acousti-floor (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. 12

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with

construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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. 13

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

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 (CCOX) 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 — EnkaSonic® 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.

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.

2. Structural Wood Members — Min 9-1/4 in. deep "I" - shaped wood joists spaced a max 24 in. OC. Min joist bearing on bearing plates 2 in. Joists secured to bearing plates with two 8d steel nails at each end. Circular holes may be cut in the web of the joists in accordance with the manufacturer's published design specifications.

2A. Wood Joists — As an alternate to Item 2, Nominal 2 by 8 or nominal 2 by 10 in. wood joists spaced 24 in. OC, fire-stopped or min. 18 in. deep parallel chord trusses spaced a max 24 in. OC fabricated from nom 2 by 4 in. lumber with lumber oriented either vertically (2A) or horizontally (2B). Truss members secured together with No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.

2B. Steel Channel Joists — As an alternate to Item 2, steel channel-shaped joists, min 8 in. deep with min 1-1/2 in. flanges and 1/4 in. stiffening flanges. The joists are fabricated from min 18 MSG galv steel. Min yield strength is 33 ksi. Joists spaced max 24 in. OC. Steel channel joists, perimeter supports, web stiffeners, bridging straps, blocking and blocking clips designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members, published by the American Iron and Steel Institute.

3. Gypsum Board* — **Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. LS01 or GS12.** Four layers of nom 5/8 in. thick, 4 ft wide gypsum board. First three layers installed with long dimension perpendicular to bottom chord of structural members. Adjacent butt joints staggered approximately 4 ft OC. Overlapping layers installed so that edges and butt joints offset min 10 in. from previous layer. Base layer fastened to bottom chord of structural members with 1-1/4 in. long Type W or S-12 steel screws spaced 12 in. OC. Second layer secured to bottom chord of structural members with 2 in. long Type S or S-12 steel screws spaced 12 in. OC. Third layer secured to bottom chord of structural members with 2-1/2 in Type S or S-12 steel screws spaced 12 in.

OC. Fourth layer secured to resilient channels with 1-1/8 in. long Type S steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.
AMERICAN GYPSUM CO (View Classification) — CKNXR14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNXR19374

CABOT MANUFACTURING ULC (View Classification) — CKNXR25370

CERTAINTEEED GYPSUM INC (View Classification) — CKNXR3660

CGC INC (View Classification) — CKNXR19751

CERTAINTEEED GYPSUM INC (View Classification) — CKNXR18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNXR2717

NATIONAL GYPSUM CO (View Classification) — CKNXR3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNXR7094

PANEL REY S A (View Classification) — CKNXR21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNXR19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNXR27517

UNITED STATES GYPSUM CO (View Classification) — CKNXR1319

USG MEXICO S A DE C V (View Classification) — CKNXR16089

4. Resilient Channels — Hat shaped channels formed from No. 25 MSG galv steel spaced 24 in. OC perpendicular to structural wood members. Channels secured to bottom chord of structural member through third layer of gypsum board with 2-1/2 in. Type S or S-12 steel screws spaced 12 in. OC.

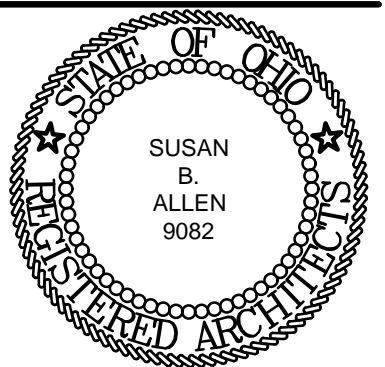
5. Finishing System — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

* 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 2023-04-04

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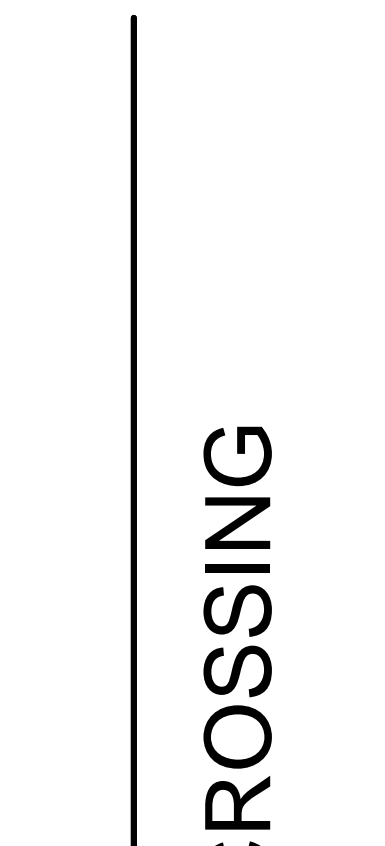


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82A21

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A613

DRAWING NUMBER

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.	--	--
A08	BATHROOM	CT-1	CB-2	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	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
B07	CLOSET	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
B08	BEDROOM	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
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	PANTRY	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
C04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
C04A	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
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	PANTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
D04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
D04A	LINEN	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	--	--
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	LINEN	LVP-1	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
F04	BATHROOM	CT-1	CB-2	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-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
F15	LINEN	CT-1	CB-2	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	PANTRY	LVP-4	RB-1	P-1	P-1	P-1	P-1	GYP BD.	--	--
G04	BATHROOM	CT-1	CB-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G04A	LINEN	CT-1	CB-2	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.	--	--

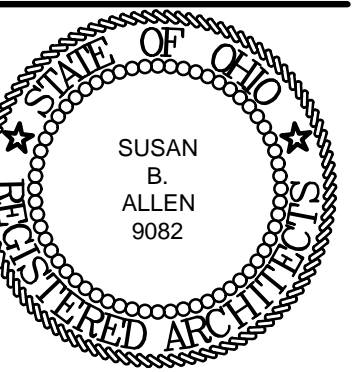
FINISH SCHEDULE - UNITS

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-2	P-8	P-8	P-8	P-8	GYP BD.	CM-1	--
G16	LINEN	CT-1	CB-2	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 / WP-1	P-4 / WP-1	GYP BD.	--	--
C102	TRASH COMPACTOR	SC-1	RB-2	P-4	P-4	P-4	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 / WP-1	P-4 / WP-1	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 / WP-1	P-4 / WP-1	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 / WP-1	P-4 / WP-1	P-4	P-4	GYP BD.	--	--
THIRD FLOOR COMMON AREAS										
C301	TRASH	LVP-2	RB-2	P-4	P-4 / WP-1	P-4 / WP-1	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	P-4	P-4	P-4	P-4	GYP BD.	--	--
C305	DATA	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C306	STORAGE	LVP-2	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
C307	CORRIDOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	ACT-1 / GYP BD.	--	SEE FINISH PLANS FOR ACCENT PAINT
C308	TRASH	LVP-2	RB-2	P-4 / WP-1	P-4 / WP-1	P-4	P-4	GYP BD.	--	--
STAIRS / ELEVATORS										
E-1	ELEVATOR	LVP-2	RB-2	P-4	P-4	P-4	P-4	--	--	--
STA	STAIR A	RBST-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--
STB	STAIR B	RBST-1	RB-2	P-4	P-4	P-4	P-4	GYP BD.	--	--

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FINISH SCHEDULES
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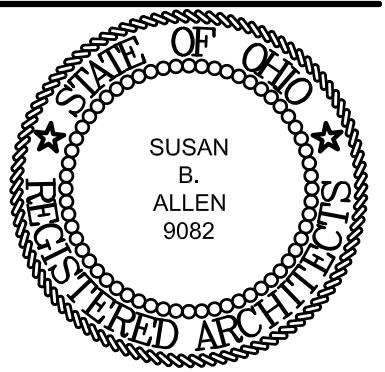
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FINISH LEGEND

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	COMMON AREA TOILET ROOMS
CB-2	6" CERAMIC COVE BASE	--	--	UNIT BATHROOMS
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	--
WP-1	WALL PROTECTION	--	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:

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

FINISH LEGEND
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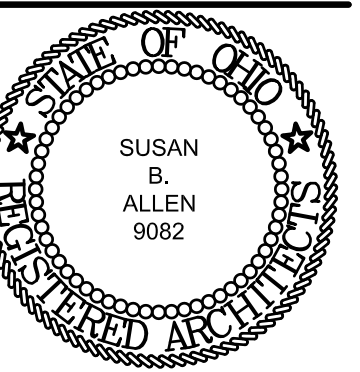
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82A21

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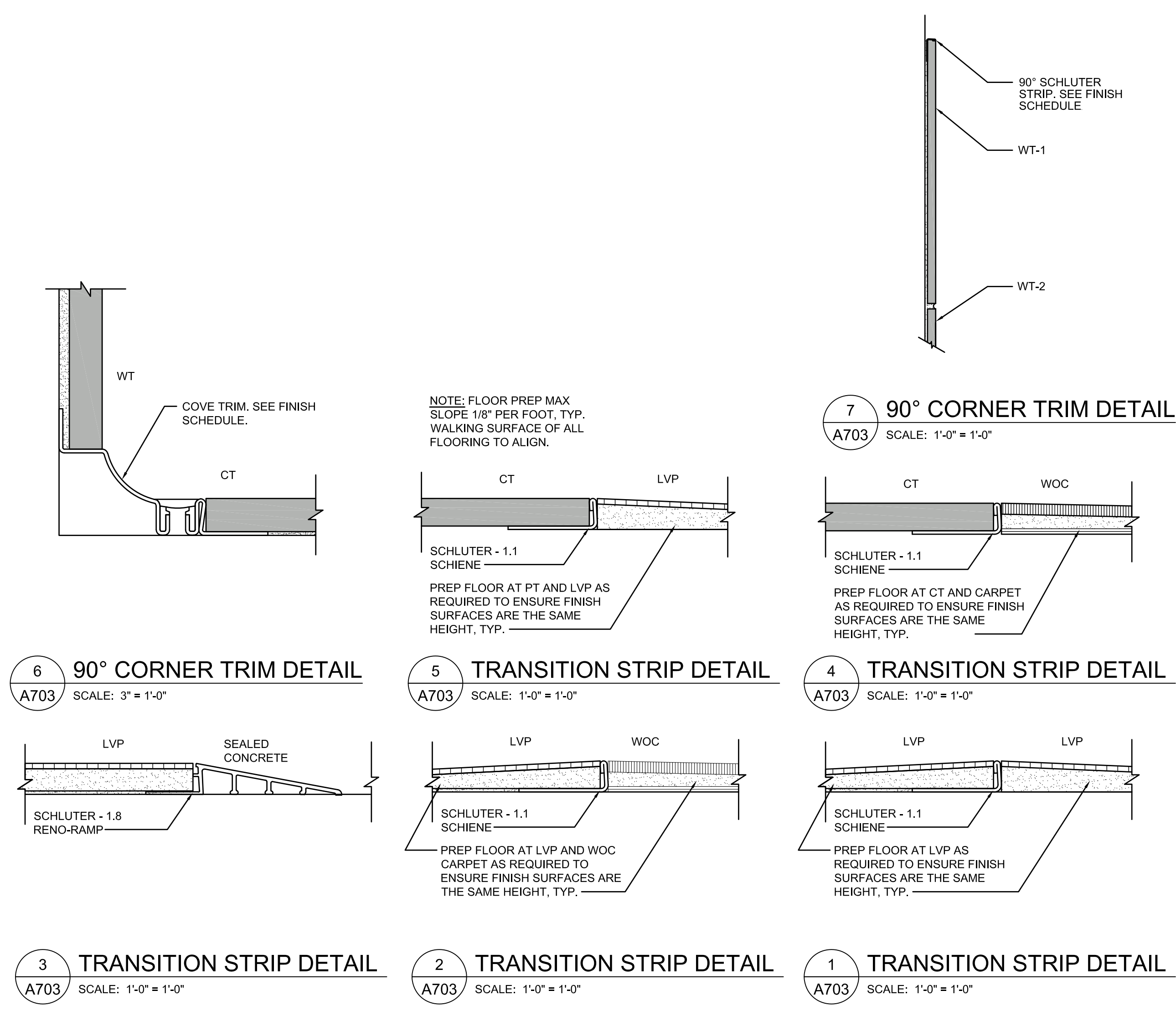
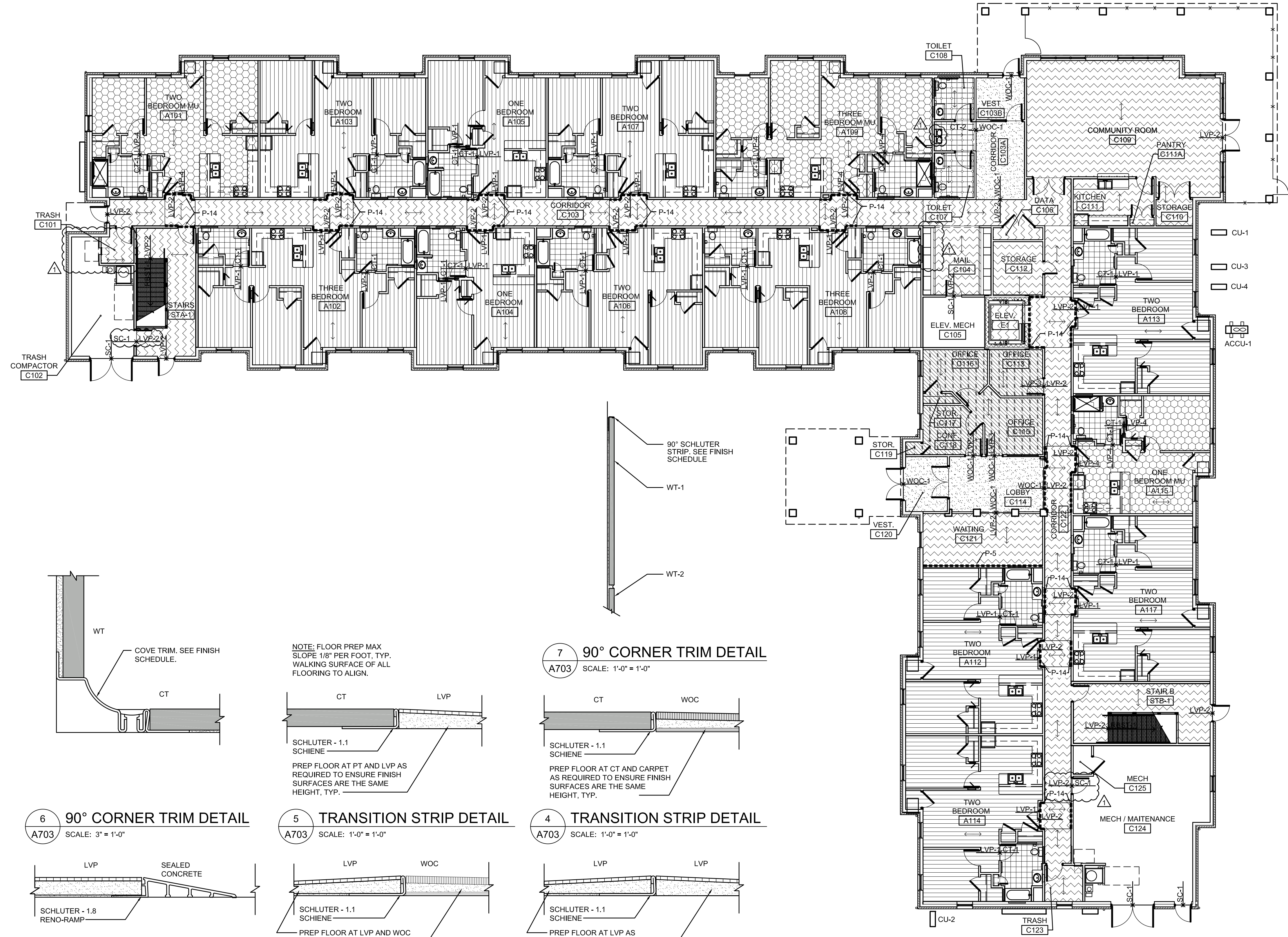
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LEGEND

	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



1 FIRST FLOOR FINISH PLAN
A703 SCALE: 3/32" = 1'-0" 18,287 SF

PLAN NORTH ACTUAL

FIRST FLOOR FINISH PLAN
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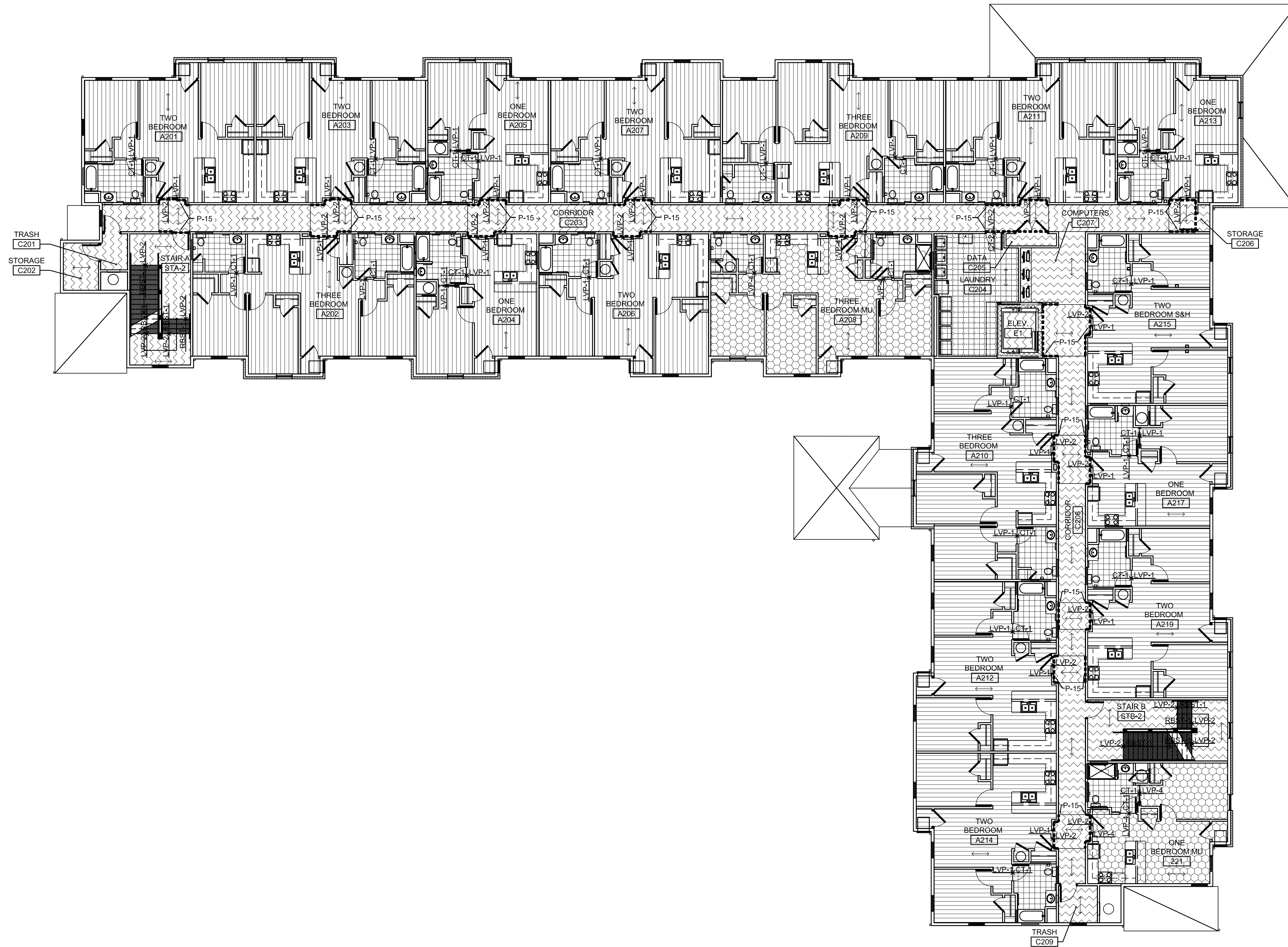
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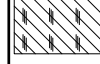


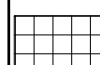

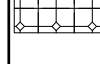

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A703
DRAWING NUMBER

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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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SECOND FLOOR FINISH PLAN
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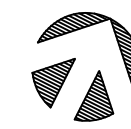
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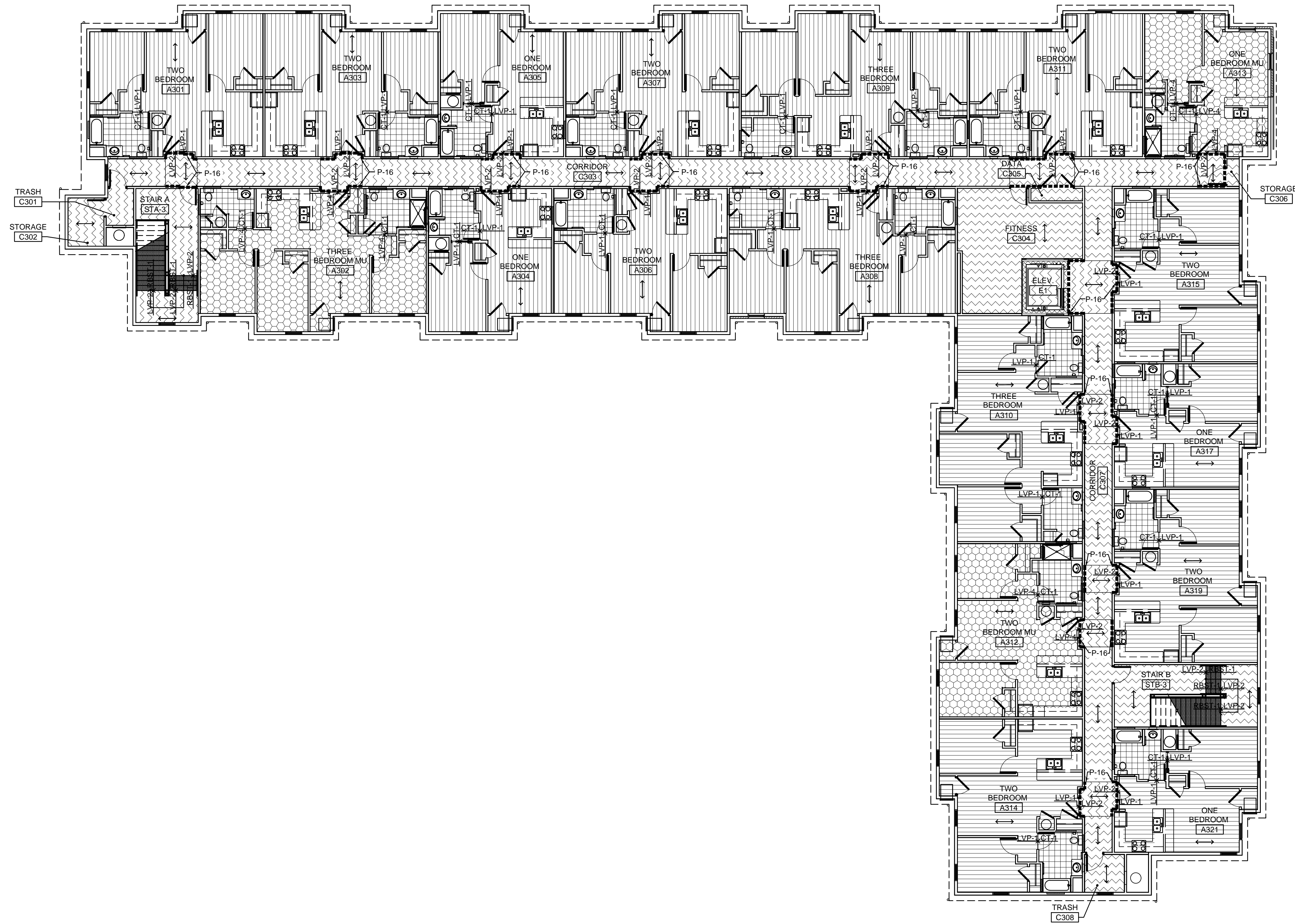
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A704
DRAWING NUMBER

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

 **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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THIRD FLOOR FINISH PLAN
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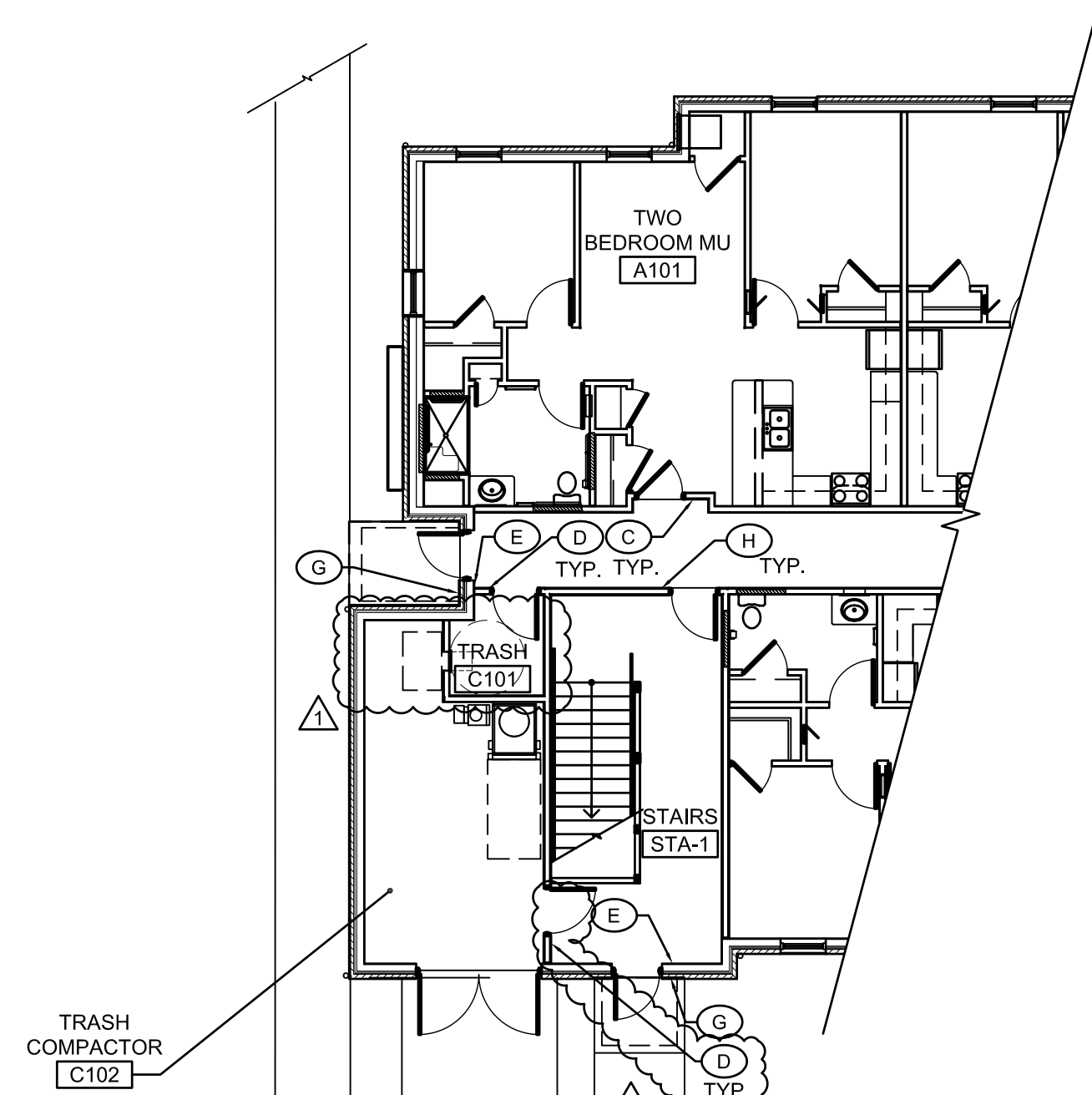
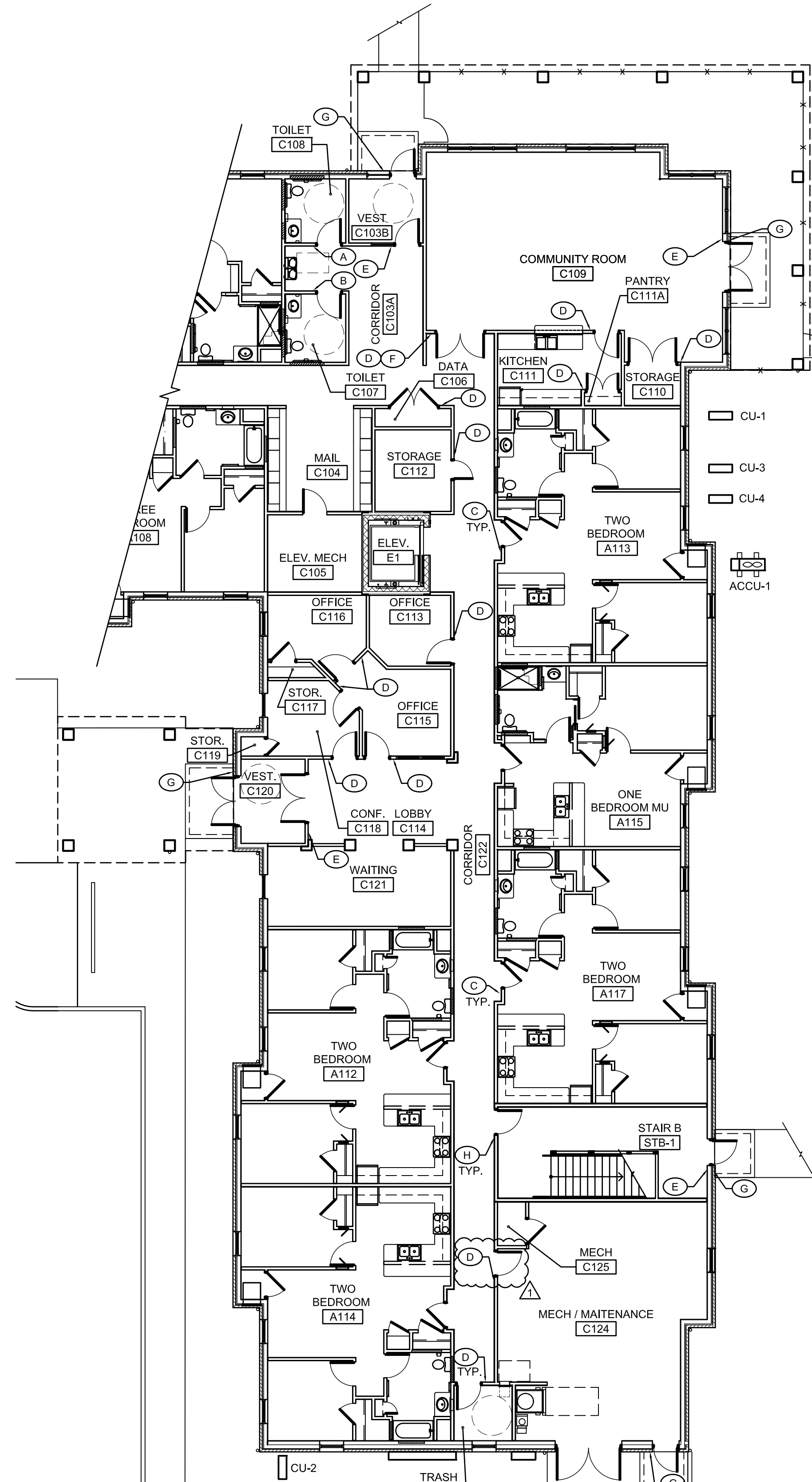
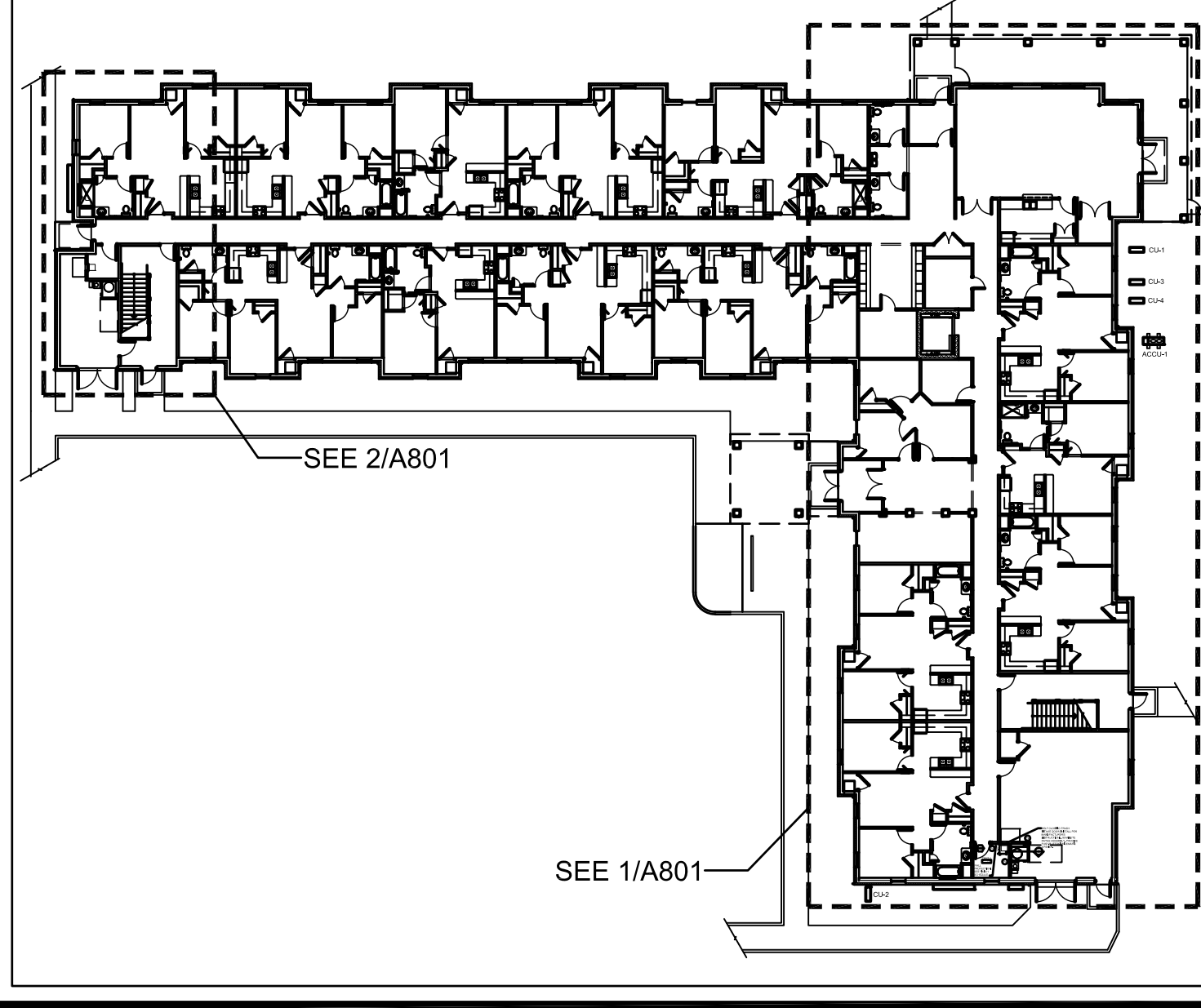
03/31/2023
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82A21
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A705
DRAWING NUMBER

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

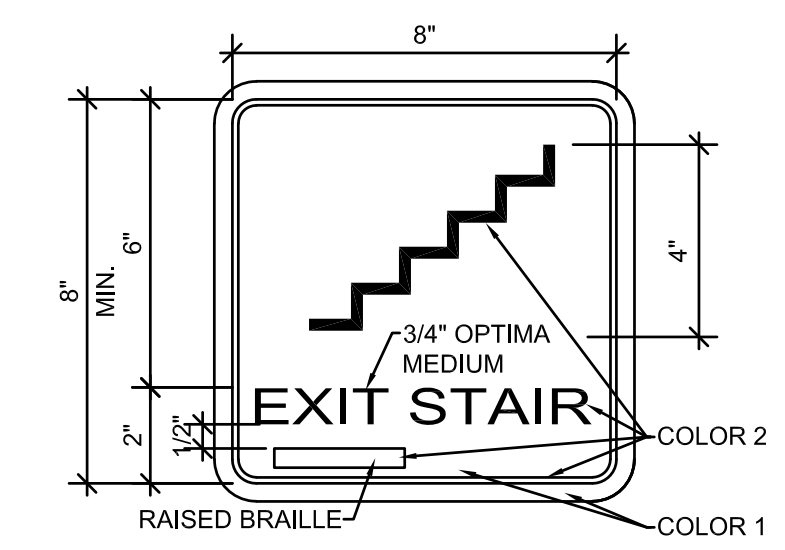
PLAN NORTH ACTUAL

KEY PLAN - FIRST FLOOR

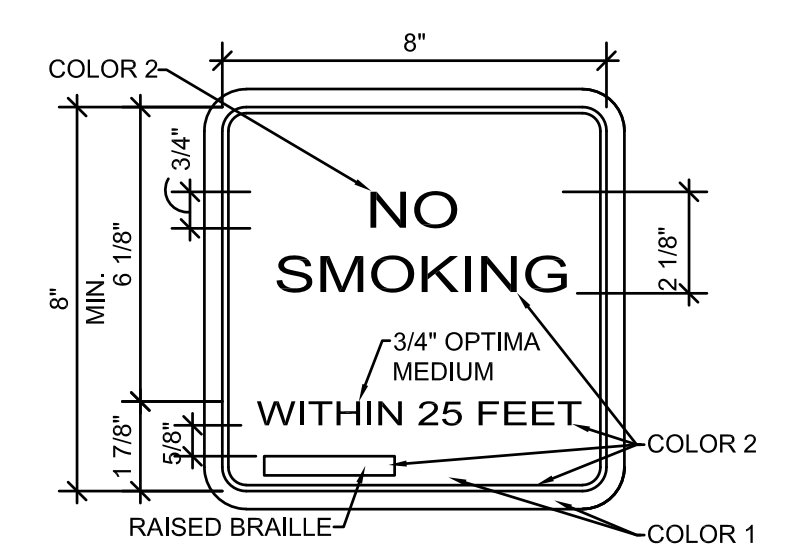


2 PARTIAL FIRST FLOOR PLAN
A801 3/32" = 1'-0"

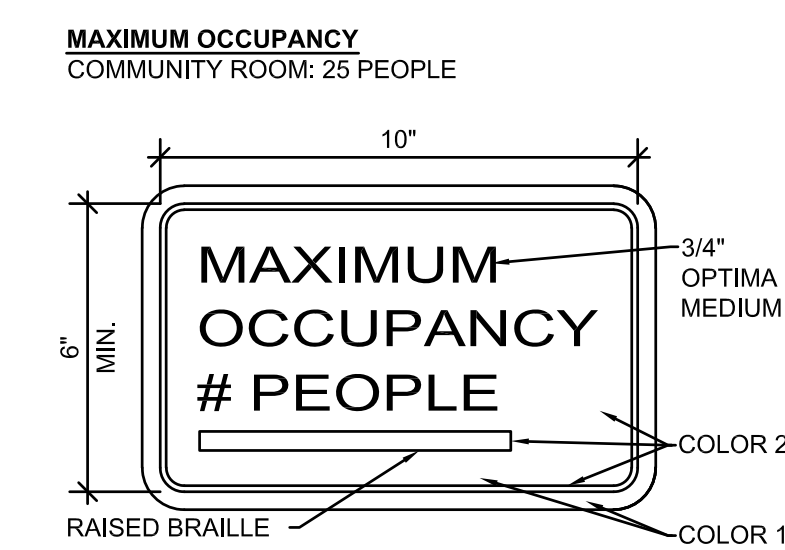
1 PARTIAL FIRST FLOOR PLAN
A801 3/32" = 1'-0"



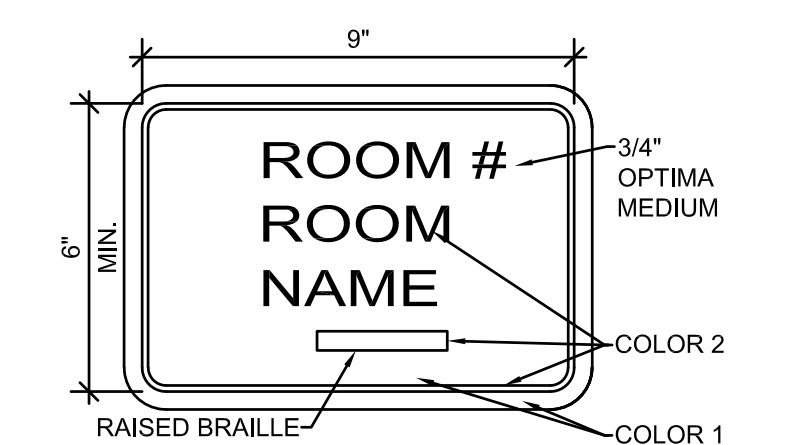
H EXIT STAIR
A801 NOT TO SCALE



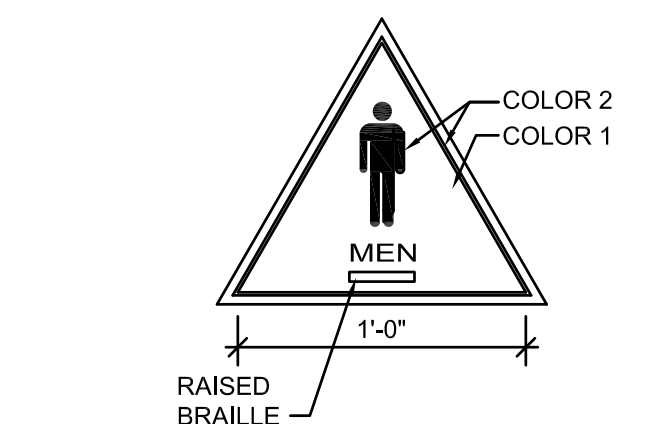
G NO SMOKING
A801 NOT TO SCALE



F MAX. OCCUPANCY SIGN
A801 NOT TO SCALE

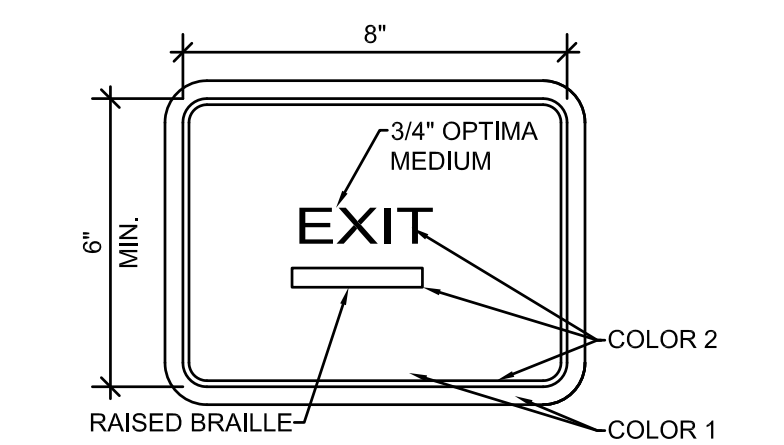


D IDENTIFICATION SIGN
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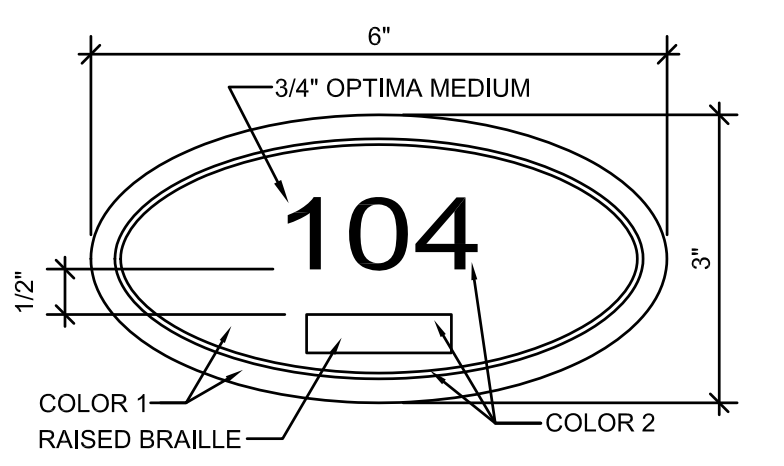


B MEN'S ROOM SIGN
A801 NOT TO SCALE

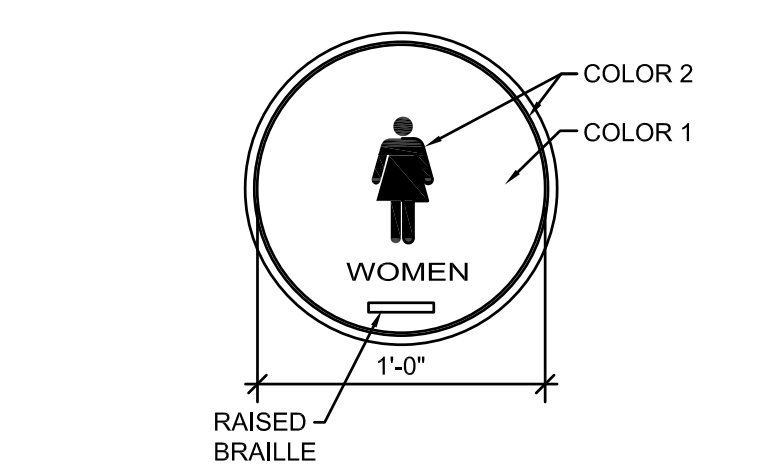
- GENERAL SIGNAGE NOTES**
- SIGNAGE SHALL CONSIST OF ROOM NUMBER AND ROOM FUNCTION TO MEET THE REQUIREMENTS OF "ICC A117.1-2009", A.H.D. UFAS, AND ALL LOCAL GOVERNING LAWS AND CODES WHETHER SHOWN OR NOT.
 - TACTILE CHARACTERS SHALL BE RAISED 1/32" FROM SIGN FACE.
 - GLUE-ON LETTERS OR ETCHED BACKGROUNDS ARE NOT ACCEPTABLE. MINIMUM 3/8" REQUIRED.
 - ALL TEXT TO BE ACCOMPANIED BY GRADE 2 BRAILLE, WITH 1/2" SEPARATION FROM CORRESPONDING RAISED CHARACTERS OR SYMBOLS.
 - ALL LETTERS, NUMBERS, AND/OR SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
 - CHARACTERS AND BACKGROUND SHALL HAVE NON-GLARE FINISH.
 - TACTILE COPY OF THE SIGNS SHALL BE MOUNTED 60" A.F.F. MAX. TO CENTER OF SIGN ON LATCH SIDE OF THE DOOR, 5" FROM DOOR FRAME.
 - PROVIDE EXIT SIGNS AT ALL EXIT DOORS.
 - SIGN DESIGNS ARE SHOWN FOR DESIGN AND BID PURPOSES ONLY. EXACT TEXT AND COLORS ARE TO BE DETERMINED.
 - CONTRACTOR TO PROVIDE FULL SIZE SIGN SAMPLE OF EACH TYPE, AND ACTUAL MATERIAL COLOR SAMPLES WITH SHOP DRAWING SUBMISSION.
 - ALL SIGNS MOUNTED ON GLASS ARE TO HAVE A COORDINATING BACKER PANEL MOUNTED ON THE OPPOSITE SIDE OF THE GLASS.
 - EXTERIOR SIGNAGE TO BE COORDINATED WITH SIGNAGE VENDOR.
 - ALL SIGNS ADJACENT TO DOORS SHALL BE LOCATED ON THE LATCH SIDE OF THE DOOR AT A HEIGHT OF 54"-66" PER UFAS 4.30
 - SEE SHEET A801 FOR SIGNAGE TYPES.



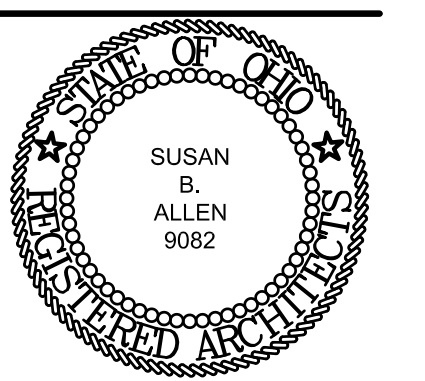
E EXIT SIGN
A801 NOT TO SCALE



C UNIT SIGN
A801 NOT TO SCALE



A WOMEN'S ROOM SIGN
A801 NOT TO SCALE



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Expiration Date 12/31/2023

REVISIONS

1	BULLETIN 01 07/17/2023

INTERIOR SIGNAGE PLANS
GERMANTOWN CROSSING
DAYTON OHIO



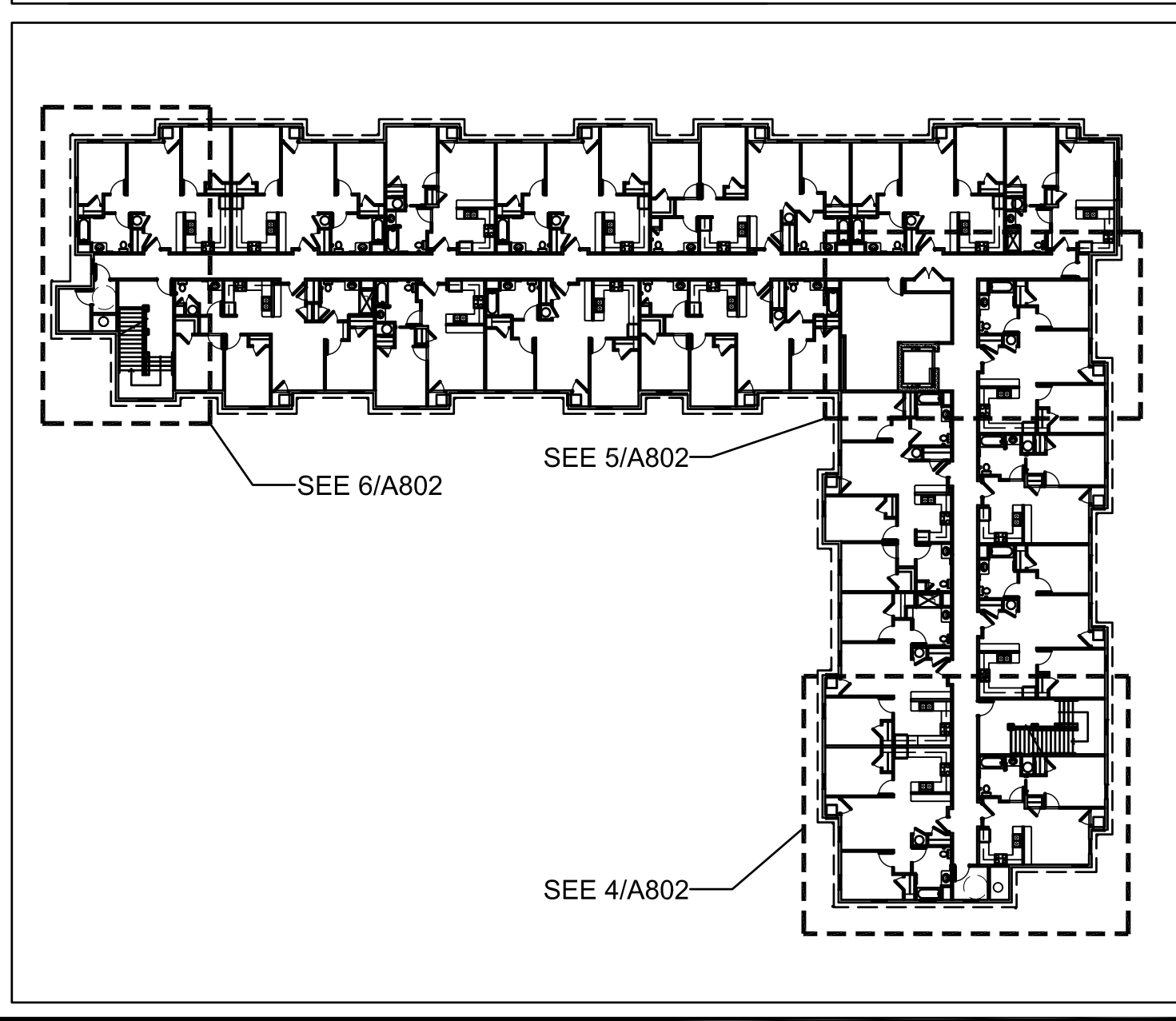
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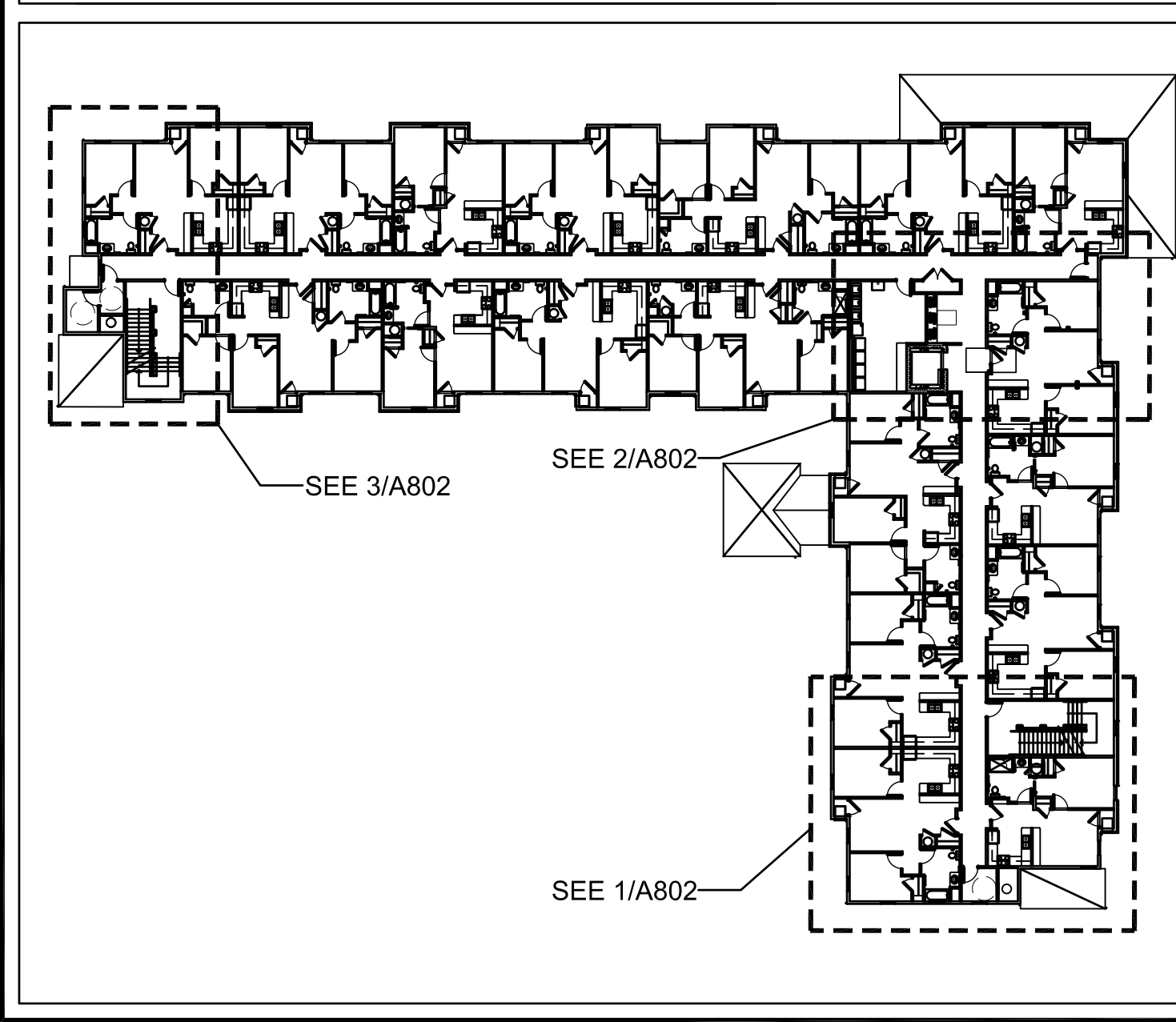
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KEY PLAN - THIRD FLOOR

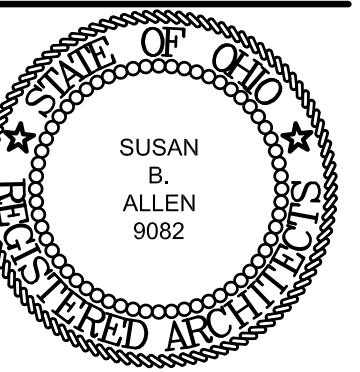


KEY PLAN - SECOND FLOOR



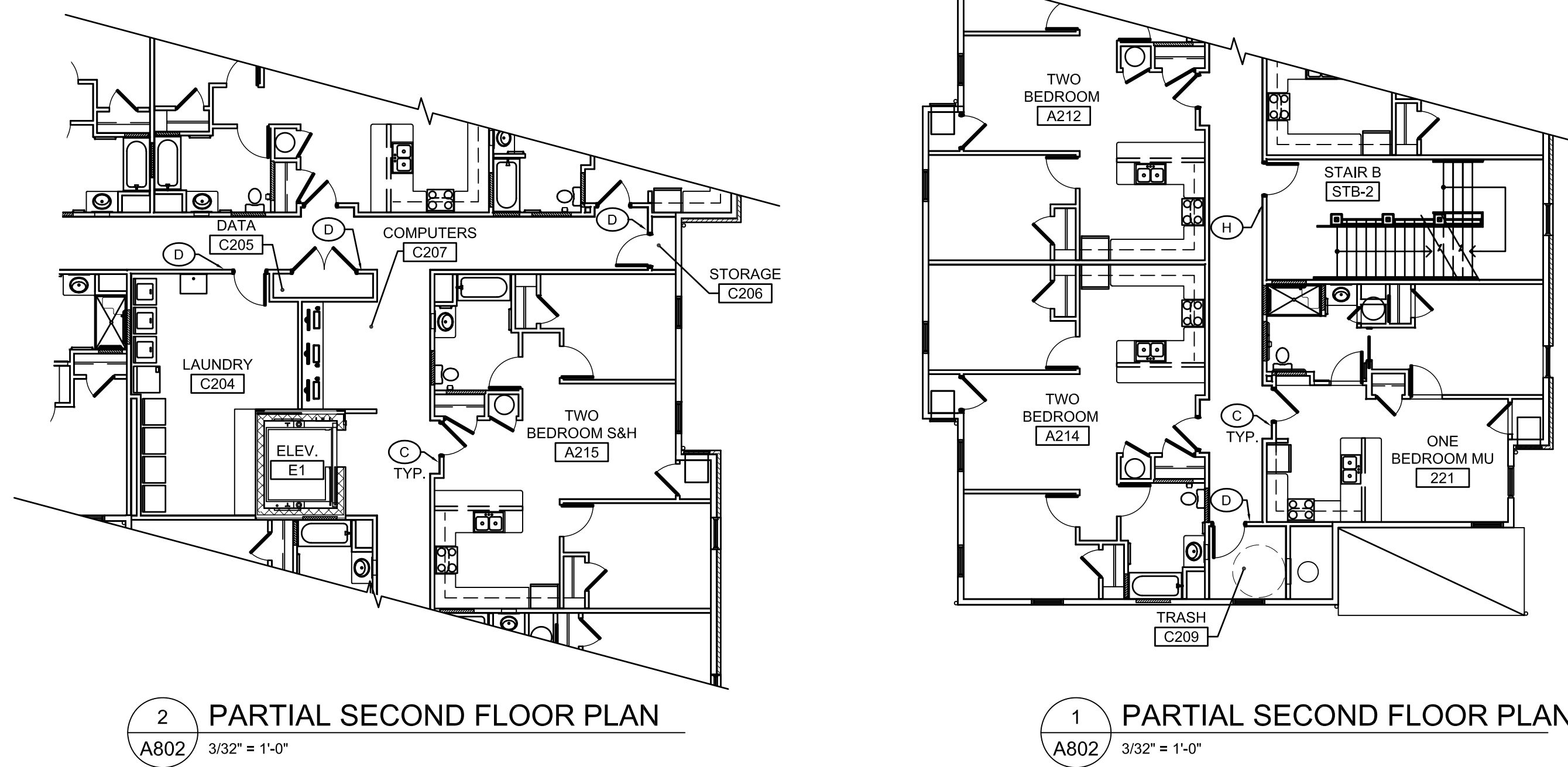
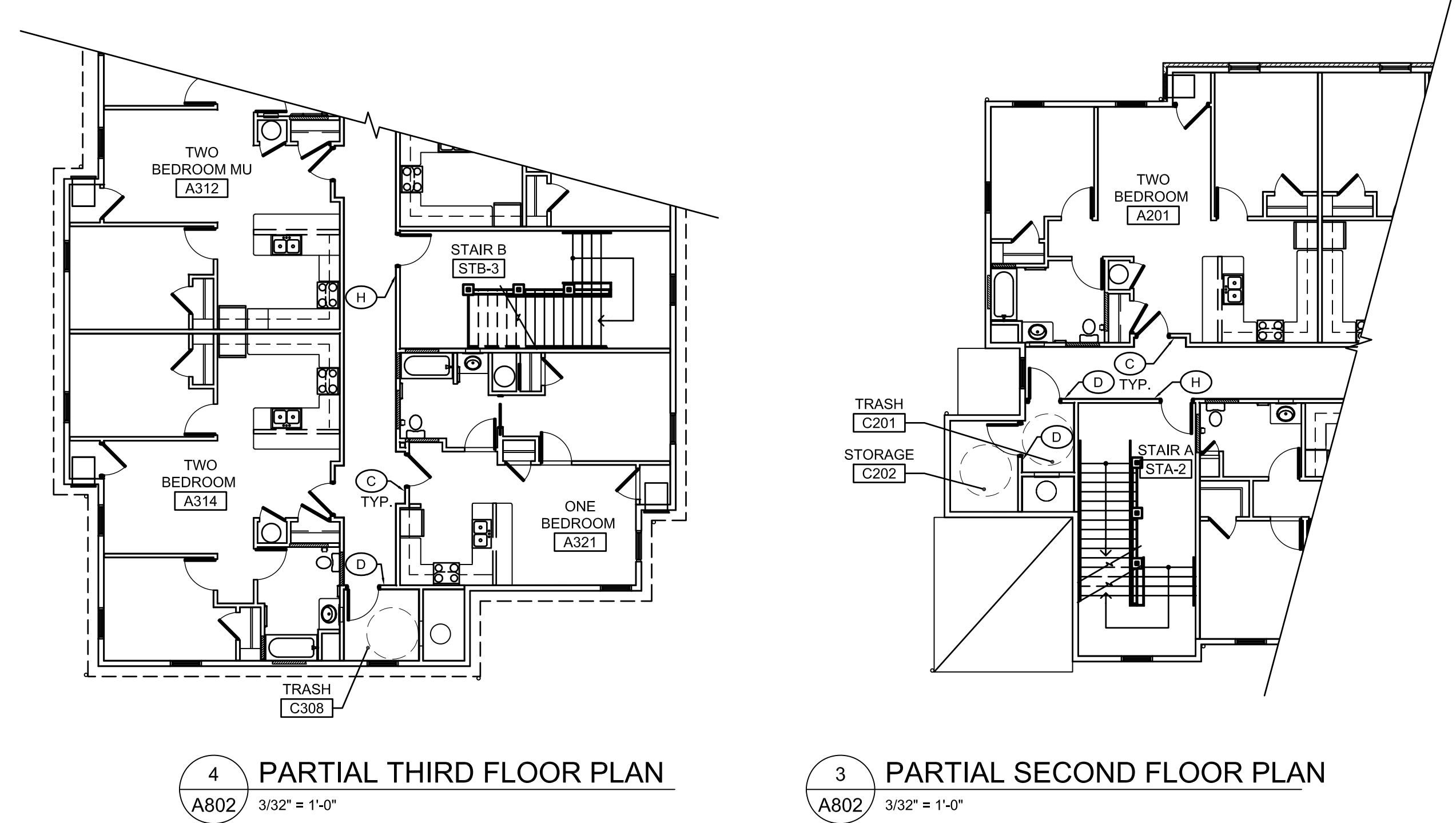
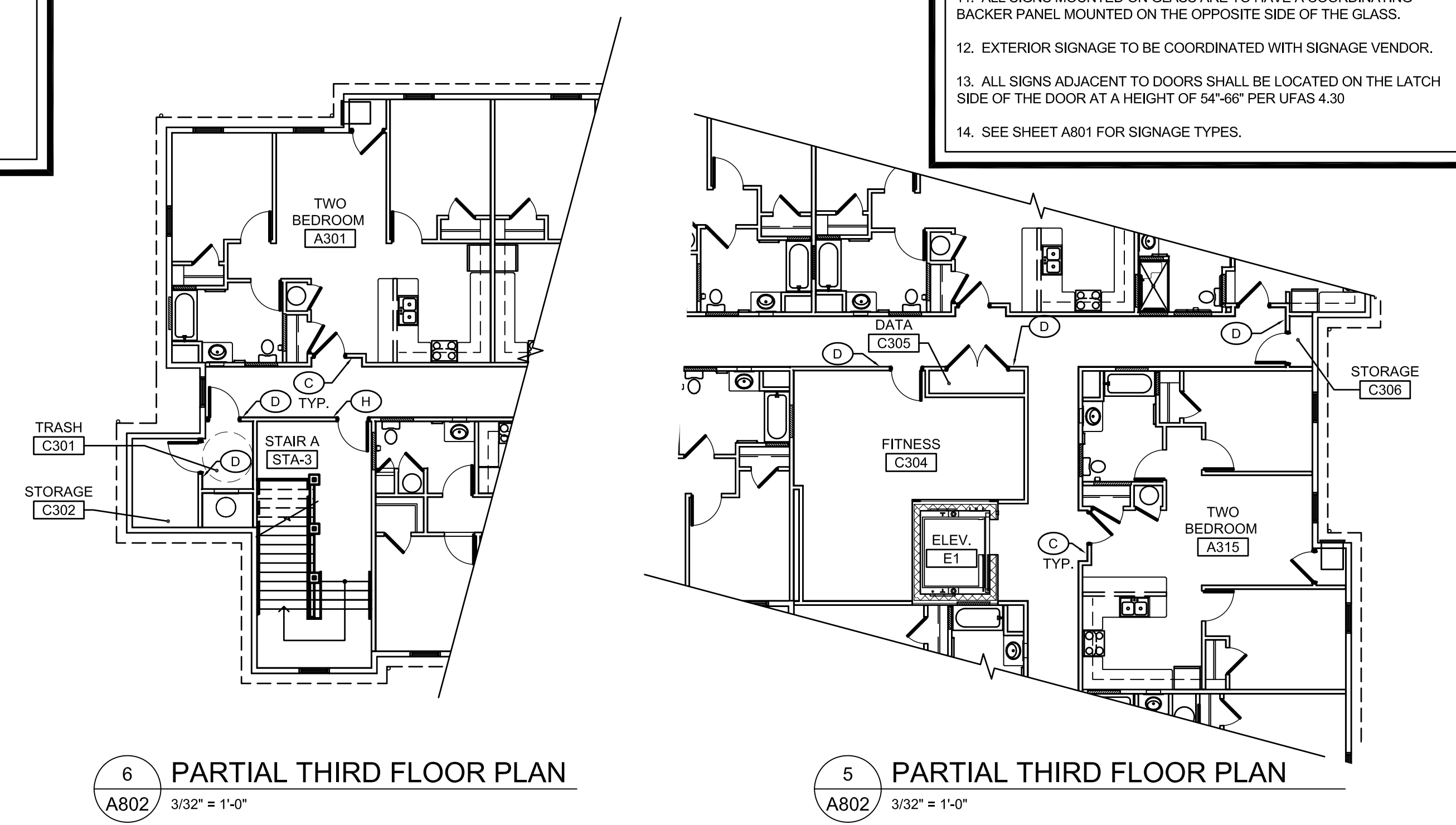
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REVISIONS



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INTERIOR SIGNAGE PLANS
 GERMANTOWN CROSSING
 DAYTON OHIO



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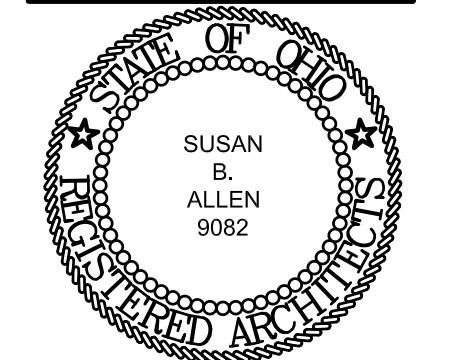
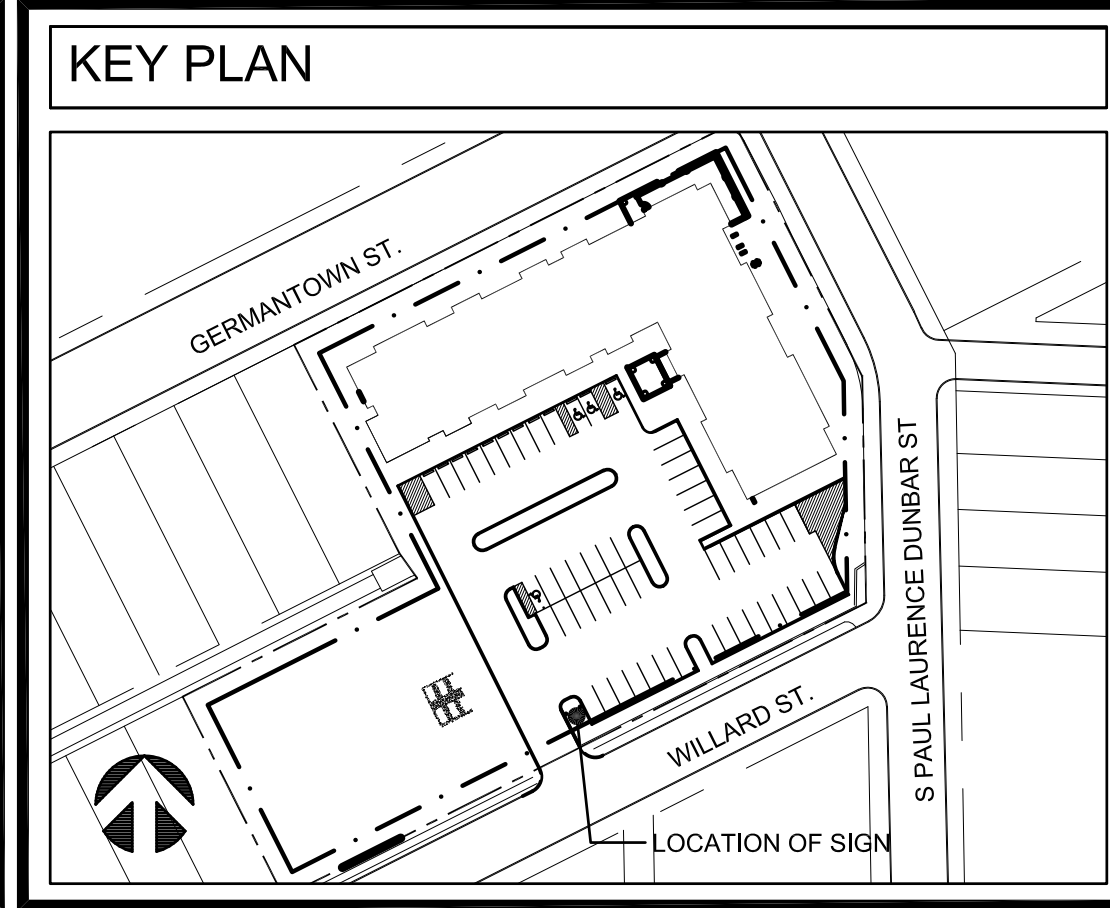
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DATE
82A21
PROJECT NUMBER

A802
DRAWING NUMBER



GENERAL NOTES

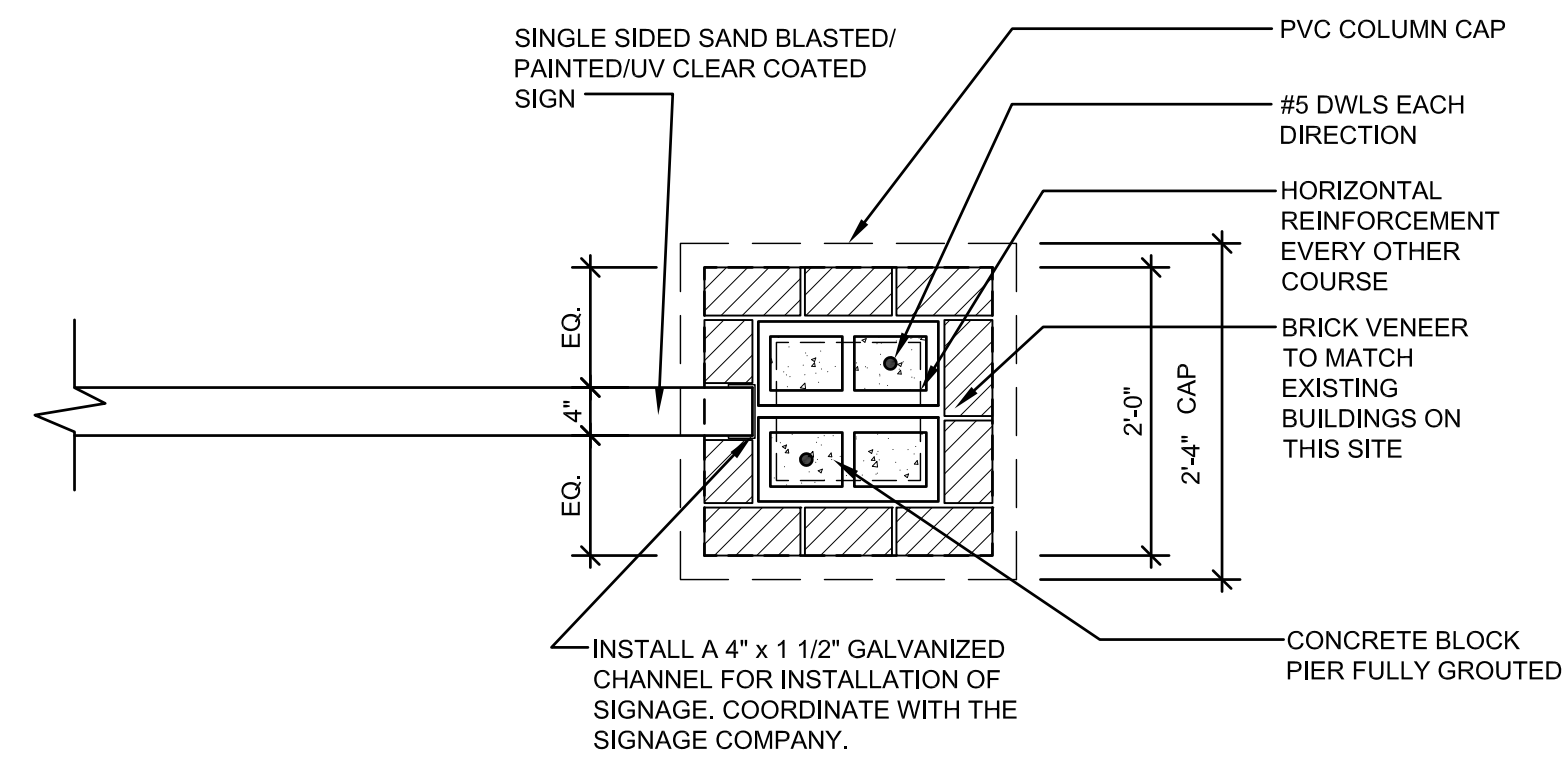
- MAX HEIGHT ALLOWED: 5'-0"
- MAX SIGN AREA: 25 SF
PROVIDED: 18 SF
- RESEED AS REQUIRED AT ALL DISTURBED AREAS
- COLORS TO BE:
GDPM BLUE RGB CODE = 37, 66, 146
GDPM GREEN RGB CODE = 0, 182, 74



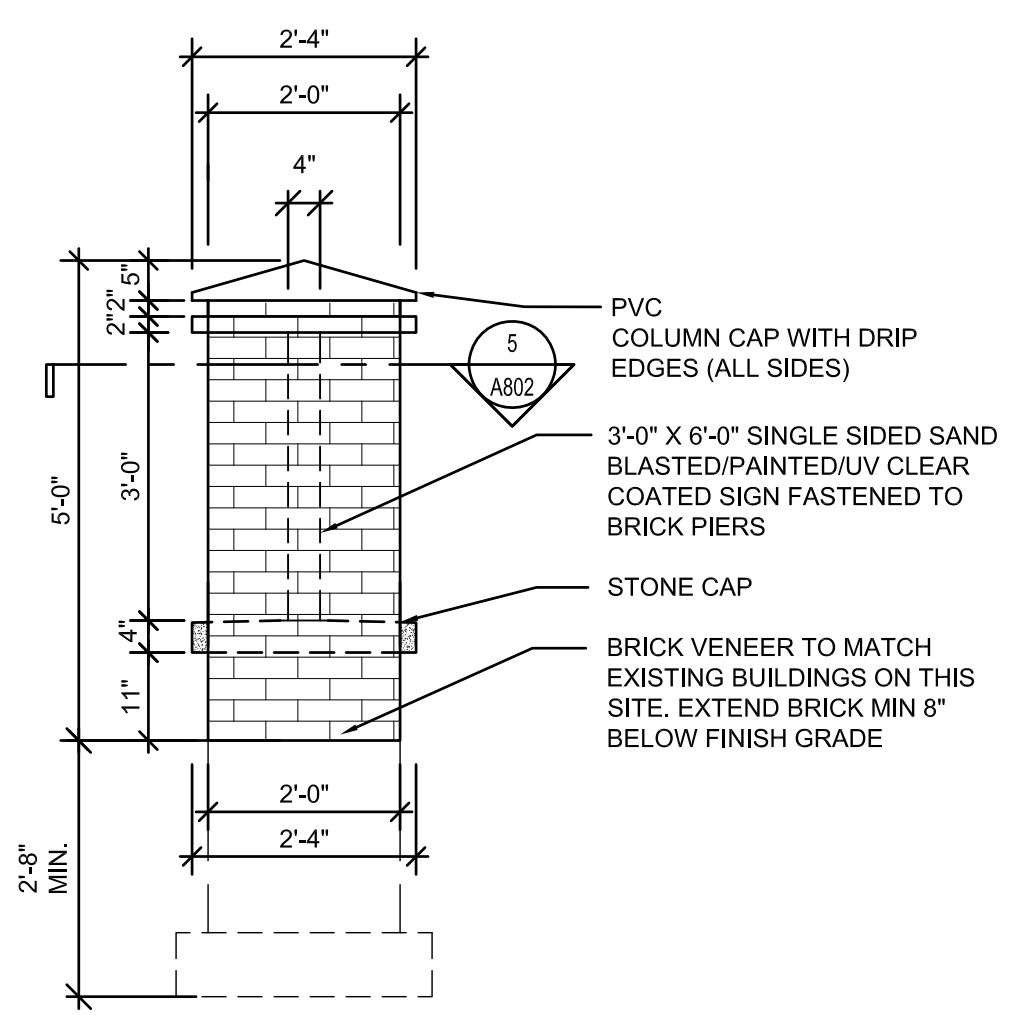
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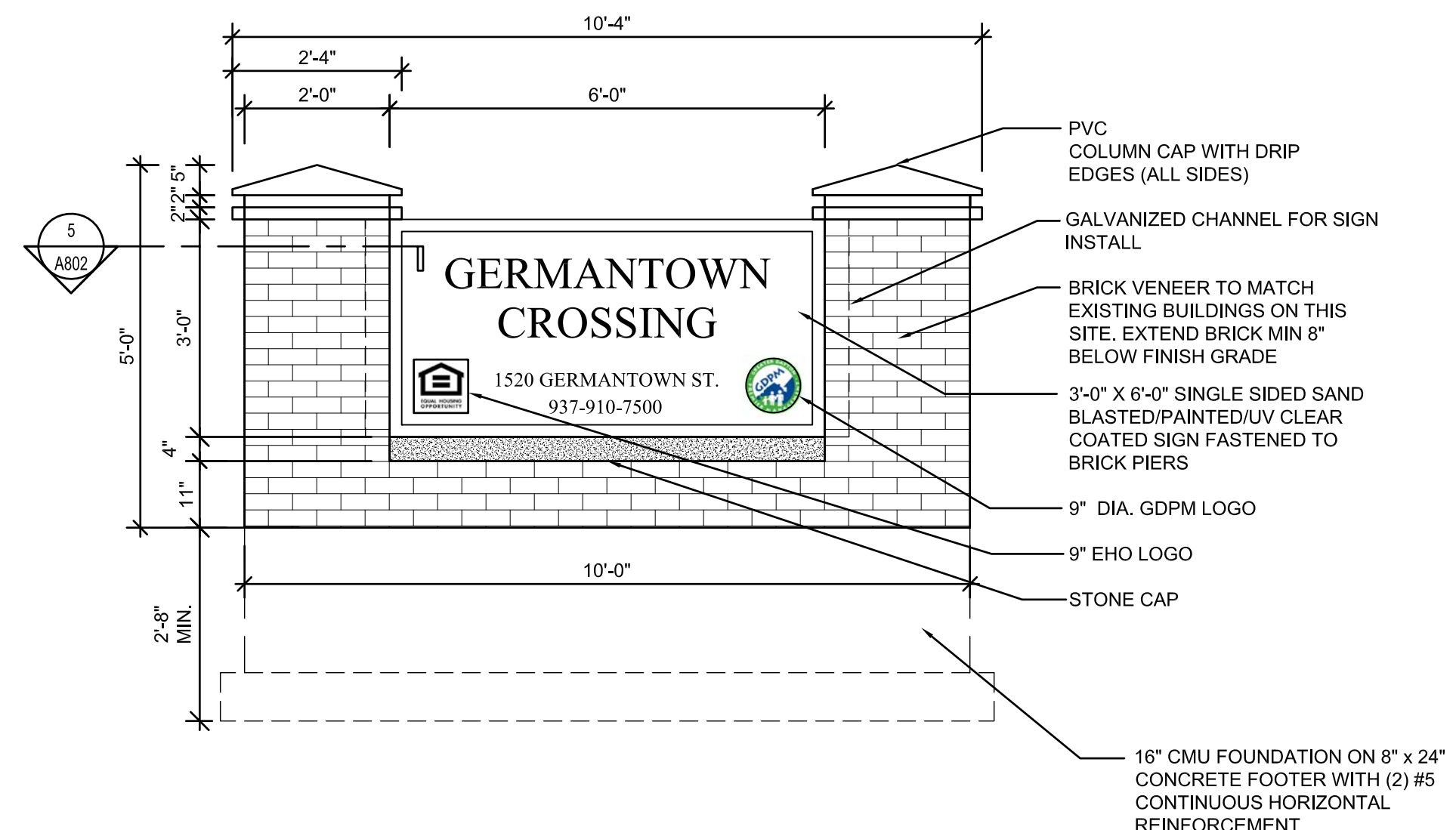
6
A803 ENLARGED SIGN ELEVATION
SCALE 1 1/2" = 1'-0"



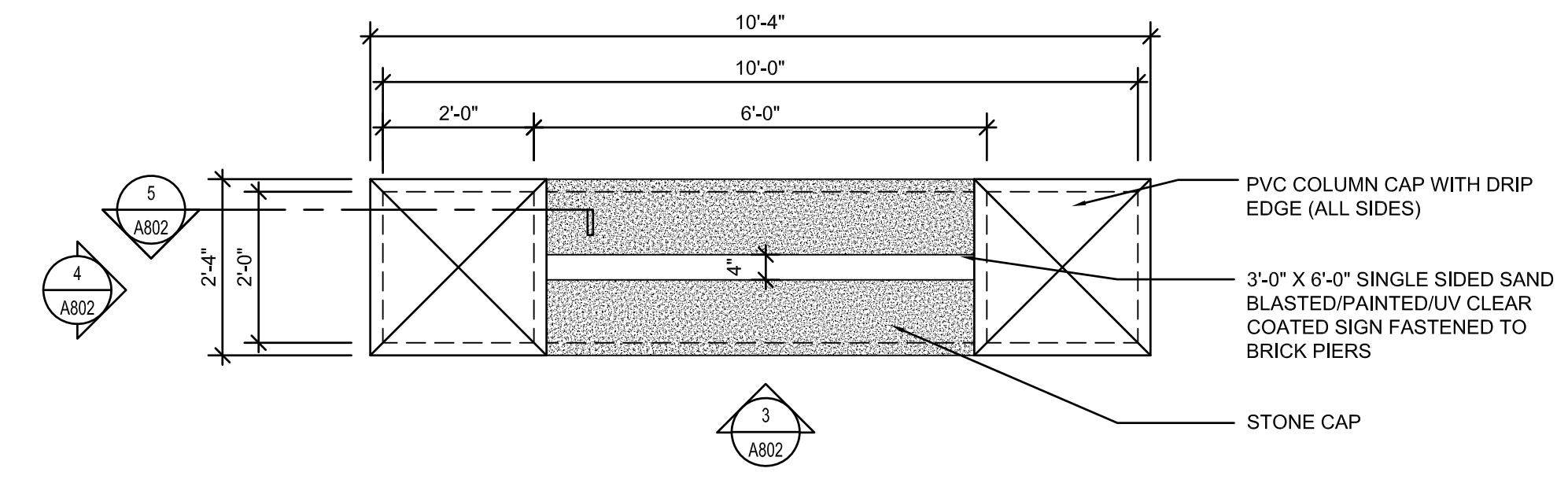
5
A803 PIER SECTION
SCALE 3/4" = 1'-0"



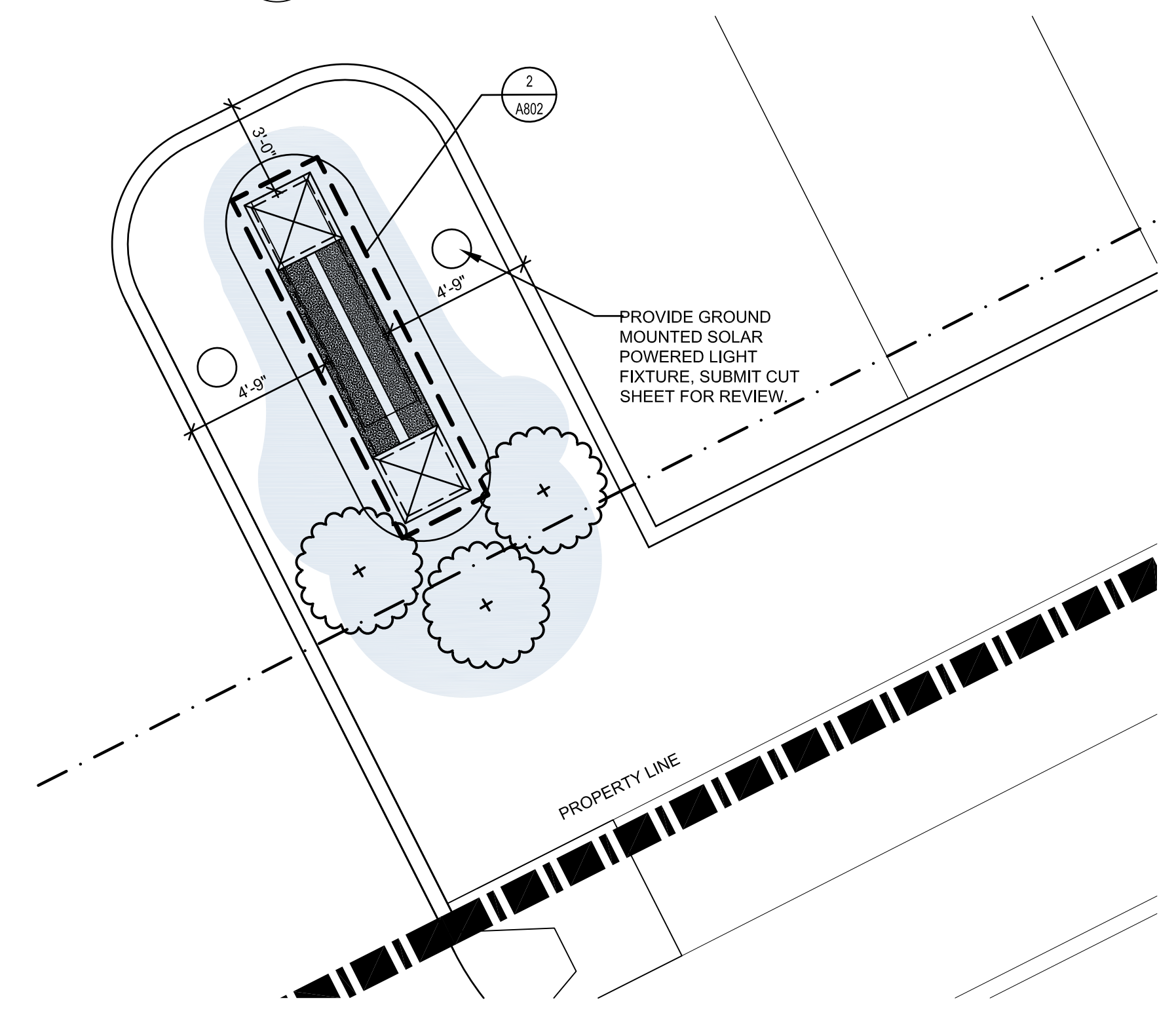
4
A803 GERMANTOWN CROSSING SIDE ELEVATION
SCALE 1/2" = 1'-0"



3
A803 GERMANTOWN CROSSING FRONT ELEVATION
SCALE 1/2" = 1'-0"



2
A803 GERMANTOWN CROSSING SIGN PLAN
SCALE 1/2" = 1'-0"



1
A803 GERMANTOWN CROSSING SITE PLAN
SCALE 1/4" = 1'-0"

MONUMENT SIGN
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TURNING VISIONS
INTO REALITY

03/31/2023
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A803
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GENERAL NOTES

A. GENERAL

- THIS STRUCTURE WAS DESIGNED IN ACCORDANCE WITH STATE OF OHIO BUILDING CODE (O.B.C.), 2017 EDITION.
- ALL CONSTRUCTION SHALL CONFORM TO THE OHIO BUILDING CODE AND TO OSHA STANDARDS. WORK STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE SITE.
- TEMPORARY BRACING OF THE STRUCTURE, TRUSSES, COLUMNS, BEAMS, WALLS, ETC. DURING CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. TEMPORARY BRACING OF THE STRUCTURE SHALL REMAIN IN PLACE UNTIL ALL LATERAL FORCE RESISTING ELEMENTS ARE INSTALLED (INCLUDING WALL AND ROOF SHEATHING). CONTRACTOR SHALL DESIGN AND COORDINATE LOCATIONS OF TEMPORARY BRACING WITH OTHER CONTRACTORS.
- FOUNDATION CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH MECHANICAL AND ELECTRICAL CONTRACTORS REGARDING ITEMS CONCEALED BY OR EMBEDDED IN FOUNDATIONS, WALLS OR FLOOR SLABS.
- SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
 - SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
 - SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFER, GROOVES, INSERTS, ETC.
 - SIZE AND LOCATION OF FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN.
 - FLOOR AND ROOF FINISHES.
 - STAIR FRAMING AND DETAILS, EXCEPT AS SHOWN.
 - DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
 - LIMITS OF DRAFT STOPPING IN THE ATTIC SPACE

DESIGN LOAD INFORMATION:

DEAD LOAD

1. FLOOR	= 25 PSF
2. ROOF	= 20 PSF

FLOOR LIVE LOAD

1. PUBLIC ROOMS AND CORRIDORS	= 100 PSF
2. DWELLING UNITS	= 40 PSF
3. STAIRS	= 100 PSF

ROOF LIVE LOADS

1. LIVE LOAD (ROOF TRUSSES)	= 20 PSF
2. LIVE LOAD (FLAT ROOF)	= 40 PSF

ROOF SNOW LOAD

1. GROUND SNOW LOAD (Pg)	= 20.00 PSF
2. FLAT ROOF SNOW LOAD (Pf)	= 20.00 PSF
3. SNOW EXPOSURE FACTOR (Ce)	= 0.9
4. SNOW LOAD IMPORTANCE FACTOR (I)	= 1.0
5. THERMAL FACTOR, Ct	= 1.0

WIND LOAD

1. ULTIMATE DESIGN WIND SPEED, Vuft (3 SECOND GUST)	= 115 MPH
2. NOMINAL DESIGN WIND SPEED, V ASD	= 90 MPH
3. WIND IMPORTANCE FACTOR (Iw) = 1.0, OCCUPANCY CATEGORY	= II
4. WIND EXPOSURE	= B
5. INTERNAL PRESSURE COEFFICIENT	= ±0.18
6. COMPONENTS AND CLADDING WIND DESIGN PRESSURES - SEE TABLES 2/S000	

EARTHQUAKE DESIGN DATA

1. SEISMIC USE GROUP	= II
2. SEISMIC IMPORTANCE FACTOR (IE)	= 1.00
3. MAPPED SPECTRAL RESPONSE ACCELERATIONS,	S _s =15.3%, S ₁ =7.2%
4. SITE CLASS	= D
5. SPECTRAL RESPONSE COEFFICIENTS,	S _{ds} =16.4%, S _{d1} =0.12
6. SEISMIC DESIGN CATEGORY	= B
7. BASIC SEISMIC-FORCE-RESISTING SYSTEM:	
- LIGHT FRAMED WALL w/WOOD STRUCTURAL SHEAR PANELS	
8. DESIGN BASE SHEAR	=43k
9. SEISMIC RESPONSE COEFFICIENT (Cs)	= 0.025
10. RESPONSE MODIFICATION FACTOR (R)	= 6.5
11. V = (S _{ds})(W)(IE)/R (SIMPLIFIED ANALYSIS PROCEDURE)	

B. FOUNDATIONS

- ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL WITH A BEARING CAPACITY OF 3000 PSF. FOOTINGS SHALL BE POURED THE SAME DAY THEY ARE EXCAVATED. FOOTINGS MAY BE POURED INTO EARTH-FORMED TRENCHES IF THE SOIL CONDITIONS PERMIT.
- COMPACT BACKFILL OVER FOOTINGS AND BENEATH SLABS ON GRADE TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM D-698 ±2.0% MOISTURE CONTENT. STRUCTURAL FILL UNDER FOOTINGS SHALL EXTEND OUTSIDE A FOOTING A MINIMUM OF ¼ THE DEPTH OF COMPACTION. ALL FILL SHALL BE TESTED FOR IN-PLACE DENSITY TO ASSURE THAT THE COMPACTION RECOMMENDATIONS ARE ATTAINED.
- FOR SITE PREPARATION, EARTHWORK CONSTRUCTION, AND FOUNDATION RECOMMENDATIONS, SEE THE SUBSURFACE EXPLORATION & FOUNDATION EVALUATION REPORT PREPARED BY CONSULTING SERVICES INCORPORATED, DATED SEPTEMBER 26, 2022. ALL GEOTECHNICAL WORK SHALL BE CONDUCTED IN COMPLIANCE WITH THE REQUIREMENTS FOUND IN THIS REPORT.
- FOOTING ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE AND SHALL BE FIELD ADJUSTED IF REQUIRED.
- A SOILS TESTING LABORATORY SHALL BE RETAINED BY THE OWNER TO PROVIDE CONSTRUCTION REVIEW TO INSURE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS DURING THE EXCAVATION, BACKFILL, AND FOUNDATION PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE SOILS TESTING LABORATORY TO: DETERMINE TOPSOIL AND EXCAVATION STRIPPING DEPTH; INSPECT ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, AND EXCAVATION OPERATIONS; APPROVE FILL MATERIALS, PERFORM DENSITY TESTS OF FILLS TO INSURE PLACEMENT PER SPECIFICATION REQUIREMENTS; INSPECT FOUNDATION BEARING SURFACES.

C. CONCRETE AND REINFORCING STEEL

- ALL CONCRETE SHALL CONFORM TO THE FOLLOWING REFERENCED STANDARDS:
 - ACI 318-14: BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE.
 - ACI 315: DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.
 - ACI 305: RECOMMENDED PRACTICES FOR HOT WEATHER CONCRETING.
 - ACI 306: RECOMMENDED PRACTICES FOR COLD WEATHER CONCRETING.
- ALL CAST-IN-PLACE INTERIOR SLAB CONCRETE AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED SHALL BE 3500 PSI (W/C RATIO = 0.55) AT 28 DAYS WITHOUT AIR ENTRAINMENT AND WITH THE APPROPRIATE CURE SEALER.
- CAST-IN-PLACE CONCRETE FOR SPREAD AND WALL FOOTINGS SHALL BE 3000 PSI (W/C RATIO = 0.50) AT 28 DAYS.
- ALL CAST-IN-PLACE EXTERIOR SLAB CONCRETE AND ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED SHALL BE 4000 PSI (W/C RATIO = 0.50) AT 28 DAYS WITH AIR ENTRAINMENT (6% ±1%).
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE-60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. ONLY FLAT SHEETS SHALL BE USED.
- ALL WELDED WIRE FABRIC SPLICES SHALL BE NOT LESS THAN (2) SPACINGS OF CROSS WIRES OR 6", WHICHEVER IS GREATER.
- CORNER BARS SHALL BE PROVIDED TO MATCH HORIZONTAL WALL AND FOOTING REINFORCEMENT AT ALL CORNERS. LAP BARS 30 BAR DIAMETERS OR A MINIMUM OF 1'-0".
- PROVIDE A 3/4"x45" CHAMFER ON ALL EXPOSED EDGES OF CONCRETE.
- A CURING COMPOUND IS TO BE APPLIED TO THE CONCRETE AFTER FINISHING.

MINIMUM LAP SPLICE (CLASS B)

(Fy = GRADE 60 NON-COATED BARS). SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS OR ON THE SHOP DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP SPLICE LENGTHS (IN INCHES) AS FOLLOWS.

3000 PSI CONCRETE			4000 PSI CONCRETE		
BAR SIZE	TYPICAL	TOP	BAR SIZE	TYPICAL	TOP
#3	22	28"	#3	19"	24"
#4	29"	37"	#4	25"	32"
#5	36"	47"	#5	31"	40"
#6	43"	56"	#6	37"	48"
#7	63"	81"	#7	54"	70"
#8	72"	93"	#8	62"	80"
			#9	70"	91"

- WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE LARGER BAR OR THE TENSION LAP SPLICE OF SMALLER BAR. USE WHICHEVER DIMENSION IS LARGER.
- LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE "TYPICAL DIMENSIONS" BY 1.3.
- TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION	CLEARANCE
(a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....	3"
(b) SLABS ON GRADE (WELDED WIRE FABRIC).....	¼ SLAB THICKNESS FROM TOP OF SLAB
(c) CONCRETE EXPOSED TO EARTH OR WEATHER	
-NO. 6 THRU NO. 18 BARS.....	2"
-NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER.....	1½"
(d) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS	
-NO. 14 & NO. 18 BARS.....	1½"
-NO. 11 BAR AND SMALLER.....	3"
BEAMS, COLUMNS	
-PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.....	1½"

D. MASONRY

- ALL DESIGN, MATERIALS, LABOR AND CONSTRUCTION OF THE MASONRY SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 5-13/TMS 402-13) AND THE SPECIFICATION FOR MASONRY STRUCTURES (ACI 530-13/ASCE 6-13/TMS 602-13).
- ALL HOLLOW CONCRETE BLOCK SHALL CONFORM TO ASTM C-90 WITH A NET COMPRESSIVE STRENGTH OF 2000 PSI.
- MORTAR SHALL BE ASTM C 270, TYPE "S", SPECIFIED BY PROPORTION WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI.
- AGGREGATE FOR MORTAR SHALL BE ASTM C 144. AGGREGATE FOR GROUT ASTM C404.
- ALL MASONRY GROUT SHALL CONFORM TO ASTM C 476, SPECIFIED BY PROPORTION, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 P.S.I. (¾" MAX. AGGREGATE SIZE).
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A-615 GRADE-60. WELDING OF REINFORCING STEEL SHALL CONFORM TO ANSIIAWS D1.4-11.
- CONTINUOUS WIRE JOINT REINFORCING SHALL BE GALVANIZED FABRICATED UNITS WITH 9 GAGE SIDE RODS AND 9 GAGE CROSS RODS FABRICATED FROM COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82. USE TRUSS TYPE AT NON-VERTICALLY REINFORCED WALLS AND LADDER TYPE AT VERTICALLY REINFORCED WALLS. PREFABRICATED CORNERS & TEES SHALL BE USED FOR ALL INTERSECTING WALLS.
- ALL INTERSECTING MASONRY WALLS AND PILASTERS SHALL BE IN RUNNING BOND WITH AT LEAST 50% OF THE MASONRY UNITS INTERLOCKING AT THE INTERFACE.
- LAY MASONRY UNITS WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. BED WEBS IN MORTAR IN STARTING COURSE ON FOOTING AND IN ALL COURSES OF COLUMN AND PILASTERS, AND WHERE ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT.

10. MISCELLANEOUS:

- CONSOLIDATE GROUT BY MECHANICAL VIBRATION AT TIME OF PLACEMENT AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER THE INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.
- MAX. GROUT POUR HEIGHT SHALL BE AS PER PAGE S-22 (TABLE 7) OF ACI 530-13/ASCE 5-13/TMS 402-13.
- CORRECT LOCATION OF THE VERTICAL REINFORCING STEEL MUST BE MAINTAINED BY THE USE OF VERTICAL BAR POSITIONERS PLACED AT THE TOP OF 1st COURSE AND COURSE BELOW TOP OF WALL W/ A MAXIMUM OF 6'-0" BETWEEN POSITIONERS.
- FILL CORE SOLID AROUND ANCHOR BOLTS, EMBEDDED STEEL AND REINFORCING.
- PROVIDE JOINT REINFORCING AT 16" EXCEPT AS NOTED. BOND BEAM REINFORCEMENT SHALL BE STOPPED EITHER SIDE OF VERTICAL CONTROL JOINTS.
- PROVIDE 100% SOLID BEARING, MINIMUM 3 COURSES (24") UNDER BEAMS AND WIDE FLANGE LINTELS, 1 COURSE (8") UNDER ANGLE LINTELS AND STEEL LINTELS UNLESS DETAILED OTHERWISE.
- LAP ALL SPLICES AS FOLLOWS:

#3 - 16"
#4 - 24"
#5 - 28"
#6 - 40"
#7 - 46"

- FOR BRICK OR MASONRY VENEERS, PLACE ANCHORS WITHIN 12" OF ALL OPENINGS. ANCHORS TO BE PLACED @ 24" o/c HORIZONTALLY AND 16" o/c VERTICALLY.
- EXPANSION JOINTS TO BE LOCATED AS PER ARCH. ELEVATIONS.

E. STRUCTURAL STEEL

- ALL DETAILS, DETAILING, CONNECTIONS, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - 360-10 (ASD).
- ALL W SHAPES SHALL CONFORM TO ASTM A-992 (Fy=50 KSI) SPECIFICATIONS. ALL OTHER STRUCTURAL STEEL SHAPES AND PLATE SHALL CONFORM TO MINIMUM ASTM A-36 SPECIFICATIONS.
- THE CONTRACTOR SHALL SUBMIT DETAILED, COORDINATED AND CHECKED SHOP DRAWINGS FOR ALL STRUCTURAL STEEL PRIOR TO FABRICATING STEEL. THE SHOP DRAWINGS SHALL BEAR THE STAMP OF THE CONTRACTOR SHOWING THAT THE SHOP DRAWINGS HAVE BEEN REVIEWED BY THEM.
- ALL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B, SPECIFICATIONS. HSS SECTIONS (HOLLOW STRUCTURAL SECTIONS) SHALL CONFORM TO ASTM A500, GRADE B SPECIFICATIONS.
- ALL BOLTS SHALL BE 3/4" UNLESS OTHERWISE NOTED (UNO) AND SHALL CONFORM TO A325N SPECIFICATIONS WITH THREADS IN SHEAR PLANE. ADDITIONALLY, ALL BOLTS SHALL BE TIGHTENED TO A 'SNUG-TIGHTENED CONDITION' AS PER RCSC SPECIFICATION 8.1 UNO.
- ANCHOR RODS SHALL CONFORM TO ASTM A36 OR ASTM-F1554 (GR.36) SPECIFICATIONS.
- GROUT UNDER ALL COLUMN BASE PLATES SHALL BE A NON-SHRINK, NON-METALLIC TYPE CONSISTING OF A PREMIXED PRODUCT COMPLYING OF ALL REQUIREMENTS OF ASTM C1107. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI WHEN TESTED IN CONFORMANCE WITH ASTM C109.
- WELDING SHALL CONFORM TO ASW D1.1 "STRUCTURAL WELDING CODE-STEEL", LATEST EDITION AND SHALL BE PERFORMED BY CERTIFIED WELDERS.
- ALL WELDING ELECTRODES SHALL BE E70XX.
- ALL NEW STEEL SHALL BE SHOP PRIMED WITH A FAST-CURING, LEAD AND CHROMATE-FREE, UNIVERSAL MODIFIED-ALKYD PRIMER COMPLYING WITH MPI#79. USE PRIMER CONTAINING PIGMENTS THAT MAKE IT EASILY DISTINGUISHABLE FROM ZINC-RICH PRIMER.

WALL COMPONENTS AND CLADDING (ULTIMATE) (PSF)									
EFFECTIVE AREA (SQ. FT.)									
INTERIOR ZONE					EXTERIOR ZONE (6' WIDE)				
10	20	50	100	500	10	20	50	100	500
26.8	25.6	24.2	23.1	18.7	33.1	30.8	27.9	25.6	23.1

F. WOOD FRAMING

- QUALITY AND CONSTRUCTION OF WOOD FRAMING MEMBERS AND THEIR FASTENERS FOR LOAD SUPPORTING PURPOSES NOT OTHERWISE INDICATED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE OHIO BUILDING CODE.
- ALL WOOD SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION, NDS (2015 EDITION) AND THE 2017 OHIO BUILDING CODE CHAPTER 23.
- TREATED BOTTOM PLATES WHERE THERE IS CONTACT WITH MASONRY.
- JOISTS, RAFTERS, STUDS & HEADERS-(SPF, NO.1/NO.2, DOUGLAS FIR OR SOUTHERN PINE), DESIGN VALUES SHALL EQUAL OR EXCEED THE FOLLOWING:
 - Fb: 875 P.S.I.
 - Fv: 135 P.S.I.
 - E: 1,400,000 P.S.I.
- NAILING OF ALL FRAMING MEMBERS SHALL MEET THE RECOMMENDED NAILING SCHEDULE (TABLE 2304.10-1) CONTAINED IN THE OBC, CHAPTER 23.
- ERECTION PLANS FOR ALL TRUSSES SHALL BE SUBMITTED FOR REVIEW WITH SHOP DRAWINGS PRIOR TO FABRICATION. ERECTION PLANS SHALL INCLUDE HOW AND WHERE THE PERMANENT BRIDGING WILL BE INSTALLED. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER OF OHIO REGISTRATION. TEMPORARY AND PERMANENT BRIDGING AND BRACING OF WOOD ROOF AND FLOOR TRUSSES SHALL BE IN ACCORDANCE WITH THE TRUSS INSTITUTE, INC. TEMPORARY BRIDGING SHALL BE FURNISHED AS REQUIRED TO MAINTAIN TRUSS STABILITY, SPACING AND TO PREVENT BUCKLING DURING ERECTION. LIVE LOAD DEFLECTION FOR FLOOR TRUSSES IS LIMITED TO L/480 AND TOTAL LOAD DEFLECTION L/360.
- PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE'S NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION (ANSI/TPI LATEST EDITION). TRUSSES SHALL BE DESIGNED AND MANUFACTURED BY AN AUTHORIZED MEMBER OF THE WOOD TRUSS COUNCIL OF AMERICA (WTCA). TRUSS DESIGN SHALL CONFORM TO SPECIFIED CODES, ALLOWABLE STRESS INCREASES, DEFLECTION LIMITATIONS, AND OTHER APPLICABLE CRITERIA OF THE GOVERNING CODE.
- CONNECT ROOF TRUSSES TO TOP PLATE WITH A SIMPSON "HI" TIE UNLESS NOTED OTHERWISE.
- LAMINATED VENEERED LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL); DESIGN VALUES SHALL EQUAL OR EXCEED THE FOLLOWING:
 - Fb: 2600 P.S.I. BENDING
 - Fv: 285 P.S.I. HORIZONTAL SHEAR
 - Fc: 2510 P.S.I. IN. COMPRESSION PARALLEL TO GRAIN
 - E: 2,000,000 P.S.I.
- MULTIPLE MEMBER CONNECTIONS FOR LVL'S SHALL BE AS PER THE MANUFACTURER'S SPECIFICATIONS. MULTIPLE PLYS OF SAWN LUMBER SHALL BE CONNECTED WITH STRUCTURAL ADHESIVE & (2) ROWS OF 16d NAILS @ 6" o/c.
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED UNLESS SPECIFICALLY SHOWN, NOTED OR APPROVED. PROVIDE A MINIMUM OF (1) JACK AND (1) KING STUD, UNLESS NOTED OTHERWISE, AT SIDES OF ALL OPENINGS, WINDOWS, AND DOORS. PROVIDE A MINIMUM OF (2) JACK STUDS BENEATH ALL WOOD BEAMS, GIRDER TRUSSES, AND HEADERS UNLESS NOTED OTHERWISE ON PLANS. DOUBLE STUDS BENEATH WOOD BEAMS, GIRDER TRUSSES, AND HEADER SHALL BE CARRIED THROUGH TO THE TOP OF FOOTINGS OR MASONRY FOUNDATION WALLS.
- SHEATHING:
 - 40/20 APA RATED 5/8" ROOF SHEATHING EXPOSURE 1.
 - 48/24 APA RATED 3/4" FLOOR SHEATHING EXPOSURE 1.

- ALL SHEATHING TO BE APPLIED WITH 8d COMMON NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PROVIDE SOLID BLOCKING TO MATCH WALL STUD SIZE AT ALL FREE EDGES OF WALL SHEATHING AND NAIL w/ 8d COMMON NAILS AT 6" O.C.
- BOLTS HOLES SHALL BE 1/8" MAXIMUM LARGER THAN THE BOLT SIZE. RE-TIGHTEN ALL NUTS PRIOR TO CLOSING IN.
- 2x2x3/8" PLATE WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD.
- SERVICE CONDITION - DRY WITH MOISTURE CONTENT AT OR BELOW 19% IN SERVICE.
- CONTRACTOR SHALL COORDINATE TRUSS LAYOUT FOR OPENINGS AND PENETRATIONS REQUIRED BY OTHER TRADES INCLUDING FOR PLUMBING, HVAC, ELECTRICAL, ROOF ACCESS HATCHS, CHASES, ETC.
- DRYWALL CLIPS OR 2X LADDER BLOCKING AT 24" O/C SHALL BE USED AT CORNER FRAMING AND INTERIOR WALL INTERSECTIONS.

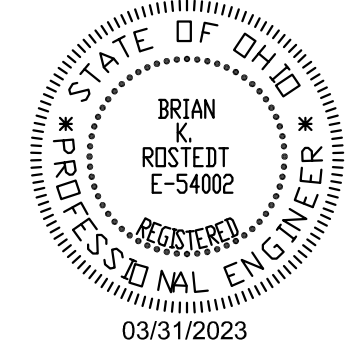
G. SUBMITTALS

- THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS:
 - REINFORCING STEEL
 - STRUCTURAL STEEL (#)
 - STAIR RAILS(*)
 - FLOOR TRUSSES (^,*)
 - ROOF TRUSSES (^,*)
 - CONCRETE DESIGN MIXES

ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWINGS STAMP. ITEMS MARKED (^) SHALL HAVE CALCULATIONS PREPARED BY A REGISTERED ENGINEER.

- ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
- CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES (E.G. PDFS) OF ALL SHOP DRAWINGS SPECIFIED TO BE RETURNED BY THE ENGINEER.
- THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE CONTRACT DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
- THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATE HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREIN.
- GUARDRAILS SHALL WITHSTAND THE FOLLOWING LOADING:
 - TOP RAIL UNIFORM LOAD: 50 PLF APPLIED IN ANY DIRECTION
 - TOP RAIL CONCENTRATED: 200 LB APPLIED IN ANY DIRECTION
 - INTERMEDIATE RAILS: 50 LB APPLIED HORIZONTALLY
 - LOADS DO NOT ACT CONCURRENTLY.

ROOF UPLIFT - COMPONENTS AND CLADDING (ULTIMATE) (PSF)						
ZONE	EFFECTIVE AREA (SQ. FT.)					
	GROSS			NET (ROOF JOISTS)		
	10	50	500	10	100	500
CORNER (6.2'x6.2')	58.8	50.0	46.2	43.8	35.0	31.2
PERIMETER (6.2' WIDE)	39.8	32.5	29.2	24.8	17.5	14.2
INTERIOR	22.9	21.5	20.8	7.9	6.5	5.8



REVISIONS

▲ BULLETIN 1 07/17/2023

GENERAL NOTES

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TURNING VISIONS
INTO REALITY

03/31/2023

DATE

82A21

PROJECT NUMBER

S000

DRAWING NUMBER

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.	-	-	-		

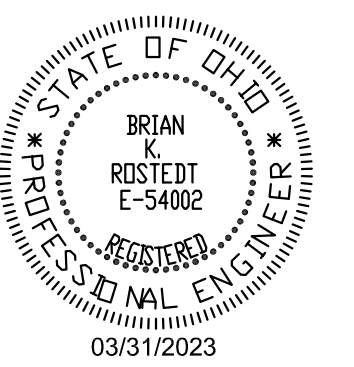
INSPECTION OF FABRICATORS SHOP AND IMPLEMENTATION PROCEDURES 1704.2

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_{AAC} 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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TURNING VISIONS
INTO REALITY

03/31/2023

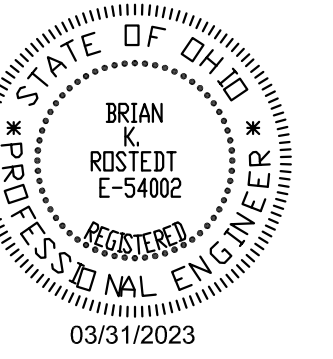
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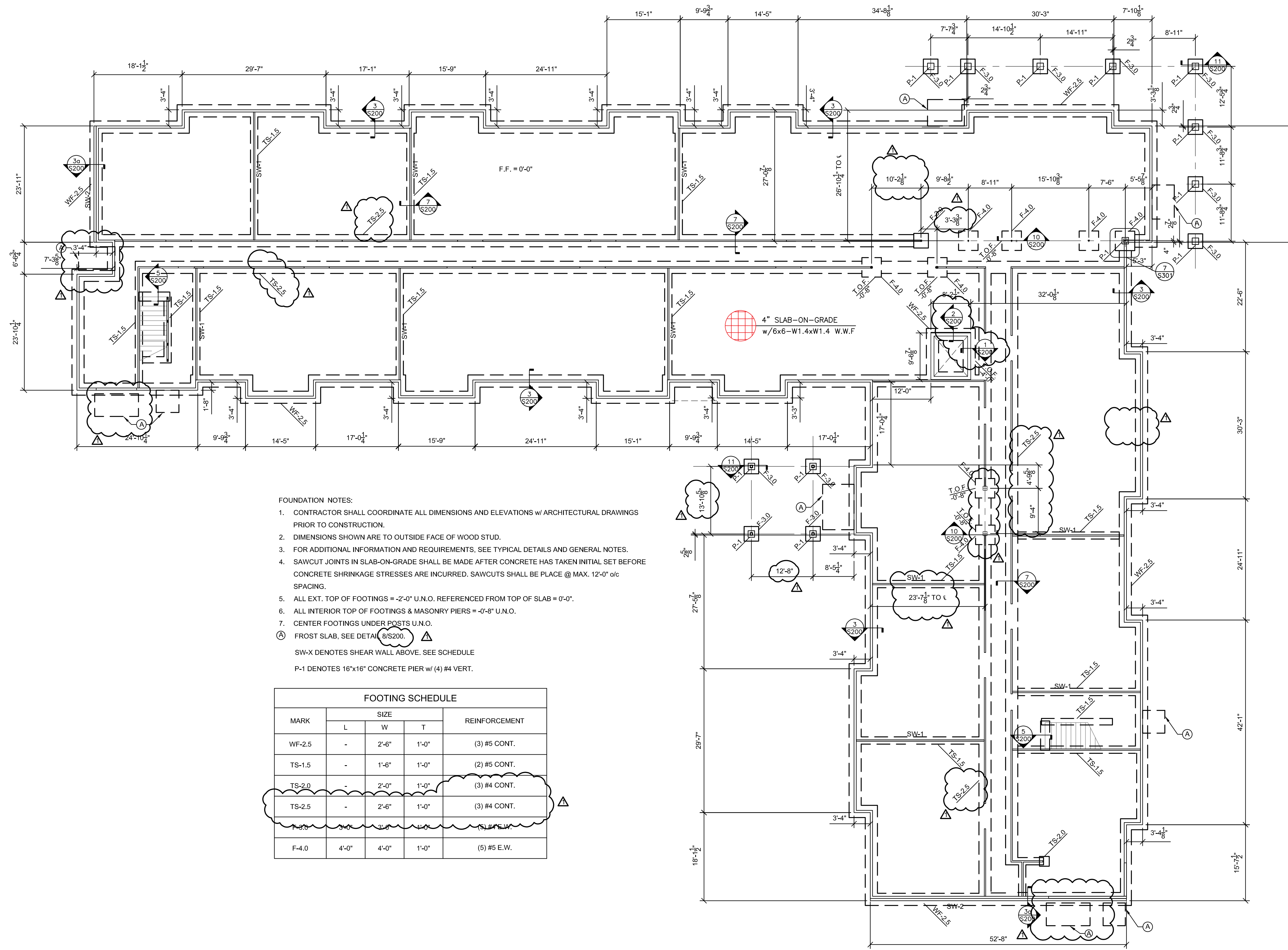
PROJECT NUMBER

S001

DRAWING NUMBER



REVISIONS
 ▲ BULLETIN 1 07/17/2023



- FOUNDATION NOTES:
- CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS w/ ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
 - DIMENSIONS SHOWN ARE TO OUTSIDE FACE OF WOOD STUD.
 - FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE TYPICAL DETAILS AND GENERAL NOTES.
 - SAWCUT JOINTS IN SLAB-ON-GRADE SHALL BE MADE AFTER CONCRETE HAS TAKEN INITIAL SET BEFORE CONCRETE SHRINKAGE STRESSES ARE INCURRED. SAWCUTS SHALL BE PLACED @ MAX. 12'-0" o/c SPACING.
 - ALL EXT. TOP OF FOOTINGS = -2'-0" U.N.O. REFERENCED FROM TOP OF SLAB = 0'-0".
 - ALL INTERIOR TOP OF FOOTINGS & MASONRY PIERS = -0'-8" U.N.O.
 - CENTER FOOTINGS UNDER POSTS U.N.O.
 - FROST SLAB, SEE DETAIL 8/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"	1'-0"	(3) #4 CONT.
TS-2.5	-	2'-6"	1'-0"	(3) #4 CONT.
F-4.0	4'-0"	4'-0"	1'-0"	(5) #5 E.W.

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

FOUNDATION PLAN
 GERMANTOWN CROSSING
 DAYTON OHIO



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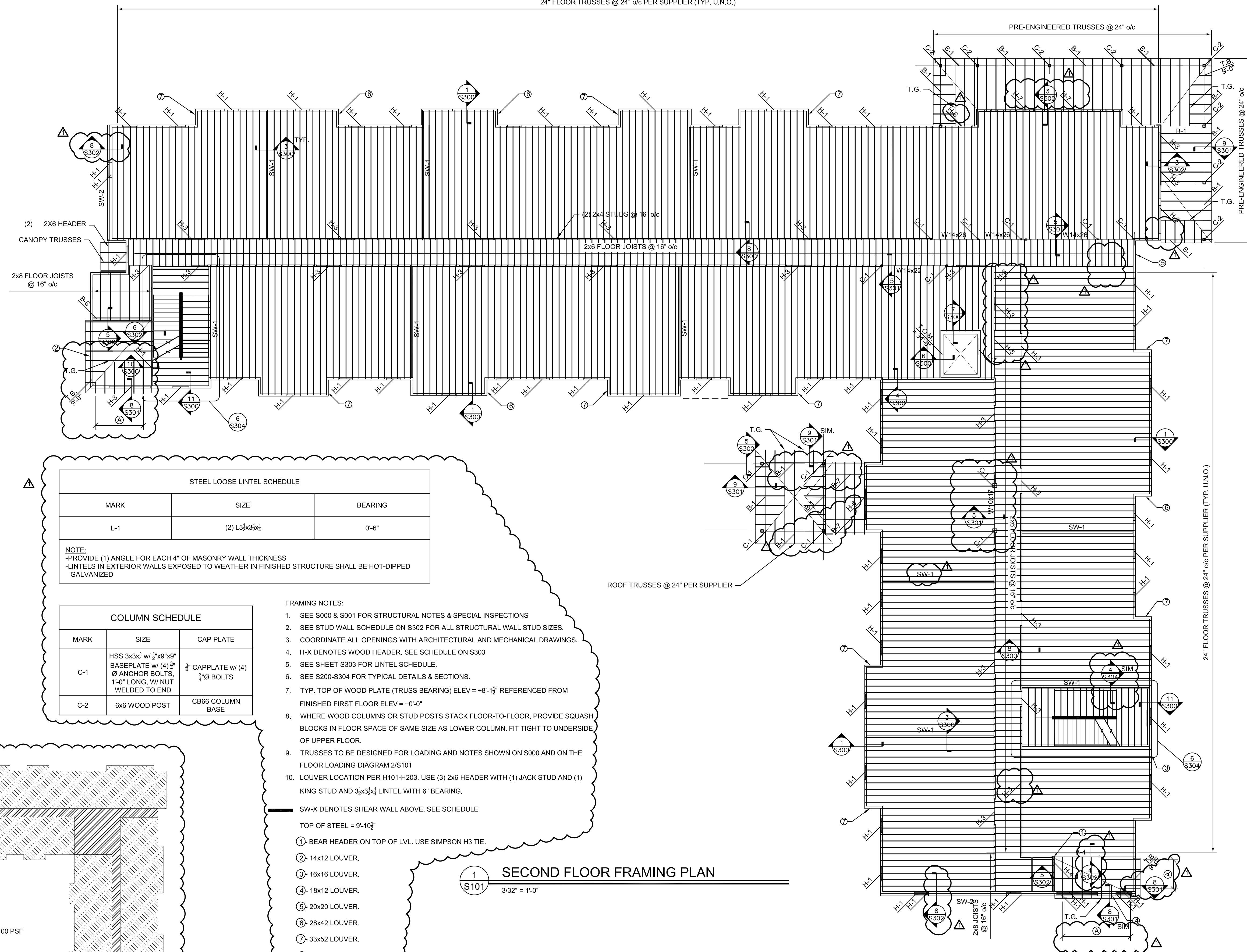
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 INTO REALITY

03/31/2023
 DATE

82A21
 PROJECT NUMBER

S100
 DRAWING NUMBER

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



STEEL LOOSE LINTEL SCHEDULE		
MARK	SIZE	BEARING
L-1	(2) L $3\frac{1}{2}$ x $3\frac{1}{2}$	0'-6"

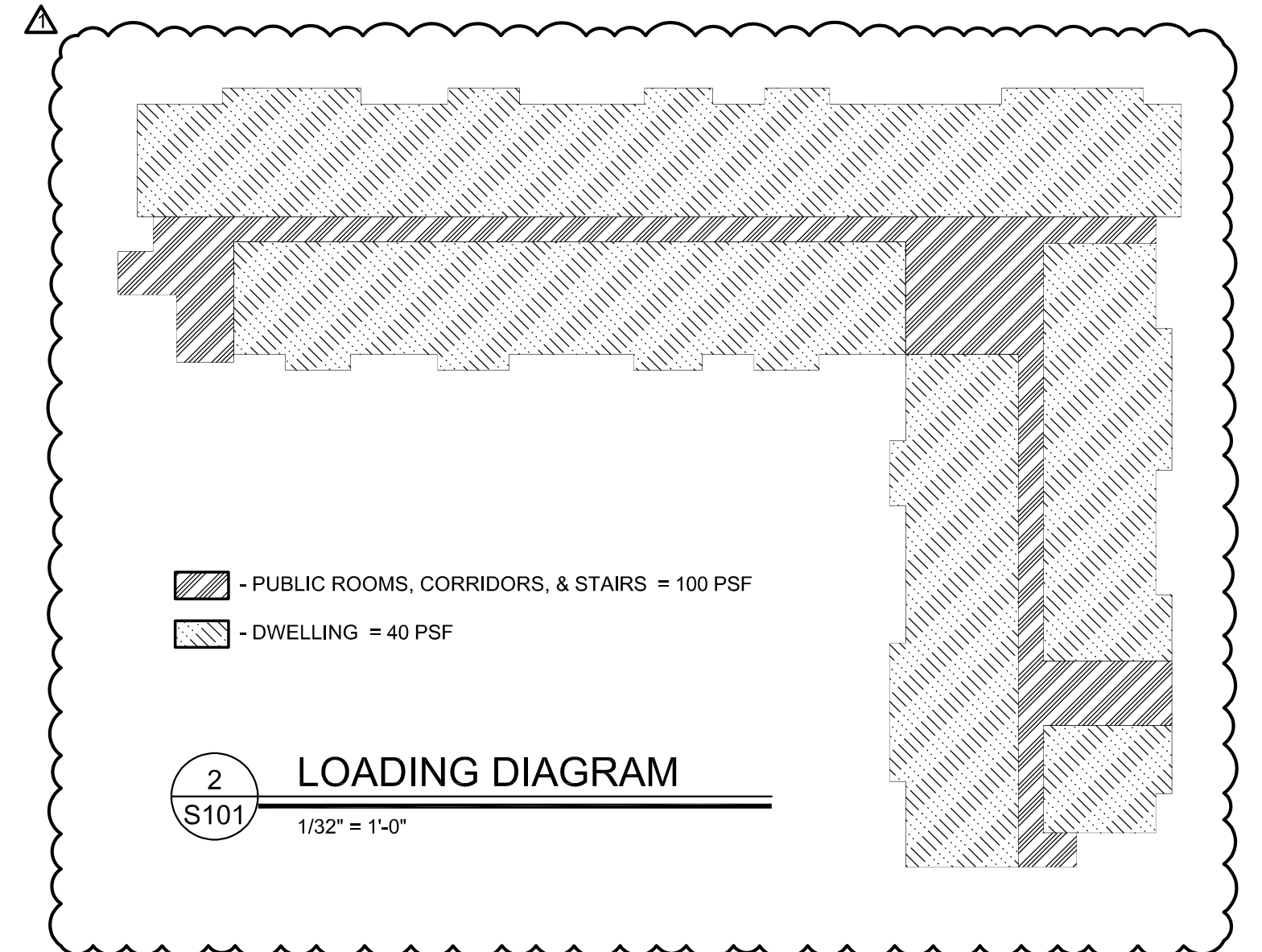
NOTE:
 -PROVIDE (1) ANGLE FOR EACH 4" OF MASONRY WALL THICKNESS
 -LINTELS IN EXTERIOR WALLS EXPOSED TO WEATHER IN FINISHED STRUCTURE SHALL BE HOT-DIPPED GALVANIZED

COLUMN SCHEDULE		
MARK	SIZE	CAP PLATE
C-1	HSS 3x3x $\frac{1}{4}$ w/ $\frac{1}{2}$ "x9"x9" BASE PLATE w/ (4) $\frac{3}{4}$ " \emptyset ANCHOR BOLTS, 1'-0" LONG, W/ NUT WELDED TO END	$\frac{3}{4}$ " CAPPLATE w/ (4) $\frac{3}{4}$ " \emptyset BOLTS
C-2	6x6 WOOD POST	CB66 COLUMN BASE

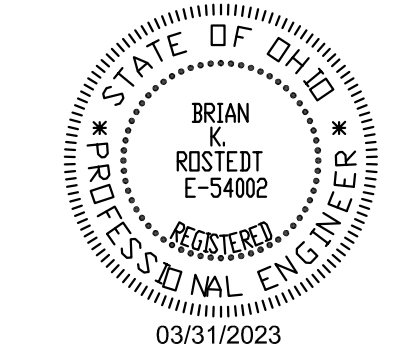
- FRAMING NOTES:**
- SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
 - SEE STUD WALL SCHEDULE ON S302 FOR ALL STRUCTURAL WALL STUD SIZES.
 - COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
 - SEE SHEET S303 FOR LINTEL SCHEDULE.
 - SEE S200-S304 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 $3\frac{1}{2}$ x $3\frac{1}{2}$ 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.
 - Ⓐ ROOF TRUSSES @ 24" o/c

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



2 LOADING DIAGRAM
 1/32" = 1'-0"



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2ND FLOOR FRAMING PLAN
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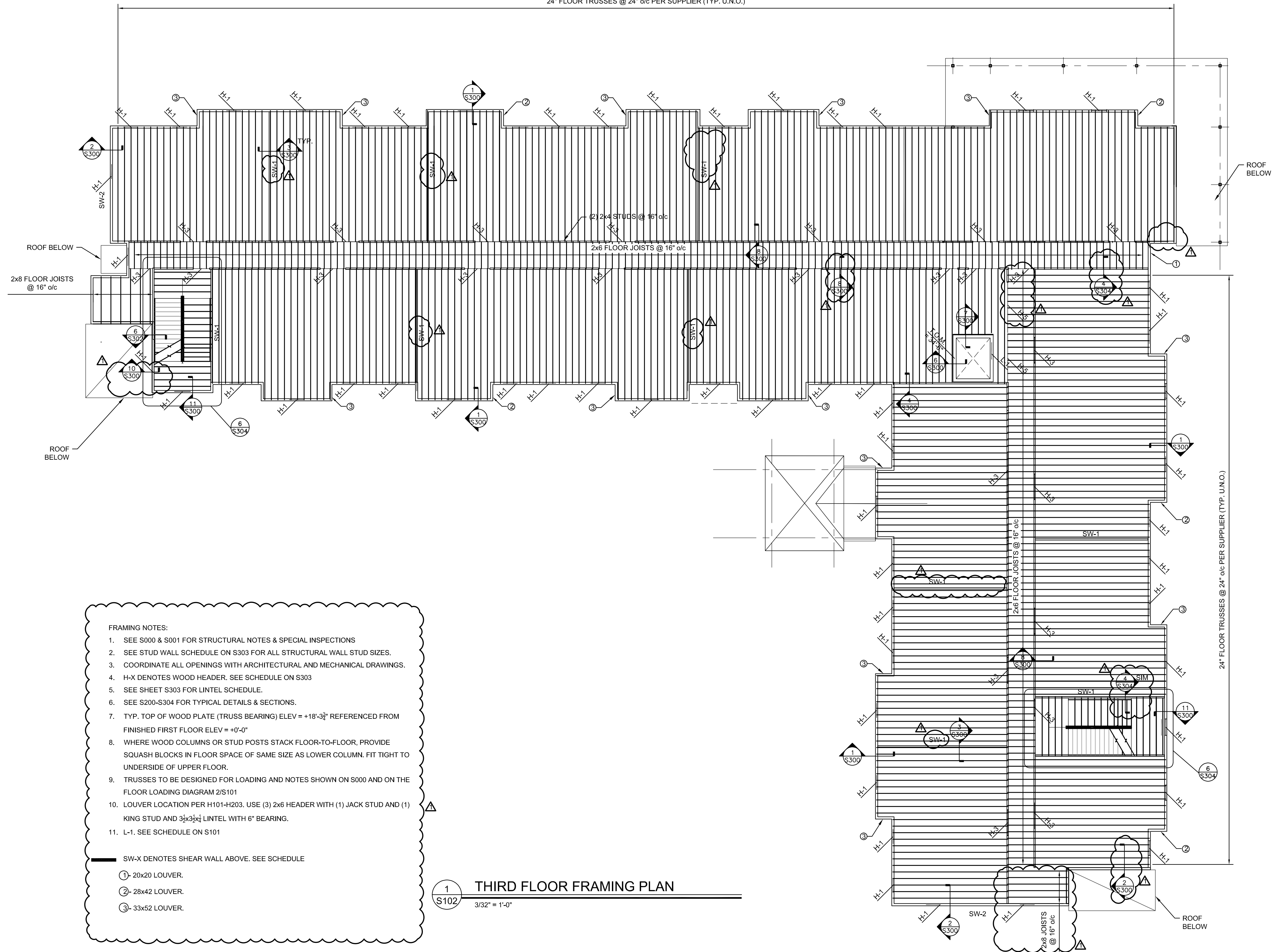
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03/31/2023
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S101
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24" FLOOR TRUSSES @ 24" o/c PER SUPPLIER (TYP. U.N.O.)



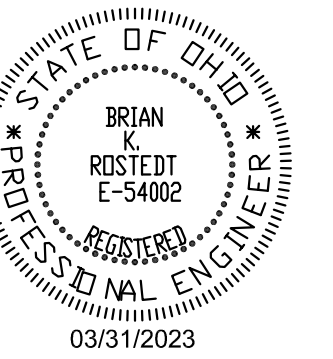
FRAMING NOTES:

1. SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
2. SEE STUD WALL SCHEDULE ON S303 FOR ALL STRUCTURAL WALL STUD SIZES.
3. COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
4. H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
5. SEE SHEET S303 FOR LINTEL SCHEDULE.
6. SEE S200-S304 FOR TYPICAL DETAILS & SECTIONS.
7. TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +18'-3 3/4" REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
8. 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.
9. TRUSSES TO BE DESIGNED FOR LOADING AND NOTES SHOWN ON S000 AND ON THE FLOOR LOADING DIAGRAM 2/S101
10. 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.
11. L-1. SEE SCHEDULE ON S101

SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE

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

1
S102
3/32" = 1'-0"



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3RD FLOOR FRAMING PLAN
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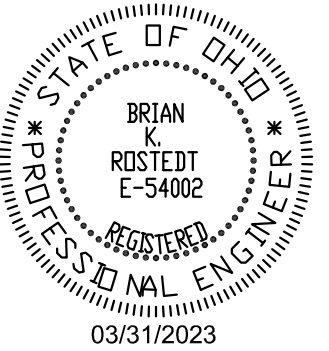
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PROJECT NUMBER

S102

DRAWING NUMBER



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ROOF FRAMING PLAN
GERMANTOWN CROSSING
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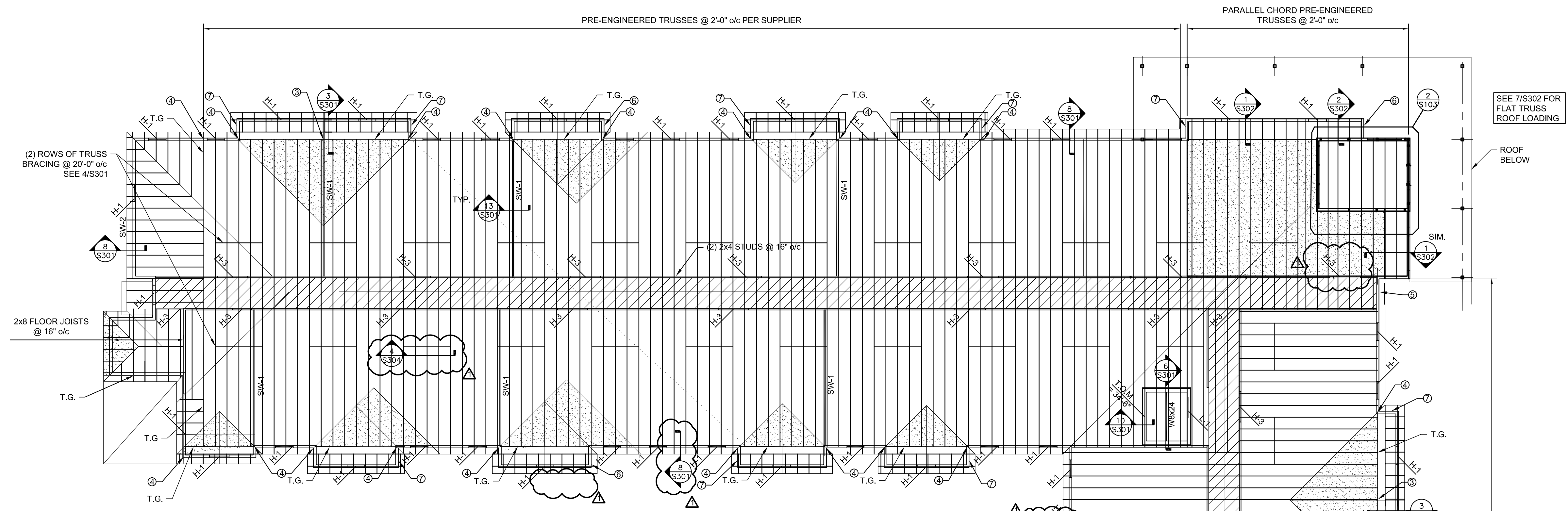


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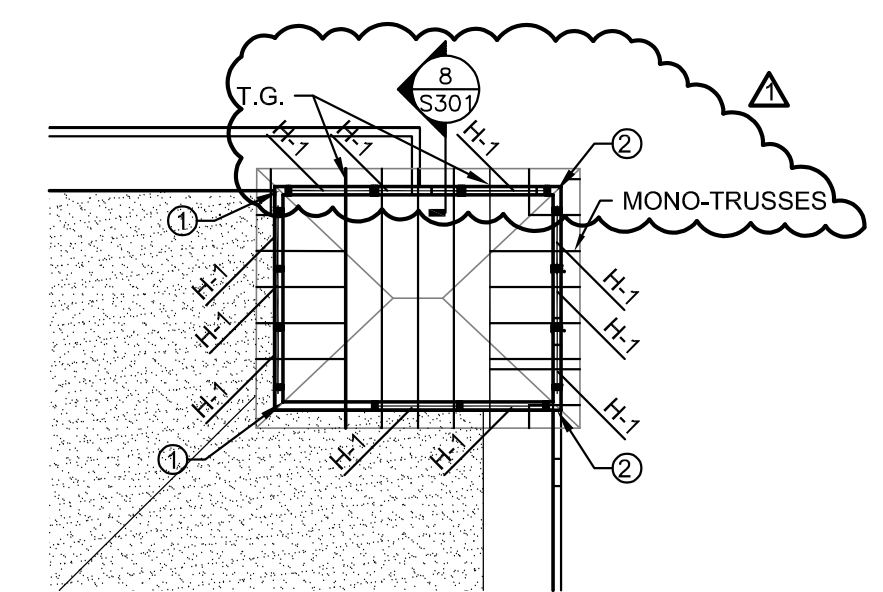
**TURNING VISIONS
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S103
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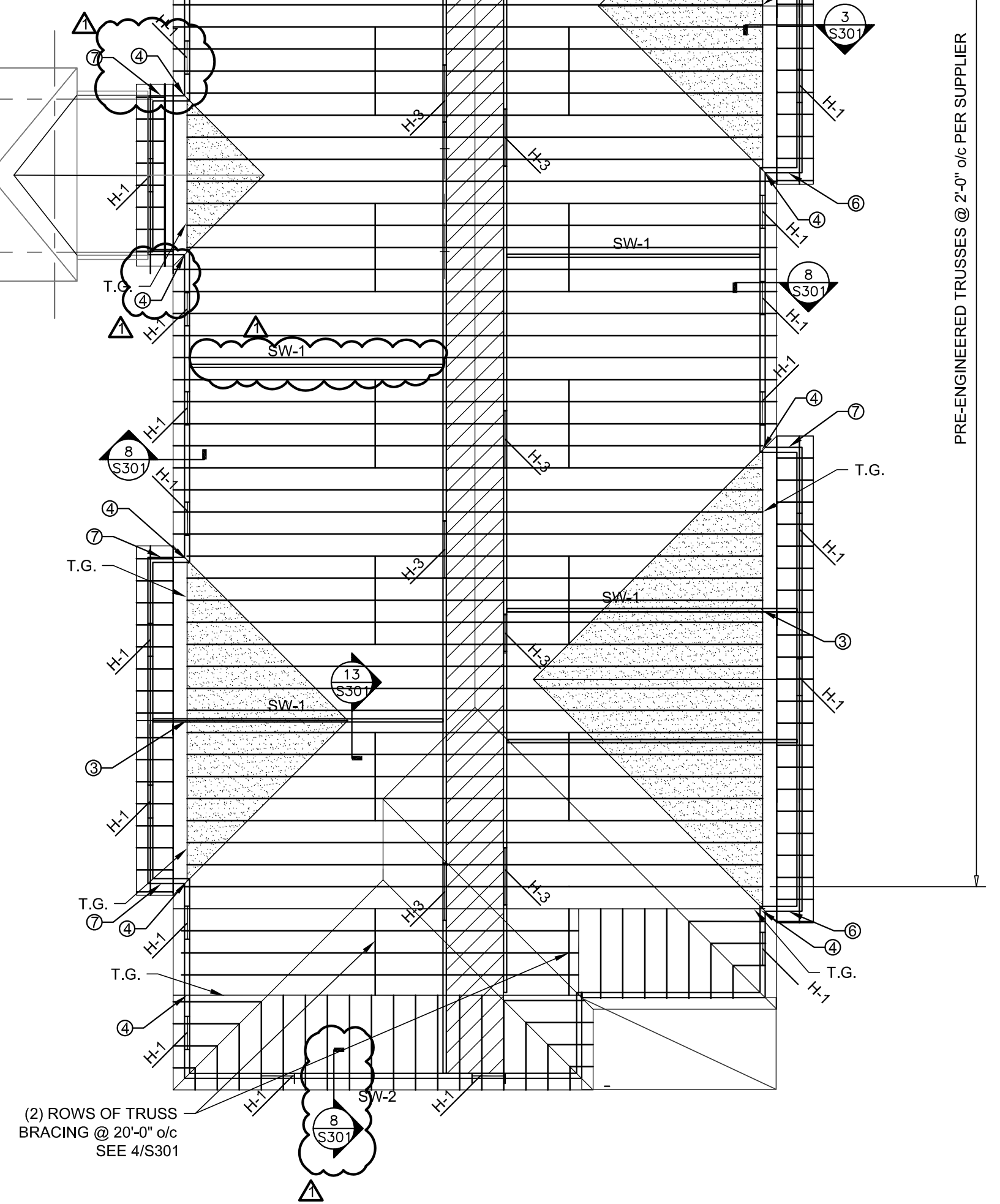


1
S103
 3/32" = 1'-0"



2
S103
 3/32" = 1'-0"

- FRAMING NOTES:**
- SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
 - SEE STUD WALL SCHEDULE ON S303 FOR ALL STRUCTURAL WALL STUD SIZES.
 - COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
 - SEE SHEET S303 FOR LINTEL SCHEDULE .
 - SEE S200-S303 FOR TYPICAL DETAILS & SECTIONS.
 - TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +28'-6" REFERENCED FROM FINISHED FIRST FLOOR ELEV = +0'-0"
 - WHERE WOOD POSTS 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.
 - PROVIDE SIMPSON H1 TIE ON ALL TRUSSES TO PREVENT WIND UPLIFT.
 - SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS AND SLOPES
 - LOUVER LOCATION PER H101-H203. USE (3) 2x6 HEADER WITH (1) JACK STUD AND (1) KING STUD AND 3/4x3/4 LINTEL WITH 6" BEARING.
 - L-1. SEE SCHEDULE ON S101
- SW-X - DENOTES SHEAR WALL BELOW. SEE SCHEDULE
- DENOTES OVERFRAMING USING "VALLEY" TRUSSES
- DENOTES ROOF ATTIC ACCESS WALKWAY. SEE ARCH DWGS. DESIGN BOTTOM CHORD FOR 20 PSF LIVE LOAD
- T.G. - DENOTES TRUSS GIRDER.
- PROVIDE SIMPSON HDU2-SDS2.5 TO TOP CHORD OF TRUSS BELOW.
 - PROVIDE SIMPSON MSTC40 STRAP TIE TO FASTEN END STUD TO FRAMING BELOW
 - (2) JACK STUDS w/ LGT3-SDS2.5 TIEDOWN & SIMPSON MSTC40 STRAP TO STUDS BELOW
 - (2) JACK STUDS w/ SIMPSON H2.5T TIES
 - 18x18 LOUVER.
 - 28x42 LOUVER.
 - 33x52 LOUVER.



(2) ROWS OF TRUSS BRACING @ 20'-0" o/c SEE 4/S301

SEE 7/S302 FOR FLAT TRUSS ROOF LOADING

PRE-ENGINEERED TRUSSES @ 2'-0" o/c PER SUPPLIER

ROOF BELOW

ROOF BELOW

PRE-ENGINEERED TRUSSES @ 2'-0" o/c PER SUPPLIER

PARALLEL CHORD PRE-ENGINEERED TRUSSES @ 2'-0" o/c

(2) ROWS OF TRUSS BRACING @ 20'-0" o/c SEE 4/S301

2x8 FLOOR JOISTS @ 16" o/c

(2) 2x4 STUDS @ 16" o/c

SIM.

1 S302

2 S302

3 S301

4 S301

5 S301

6 S301

7 S301

8 S301

9 S301

10 S301

11 S301

12 S301

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14 S301

15 S301

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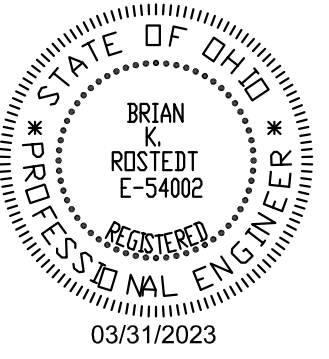
96 S301

97 S301

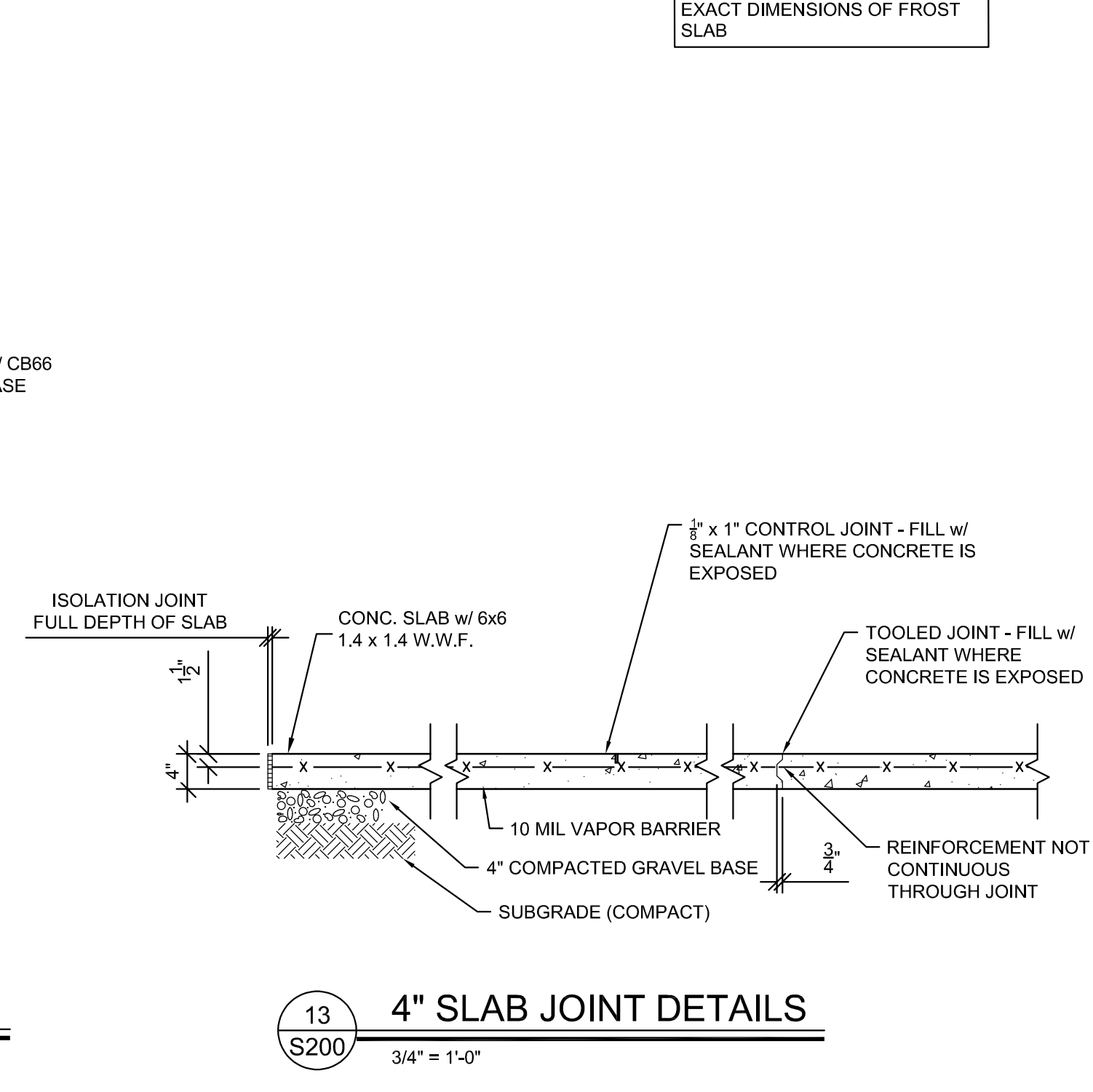
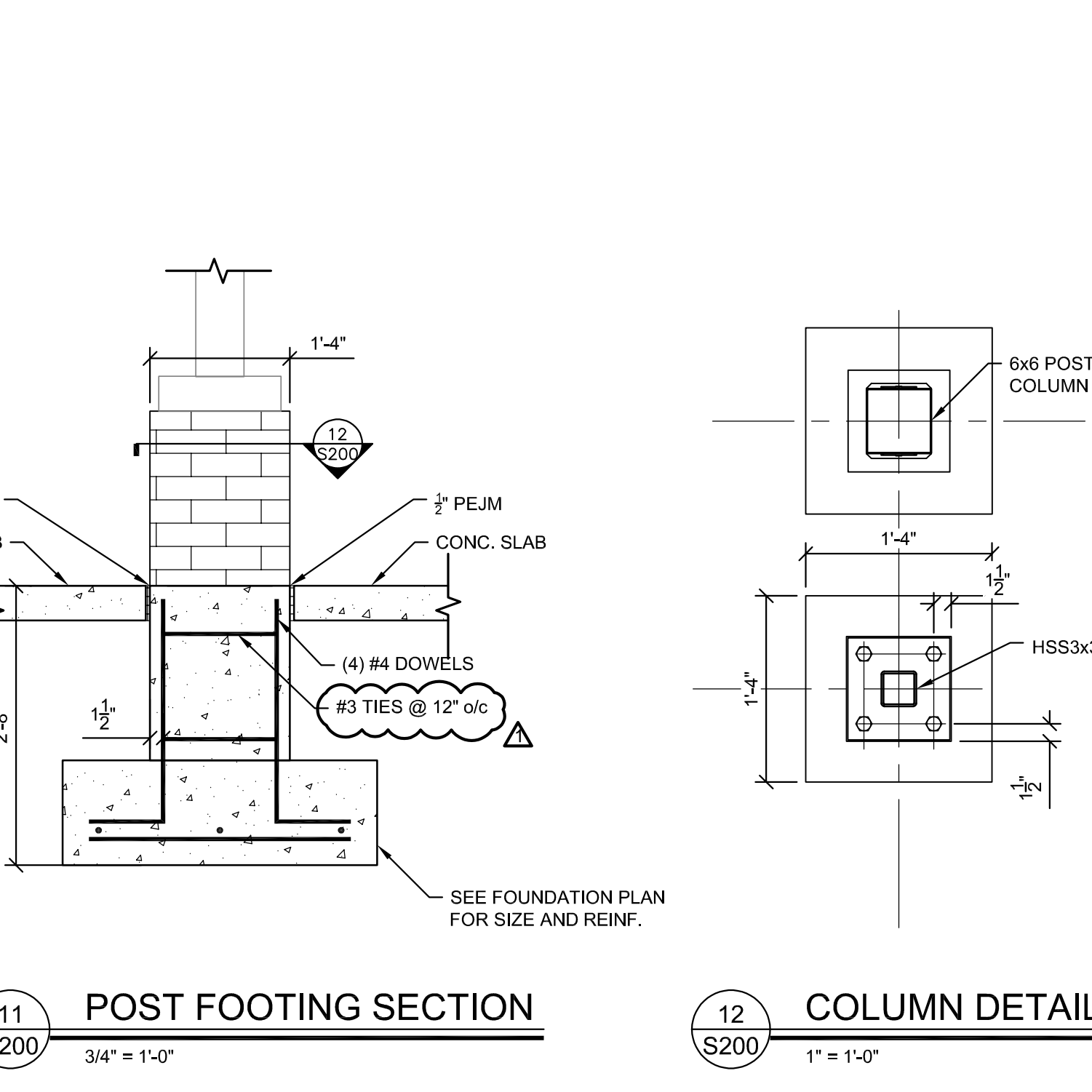
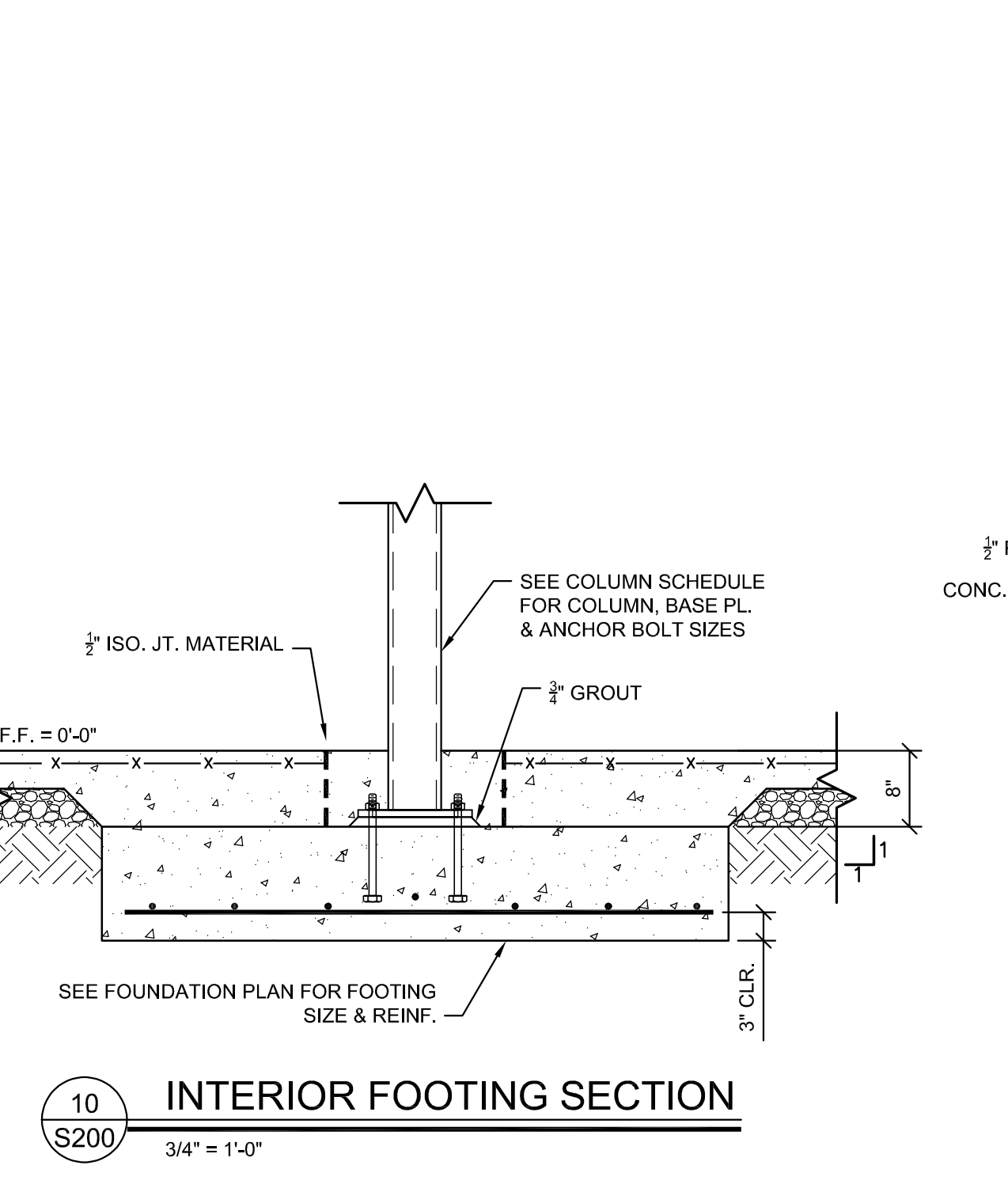
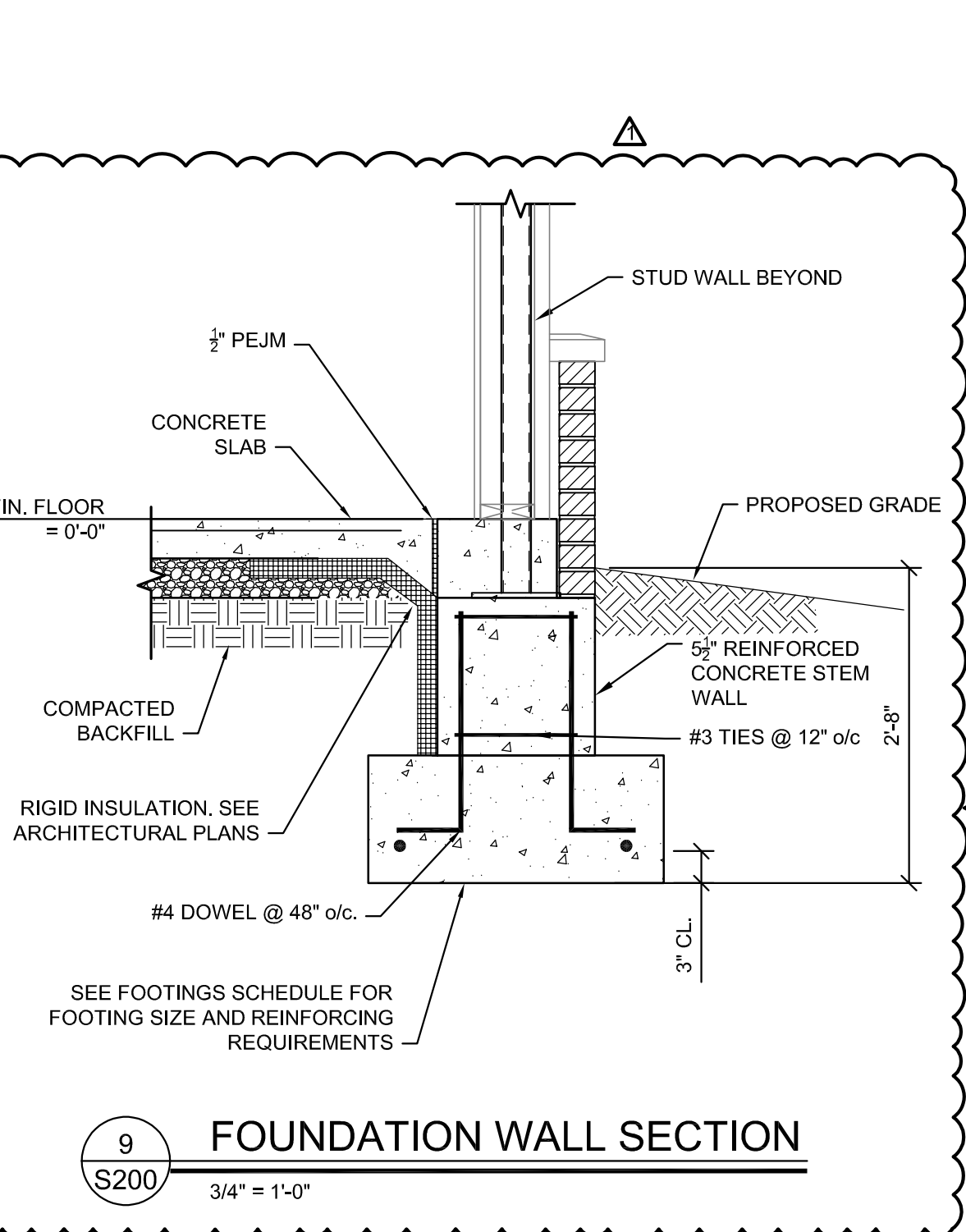
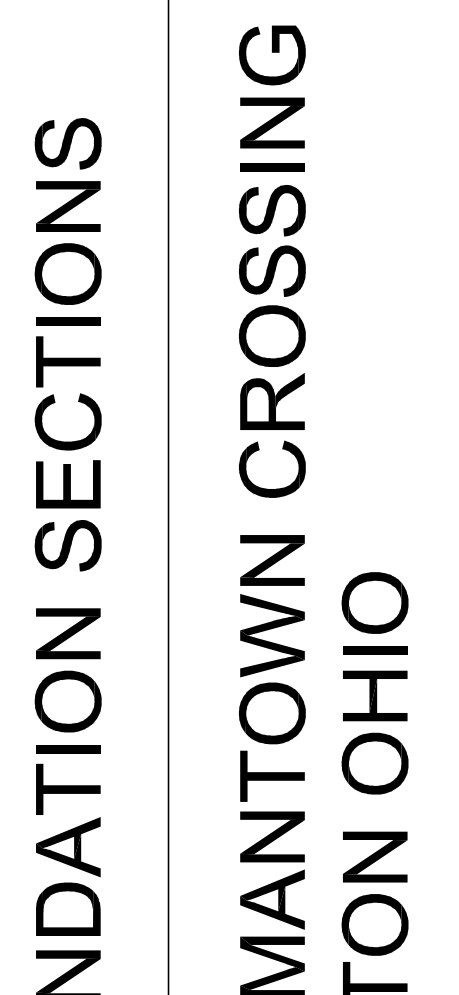
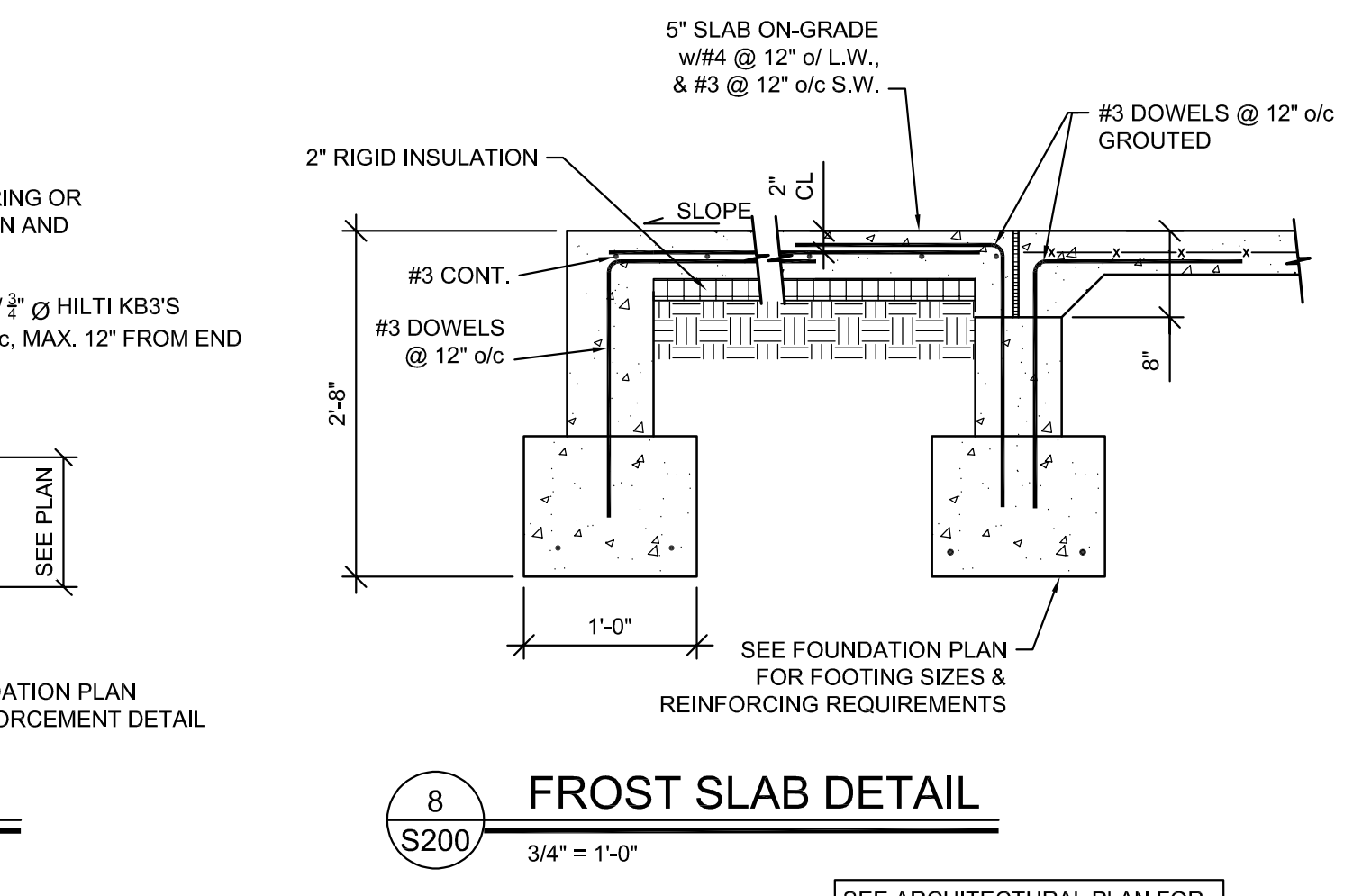
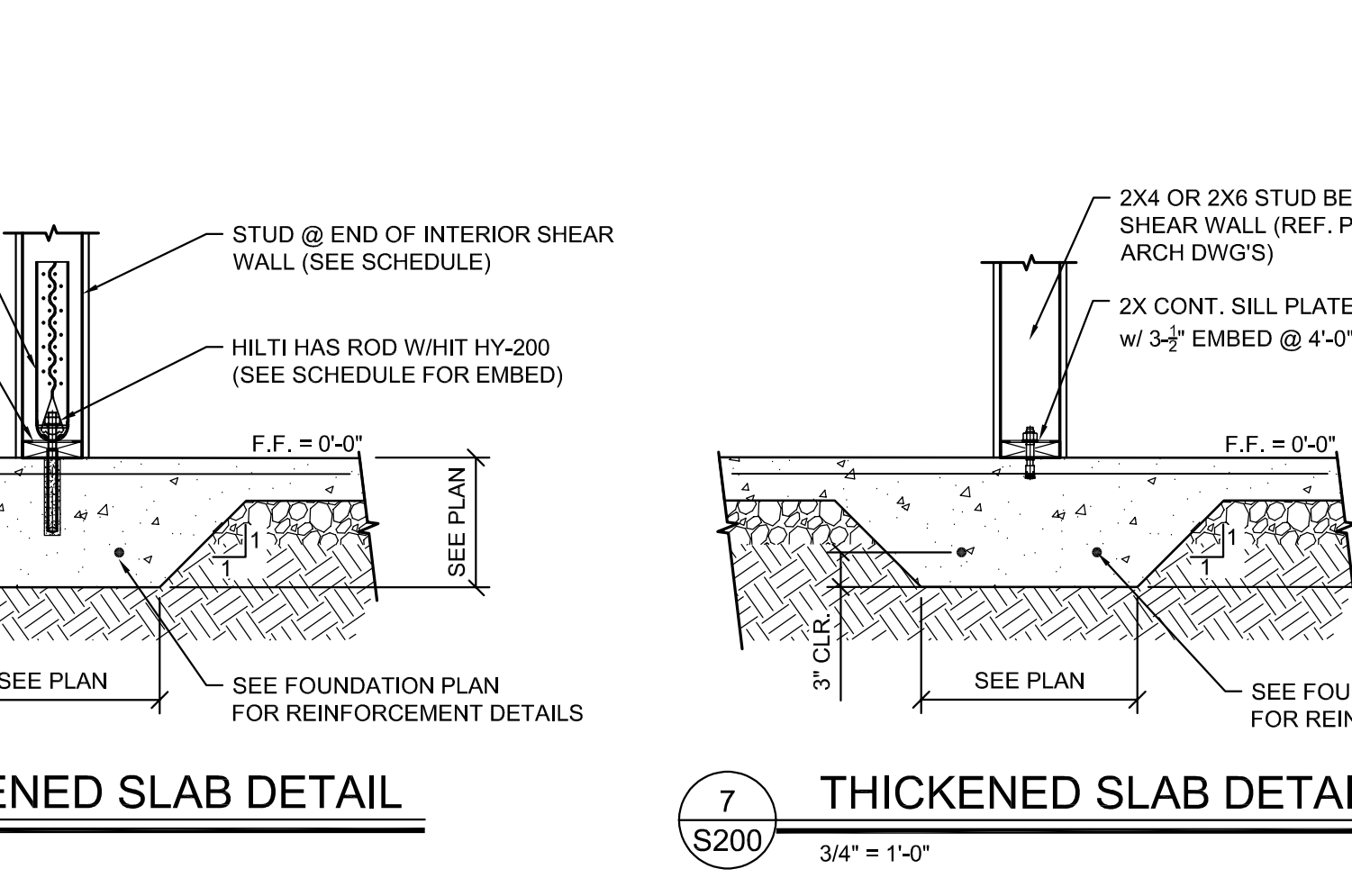
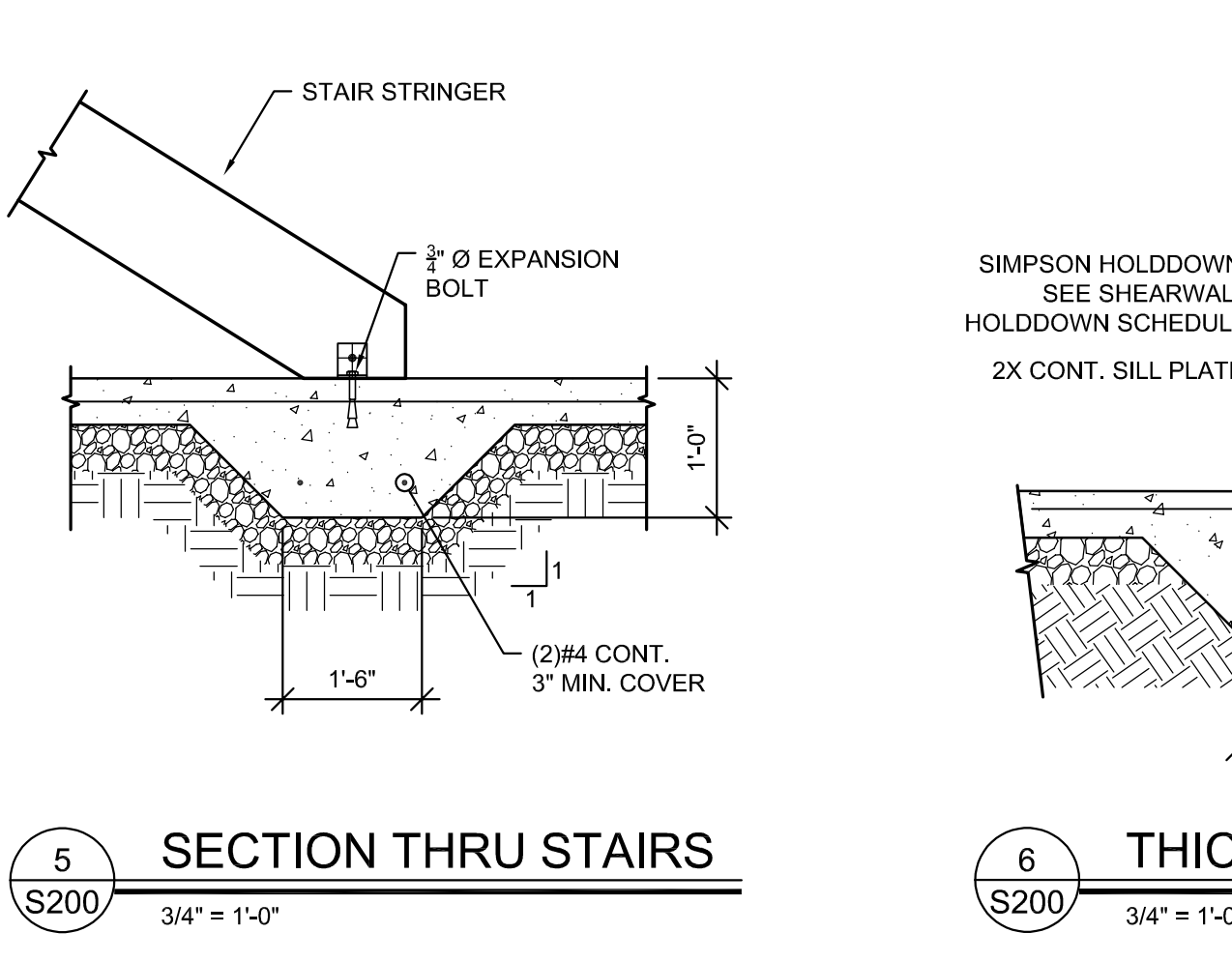
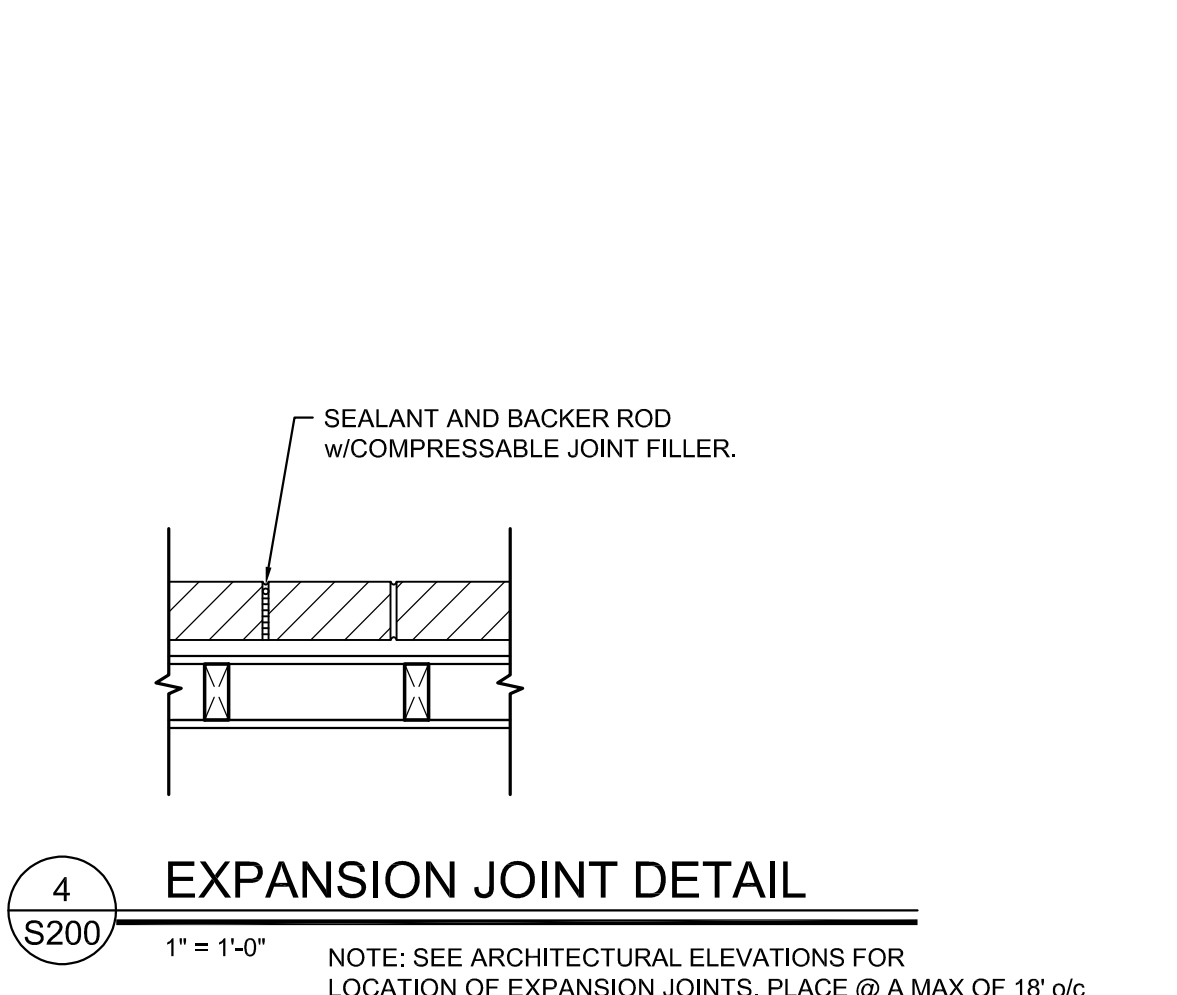
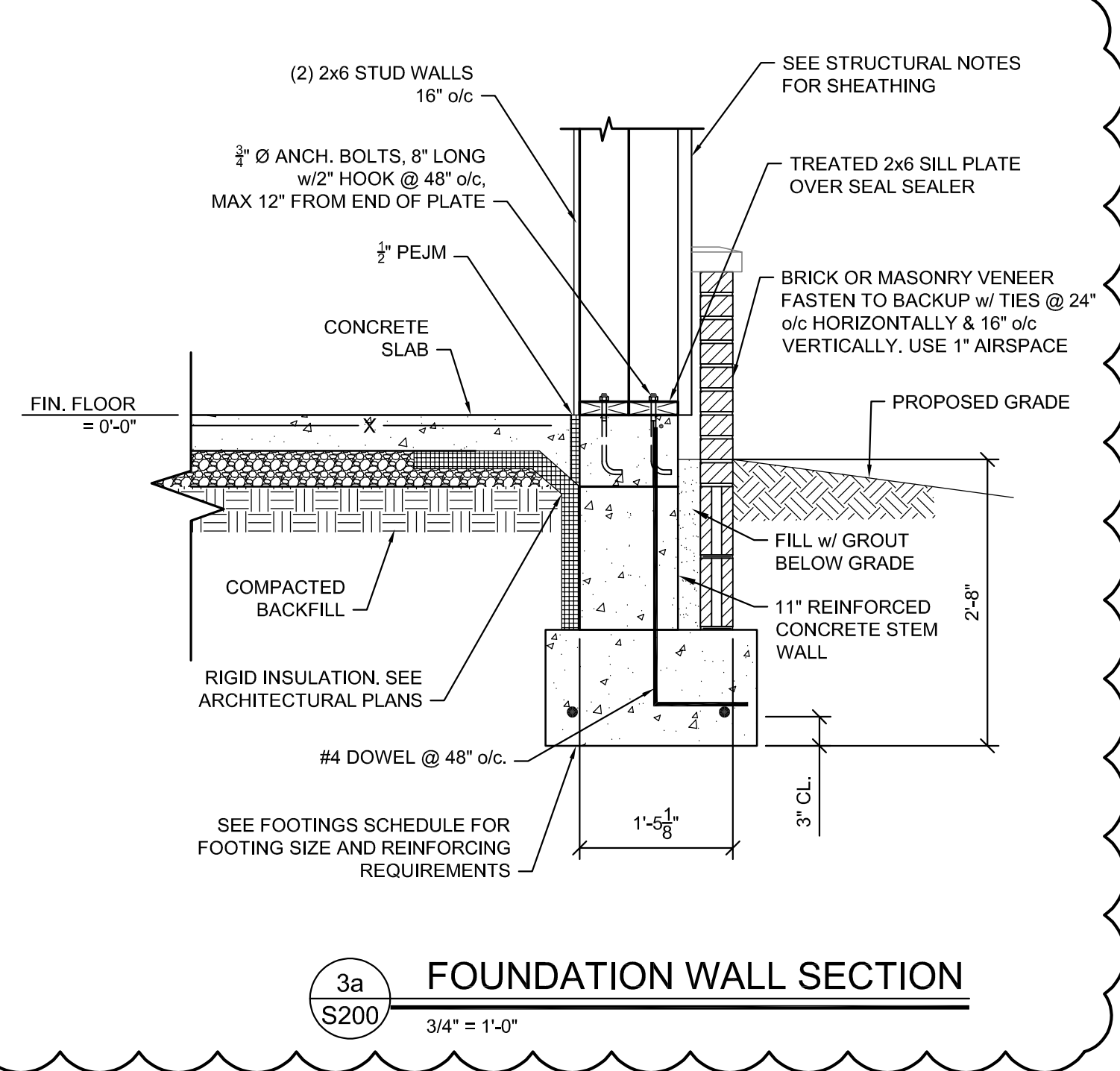
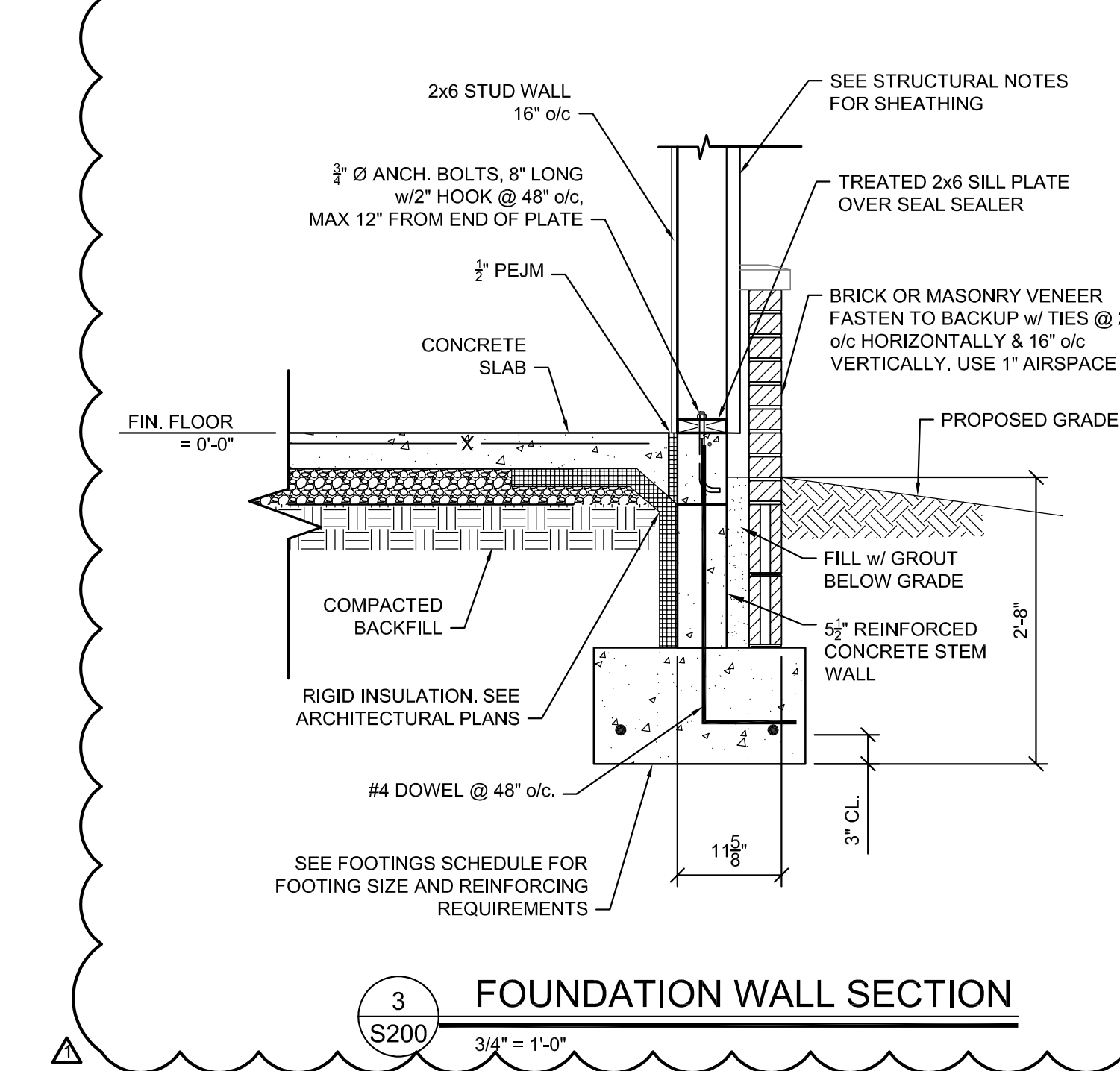
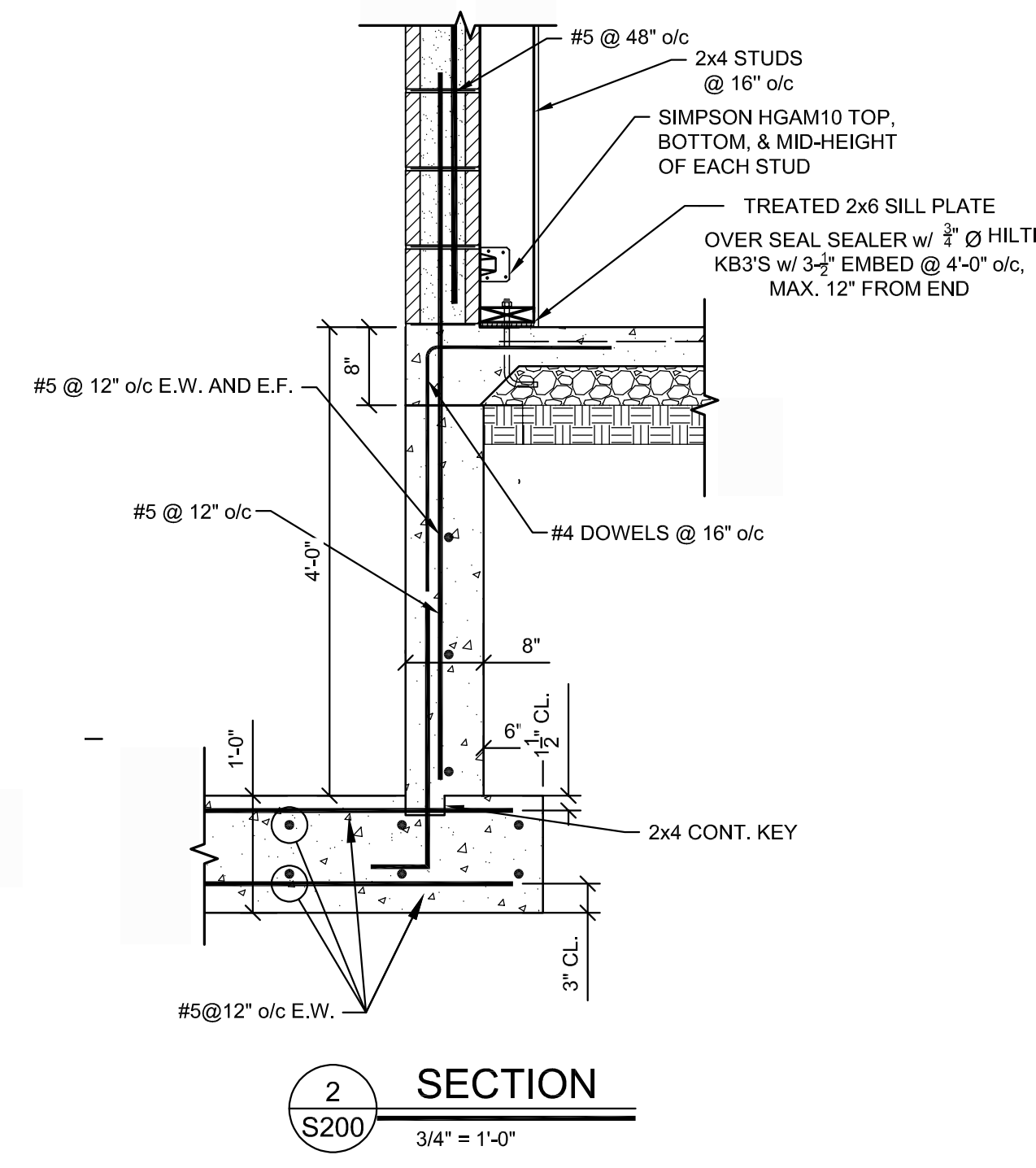
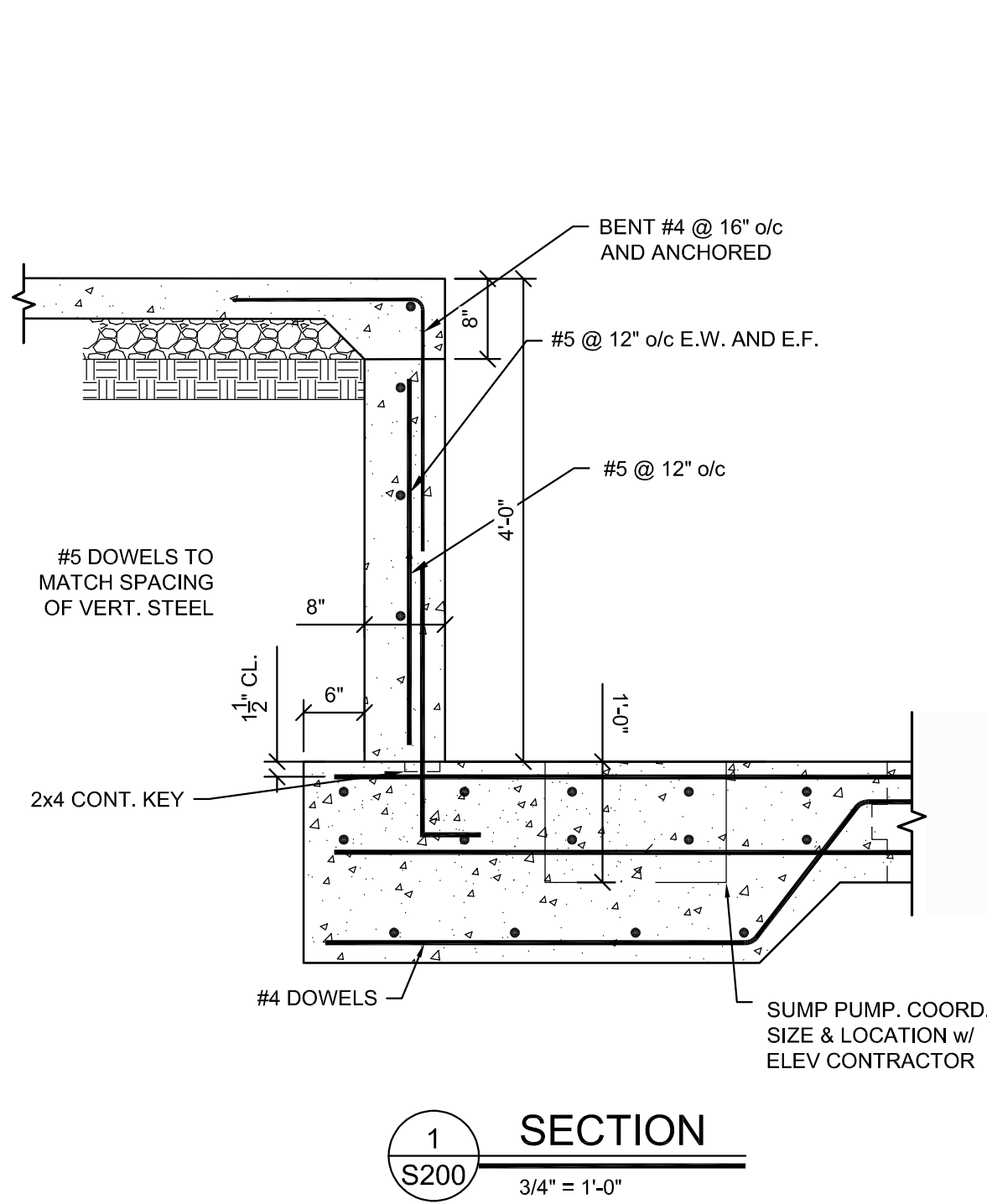
98 S301

99 S301

100 S301



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FOUNDATION SECTIONS
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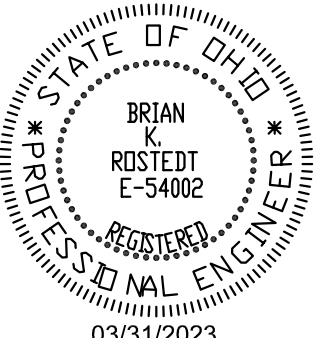


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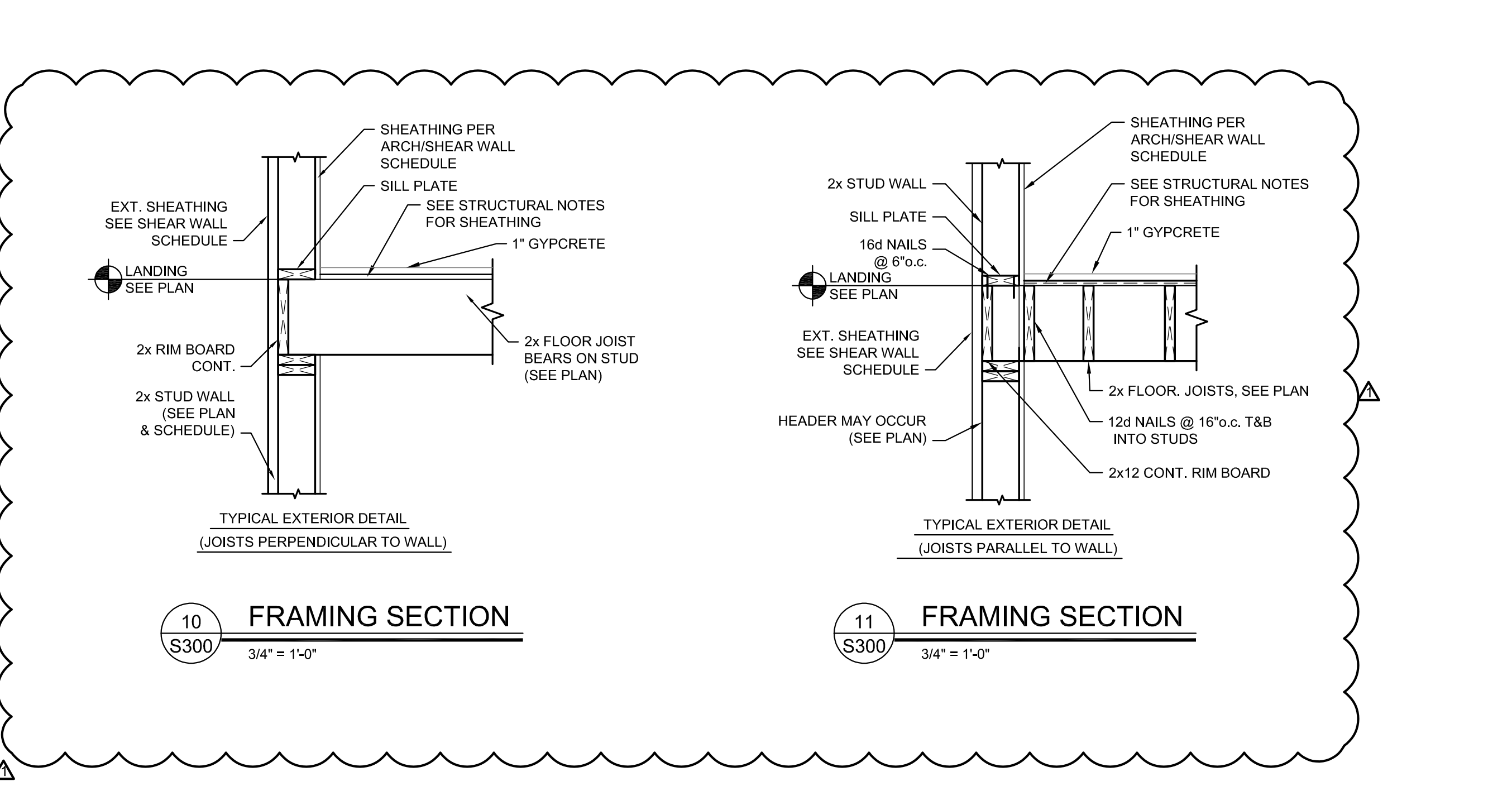
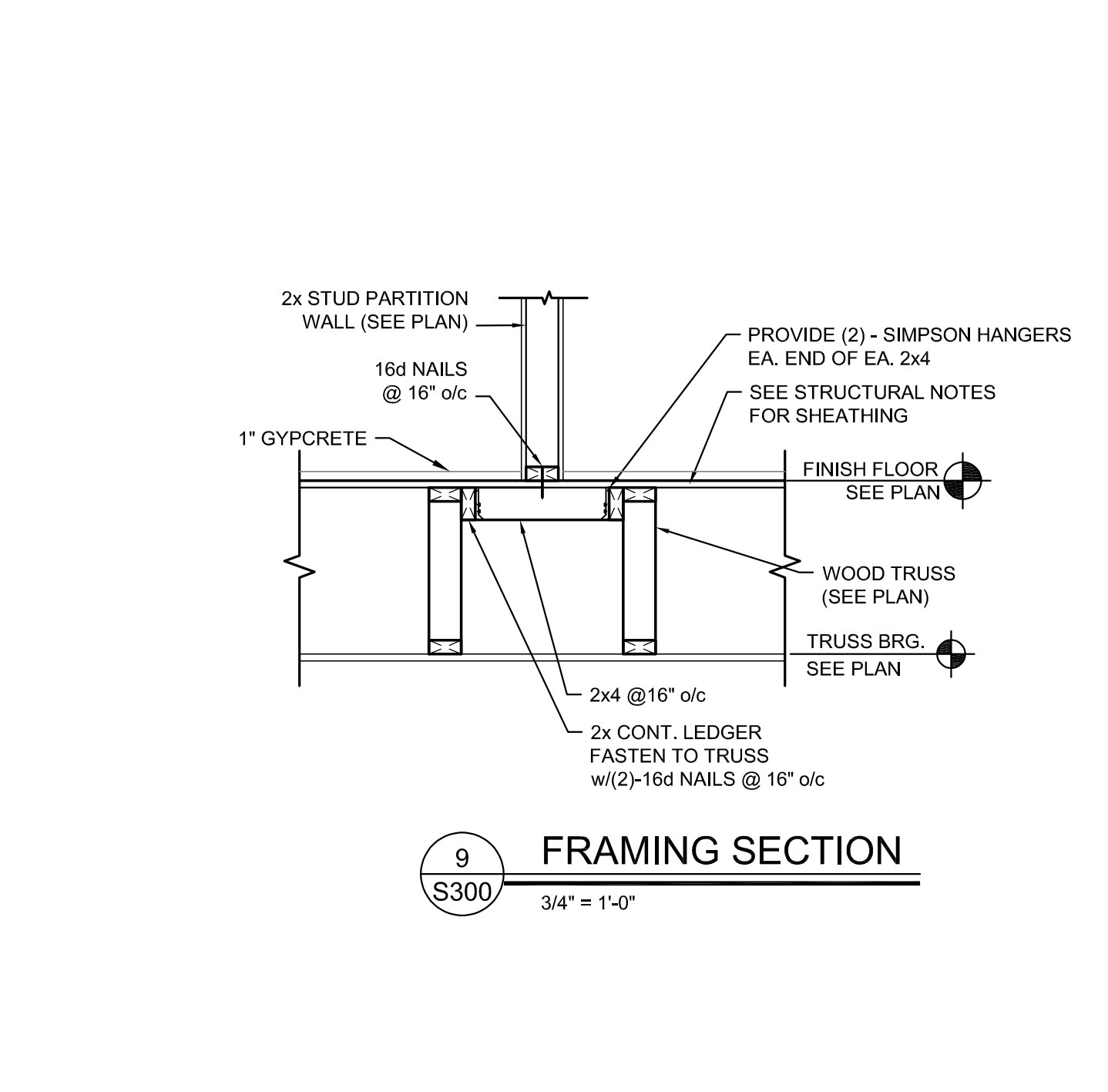
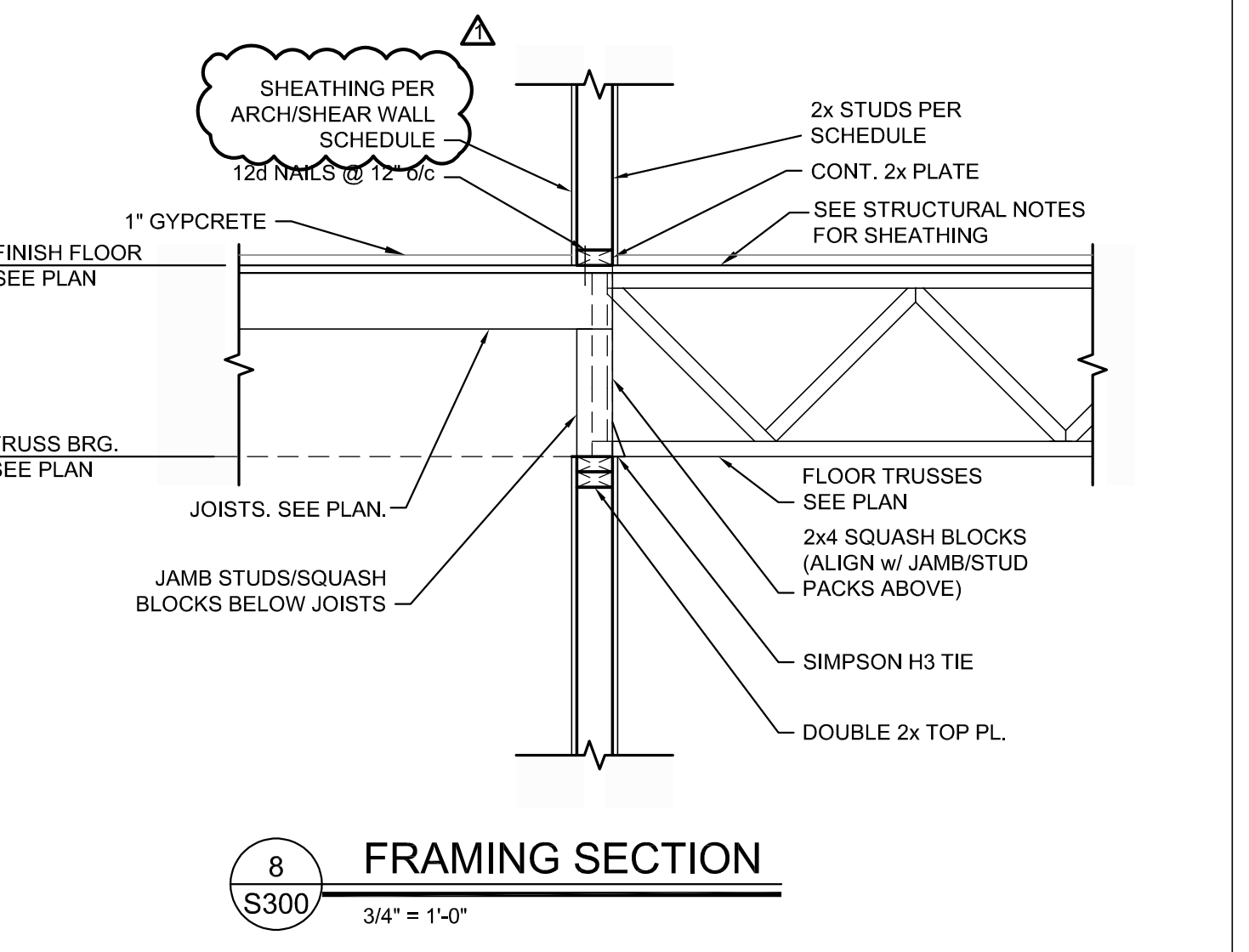
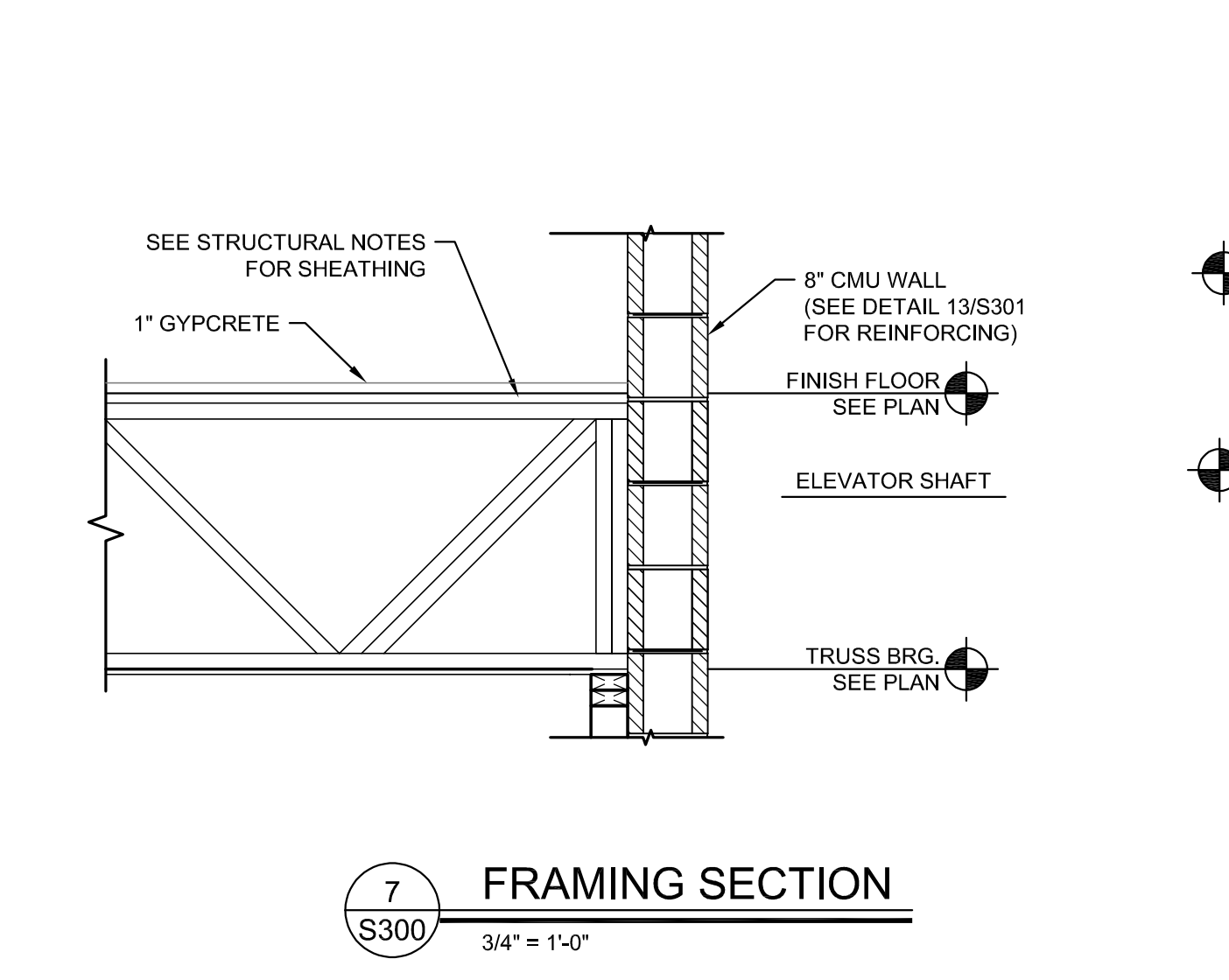
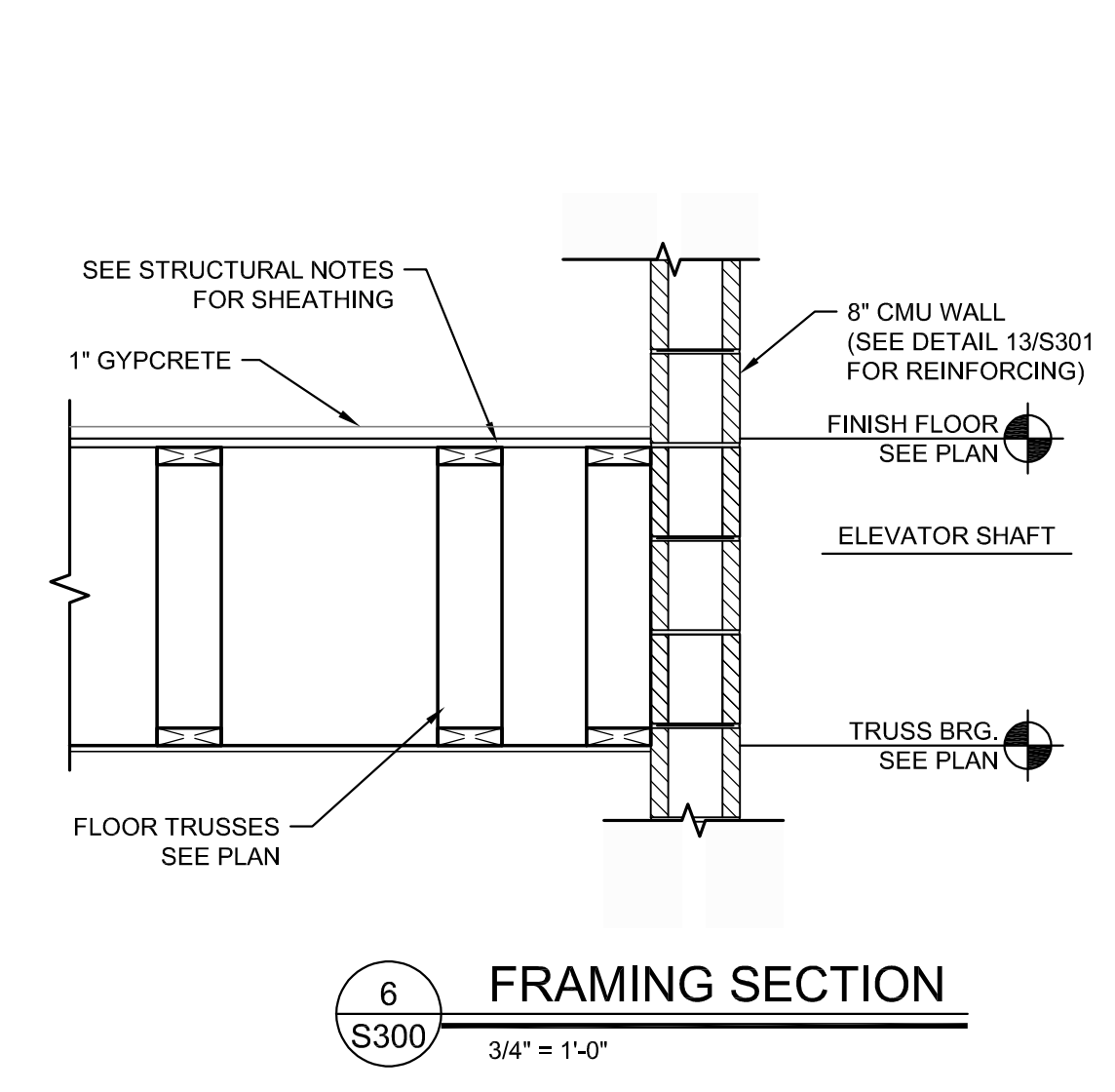
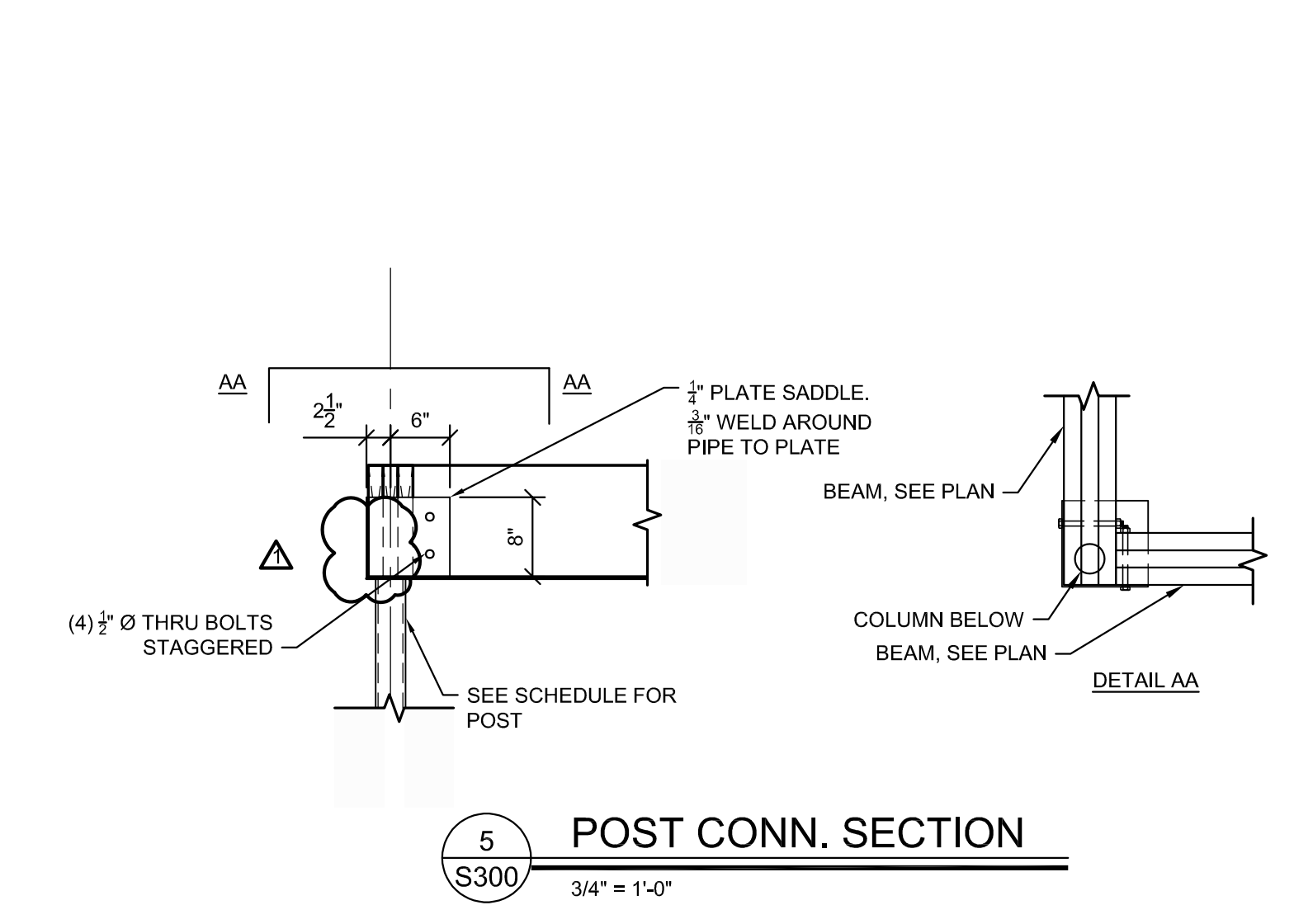
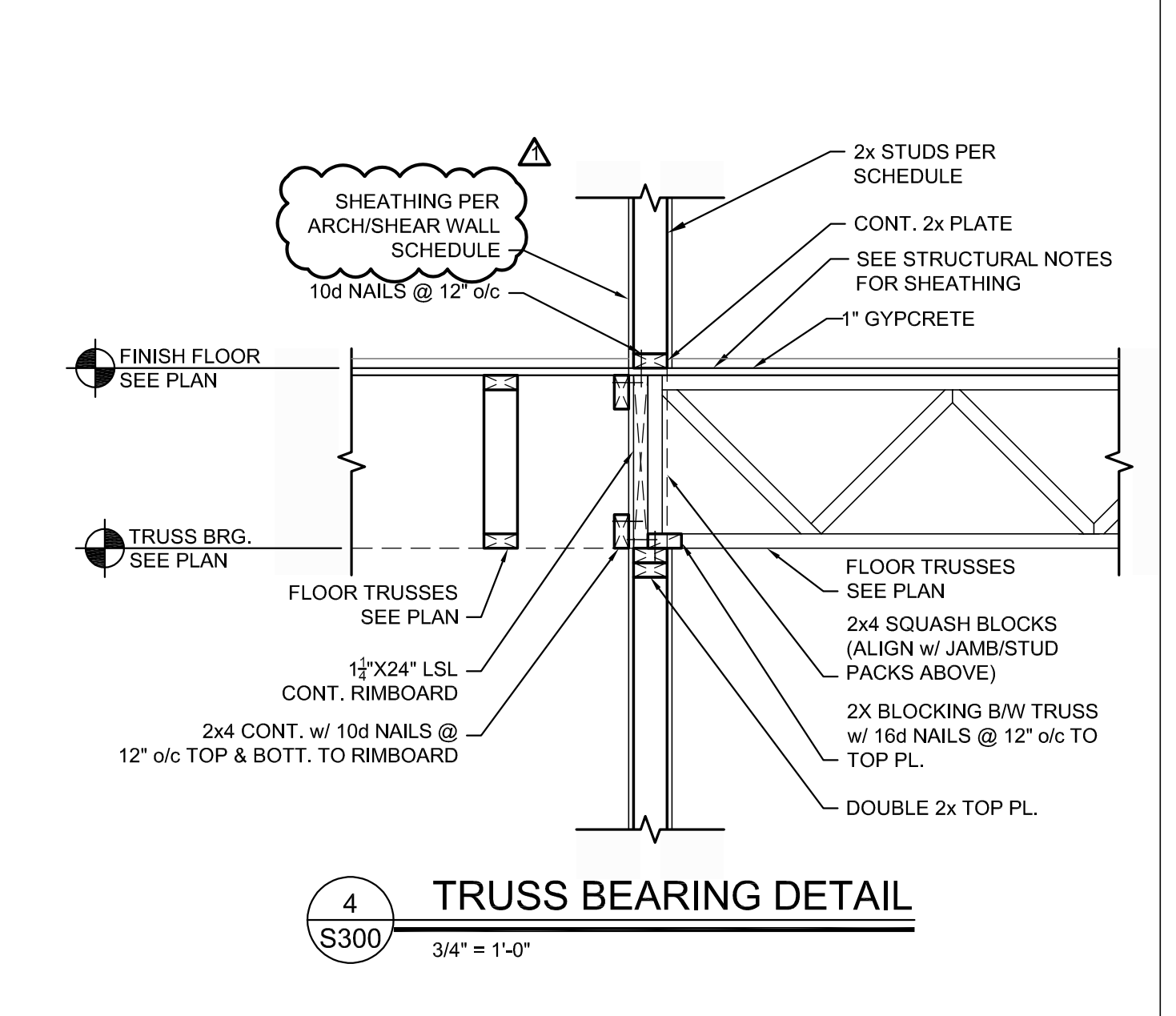
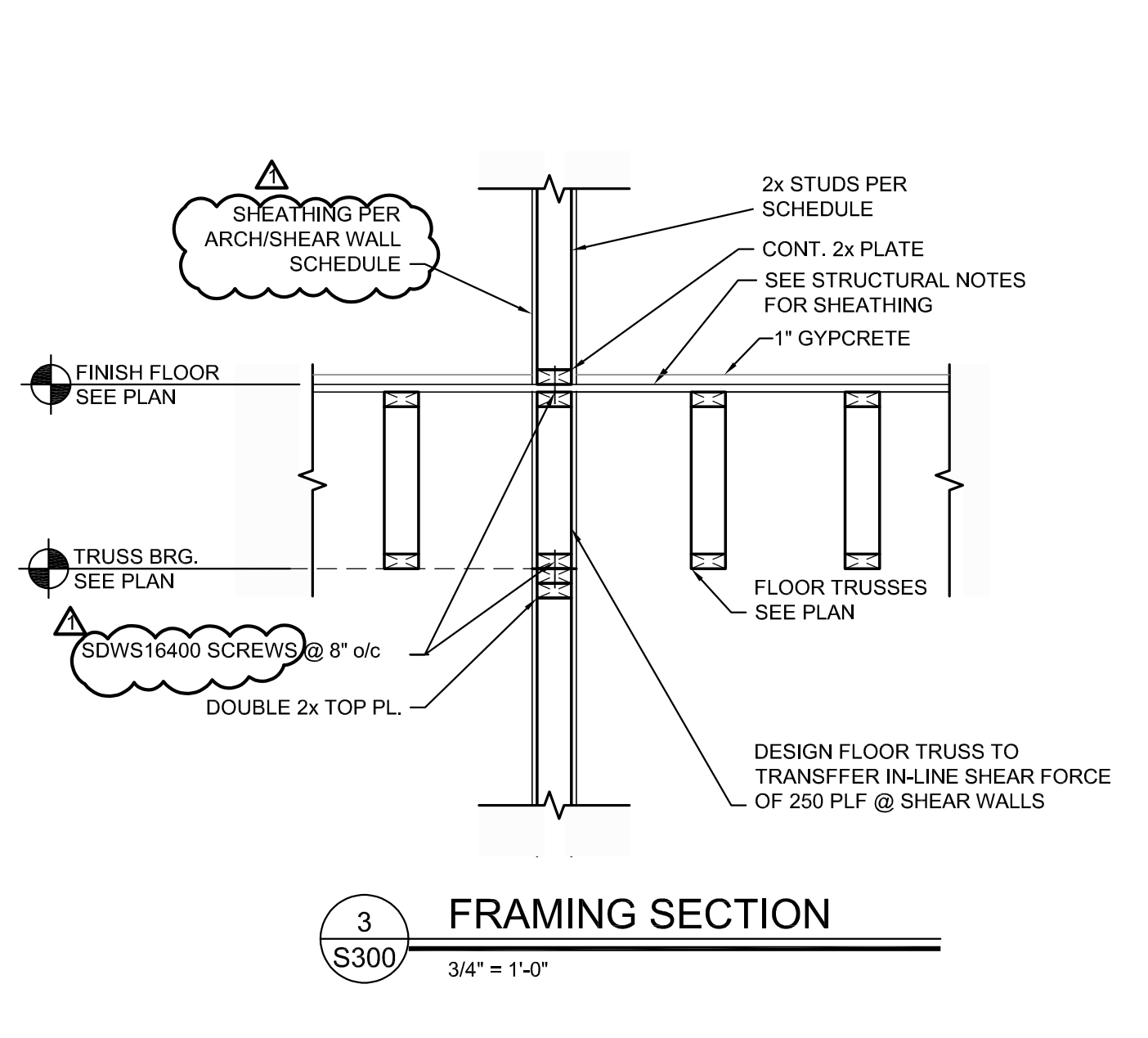
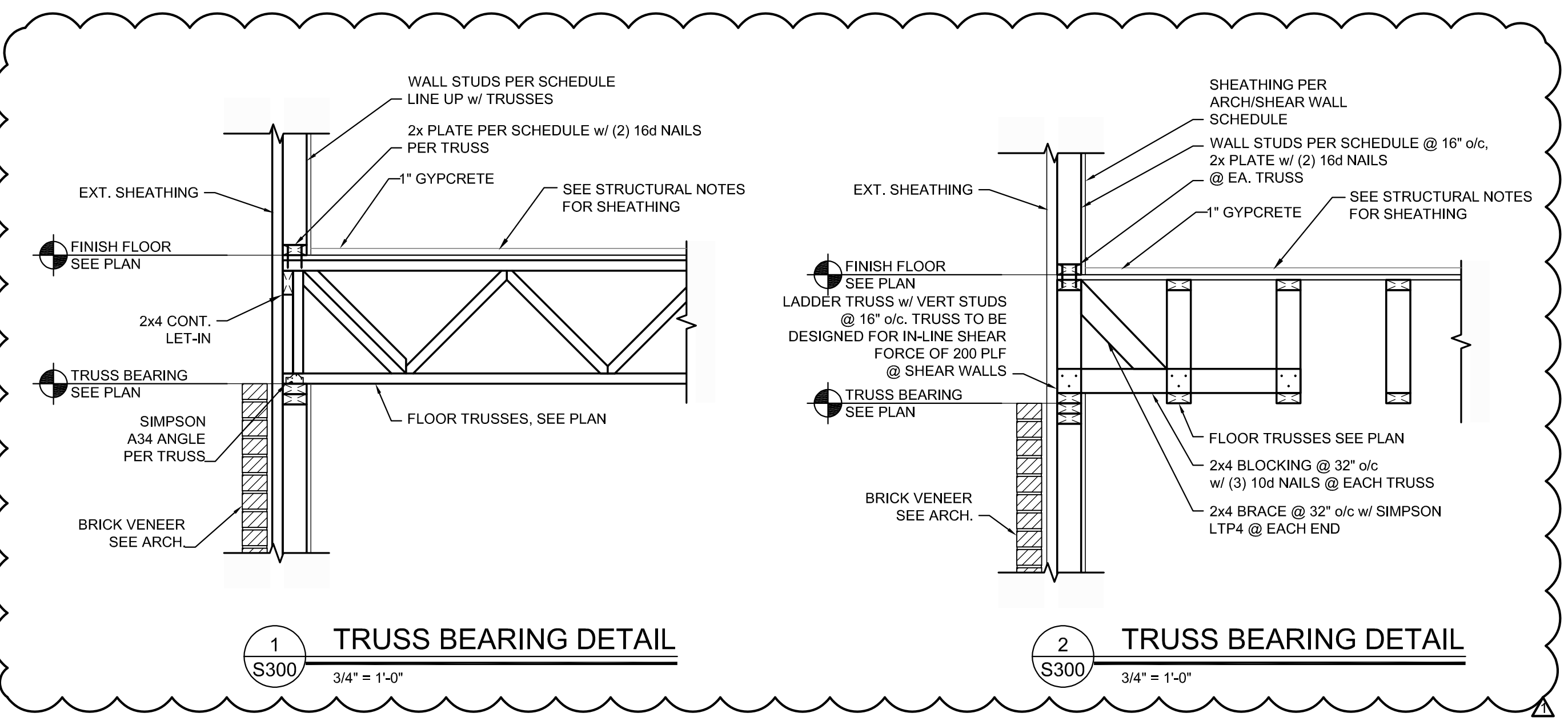
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DRAWING NUMBER



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FRAMING DETAILS
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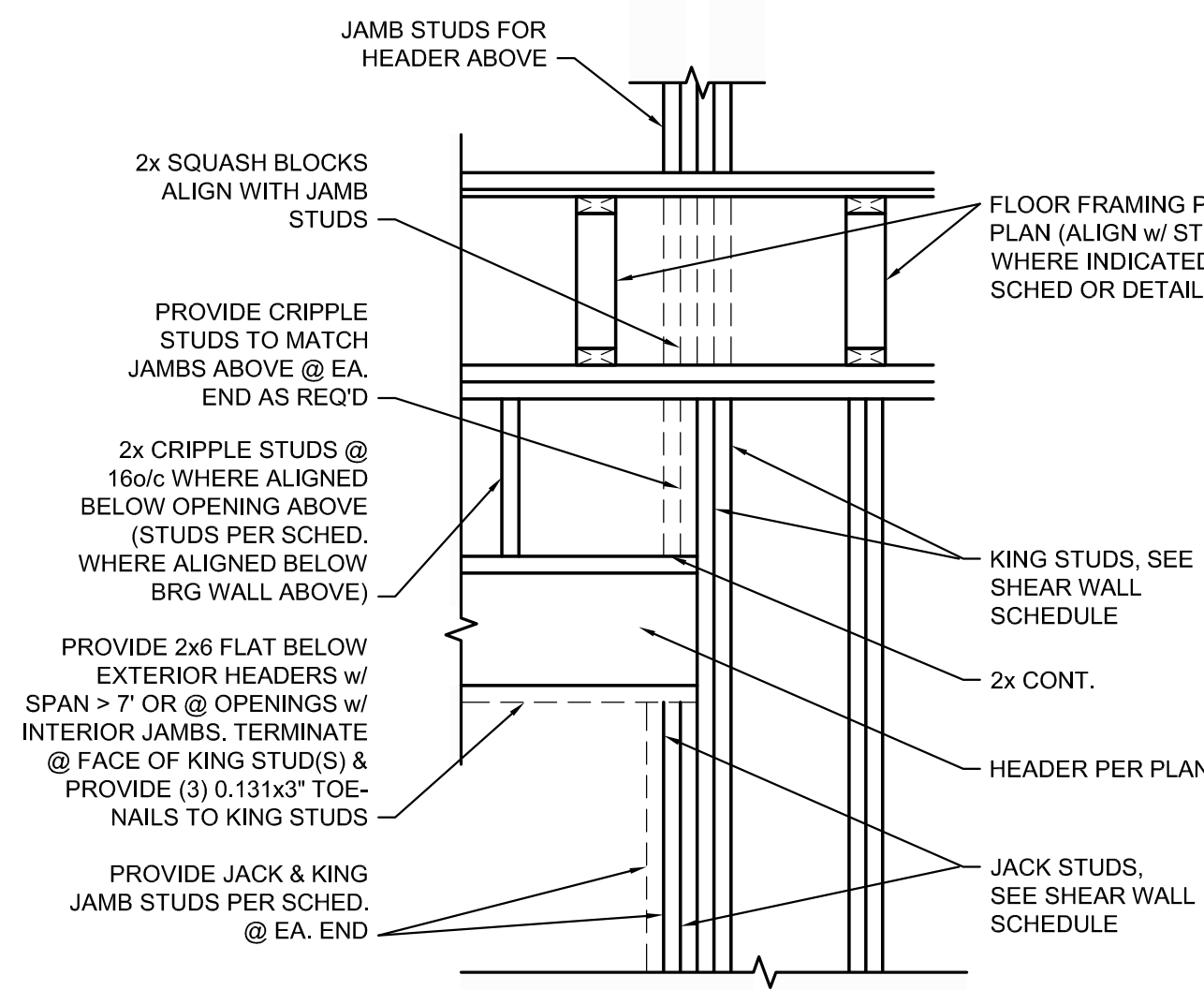


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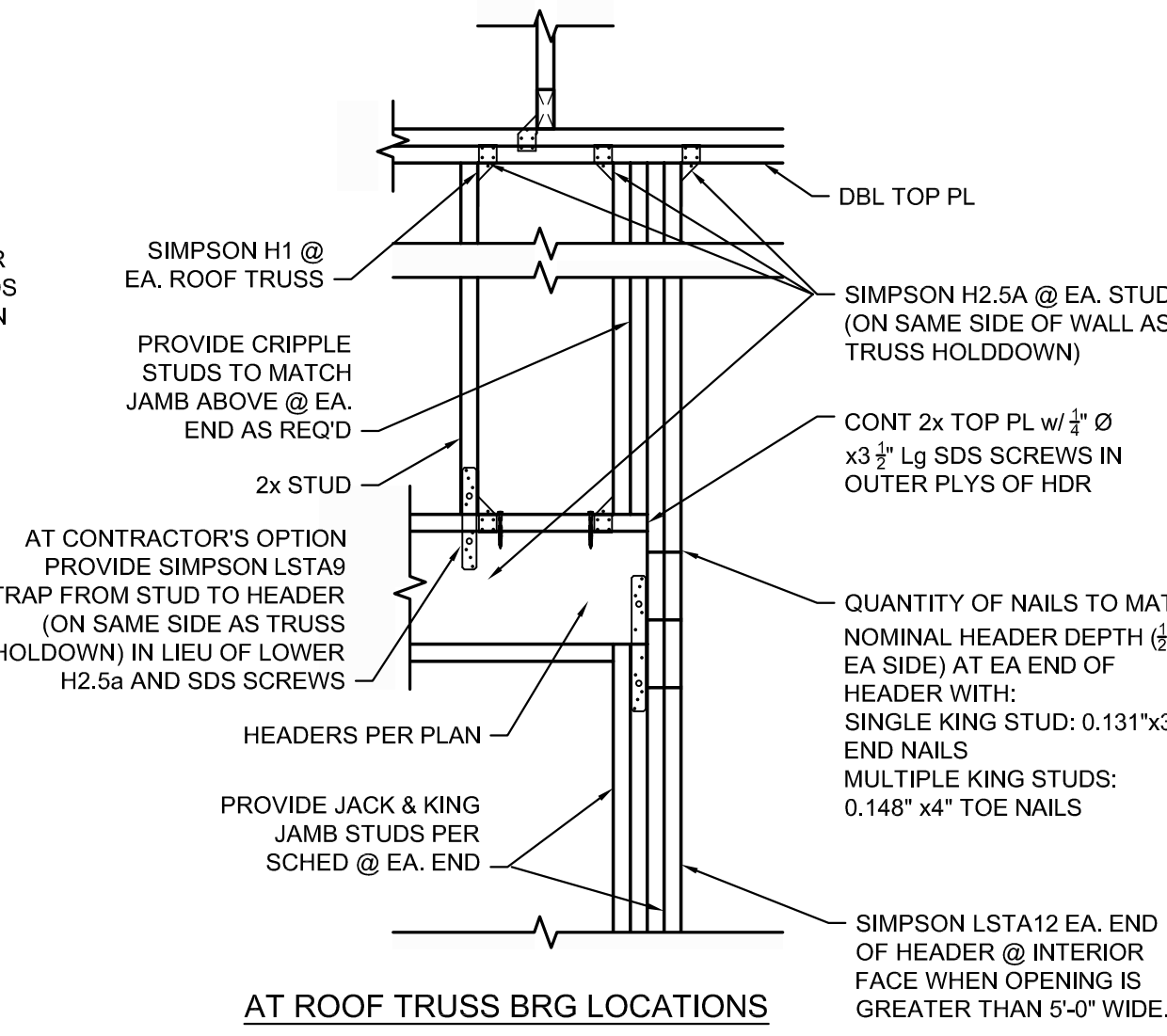
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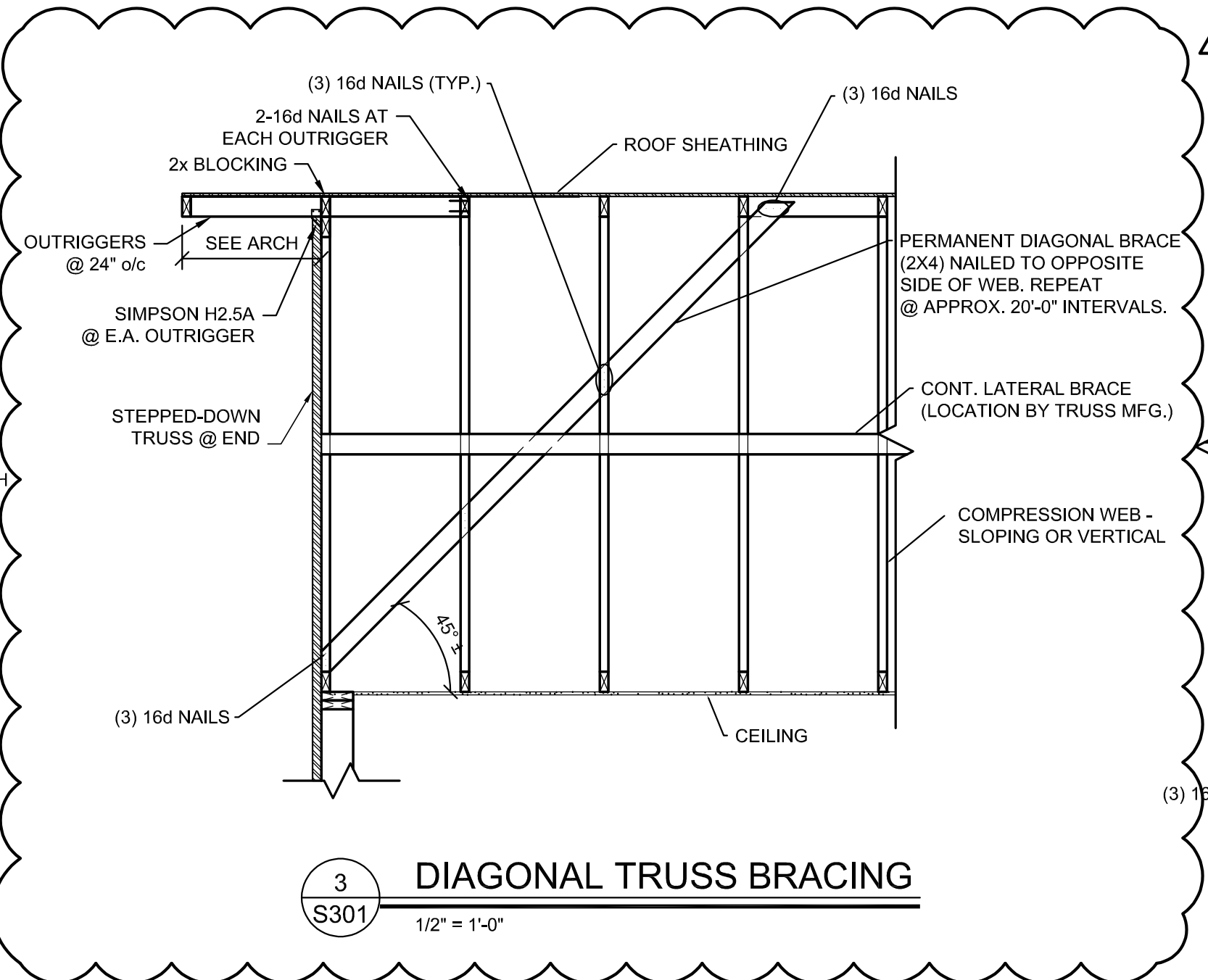
S300
DRAWING NUMBER



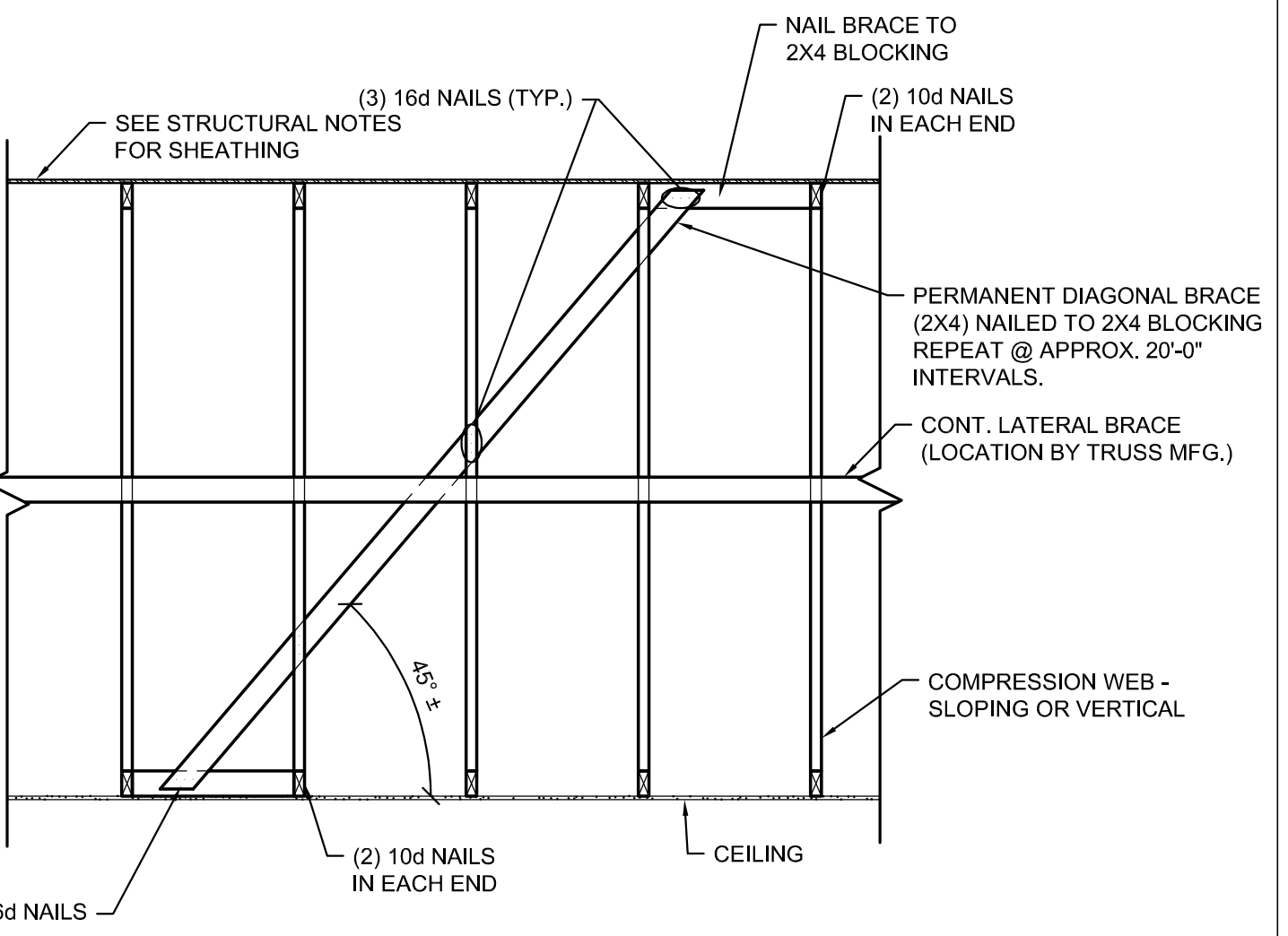
1 TYPICAL HEADER DETAIL
 S301 3/4" = 1'-0"



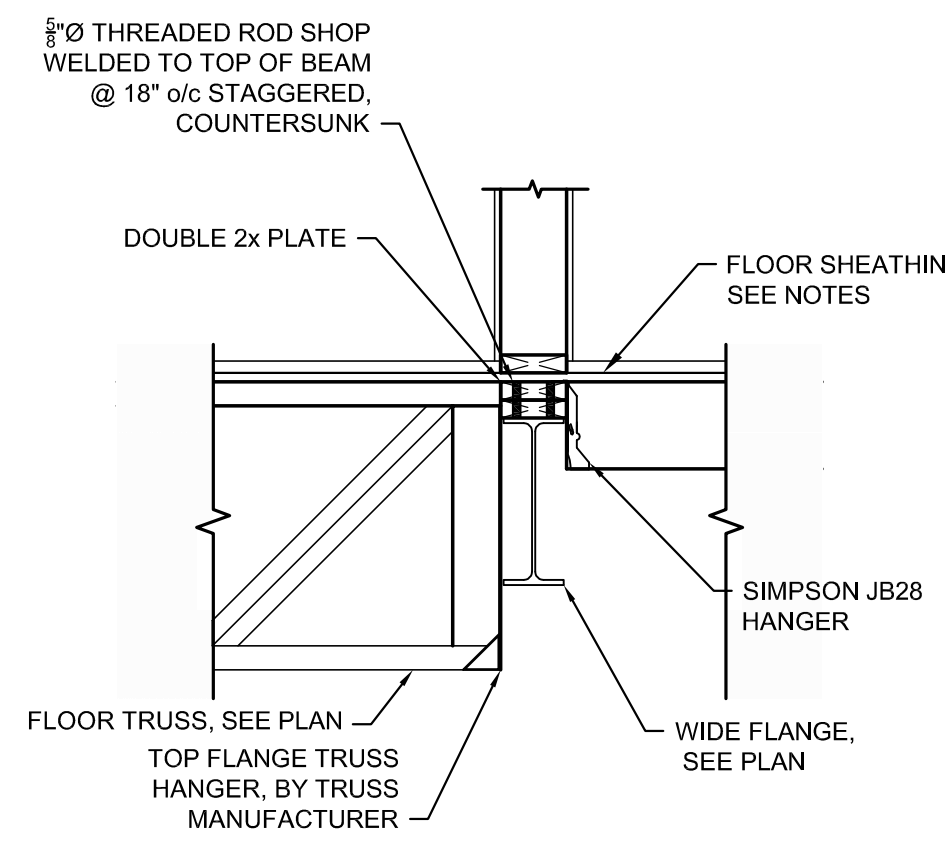
2 TYPICAL HEADER DETAIL
 S301 3/4" = 1'-0"



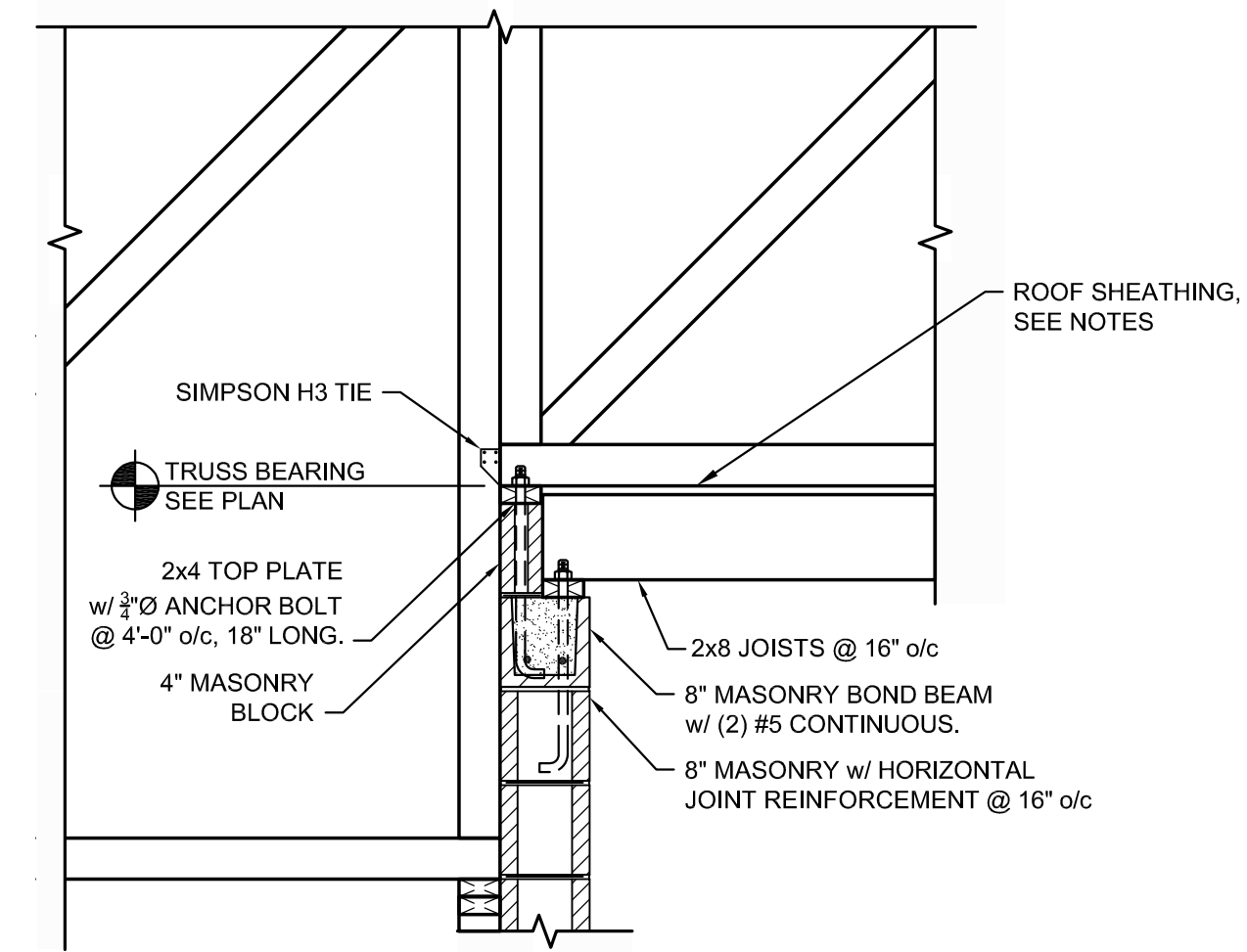
3 DIAGONAL TRUSS BRACING
 S301 1/2" = 1'-0"



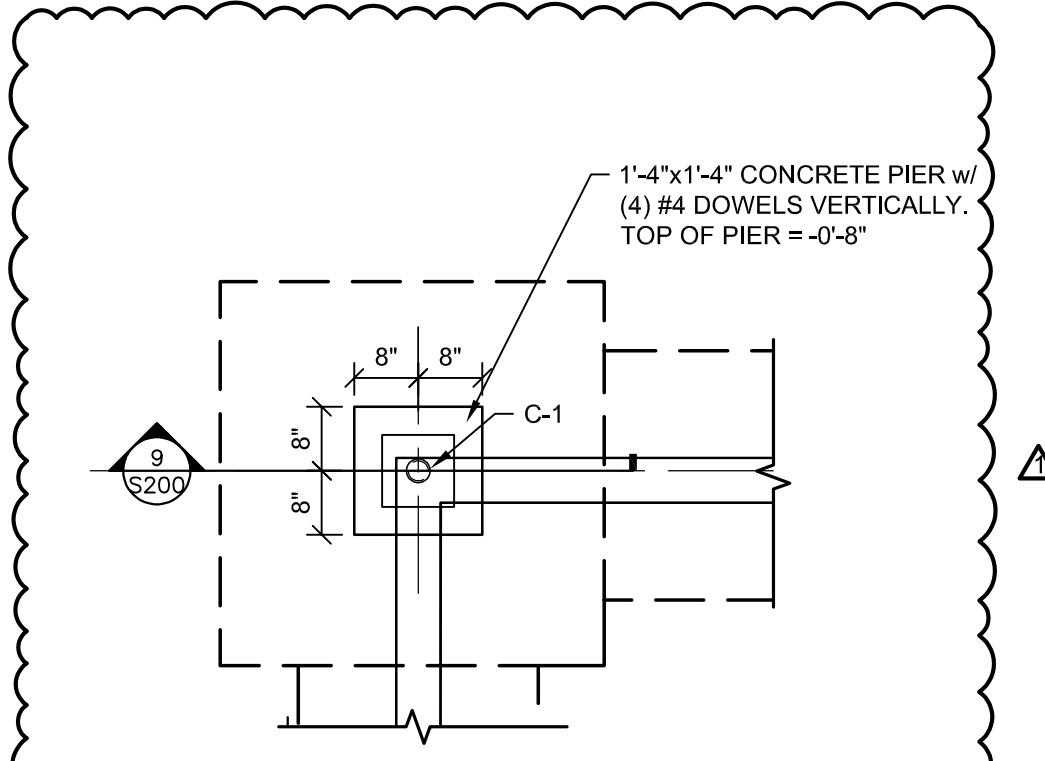
4 DIAGONAL TRUSS BRACING
 S301 1/2" = 1'-0"



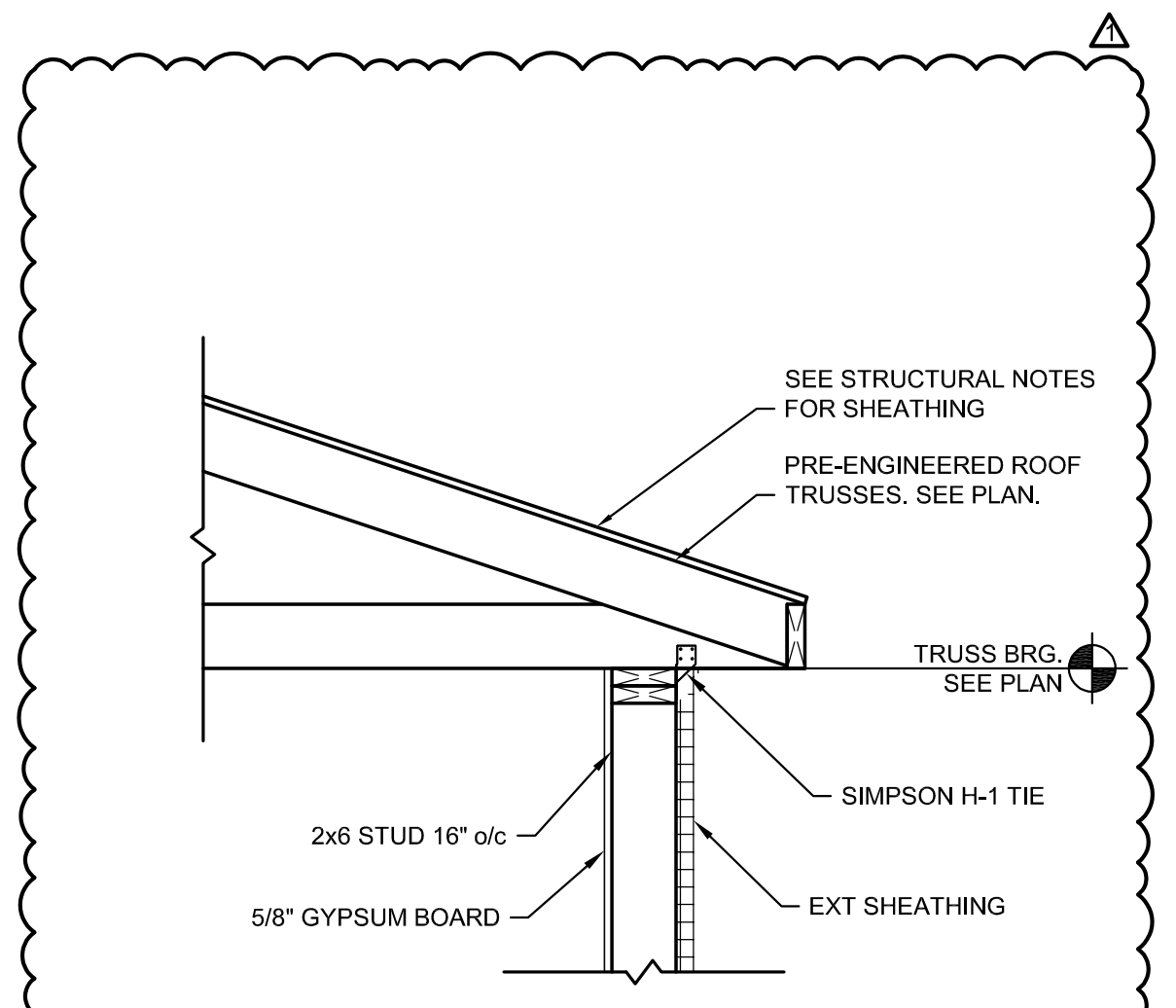
5 FRAMING SECTION
 S301 3/4" = 1'-0"



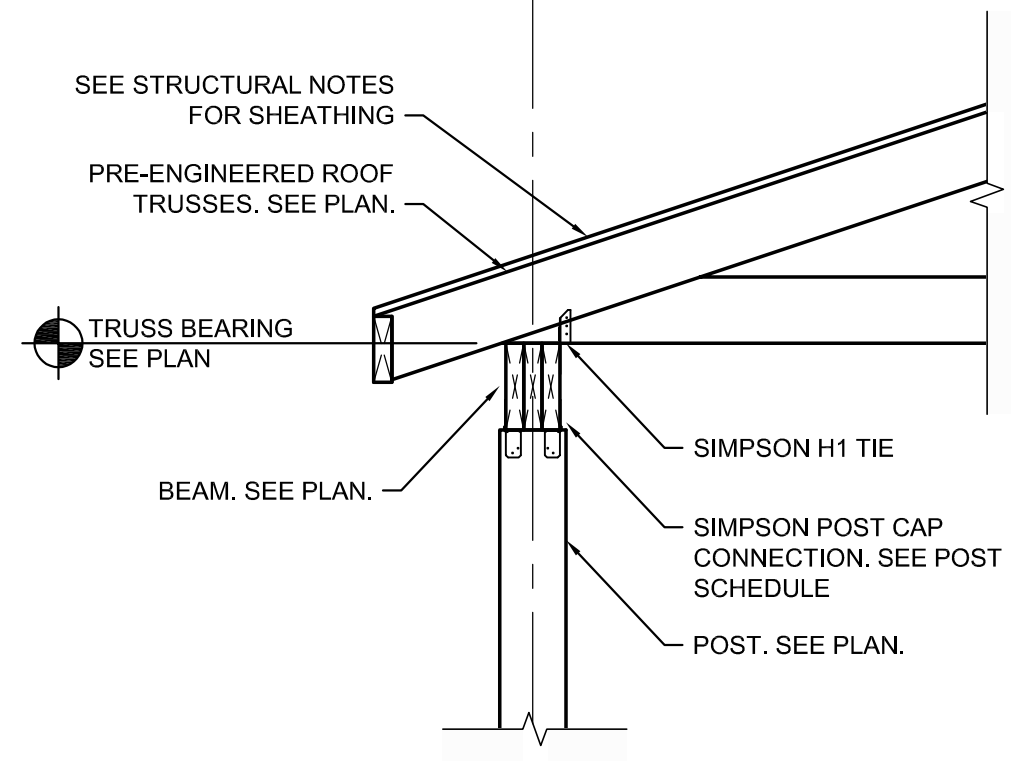
6 FRAMING SECTION
 S301 3/4" = 1'-0"



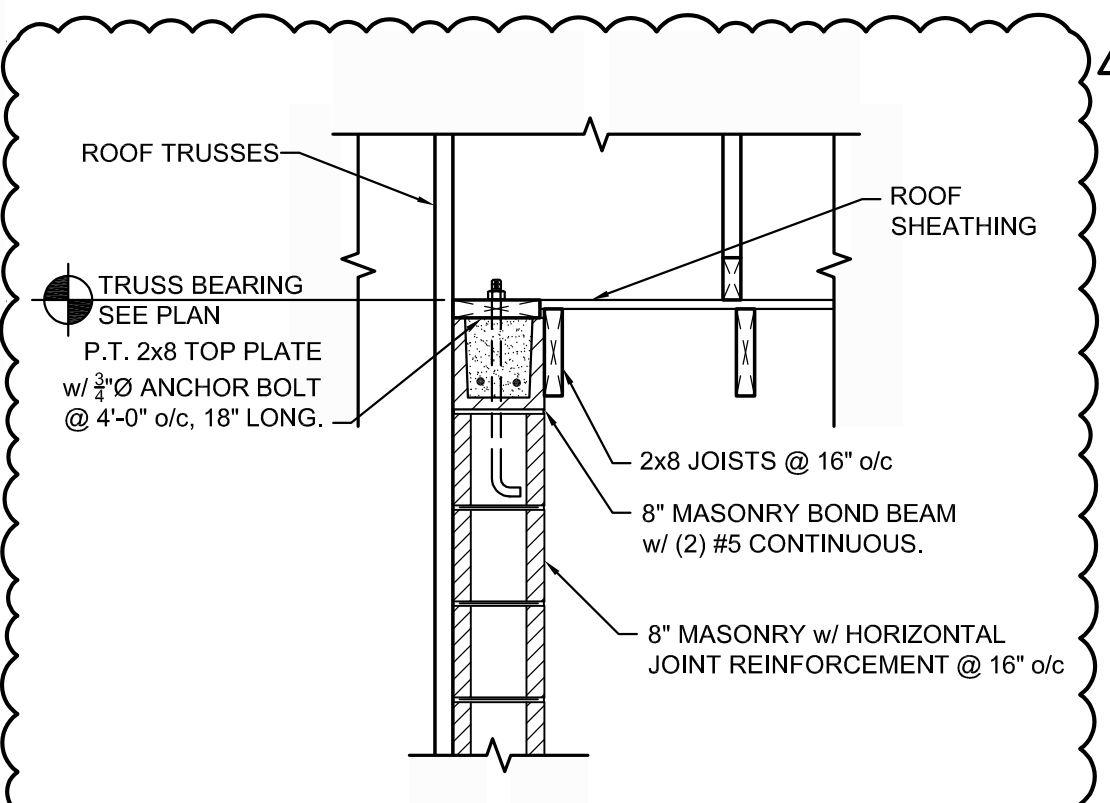
7 PIER PLAN
 S301 1/2" = 1'-0"



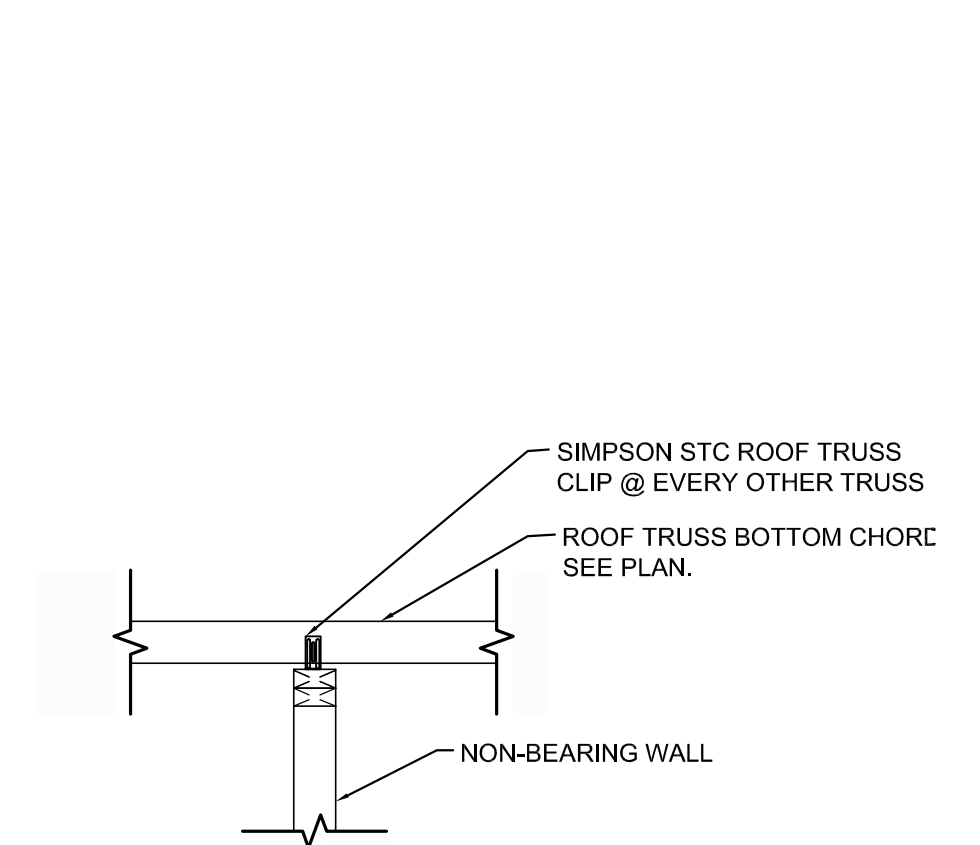
8 ROOF SECTION
 S301 3/4" = 1'-0"



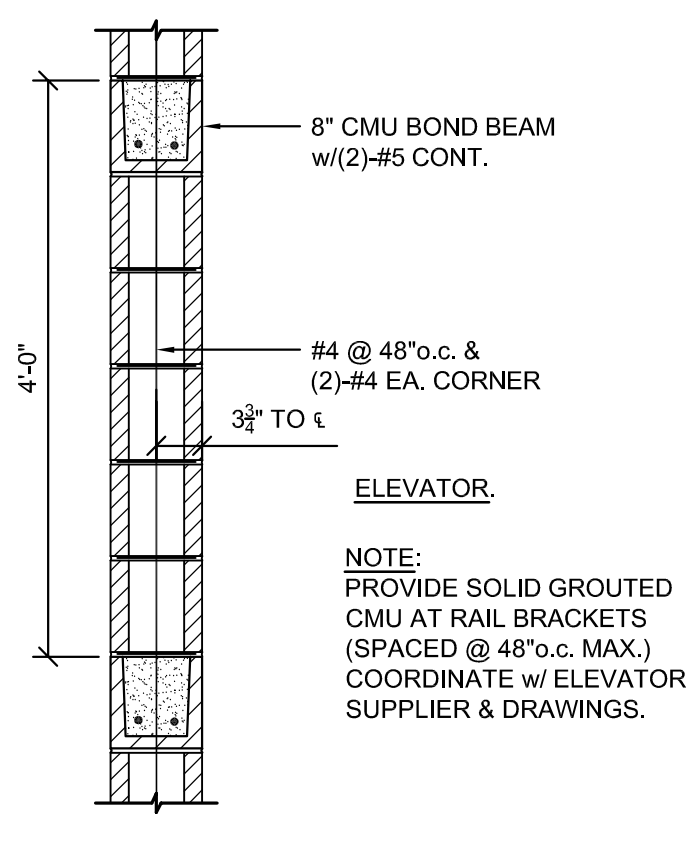
9 FRAMING SECTION
 S301 3/4" = 1'-0"



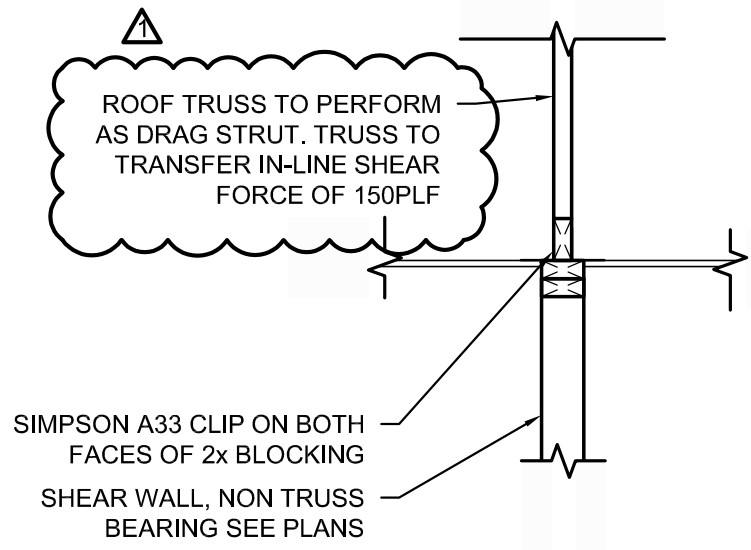
10 FRAMING SECTION
 S301 3/4" = 1'-0"



11 NON-BEARING WALL SECTION
 S301 3/4" = 1'-0"



12 ELEVATOR WALL
 S301 3/4" = 1'-0"



13 FRAMING SECTION
 S301 3/4" = 1'-0"

FRAMING DETAILS
 GERMANTOWN CROSSING
 DAYTON OHIO

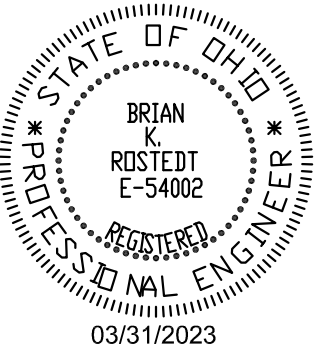


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REVISIONS

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FRAMING DETAILS
GERMANTOWN CROSSING
DAYTON OHIO

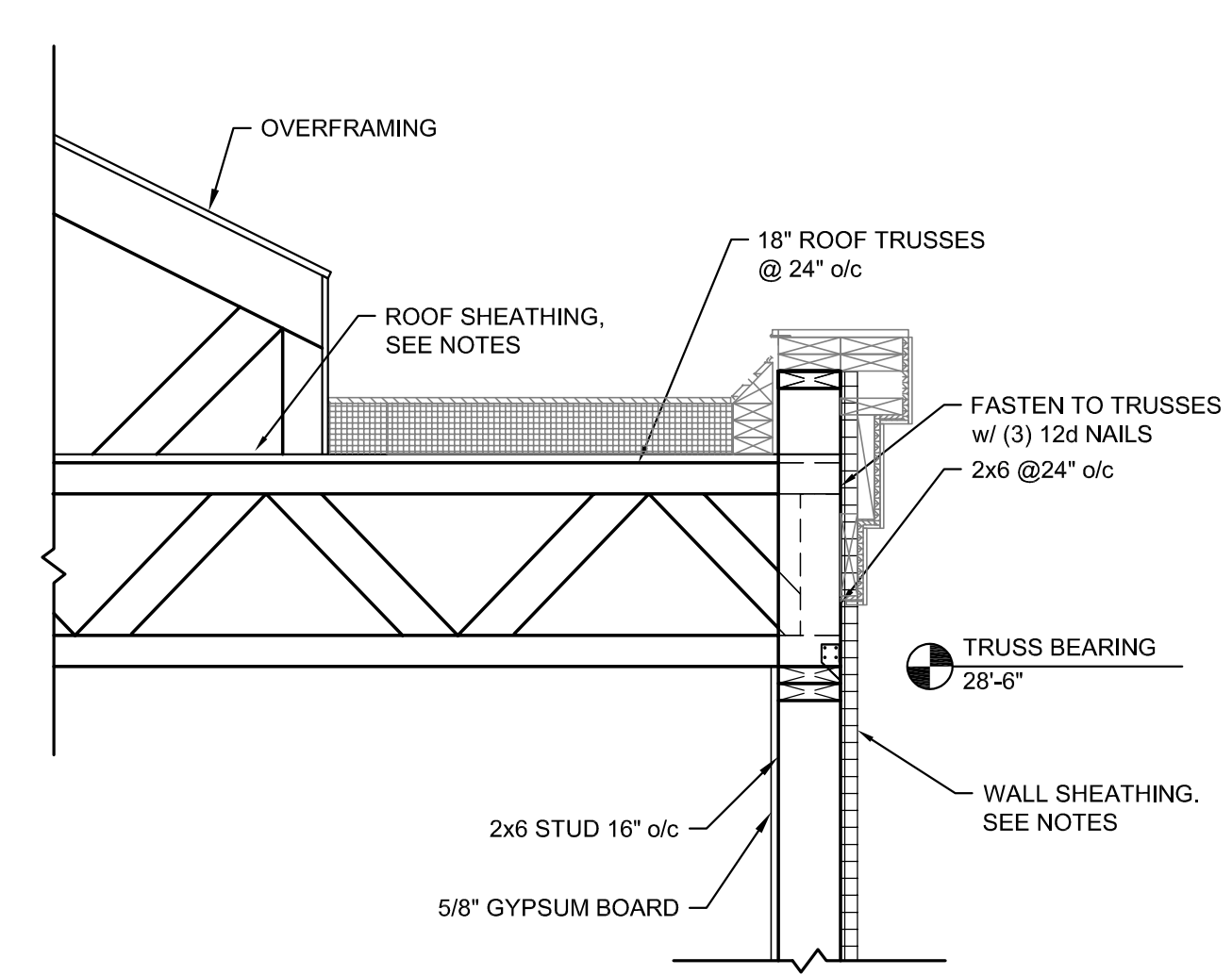


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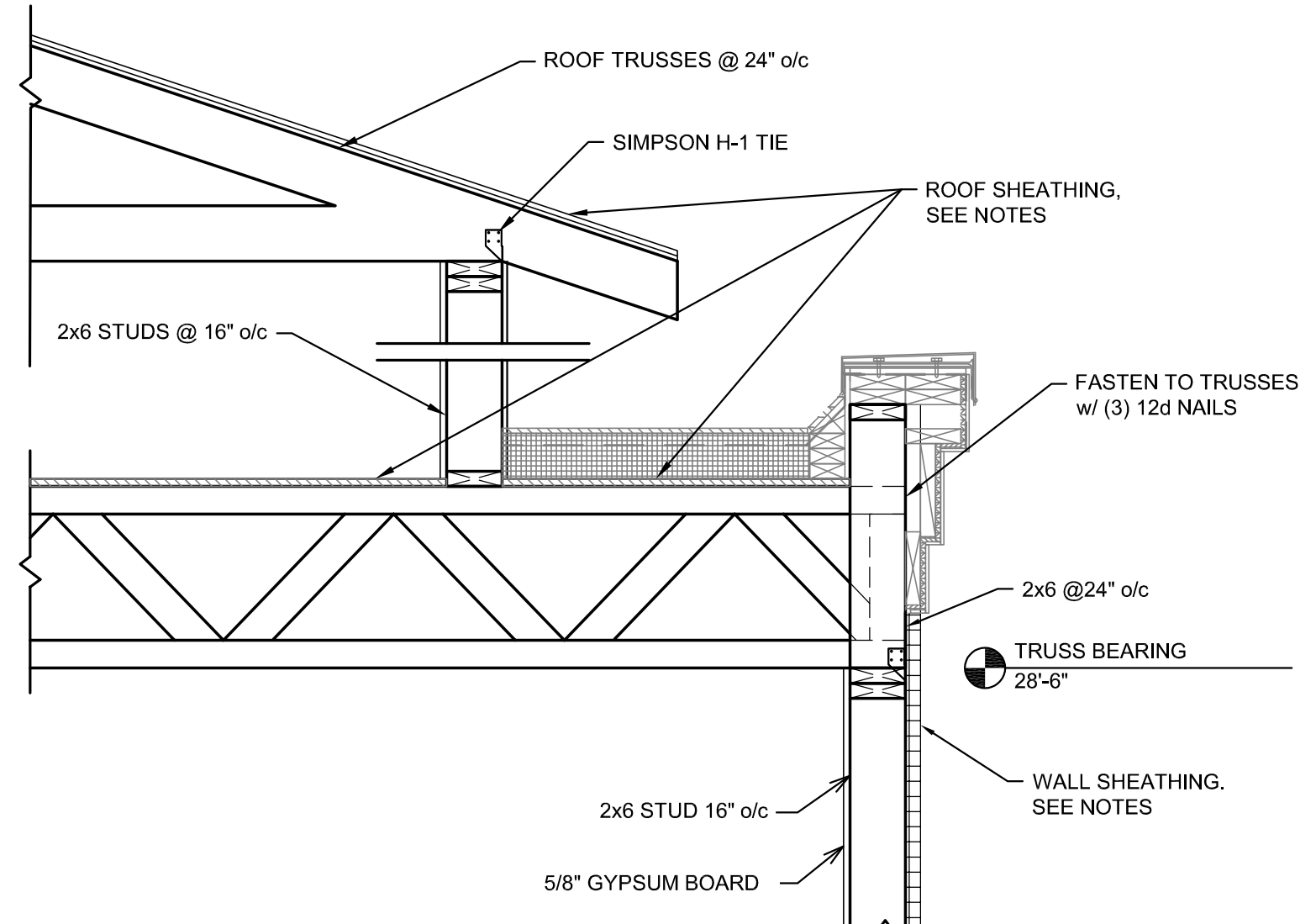
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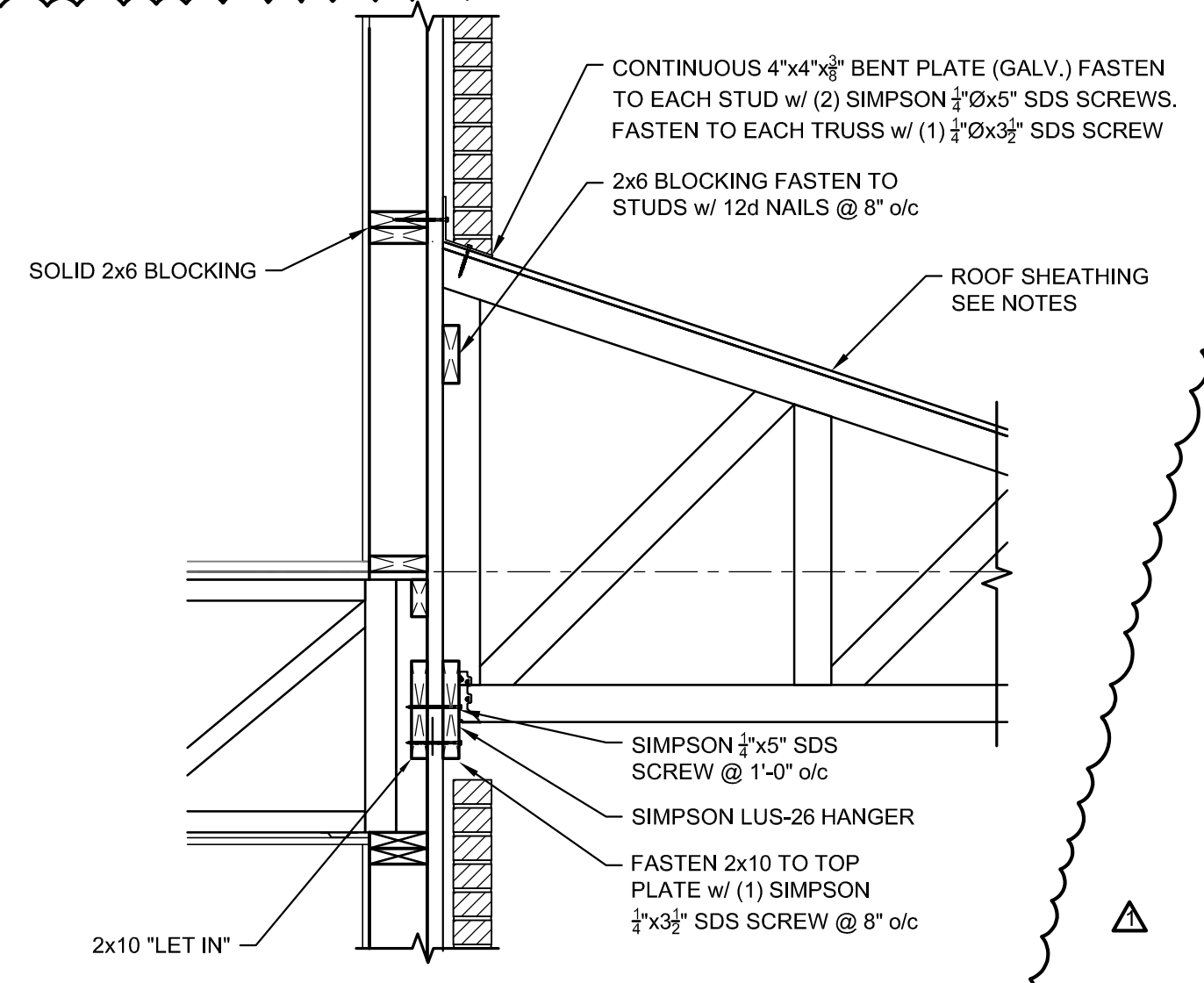
S302
 DRAWING NUMBER



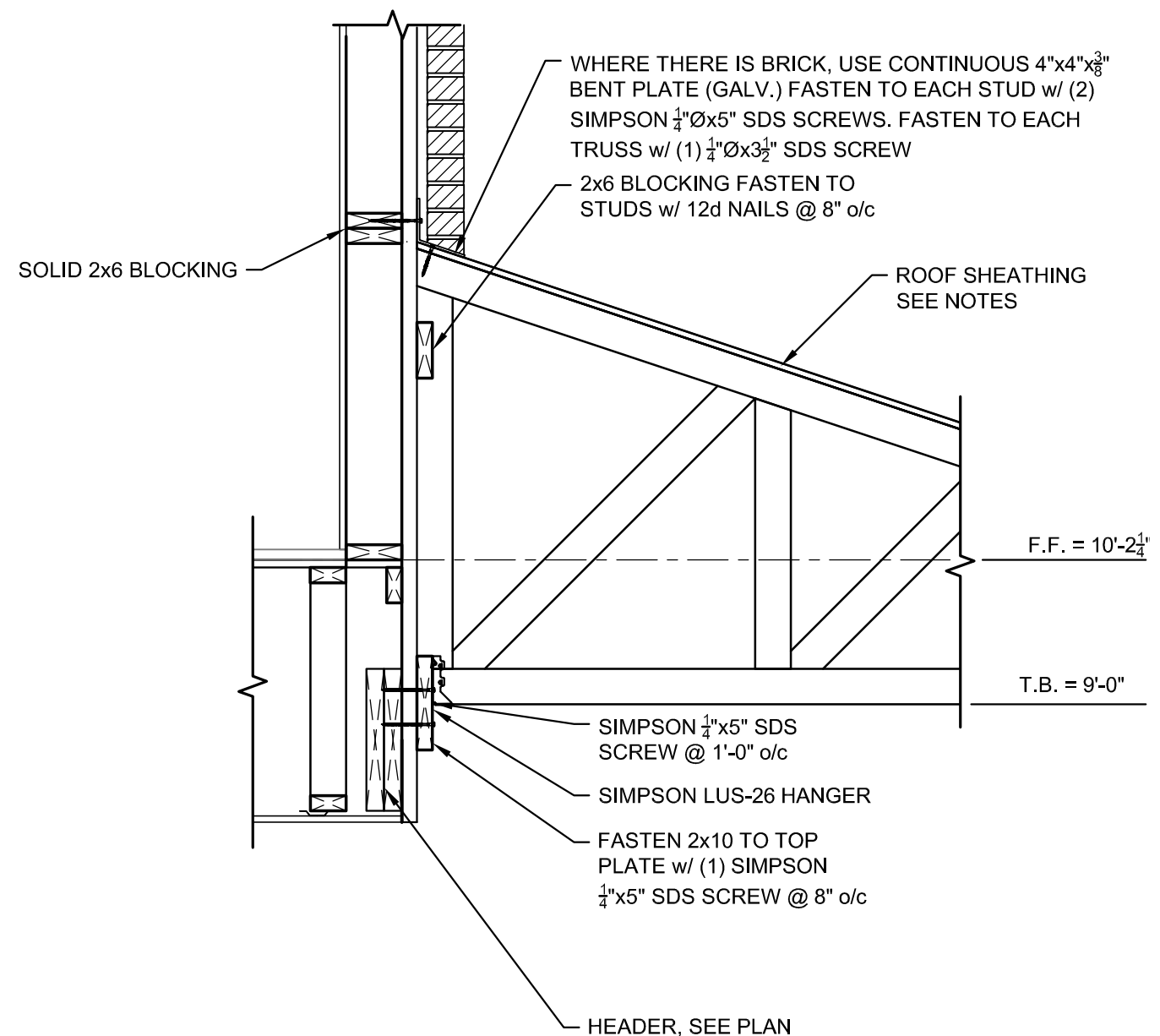
1 ROOF SECTION
 S302 3/4" = 1'-0"



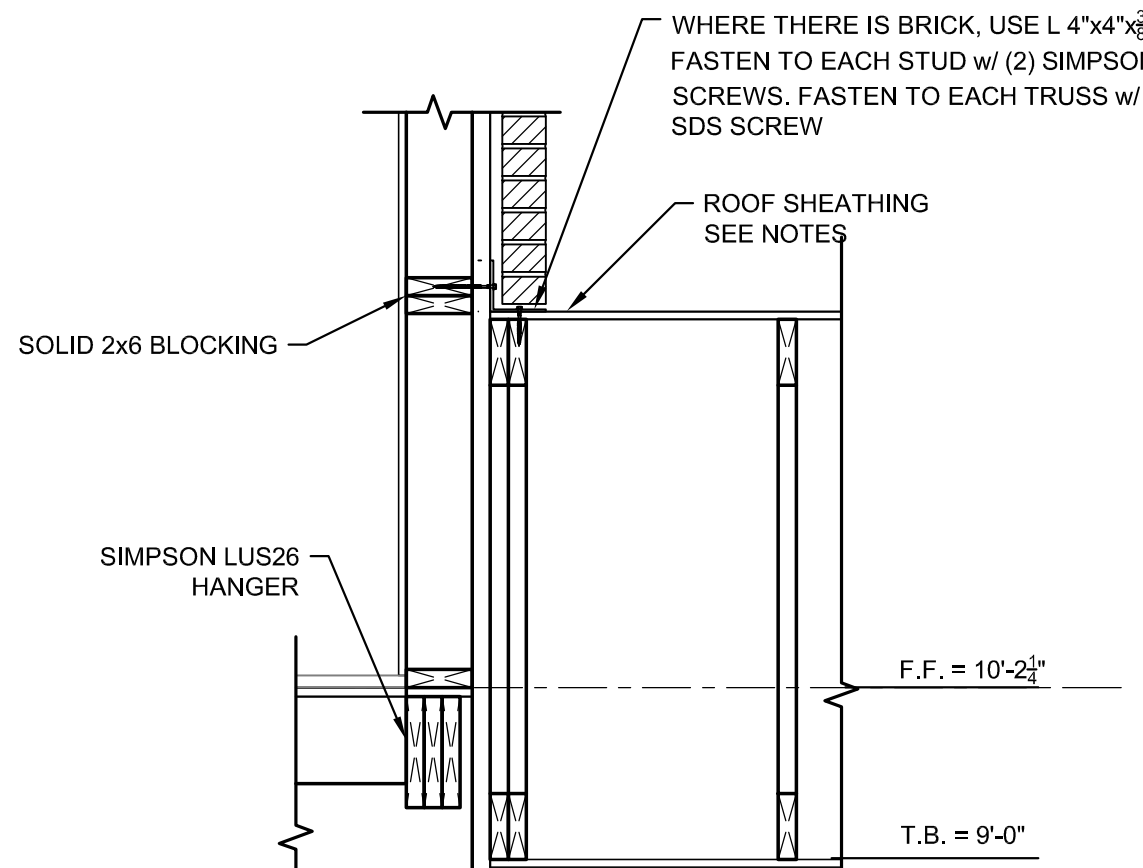
2 ROOF SECTION
 S302 3/4" = 1'-0"



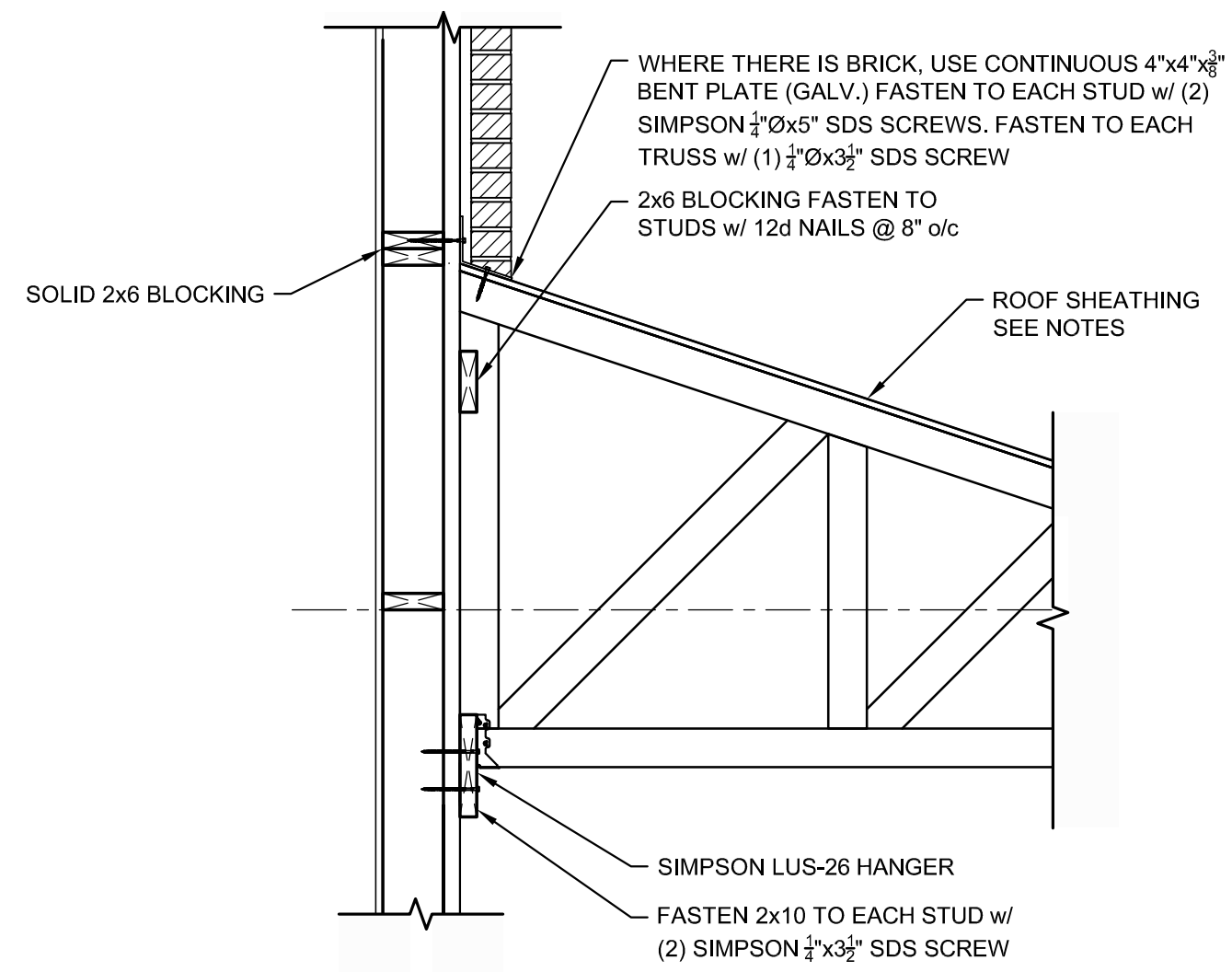
3 ROOF SECTION
 S302 3/4" = 1'-0"



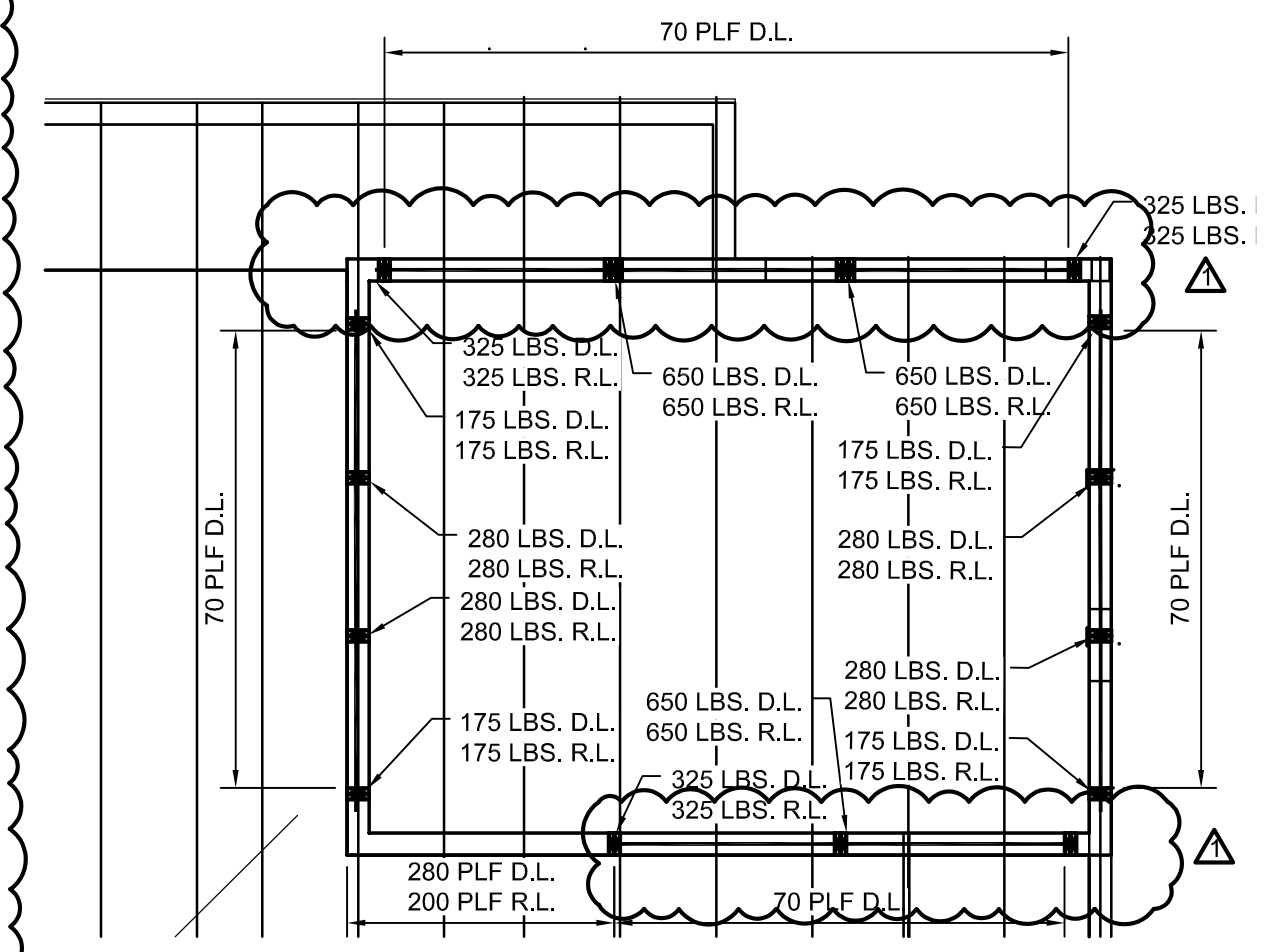
4 ROOF SECTION
 S302 3/4" = 1'-0"



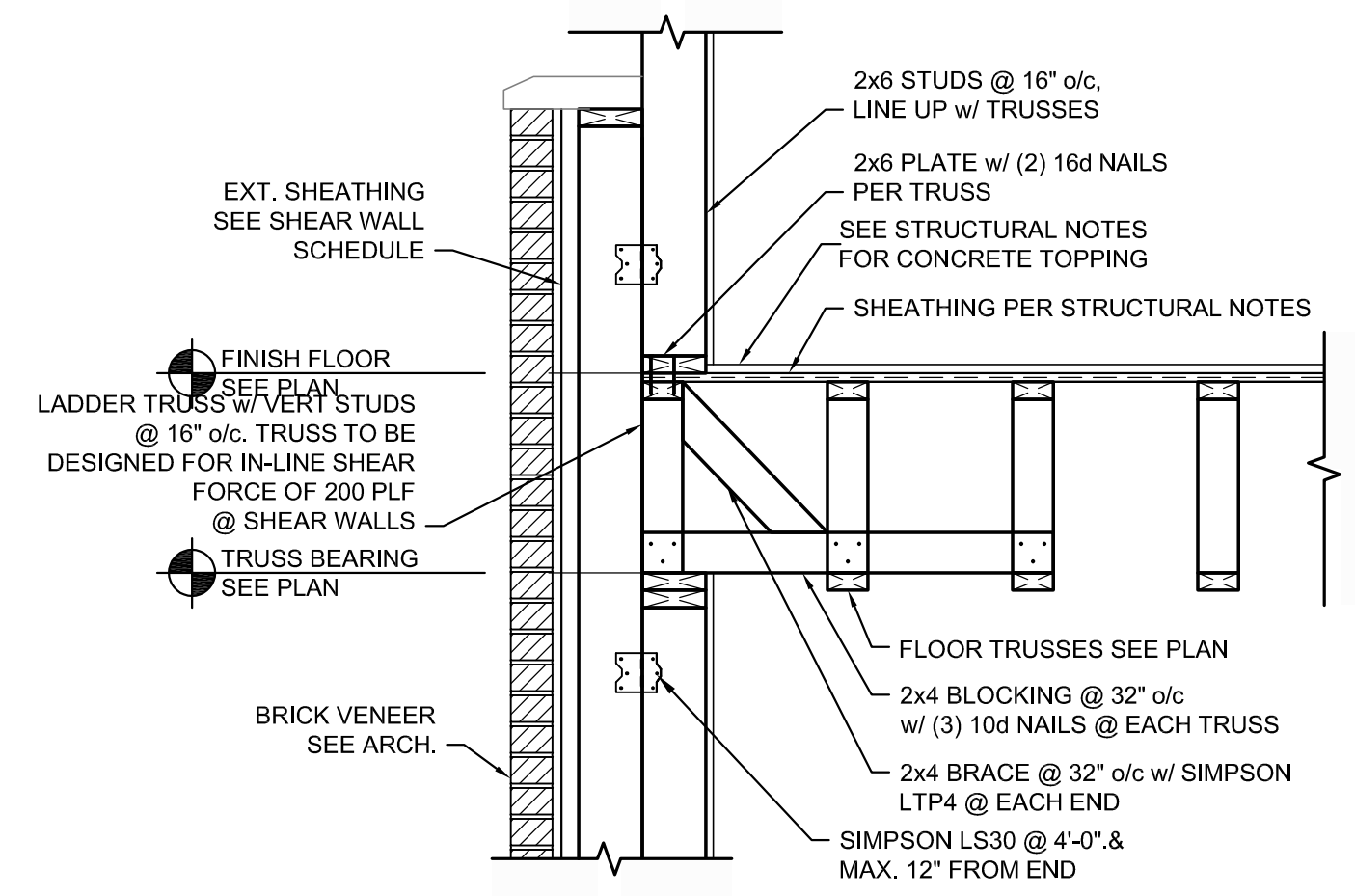
5 ROOF SECTION
 S302 3/4" = 1'-0"



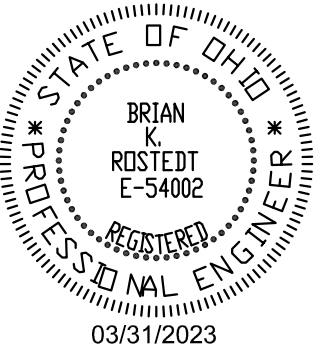
6 ROOF SECTION
 S302 3/4" = 1'-0"



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



8 TRUSS BEARING DETAIL
 S302 3/4" = 1'-0"



REVISIONS
 BULLETIN 1 07/17/2023

DETAILS AND SCHEDULES
GERMANTOWN CROSSING
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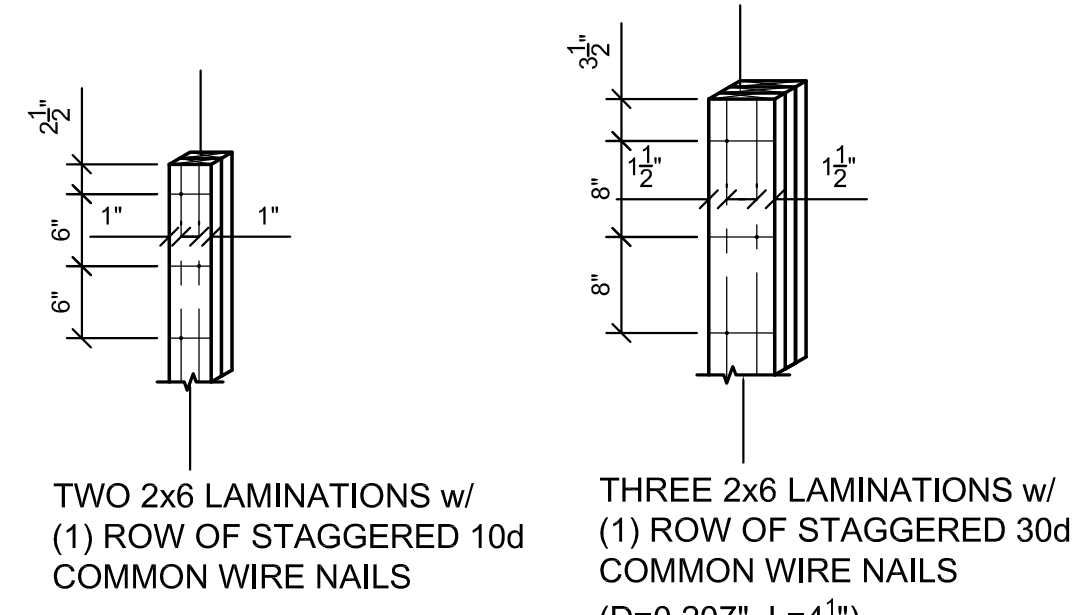
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DATE
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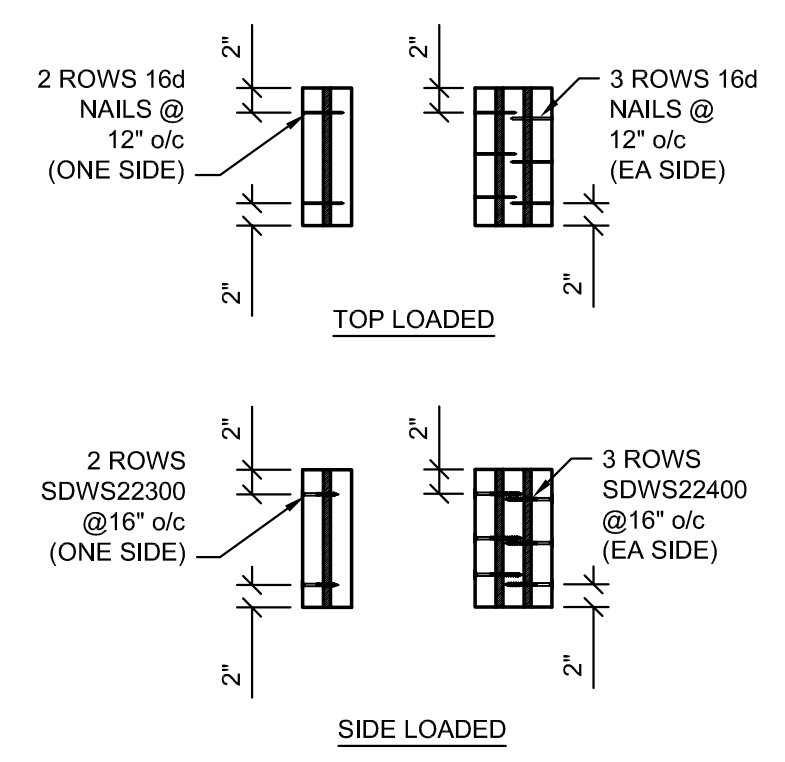
PROJECT NUMBER

S303

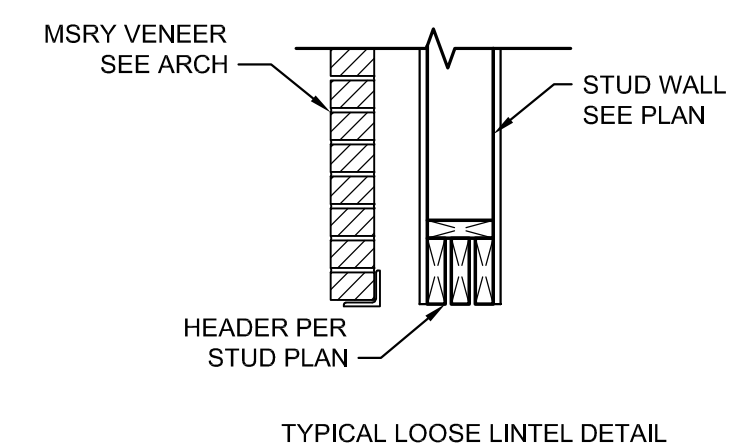
DRAWING NUMBER



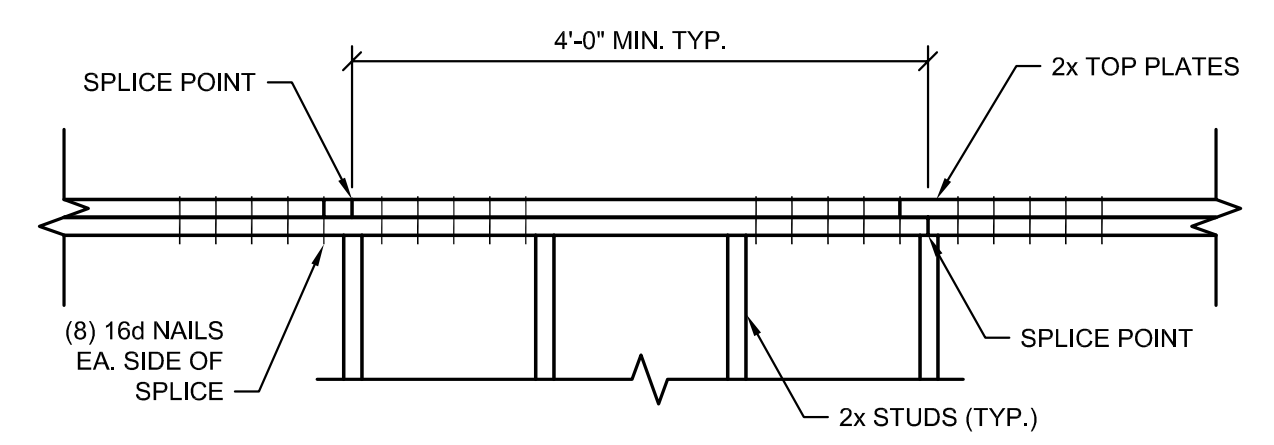
1 POST NAILING SCHEDULE
 S303 1" = 1'-0"



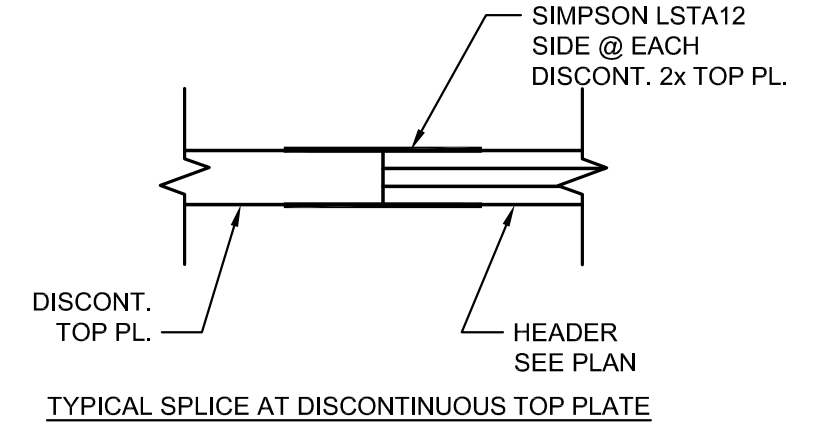
2 HEADER CONNECTIONS
 S303 3/4" = 1'-0"



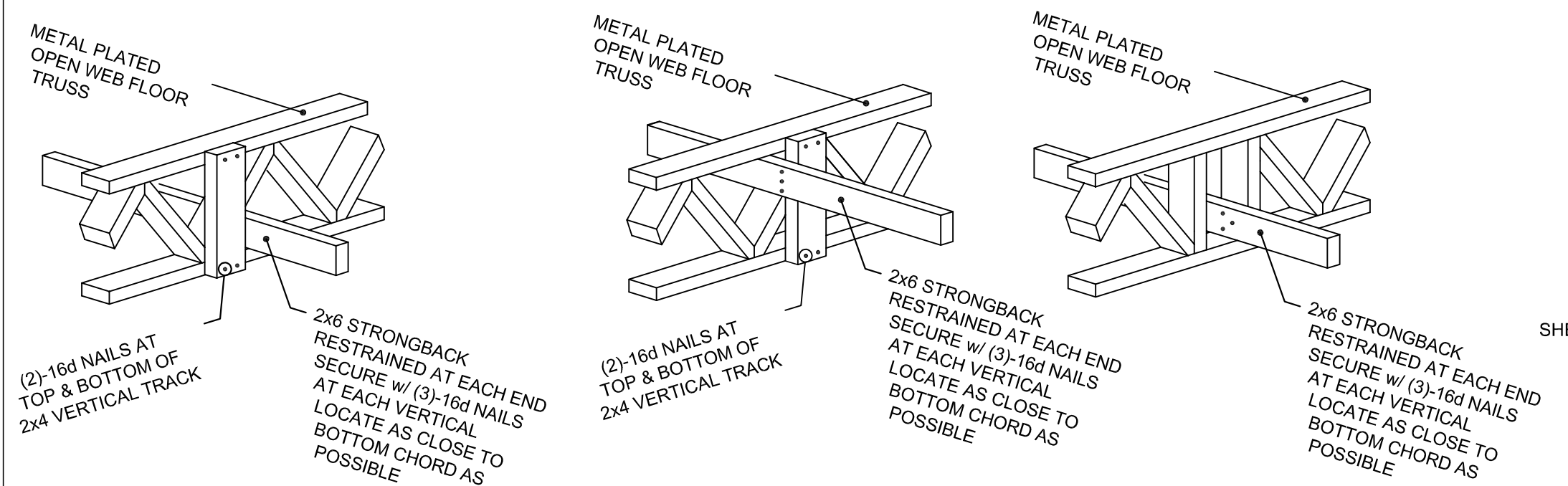
2 SECTION
 S303 3/4" = 1'-0"



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

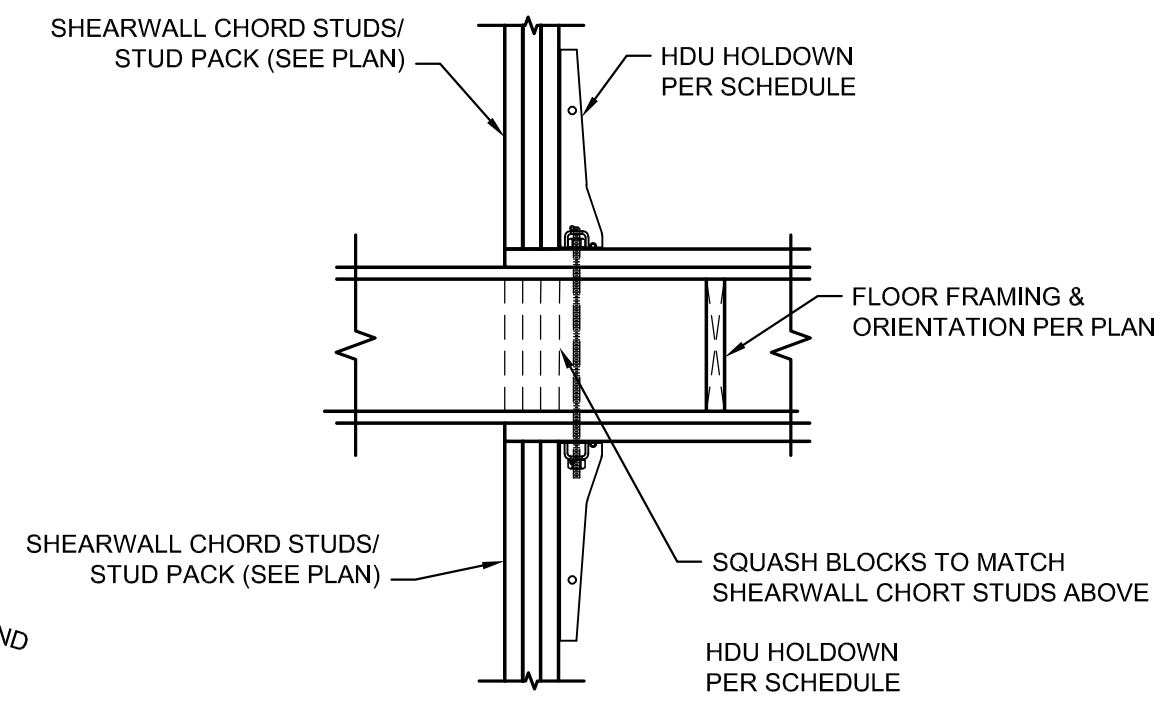


2 SECTION
 S303 3/4" = 1'-0"

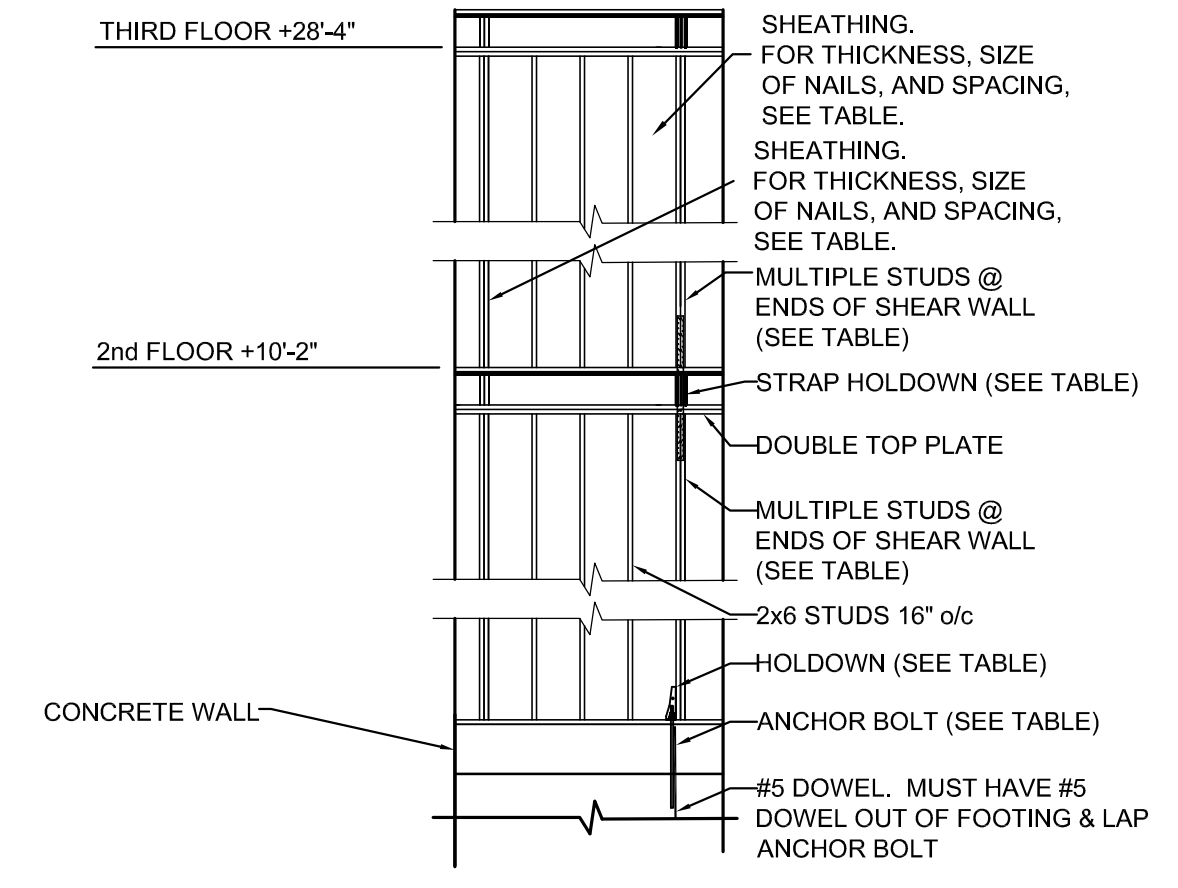


STRONGBACKS AT 10'-0" o.c. (MAX.) ARE REQUIRED TO MAINTAIN FIRE ASSEMBLIES.

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



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



2 SHEAR WALL LAYOUT
 S303 3/4" = 1'-0"

WOOD HEADER SCHEDULE				
MARK	LEVEL	HEADER SIZE	BEARING STUDS	KING STUDS
H-1	1-3 EXTERIOR	(3)-2x8	(1)-2x6	(1)-2x6
H-2	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	-
H-5	1-3 INTERIOR	(2)-1.75x11.25 LVL	(2)-2x4	(1)-2x4
H-6	1-3 EXTERIOR	(3)-1.75x9.25 LVL	(2)-2x6	(2)-2x6
H-7	1-3 EXTERIOR	(3)-1.75x11.25 LVL	(2)-2x6	(2)-2x6

WOOD STUD SCHEDULE			
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.

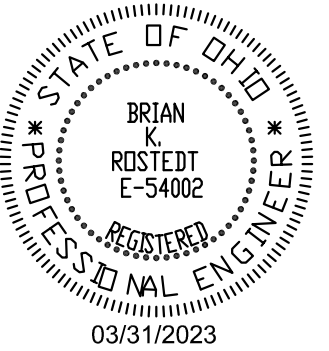
BEAM SCHEDULE				
MARK	SIZE	BEARING STUD	HANGER	CAP PLATE
B-1	(2)-2x12	-	-	-
B-2	(3)-2x12	-	-	-
B-3	(2)-1.75x11.25" LVL	(1) 2x6	-	-
B-4	(2)-1.75x14" LVL	(2) 2x6	-	-
B-5	(3)-1.75x11.25" LVL	(2) 2x6	-	-
B-6	(3)-1.75x9.25" LVL	(2) 2x6	-	-
B-7	(3)-2x8	(2) 2x6	LUS28-2	LCE4

STEEL LOOSE LINTEL SCHEDULE		
SPAN LIMITS	SIZE	BEARING
0'-0" TO 1'-0"	3/4" PLATE	4"
1'-1" TO 4'-0"	L3x3x3/4	6"
4'-1" TO 5'-0"	L4x3x3/4 LLV	0'-6"
5'-1" TO 6'-0"	L5x3x3/4 LLV	0'-6"
6'-1" TO 8'-8"	(1) L6x3x3/4 LLV	0'-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.

SHEAR WALL SCHEDULE														
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 3/8" 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 3/8" 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	-	-
SW2	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.



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STAIR SECTIONS AND DETAILS
GERMANTOWN CROSSING
DAYTON OHIO



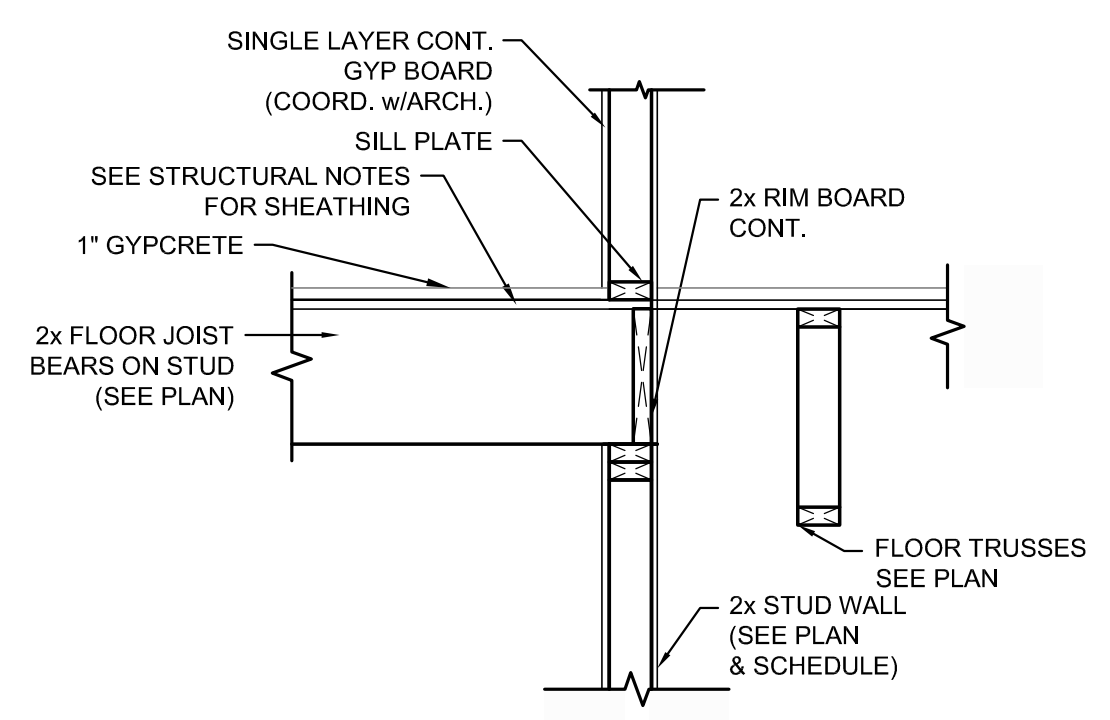
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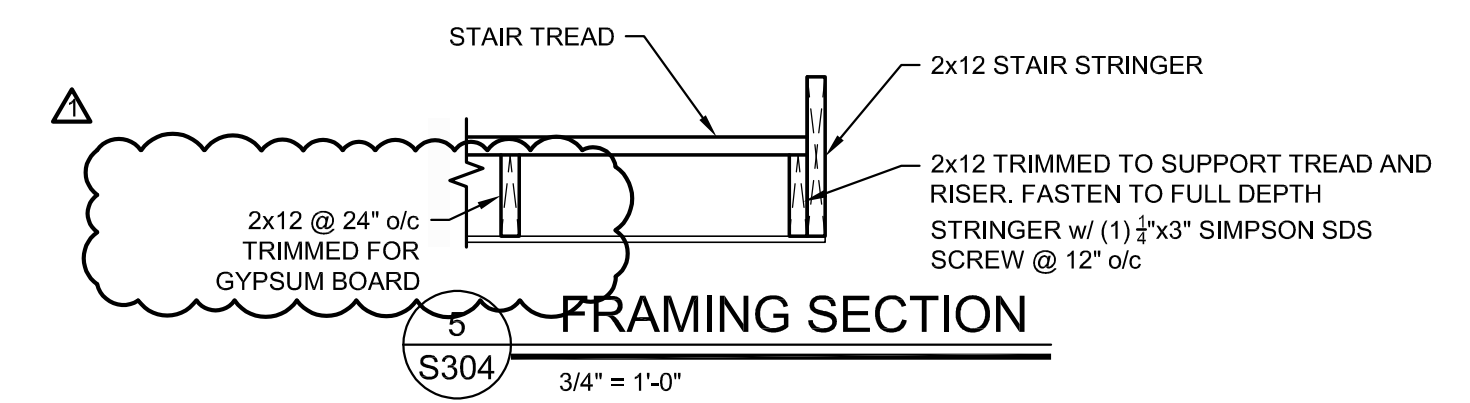
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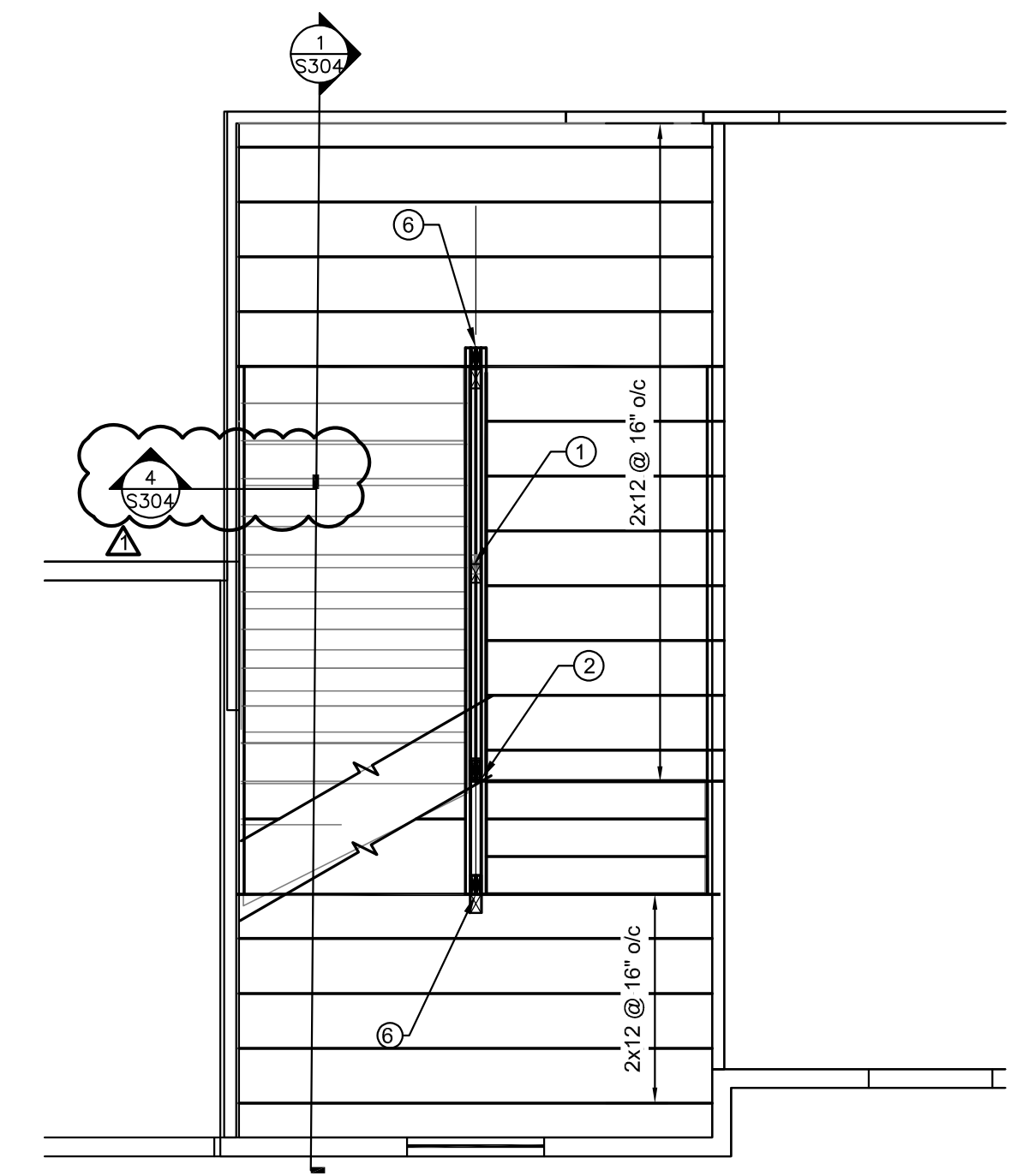
S304
 DRAWING NUMBER



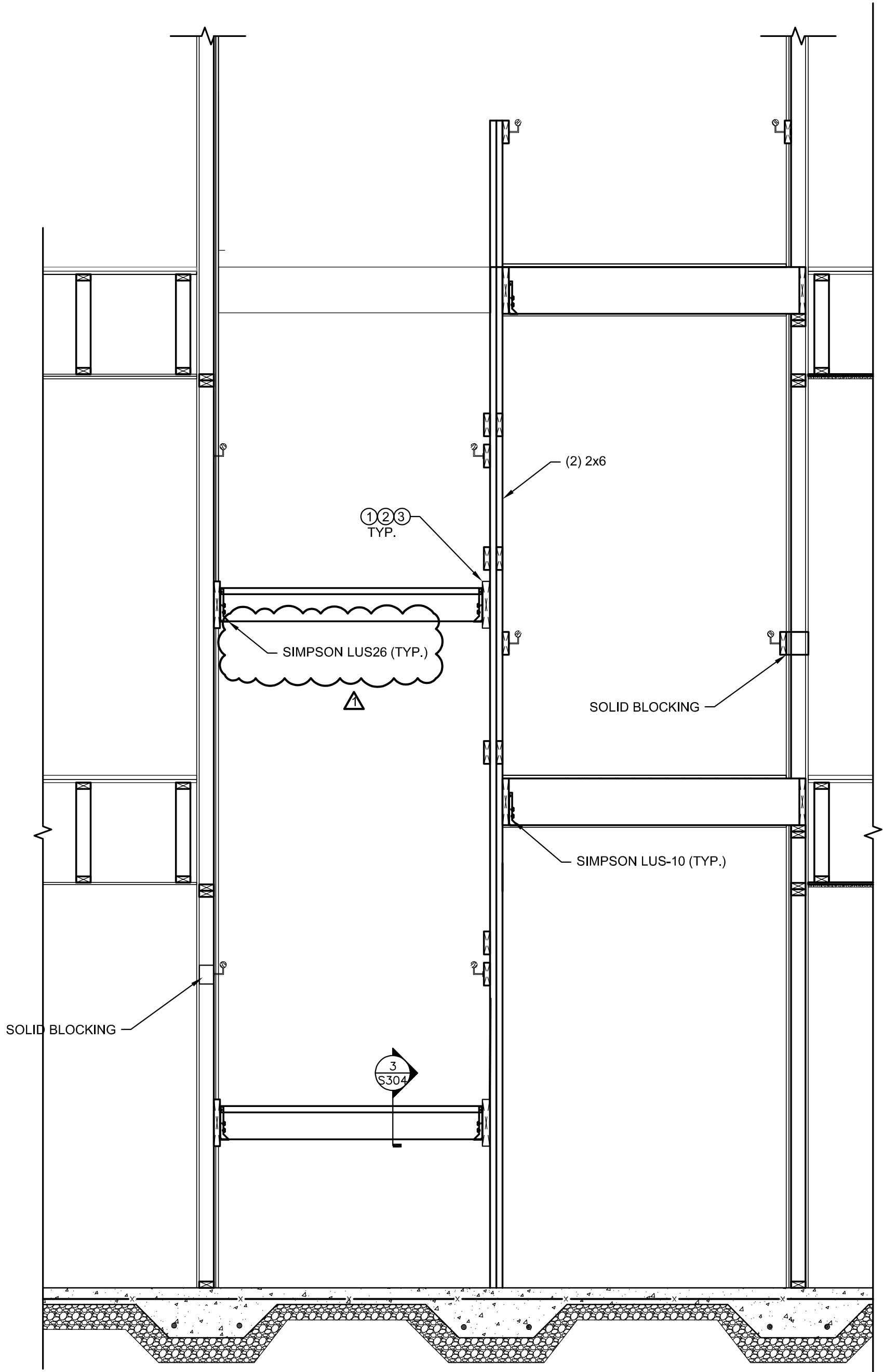
4 FRAMING SECTION
 S304 3/4" = 1'-0"



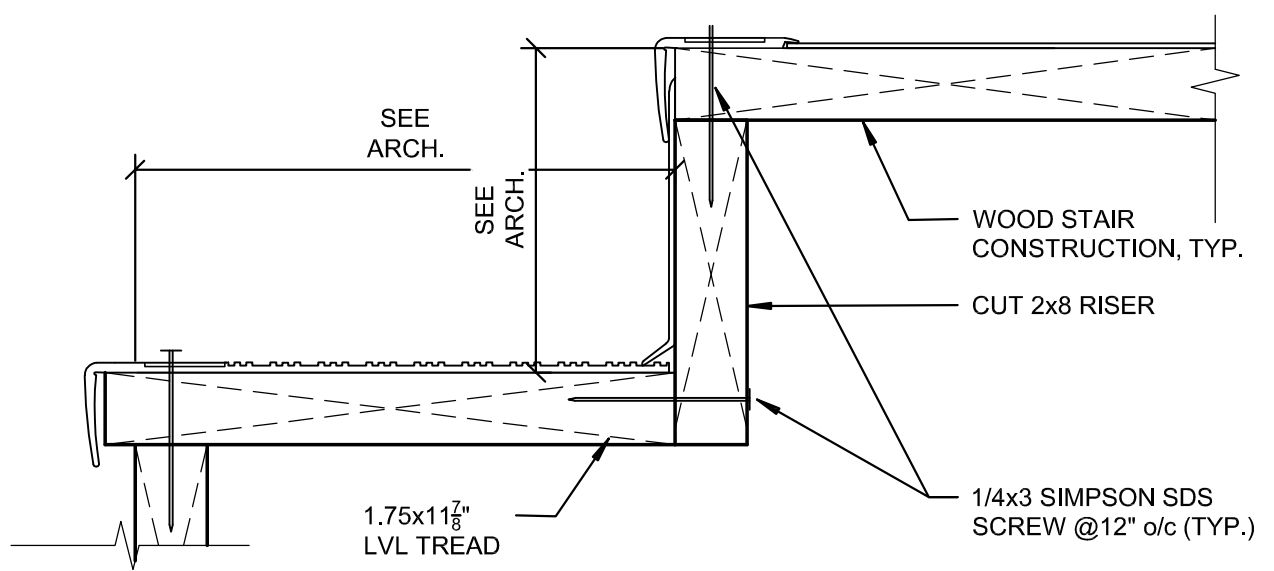
5 FRAMING SECTION
 S304 3/4" = 1'-0"



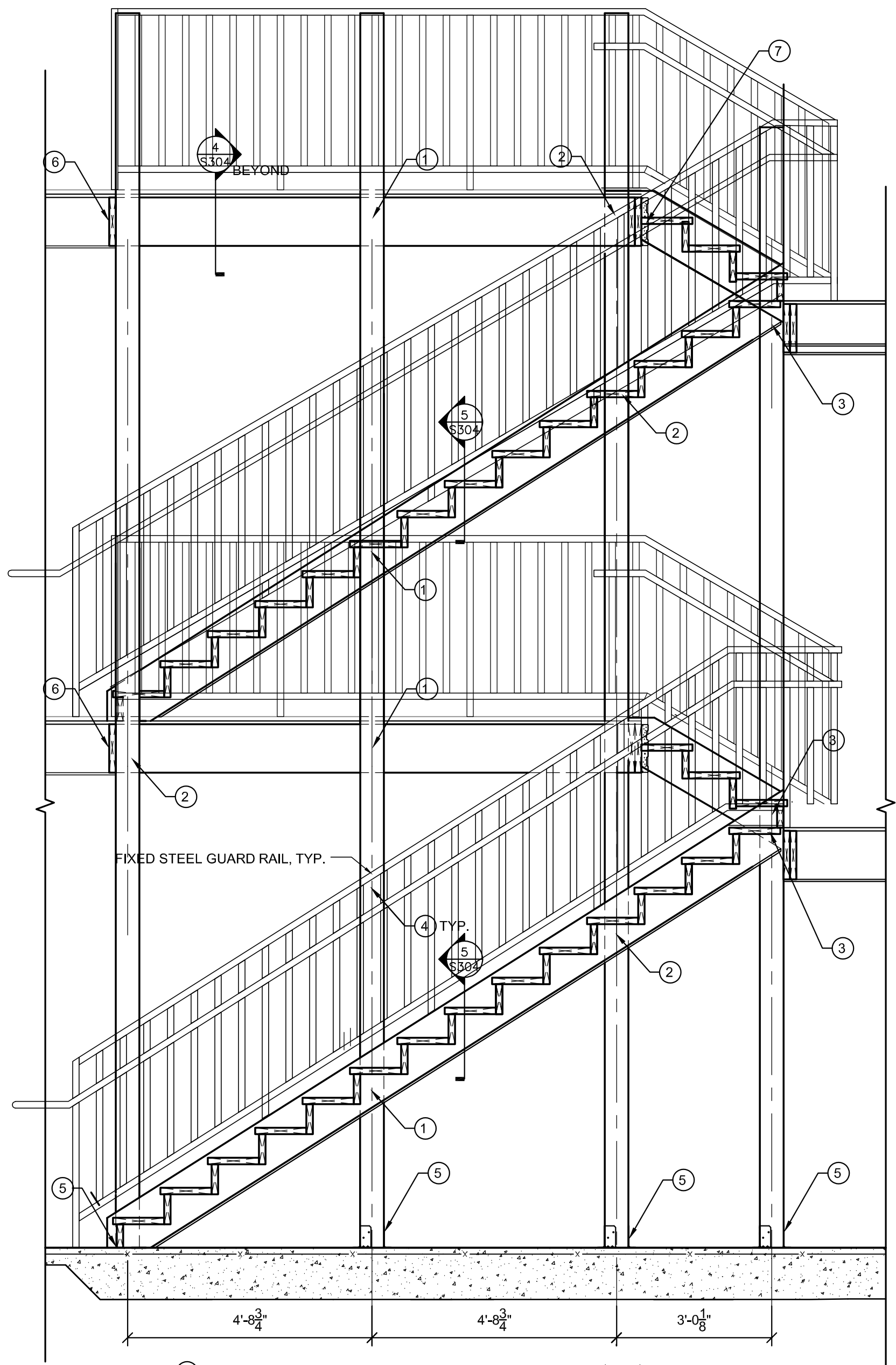
6 STAIR DETAIL
 S304 1/4" = 1'-0"



2 STAIR SECTION
 S304 1/2" = 1'-0"



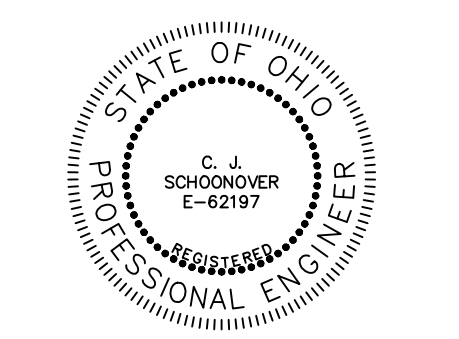
3 STAIR TREAD AND NOSING
 S303 3" = 1'-0"



- 1 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (6) 3/8" x 3 1/2" SIMPSON SDS SCREWS
- 2 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (5) 3/8" x 3 1/2" SIMPSON SDS SCREWS
- 3 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (2) 3/8" x 3 1/2" SIMPSON SDS SCREWS
- 4 FASTEN PLATE TO POST w/ (3) 12d NAILS
- 5 (2) SIMPSON RPBZ POST BASE w/ 3/8" SIMPSON TITEN HD ANCHOR
- 6 FASTEN JOIST TO POST w/ (3) 12d NAILS
- 7 SIMPSON LSC HANGER

-DELEGATED STAIR ENGINEERS IS RESPONSIBLE FOR THE CONNECTION OF THE RAIL TO WOOD POSTS.

1 STAIR SECTION
 S304 1/2" = 1'-0"



Chief Schoonover 3/31/23
SIGNATURE DATE

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PLBG NOTES, LEGENDS, SCHEDULES
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PLUMBING FIXTURE SCHEDULE table with columns: MARK No., DESCRIPTION, MANUFACTURER, MODEL, SIZE, TRIM, DRAINAGE (W.P., V.P., CW, HW), CARRIER, REMARKS. Includes items like Water Closet (ADA), Lavatory, Double Bowl Sink, Shower (ADA), Bath Tub, Mop Basin, Tub Sink, Washer Box, Electric Water Cooler.

NOTES:
NOTE: ALL PLUMBING FIXTURES SHALL BE WATERSENSE CERTIFIED.
#1 "ZURN" Z5972-COMB CLOSET BOLT AND WAX RING KIT.
#2 "ZURN" Z5965SS-EL ELONGATED CLOSED FRONT TOILET SEAT WITH COVER AND STAINLESS STEEL CHECK HINGE.
#3 "MOEN" CHATEAU 7430 SINGLE HANDLE 1.5 GPM KITCHEN FAUCET WITH SIDE SPRAY. FAUCET TO BE WATER SENSE CERTIFIED, ADA COMPLIANT.
#4 "POWERS" NO. LRLM495-ASSE (1070 COMPLIANT) THERMOSTATIC POINT OF USE MIXING VALVE SET AT 110 DEG. F. PROVIDE WITH INTEGRAL CHECK VALVES AND TEMPERATURE ADJUSTMENT WITH LOCK SCREW.
#5 "MOEN" CHATEAU L4601 SINGLE HANDLE 1.5 GPM MAX LAVATORY FAUCET. FAUCET TO BE WATER SENSE CERTIFIED.
#6 "MOEN" T2903 1.75 GPM ADA COMPLIANT TUB-SHOWER TRIM WITH 62370 (CO) PRESSURE BALANCING MIXING VALVE WITH 1/4 TURN STOPS. SHOWER VALVE AND HEAD TO BE WATER SENSE CERTIFIED.
#7 "TAS" S-9665-8STR SERVICE SINK FAUCET WITH VACUUM BREAKER AND PAL HOOK.
#8 "MOEN" T4998 TWO HANDLE 1.5 GPM UTILITY SINK FAUCET WITH LEVER STYLE HANDLES.
#1 "CHICAGO FAUCETS" NO. 337 OFFSET GRID STRAINER
#2 "AMERICAN STANDARD" NO. 2411.015 DRAIN ASSEMBLY (1-1/4" TAILPIECE)
#3 "PROFLO" W&O HALF KIT PFW0350- SCH40 WITH CHROME PLATED TRIM
c1.1-1/4" CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT
c2.1-1/2" CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT
d1 "ZURN" Z8800-CR STANDARD STOP WITH FLEXIBLE CLOSET RISER.
d2 "McGUIRE" NO. ST09L 1/4 TURN LOOSE KEY ANGLE STOPS, WITH 3/8" O.D. BRAIDED STAINLESS STEEL SUPPLY RISERS (FIELD CUT TO LENGTH) AND WALL ESCUTCHEONS
d3 "McGUIRE" ANTI-MICROBIAL PROWRAP PIPE WRAP (INSTALL ON ALL EXPOSED WASTE AND SUPPLY PIPING, FITTINGS, AND VALVES)
d4 "PROFLO" PFS260 F CHROME STRAIGHT SHOWER ROD WITH PFC71F DECAST EXPANDITE ROD HOLDER KIT
d5 "FIAT" NO. 832-AA HOSE AND HOSE BRACKET.

BACKFLOW PREVENTER SCHEDULE table with columns: NO., MAKE, MODEL, BFP SIZE, BFP MAX GPM, MAX PRESSURE LOSS (PSIG), MAX WORKING PRESSURE (PSIG), RATED GPM FLOW (PSIG), SERVICE, REMARKS. Includes item BP-1 ZURN 375.

PLUMBING EQUIPMENT SCHEDULE table with columns: MARK NO., DESCRIPTION, MAKE / MODEL / SIZE, REMARKS. Includes items like Domestic Water Heater, Digital Master Mixing Valve, Domestic Hot Water Expansion Tank, ELEVATOR SUMP PUMP WITH CONTROL PANEL AND REMOTE ALARM, Domestic Hot Water Recirculation Pump.

DRAINS AND CLEANOUTS SCHEDULE table with columns: NO., DESCRIPTION, MAKE/MODEL/SIZE, REMARKS. Includes items like Floor Drain, Flush with Floor Cleanout, Flush with Wall Cleanout.

PLUMBING SYMBOL LEGEND table with columns: ABBREVIATION, SYMBOL, DESCRIPTION. Includes symbols for US, SAN, UST, PD, DCW, DHW, RDHW, Gate Valve, Gas Cook, Globe Valve, Ball Valve, Balance Valve, Check Valve, Butterfly Valve, OS&Y Gate Valve, Concentric Reducer/Inchreaser, Strainer with Blowdown, Union, Flanged Union, Expansion Joint, Pipe Anchor, Pipe Guide, Pipe Sleeve, Vibration Connection, Pete's Test Plug, Manual Air Vent, Automatic Air Vent with Ball Valve, Double Check Backflow Preventer, Reduced Pressure Backflow Preventer with Air Gap Device and Drain, Companion Flange, Cleanout, Flush with Floor Cleanout, Frostproof Sill Cook / Wall Hydrant, Faucet or Hose Bibb, Sanitary Floor Drain, Acid Floor Drain, Roof Drain, Area Drain (Storm), Downspout, Rain Leader, Pressure Gauge with Gauge Cock (Water), Pressure Gauge with Ball Valve (Water), Plumbing Fixture, Plumbing Equipment, Electrical Contractor, Fire Suppression Contractor, General Contractor, HVAC Contractor, Plumbing Contractor, Kitchen Equipment Consultant, Access Door, Above Finished Floor, Finished Floor Elevation, Manufacturer, Normally Open, Normally Closed, Typical, Indicates Tie into Existing, Indicates Remove to Point for Reconnection, Indicates Remove to Point and Cap.

SHOCK ABSORBER SCHEDULE table with columns: NO., DESCRIPTION, REMARKS. Includes items like Shock Absorber with different fixture capacities.

PLUMBING NEW WORK GENERAL NOTES table with 27 numbered notes covering general requirements for plumbing work, including fixture specifications, coordination with other trades, and safety protocols.

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Chief Engineer
SIGNATURE DATE 3/31/23

REVISIONS

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FIRST FLOOR PLAN - PLUMBING
GERMANTOWN CROSSING
DAYTON OHIO



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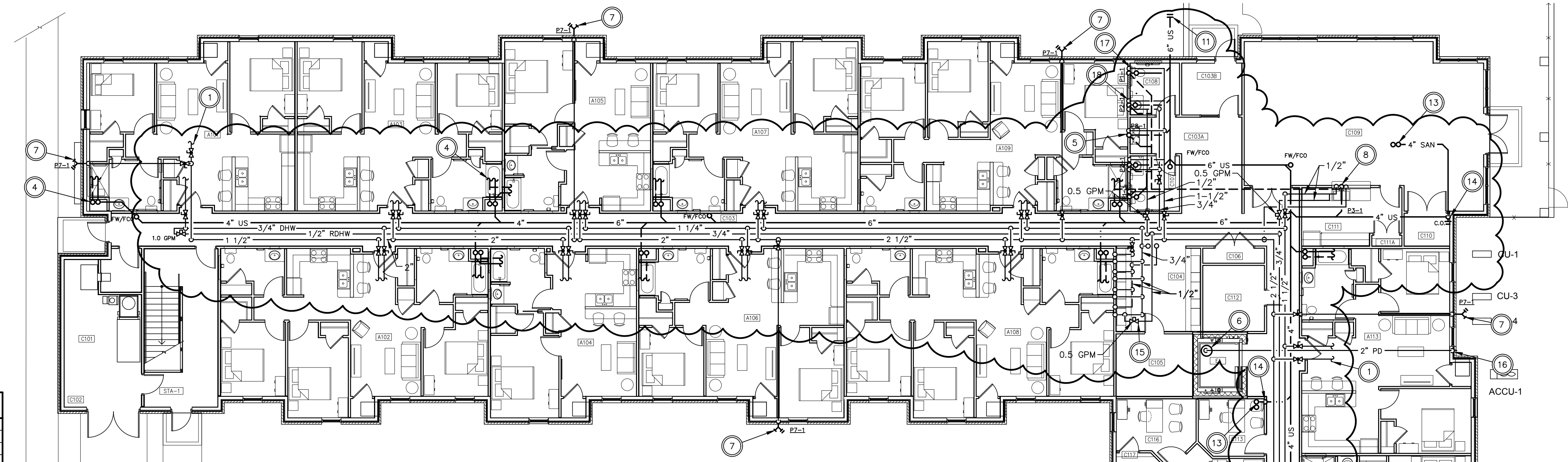
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PROJECT NUMBER

P101

DRAWING NUMBER



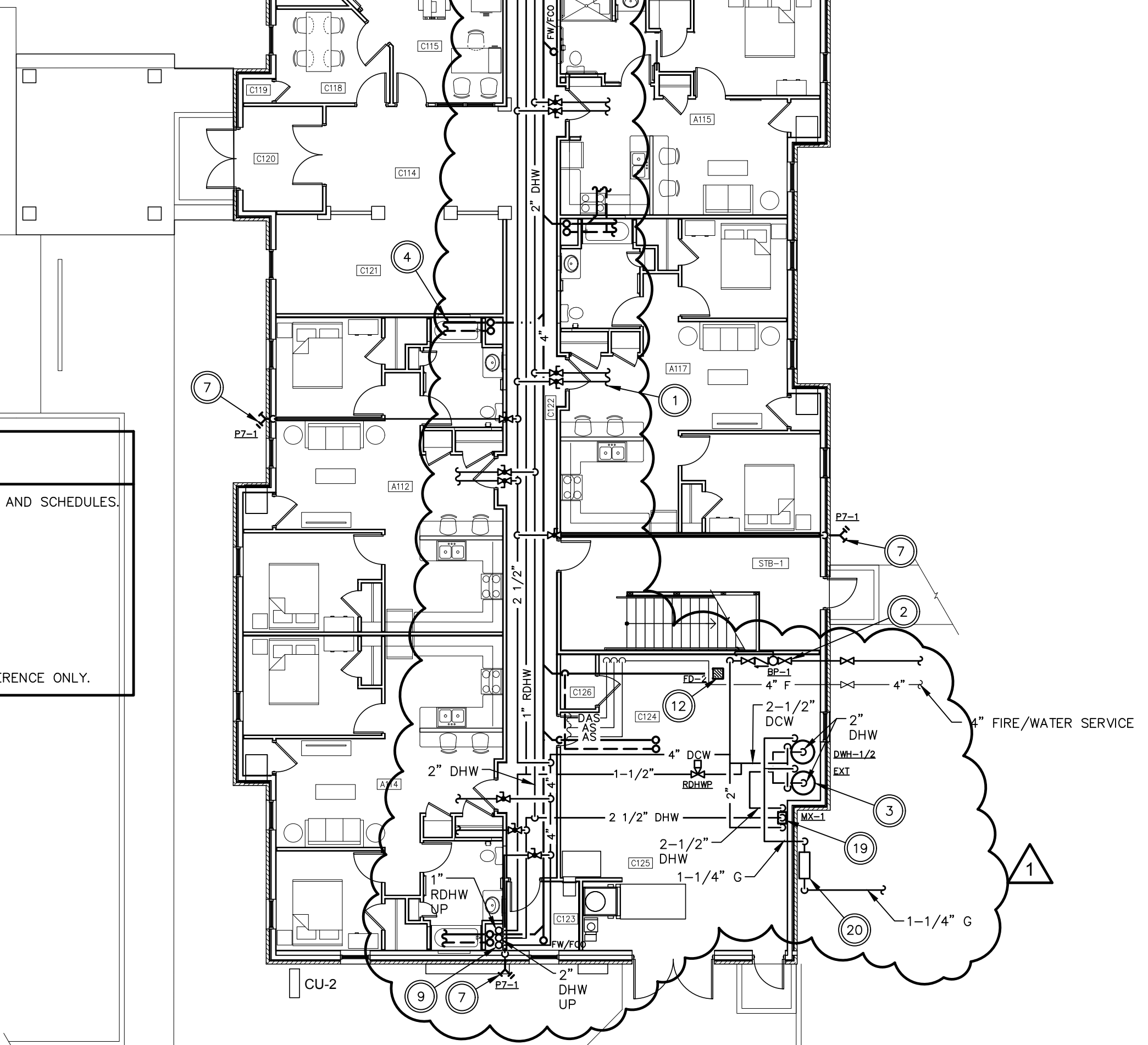
ROOM LEGEND

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

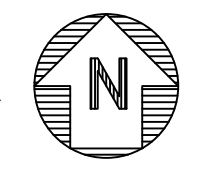
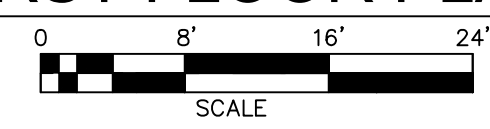
- CODED NOTES**
- SEE SHEET SET P20X FOR CONTINUATION TYPICAL.
 - WATER SERVICE ENTRANCE, SEE "WATER SERVICE ENTRANCE SCHEMATIC" FOR DETAILS.
 - DUPLEX DOMESTIC HOT WATER HEATERS. SEE "DOMESTIC WATER HEATER SCHEMATIC".
 - 4" SAN AND 3" VENT STACK. TIE VENT PIPING INTO SANITARY BELOW GRADE. INSTALL CLEANOUT 1' A.F.F. FOR SANITARY STACK. SEE SHEET SERIES P20X FOR CONTINUATION. TYPICAL.
 - 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.
 - 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.
 - 1/2" DCW PIPING TO HOSE BIBB P7-3.
 - 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.
 - DCW/DHW/RDHW RISERS.
 - 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.
 - 6" SANITARY SERVICE. END 6" US PIPING 5' OUTSIDE OF BUILDING WITH INVERT ELEVATION = 996' P.C. TO MAKE CONNECTION TO CLEANOUT PROVIDED BY SITE CONTRACTOR. INSTALL MECHANICAL SLEEVE AT FOUNDATION PENETRATION. COORDINATE INSTALLATION WITH G.C.
 - 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.
 - 4" SAN AND 3" VENT STACK. TIE 3" VENT INTO BASE OF STACK ABOVE CEILING.
 - 4" SAN DOWN TO BELOW GRADE WITH CLEANOUT 1' A.F.F.
 - BALANCE TO 0.5 GPM.
 - 2" PD PIPING TO PENETRATE BUILDING LOW ON WALL. SEE "DOWNSPOUT NOZZLE DETAIL".
 - 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.
 - 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.

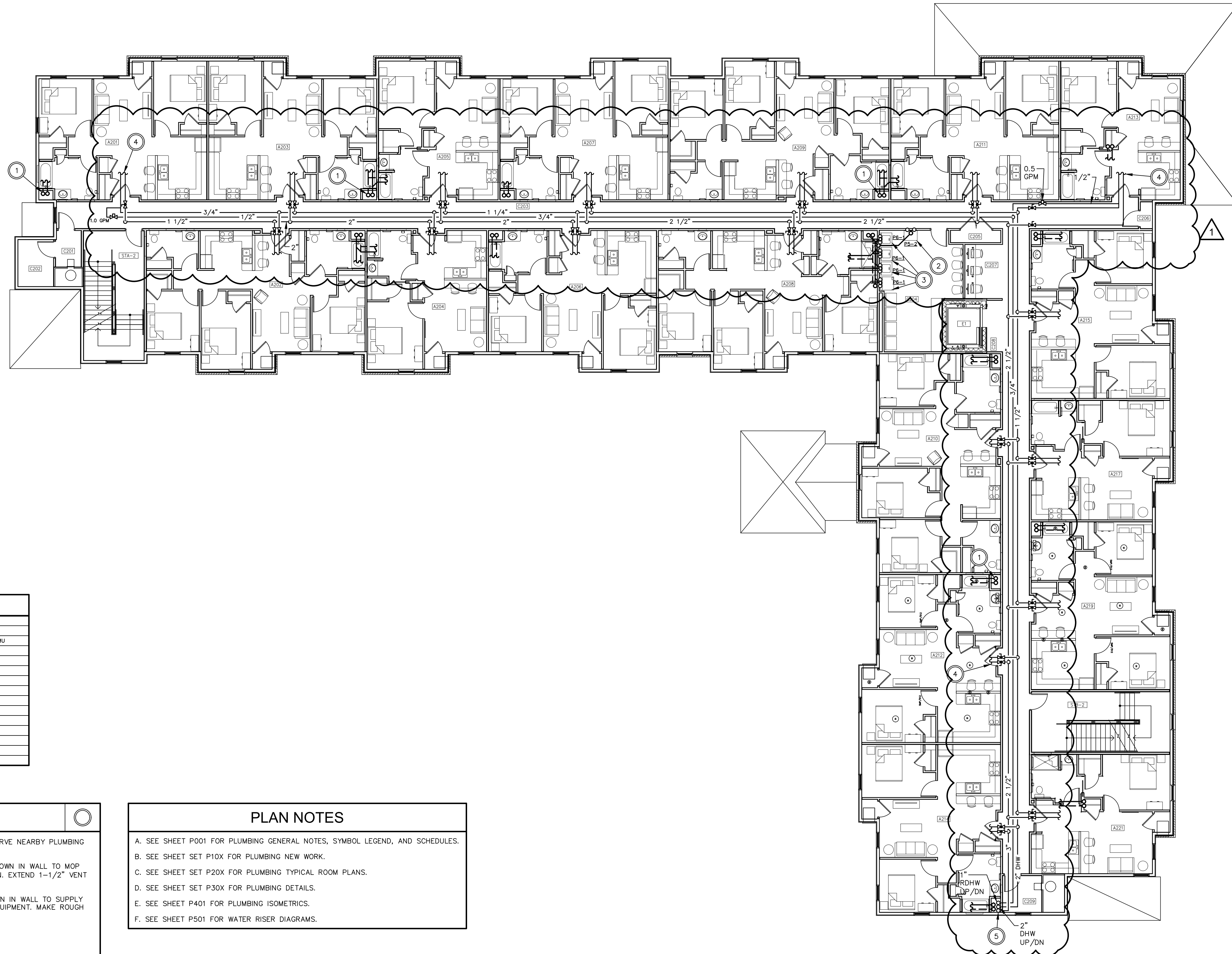
- CODED NOTES**
- INSTALL NEW DIGITAL MASTER MIXING VALVE. EXTEND 2-1/2" DHW TO SERVE BUILDING.
 - NEW GAS SERVICE. EXTEND 1-1/4" G INTO BUILDING AND CONTINUE TO SERVE DOMESTIC WATER HEATERS. COORDINATE WITH SITE/CIVIL CONTRACTOR AND GAS COMPANY (VECTREN ENERGY) FOR FINAL METER AND PIPING LOCATION.

- 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.



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. DCW/DHW/RDHW RISERS.

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



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SECOND FLOOR PLAN - PLUMBING
GERMANTOWN CROSSING
DAYTON OHIO

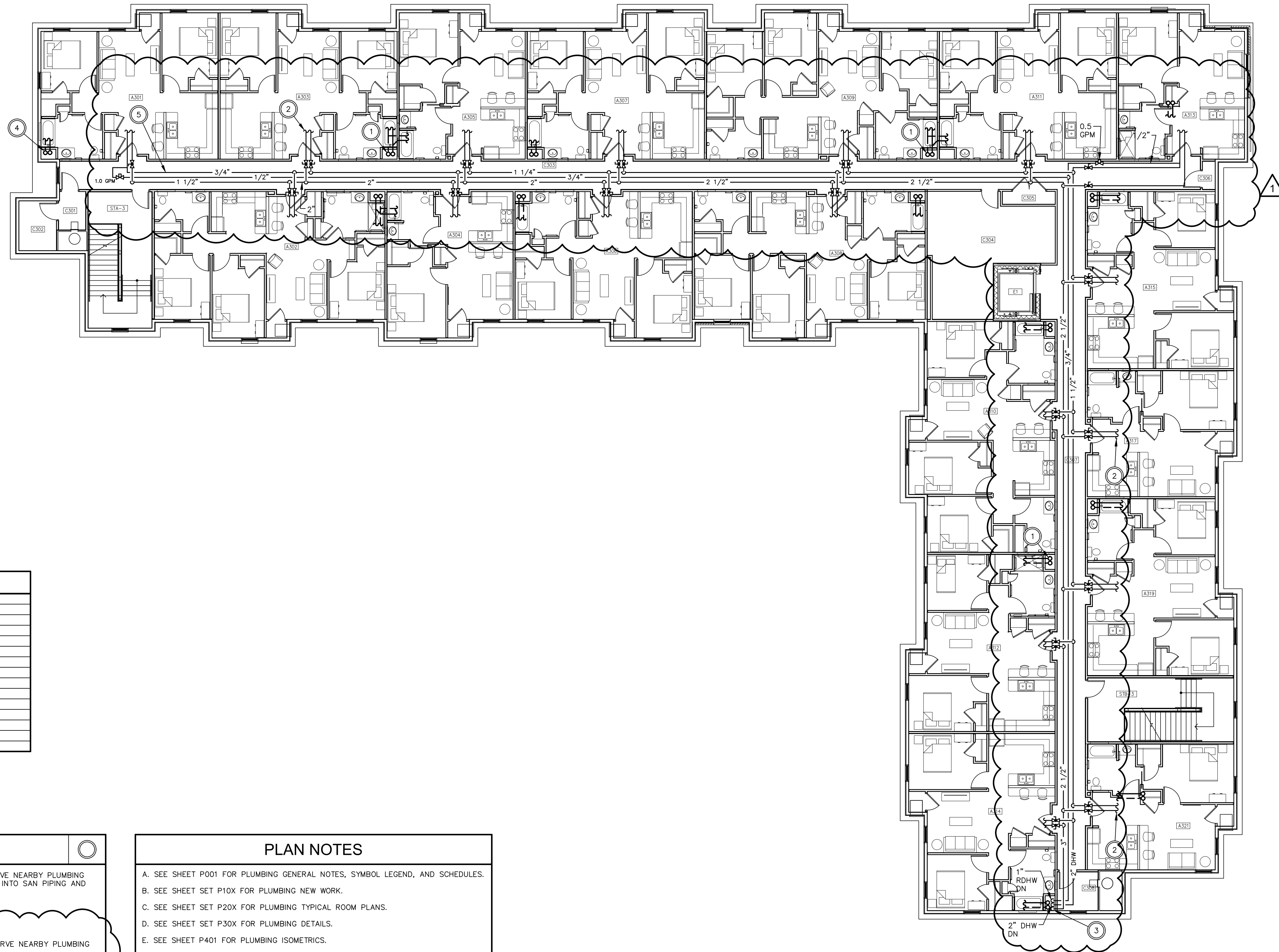


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DRAWING NUMBER



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. DCW/DHW/RDHW RISERS.
○	4. 4" SANITARY AND 3" VENT PIPING UP FROM BELOW TO SERVE NEARBY PLUMBING FIXTURES. SEE SHEET SET P20X FOR CONTINUATION. TYPICAL.
○	5. INSTALL RECIRC AQUASTAT TEMPERATURE SENSOR IN APPROXIMATELY THIS LOCATION. EXTEND CONTROL WIRING BACK TO PUMP FOR CONTROL.

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



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THIRD FLOOR PLAN - PLUMBING

GERMANTOWN CROSSING
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PROJECT NUMBER

P103

DRAWING NUMBER

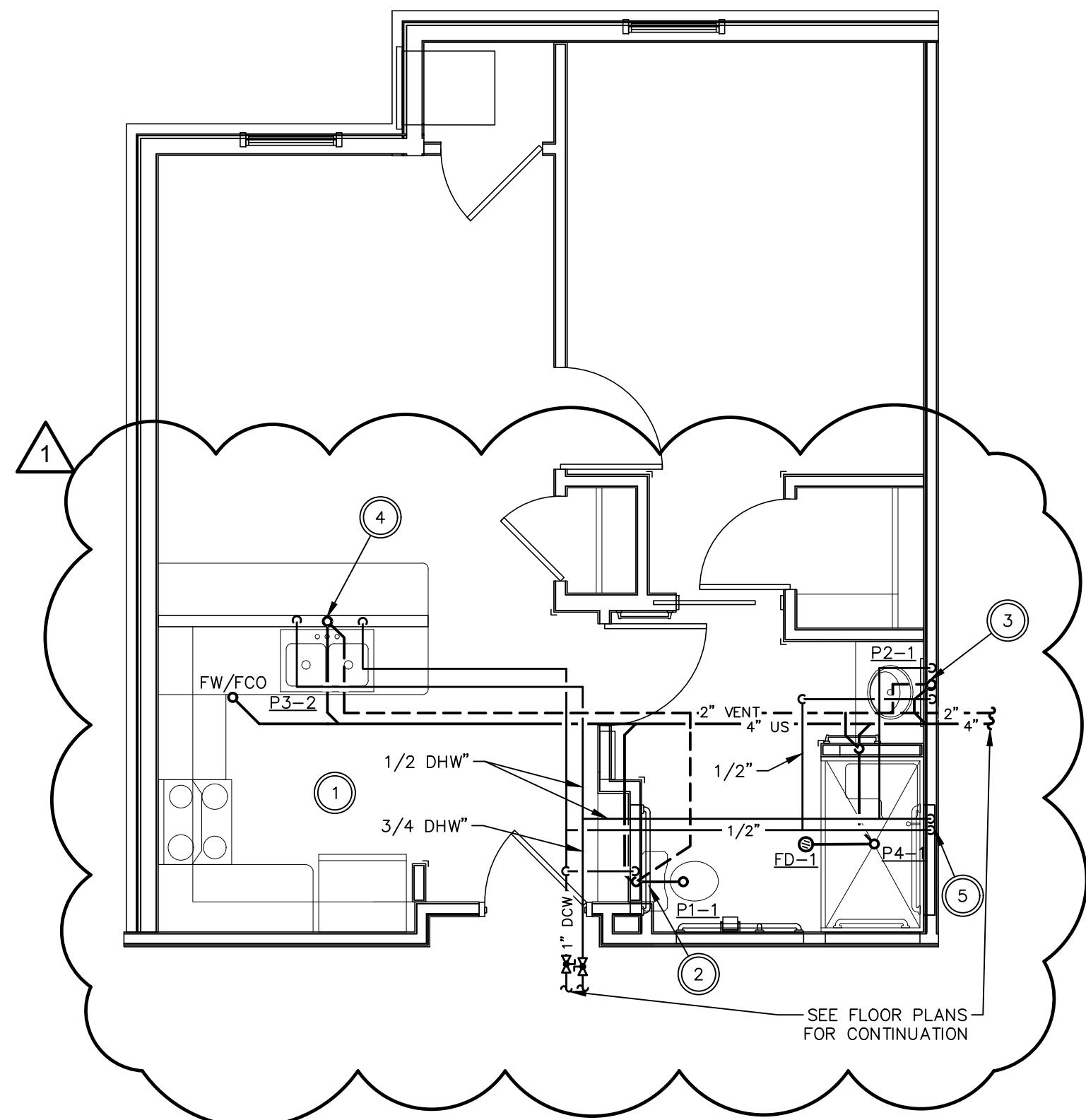
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PLAN NOTES	
A.	SEE SHEET P001 FOR PLUMBING GENERAL NOTES, SYMBOL LEGEND, AND SCHEDULES.
B.	SEE SHEET SET P10X FOR PLUMBING NEW WORK.
C.	SEE SHEET SET P20X FOR PLUMBING TYPICAL ROOM PLANS.
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E.	SEE 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.

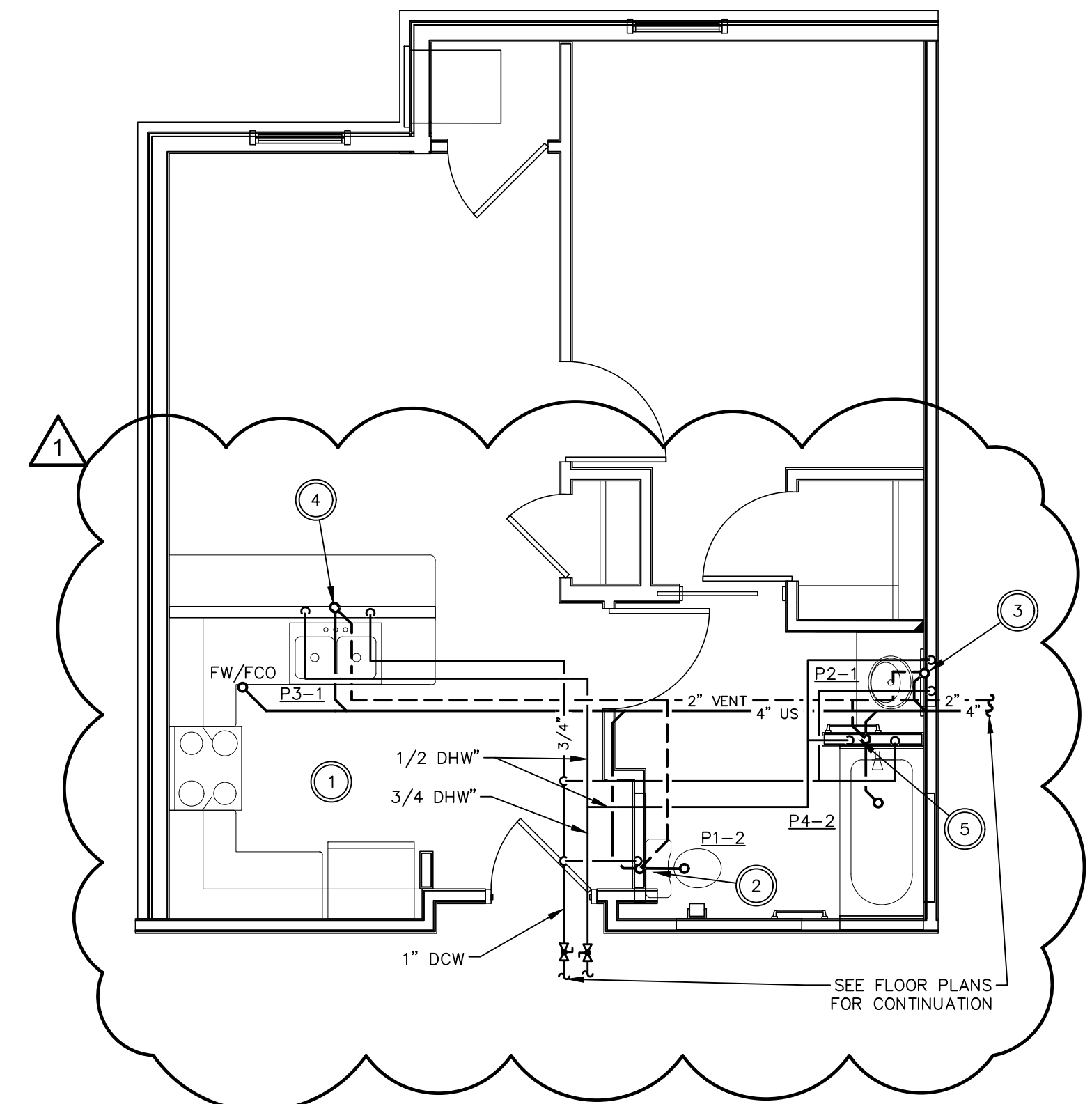
STATE OF OHIO
 C. J. SCHONOVER
 E-62197
 PROFESSIONAL ENGINEER
Chris Schoner 3/31/23
 SIGNATURE DATE

REVISIONS	
▲	BULLETIN 01 - 07/17/2023

CODED NOTES	
1	DHW STORAGE FROM BRANCH TAKEOFF IN CORRIDOR TO FURTHEST FIXTURE SHALL BE LIMITED TO 1/2 GALLON. CONTRACTOR SHALL PROVIDE FINAL PIPE LAYOUT WITH DIMENSIONS FOR SUBMISSION AND REVIEW BY A/E.
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.



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

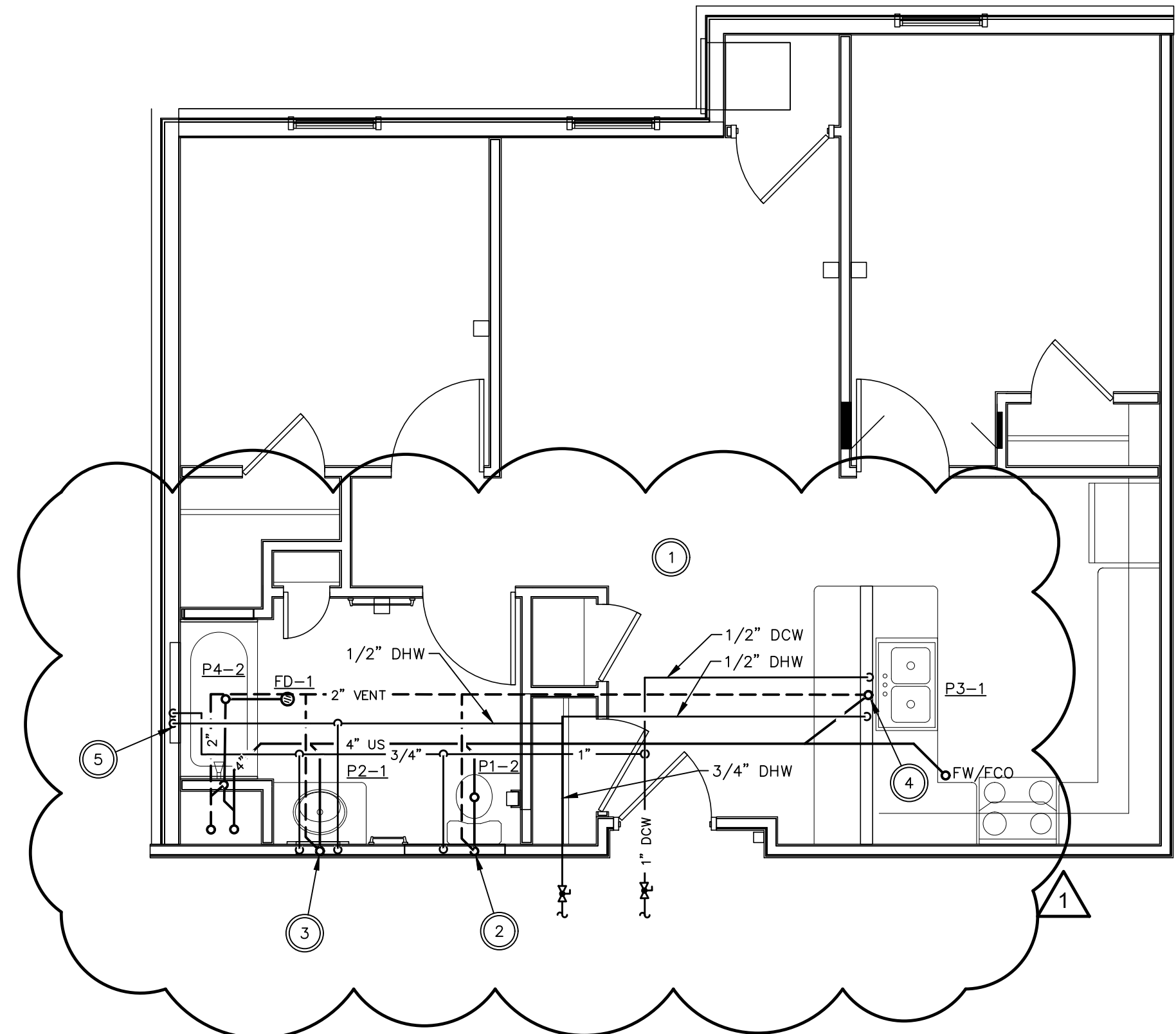


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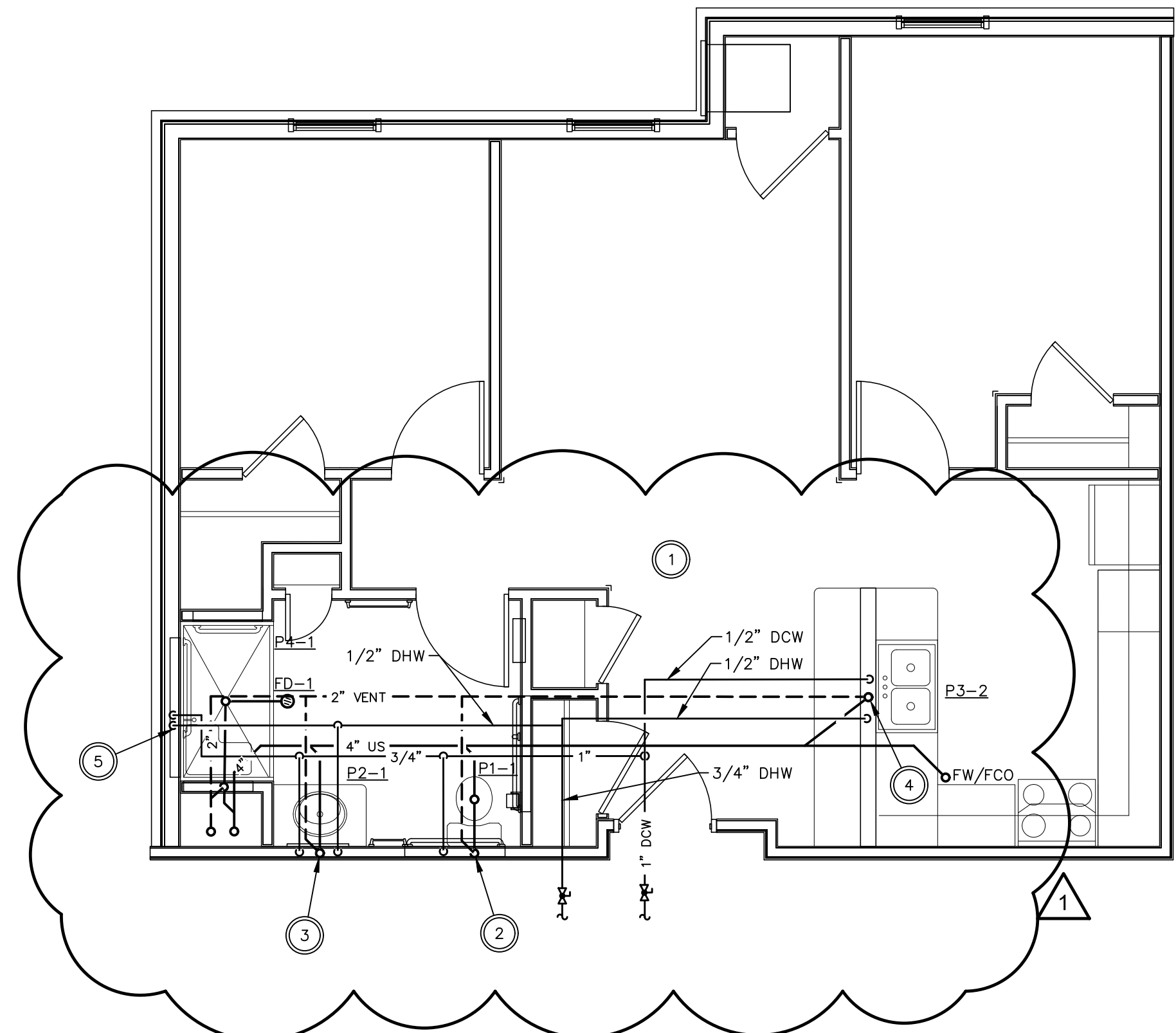
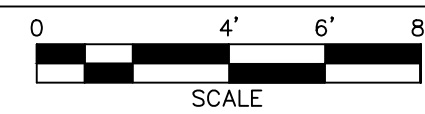
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 INTO REALITY

03/31/2023
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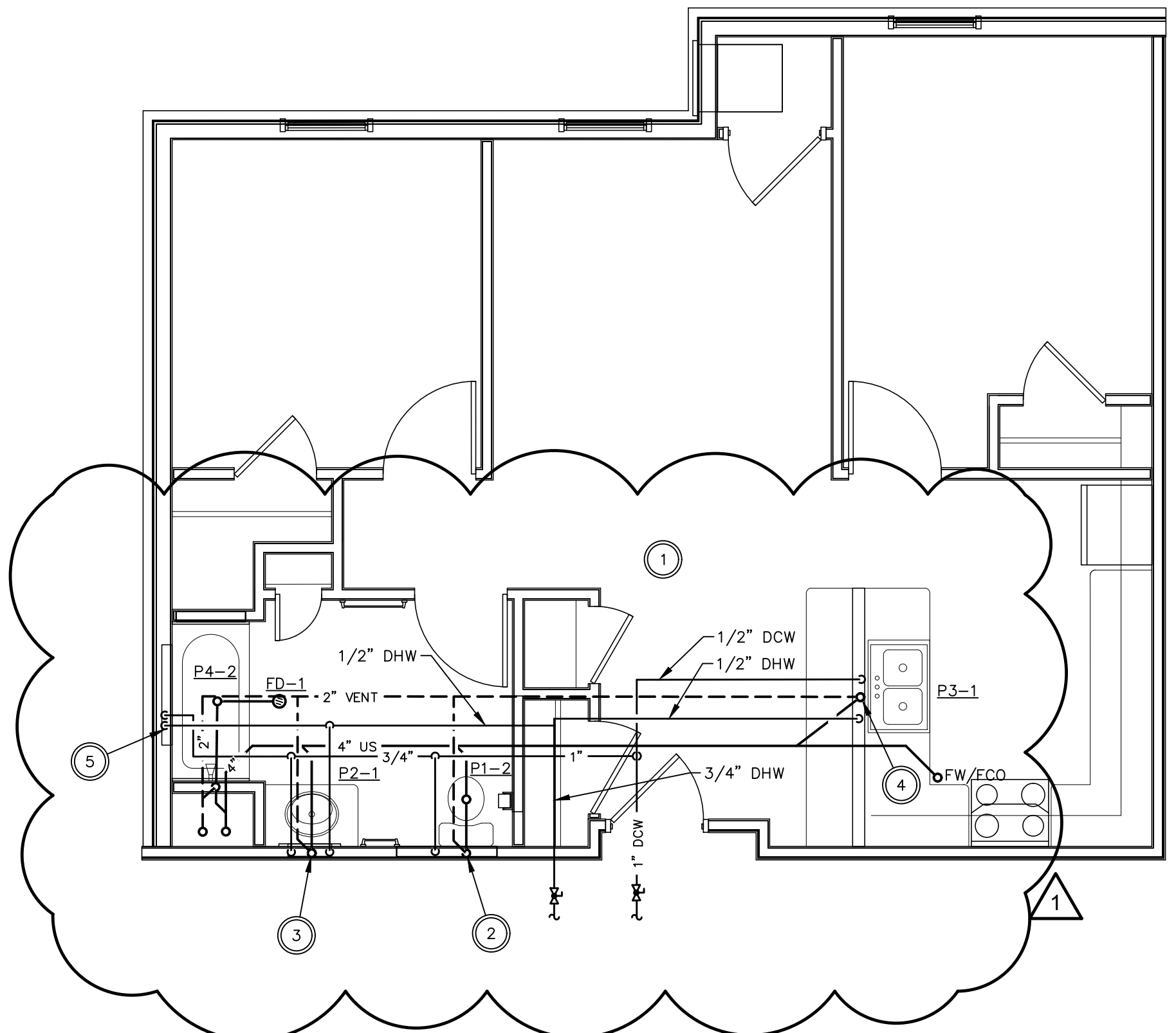
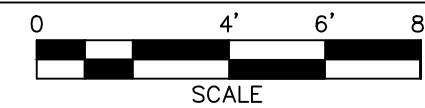
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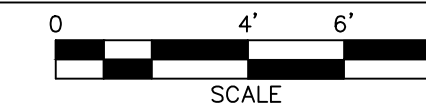
NEW WORK - TWO BEDROOM S&H - PLUMBING



NEW WORK - TWO BEDROOM ADA - PLUMBING



NEW WORK - TWO BEDROOM TYP. - PLUMBING

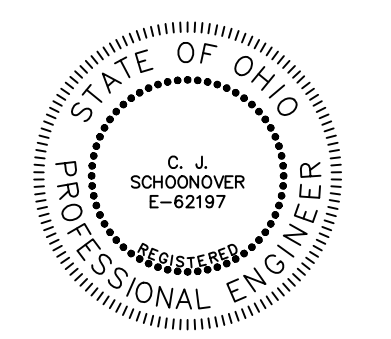


PLAN NOTES

- 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. DHW STORAGE FROM BRANCH TAKEOFF IN CORRIDOR TO FURTHEST FIXTURE SHALL BE LIMITED TO 1/2 GALLON. CONTRACTOR SHALL PROVIDE FINAL PIPE LAYOUT WITH DIMENSIONS FOR SUBMISSION AND REVIEW BY A/E.
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. 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.



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TYPICAL TWO BEDROOM PLANS

GERMANTOWN CROSSING
DAYTON OHIO



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82A21

PROJECT NUMBER

P202

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.
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- 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.

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TYPICAL THREE BEDROOM PLANS
GERMANTOWN CROSSING
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ARCHITECTS

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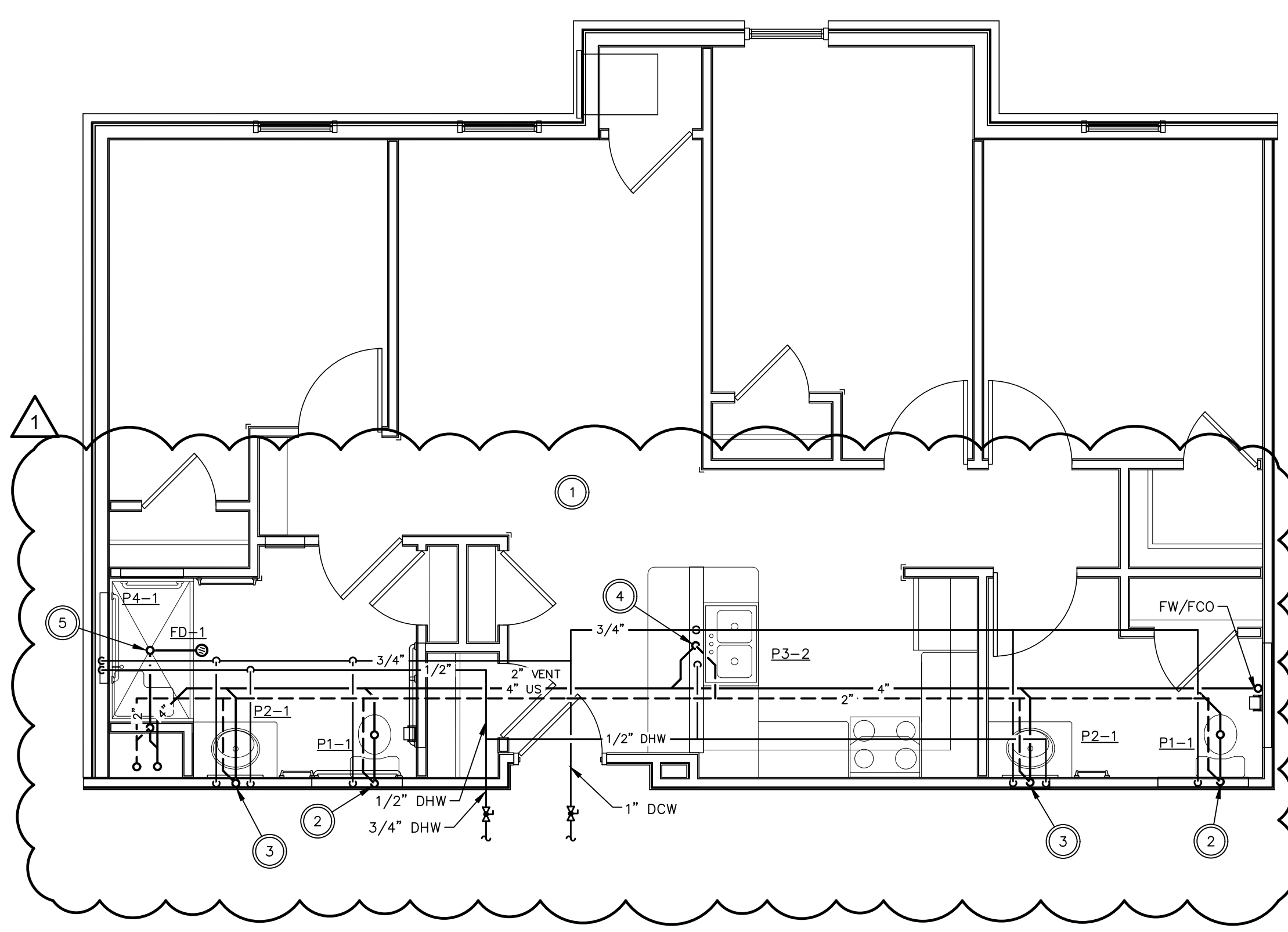
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03/31/2023
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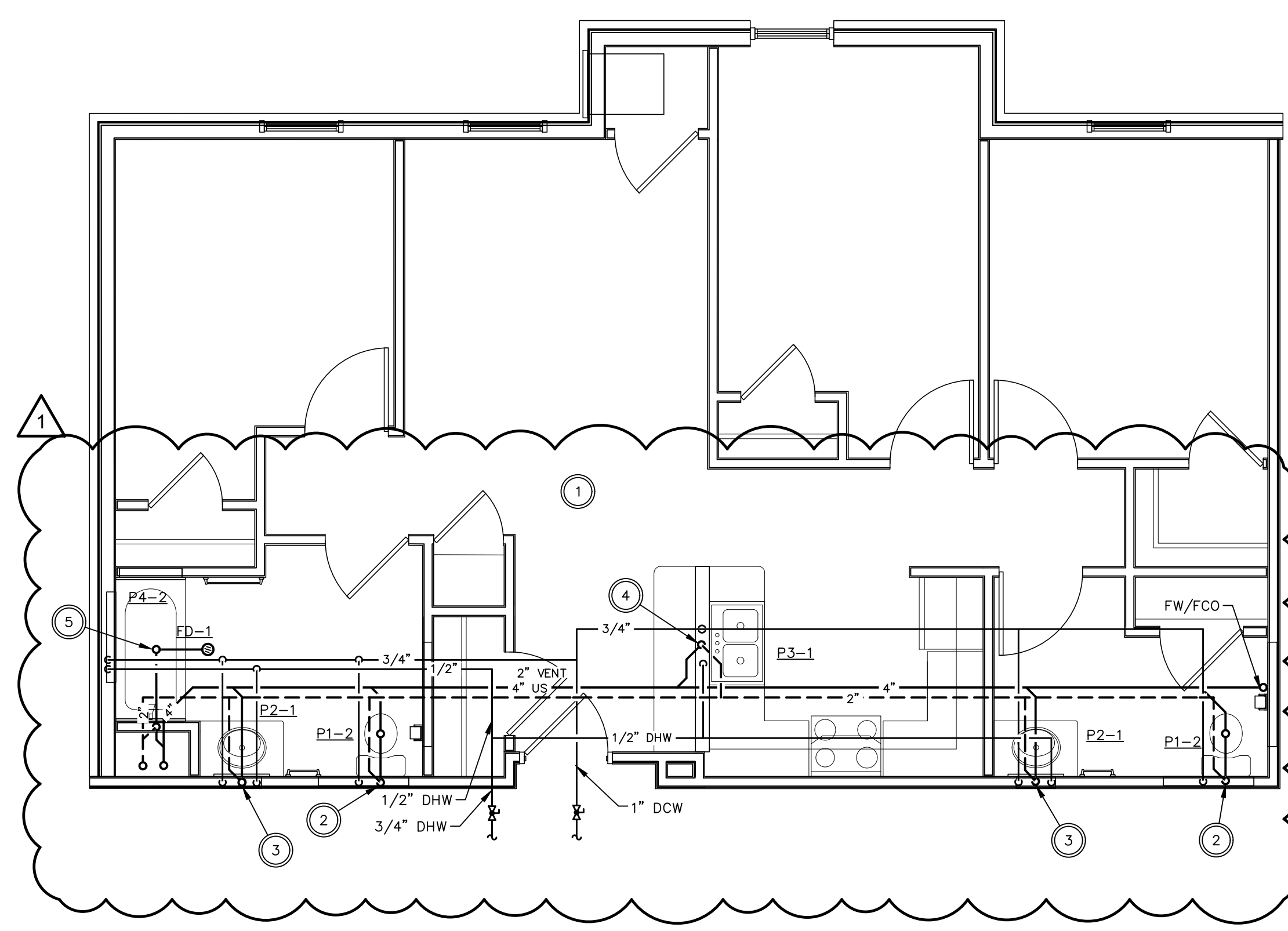
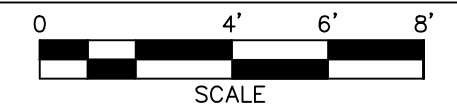
82A21
 PROJECT NUMBER

P203
 DRAWING NUMBER

DRAWING NUMBER

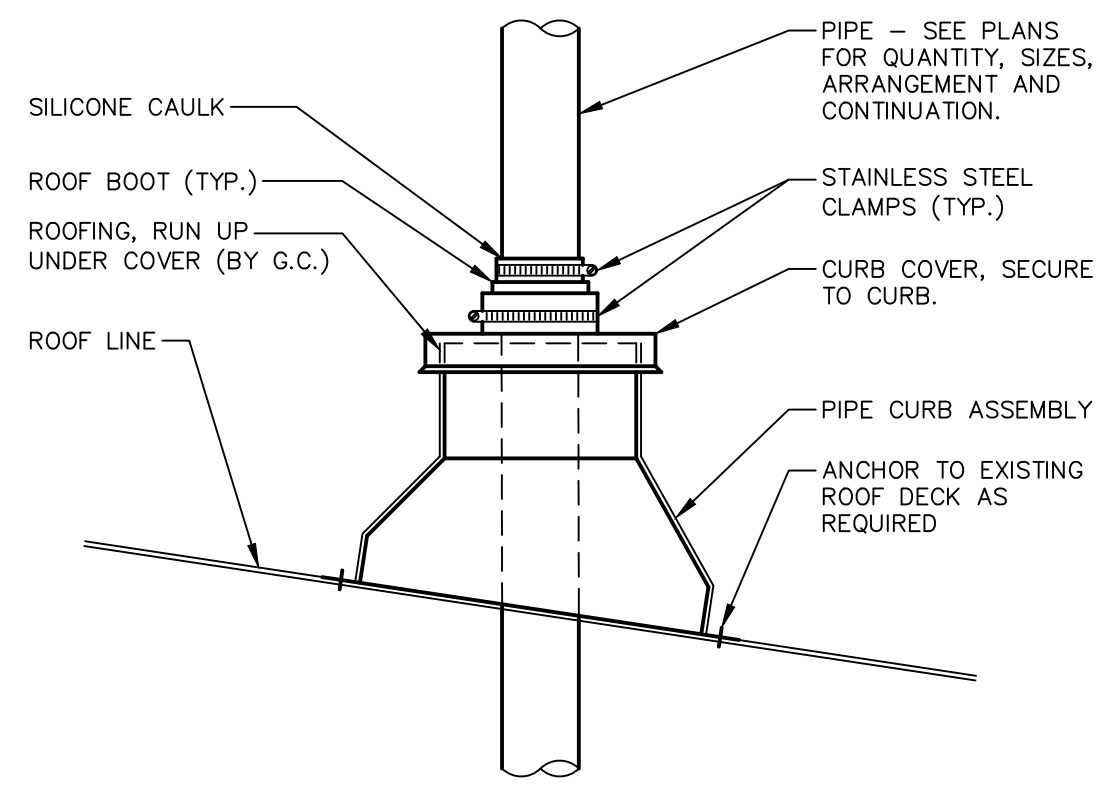


NEW WORK - THREE BEDROOM ADA - PLUMBING

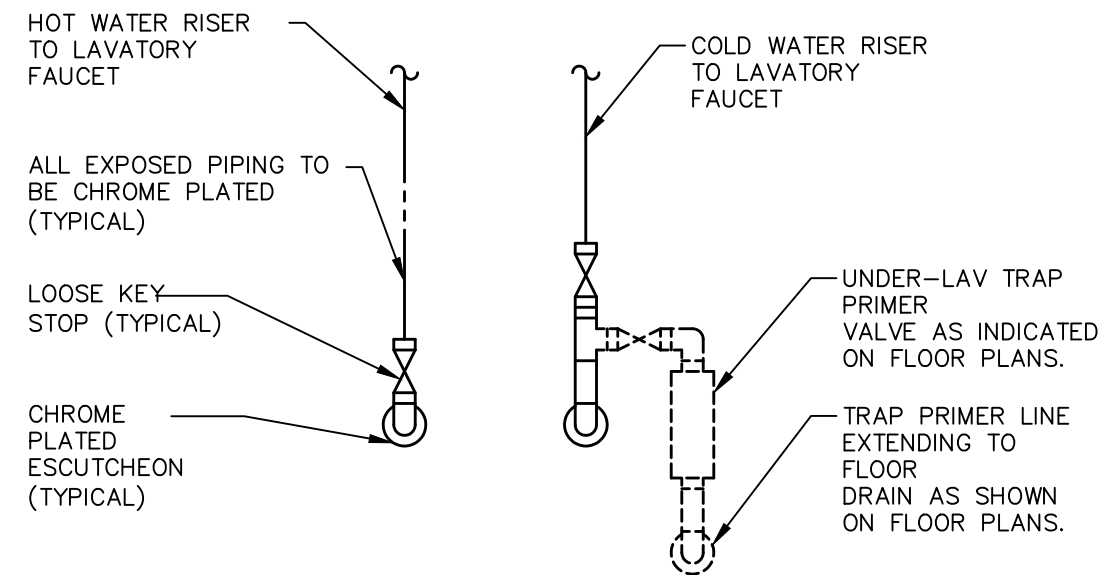


NEW WORK - THREE BEDROOM TYP. - PLUMBING

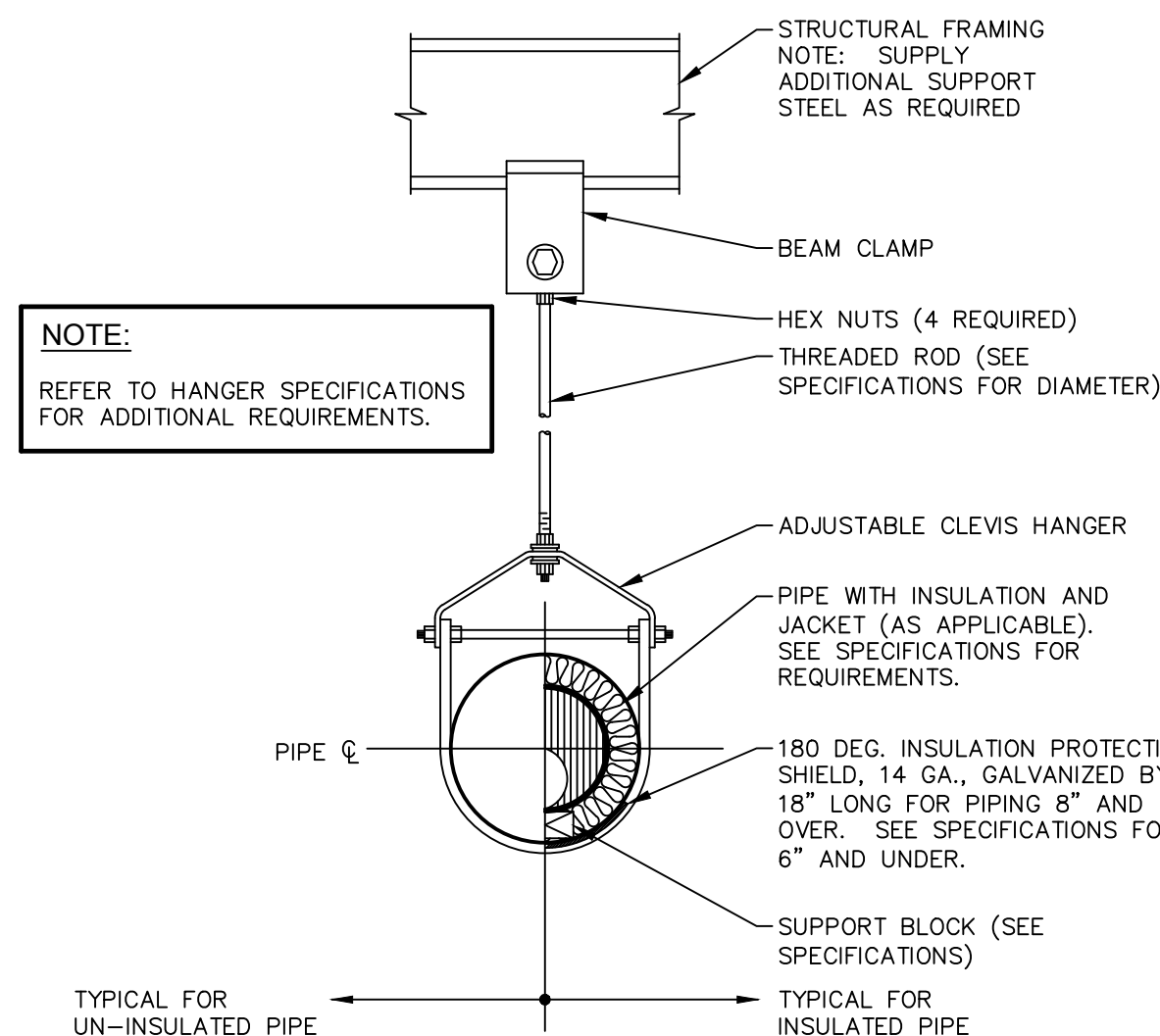




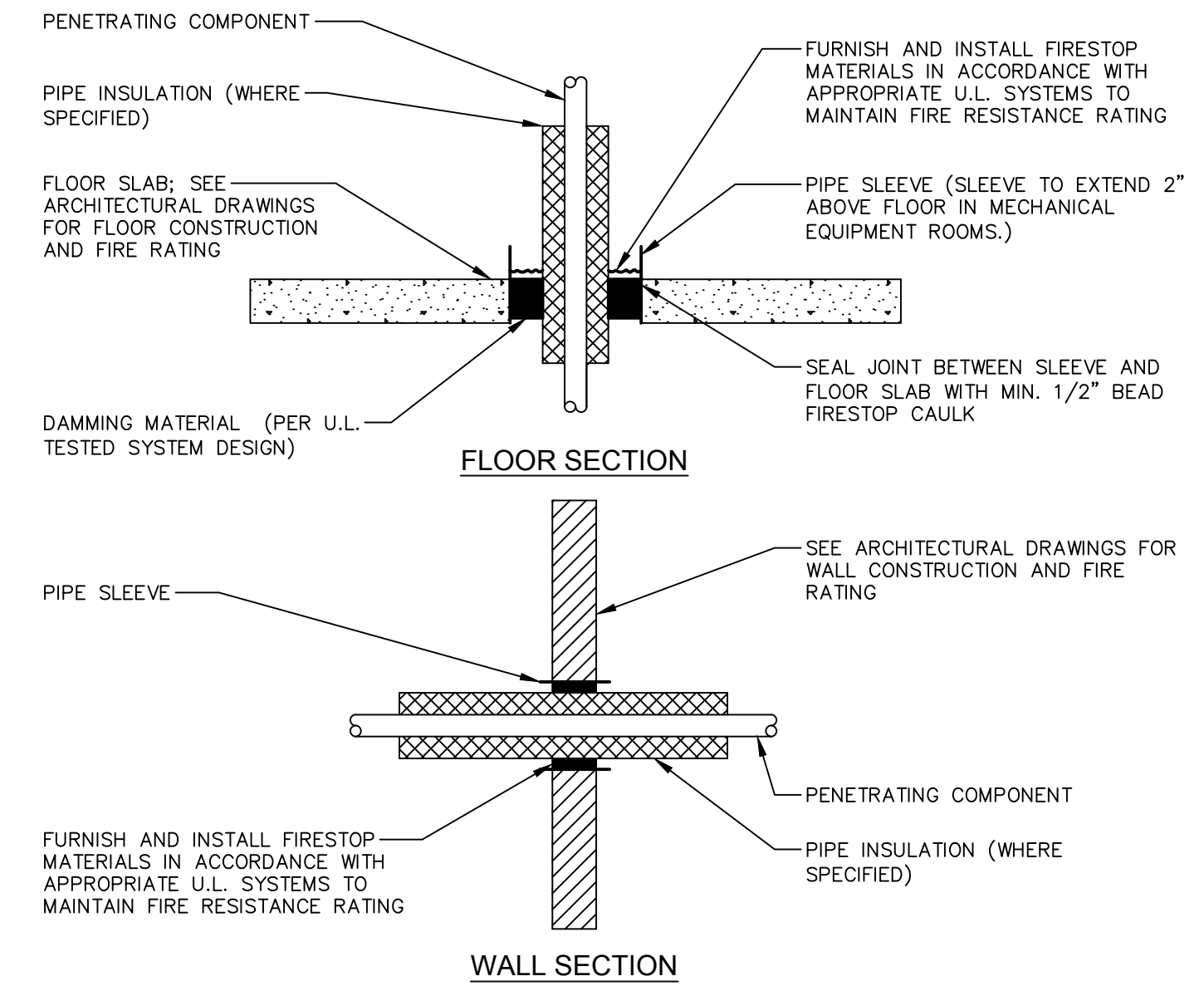
(SLOPED ROOF)
VENT PIPE CURB DETAIL
N.T.S.



TYPICAL PRIVATE LAVATORY DETAIL
N.T.S.

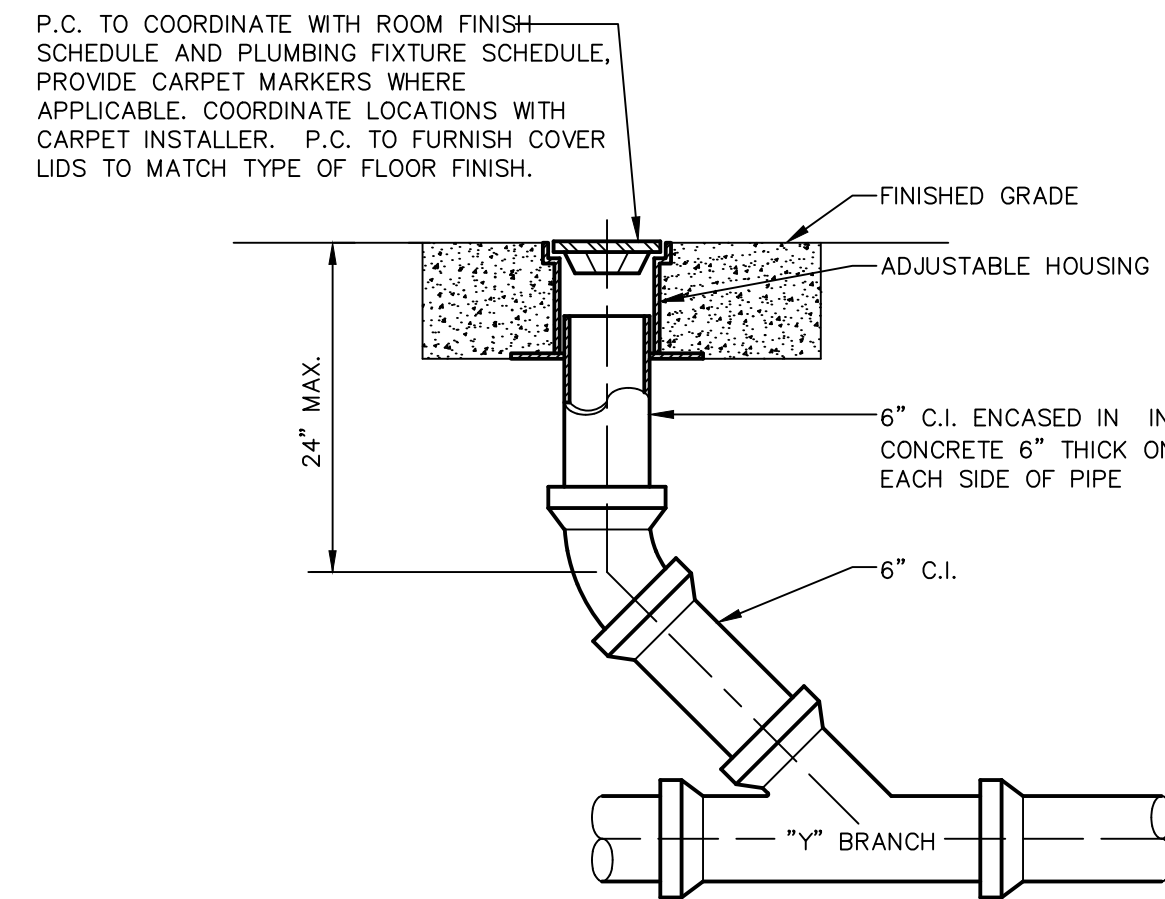


CLEVIS HANGER PIPE SUPPORT
N.T.S.

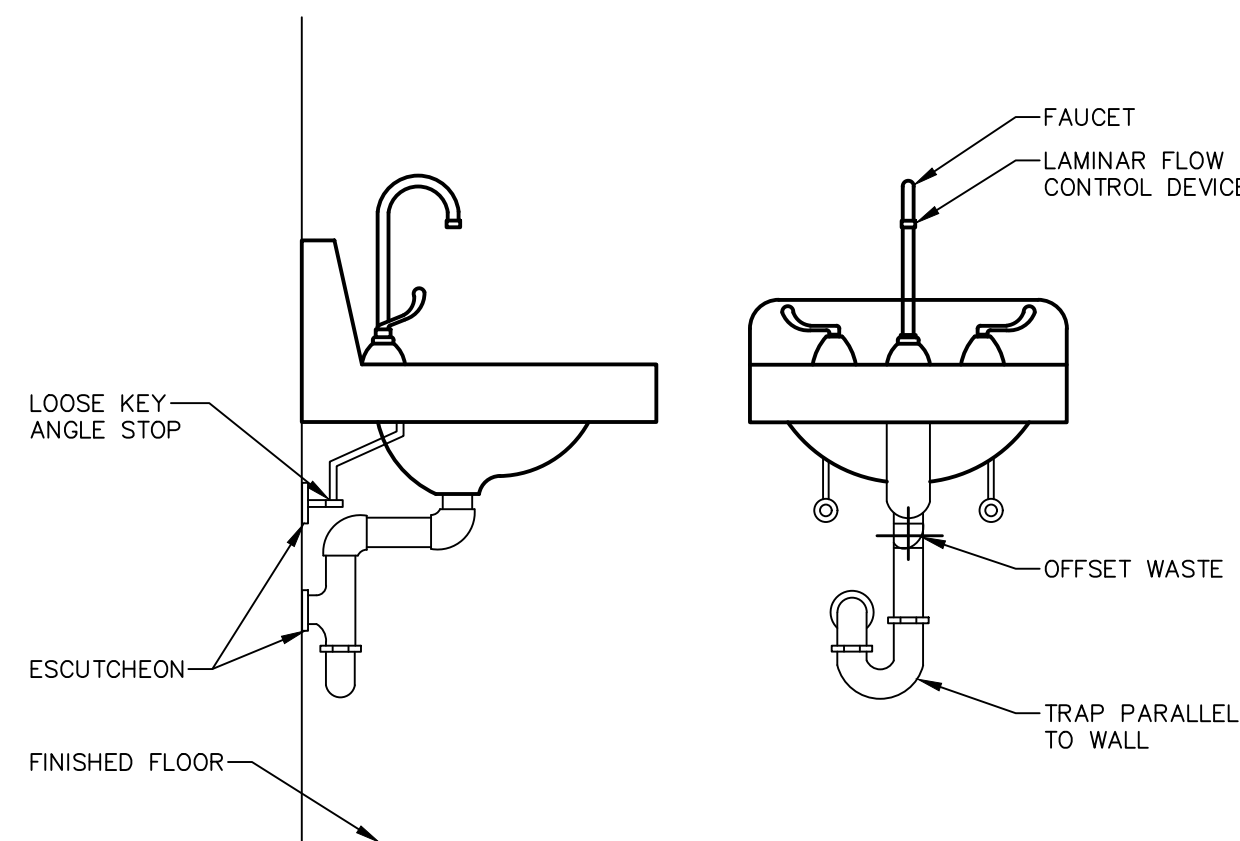


- NOTES:**
- WHERE PIPES, DUCTS AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS 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 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 U.L. 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.

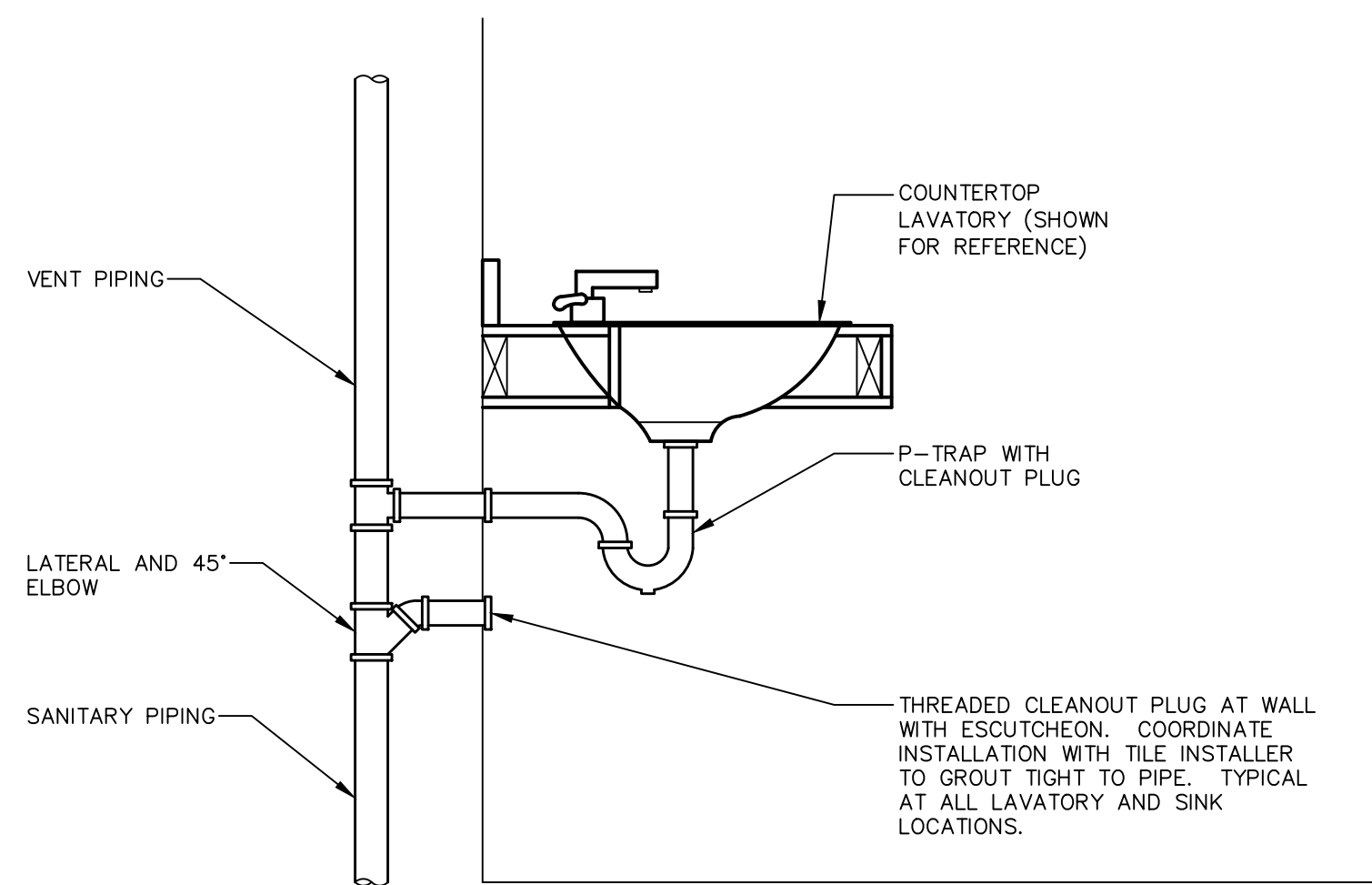
FIRESTOPPING DETAIL FOR PENETRATIONS THROUGH FIRE-RATED CONSTRUCTIONS
N.T.S.



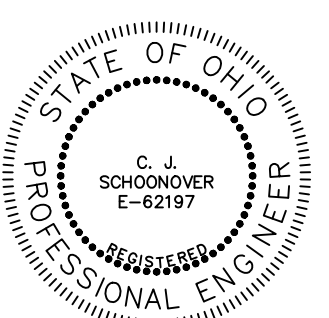
INTERIOR DRAIN CLEANOUT DETAIL
N.T.S.



TYPICAL WHEELCHAIR LAVATORY DETAIL
N.T.S.



TYPICAL LAVATORY CLEANOUT DETAIL
N.T.S.



Chief Schoonover 3/31/23
SIGNATURE DATE

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PLUMBING DETAILS

GERMANTOWN CROSSING
DAYTON OHIO



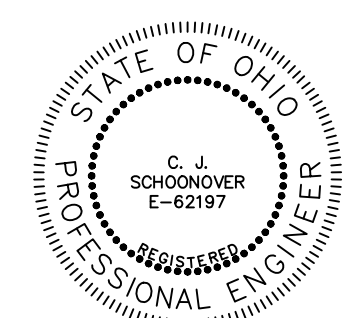
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PLUMBING DETAILS
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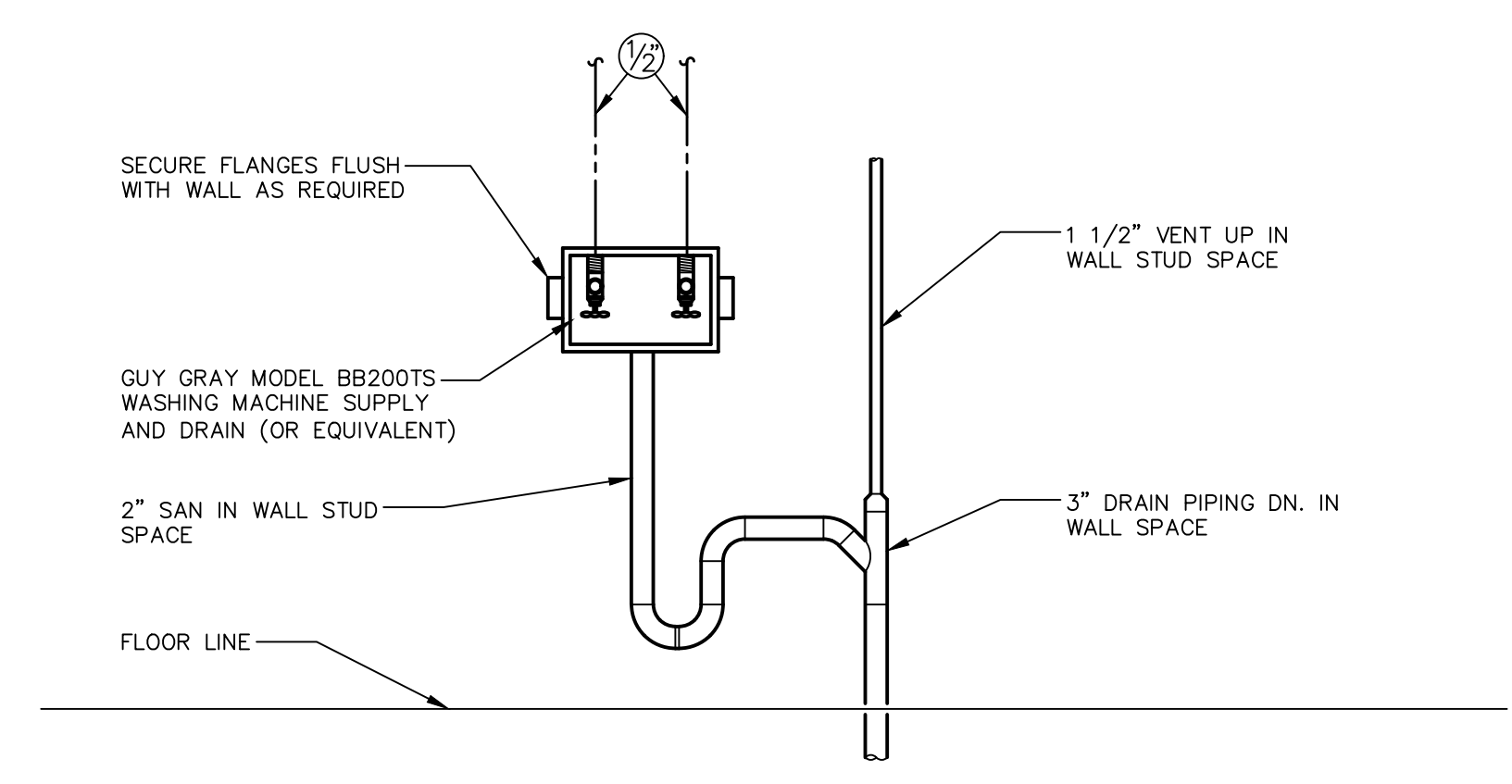


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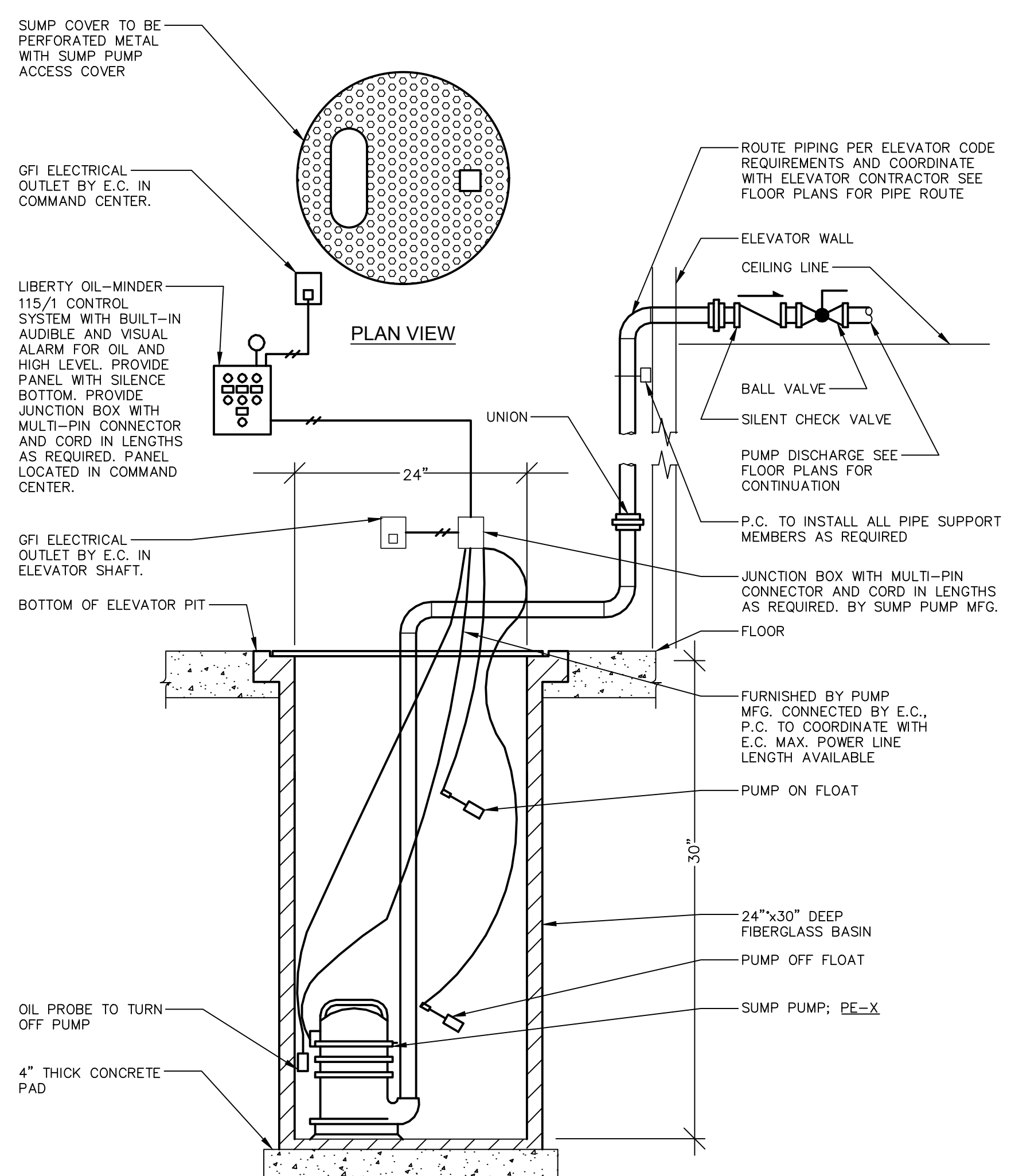
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 82A21
 PROJECT NUMBER

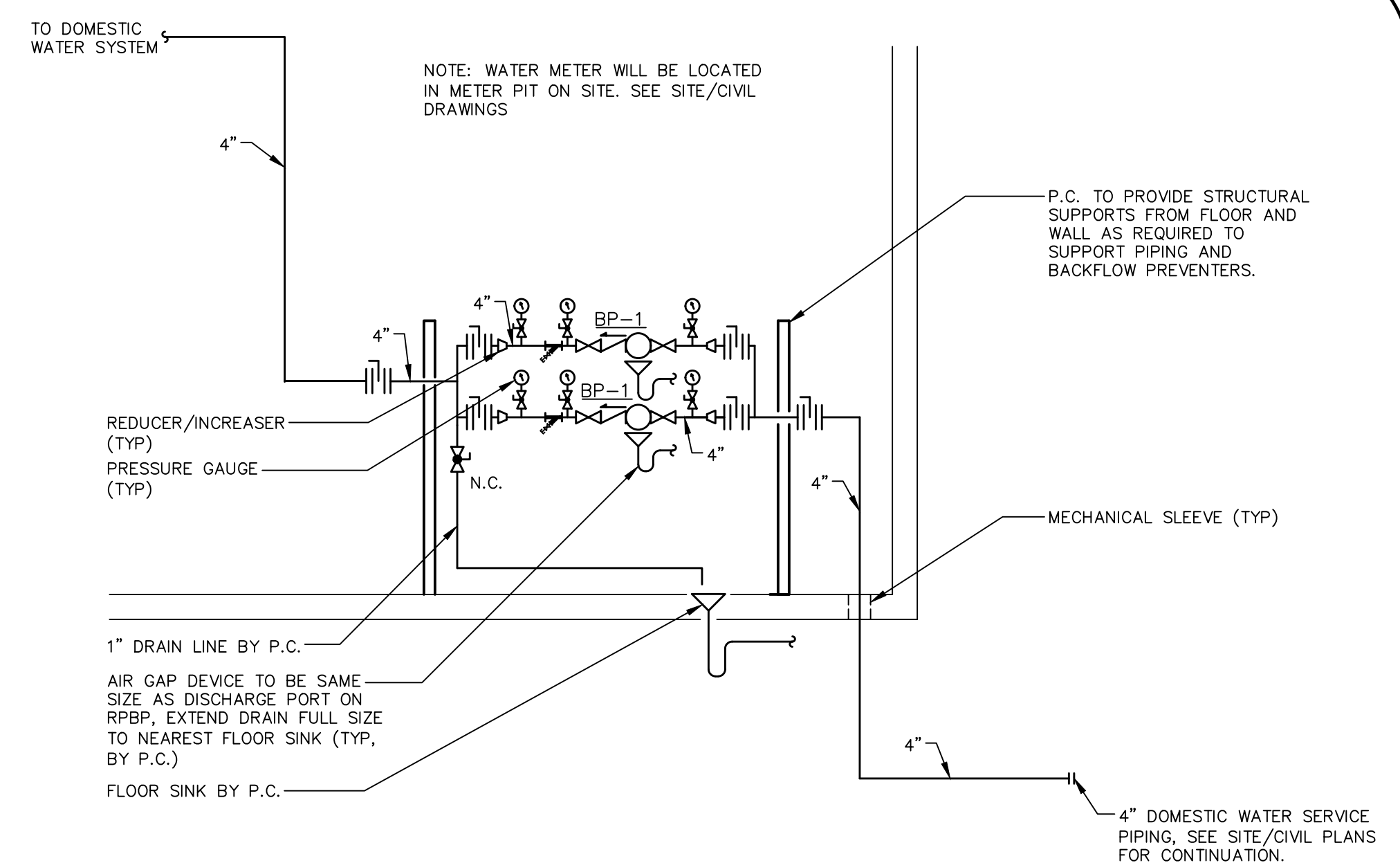
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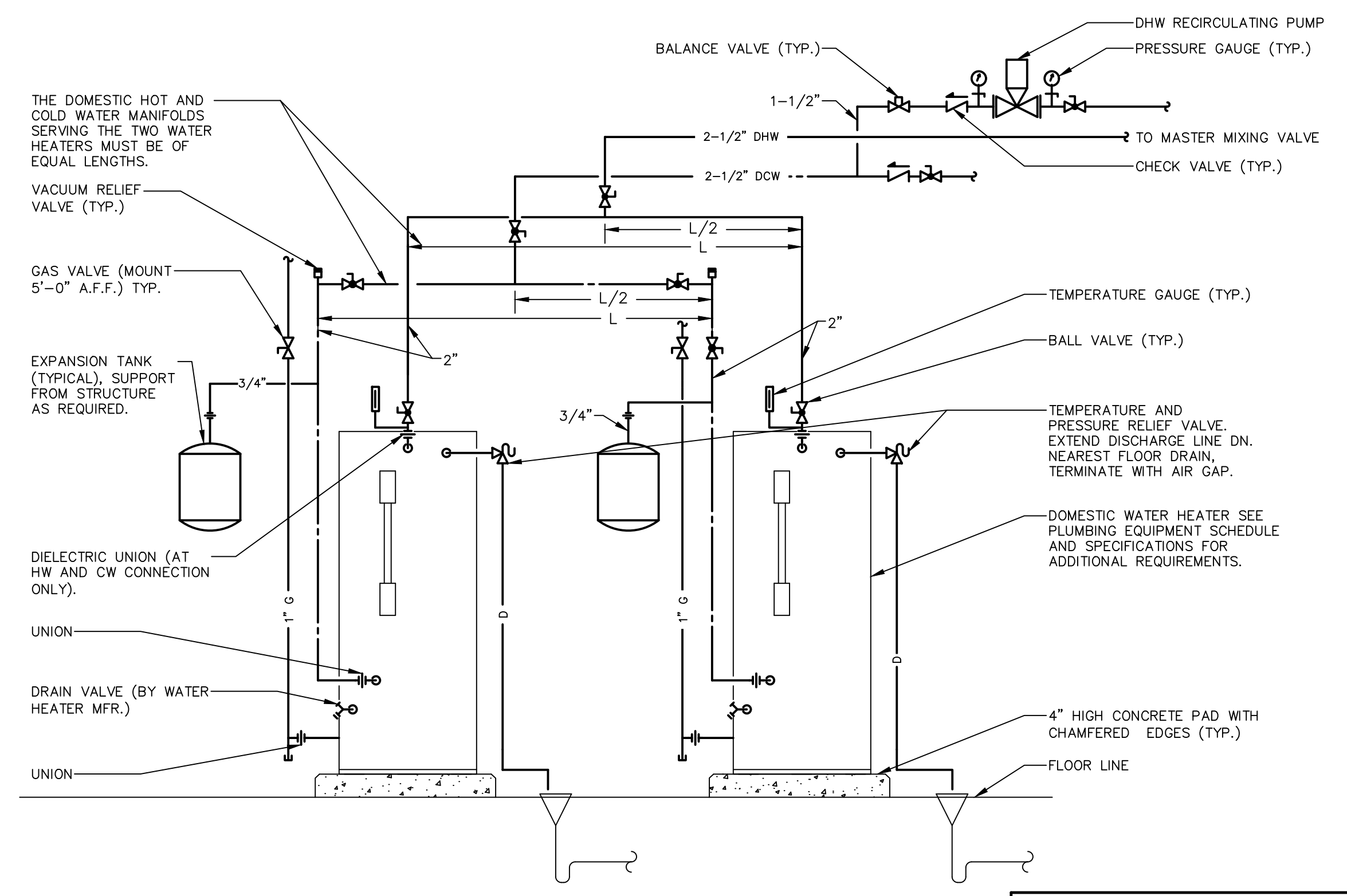
WASHING MACHINE CONNECTION
 N.T.S.



ELEVATOR SUMP PUMP
 N.T.S.



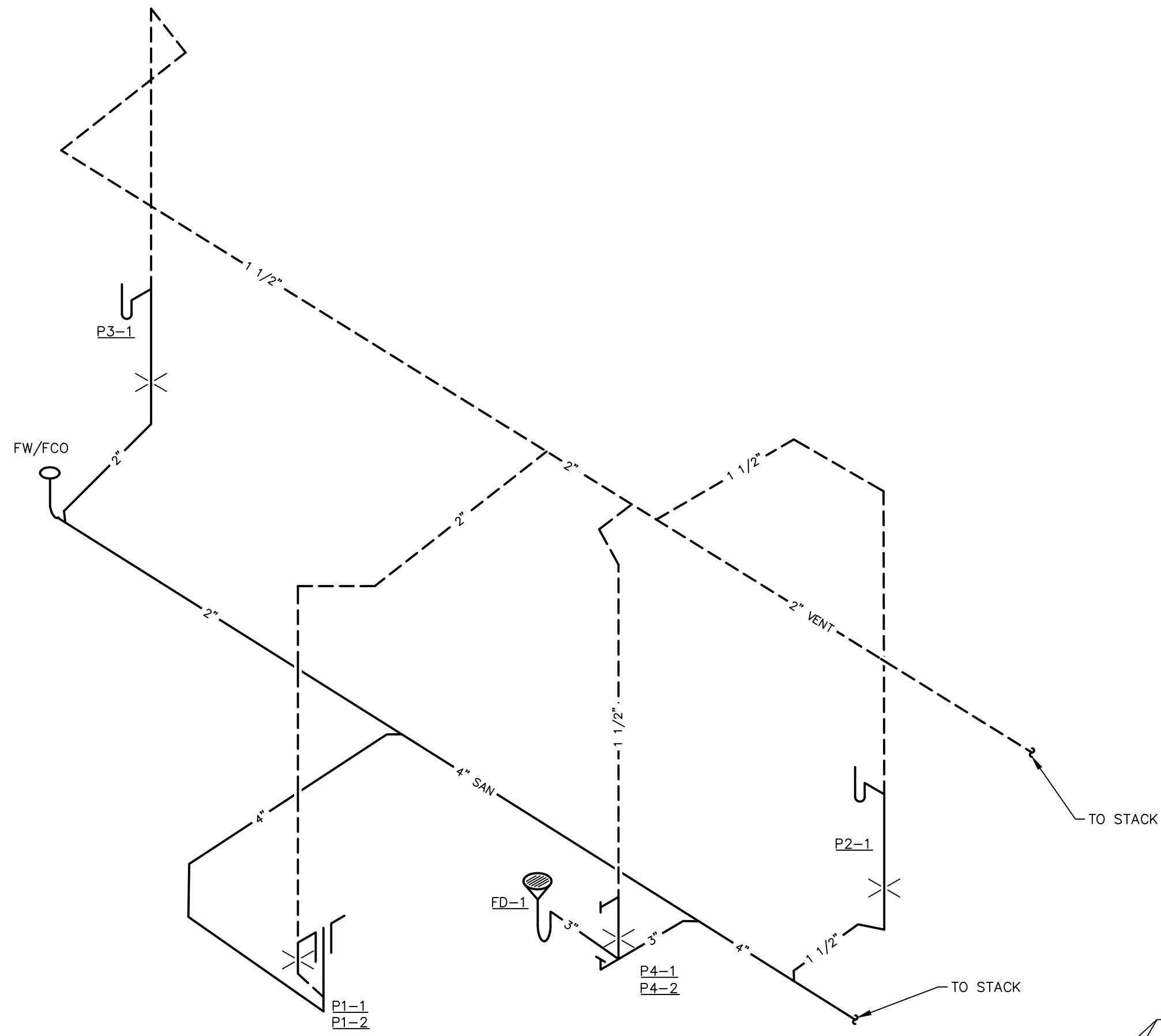
DOMESTIC WATER SERVICE DETAIL
 N.T.S.



DOMESTIC WATER HEATER SCHEMATIC
 N.T.S.

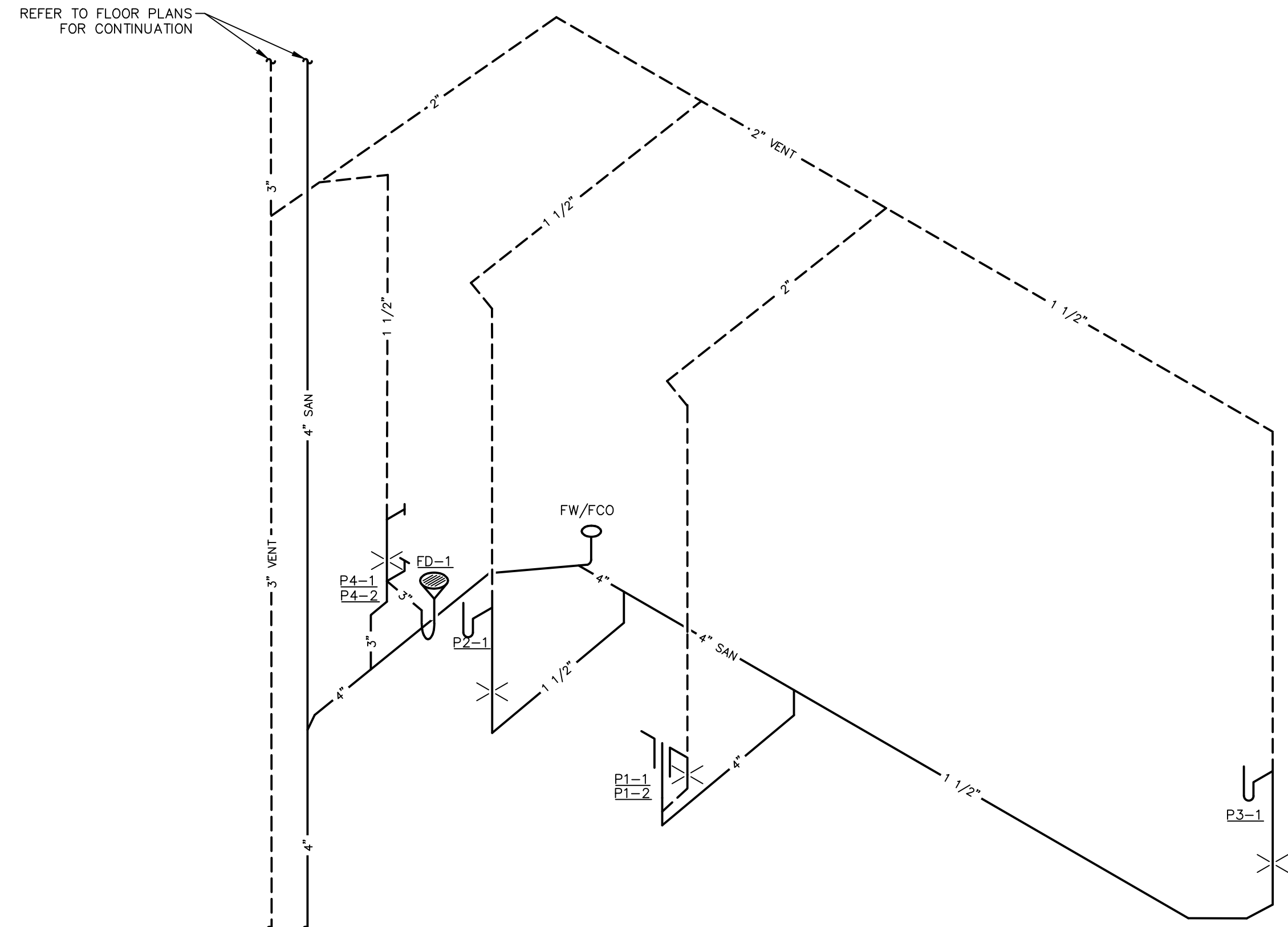
- NOTES:**
1. THE DOMESTIC HOT AND COLD WATER MANIFOLDS SERVING THE TWO WATER HEATERS MUST BE OF EQUAL LENGTHS.
 2. SET DOMESTIC WATER HEATER TO 140 °F.
 3. SEE FLOOR PLANS FOR LOCATION AND ORIENTATION OF PIPING AND EQUIPMENT.
 4. FLUE AND SEALED COMBUSTION PIPING SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

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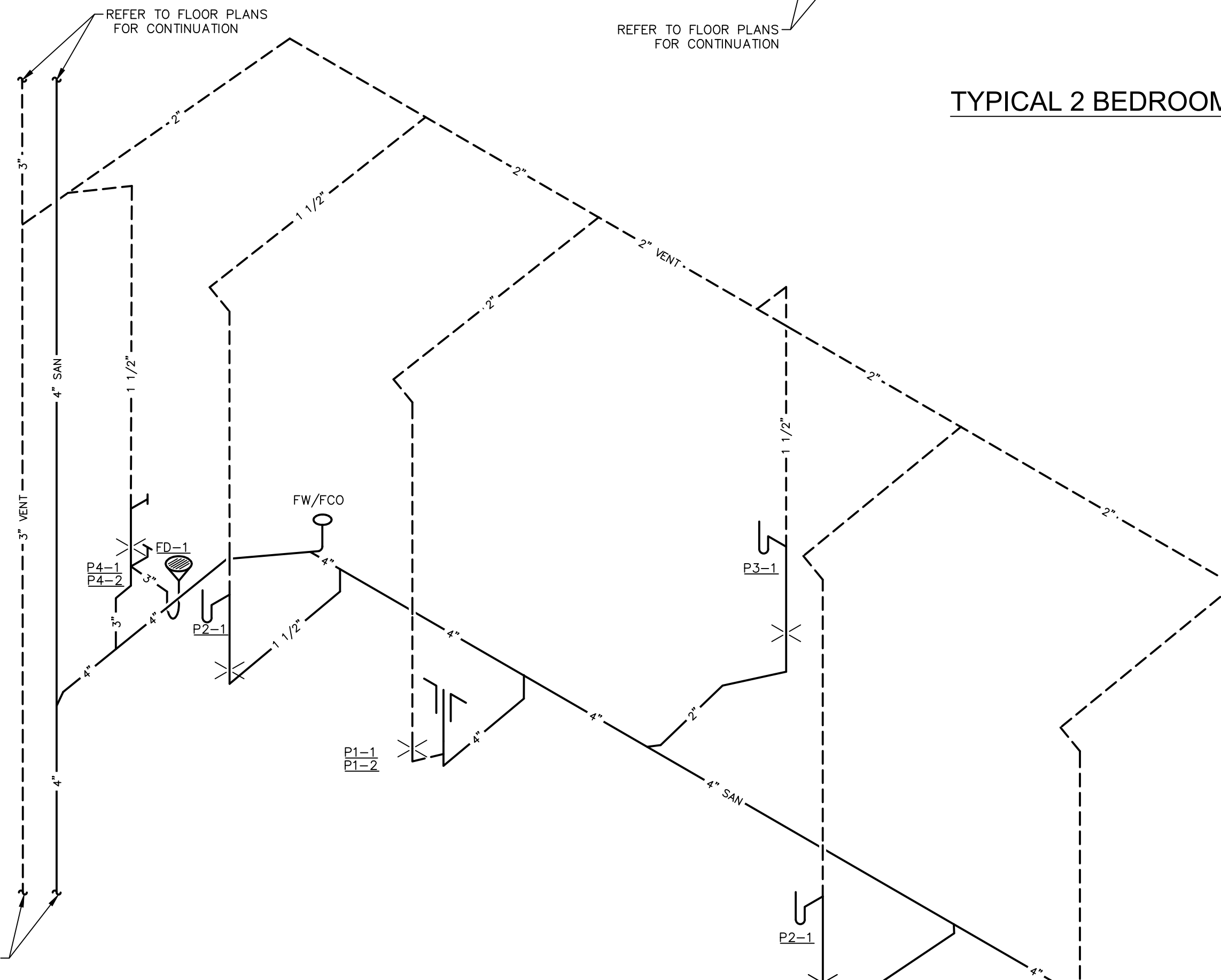
TYPICAL 1 BEDROOM PLUMBING ISOMETRIC

N.T.S.



TYPICAL 2 BEDROOM PLUMBING ISOMETRIC

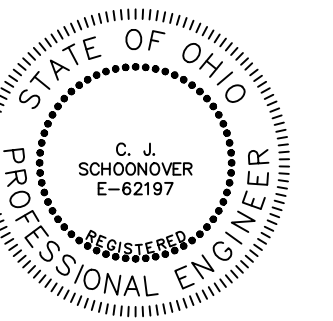
N.T.S.



TYPICAL 3 BEDROOM PLUMBING ISOMETRIC

N.T.S.

1
NOTE:
ALL PENETRATIONS THROUGH FIRE RATED WALLS,
CEILINGS, OR FLOORS SHALL BE FIRESTOPPED PER DETAIL
ON P301.



Chief Schoonover 3/31/23
SIGNATURE DATE

REVISIONS	
△	BULLETIN 01 - 07/17/2023

PLUMBING ISOMETRICS
GERMANTOWN CROSSING
DAYTON OHIO



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INTO REALITY

03/31/2023

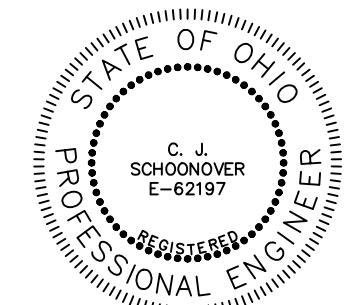
DATE

82A21

PROJECT NUMBER

P401

DRAWING NUMBER



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SIGNATURE DATE

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FIRE SUPP. NOTES, LEGENDS
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FIRE SUPPRESSION NEW WORK GENERAL NOTES

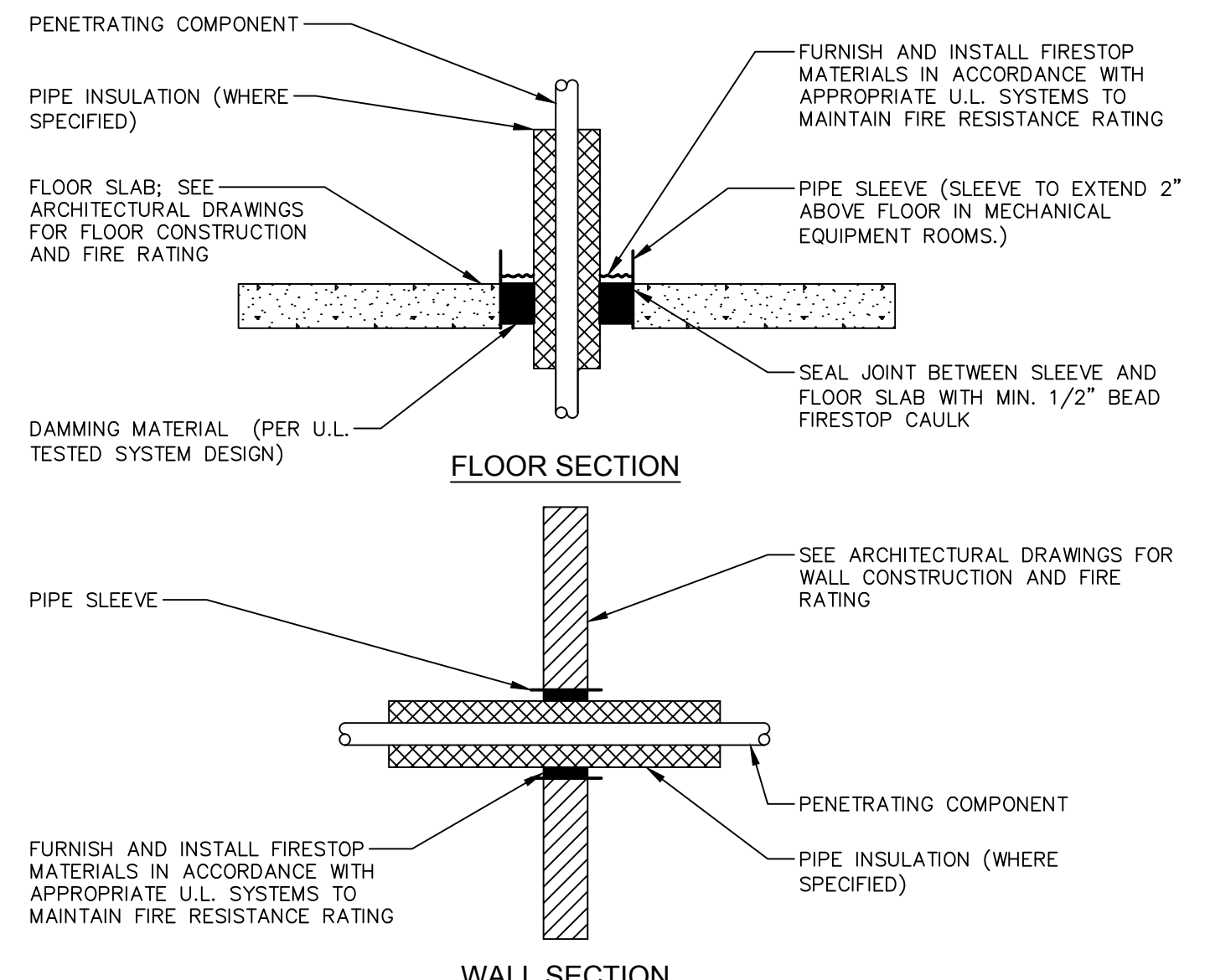
- THE GENERAL NOTES LISTED HERE APPLY TO ALL FIRE SUPPRESSION DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
- SEE CODED NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- COORDINATE WITH GENERAL TRADES WORK, HVAC WORK, PLUMBING WORK, ELECTRICAL WORK AND OTHER WORK.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE AND SMOKE WALLS AND RATED STRUCTURES. SEE DETAILS AND SPECIFICATIONS FOR PIPE PENETRATION SEAL REQUIREMENTS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOM DESIGNATIONS INCLUDING ALL STORAGE AREAS. ALL STORAGE AREAS ARE TO BE SPRINKLERED AS ORDINARY HAZARD PER N.F.P.A.
- IT IS RECOGNIZED THAT DRAWINGS MAY BE PLOTTED AT DIFFERENT SCALES, SUCH THAT PLOTTED DRAWINGS MAY VARY FROM ACTUAL OR INTENDED DIMENSIONS. THEREFORE, DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. SBM TAKES NO RESPONSIBILITY FOR ERRORS REGARDING DISCREPANCIES FROM THE ORIGINAL DRAWINGS DRAWN AT THE PROPER SCALE AND THOSE DRAWINGS THAT HAVE BEEN PLOTTED.
- THE FIRE SUPPRESSION DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT AND PIPING UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED FOR CLEARANCES, ETC. PIPING AND FIRE SUPPRESSION EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFORMED WITH IN THE ACTUAL WORK. THIS CONTRACTOR TO BE AWARE OF LIMITED SPACE ABOVE CEILING FOR NEW WORK AND SHOULD MODIFY HIS WORK TO ACCOMMODATE OTHER TRADES. COORDINATE WORK WITH OTHER TRADES PRIOR TO MAKING THE FINAL INSTALLATION DRAWING OR SYSTEM INSTALLATION. THE CONTRACTORS IN THEIR BIDS ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN FIRE SUPPRESSION WORK AS REQUIRED TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT, OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
- ALL WORK DESIGNATED ON THESE DRAWINGS ARE TO BE BY THE CONTRACTOR SPECIFIED TO DO THE WORK. THE FIRE SUPPRESSION CONTRACTOR IS TO CONDUCT ALL REQUIRED EXCAVATION, BACKFILL, COMPACTION, AND FINAL SURFACE MATERIAL (CONCRETE, SEEDING, ASPHALT, ETC.) TO MATCH EXISTING MATERIALS FOR INSTALLATION OF WATER MAIN BELOW GRADE. FINAL SURFACE MATERIALS MUST BE SUBCONTRACTED TO A CONTRACTOR WITH A MINIMUM OF 5 YEARS EXPERIENCE IN INSTALLATION OF THE REQUIRED SURFACE MATERIAL. INSTALLATION OF REQUIRED SURFACE MATERIAL TO BE INSTALLED PER SPECIFICATIONS
- ALL SPRINKLER HEADS ARE TO BE QUICK RESPONSE TYPE.
- ALL FIRE SUPPRESSION PIPING AND CONDUIT SHALL FOLLOW THE INSTALLATION REQUIREMENTS AS LISTED BELOW:
 - INSTALL TIGHT AGAINST BOTTOM OF ROOF AND FLOOR STRUCTURE.
 - INSTALL PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
 - INSTALL CONCEALED ABOVE CEILINGS OR INSIDE WALLS, UNLESS OTHERWISE NOTED.
- SPRINKLER PIPING IS TO AVOID EQUIPMENT IN MECHANICAL ROOM. COORDINATE WITH H.C. AND E.C.
- USE INTERMEDIATE LEVEL SPRINKLERS BELOW DUCTWORK AND STRUCTURAL MEMBERS, WHERE APPLICABLE.
- GENERAL CONTRACTOR SHALL PAINT ALL EXPOSED FIRE SUPPRESSION PIPING INSIDE AND OUTSIDE BUILDING WITH COLOR AS SELECTED BY ARCHITECT.
- ALL VALVES, FLOW SWITCHES, AND ETC. ABOVE THE CEILING SHALL BE LABELED WITH ENGRAVED LAMINATE TAG ATTACHED TO CEILING GRID WITH PRESSURE SENSITIVE TAPE. THE (RED) LAMINATE TAG SHALL BE 1/2" WIDE WITH 1/4" HIGH ENGRAVED (WHITE) LETTERS.
- FIRE SUPPRESSION CONTRACTOR TO COORDINATE FINAL PLACEMENT OF SPRINKLER HEADS WITH REFLECTED CEILING PLANS. SPRINKLER HEADS SHALL BE INSTALLED IN STRAIGHT AND PARALLEL LINES CENTERED IN A SYMMETRICAL AND UNIFORM PATTERN IN THE CEILING TILES (TYP ALL HEADS). SIDEWALL SPRINKLER HEAD LOCATIONS TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS.
- SPRINKLER HEADS TO BE PROVIDED IN TYPES AND FINISHES AS SPECIFIED IN SPECIFICATION SECTION 211000.
- ALL WORK IS TO COMPLY WITH DESIGN AND INSTALLATION REQUIREMENTS PER NATIONAL FIRE PROTECTION AGENCY 13, OHIO BUILDING CODE AND THE OWNER'S INSURANCE COMPANY. THE MOST STRINGENT REQUIREMENTS SHALL APPLY.
- FIRE SUPPRESSION CONTRACTOR SHALL PERFORM WATER FLOW TEST PRIOR TO PERFORMING HYDRAULIC CALCULATIONS AND SPRINKLER LAYOUT. TEST TO MEET N.F.P.A. REQUIREMENTS. CONTRACTOR SHALL COORDINATE WHEN TEST IS TO BE PERFORMED WITH OWNER AND COPY TEST RESULTS TO PROJECT ENGINEER AND OWNER.
- FIRE SUPPRESSION CONTRACTOR SHALL HYDRAULICALLY CALCULATE AUTOMATIC SPRINKLER SYSTEM WITH INSTALL NEW SYSTEM AS REQUIRED BY NEW CALCULATIONS AND DESIGN. THE FIRE SUPPRESSION CONTRACTOR SHALL DESIGN THE SYSTEM, SUBMIT AND ETC. AS LISTED BELOW:
 - THE SUBMITTED PLANS AND CALCULATIONS MUST ALSO INDICATE THE CERTIFIED INDIVIDUAL INSTALLING THE SPRINKLER SYSTEM TO COMPLY WITH OHIO BUILDING CODE.
 - PLANS FOR THE SPRINKLER SYSTEM SHALL CONTAIN THE FOLLOWING INFORMATION RELATIVE TO THE WATER SUPPLY:
 - THE PLANS SHALL SHOW THE WATER SUPPLY REQUIREMENTS FOR THE HYDRAULICALLY MOST DEMANDING AREA. THE DESIGN CALCULATIONS SHALL SUBSTANTIATE THAT THE AVAILABLE WATER SUPPLY WILL MEET THE SYSTEM REQUIREMENTS.
 - THE WATER SUPPLY REQUIREMENTS SHALL BE DETERMINED ACCORDING TO HAZARD CLASSIFICATION AS OUTLINED IN N.F.P.A. 13, APPROVED ADDITION, PIPE SCHEDULE SYSTEMS OR HYDRAULICALLY DESIGNED SYSTEMS.
 - WHEN SPRINKLER SYSTEMS ARE CONNECTED TO CITY WATER MAINS, FLOW TEST RESULTS SHALL BE SUBMITTED. THE PLANS SHALL SHOW THE FOLLOWING INFORMATION ON WATER FLOW DATA WITH EXISTING OR PROPOSED WATER SUPPLY, DEAD END OR CIRCULATING:
 - LOCATION AND ELEVATION OF STATIC AND RESIDUAL TEST GAGE WITH RELATION TO THE RISER REFERENCE POINT.
 - FLOW LOCATION.
 - STATIC PRESSURE, PSI.
 - RESIDUAL PRESSURE, PSI.
 - FLOW, GPM.
 - DATE.
 - TIME.
 - TEST CONDUCTED BY OR INFORMATION SUPPLIED BY.
 - PLOTTED GRAPH SHOWING WATER SUPPLY CURVES AND SYSTEM REQUIREMENTS IN ACCORDANCE WITH N.F.P.A. 13, APPROVED ADDITION.
 - FIRE MAIN TO BE HYDRAULICALLY CALCULATED AND SIZED TO DESIGN INSTALLATION REQUIREMENTS AS PER N.F.P.A., SECTIONS 13, 14, AND 24.
 - INSTALL TEST AND DRAIN, SEE DETAIL AND NOTES ON DRAWING. BALL VALVE TO HAVE A 1/2" ROUND CORROSION RESISTANT SMOOTH BORE OUTLET GIVING THE EQUIVALENT FLOW OF ONE SPRINKLER HEAD.
 - ALL OCCUPIED AREAS OF THE BUILDING ARE TO HAVE A WET PIPE SPRINKLER SYSTEM, HYDRAULICALLY CALCULATED AND SIZED TO DESIGN INSTALLATION REQUIREMENTS OF N.F.P.A. SECTIONS 13, 14 AND 24 AND THE OHIO BUILDING CODE UNLESS NOTED OTHERWISE.
 - DO NOT INSTALL AUTOMATIC SPRINKLER PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT OR PANELS. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO CONSTRUCTION.

FIRE SUPPRESSION SYMBOL LEGEND

ABBREVIATION	SYMBOL	DESCRIPTION
AS	— AS —	AUTOMATIC SPRINKLER LINE
DAS	— DAS —	DRY AUTOMATIC SPRINKLER LINE
	— F —	FIRE LINE
	○	UPRIGHT SPRINKLER HEAD
	●	PENDENT SPRINKLER HEAD
	⊗	RECESSED OR CONCEALED SPRINKLER HEAD
	⊕	SIDEWALL SPRINKLER HEAD
T&D	— T&D —	TEST AND DRAIN WITH HOSE ADAPTOR
	— [] —	BALL DRIP
	— [] —	FLOW SWITCH - AUTOMATIC SPRINKLERS
	— [] —	VALVE WITH TAMPER SWITCH (SEE SPECIFICATIONS FOR TYPE)
	— [] —	PIPE SLEEVE (SEE SPECIFICATIONS FOR ADDIT. REQUIREMENTS)
	— [] —	VIBRATION CONNECTION (SEE SPECIFICATIONS)
BEP	— [] —	DOUBLE CHECK BACKFLOW PREVENTER WITH TAMPER SWITCHES
DDC	— [] —	DOUBLE DETECTOR CHECK VALVE WITH TAMPER SWITCHES
F.H.C.	F.H.C.	FIRE HOSE CABINET
F.D.V.C.	F.D.V.C.	FIRE DEPARTMENT VALVE CABINET
	— [] —	PRESSURE GAUGE WITH GAUGE COCK (WATER)
	— [] —	PRESSURE GAUGE WITH BALL VALVE (WATER)
E.C.	E.C.	ELECTRICAL CONTRACTOR
F.S.C.	F.S.C.	FIRE SUPPRESSION CONTRACTOR
G.C.	G.C.	GENERAL CONTRACTOR
H.C.	H.C.	HVAC CONTRACTOR
P.C.	P.C.	PLUMBING CONTRACTOR
A.D.	A.D.	ACCESS DOOR
A.F.F.	A.F.F.	ABOVE FINISHED FLOOR
MFR.	MFR.	MANUFACTURER
N.O.	N.O.	NORMALLY OPEN
N.C.	N.C.	NORMALLY CLOSED
TYP.	TYP.	TYPICAL
	— [] —	INDICATES TIE INTO EXISTING
	— [] —	INDICATES REMOVE TO POINT FOR RECONNECTION
	— [] —	INDICATES REMOVE TO POINT AND CAP

FIRE PROTECTION SCHEDULE

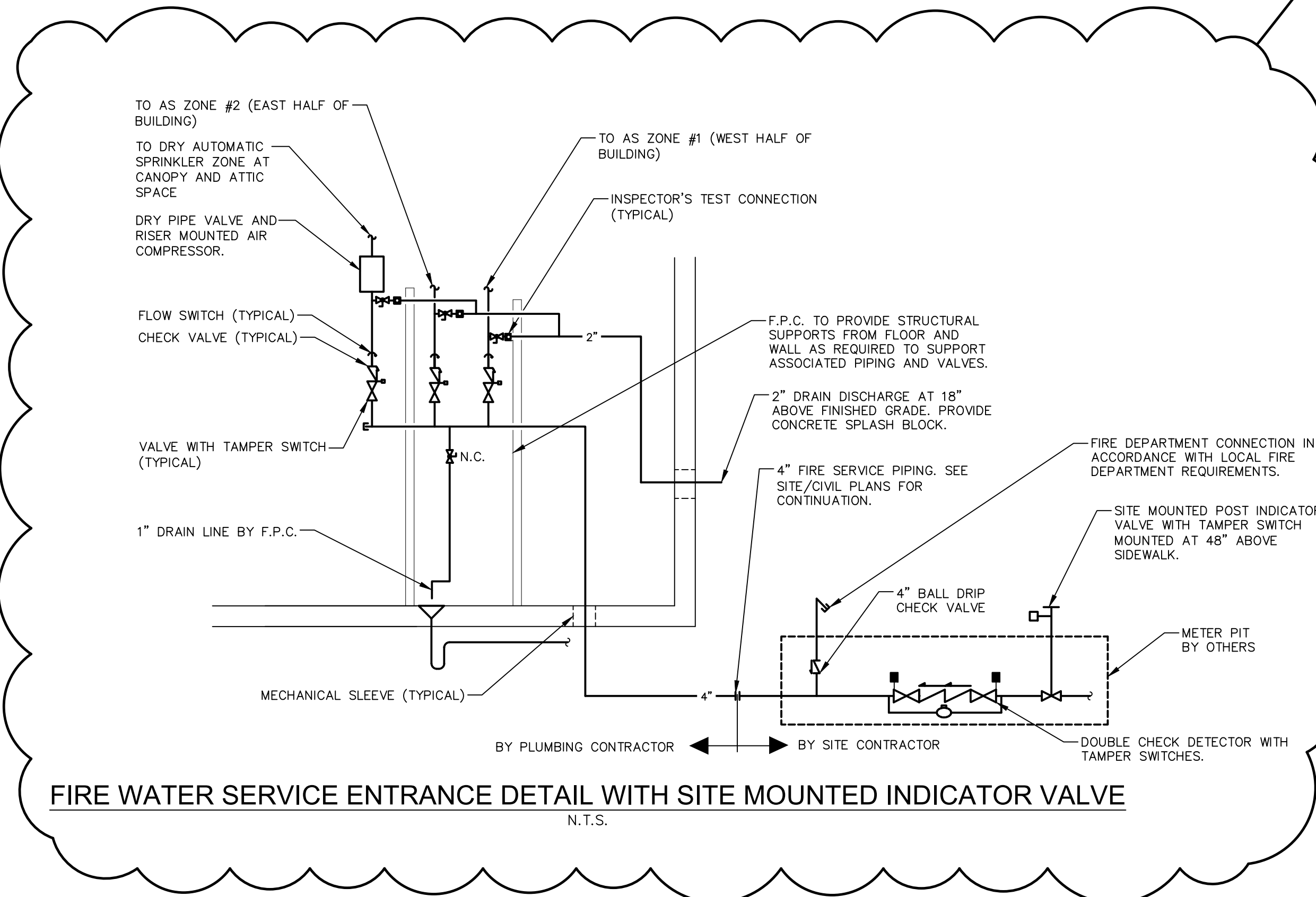
DESCRIPTION	MANUFACTURER	MODEL	REMARKS
FLOW SWITCH	POTTER-ROEMER	NO. 6200	PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND CONNECTIONS, UL-LISTED.
SUPERVISORY SWITCH	POTTER-ROEMER	NO. 6220	PROVIDE SIZES AND TYPES WHICH MATE AND MATCH PIPING AND CONNECTIONS, UL-LISTED.
TEST AND DRAIN VALVE	AGF	1000	2" VALVE WITH TEST ORIFICE AND SIGHT GLASS.
DOUBLE CHECK DETECTOR	ZURNWILKINS	350-DA	6" DOUBLE CHECK DETECTOR WITH (2) RESILIENT WEDGE OS&Y GATE VALVES. ASSE LISTED 1048. RATED FLOW OF 500 GPM AT A PRESSURE LOSS OF 4.5 PSI. OVERALL LENGTH OF 44.50 INCHES. PROVIDE WITH TAMPER SWITCHES. THE BY-PASS ASSEMBLY SHALL CONSIST OF A 5/8" X 3/4" WATER METER IN SERIES WITH A DOUBLE CHECK BACKFLOW PREVENTER.
FIRE DEPARTMENT CONNECTION	POTTER-ROEMER	WALL MOUNT	IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.
FIRE DEPARTMENT CONNECTION	POTTER-ROEMER	POST	IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.



- 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 ANNUAL 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

N.T.S.



FIRE WATER SERVICE ENTRANCE DETAIL WITH SITE MOUNTED INDICATOR VALVE

N.T.S.

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

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FIRST FLOOR PLAN - FIRE SUPP.
GERMANTOWN CROSSING
DAYTON OHIO



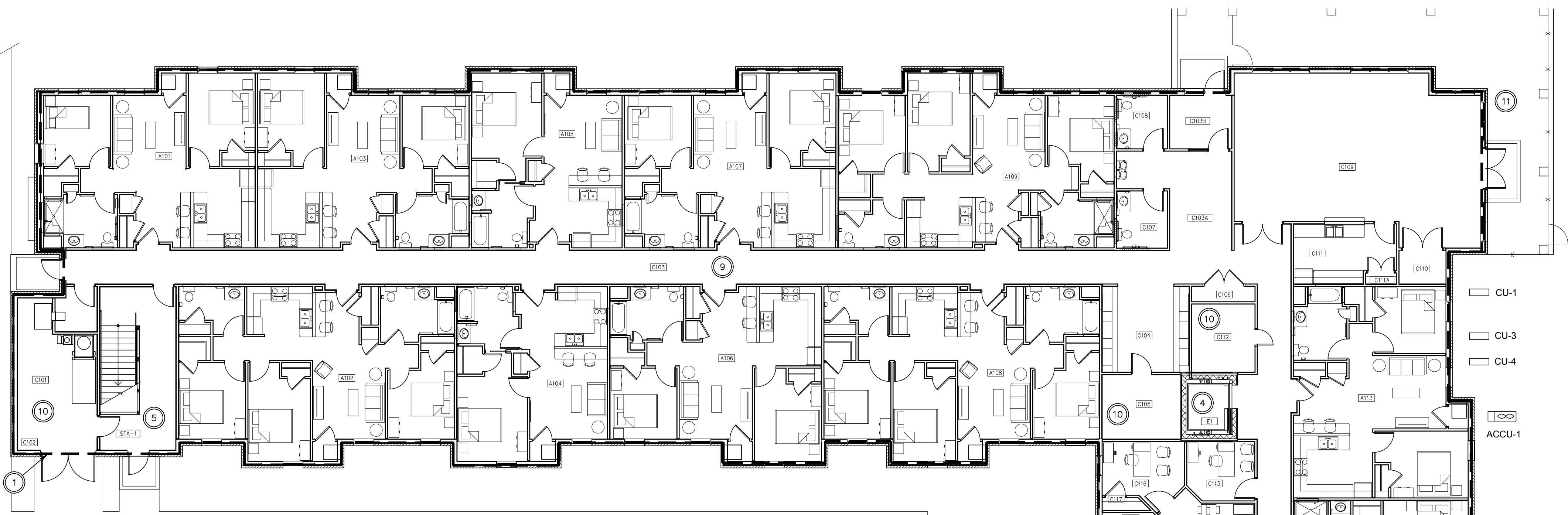
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PROJECT NUMBER

FS101
DRAWING NUMBER



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

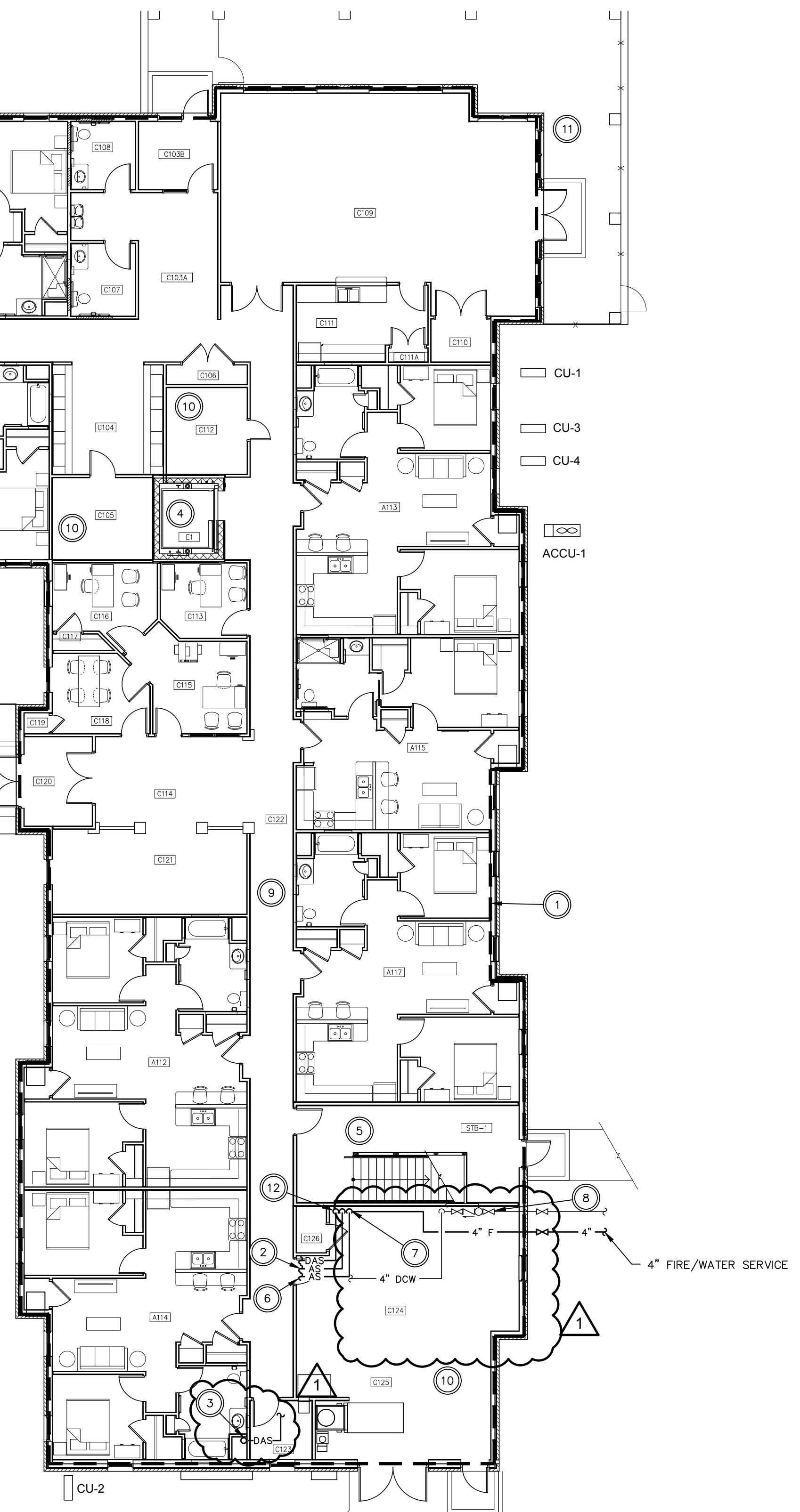
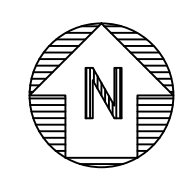
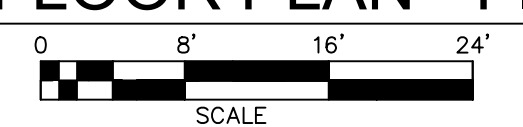
CODED NOTES

- 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. 13 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.
- INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE EAST SIDE OF THE BUILDING.
- EXTEND DRY SPRINKLER MAIN UP WITHIN CHASE AND CONTINUE TO ATTIC.
- INSTALL AUTOMATIC SPRINKLER SYSTEM IN ELEVATOR HOISTWAY AND MACHINE ROOM PER ASME 17.1 AND N.F.P.A. 13. SPRINKLER HEADS IN ELEVATOR SHAFT AND EQUIPMENT ROOM TO BE FURNISHED WITH 212 DEG. FOSIBLE LINK.
- AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A. 13.
- INSTALL GATE VALVE WITH TAMPER SWITCH, CHECK VALVE AND FLOW SWITCH AND EXTEND AUTOMATIC SPRINKLER LINE TO SERVE WEST SIDE OF THE BUILDING.
- 4" FIRE SERVICE ENTRANCE. CONTINUE UP THROUGH FLOOR TO ZONE VALVES. REFER TO SERVICE ENTRANCE DETAIL FOR FURTHER REQUIREMENTS.
- 4" DOMESTIC WATER SERVICE BY P.C.
- 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.
- ORDINARY HAZARD CLASSIFICATION.
- CANOPY OVERHANG SHALL BE PROTECTED BY DRY SPRINKLER SYSTEM. EXTEND PIPING FROM DRY SYSTEM RISER IN MECHANICAL ROOM.
- 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.

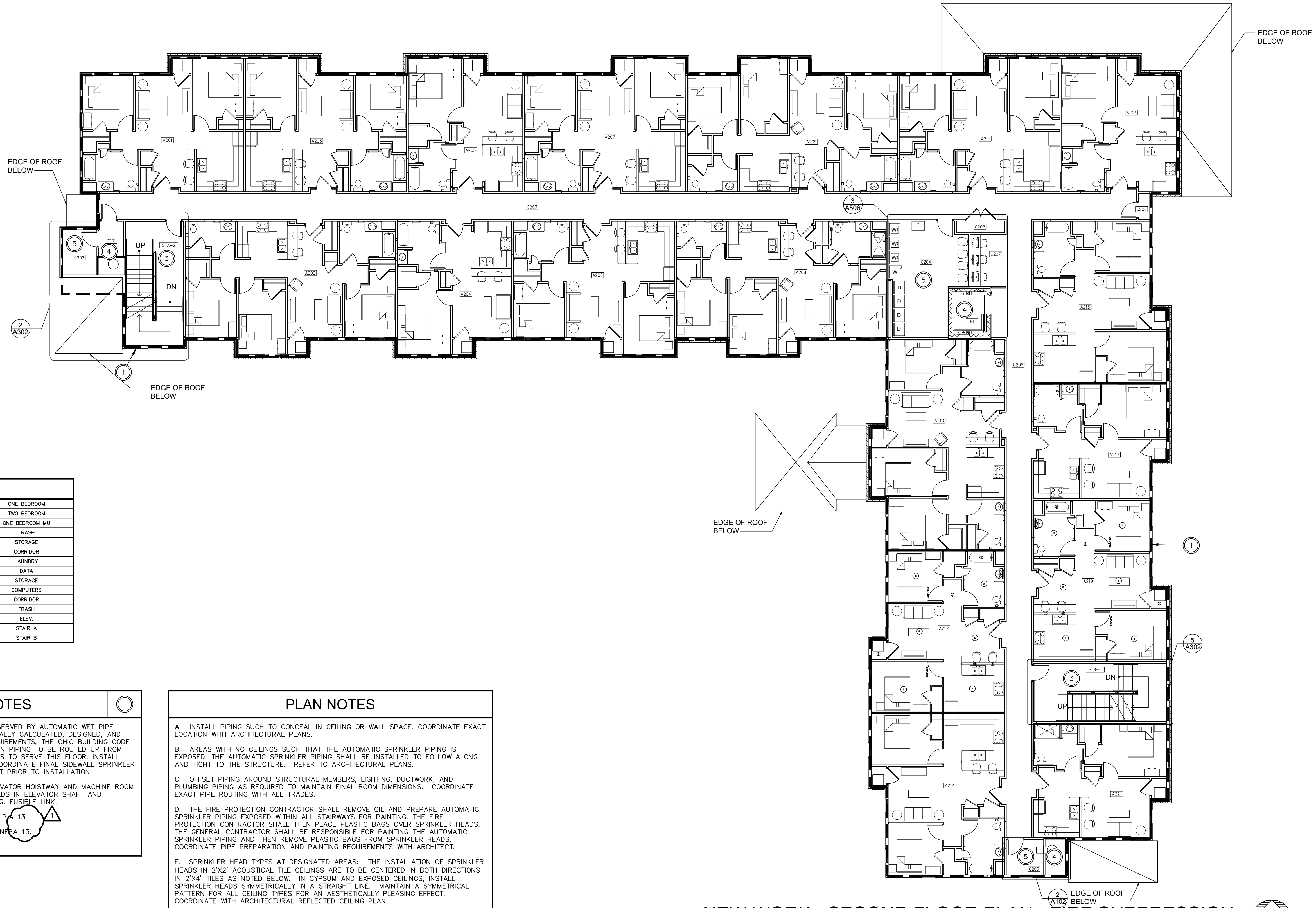
PLAN NOTES

- INSTALL PIPING SUCH TO CONCEAL IN CEILING OR WALL SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
- 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.
- OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 S&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. 13 REQUIREMENTS, THE OHIO BUILDING CODE AND LOCAL AHJ REQUIREMENTS. FIRE SUPPRESSION PIPING TO BE ROUTED UP FROM FIRST FLOOR MAINS BELOW UP WITHIN SHED 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. 13. 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. 13.
4	PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13.
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 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 - SECOND FLOOR PLAN - FIRE SUPPRESSION

0 8' 16' 24'
SCALE

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

Chris Schommer 3/31/23
SIGNATURE DATE

REVISIONS	
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SECOND FLOOR PLAN - FIRE SUPP.

GERMANTOWN CROSSING
DAYTON OHIO

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ARCHITECTS

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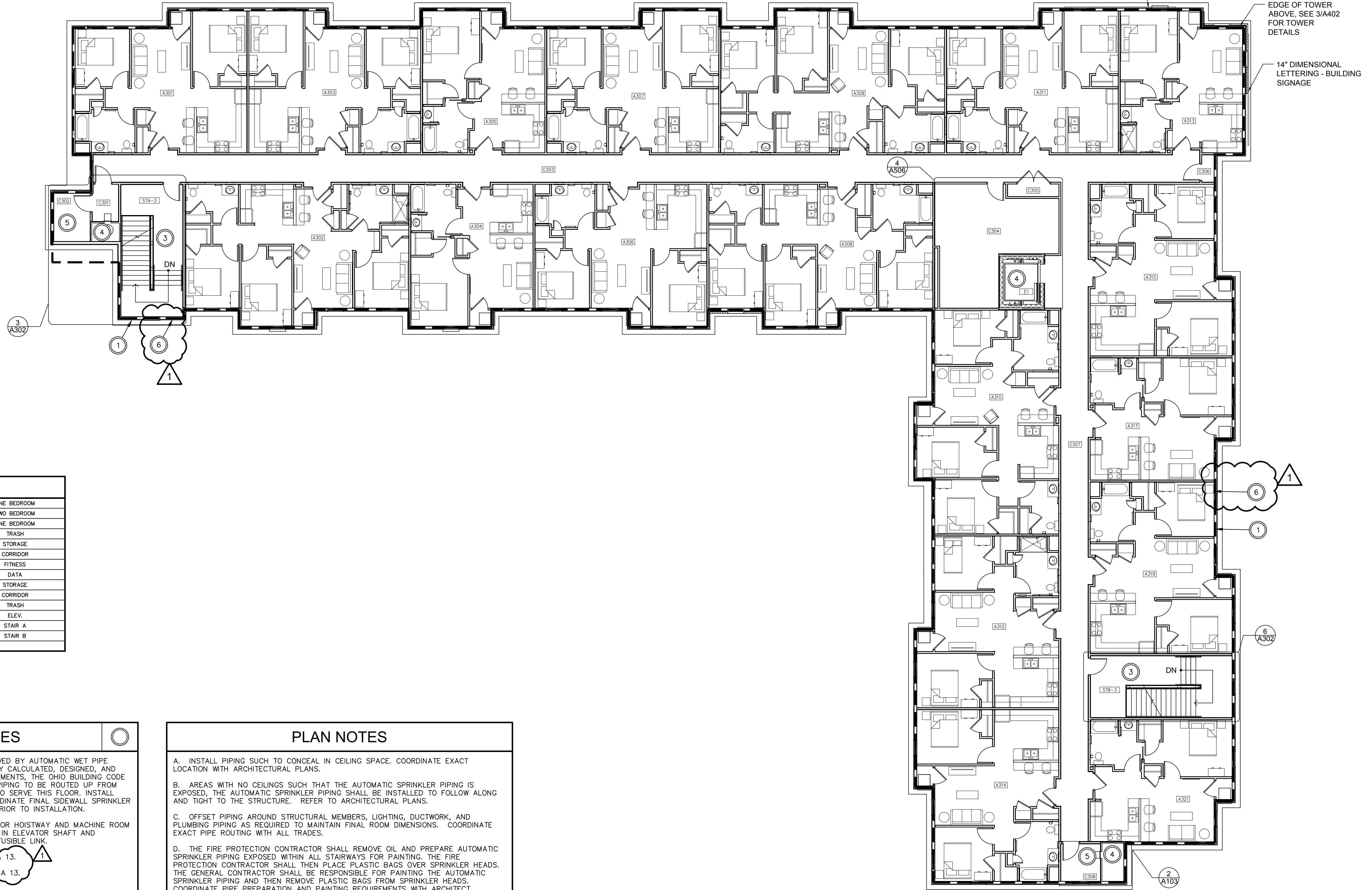
TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

FS102
DRAWING NUMBER

Drawing = M:\2022\22123\Design\Fire\22123_FS101_FS102_FS103_NEW_1ST - 3RD FLOORS_FIRE SUPPRESSION.dwg Tab = FS103 Username = spavik Date = Jul 14, 2023 - 10:50am



EDGE OF TOWER ABOVE, SEE 3/A402 FOR TOWER DETAILS
14" DIMENSIONAL LETTERING - BUILDING SIGNAGE

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		

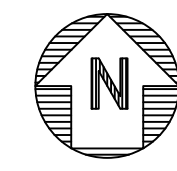
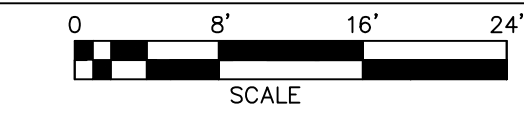
CODED NOTES

- 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 NFPA 13 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.
- INSTALL AUTOMATIC SPRINKLER SYSTEM IN ELEVATOR HOISTWAY AND MACHINE ROOM PER ASME 17.1 AND N.F.P.A. 13. SPRINKLER HEADS IN ELEVATOR SHAFT AND EQUIPMENT ROOM TO BE FURNISHED WITH 212 DEG. FUSIBLE LINK.
- AREA IN STAIRWELL TO BE SPRINKLED PER N.F.P.A. 13.
- PROTECT TRASH CHUTE IN ACCORDANCE WITH NFPA 13.
- ORDINARY HAZARD CLASSIFICATION.
- ATTIC SPACE SHALL BE PROTECTED USING A DRY SPRINKLER IN ACCORDANCE WITH NFPA 13.

PLAN NOTES

- INSTALL PIPING SUCH TO CONCEAL IN CEILING SPACE. COORDINATE EXACT LOCATION WITH ARCHITECTURAL PLANS.
- 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.
- OFFSET PIPING AROUND STRUCTURAL MEMBERS, LIGHTING, DUCTWORK, AND PLUMBING PIPING AS REQUIRED TO MAINTAIN FINAL ROOM DIMENSIONS. COORDINATE EXACT PIPE ROUTING WITH ALL TRADES.
- 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.
- 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.
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- 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.
- 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.
- 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 Schonover* 3/31/23
DATE

REVISIONS

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THIRD FLOOR PLAN - FIRE SUPP.
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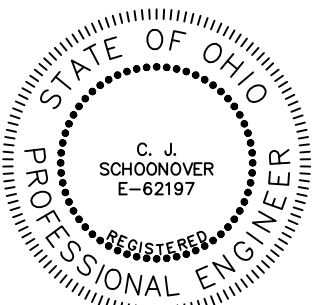
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03/31/2023
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PROJECT NUMBER

FS103
DRAWING NUMBER

HVAC SYMBOL LEGEND		
ABBREVIATION	SYMBOL	DESCRIPTION
GWS		GLYCOL WATER SUPPLY
GWR		GLYCOL WATER RETURN
RL		LIQUID REFRIGERANT LINE
RS		SUCTION REFRIGERANT LINE
CD		A/C CONDENSATE DRAIN
		GATE VALVE
		GLOBE VALVE
		BALL VALVE
		BALANCE VALVE (SEE SPECIFICATIONS)
		CHECK VALVE (SWING)
		STRAINER WITH BLOWDOWN
		UNION
		FLANGED UNION
		HUMIDITY SENSOR
		TEMPERATURE SENSOR
		THERMOSTAT
		HUMIDISTAT
		CO2 SENSOR
		OCC SENSOR
		OCCUPANT COUNTER
		DIFFUSER, REGISTER OR GRILLE (SEE SCHEDULE)
		DUCTWORK INSULATION AND MATERIAL (SEE SCHEDULE)
		LOUVERS (SEE SCHEDULE)
		CODED NOTE (SEE SCHEDULE)
		MECHANICAL EQUIPMENT (SEE SCHEDULE)
E.C.	E.C.	ELECTRICAL CONTRACTOR
F.P.C.	F.P.C.	FIRE PROTECTION CONTRACTOR
G.C.	G.C.	GENERAL CONTRACTOR
H.C.	H.C.	HVAC CONTRACTOR
P.C.	P.C.	PLUMBING CONTRACTOR
T.C.C.	T.C.C.	TEMPERATURE CONTROL SUB-CONTRACTOR
A.D.	A.D.	ACCESS DOOR
A.F.F.	A.F.F.	ABOVE FINISHED FLOOR
A.L.	A.L.	ACTIVE LENGTH
MFR.	MFR.	MANUFACTURER
N.O.	N.O.	NORMALLY OPEN
N.C.	N.C.	NORMALLY CLOSED
TYP.	TYP.	TYPICAL
E.A.	E.A.	EXHAUST AIR
R.A.	R.A.	RETURN AIR
S.A.	S.A.	SUPPLY AIR
M.O.B.D.	M.O.B.D.	MANUAL OPPOSED BLADE DAMPER
O.B.D.	O.B.D.	OPPOSED BLADE DAMPER
		FLOW DIRECTION INDICATOR (VAPOR)
1 1/2 B		1-1/2 HOUR TYPE B FIRE DAMPER
		ACCESS DOOR IN BOTTOM OF DUCT OR SIDE OF DUCT
		BLANK OFF PORTION OF DIFFUSER
		90° ELBOW WITH TURNING VANES
		SQUARE-TO-ROUND DUCT TRANSITION
		MANUAL BALANCING DAMPER
		AUTOMATIC CONTROL DAMPER

- ### HVAC NEW WORK GENERAL NOTES
- THE GENERAL NOTES LISTED HERE APPLY TO ALL HVAC DRAWINGS IN ADDITION TO ANY ADDITIONAL DRAWING NOTES ON THE INDIVIDUAL DRAWINGS.
 - REFER ALSO TO DUCTWORK MATERIAL SCHEDULE AND NOTES FOR ADDITIONAL GENERAL NOTES APPLICABLE TO DUCTWORK.
 - SEE CODED NOTES ON INDIVIDUAL DRAWING SHEETS FOR SPECIFIC INSTRUCTIONAL NOTES.
 - FIELD VERIFY EXISTING CONDITIONS.
 - COORDINATE WITH GENERAL TRADES WORK, PLUMBING WORK, FIRE PROTECTION WORK, ELECTRICAL WORK AND OTHER WORK.
 - IT IS RECOGNIZED THAT DRAWINGS MAY BE PLOTTED AT DIFFERENT SCALES, SUCH THAT PLOTTED DRAWINGS MAY VARY FROM ACTUAL OR INTENDED DIMENSIONS. THEREFORE, DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. SEM TAKES NO RESPONSIBILITY FOR ERRORS REGARDING DISCREPANCIES FROM THE ORIGINAL DRAWINGS DRAWN AT THE PROPER SCALE AND THOSE DRAWINGS THAT HAVE BEEN PLOTTED.
 - THE MECHANICAL DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT, PIPING AND DUCTWORK UNLESS DIMENSIONS ARE GIVEN OR OTHERWISE IMPLIED FOR CLEARANCES, ETC. PIPING, DUCTWORK AND MECHANICAL EQUIPMENT ARE TO BE INSTALLED ALONG THE GENERAL PLANS SHOWN ON THE DRAWINGS, BUT KEEPING IN MIND ACTUAL BUILDING CONDITIONS WHICH MUST BE CONFORMED WITH IN THE ACTUAL WORK. CONTRACTORS IN THEIR BIDS ARE REQUIRED TO INCLUDE ALL LABOR AND MATERIALS AND OTHER RELATED WORK NECESSARY TO PROVIDE MINOR OFFSETS IN MECHANICAL WORK AS REQUIRED TO AVOID CONFLICT WITH OTHER WORK ON THIS PROJECT, OR AS REQUIRED IN ORDER TO OBTAIN MAXIMUM HEAD ROOM OR EQUIPMENT ACCESS IN SPACES.
 - MAINTAIN REQUIRED RIGGING ACCESS CLEARANCES. COORDINATE CLEARANCE REQUIREMENTS WITH OTHER TRADES.
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE AND SMOKE WALLS AND RATED STRUCTURES. SEE DETAILS AND SPECIFICATIONS FOR PIPE PENETRATION SEAL REQUIREMENTS.
 - H.C. IS TO COORDINATE ALL MASONRY PENETRATION LOCATIONS AND SIZES WITH G.C.
 - COORDINATE EXACT POSITIONING OF FLOOR DRAINS WITH PLUMBING CONTRACTOR TO SERVE HVAC EQUIPMENT AS INTENDED, AND TO AVOID TRIPPING HAZARDS WITH ABOVE FLOOR DRAIN PIPING.
 - DO NOT ROUTE DUCTWORK OR PIPING OVER ELECTRICAL EQUIPMENT.
 - BALANCE AIR QUANTITY FOR RETURN AIR INLETS TO EQUAL THE SUM OF SUPPLY AIR INTRODUCED TO THE SPACE, UNLESS NOTED OTHERWISE.
 - UNLESS OTHERWISE INDICATED, ALL PIPING TO RUN GENERALLY BELOW DUCTWORK FOR ACCESS TO VALVING. DO NOT OBSTRUCT EQUIPMENT OR ACCESS DOORS. AVOID DUCTWORK OVER LIGHTS WHEREVER POSSIBLE.
 - EQUIPMENT CONNECTION ARRANGEMENTS, FLANGES, UNIONS, VALVING, ETC. ARE NOT TYPICALLY SHOWN ON PLAN VIEWS. REFER TO DETAILS AND FLOW DIAGRAMS FOR REQUIREMENTS. INSTALL ALL VALVES AND OTHER ITEMS REQUIRING OR FACILITATING MAINTENANCE IN ACCESSIBLE LOCATIONS, AND SO AS TO NOT OBSTRUCT MAINTENANCE ON EQUIPMENT SERVED.
 - SEE TEMPERATURE CONTROL DRAWINGS AND COORDINATE WITH TEMPERATURE CONTROL CONTRACTORS FOR INSTRUMENTATION DEVICES REQUIRED TO BE INSTALLED IN PIPING AND DUCTWORK, TOGETHER WITH NECESSARY CLEARANCES FOR SAME.
 - ALL AIR TERMINAL UNITS, HEATING TERMINALS AND REHEAT COILS SHALL BE PROVIDED WITH WALL-MOUNTED THERMOSTATS UNLESS NOTED ON THE PLANS OR SPECIFICATIONS TO BE EQUIPPED WITH INTEGRAL THERMOSTATS. REFER TO PLANS FOR APPROXIMATE THERMOSTAT LOCATIONS - COORDINATE WITH OTHER TRADES. IF A THERMOSTAT IS NOT SHOWN ON THE PLANS, COORDINATE LOCATION WITH ENGINEER. CONTRACTOR SHALL SUBMIT A FLOOR PLAN WITH APPROXIMATE LOCATIONS OF ALL THERMOSTATS.
 - UNLESS NOTED OTHERWISE, ALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE PROVIDED WITH A MEANS FOR BALANCING.



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

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HVAC GEN NOTES AND LEGENDS
GERMANTOWN CROSSING
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FIRST FLOOR PLAN - HVAC
GERMANTOWN CROSSING
DAYTON OHIO

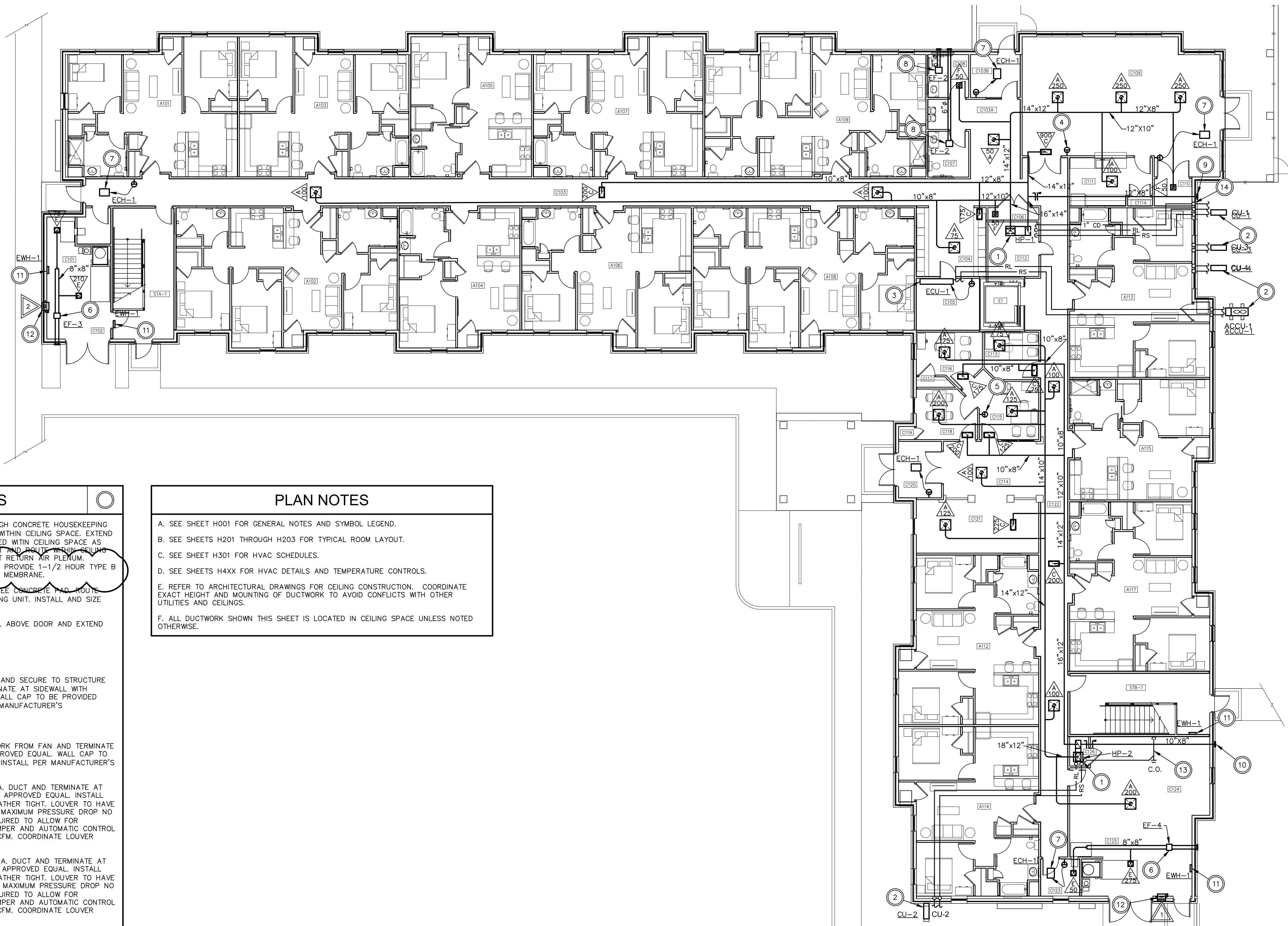


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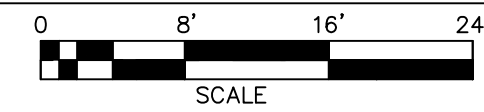


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	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	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 FROM UNIT AND ROUTE CONCEALED WITHIN CEILING SPACE AS SHOWN. UNIT TO BE MOUNTED ON FIELD BUILT RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. AND R.A. PENETRATE CEILING MEMBRANE.
2	AIR COOLED CONDENSING UNIT. MOUNT ON FROST FREE CONCRETE PAD. ROUTE RL/RS PIPING DOWN IN WALL AND EXTEND TO CONDENSING UNIT. INSTALL AND SIZE PIPING BASED ON MANUFACTURER'S RECOMMENDATIONS.
3	ENVIRONMENTAL CONDITIONING UNIT. MOUNT ON WALL ABOVE DOOR AND EXTEND RL/RS PIPING UP AND ROUTE WITHIN CEILING SPACE.
4	THERMOSTAT SERVING HP-1.
5	THERMOSTAT SERVING HP-2.
6	INLINE EXHAUST FAN. MOUNT WITHIN CEILING SPACE AND SECURE TO STRUCTURE ABOVE. EXTEND 8"x8" DUCTWORK FROM FAN AND TERMINATE AT SIDEWALL WITH GREENHECK WC-8X8 WALL CAP OR APPROVED EQUAL. WALL CAP TO BE PROVIDED WITH INTEGRAL DAMPER AND BIRDSCREEN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT.
7	ELECTRIC CEILING HEATER.
8	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.
9	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 405 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
10	EXTEND 10"x8" O.A. DUCTWORK FROM HEAT PUMP R.A. DUCT AND TERMINATE AT SIDEWALL WITH GREENHECK ESD-635-16X16 LOUVER OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND SEAL WEATHER TIGHT. LOUVER TO HAVE A FREE AREA OF NO LESS THAN 0.6 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 240 CFM. COORDINATE LOUVER FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
11	ELECTRIC WALL HEATER, SURFACE MOUNT. SEE DETAILS.
12	WALL MOUNTED LOUVER WITH CONTROL DAMPER, INSTALL 36" A.F.F.. T.C.C. TO INTERLOCK DAMPER OPERATION WITH CORRESPONDING EXHAUST FAN OPERATION. DAMPER SHALL FAIL TO NORMALLY CLOSED POSITION. SEAL AROUND LOUVER PENETRATION WEATHER TIGHT.
13	EXTEND 1" CONDENSATE DRAIN PIPING UP FROM HEAT PUMP AND ROUTE WITHIN CEILING SPACE AS SHOWN. DROP PIPING ALONG WALL AND TERMINATE ABOVE FLOOR DRAIN TO AVOID TRIP HAZARD.
14	1-1/4" CONDENSATE DRAIN PIPE FROM FLOORS ABOVE. TEE DRAIN STACK FROM FLOORS ABOVE INTO 1" CONDENSATE DRAIN FROM HP-1 AND TRANSITION TO 1-1/4". EXTEND CONDENSATE PIPING THROUGH EXTERIOR WALL TO OUTDOORS. ANGLE DRAIN PIPE DOWNWARD TO DRAIN ONTO EXTERIOR LANDSCAPING. SEAL CONDENSATE DRAIN WALL PENETRATIONS WEATHER TIGHT.

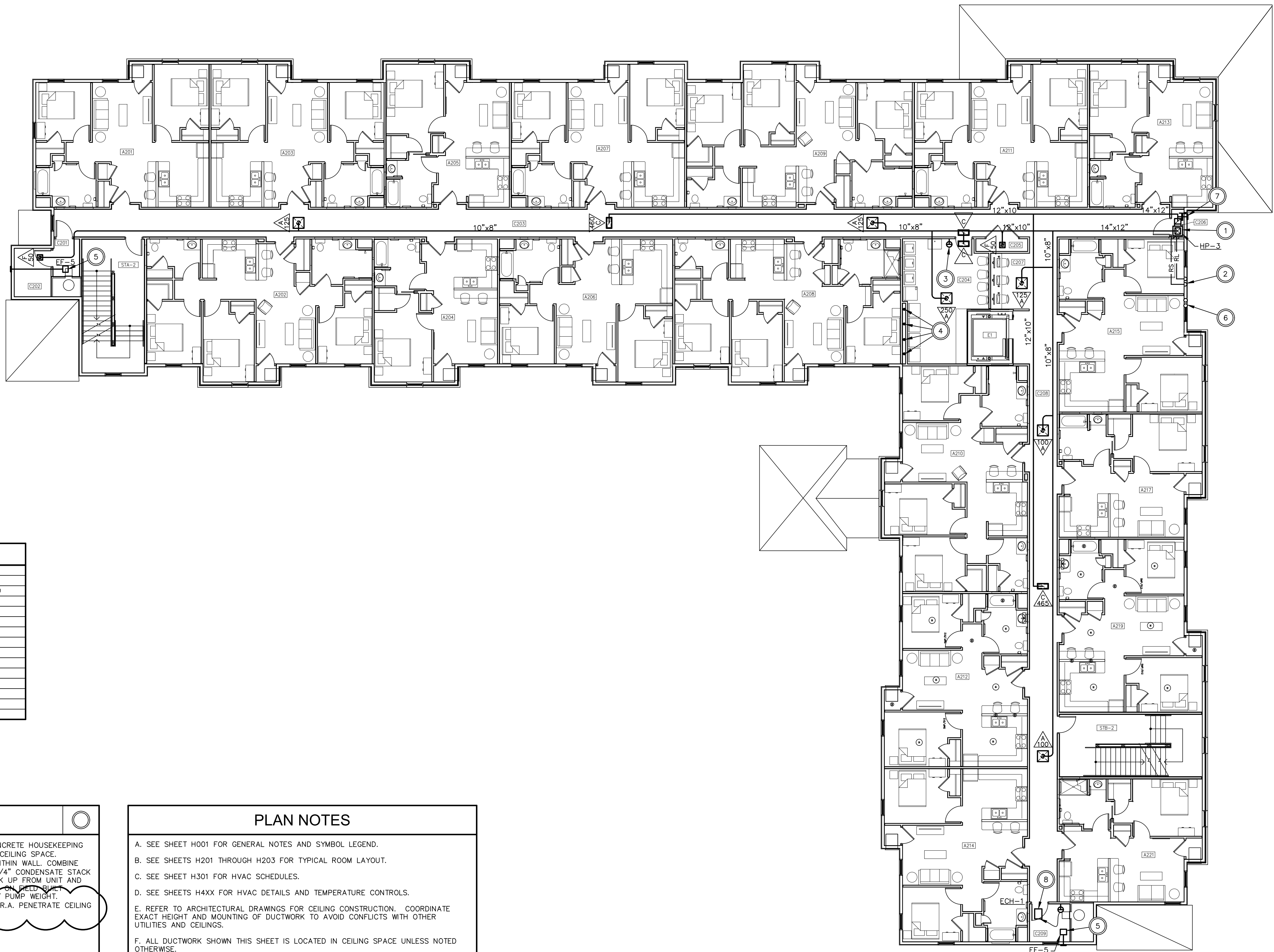
PLAN NOTES	
A.	SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
B.	SEE SHEETS H201 THROUGH H203 FOR TYPICAL ROOM LAYOUT.
C.	SEE SHEET H301 FOR HVAC SCHEDULES.
D.	SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
E.	REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT 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 - FIRST FLOOR PLAN - HVAC



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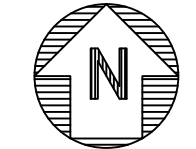
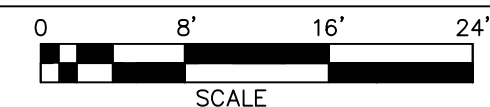


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
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 SHIELD RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. AND R.A. PENETRATE CEILING MEMBRANE. |
| 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 8" 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
Signature: *Chief Schonover* 3/31/23
DATE

REVISIONS	
▲	BULLETIN 01 - 07/17/2023

SECOND FLOOR PLAN - HVAC
GERMANTOWN CROSSING
DAYTON OHIO

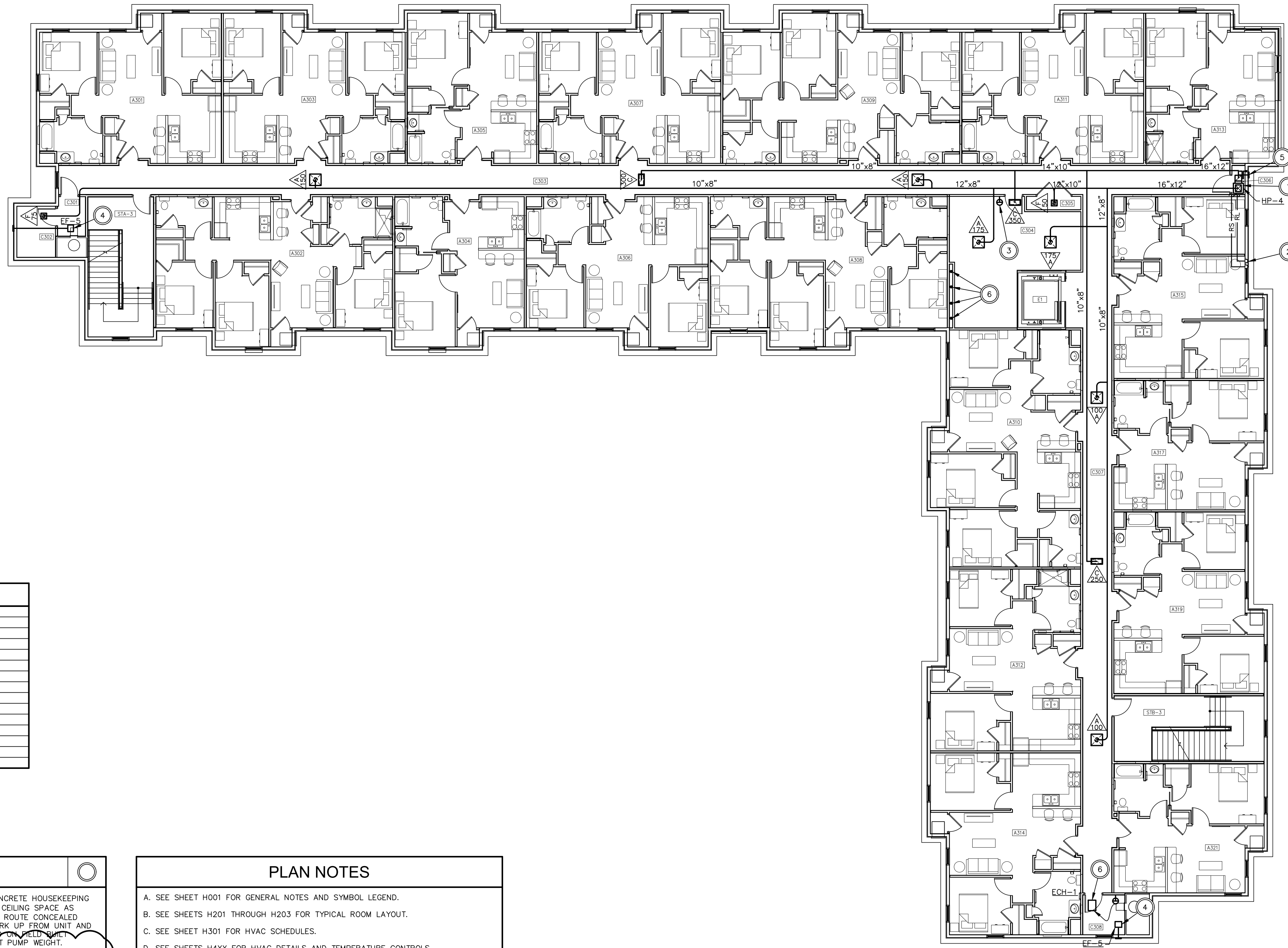


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TURNING VISIONS INTO REALITY

03/31/2023
DATE
82A21
PROJECT NUMBER
H102
DRAWING NUMBER

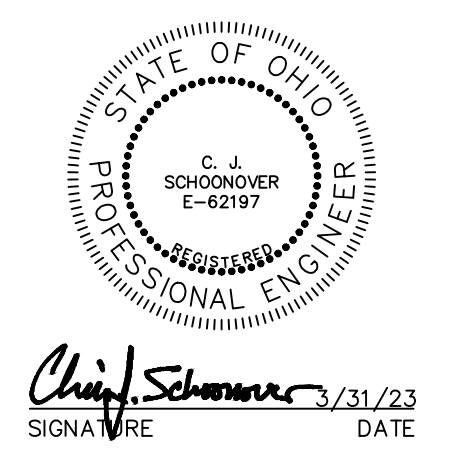
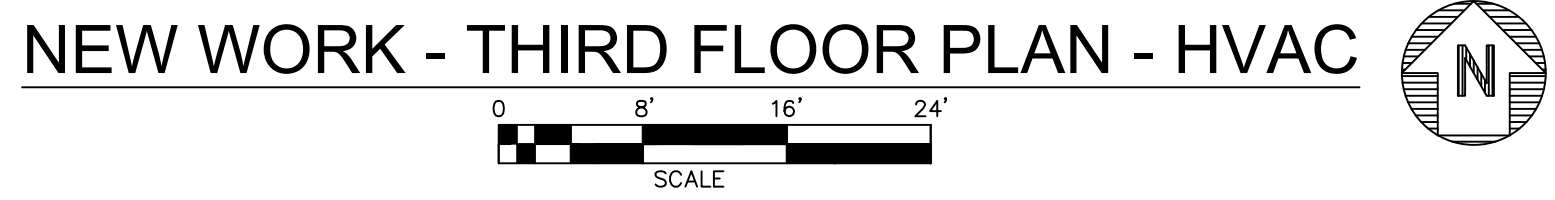
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ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE 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	<p>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 SPLIT RETURN AIR PLENUM. REINFORCE PLENUM TO CARRY FULL HEAT PUMP WEIGHT. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. AND R.A. PENETRATE CEILING MEMBRANE.</p> <p>2. ROUTE RL/RS PIPING DOWN IN WALL TO FLOOR BELOW.</p> <p>3. THERMOSTAT SERVING HP-4.</p> <p>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.</p> <p>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.</p> <p>6. 4" DRYER EXHAUST DUCT UP FROM FLOOR BELOW. EXTEND WITHIN CHASE UP THROUGH ROOF AND TERMINATE WITH EXHAUST CAP PER MANUFACTURER'S RECOMMENDATIONS.</p>

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.



REVISIONS	
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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

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Chief Schoonover 3/31/23
SIGNATURE DATE

REVISIONS

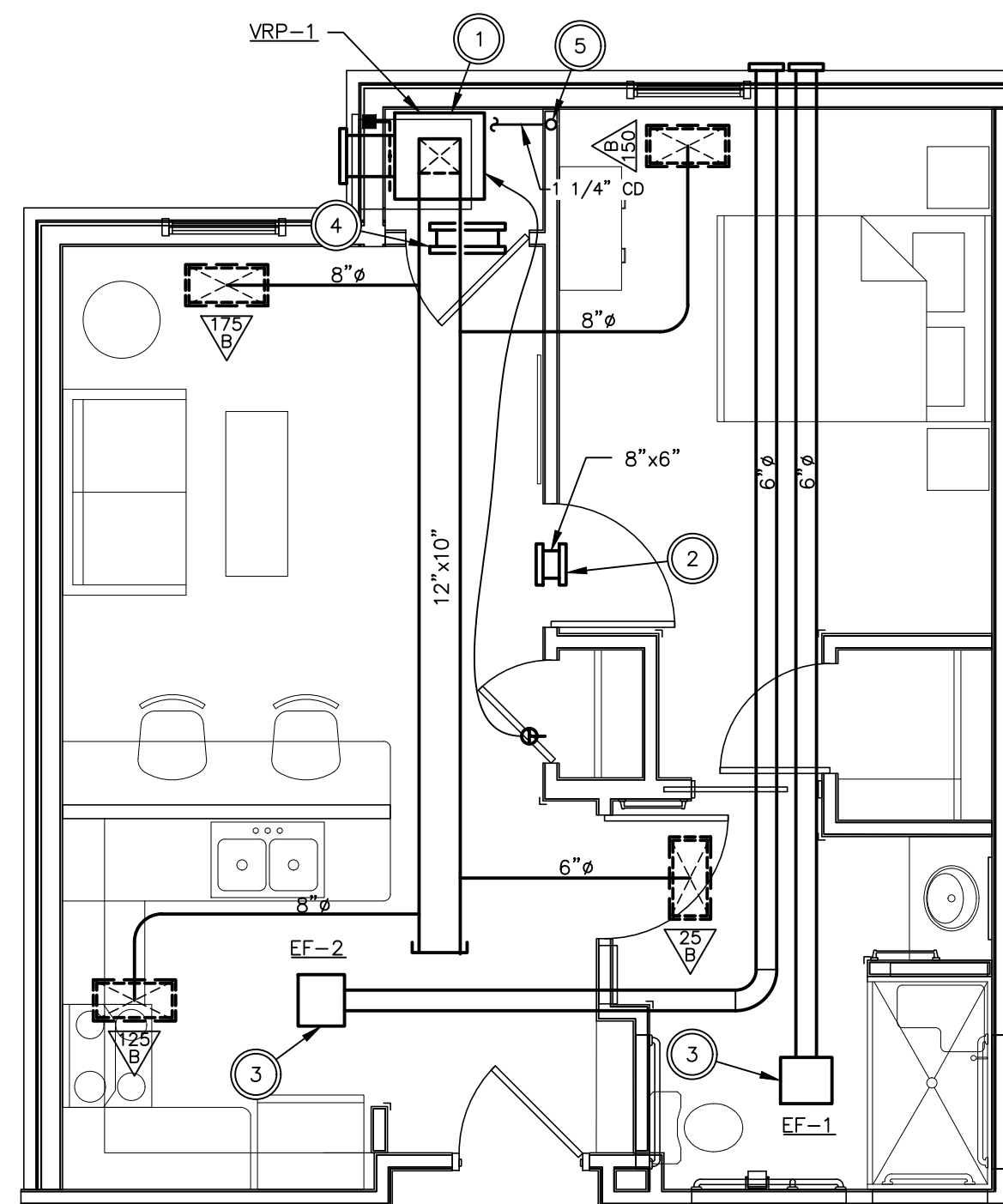
▲ BULLETIN 01 - 07/17/2023

PLAN NOTES

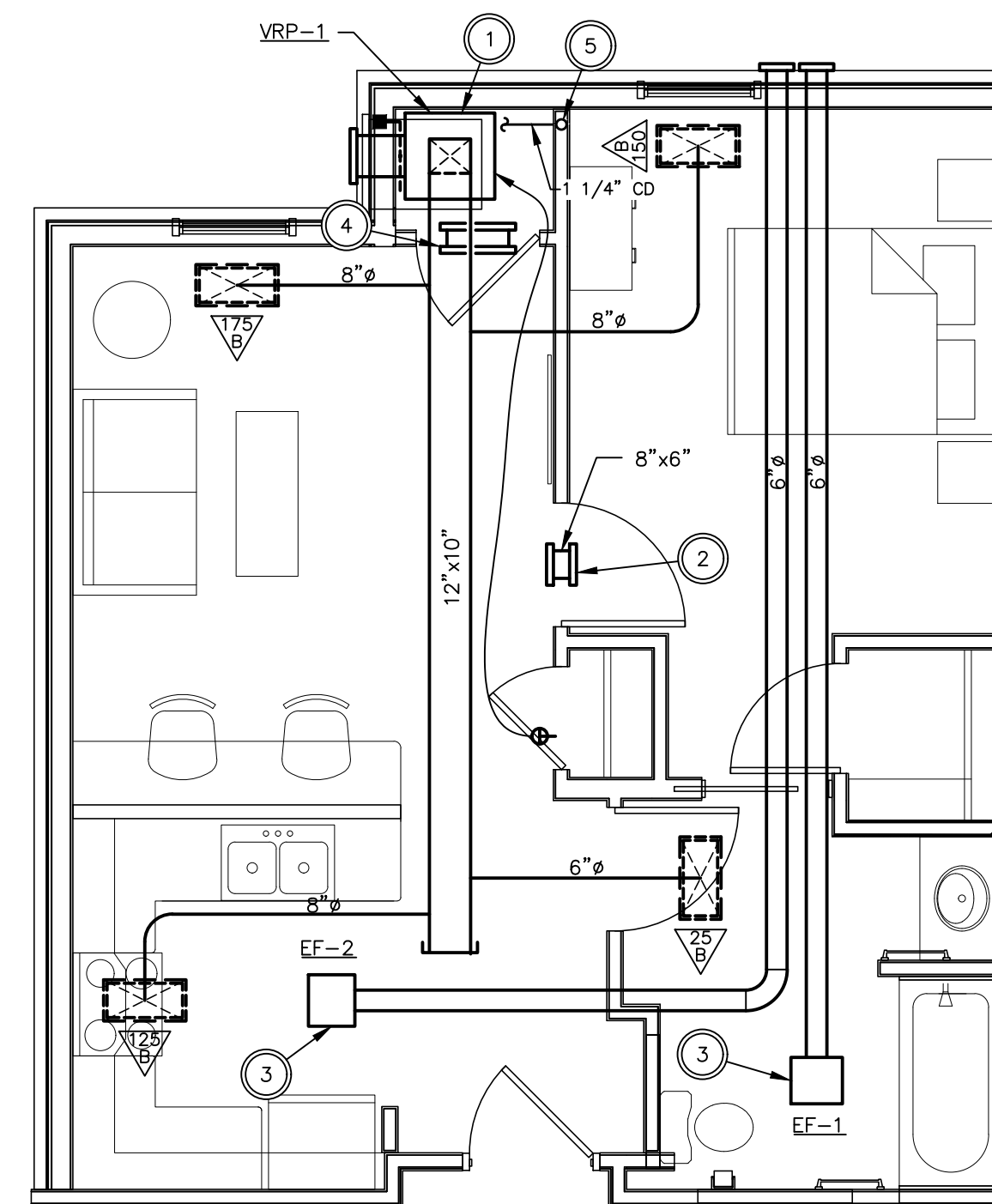
- A. SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- B. SEE SHEET H301 FOR HVAC SCHEDULES.
- C. SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER 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 S.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. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. PENETRATE CEILING MEMBRANE.
- 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.



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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TURNING VISIONS
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03/31/2023

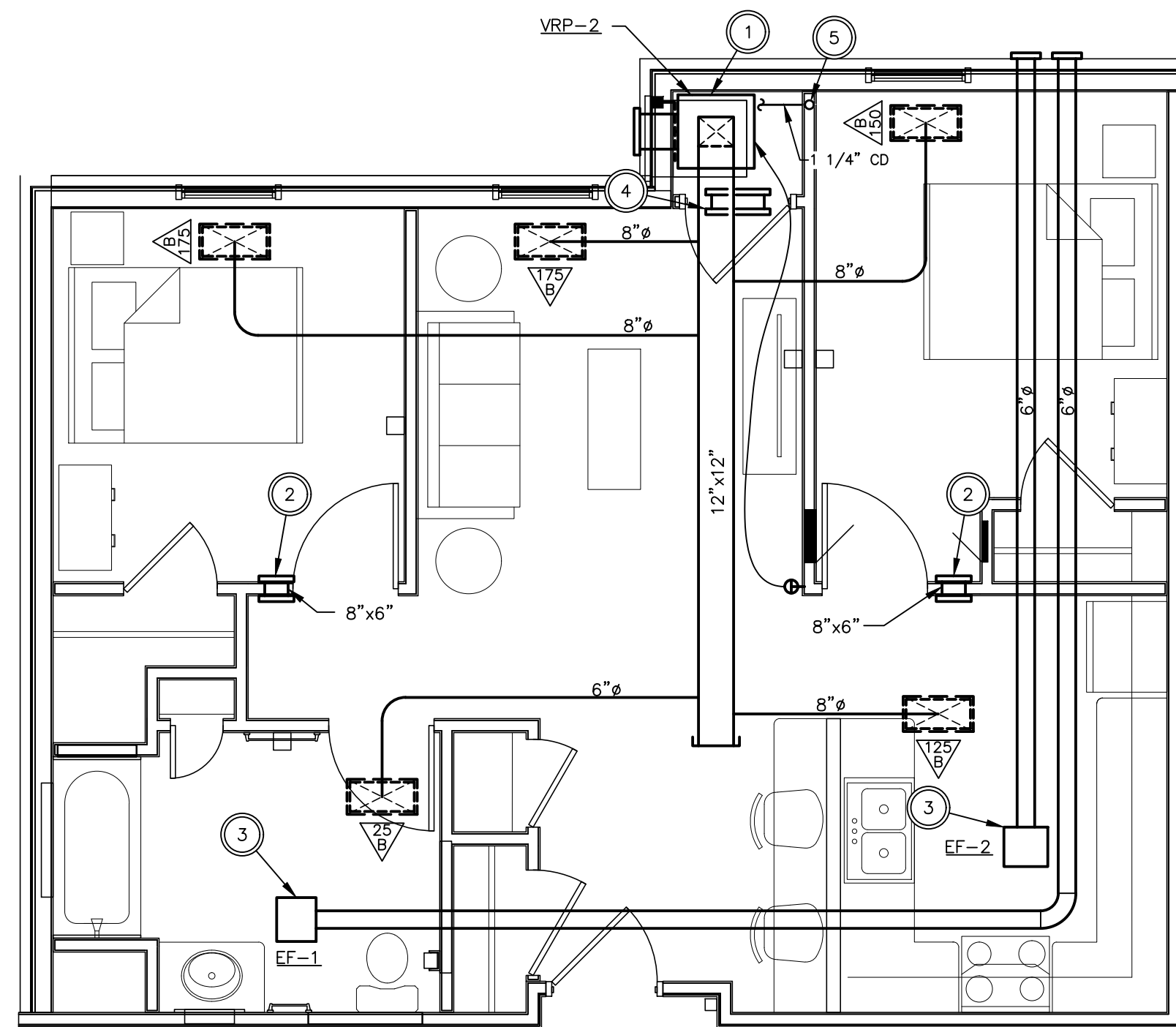
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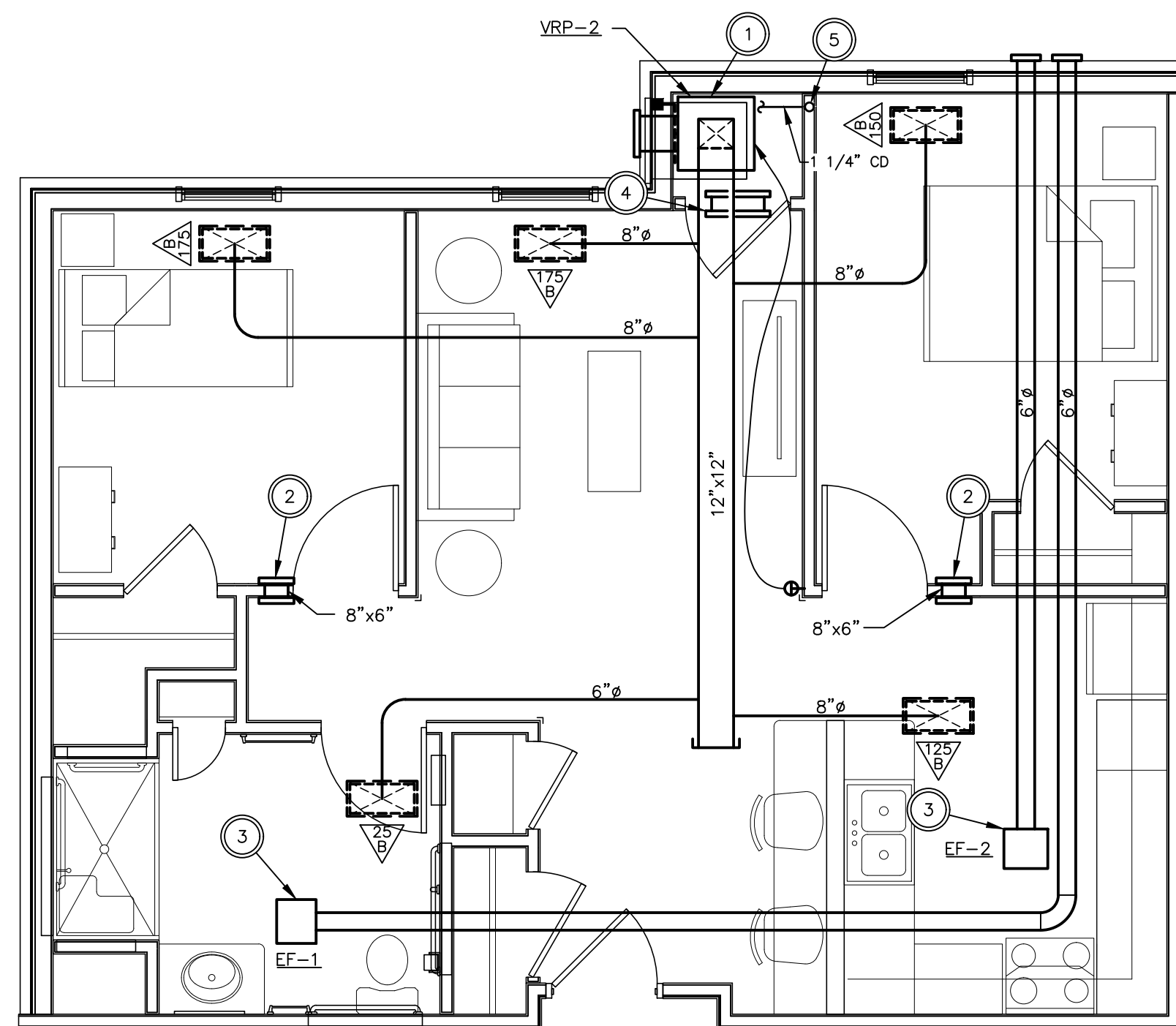
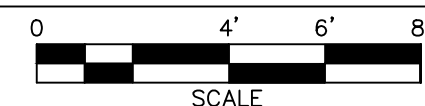
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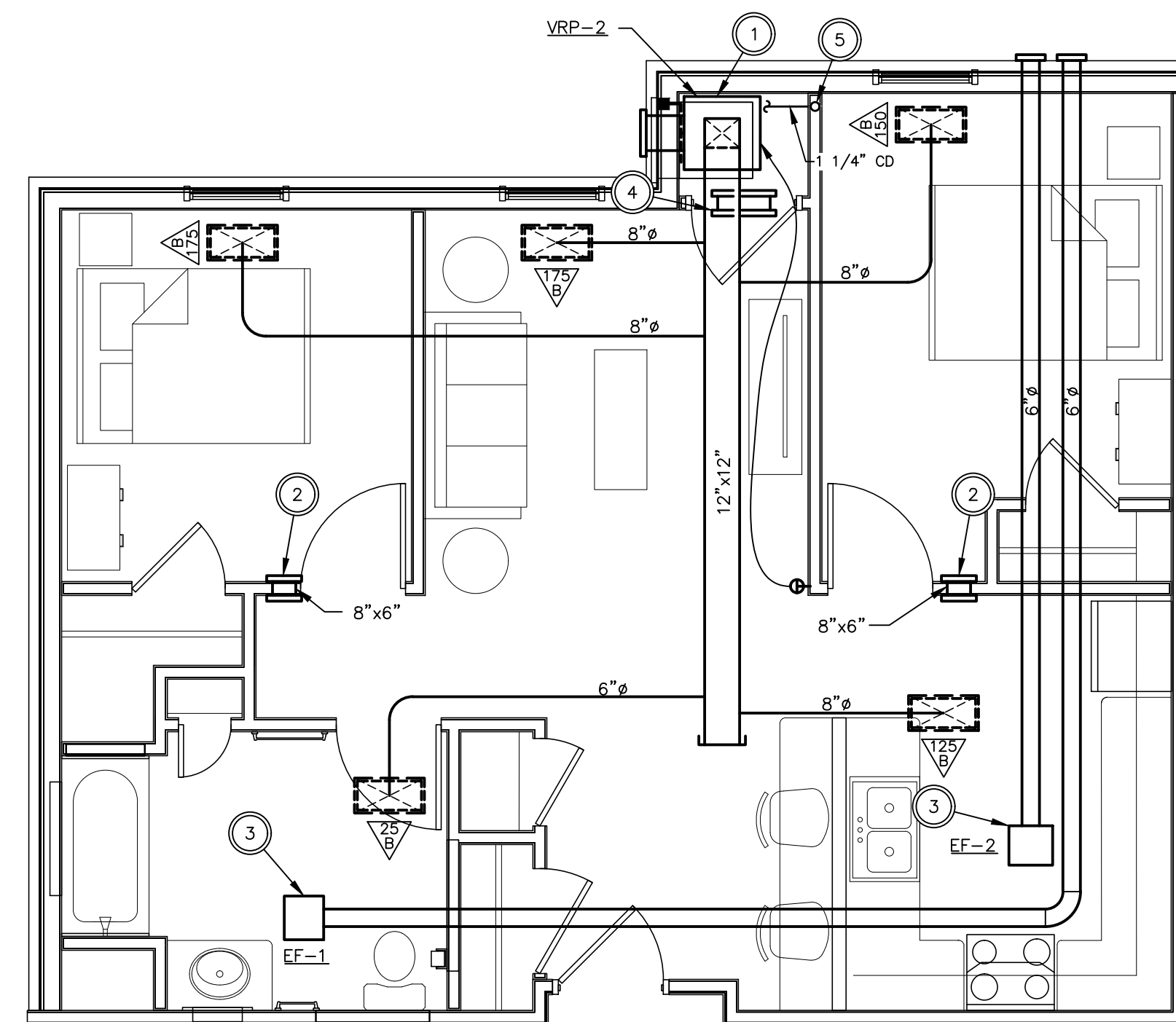
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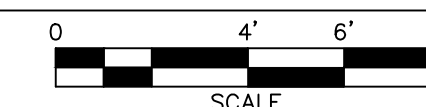
NEW WORK - TWO BEDROOM S&H - HVAC



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 FROM UNIT AND ROUTE WITHIN CEILING SPACE AS SHOWN. EXTEND S.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. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. PENETRATE CEILING MEMBRANE.
- 2. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 8"x8" 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 Schoonover 3/31/23
SIGNATURE DATE

REVISIONS
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TYPICAL TWO BEDROOM PLANS
GERMANTOWN CROSSING
DAYTON OHIO



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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

H202
DRAWING NUMBER

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Drawing = M:\2022\22123\Design\HVAC\ 22123_H203_NEW_TYP_3 BR_HVAC.dwg Tab = H203 Username = spovlik Date = Jul 14, 2023 -- 9:30am

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 FROM UNIT AND TRUNK WITHIN CEILING SPACE AS SHOWN. EXTEND O.D. 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. PROVIDE 1-1/2 HOUR TYPE B FIRE DAMPERS WHERE S.A. PENETRATE CEILING MEMBRANE.

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.

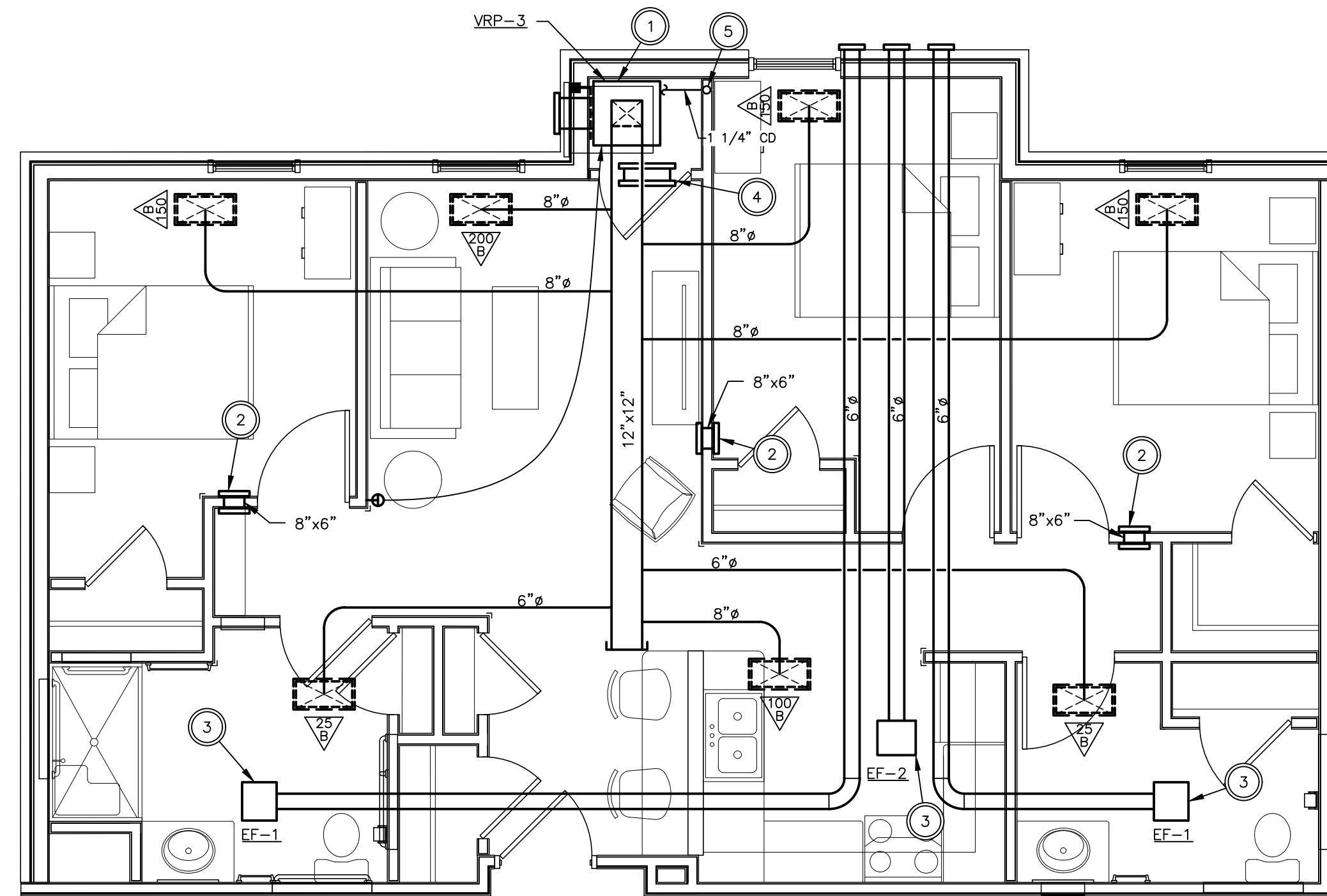
4. R.A. TRANSFER DUCT MOUNTED BELOW CEILING LINE. INSTALL GRILLE TYPE "D" WITH NOMINAL DUCT SIZE OF 18"x12" ON BOTH SIDES OF WALL.

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.

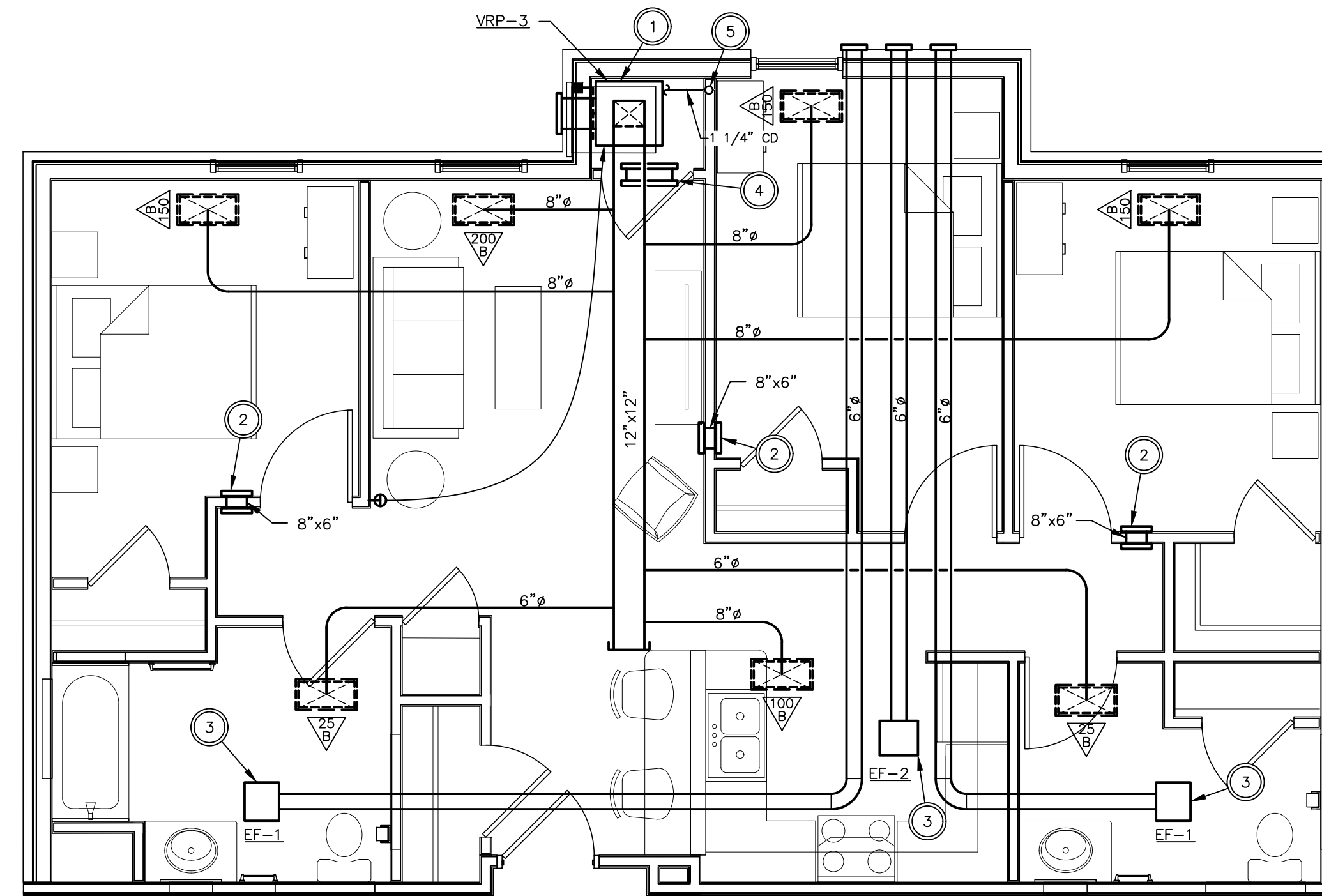
STATE OF OHIO
 C. J. SCHONOVER
 E-62197
 PROFESSIONAL ENGINEER
 Chief Schonover 3/31/23
 SIGNATURE DATE

REVISIONS

▲ BULLETIN 01 - 07/17/2023



NEW WORK - THREE BEDROOM ADA - HVAC



NEW WORK - THREE BEDROOM TYP. - HVAC



TYPICAL THREE BEDROOM PLANS
 GERMANTOWN CROSSING
 DAYTON OHIO



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TURNING VISIONS INTO REALITY

03/31/2023
 DATE

82A21
 PROJECT NUMBER

H203
 DRAWING NUMBER

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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 SOFFITS OR ATTIC SPACE AS NOTED.
 F. ALL THERMOSTATS TO BE MOUNTED AT 48" A.F.F.

CODED NOTES

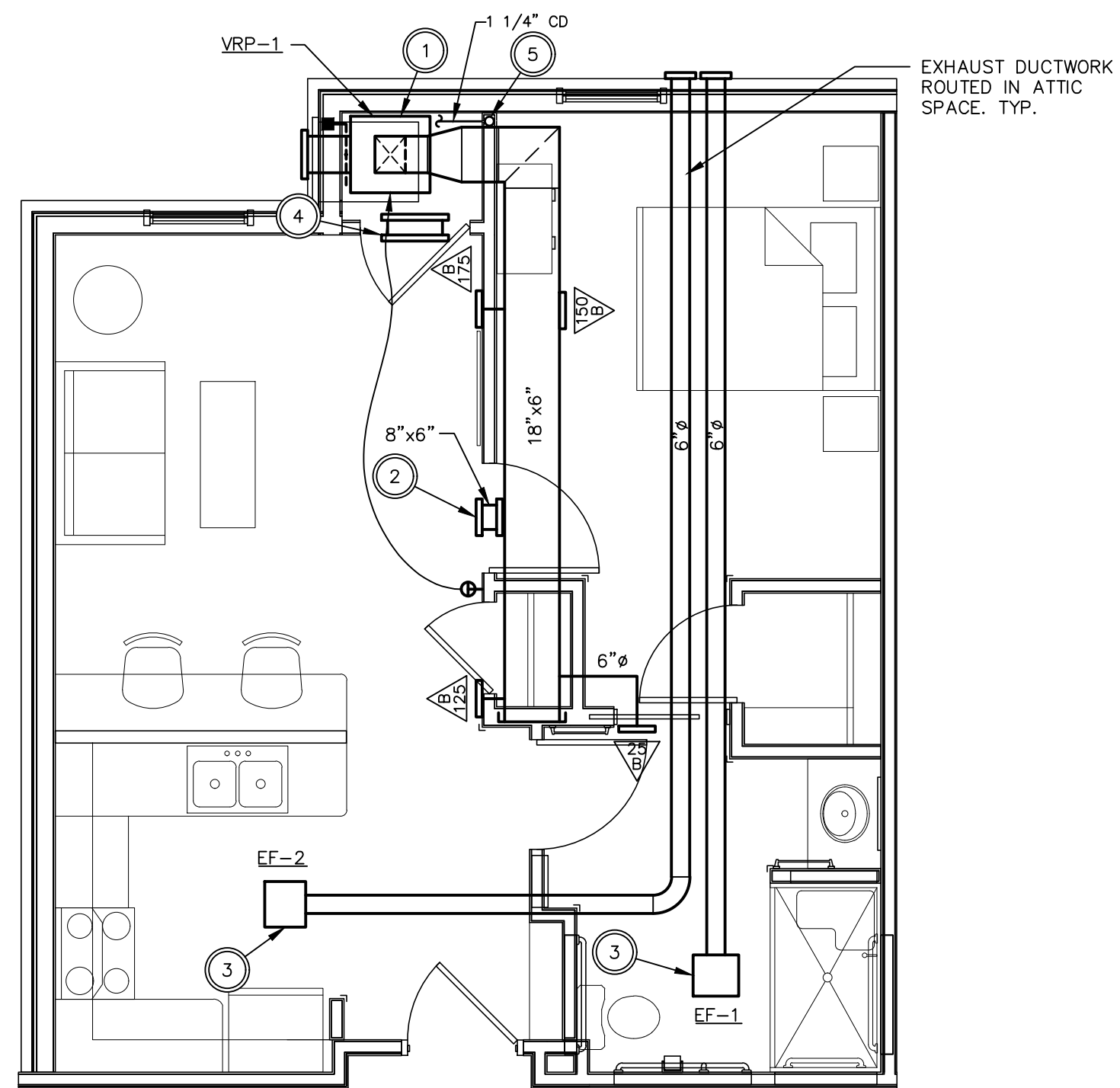
1. VARIABLE REFRIGERANT PACKAGED HEAT PUMP, MOUNT ON 4" TALL EQUIPMENT RAILS. EXTEND S.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN SOFFIT. NEW SUPPLY AIR GRILLES SHALL BE MOUNTED IN SOFFIT SIDEWALL. EXTEND O.A. DUCTWORK FROM UNIT WITH CONTROL DAMPER AND TERMINATE AT MANUFACTURER PROVIDED OUTDOOR AIR LOUVER. 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 UP TO ATTIC SPACE AND TERMINATE WITH SOFFIT VENT.
 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 TO FLOOR BELOW FOR EXTENSION ON OTHER FLOORS.



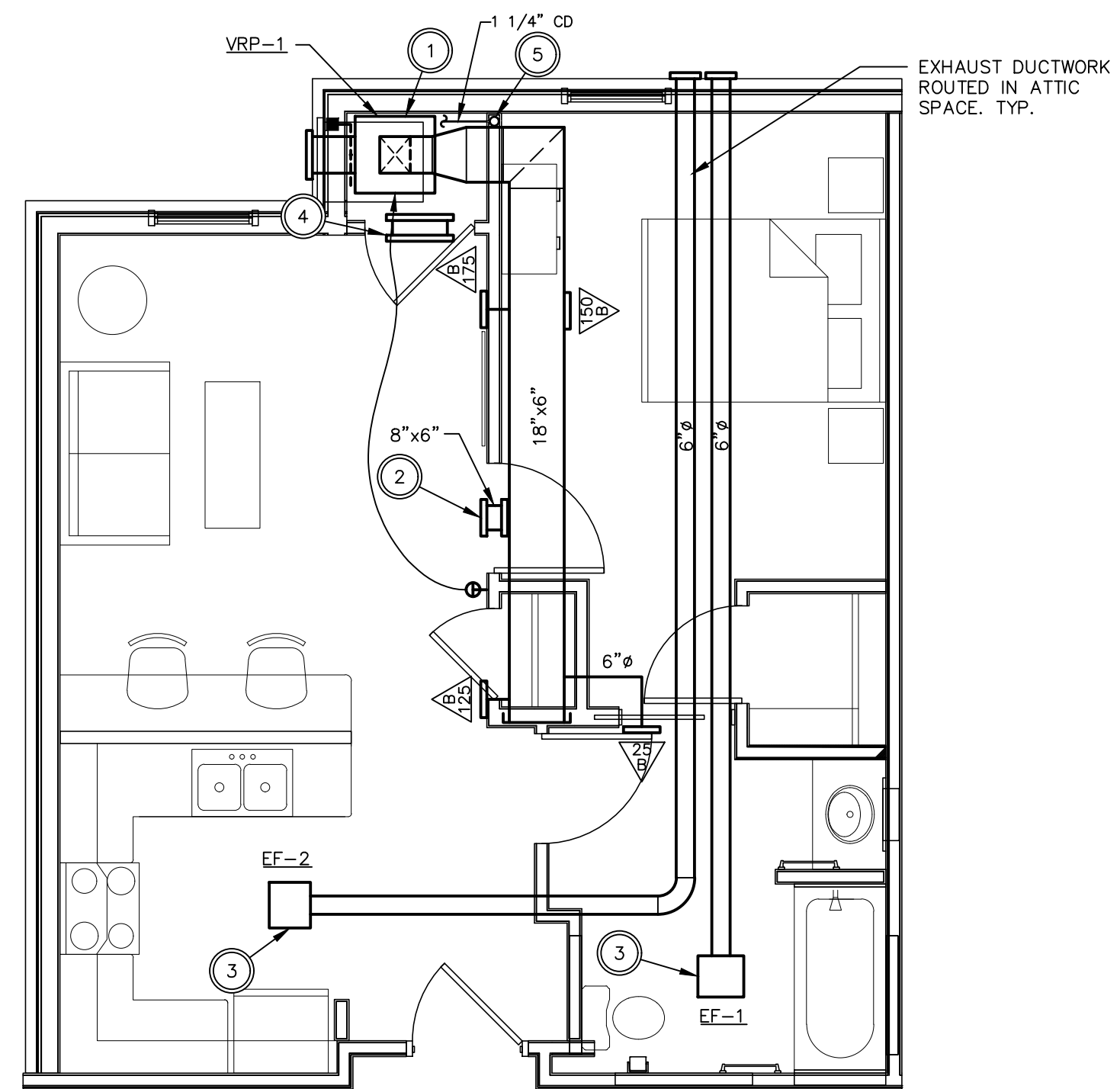
Chief Schoonover 3/31/23
 SIGNATURE DATE

REVISIONS

▲	BULLETIN 01 - 07/17/2023



**THIRD FLOOR
 NEW WORK - ONE BEDROOM ADA - HVAC**



**THIRD FLOOR
 NEW WORK - ONE BEDROOM TYP. - HVAC**



3RD FLOOR ONE BEDROOM PLANS

GERMANTOWN CROSSING
 DAYTON OHIO



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**TURNING VISIONS
 INTO REALITY**

03/31/2023

DATE

82A21

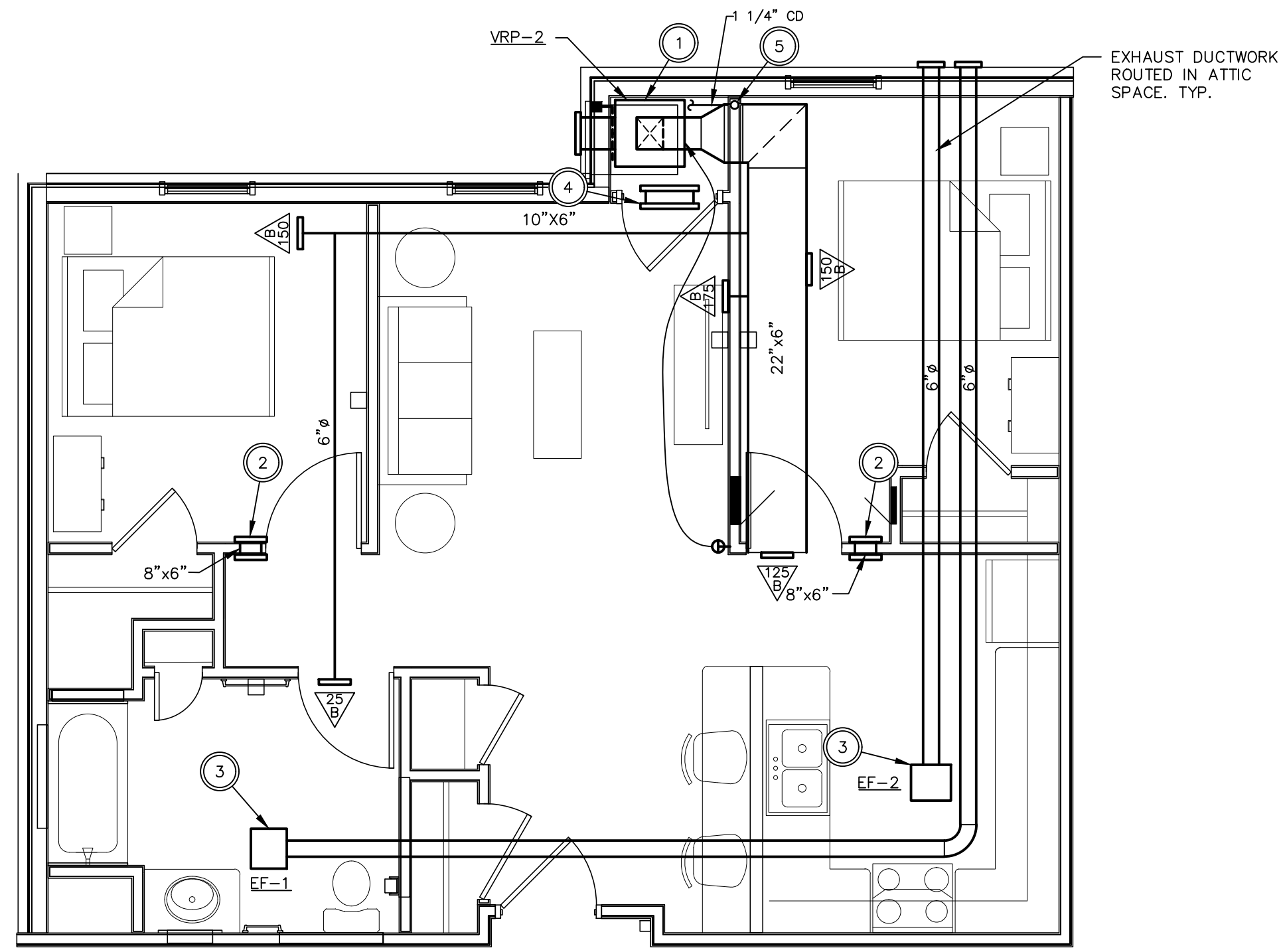
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H204

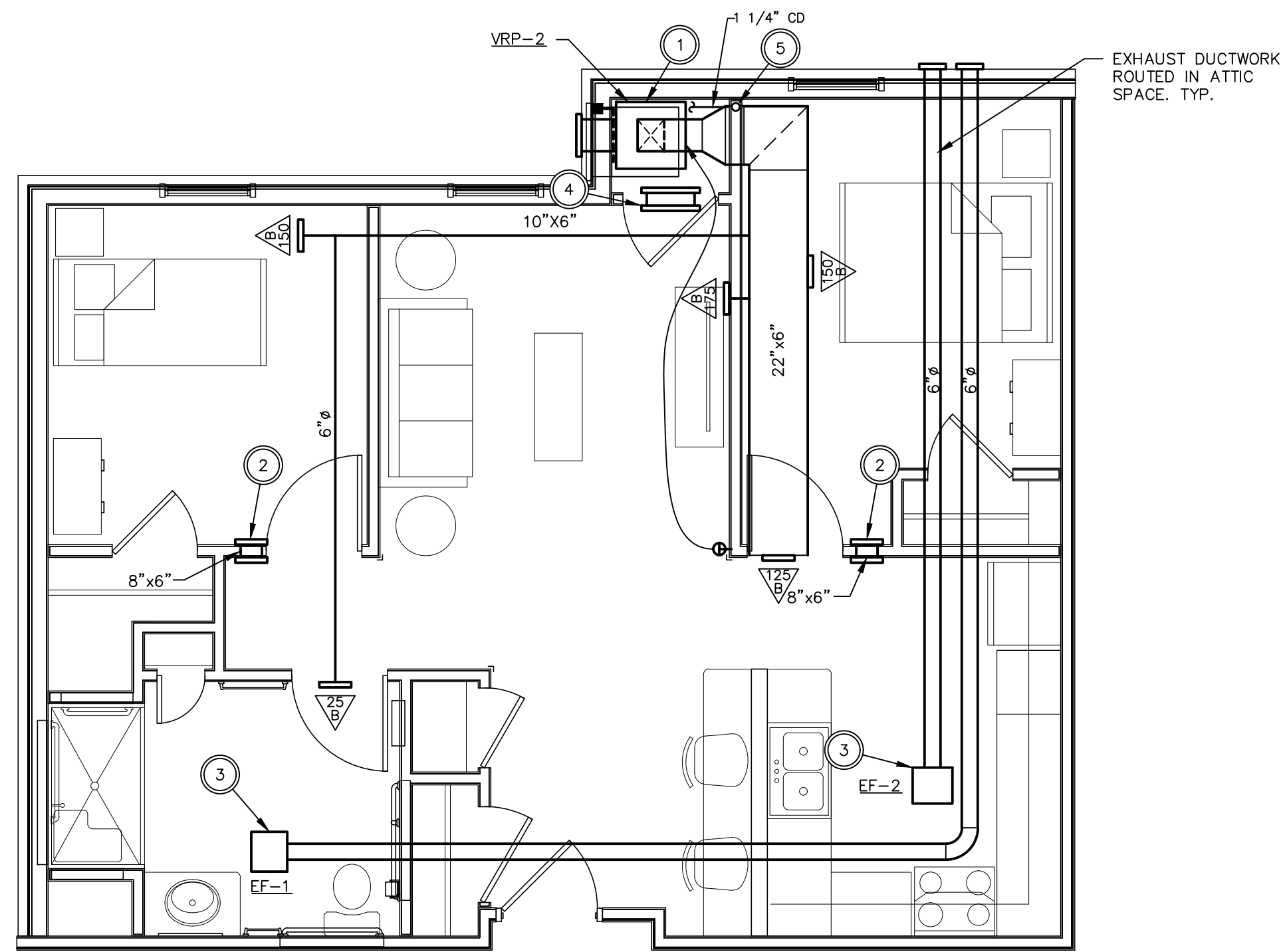
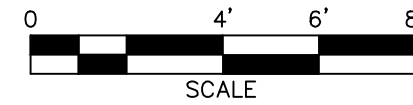
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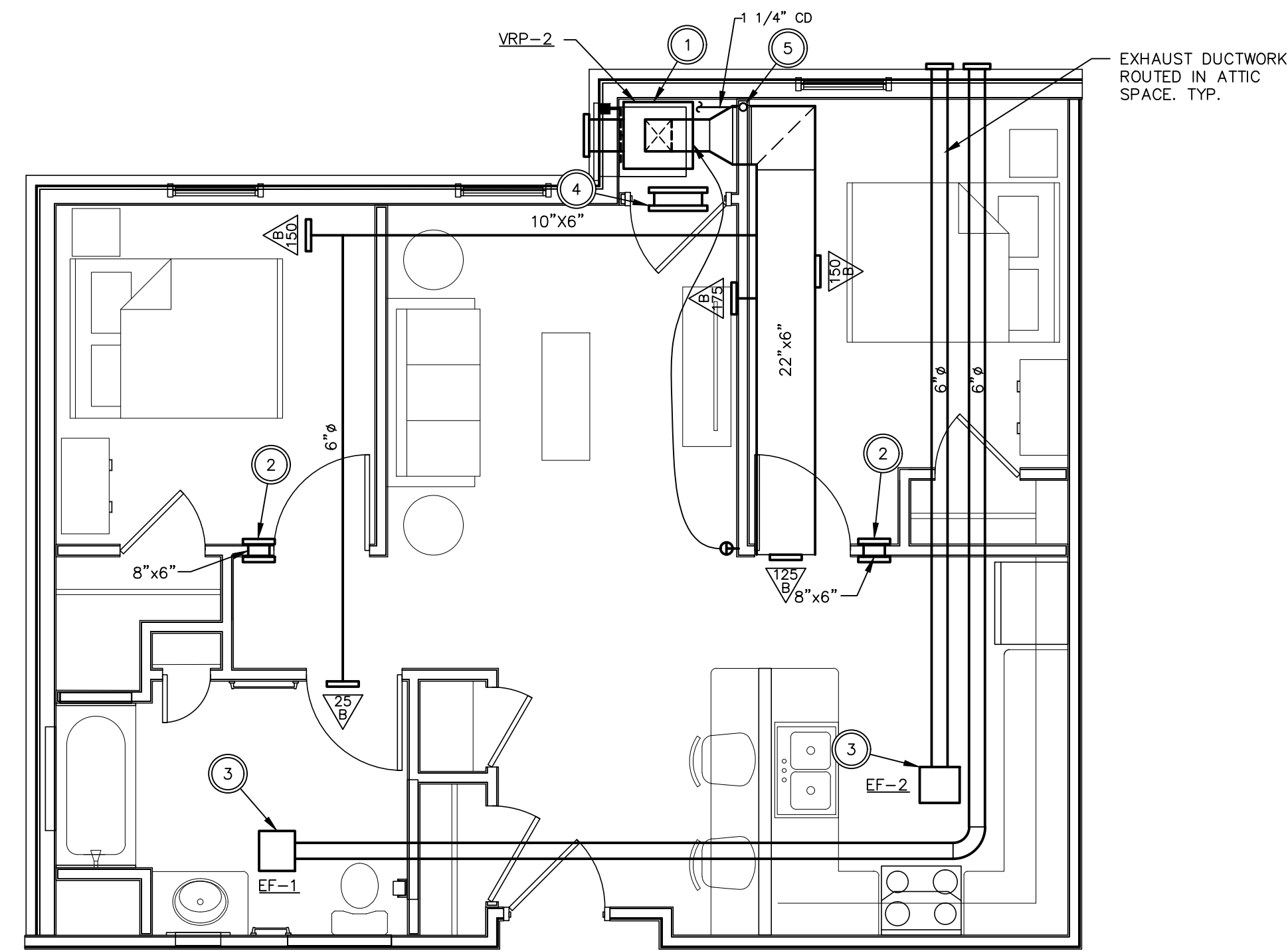
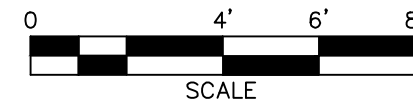
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THIRD FLOOR
NEW WORK - TWO BEDROOM S&H - HVAC



THIRD FLOOR
NEW WORK - TWO BEDROOM ADA - HVAC



THIRD FLOOR
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 SOFFITS OR ATTIC SPACE AS NOTED.
- 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 SOFFIT. NEW SUPPLY AIR GRILLES SHALL BE MOUNTED IN SOFFIT SIDEWALL. 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 Schoonover 3/31/23
SIGNATURE DATE

REVISIONS

BULLETIN 01 - 07/17/2023

3RD FLOOR TWO BEDROOM PLANS

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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

H205
DRAWING NUMBER

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Chief Schoonover 3/31/23
SIGNATURE DATE

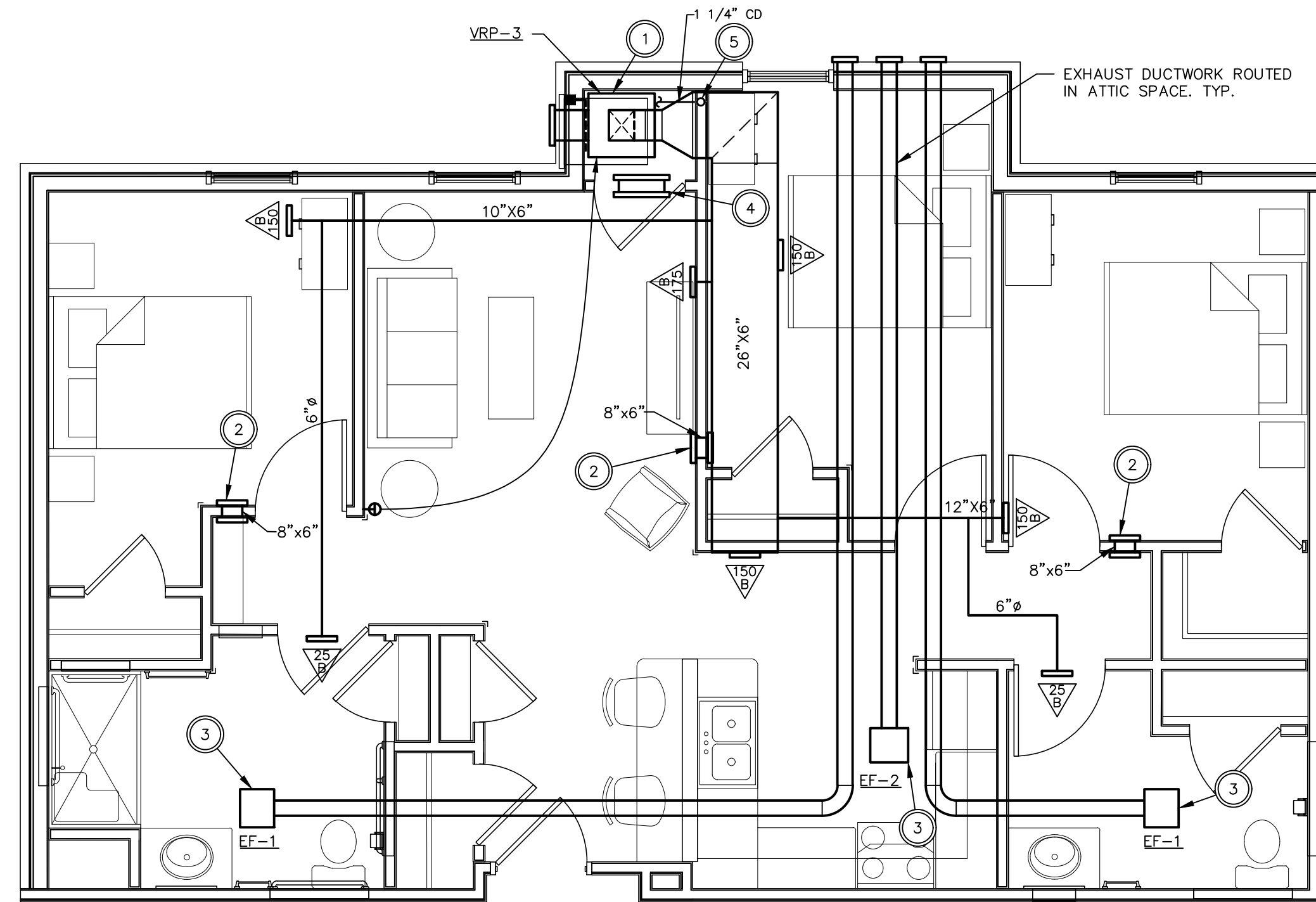
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PLAN NOTES

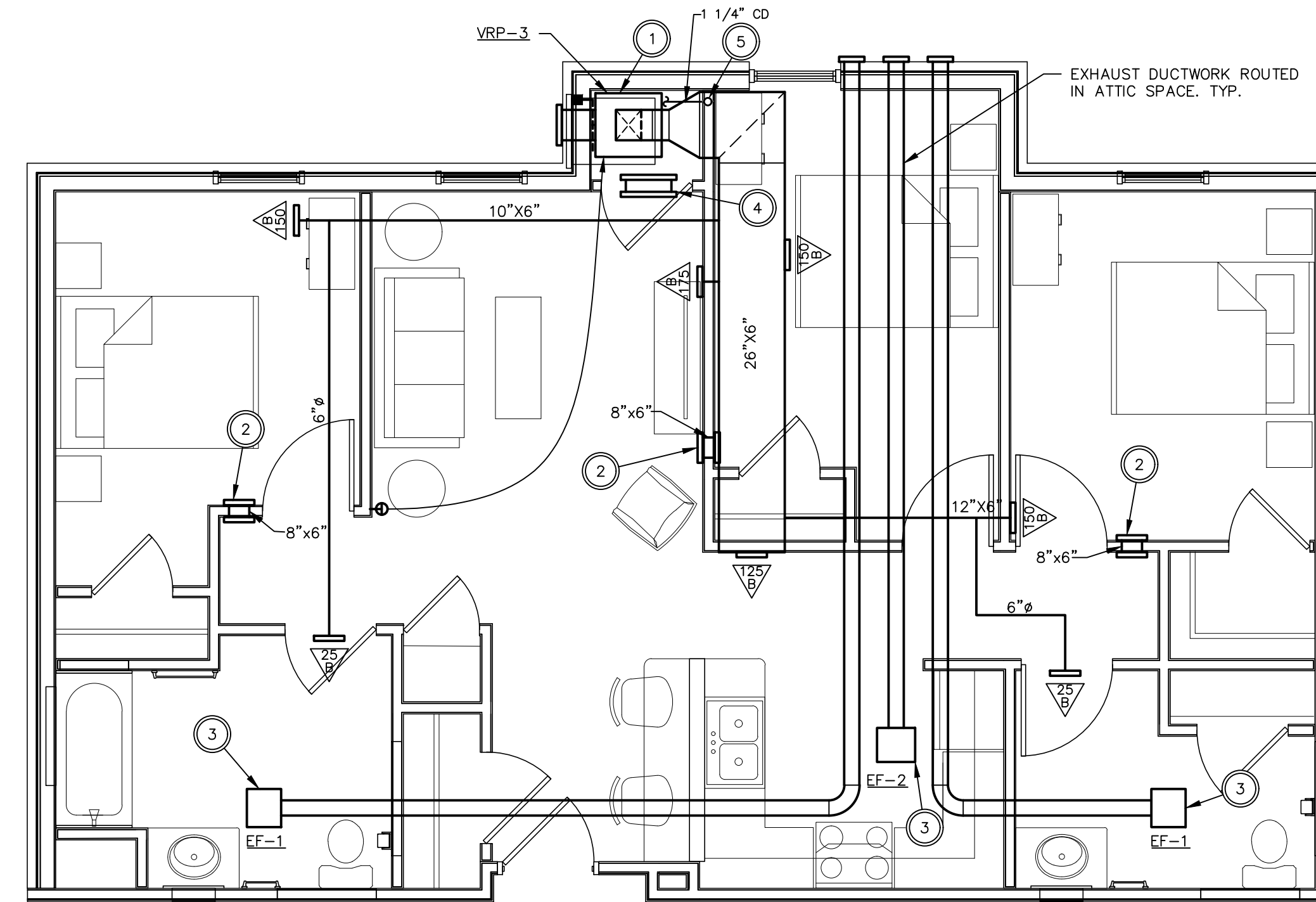
- A. SEE SHEET H001 FOR GENERAL NOTES AND SYMBOL LEGEND.
- B. SEE SHEET H301 FOR HVAC SCHEDULES.
- C. SEE SHEETS H4XX FOR HVAC DETAILS AND TEMPERATURE CONTROLS.
- D. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING CONSTRUCTION. COORDINATE EXACT HEIGHT AND MOUNTING OF DUCTWORK TO AVOID CONFLICTS WITH OTHER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

CODED NOTES

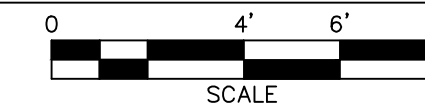
- 1. VARIABLE REFRIGERANT PACKAGED HEAT PUMP, MOUNT ON 4" TALL EQUIPMENT RAILS. EXTEND S.A. DUCTWORK UP FROM UNIT AND ROUTE WITHIN SOFFIT. NEW SUPPLY AIR GRILLES SHALL BE MOUNTED IN SOFFIT SIDEWALL. EXTEND O.A. DUCTWORK FROM UNIT WITH CONTROL DAMPER AND TERMINATE AT MANUFACTURER PROVIDED OUTDOOR AIR LOUVER. COORDINATE DUCT SIZE WITH LOUVER SIZE. SEAL LOUVER WALL PENETRATION WEATHER TIGHT.
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- 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.



**THIRD FLOOR
 NEW WORK - THREE BEDROOM ADA - HVAC**



**THIRD FLOOR
 NEW WORK - THREE BEDROOM TYP. - HVAC**



3RD FLOOR THREE BEDROOM PLANS
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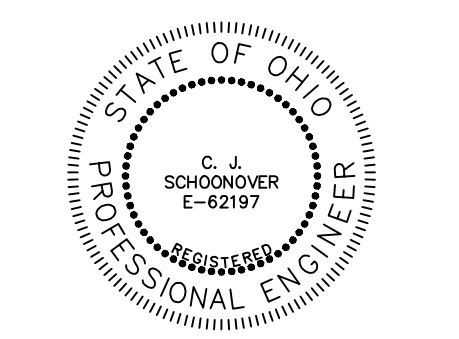
**TURNING VISIONS
 INTO REALITY**

03/31/2023
 DATE

82A21
 PROJECT NUMBER

H206
 DRAWING NUMBER

1



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, and a grid of CFM values (50-1000) for various diffuser types (A-F).

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
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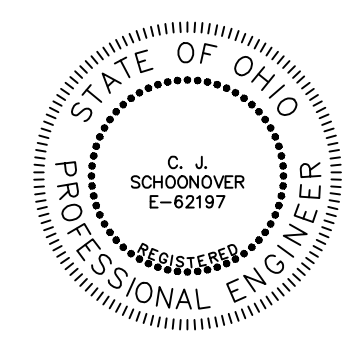
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03/31/2023
DATE
82A21
PROJECT NUMBER

H301
DRAWING NUMBER

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

REVISIONS

DETAILS, TEMP. CONTROLS - HVAC
GERMANTOWN CROSSING
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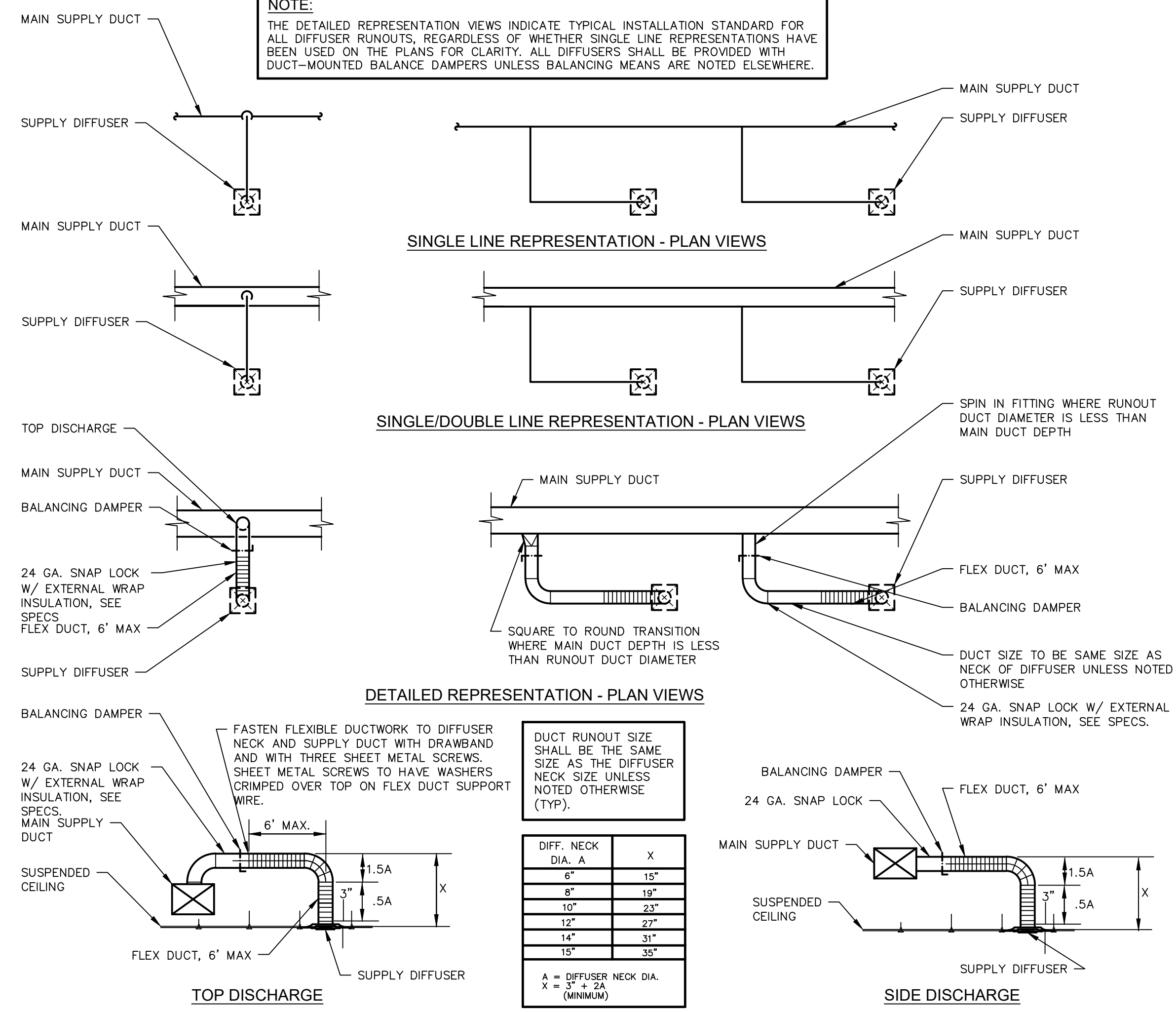
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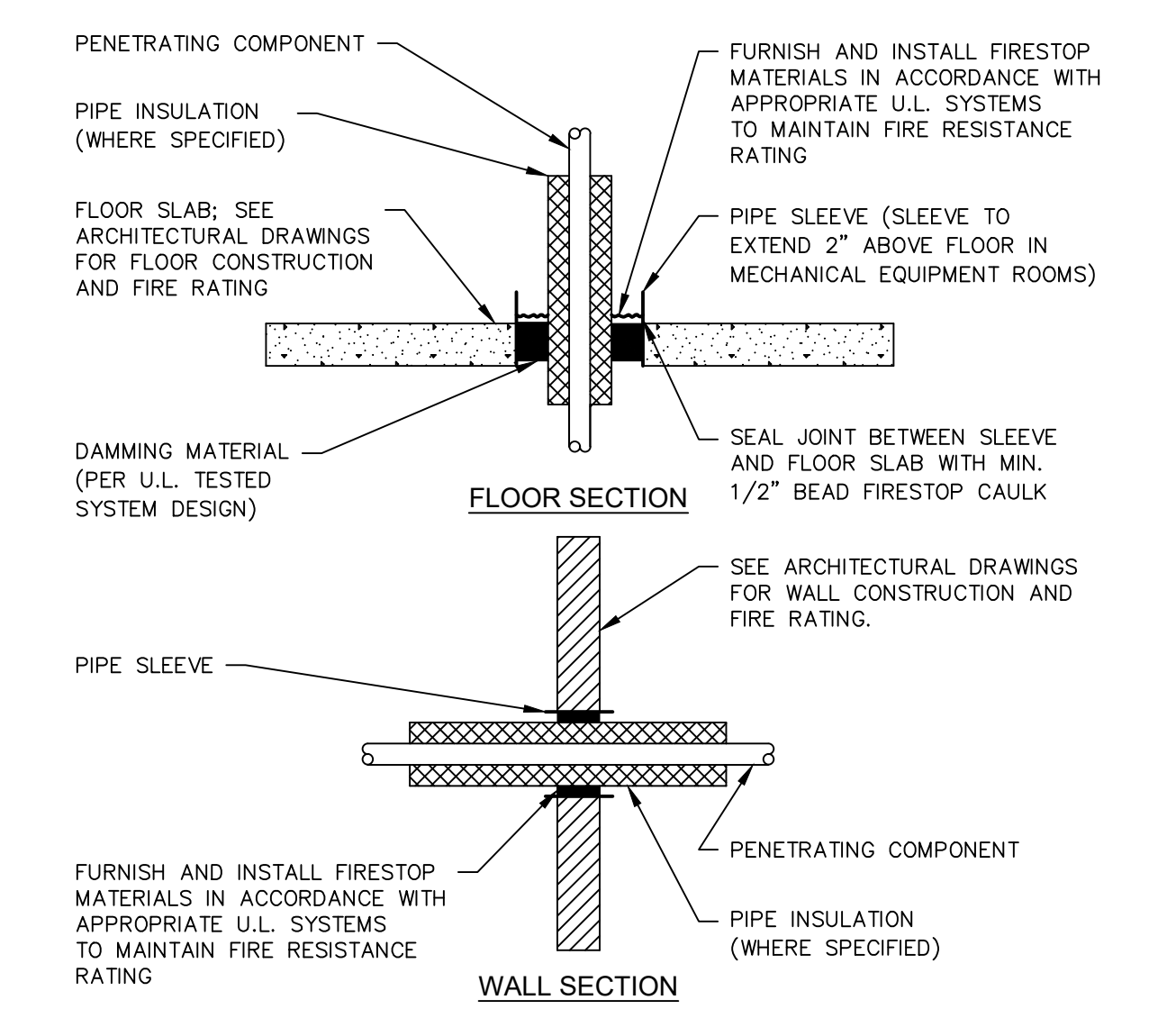
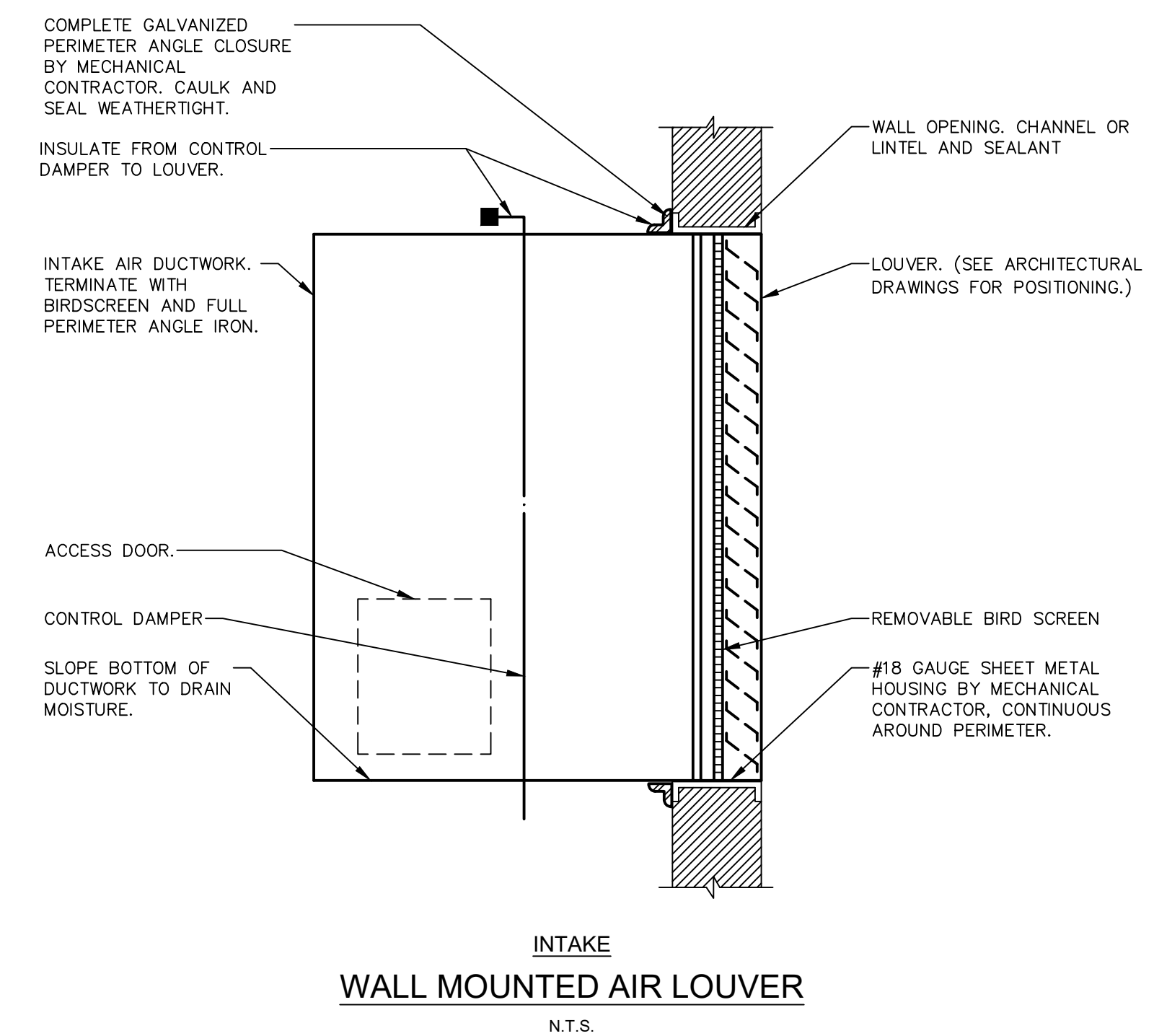
03/31/2023
 DATE
 82A21
 PROJECT NUMBER

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.

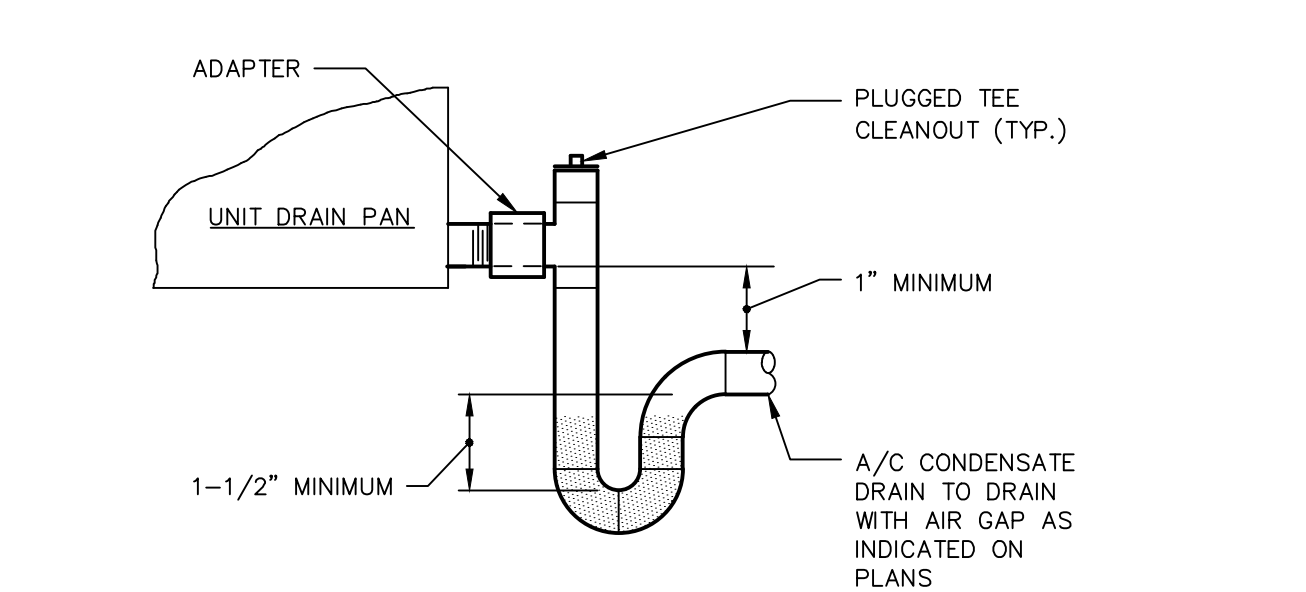
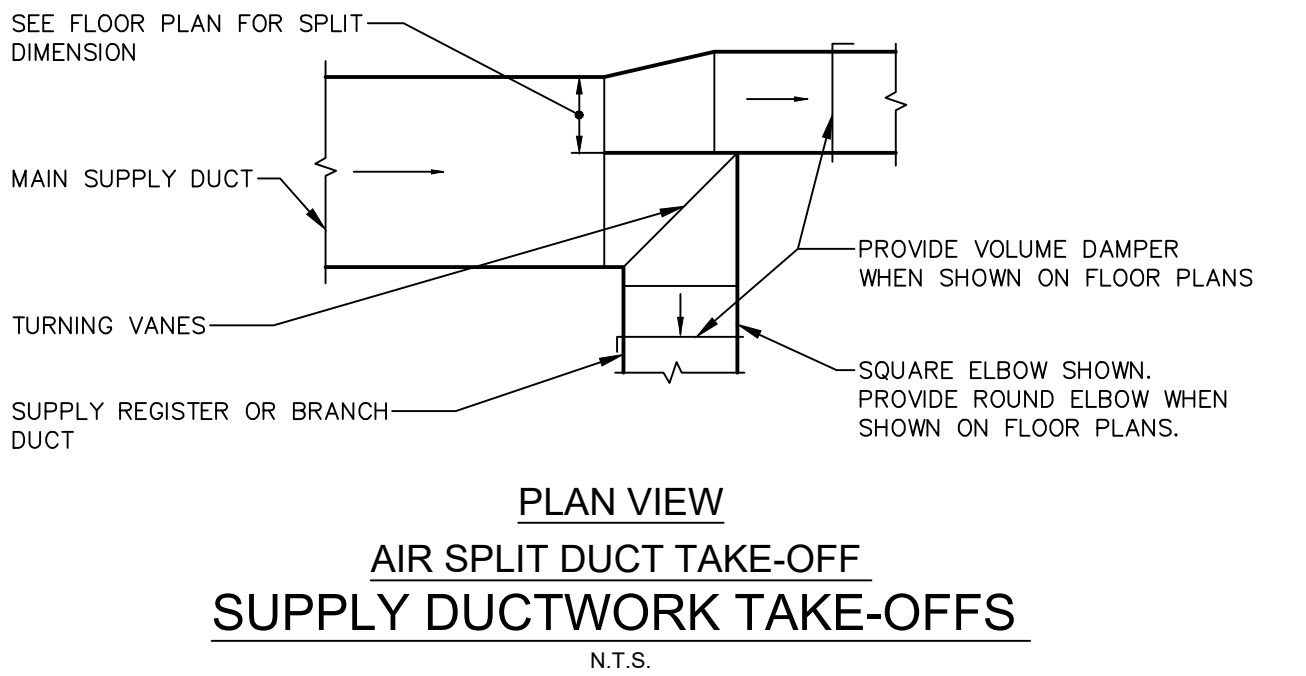
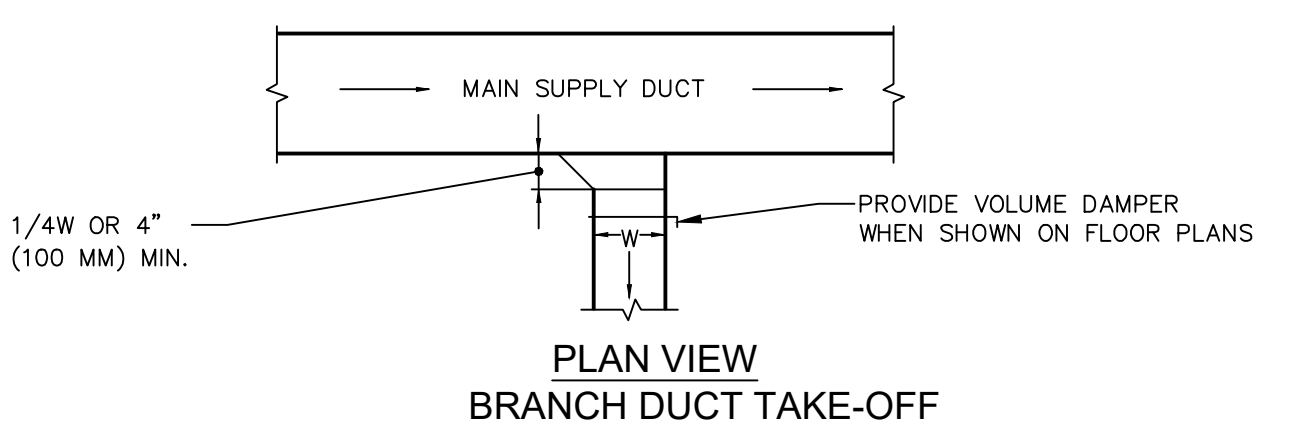
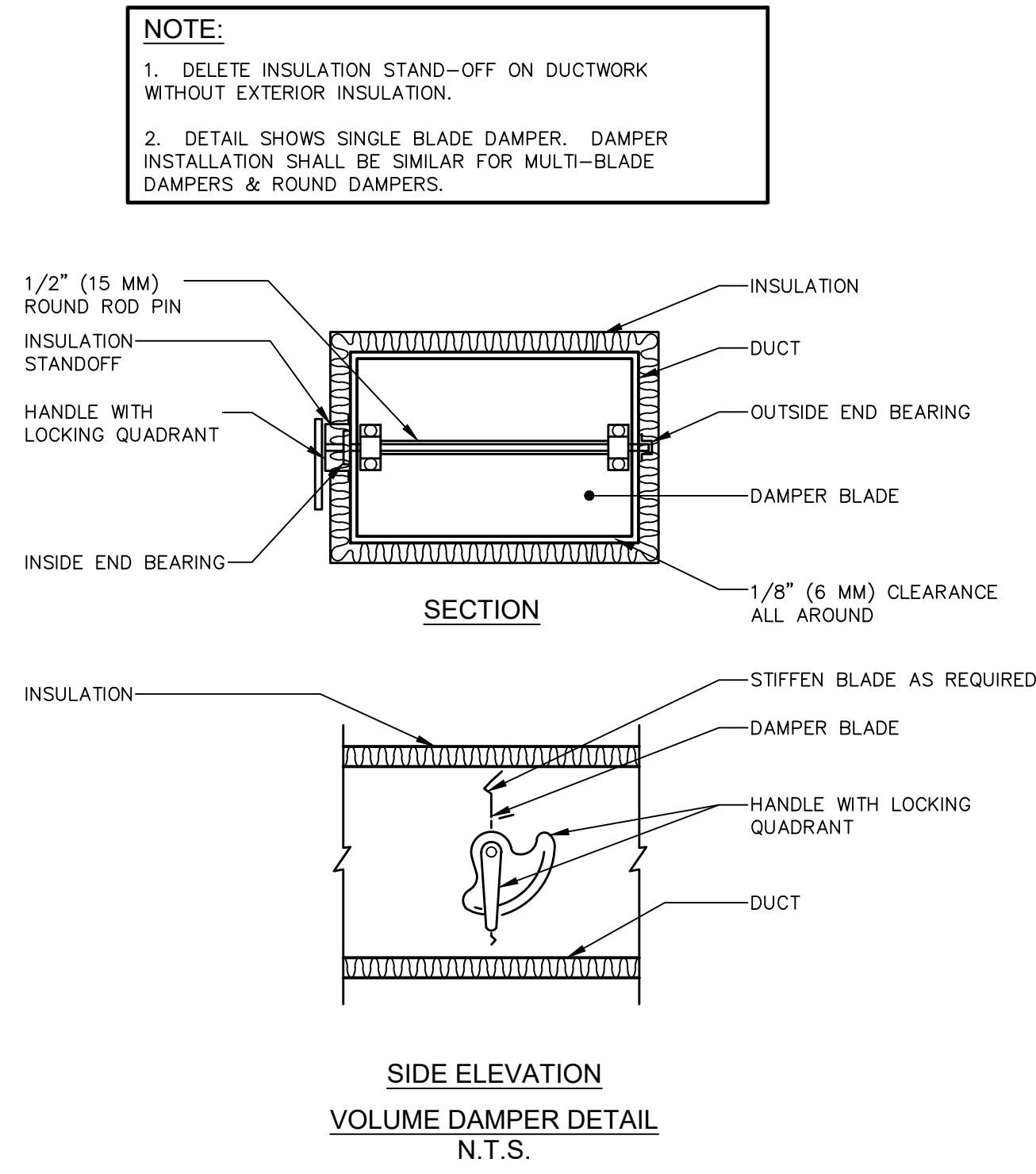
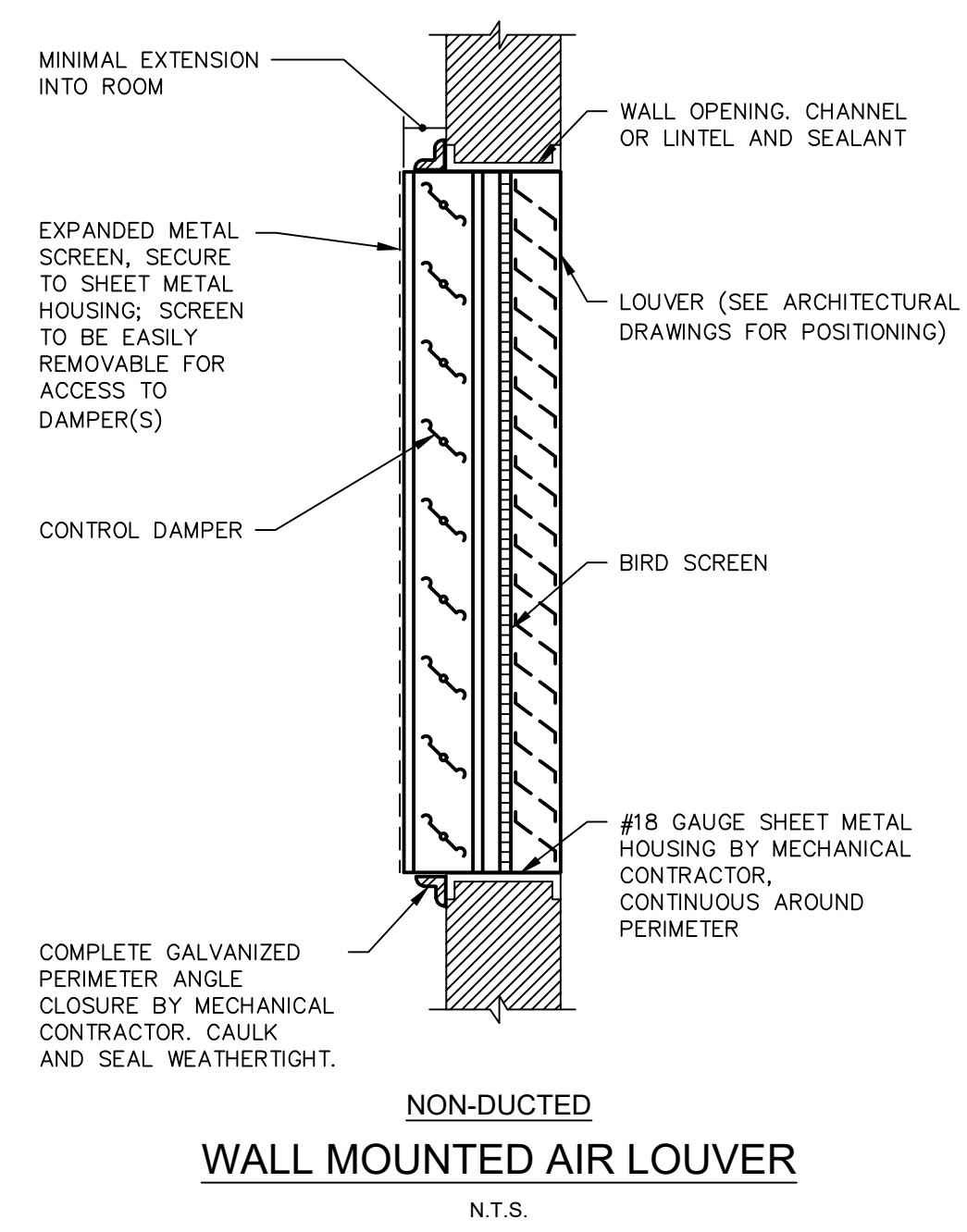


SUPPLY DIFFUSER CONNECTION DETAIL
 N.T.S.



NOTES:

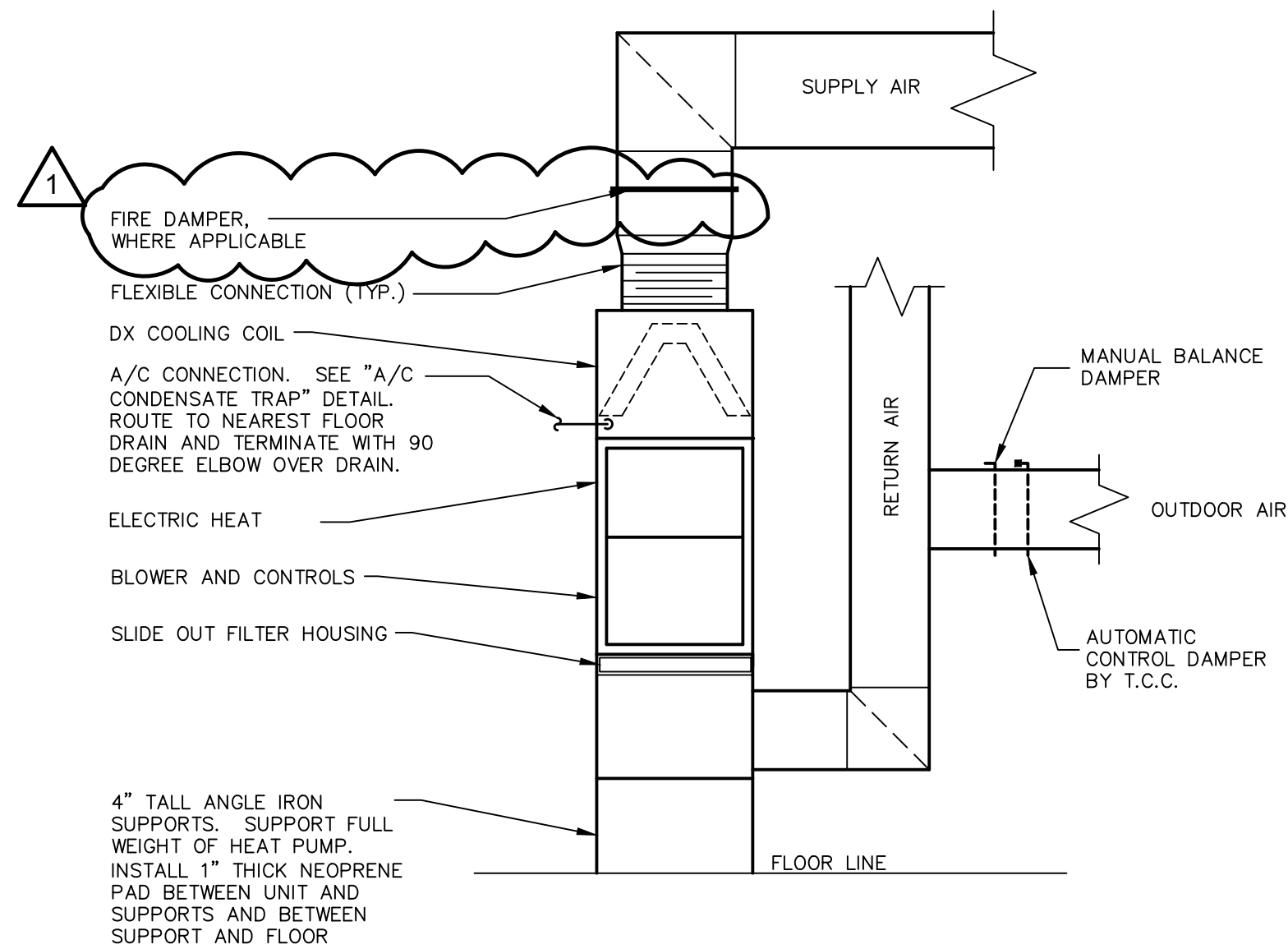
- WHERE PIPES, DUCTS AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY 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:

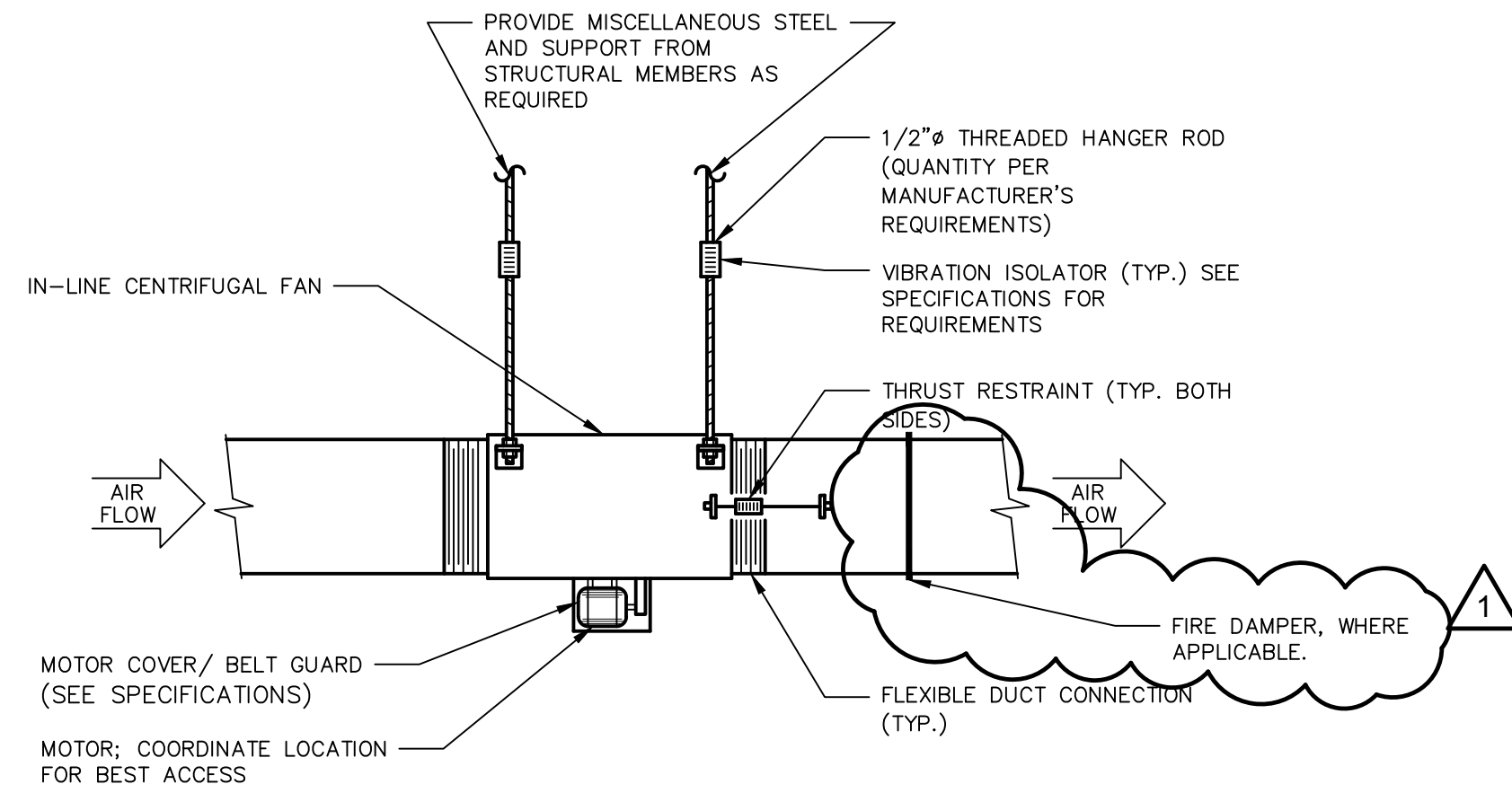
- LOCATE TRAP AS CLOSE AS POSSIBLE TO TERMINAL UNIT OUTLET.
- SIZE OF TRAP PIPING TO BE LARGER OF EQUIPMENT OUTLET SIZE OR DIMENSION ON PIPING.
- SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.

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HEAT PUMP DETAIL

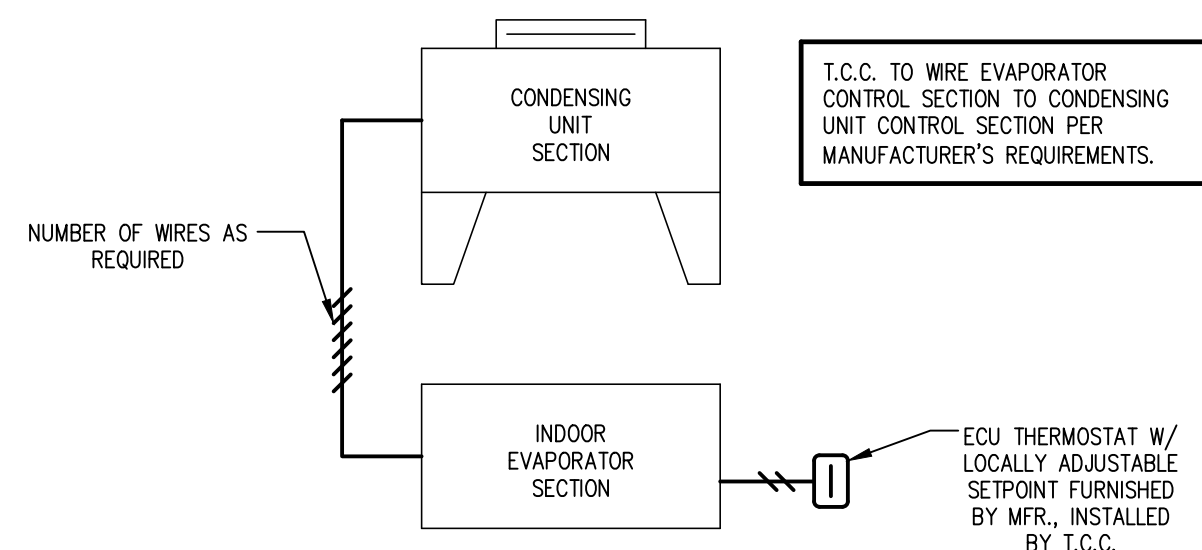
N.T.S.



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

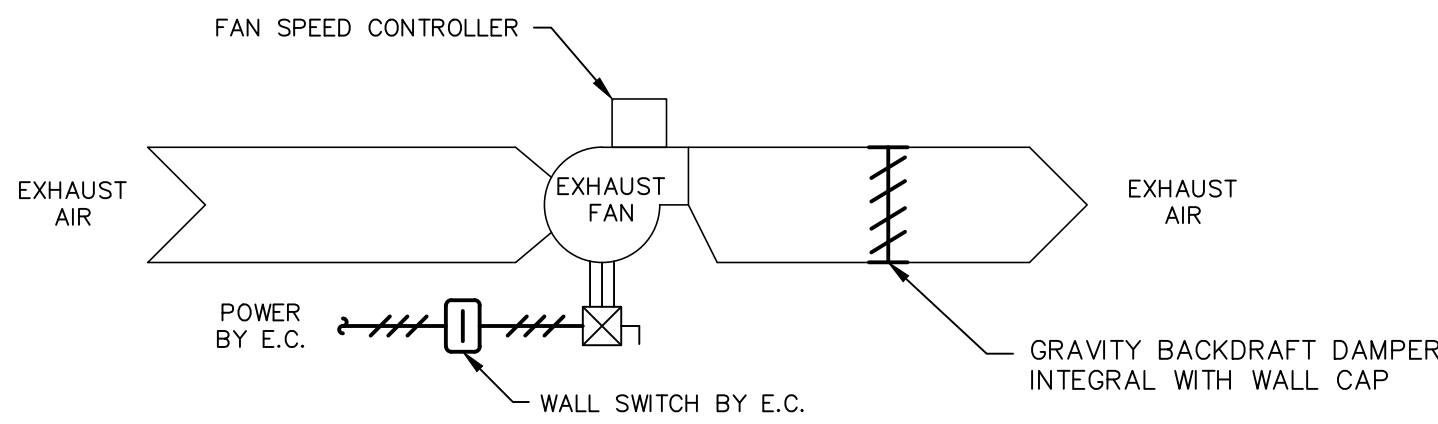
IN-LINE CENTRIFUGAL FAN DETAIL

N.T.S.



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

N.T.S.

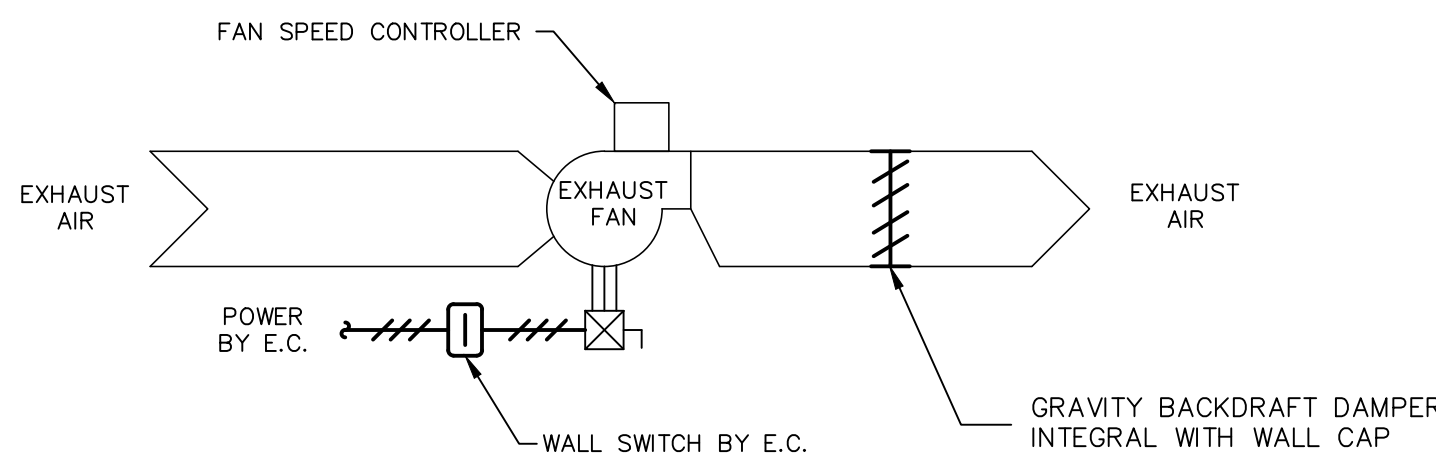


SEQUENCE OF OPERATION:

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.

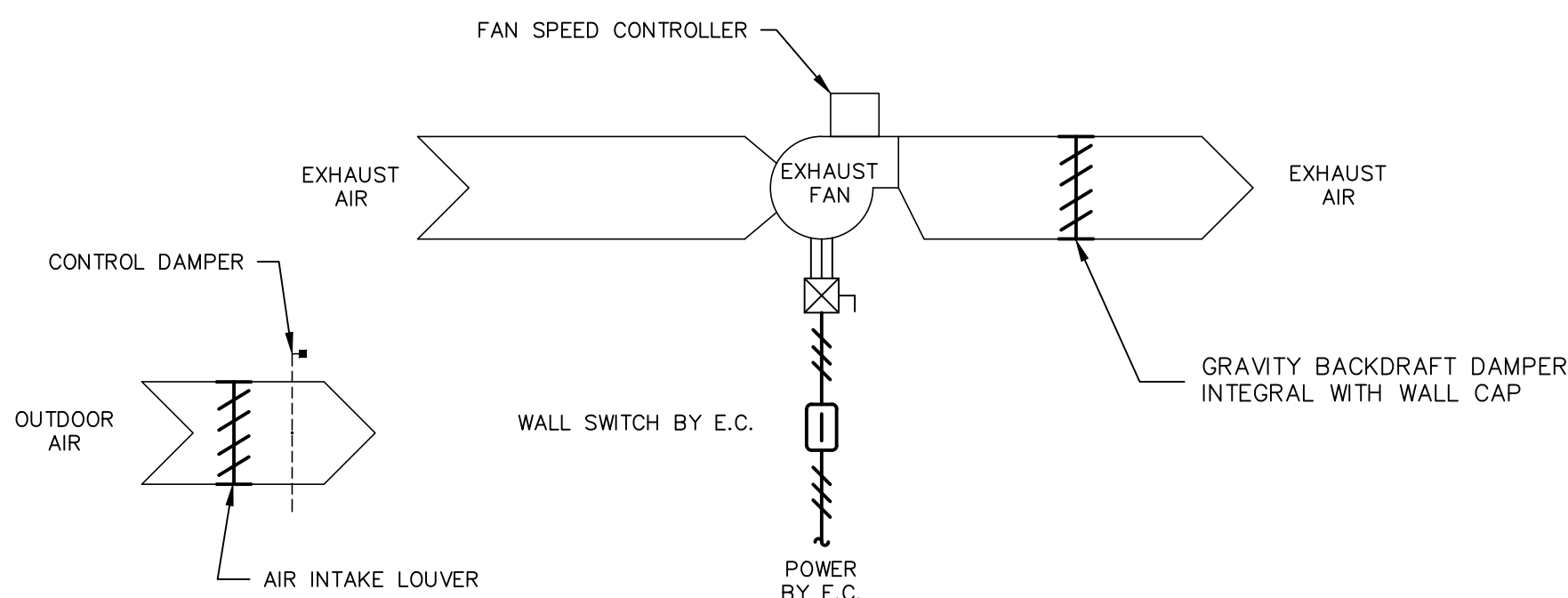


SEQUENCE OF OPERATION:

1. EXHAUST FAN SHALL BE CONTROLLED BY A WALL SWITCH IN THE SPACE.

EF-2 EXHAUST FAN CONTROL DIAGRAM

N.T.S.

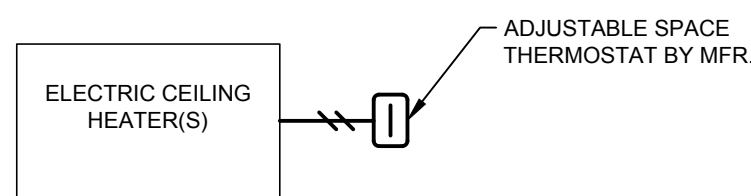


SEQUENCE OF OPERATION:

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.

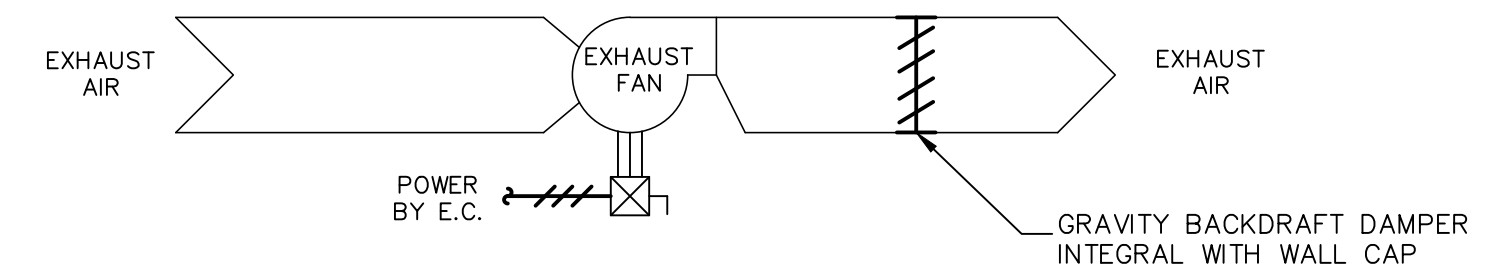


SEQUENCE OF OPERATION:

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.

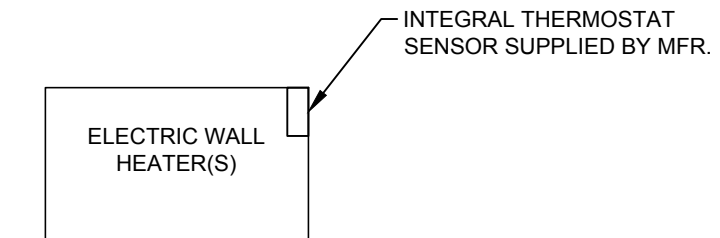


SEQUENCE OF OPERATION:

1. EXHAUST FAN TO RUN CONTINUOUSLY 24/7/365.

EF-5 EXHAUST FAN CONTROL DIAGRAM

N.T.S.

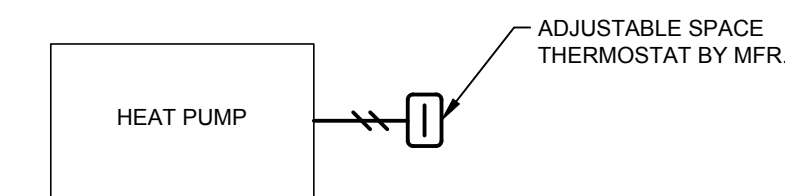


SEQUENCE OF OPERATION:

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.

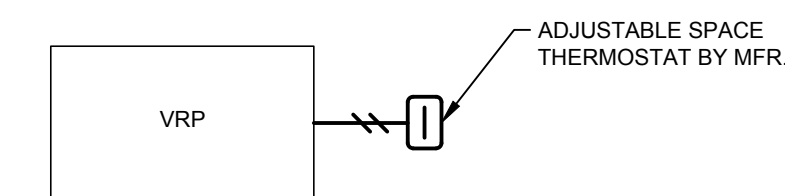


NOTES:

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.

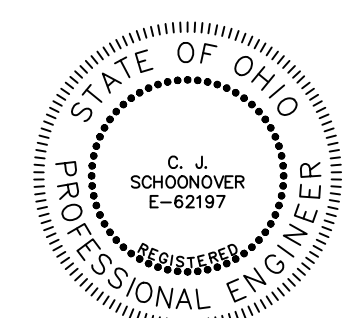


NOTES:

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.



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

REVISIONS	
▲	BULLETIN 01 - 07/17/2023

HVAC DETAILS
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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 (190°F) HEAT DETECTOR, CEILING MOUNTED. SMP - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED. SMP/S20 - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 520HZ SOUNDER BASE SMP/CO/520 - COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 520HZ 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 - 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"Ø 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 WIRING, 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

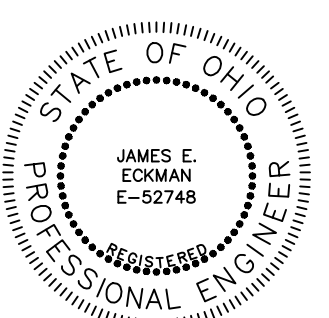
SYMBOL	DESCRIPTION
#	NUMBER INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
"c"	SUBSCRIPT "c" INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP TO CENTERLINE.
CLG	CEILING
DP	DISTRIBUTION PANEL
EC	ELECTRICAL CONTRACTOR
EMT	GALVANIZED 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 ACCESSIBLE 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.

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 ACCESSIBLE UNITS AND SIGHT/HEARING UNIT.



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NOTES & LEGENDS - ELECTRICAL

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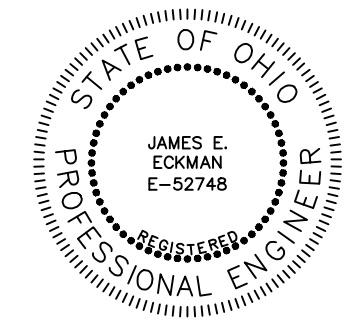
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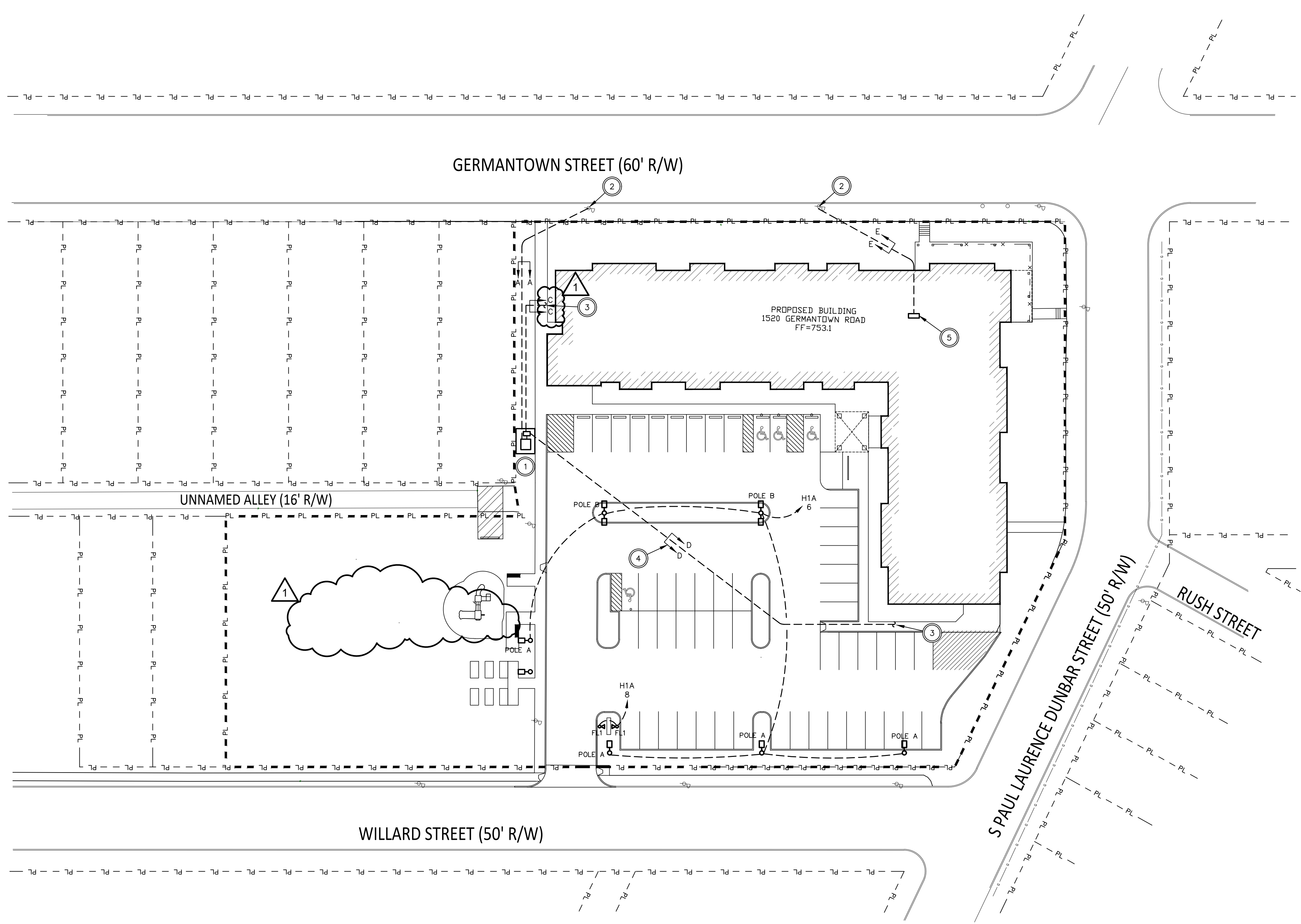
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SITE PLAN - ELECTRICAL

0 30' 60'
SCALE



SITE PLAN - ELECTRICAL

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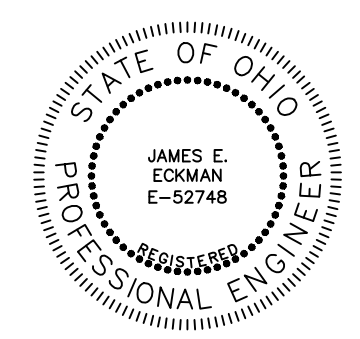


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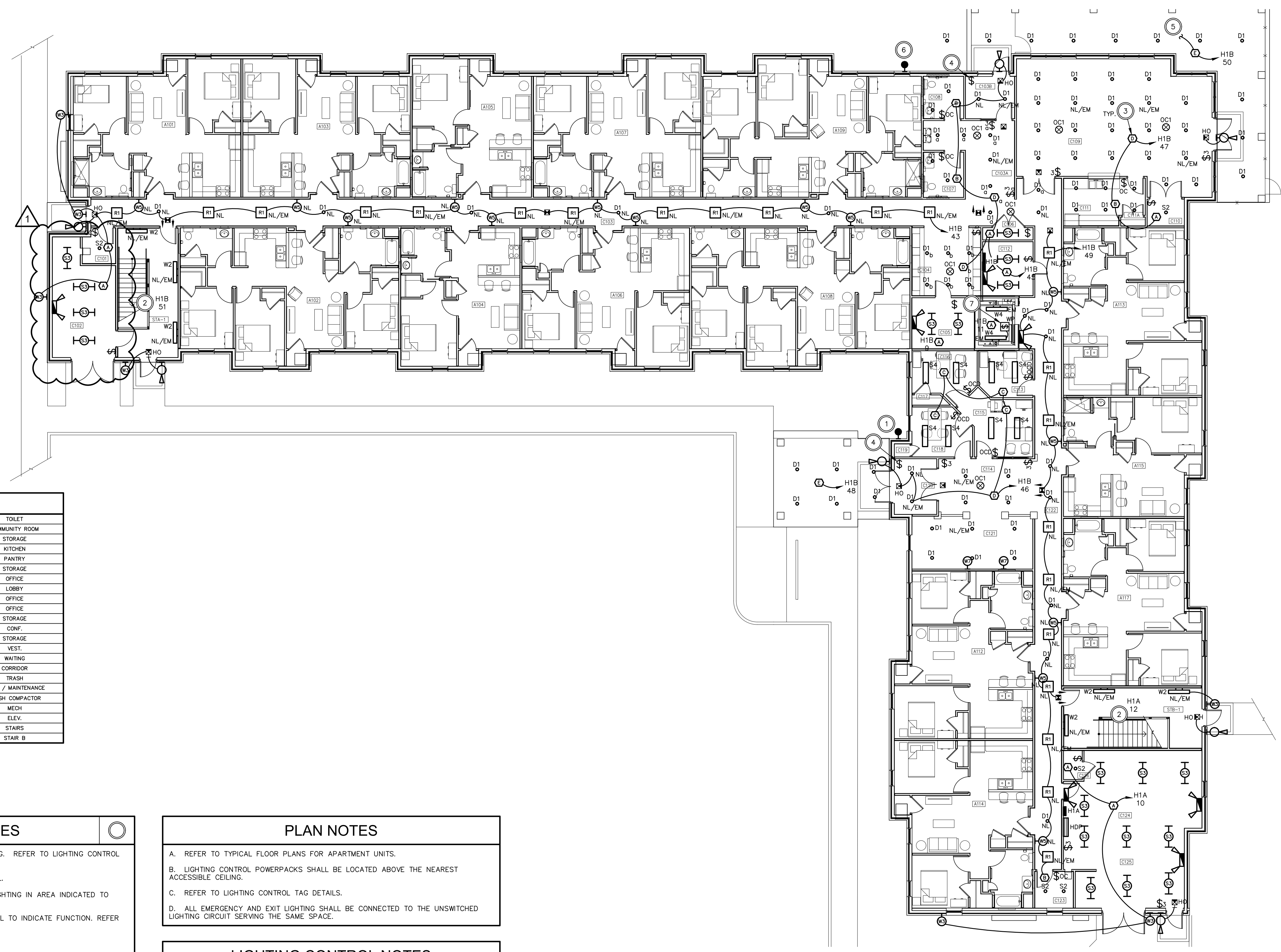
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ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	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

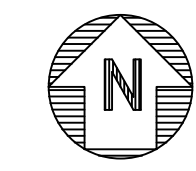
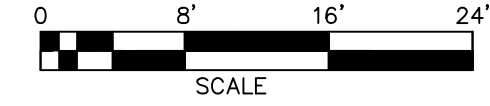
CODED NOTES	
○	1. PHOTOCELL FOR WEST EXTERIOR CANOPY LIGHTING. REFER TO LIGHTING CONTROL TAG "E".
○	2. LIGHTING CIRCUIT FOR ALL FIXTURES IN STAIRWELL.
○	3. LIGHTING CONTROL TAG (TYP). CONNECT ALL LIGHTING IN AREA INDICATED TO CIRCUIT SHOWN.
○	4. OVERRIDE SWITCH FOR EXTERIOR LIGHTING. LABEL TO INDICATE FUNCTION. REFER TO LIGHTING CONTROL TAG "E".
○	5. UP TO SIGNAGE LIGHTING.
○	6. PHOTOCELL FOR NORTH EXTERIOR CANOPY LIGHTING, SIGNAGE LIGHTING, AND TOWER LIGHTING. REFER TO LIGHTING CONTROL TAG "E".
○	7. INSTALL ELEVATOR PIT LIGHT SWITCH BY LADDER - COORDINATE WITH ELEVATOR MANUFACTURER.

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 SCONES 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.
C.	EXTERIOR LIGHTING CONTROLS: a. EXTERIOR WALLPACKS ARE EQUIPPED WITH INTEGRAL PHOTOCELLS AND WILL TURN ON/OFF DEPENDENT ON THE AMOUNT OF DAYLIGHT DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT. b. CANOPY DOWNLIGHTS ARE CONNECTED TO AN LOCAL 120V PHOTOCELL AND WILL TURN ON/OFF DEPENDENT ON THE AMOUNT OF DAYLIGHT DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT.

FIRE-RATED CEILINGS NOTE	
A.	AREAS THAT HAVE ONE-HOUR FIRE RATED CEILINGS WITH RECESSED DOWNLIGHT FIXTURES SHALL BE PROVIDED WITH A ONE-HOUR RATED ENCLOSURE OVER THE FIXTURE HOUSING TO MAINTAIN THE CEILING RATING. IN GENERAL, THIS INCLUDES THE COMMUNITY ROOM AND KITCHEN, PUBLIC TOILETS, THE VESTIBULE, THE LOBBY, AND THE WAITING AREA. FULLY COORDINATE ALL LOCATIONS AND AREAS WITH ARCHITECT.

LIGHTING - FIRST FLOOR PLAN - ELECTRICAL



LIGHTING - FIRST FLOOR - ELEC.
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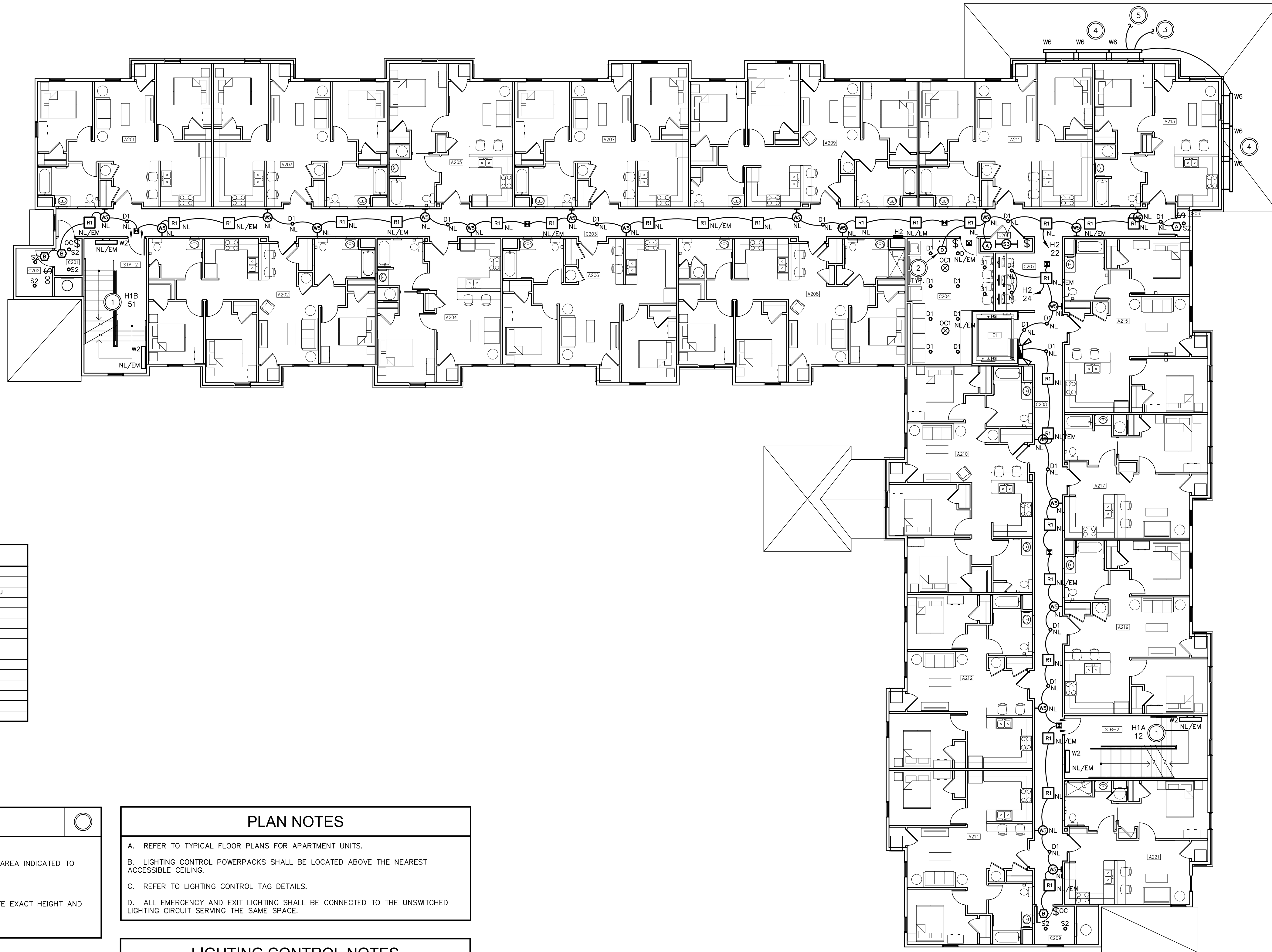


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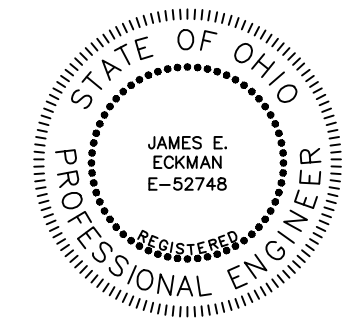
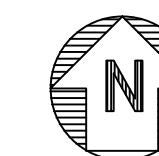
ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
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. 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 SCUNCES 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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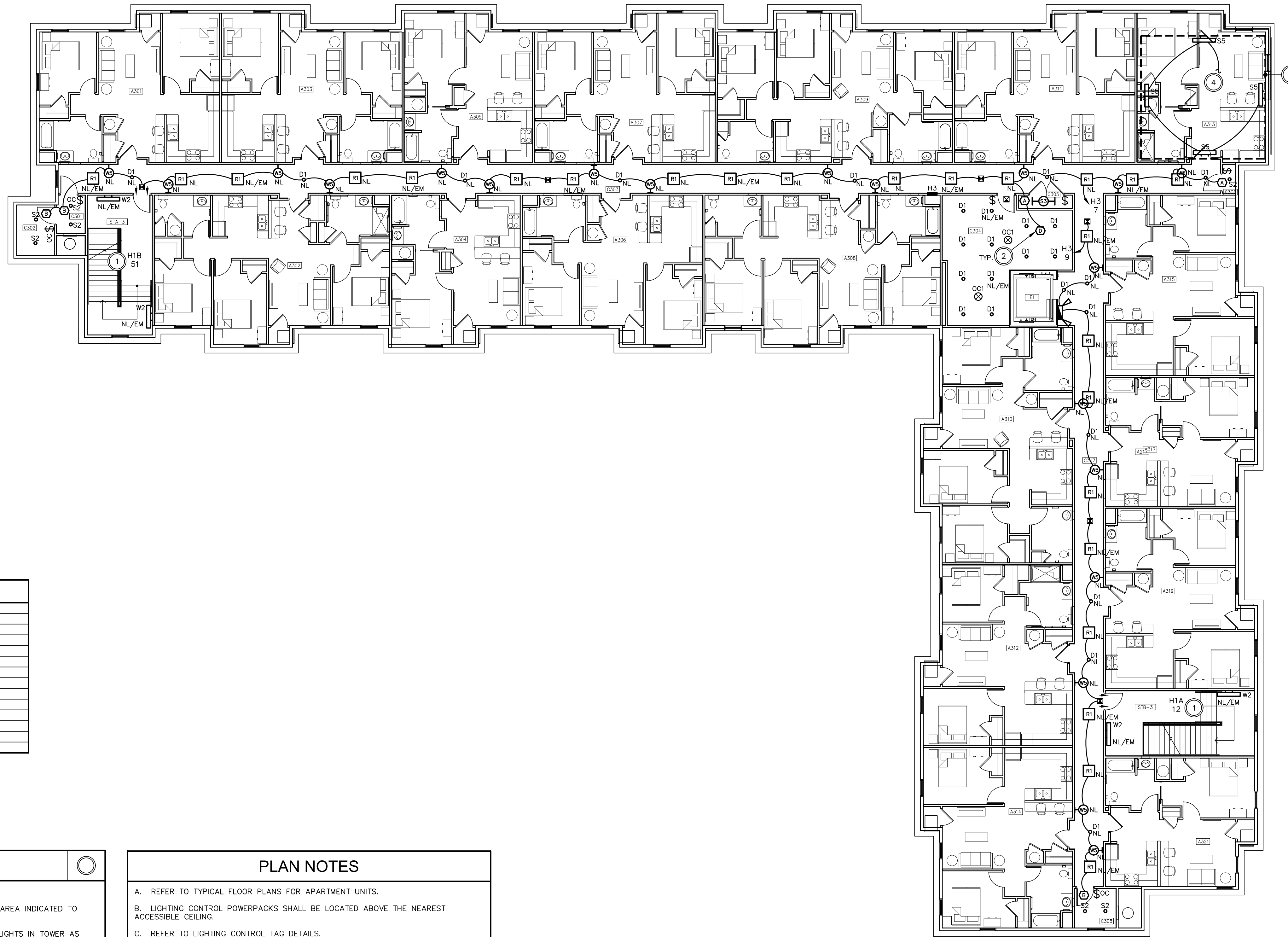
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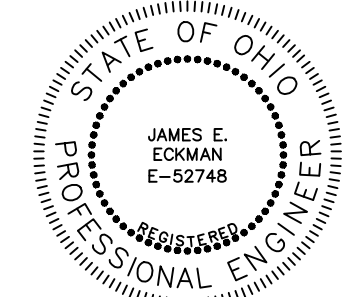
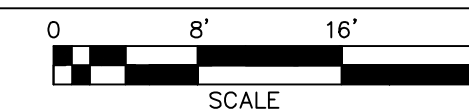
ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
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.	LIGHTING CIRCUIT FOR ALL FIXTURES IN STAIRWELL.
2.	LIGHTING CONTROL TAG (TYP). CONNECT ALL LIGHTING IN AREA INDICATED TO CIRCUIT SHOWN.
3.	APPROXIMATE OUTLINE OF TOWER ABOVE. PROVIDE FLOODLIGHTS IN TOWER AS SHOWN. FLOODLIGHTS SHALL BE MOUNTED TO THE SHORT WALL BELOW THE TOWER WINDOWS AND POINTED UP TO ILLUMINATE TOWER INTERIOR. COORDINATE EXACT LOCATIONS AND MOUNTED WITH ARCHITECT.
4.	DOWN TO SIGNAGE 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 - THIRD FLOOR PLAN - ELECTRICAL



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LIGHTING - THIRD FLOOR - ELEC.

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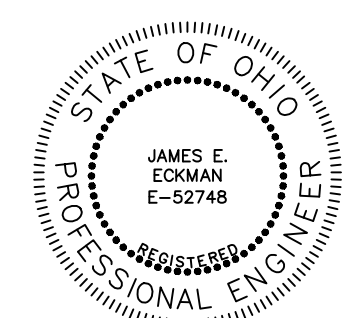
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POWER - FIRST FLOOR - ELEC.
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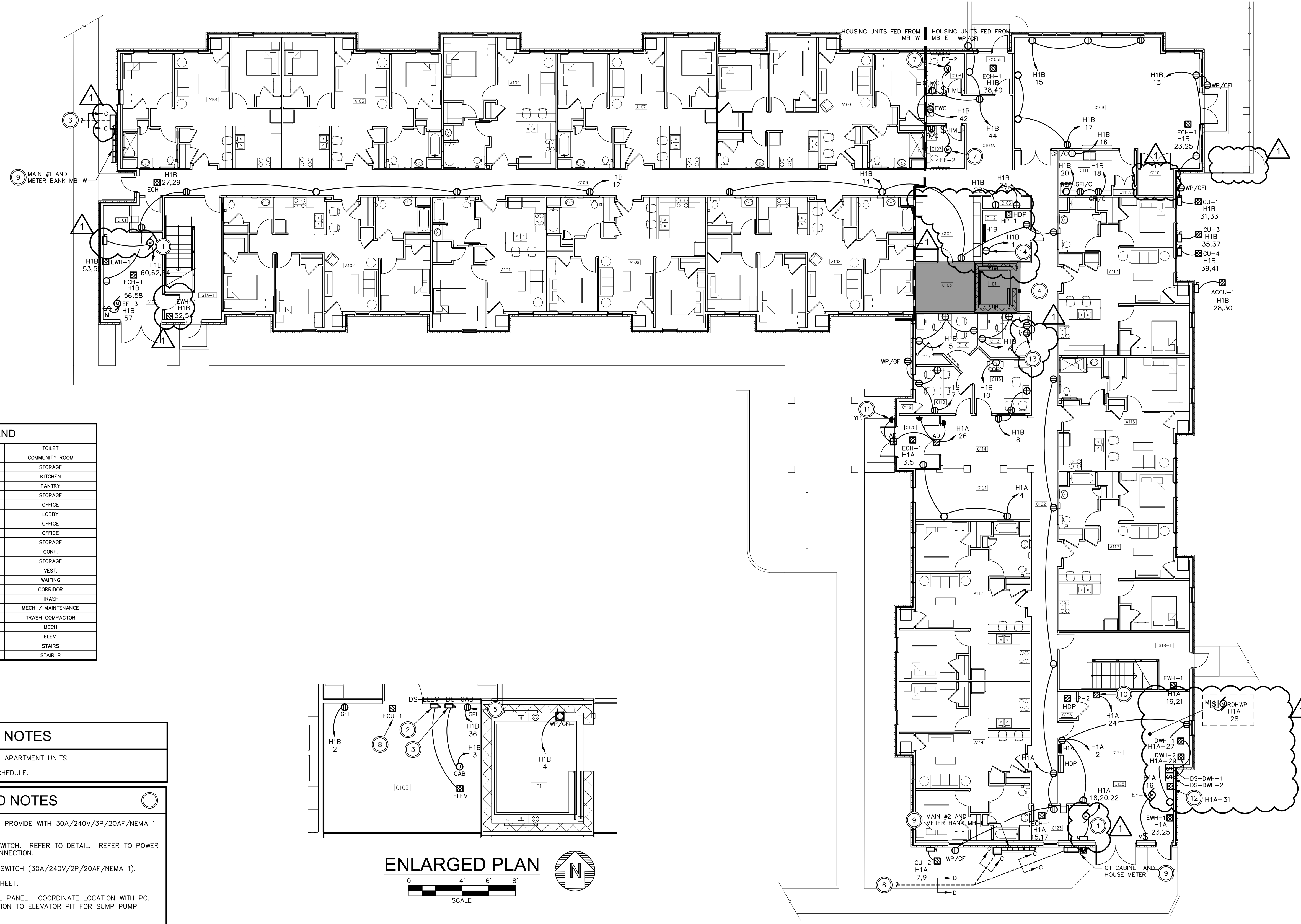
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DRAWING NUMBER

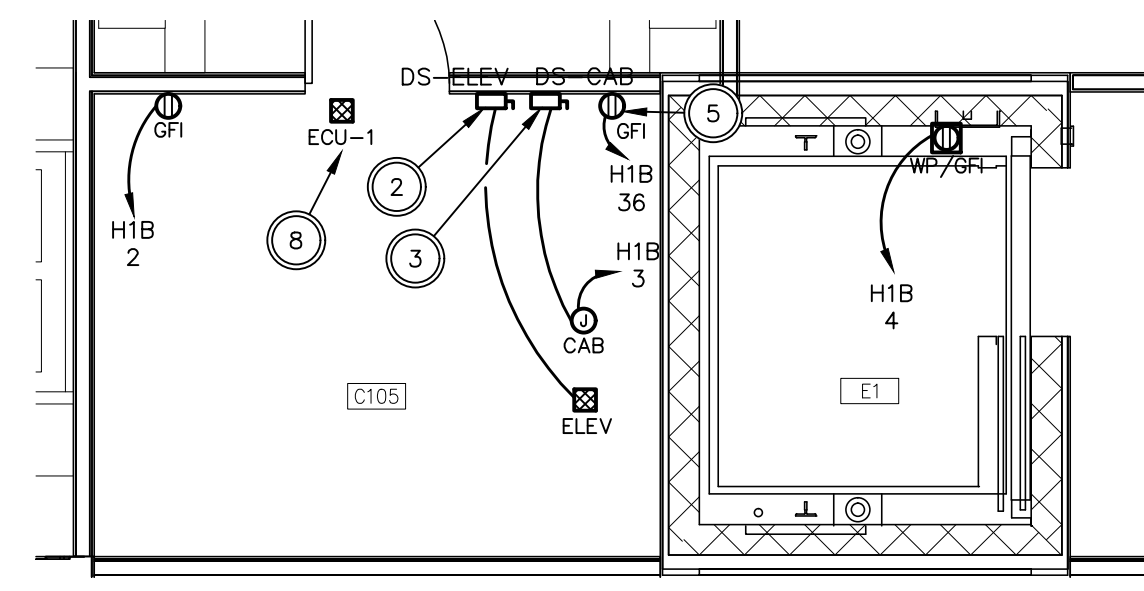


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112	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

PLAN NOTES

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

- CODED NOTES**
- TRASH COMPACTOR (3HP, 208V, 3PH). PROVIDE WITH 30A/240V/3P/20AF/NEMA 1 DISCONNECT SWITCH.
 - ELEVATOR SHUNT-TRIP DISCONNECT SWITCH. REFER TO DETAIL. REFER TO POWER RISER DIAGRAM FOR ELEVATOR POWER CONNECTION.
 - ELEVATOR CAB LIGHTING DISCONNECT SWITCH (30A/240V/2P/20AF/NEMA 1).
 - REFER TO ENLARGED PLAN ON THIS SHEET.
 - RECEPTACLE FOR OIL MINDER CONTROL PANEL. COORDINATE LOCATION WITH PC. EXTEND 2" FROM CONTROL PANEL LOCATION TO ELEVATOR PIT FOR SUMP PUMP CONNECTION.
 - REFER TO SITE PLAN FOR CONTINUATION.
 - CONNECT TO UNSWITCHED LIGHTING CIRCUIT SERVING THE RESTROOM.
 - CONNECT TO ACCU-1. REFER TO MECHANICAL EQUIPMENT SCHEDULE.
 - COORDINATE EXACT LOCATION OF WALL-MOUNTED ELECTRICAL EQUIPMENT WITH ARCHITECTURAL ELEVATIONS.
 - DRY-PIPE COMPRESSOR (1HP MAX, 120V). COORDINATE EXACT HORSEPOWER WITH FPC. CONNECT TO PANEL INDICATED WITH #10AWG CONDUCTORS.
 - COORDINATE FINAL LOCATIONS OF AUTO DOOR PUSHPLATES WITH ARCHITECT PRIOR TO ROUGH-IN (TYPICAL FOR ALL).
 - MASTER MIXING VALVE (120V).
 - RECEPTACLE FOR SECURITY CAMERA MONITOR. COORDINATE HEIGHT WITH OWNER'S SECURITY VENDOR.
 - RECEPTACLE FOR SECURITY SYSTEM RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR.



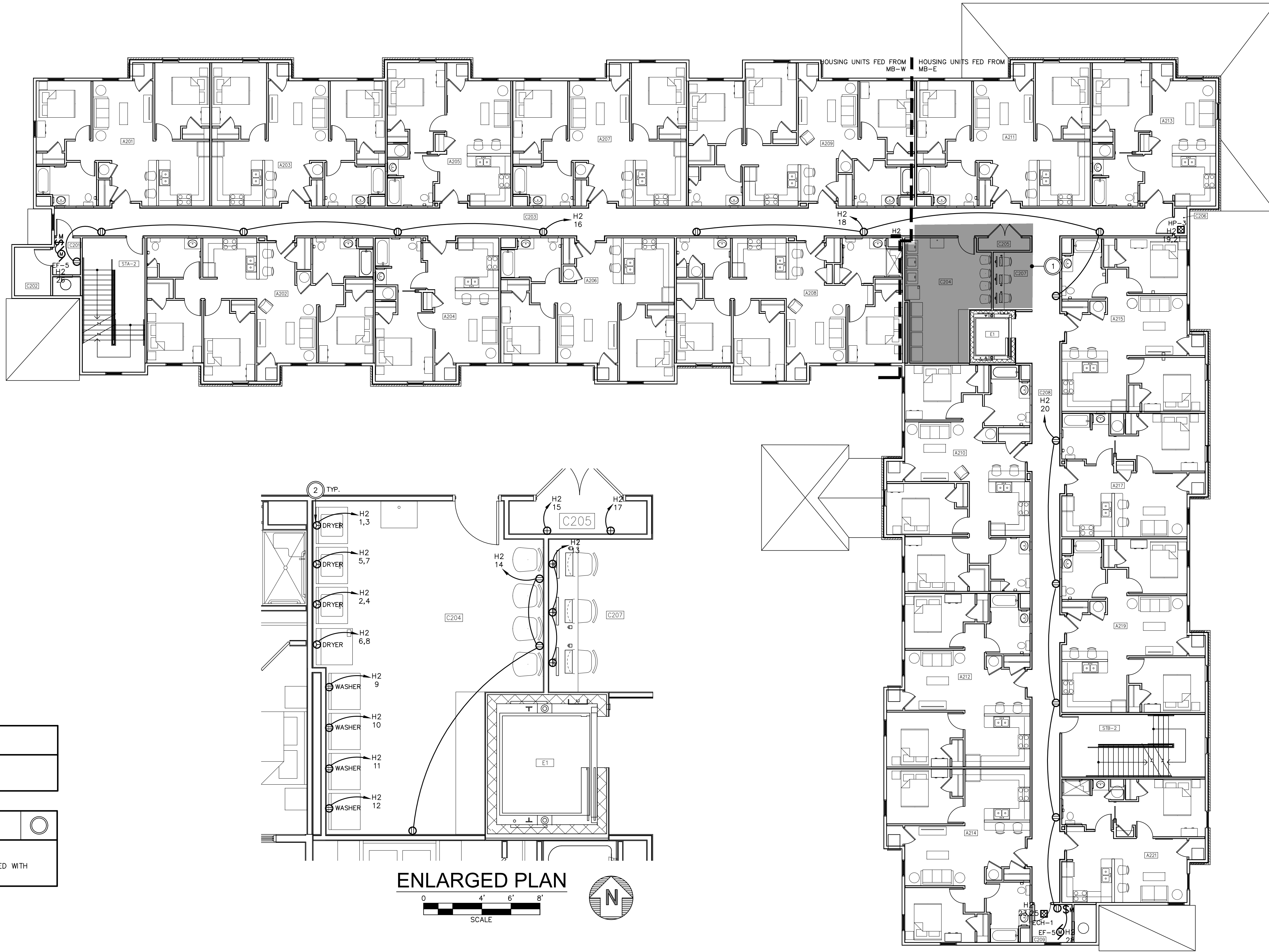
ENLARGED PLAN
SCALE 0 4' 6' 8'
N

POWER - FIRST FLOOR PLAN - ELECTRICAL

SCALE 0 8' 16' 24'
N

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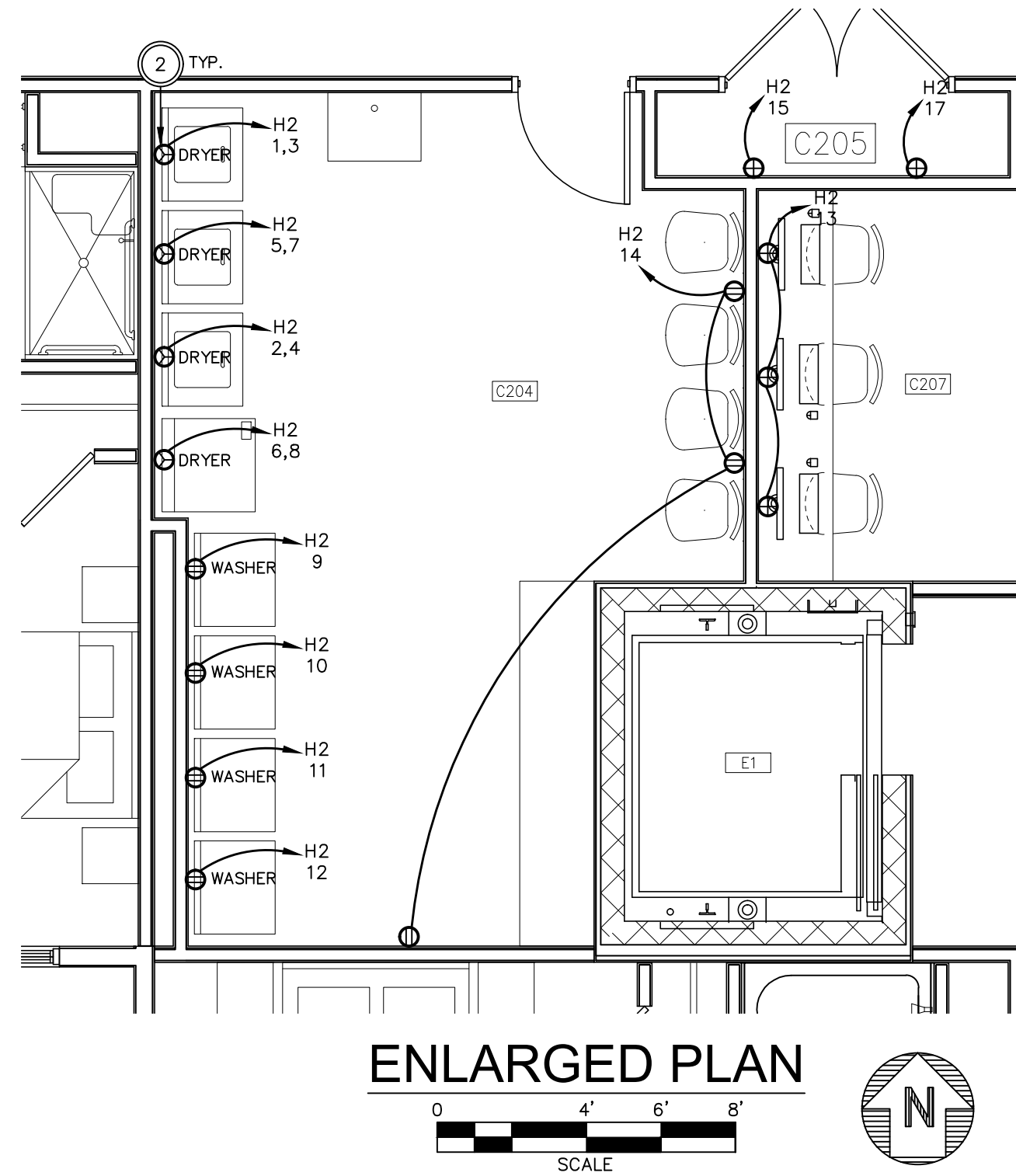
ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
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

PLAN NOTES

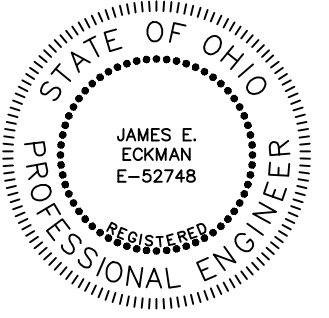
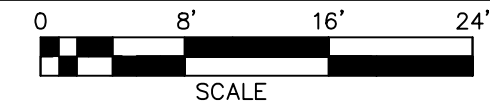
A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.
 B. REFER TO MECHANICAL EQUIPMENT SCHEDULE.

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



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

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POWER - SECOND FLOOR - ELEC.

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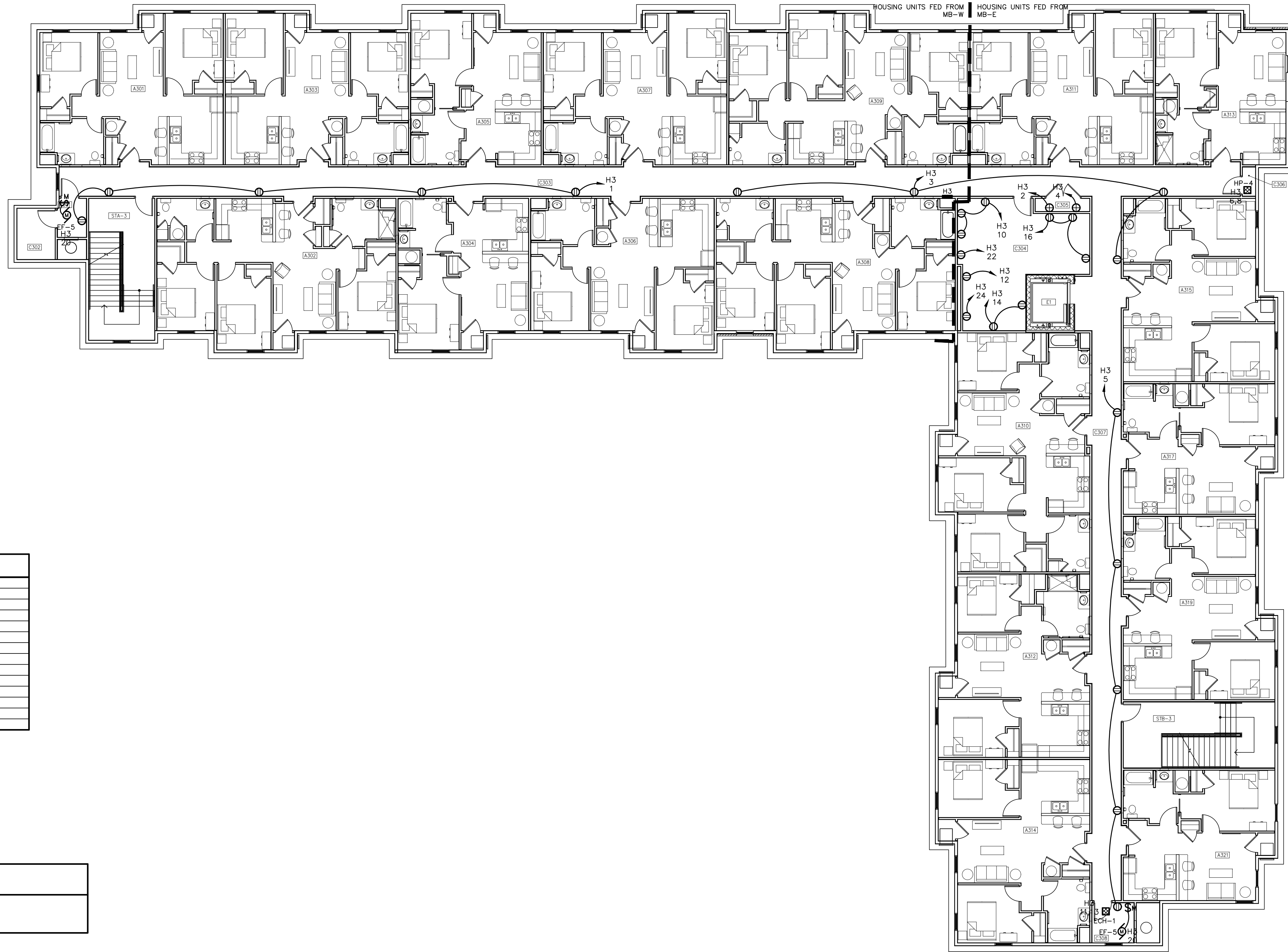
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03/31/2023
 DATE

82A21
 PROJECT NUMBER

E202
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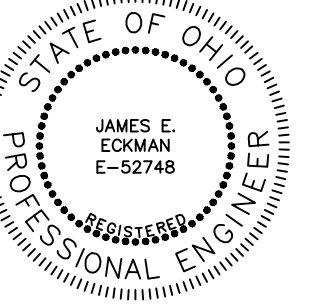
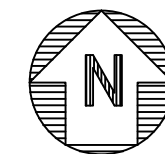
ROOM LEGEND

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		

PLAN NOTES

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

POWER - THIRD FLOOR PLAN - ELECTRICAL



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POWER - THIRD FLOOR - ELEC.

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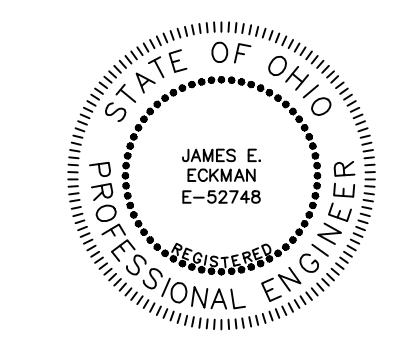
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82A21

PROJECT NUMBER

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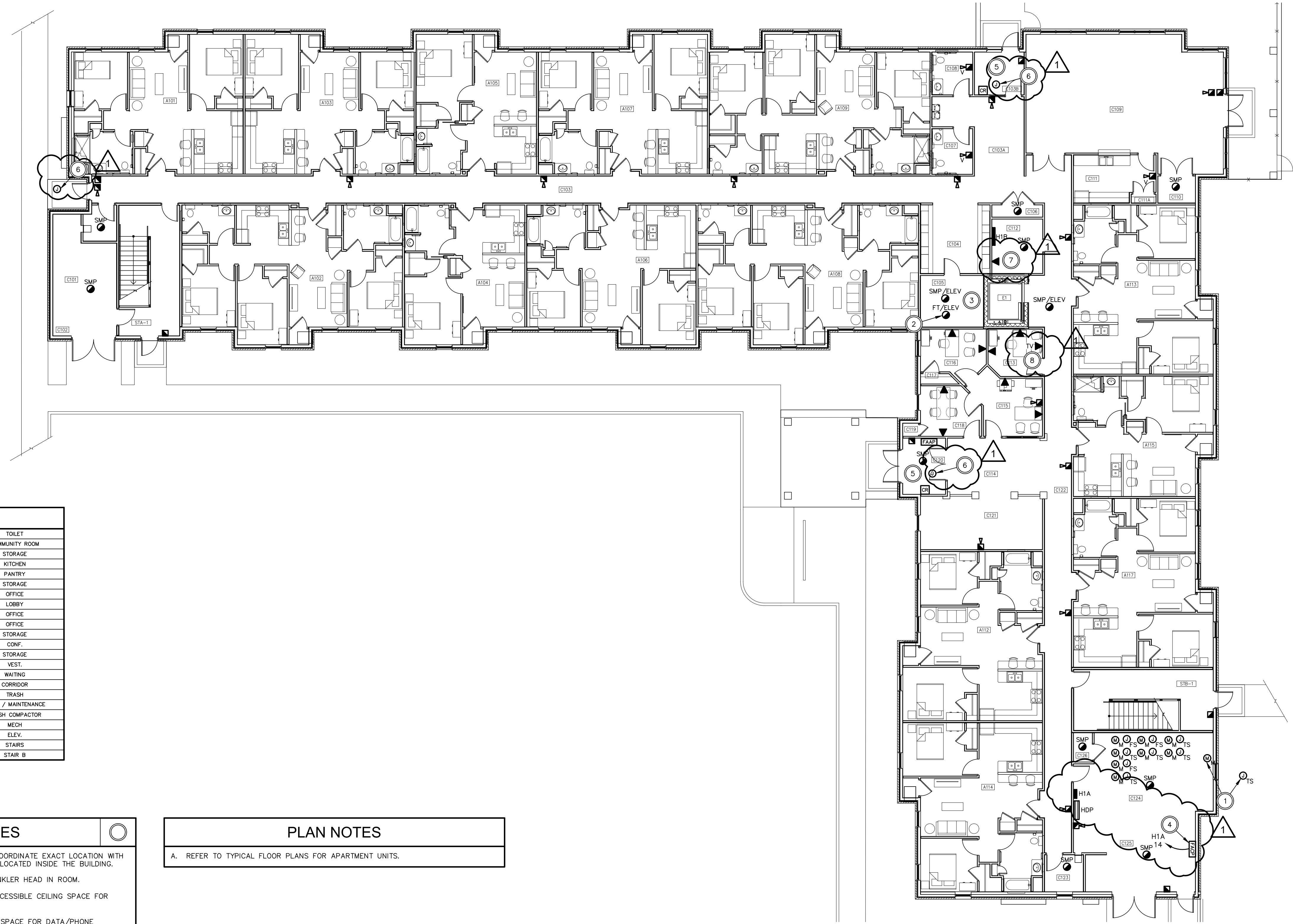
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SIGNATURE DATE

REVISIONS

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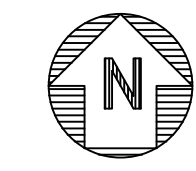
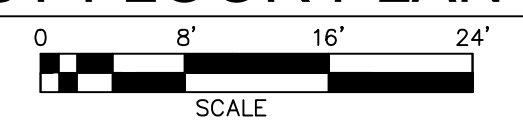


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
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C103	CORRIDOR	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 F.P.C. 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.
○	6. CEILING-MOUNTED RECESSED JUNCTION BOX FOR CAMERA. EXTEND 1" TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATION WITH OWNER'S SECURITY VENDOR.
○	7. DATA OUTLET FOR HEAD-END SECURITY SYSTEM RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR. PROVIDE (2)-4" CONDUIT SLEEVES OUT OF THIS ROOM INTO ACCESSIBLE CEILING SPACE.
○	8. DATA OUTLET FOR SECURITY CAMERA MONITOR. COORDINATE MOUNTING HEIGHT WITH OWNER'S SECURITY VENDOR.

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

SYSTEMS - FIRST FLOOR PLAN - ELECTRICAL



SYSTEMS - FIRST FLOOR - ELEC.
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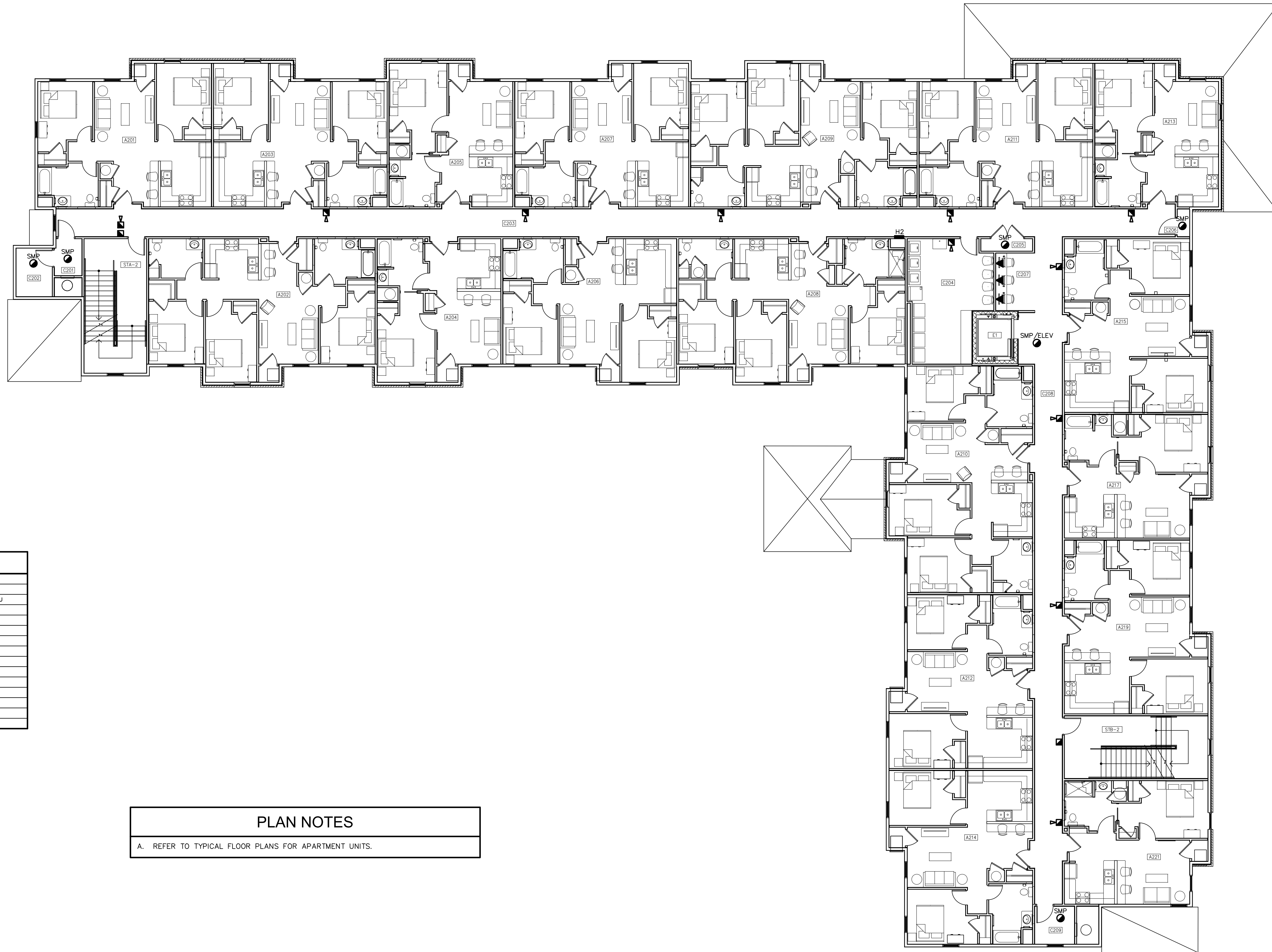


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E301
DRAWING NUMBER

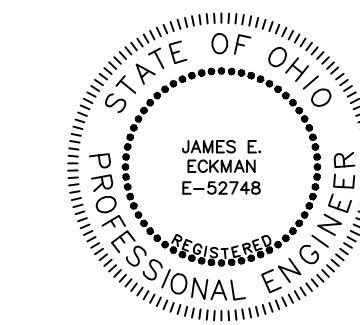
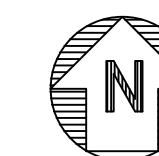


ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
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

PLAN NOTES

A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

SYSTEMS - SECOND FLOOR PLAN - ELECTRICAL



J. E. Eckman 3/31/23
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REVISIONS

SYSTEMS - SECOND FLOOR - ELEC.

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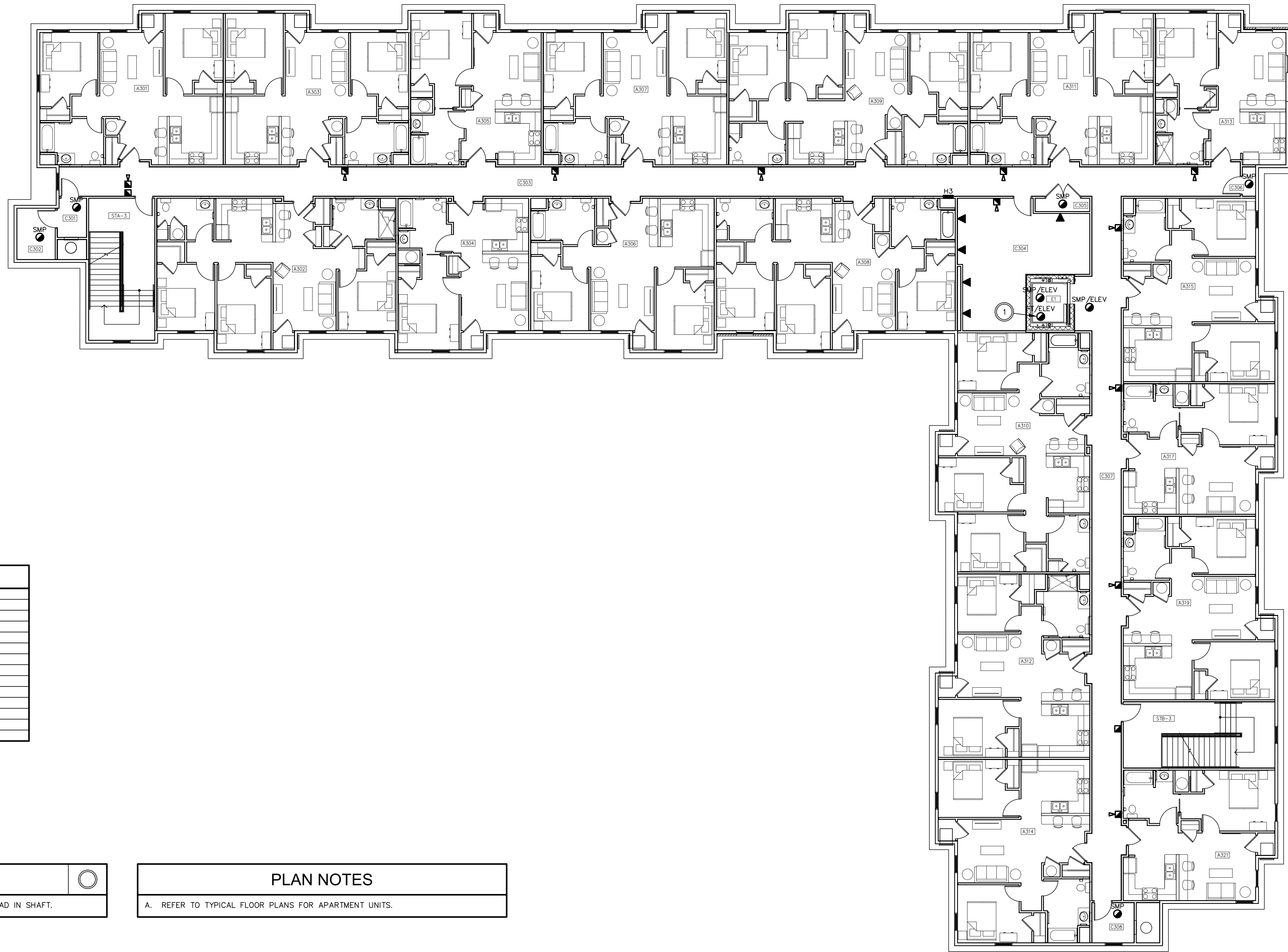
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PROJECT NUMBER

E302

DRAWING NUMBER

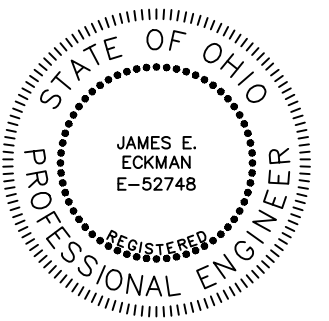
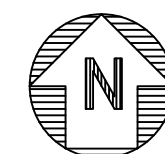


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
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



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

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SYSTEMS - THIRD FLOOR - ELEC.
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 DRAWING NUMBER

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 150 AMPS, 1 LUGS, 150A CCT. BKR. 1									
FED FROM UTILITY METER FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS									
LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD		
H-6743	HVAC UNIT VRP-1	45/2	1	2	20/1	SPARE	-		
R-8000	RANGE	50/2	3	4	20/1	SPARE	-		
R-1080	RECEPT. - LIVING ROOM	20/1	5	6	20/1	RECEPT. - REFRIGERATOR	R-1000		
R-900	RECEPT. - BEDROOM	20/1	7	8	20/1	RECEPT. - KITCHEN COUNTER	R-360		
R-360	RECEPT. - BATHROOM	20/1	9	10	20/1	RECEPT. - KITCHEN PENINSULA	R-540		
L-182	LIGHTING	20/1	11	12	20/1	RANGE HOOD	H-100		
-	SPARE	20/1	13	14	20/1	KITCHEN EXHAUST	H-24		
-	SPARE	20/1	15	16	20/1	SPARE	-		
-	SPARE	20/1	17	18	20/1	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.
- NOT USED.
- RANGE HOOD WITH INTEGRAL SWITCH.

ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

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

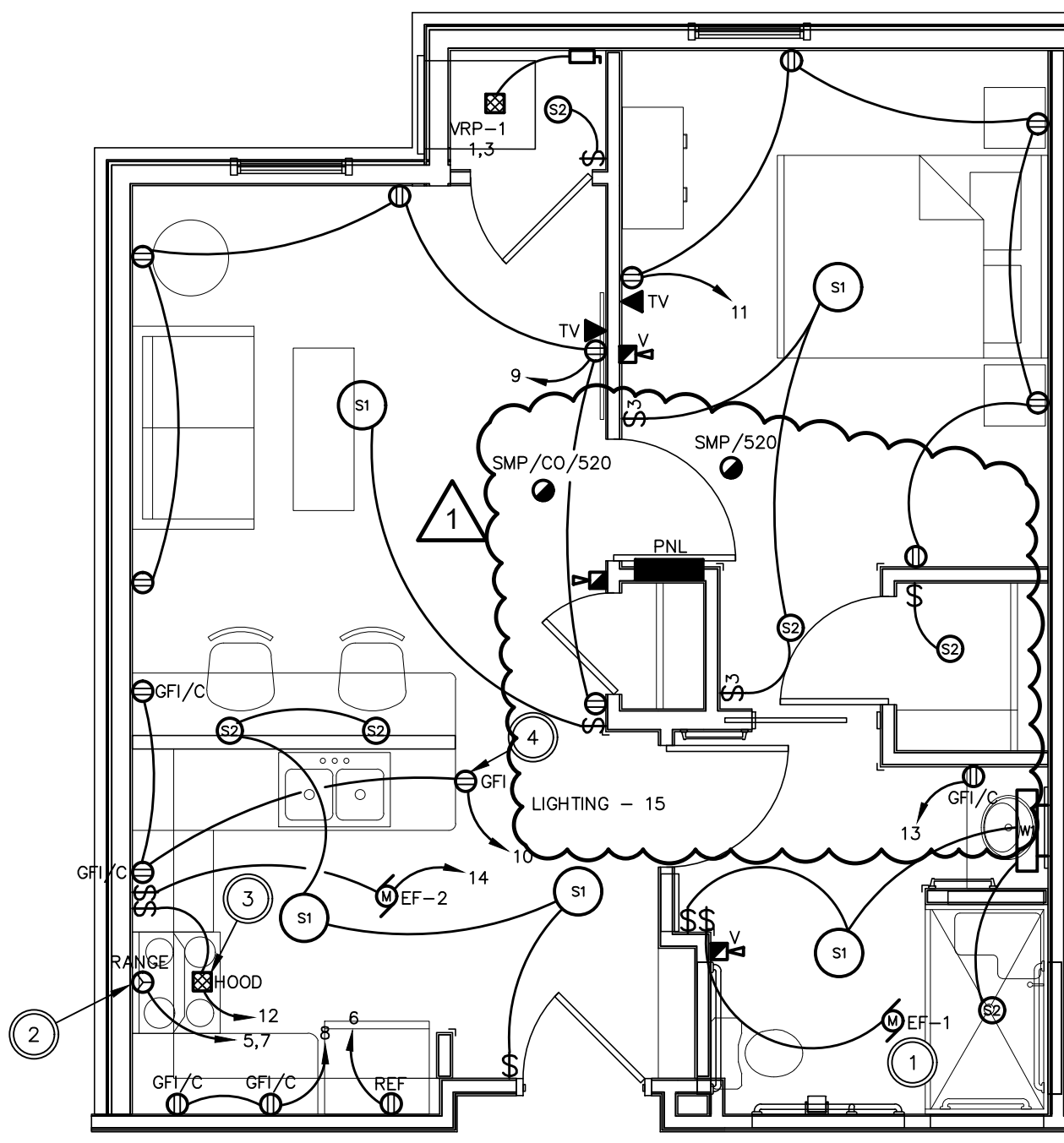
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE SPACE):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

STATE OF OHIO
 JAMES E. ECKMAN
 E-52748
 PROFESSIONAL ENGINEER

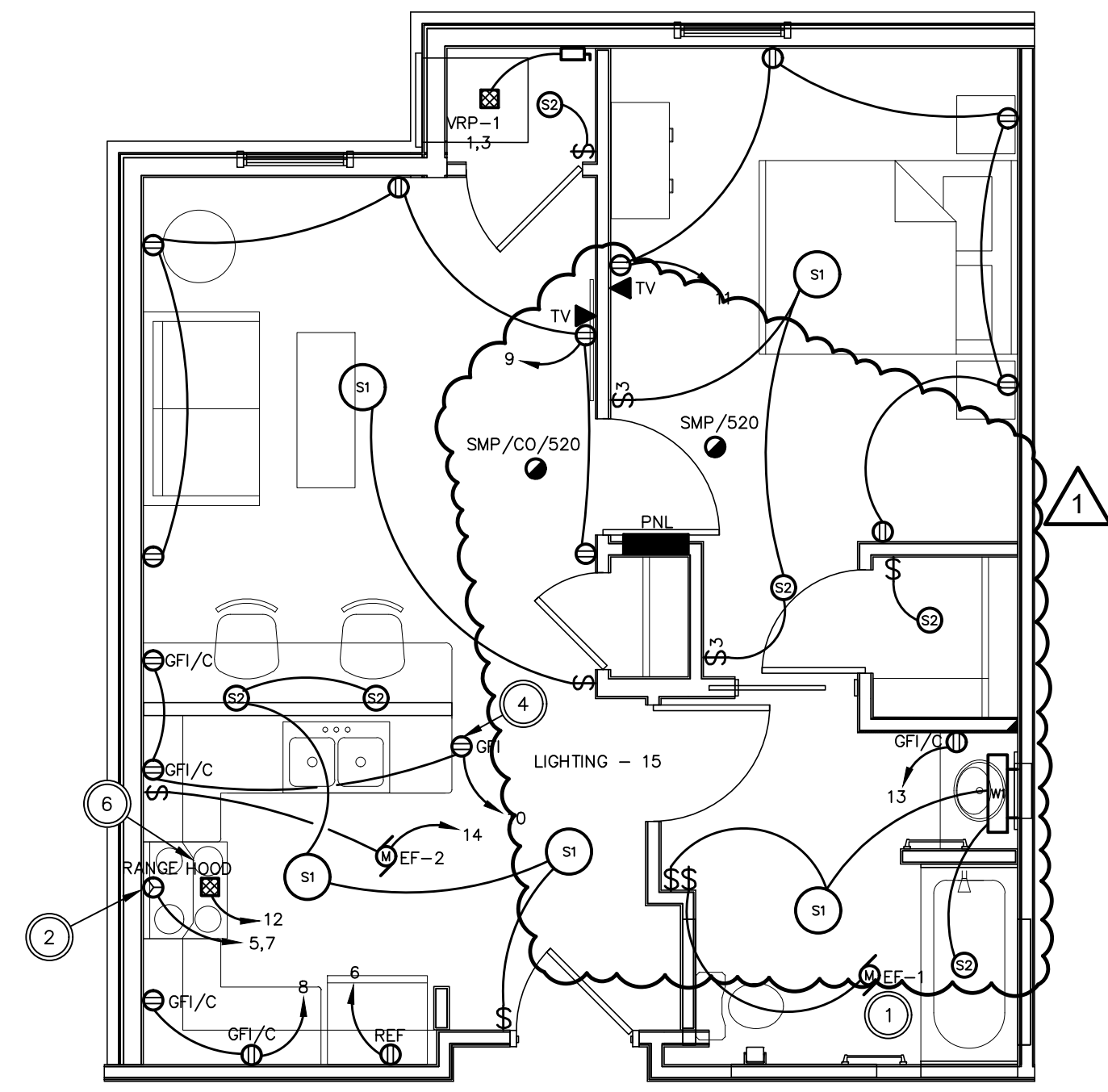
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NEW WORK - TYP. ONE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. ONE BEDROOM - ELECTRICAL

TYPICAL ONE BEDROOM - ELEC.

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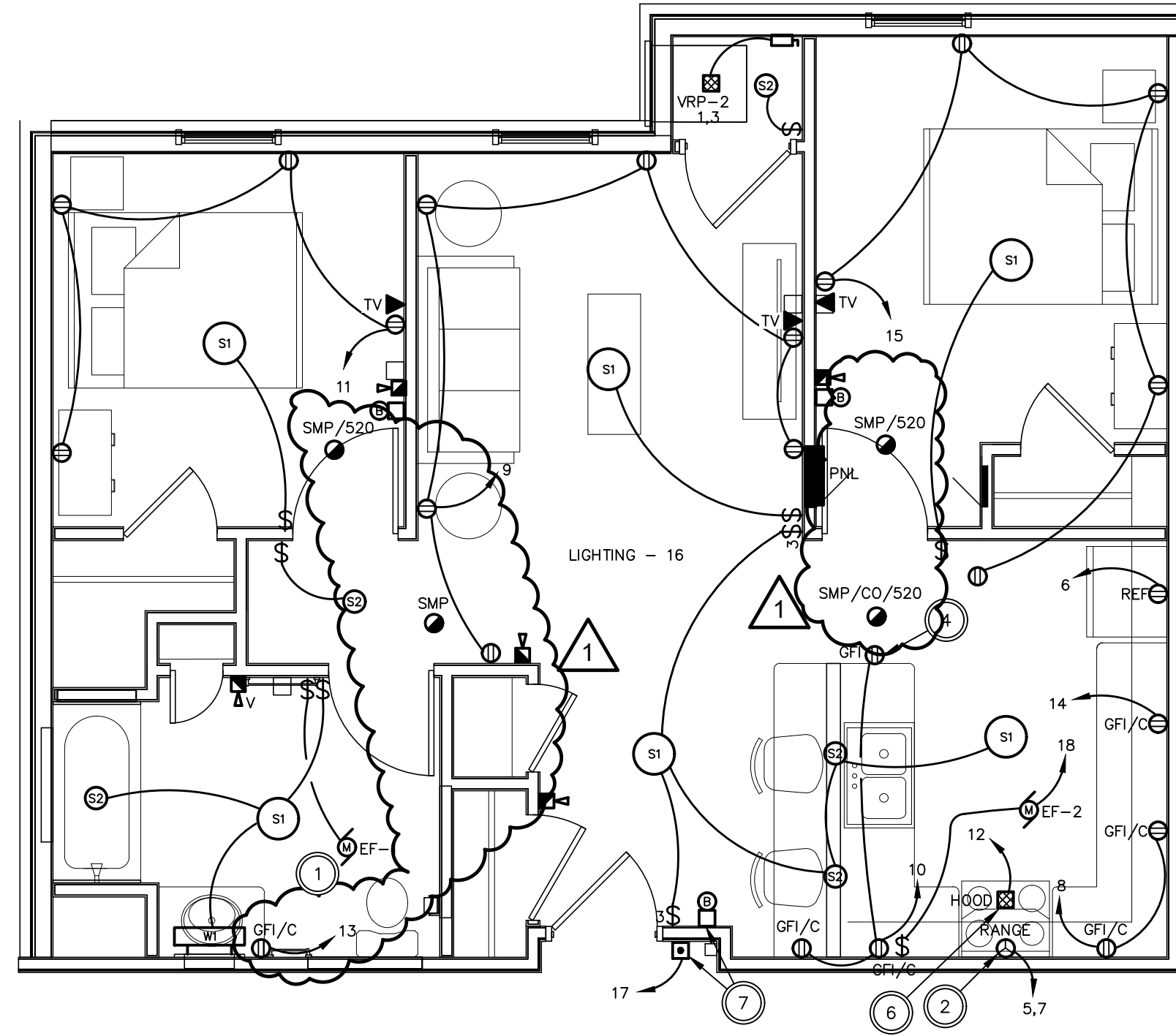
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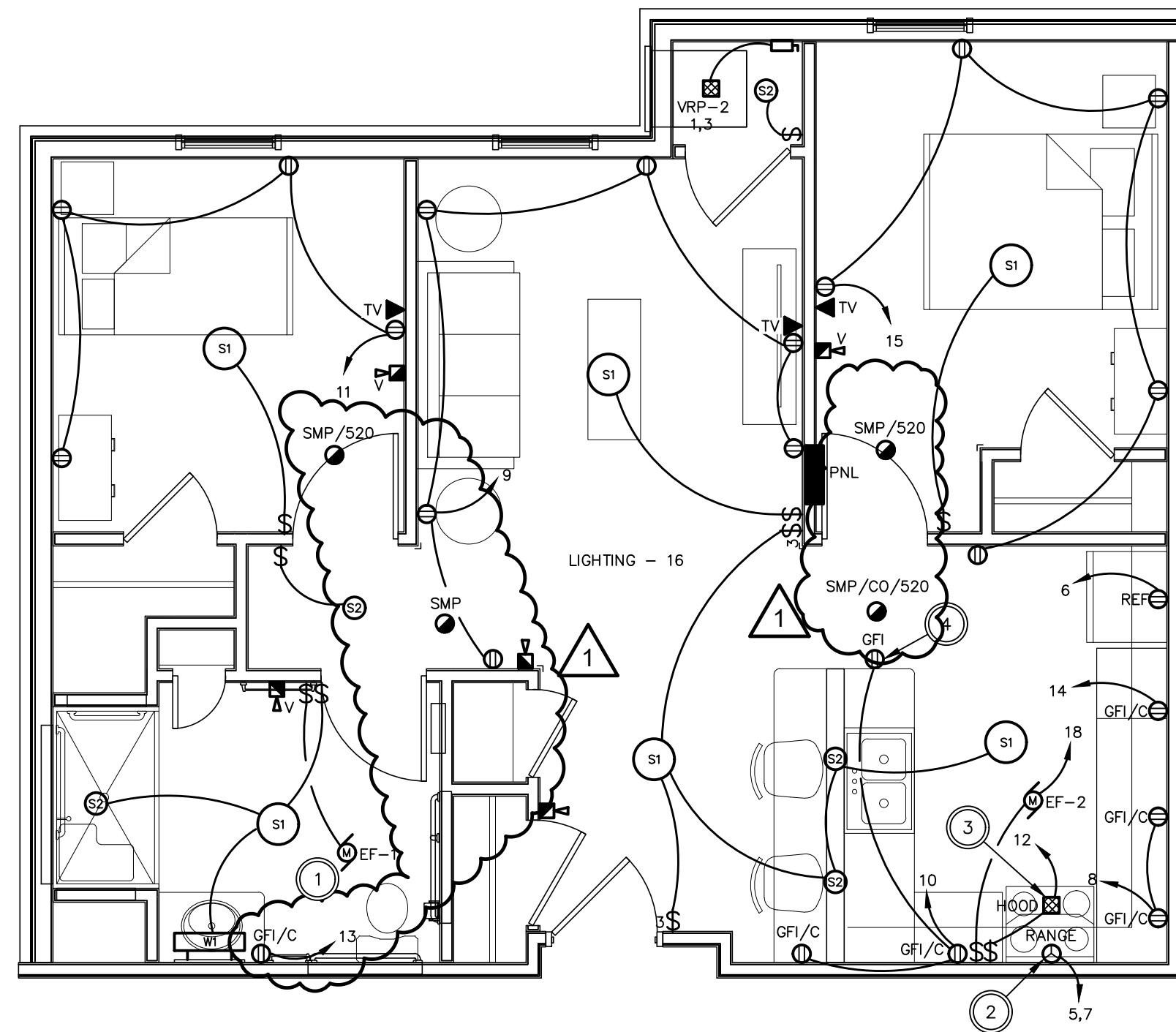
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E401
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NEW WORK - TYP. TWO BEDROOM S&H - ELECTRICAL



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: 150 AMPS,		1 LUGS,		150A CCT. BKR.		1			
FED FROM: UTILITY METER		FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS							
LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD		
H-7862	HVAC UNIT VRP-2	50/2	1	2	20/1	SPARE	-		
R-8000	RANGE	50/2	5	8	20/1	RECEPT. - REFRIGERATOR	R-1000		
R-1080	RECEPT. - LIVING ROOM	20/1	9	10	20/1	RECEPT. - KITCHEN COUNTER	R-360		
R-720	RECEPT. - BEDROOM	20/1	11	12	20/1	RECEPT. - KITCHEN PENINSULA	R-540		
R-180	RECEPT. - BATHROOM	20/1	13	14	20/1	RECEPT. - KITCHEN COUNTER	R-180		
R-900	RECEPT. - BEDROOM	20/1	15	16	20/1	LIGHTING	L-204		
M-50	DOORBELL (S&H UNIT ONLY)	20/1	17	18	20/1	KITCHEN EXHAUST	H-24		
-	SPARE	20/1	19	20	20/1	SPARE	-		
-	SPARE	20/1	21	22	20/1	SPARE	-		
-	SPARE	20/1	23	24	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.

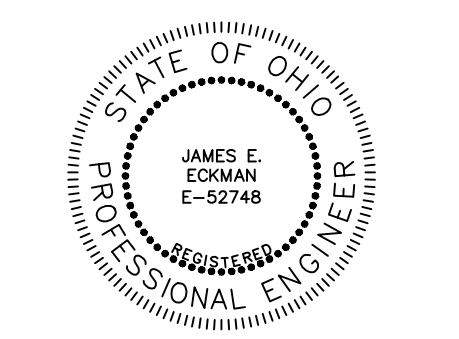
CODED NOTES

- 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.
- 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.
- NOT USED.
- 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.



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

REVISIONS

1	BULLETIN 01 - 07/17/2023

TYPICAL TWO BEDROOM - ELEC.
 GERMANTOWN CROSSING
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TURNING VISIONS INTO REALITY

03/31/2023
 DATE

82A21
 PROJECT NUMBER

E402
 DRAWING NUMBER

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TYPICAL THREE-BEDROOM PANELBOARD SCHEDULE

PANEL: <u>THREE-BED</u>		LOCATION: <u>AS NOTED ON PLAN</u>		MOUNTING: <u>FLUSH</u>			
SERVICE: <u>208/120</u> VOLTS, <u>1</u> PHASE, <u>3</u> WIRE, <u>60</u> HZ							
MAINS <u>200</u> AMPS, <u>-</u> LUGS, <u>200A</u> CCT. BKR.							
FED FROM <u>UTILITY METER</u> FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS							
LOAD	DESCRIPTION	CCT. BKR.	OCT. NO.	CCT. NO.	CCT. BKR.	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	5	6	20/1	SPARE	-
R-1080	RECEPT. - LIVING ROOM	20/1	9	10	20/1	RECEPT. - REFRIGERATOR	R-1000
R-360	RECEPT. - BATHROOMS	20/1	11	12	20/1	RECEPT. - KITCHEN COUNTER	R-360
R-720	RECEPT. - BEDROOM	20/1	13	14	20/1	RECEPT. - KITCHEN PENINSULA	R-540
R-720	RECEPT. - BEDROOM	20/1	15	16	20/1	RANGE HOOD	H-100
R-900	RECEPT. - BEDROOM	20/1	17	18	20/1	LIGHTING	L-290
R-360	RECEPT. - HALLWAY	20/1	19	20	20/1	KITCHEN EXHAUST	H-24
-	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.

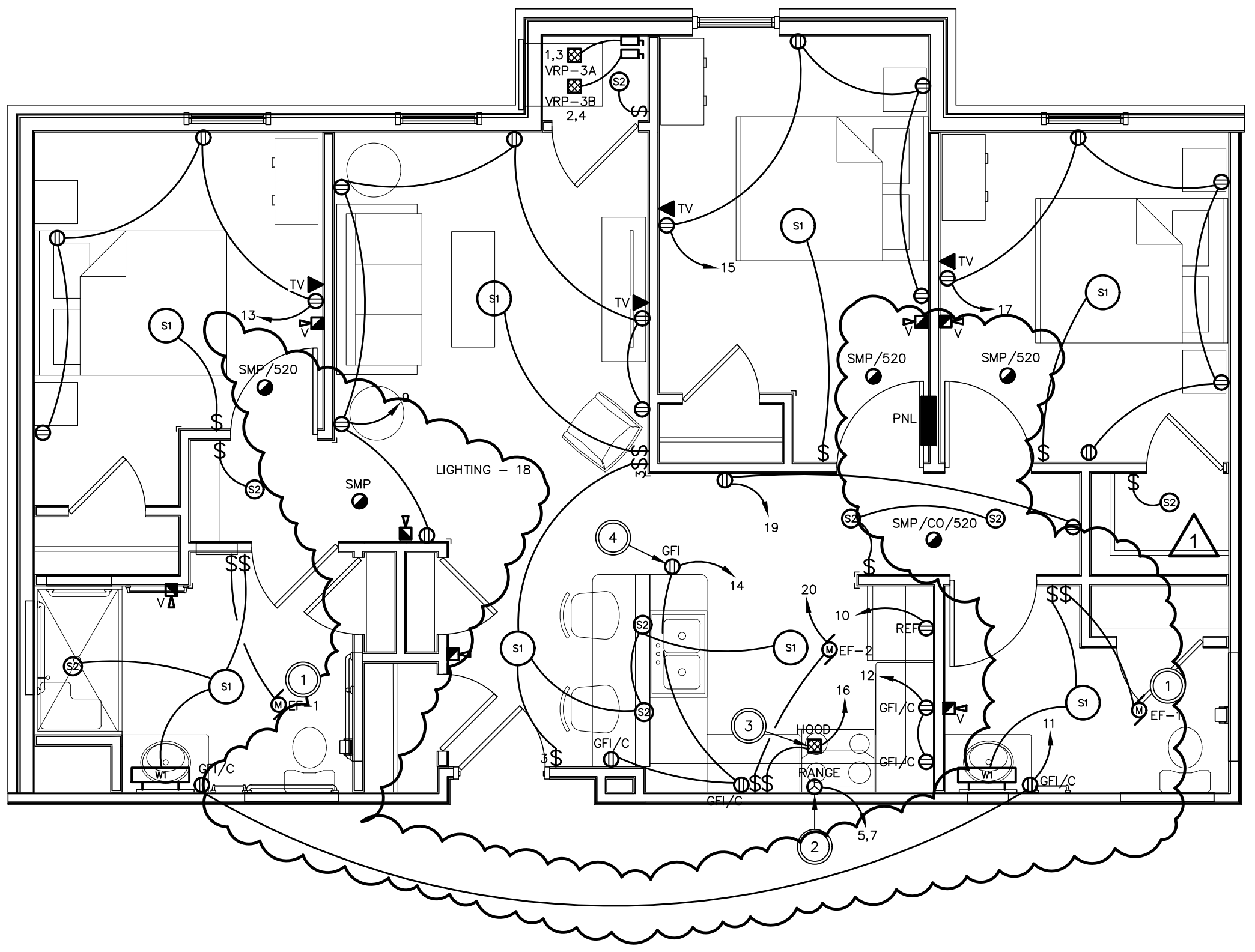
CODED NOTES

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- NEMA 14-50R RECEPTACLE FOR RANGE. CONNECT TO CIRCUIT INDICATED WITH (3)-#8, (1)-#10GND IN 3/4"C.
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- RECEPTACLE MOUNTED ON SIDE OF CABINET, 8" BELOW COUNTERTOP TO CENTERLINE.
- NOT USED.
- RANGE HOOD WITH INTEGRAL SWITCH.

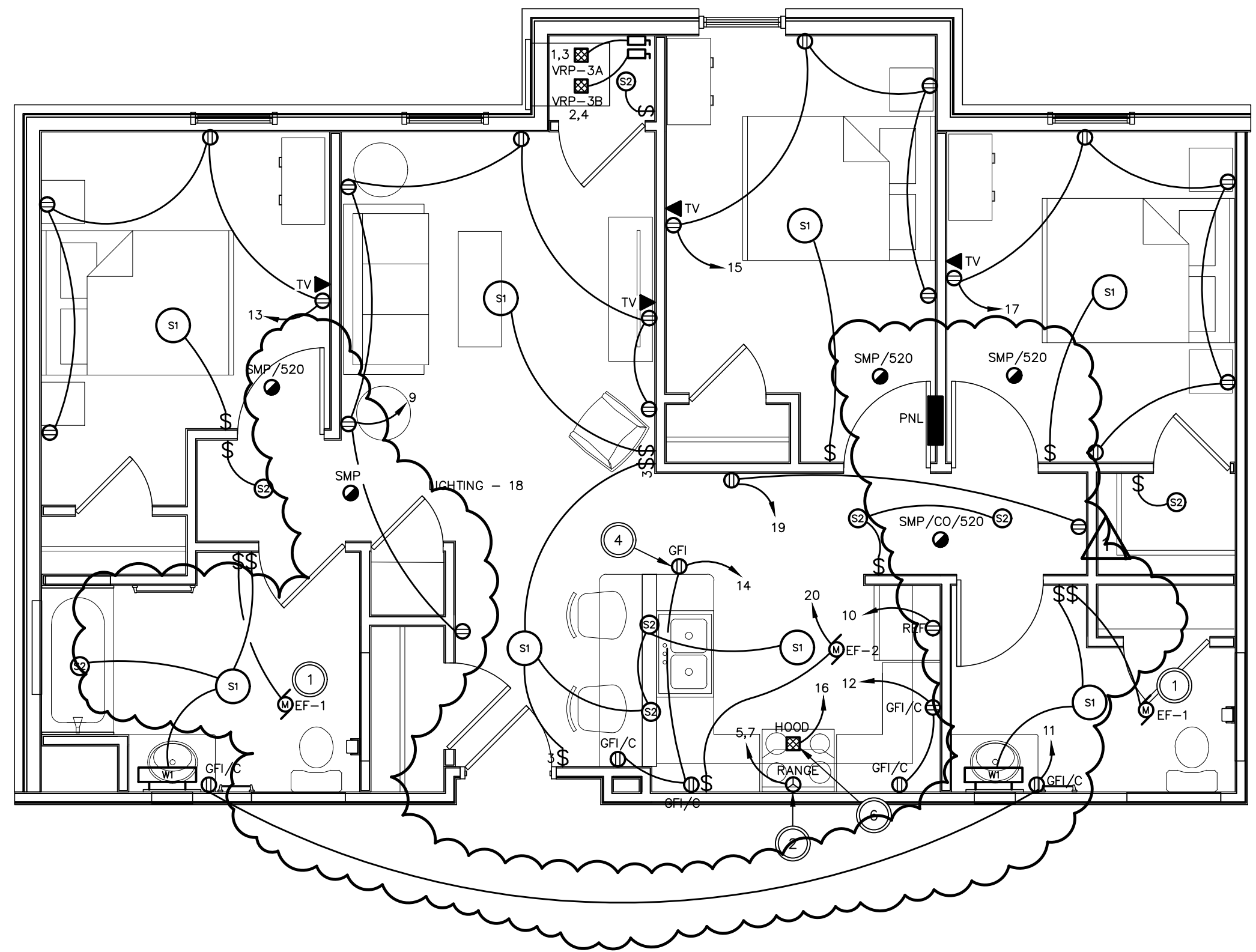
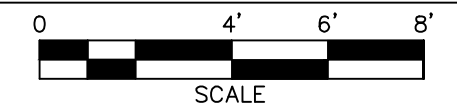
ACCESSIBILITY REQUIREMENTS FOR MOBILITY UNITS

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

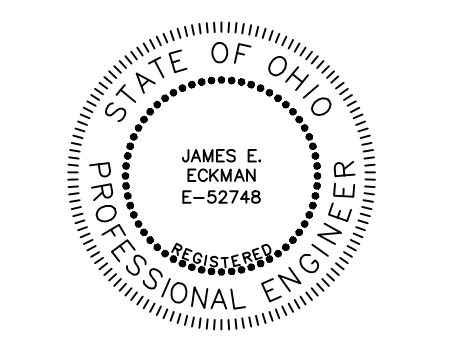
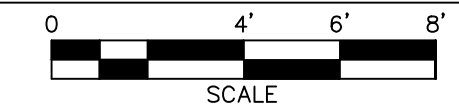
- FORWARD REACH WITH NO OBSTRUCTION:
 - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
 - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
 - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
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NEW WORK - TYP. THREE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. THREE BEDROOM - ELECTRICAL



J. E. Eckman 3/31/23
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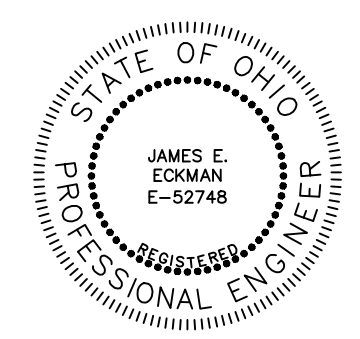
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MULTIFAMILY DWELLING UNIT LOAD CALCULATIONS

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
HVAC	6743	HVAC	7862	HVAC	12179
TOTAL	19420	TOTAL	21115	TOTAL	26122
TOTAL AMPS @ 208V, 1PH: 93A		TOTAL AMPS @ 208V, 1PH: 102A		TOTAL AMPS @ 208V, 1PH: 127A	

HOUSE LOAD CALCULATION

LOAD	CONNECTED VA	DEMAND VA
LIGHTING	7598	7598
RECEPTACLE	24440	17220
HVAC	147353	131353
WASHERS	4000	4000
DRYERS	20000	20000
ELEVATOR	43200	43200
MISCELLANEOUS	8120	5000
TOTAL	254711	228371
TOTAL DEMAND AMPS @ 208V, 3PH: 634A		

PLAN NOTES

- "LSI" ON BREAKER INDICATES INDEPENDENTLY-ADJUSTABLE TRIP UNIT.
L - LONG-TIME PICKUP
S - SHORT-TIME PICKUP
I - INSTANTANEOUS PICKUP
- 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, 36" WIDE X 24" DEEP X 60" TALL. PROVIDE "SCC" SERIES CABINET BY AMERICAN INDUSTRIES POWER (OR EQUAL).
- 200A/2P BREAKERS SERVICE 3-BED UNITS. 150A/2P BREAKERS SERVE 1-BED AND 2-BED UNITS.
- PROVIDE WIRE SIZE TO MATCH BREAKER SIZE AS REQUIRED.
- SPARE CIRCUIT BREAKER, LABELED "FUTURE PV ARRAY".
- 1" WITH PULLSTRING. CAP AND LABEL AT BOTH ENDS.
- 1" WITH PULLSTRING. EXTEND UP TO DESIGNATED PV ARRAY AREA ON ROOF. COORDINATE LOCATION WITH ARCHITECT AND OWNER. CAP AND LABEL AT BOTH ENDS.

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.
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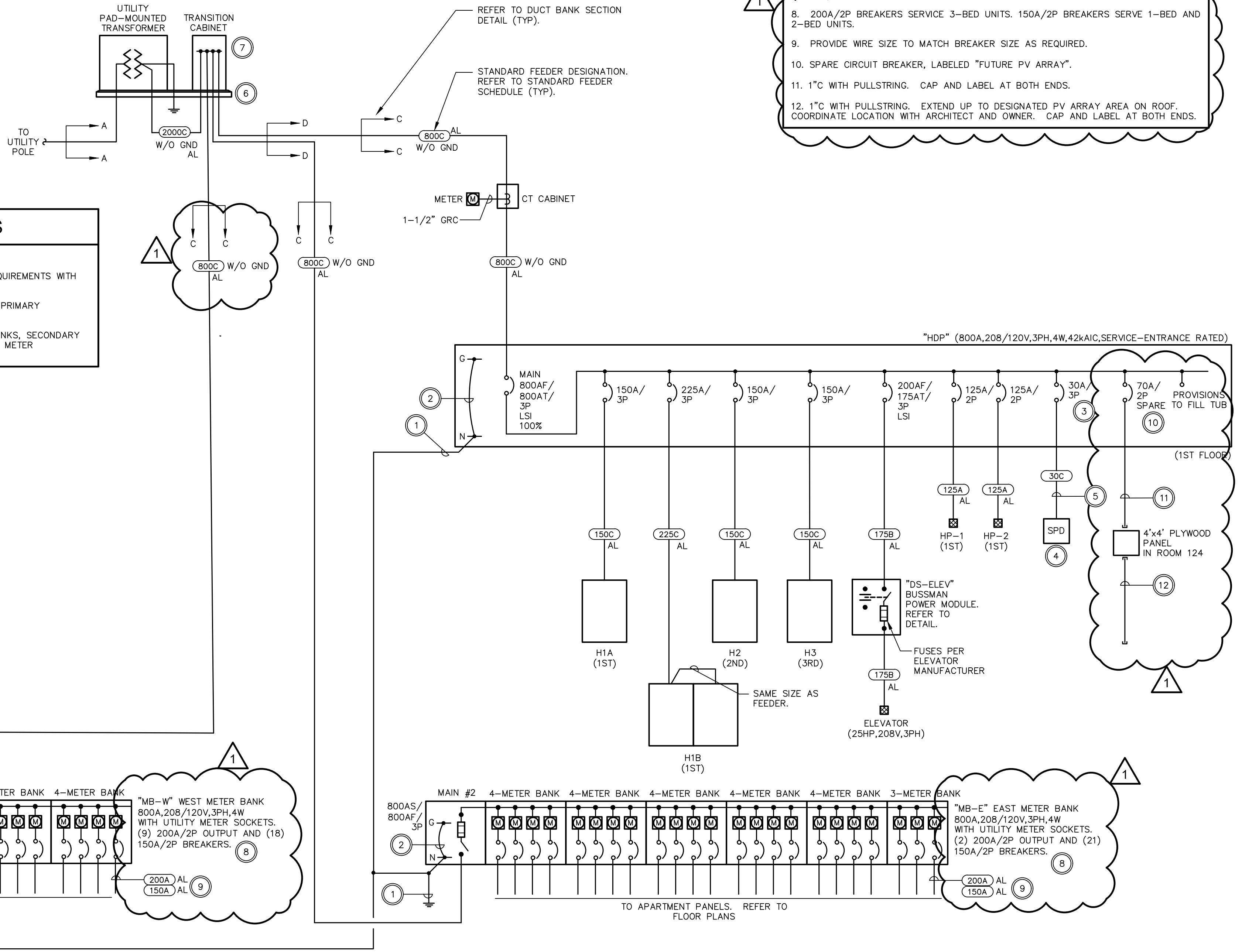
WEST METER BANK "MB-W"		EAST METER BANK "MB-E"	
NUMBER OF ONE-BED UNITS	6	NUMBER OF ONE-BED UNITS	7
NUMBER OF TWO-BED UNITS	12	NUMBER OF TWO-BED UNITS	14
NUMBER OF THREE-BED UNITS	9	NUMBER OF THREE-BED UNITS	2
TOTAL CONNECTED LOAD	605 KVA	TOTAL CONNECTED LOAD	483.8 KVA
DEMAND FACTOR (TABLE 220.84)	34%	DEMAND FACTOR (TABLE 220.84)	36%
TOTAL DEMAND LOAD	205.7 KVA	TOTAL DEMAND LOAD	174.2 KVA
TOTAL AMPS @ 208V, 3PH	571 A	TOTAL AMPS @ 208V, 3PH	483.4 A

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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LIGHTING FIXTURE SCHEDULE

SYMBOL	CATALOG NO.	DESCRIPTION	MOUNTING	LAMP(S)
D1	LDN4-30/10-L04-WH-MVOLT-G210-(EL)	LITHONIA: LDN4 SERIES DOWNLIGHT, 4" APERTURE, WHITE PAINTED REFLECTOR, 3000K, 888 LUMENS, 11 WATTS, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER. WHERE "EM" SUBSCRIPT IS SHOWN, PROVIDE INTEGRAL 10W BATTERY PACK WITH INTEGRAL TEST SWITCH.	CEILING RECESSED	INTEGRAL LED
FL1	X17FA-80	RAB: X17 SERIES FLOODLIGHT, 9-1/2" WIDE x 11" TALL x 3" DEEP, ALUMINUM HOUSING, 10,700 LUMENS, 82 WATTS, FIELD ADJUSTABLE COLOR TEMPERATURE (SET TO 3000K), INTEGRAL PHOTOCELL, WET LOCATION LISTED, BRONZE FINISH, AND (1) MULTI-VOLT LED DRIVER.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
POLE A	RSX2-P1-40K-R4-MVOLT-SPA-PE-TBD	LITHONIA: RSX SIZE 2 AREA LIGHT, TYPE IV DISTRIBUTION, 4000K, 11,100 LUMENS, 71 WATTS, INTEGRAL PHOTOCELL, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER. MOUNT TO 20" SQUARE ALUMINUM POLE.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
POLE B	(2)-RSX2-P1-40K-R4-MVOLT-SPA-PE-TBD	SAME AS POLE A, EXCEPT WITH (2) FIXTURES AT 180 DEGREES.	CONCRETE BASE. REFER TO DETAIL.	INTEGRAL LED
R1	2BLT2-33L-ADSM-MVOLT-G210-LP830-MSD7ADCX-(EL14L)	LITHONIA: BLT SERIES 2X2 TROFFER, CURVED CENTER ACRYLIC LENS, 3300 LUMENS, 3000K, 27 WATTS, INTEGRAL PIR OCCUPANCY SENSOR, AND (1) MULTI-VOLT LED DRIVER. WHERE "EM" SUBSCRIPT IS SHOWN, PROVIDE INTEGRAL 1400 LUMEN BATTERY PACK WITH INTEGRAL TEST SWITCH.	CEILING RECESSED	INTEGRAL LED
S1	P7253-0930K9	PROGRESS LIGHTING: ROUND DECORATIVE LIGHT, 14" DIAMETER, 3-3/4" TALL, STEEL BANDS WITH BRUSHED NICKEL FINISH, WHITE ACRYLIC DIFFUSER, 1184 LUMENS, 3000K, 22 WATTS, 120V.	CEILING SURFACE	INTEGRAL LED
S2	SMD6R-6-930-WH	COOPER 6" ROUND SURFACE DOWNLIGHT, POLYCARBONATE FRAME, WHITE ACRYLIC LENS, NON-CONDUCTIVE DEAD-FRONT TRIM, 600 LUMENS, 3000K, 10 WATTS, WHITE FINISH, 120V.	CEILING SURFACE	INTEGRAL LED
S3	CSS-L48-AL03-MVOLT-SWW3-80CRI	LITHONIA: CSS SERIES STRIP FIXTURE, 4' LONG, STEEL HOUSING, FLAT DIFFUSE ACRYLIC LENS, SWITCHABLE LUMENS (3000/4000/5000), SWITCHABLE COLOR TEMPERATURE (3500K/4000K/5000K), 44 WATTS AT HIGHEST OUTPUT, AND (1) MULTI-VOLT LED DRIVER.	CEILING SURFACE	INTEGRAL LED
S4	BLWP4-40L-ADSM-G21-LP830	LITHONIA: BLWP SERIES FIXTURE, 4' LONG, STEEL HOUSING, WHITE ACRYLIC LENS, 4000 LUMENS, 3000K, 35 WATTS, AND (1) MULTI-VOLT LED DRIVER (0-10V DIMMING)	CEILING SURFACE	INTEGRAL LED
S5	FEM-L48-4000LM-LPPCL-WD-MVOLT-G210-40K-80CRI	LITHONIA: ENCLOSED AND GASKETED INDUSTRIAL FIXTURE, 4' LONG, FIBERGLASS HOUSING, LOW-PROFILE CLEAR POLYCARBONATE LENS, WIDE DISTRIBUTION, 4000 LUMENS, 24 WATTS, 3000K, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	SURFACE. REFER TO FLOOR PLANS.	INTEGRAL LED
W1	P300223-009-30	PROGRESS LIGHTING: 24" CYLINDRICAL VANITY, ALUMINUM ENDCAPS AND BACKPLATE WITH BRUSHED NICKEL FINISH, WHITE ACRYLIC DIFFUSER, 1600 LUMENS, 22 WATTS, 3000K, 120V.	WALL SURFACE ABOVE MIRROR	INTEGRAL LED
W2	BLWP4-40L-PDSMT-G21-LP830-MSD7ADCX-DIM 50-E10WCP	LITHONIA: BLWP WALL FIXTURE, 4' LONG, STEEL HOUSING, WHITE POLYCARBONATE LENS, 4000 LUMENS, 3000K, 35 WATTS, INTEGRAL PIR OCCUPANCY SENSOR, INTEGRAL 10W BATTERY PACK, AND (1) MULTI-VOLT LED DRIVER. FIXTURE DIMS TO 50% WHEN NO OCCUPANCY IS DETECTED.	WALL SURFACE AT 7' AFF	INTEGRAL LED
W3	WPX2-40K-MVOLT-PE-TBD	LITHONIA: WPX SIZE 2 WALLPACK, 12" WIDE x 9" TALL x 4.1" DEEP, ALUMINUM HOUSING, 6000 LUMENS, 47 WATTS, 4000K, INTEGRAL PHOTOCELL, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT 9' AFG	INTEGRAL LED
W4	FEM-L48-3000LM-LPPFL-WD-MVOLT-G210-40K-80CRI-E10WCP	LITHONIA: ENCLOSED AND GASKETED INDUSTRIAL FIXTURE, 4' LONG, FIBERGLASS HOUSING, LOW-PROFILE FROSTED POLYCARBONATE LENS, 3000 LUMENS, 18 WATTS, 4000K, WET LOCATION LISTED, INTEGRAL BATTERY PACK, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE	INTEGRAL LED
W5	P7088-0930K9	PROGRESS LIGHTING: WALL SCONCE, CURVED WHITE ACRYLIC LENS WITH BRUSHED NICKEL BARS, 611 LUMENS, 17 WATTS, 3000K, 120V.	WALL SURFACE	INTEGRAL LED
W6	S175-R06L-HFCOX18-TBD-M-00-0-840-00	ELLIPTIPAR: S175 SERIES LINEAR FIXTURE, 6" LONG, ALUMINUM HOUSING, ASYMMETRIC DISTRIBUTION, ADJUSTABLE AIMING, 4588 LUMENS, 48 WATTS, WET LOCATION LISTED, AND (1) MULTI-VOLT LED DRIVER. MOUNT TO 18" CANTILEVER ARM AND AIM TO ILLUMINATE LETTERING. PROVIDE ALL REQUIRED JOINERS AND ENDCAPS FOR MULTIPLE ADJACENT FIXTURES.	WALL SURFACE ABOVE LETTERING	INTEGRAL LED
W7	P710118-009	PROGRESS LIGHTING: DECORATIVE WALL SCONCE, CURVED WHITE GLASS LENS WITH BRUSHED NICKEL BARS, (2) MEDIUM-BASE E26 LAMP SOCKETS, 120V. PROVIDE WITH (2) 3500K LED A19 BULBS (12.5 WATT MAX PER BULB).	WALL SURFACE	INTEGRAL LED
HO	ELM4L	LITHONIA: QUANTUM EMERGENCY LIGHT WITH (2) ADJUSTABLE LED HEADS, WHITE THERMOPLASTIC HOUSING, INTEGRAL NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL SURFACE AT 7' AFF	INTEGRAL LED
LHQM-LED-R-HO-RO	LITHONIA: QUANTUM EXIT SIGN, WHITE THERMOPLASTIC HOUSING, RED LETTERS, INTEGRAL HIGH-OUTPUT NICAD BATTERY SUITABLE FOR CONNECTION TO EMERGENCY HEAD, AND (1) MULTI-VOLT LED DRIVER.	WALL OR CEILING SURFACE	INTEGRAL LED	
LQW-S-W-3-R-MVOLT	LITHONIA: QUANTUM EXIT SIGN, WHITE THERMOPLASTIC HOUSING, RED LETTERS, INTEGRAL NICAD BATTERY, AND (1) MULTI-VOLT LED DRIVER.	WALL OR CEILING SURFACE	INTEGRAL LED	
ELMRW-LP220L-TBD-T	LITHONIA: QUANTUM EMERGENCY REMOTE LIGHT WITH (2) ADJUSTABLE LED HEADS, ALUMINUM HOUSING. CONNECT TO EXIT SIGN PER DETAIL. COORDINATE FINISH WITH ARCHITECT.	WALL SURFACE ABOVE DOOR	INTEGRAL LED	

ENGINEER APPROVED EQUIVALENT FIXTURES BY THE FOLLOWING MANUFACTURERS ARE ACCEPTABLE:

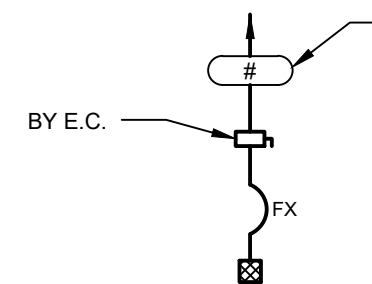
SYMBOL	MANUFACTURER
D1	H.E. WILLIAMS, COOPER, LIGHTOLIER, PRESCOLITE
FL1	ASD LIGHTING, COOPER, ILP
POLE A,B	LSI, EATON, HUBBELL, COOPER, SIGNIFY, CURRENT
R1	H.E. WILLIAMS, COOPER, EATON, HUBBELL, SIGNIFY
S1	SUNPARK, SUNLITE, LUMENCIA
S2	AFX, JUNO, ARTIKA PRO, LIGHTOLIER, GM LIGHTING
S3	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
S4	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
S5	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
W1	SUNPARK, ARTIKA PRO, LUMENCIA
W2	COOPER, PARAMOUNT, CURRENT
W3	PERFORMANCE IN LIGHTING, SIGNIFY, CURRENT
W4	COOPER, H.E. WILLIAMS, SIGNIFY, HUBBELL, EATON, CURRENT
W5,W7	AFX, SUNLITE, LUMENCIA
W6	PROVIDE SUBSTITUTION CUTSHEET TO ARCHITECT FOR APPROVAL.
EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES	EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES
EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES	EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES

LIGHTING FIXTURE NOTES:

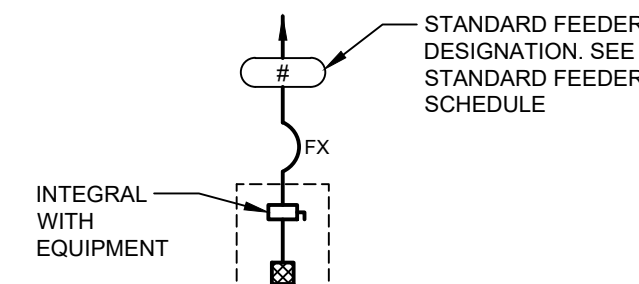
- CONFIRM ALL FINISH COLORS WITH ARCHITECT.
- "NL" SUBSCRIPT INDICATES THAT FIXTURE IS CONNECTED TO AN UNSWITCHED CIRCUIT FOR "NIGHT LIGHT" ILLUMINATION.
- "EM" SUBSCRIPT INDICATES THAT FIXTURE CONTAINS AN INTEGRAL BATTERY PACK FOR EMERGENCY ILLUMINATION.

MECHANICAL EQUIPMENT SCHEDULE

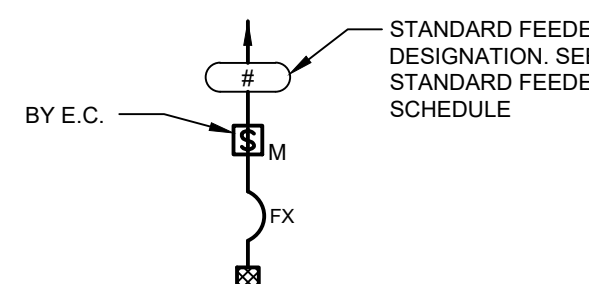
MECHANICAL EQUIPMENT DESIGNATION	DESCRIPTION	LOCATION	APPARENT POWER	HP	VOLTAGE	PHASE	WIRE/CONDUIT (NOTE 1)	DISCONNECT DESIGNATION	DISCONNECT DESCRIPTION (NOTE 2)	DISCONNECT LOCATION	STARTER DESCRIPTION (NOTE 3)	CONNECTION TYPE (NOTE 4)	REMARKS
ACCU/EQU-1	SPLIT-SYSTEM AIR-CONDITIONING UNIT	EXTERIOR / ELEV. MACH. ROOM	3200	-	208	1	25A	DS-ACCU-1	30A/240V/2P/25AF/NEMA 3R	ADJACENT TO ACCU-1	INTEGRAL	7	19 MCA, 26A MOP.
CU-1	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-1	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP
CU-2	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-2	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP
CU-3	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-3	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP
CU-4	CONDENSING UNIT	EXTERIOR	3952	-	208	1	35A	DS-CU-4	60A/240V/2P/35AF/NEMA 3R	ADJACENT TO UNIT	INTEGRAL	1	29.1 MCA, 35A MOP
DWH-1	GAS WATER HEATER	MECH ROOM	600	-	120	1	20A	DS-DWH-1	TOGGLE SWITCH DISCONNECT	ADJACENT TO UNIT	INTEGRAL	4	
DWH-2	GAS WATER HEATER	MECH ROOM	600	-	120	1	20A	DS-DWH-2	TOGGLE SWITCH DISCONNECT	ADJACENT TO UNIT	INTEGRAL	4	
ECH-1	ELECTRIC CABINET HEATER	VARIOUS	4800	-	208	1	30A		INTEGRAL		INTEGRAL	2	
EW-1	ELECTRIC WALL HEATER	VARIOUS	6000	-	208	1	40A		INTEGRAL		INTEGRAL	2	
EF-1	INLINE EXHAUST FAN	VARIOUS	20	-	120	1	20A		TOGGLE SWITCH	ON WALL NEAR UNIT		5	REFER TO FLOOR PLANS FOR CONTROL
EF-2	INLINE EXHAUST FAN	VARIOUS	24	-	120	1	20A		TOGGLE SWITCH IN APARTMENTS. TIMER SWITCH IN PUBLIC RESTROOMS	ON WALL NEAR UNIT		4	REFER TO FLOOR PLANS FOR CONTROL
EF-3	INLINE EXHAUST FAN	VARIOUS	64	-	120	1	20A	DS-EF-3	MANUAL MOTOR STARTER	ON WALL NEAR UNIT		3	FAN SHALL RUN CONTINUOUSLY
EF-4	INLINE EXHAUST FAN	VARIOUS	81	-	120	1	20A	DS-EF-4	MANUAL MOTOR STARTER	ON WALL NEAR UNIT		3	FAN SHALL RUN CONTINUOUSLY
EF-5	INLINE EXHAUST FAN	VARIOUS	12	-	120	1	20A	DS-EF-5	MANUAL MOTOR STARTER	ON WALL NEAR UNIT		3	FAN SHALL RUN CONTINUOUSLY
HP-1	HEAT PUMP	1ST FLOOR	20000	-	208	1	125A		INTEGRAL		INTEGRAL	2	
HP-2	HEAT PUMP	1ST FLOOR	20000	-	208	1	125A		INTEGRAL		INTEGRAL	2	
HP-3	HEAT PUMP	2ND FLOOR	10000	-	208	1	70A		INTEGRAL		INTEGRAL	2	
HP-4	HEAT PUMP	3RD FLOOR	10000	-	208	1	70A		INTEGRAL		INTEGRAL	2	
RDHWP	DOMESTIC WATER RECIRCULATION PUMP	1ST FLOOR	1176	1/2	120	1	20A		MANUAL MOTOR STARTER	ADJACENT TO UNIT	SEE REMARKS	6	PROVIDE WITH RELAY-IN-A-BOX
VRP-1	VERTICAL HEAT PUMP	1-BED UNITS	6743	-	208	2	45A	DS-VRP-1	60A/240V/2P/45AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	41.8 MCA, 45A MOP
VRP-2	VERTICAL HEAT PUMP	2-BED UNITS	7862	-	208	2	50A	DS-VRP-2	60A/240V/2P/45AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	49.2 MCA, 50A MOP
VRP-3A	VERTICAL HEAT PUMP - CIRCUIT #1	3-BED UNITS	8186	-	208	2	50A	DS-VRP-3A	60A/240V/2P/50AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	49.2 MCA, 50A MOP
VRP-3B	VERTICAL HEAT PUMP - CIRCUIT #2	3-BED UNITS	3993	-	208	2	25A	DS-VRP-3B	30A/240V/2P/24AF/NEMA 1	ADJACENT TO UNIT	INTEGRAL	1	24 MCA, 25A MOP



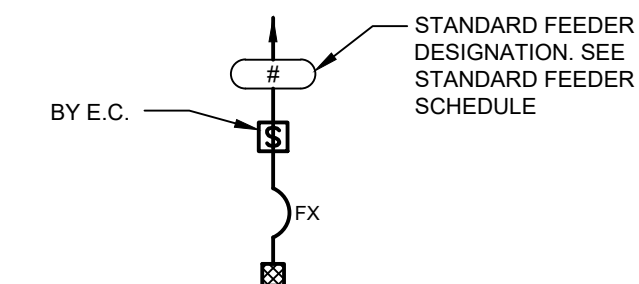
CONNECTION TYPE 1 DIAGRAM
N.T.S.



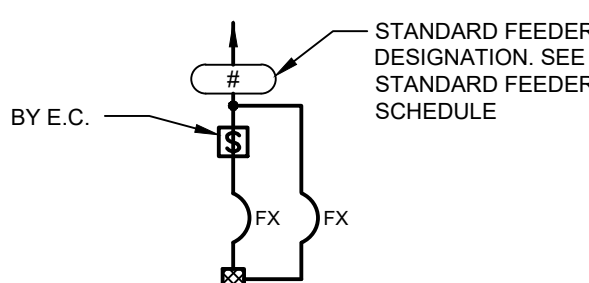
CONNECTION TYPE 2 DIAGRAM
N.T.S.



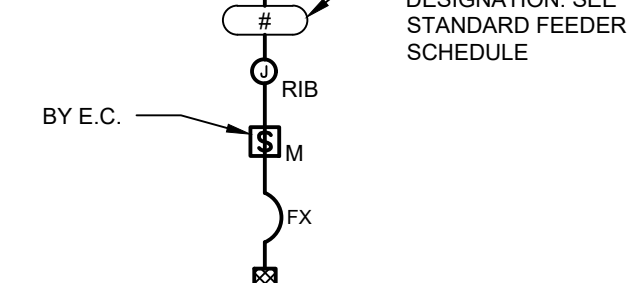
CONNECTION TYPE 3 DIAGRAM
N.T.S.



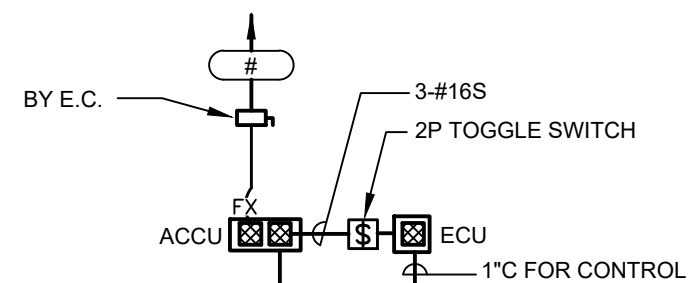
CONNECTION TYPE 4 DIAGRAM
N.T.S.



CONNECTION TYPE 5 DIAGRAM
N.T.S.



CONNECTION TYPE 6 DIAGRAM
N.T.S.



CONNECTION TYPE 7 DIAGRAM
N.T.S.

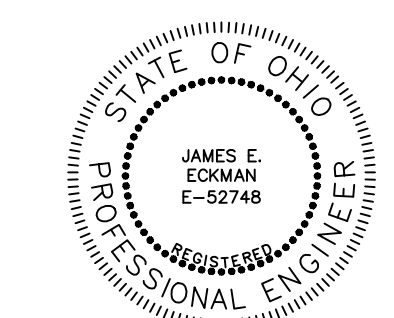
PANELBOARD SCHEDULE

PANEL: H1A LOCATION: 1ST FLOOR MOUNTING: SURFACE
 SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
 MAINS 150 AMPS, X LUGS, ----- CCT. BKR.
 FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
R-900	RECEPT. - HALLWAYS	20/1	1	2	20/1	RECEPT. - MECH/WATER SERVICE ROOM, EXTERIOR	R-900
H-4800	CABINET HEATER - MAIN VESTIBULE	30/2	3	4	20/1	RECEPT. - MAIN LOBBY	R-540
H-3952	CU-2	35/2	7	8	20/1	PARKING LOT LIGHTING	L-639
-	SPARE	20/1	11	10	20/1	MONUMENT SIGN LIGHTING	L-164
-	SPARE	20/1	13	12	20/1	LIGHTING - MAINTENANCE ROOM	L-544
H-4800	CABINET HEATER - TRASH	30/2	15	14	20/1	LIGHTING - SOUTH STAIRWELL	L-292
H-6000	WALL HEATER - STAIRWELL	40/2	17	16	20/1	FIRE ALARM CONTROL PANEL	M-200
H-6000	WALL HEATER - MAINTENANCE	40/2	19	18	20/3	EF-4 - MAINTENANCE	H-81
H-6000	WALL HEATER - MAINTENANCE	40/2	21	20	20/3	TRASH COMPACTOR	M-3960
P-600	DWH-1	20/1	23	22	30/1	DRY-PIPE SUPPRESSION SYSTEM	M-500
P-600	DWH-2	20/1	25	24	20/1	MAIN ENTRANCE AUTO DOORS	M-200
P-50	MASTER MIXING VALVE	20/1	27	26	20/1	DOMESTIC WATER RECIRC PUMP	P-1176
-	SPARE	20/1	29	30	20/1	SPARE	-
-	SPARE	20/1	31	32	20/1	SPARE	-
-	SPARE	20/1	33	34	20/1	SPARE	-
-	SPARE	20/1	35	36	20/1	SPARE	-
-	SPARE	20/1	37	38	20/1	SPARE	-
-	SPARE	20/1	39	40	20/1	SPARE	-
-	SPARE	20/1	41	42	20/1	SPARE	-

REMARKS:
 1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.

LOAD LEGEND:
 R - RECEPTACLES
 L - LIGHTING
 P - PLUMBING
 H - HVAC
 K - KITCHEN
 M - MISCELLANEOUS
 F - FUTURE



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

REVISIONS
 BULLETIN 01-07/17/2023

SCHEDULES - ELECTRICAL
 GERMANTOWN CROSSING
 DAYTON OHIO

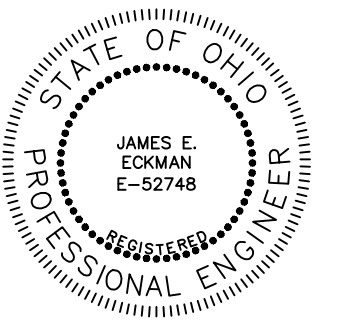


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TURNING VISIONS INTO REALITY

03/31/2023
 DATE
 82A21
 PROJECT NUMBER

E601
 DRAWING NUMBER



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

REVISIONS
BULLETIN 01 - 07/17/2023

SCHEDULES - ELECTRICAL
GERMANTOWN CROSSING
DAYTON OHIO



ARCHITECTS

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TURNING VISIONS
INTO REALITY

03/31/2023
DATE

82A21
PROJECT NUMBER

E602
DRAWING NUMBER

PANELBOARD SCHEDULE
PANEL: H2 LOCATION: 2ND FLOOR MOUNTING: FLUSH
SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
MAINS 150 AMPS, X LUGS, CCT. BKR.
FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
M-5000	RECEPT. - DRYER	30/2	1	2	30/2	RECEPT. - DRYER	M-5000
M-5000	RECEPT. - DRYER	30/2	3	4	30/2	RECEPT. - DRYER	M-5000
M-5000	RECEPT. - DRYER	30/2	5	6	30/2	RECEPT. - DRYER	M-5000
M-1000	RECEPT. - WASHER	20/1	9	10	20/1	RECEPT. - WASHER	M-1000
M-1000	RECEPT. - WASHER	20/1	11	12	20/1	RECEPT. - WASHER	M-1000
R-1080	RECEPT. - COMPUTERS	20/1	13	14	20/1	RECEPT. - LAUNDRY	R-540
R-360	RECEPT. - DATA CLOSET	20/1	15	16	20/1	RECEPT. - HALLWAYS	R-900
R-360	RECEPT. - DATA CLOSET	20/1	17	18	20/1	RECEPT. - HALLWAYS	R-720
H-10000	HP-3	70/2	19	20	20/1	RECEPT. - HALLWAYS	R-900
H-4800	CABINET HEATER - TRASH	30/2	23	24	20/1	LIGHTING - NORTH CORRIDOR, LAUNDRY	L-914
			25	26	20/1	LIGHTING - SOUTH CORRIDOR	L-454
			27	28	20/1	EF-5 - WEST TRASH ROOM	H-12
			29	30	20/1	EF-5 - EAST TRASH ROOM	H-12
			31	32	20/1	SPARE	
			33	34	20/1	SPARE	
			35	36	20/1	SPARE	
			37	38	20/1	SPARE	
			39	40	20/1	SPARE	
			41	42	20/1	SPARE	

REMARKS:
1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.
2. PROVIDE SUB-FEED OR FEED-THRU LUGS TO SERVE SECTION 2.

LOAD LEGEND:
R - RECEPTACLES K - KITCHEN
L - LIGHTING M - MISCELLANEOUS
P - PLUMBING F - FUTURE
H - HVAC

PANELBOARD SCHEDULE
PANEL: H1B (SECTION 2) LOCATION: 1ST FLOOR MOUNTING: SURFACE
SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
MAINS 225 AMPS, X LUGS, CCT. BKR.
FED FROM H1B (SECTION 1) FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
L-825	LIGHTING - WEST CORRIDOR	20/1	43	44	20/1	RECEPT. - NORTH ENTRANCE, RESTROOMS	R-540
L-352	LIGHTING - MAILROOM, MECHANICAL CORRIDOR, RESTROOMS	20/1	45	46	20/1	LIGHTING - OFFICES, LOBBY	L-412
L-307	LIGHTING - COMMUNITY ROOM	20/1	47	48	20/1	LIGHTING - FRONT CANOPY	L-66
L-413	LIGHTING - SOUTH CORRIDOR	20/1	49	50	20/1	LIGHTING - COMM. ROOM CANOPY, BUILDING SPONGE, TOWER	L-800
L-292	LIGHTING - WEST STAIRWELL	20/1	51	52	40/2	WALL HEATER - STAIRWELL	H-6000
H-6000	WALL HEATER - TRASH	40/2	55	56	30/2	CABINET HEATER - TRASH COMPACTOR	H-4800
H-64	EF-3 - TRASH	20/1	57	58			
	SPARE	20/1	59	60	20/3	TRASH COMPACTOR	M-3960
	SPARE	20/1	61	62			
	SPARE	20/1	63	64			
	SPARE	20/1	65	66	20/1	SPARE	
	SPARE	20/1	67	68	20/1	SPARE	
	SPARE	20/1	69	70	20/1	SPARE	
	SPARE	20/1	71	72	20/1	SPARE	
	SPARE	20/1	73	74	20/1	SPARE	
	SPARE	20/1	75	76	20/1	SPARE	
	SPARE	20/1	77	78	20/1	SPARE	
	SPARE	20/1	79	80	20/1	SPARE	
	SPARE	20/1	81	82	20/1	SPARE	
	SPARE	20/1	83	84	20/1	SPARE	

REMARKS:
1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.

LOAD LEGEND:
R - RECEPTACLES K - KITCHEN
L - LIGHTING M - MISCELLANEOUS
P - PLUMBING F - FUTURE
H - HVAC

PANELBOARD SCHEDULE
PANEL: H1B (SECTION 1) LOCATION: 1ST FLOOR MOUNTING: SURFACE
SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
MAINS 225 AMPS, X LUGS, CCT. BKR.
FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
R-360	RECEPT. - SECURITY RACK	20/1	1	2	20/1	RECEPT. - ELEVATOR MACHINE ROOM	R-180
R-200	ELEVATOR CAB LIGHTING	20/1	3	4	20/1	RECEPT. - ELEVATOR PIT	R-180
R-720	RECEPT. - OFFICE C116	20/1	5	6	20/1	RECEPT. - OFFICE C113	R-720
R-900	RECEPT. - CONFERENCE C118, EXTERIOR	20/1	7	8	20/1	RECEPT. - OFFICE C115 / LOBBY	R-720
L-88	LIGHTING - ELEVATOR MACHINE ROOM	20/1	9	10	20/1	RECEPT. - OFFICE C115 COPIER	R-1000
L-36	LIGHTING - ELEVATOR PIT	20/1	11	12	20/1	RECEPT. - HALLWAYS	R-1080
R-720	RECEPT. - COMMUNITY ROOM, EXTERIOR	20/1	13	14	20/1	RECEPT. - HALLWAYS	R-900
R-720	RECEPT. - COMMUNITY ROOM	20/1	15	16	20/1	RECEPT. - KITCHEN	R-360
R-720	RECEPT. - COMMUNITY ROOM, EXTERIOR	20/1	17	18	20/1	RECEPT. - KITCHEN	R-540
	SPARE	20/1	19	20	20/1	RECEPT. - KITCHEN REFRIGERATOR	R-1000
	SPARE	20/1	21	22	20/1	RECEPT. - DATA CLOSET	R-360
H-4800	CABINET HEATER - COMMUNITY ROOM	30/2	23	24	20/1	RECEPT. - DATA CLOSET	R-360
			25	26	20/1	SPARE	
H-4800	CABINET HEATER - WEST ENTRANCE	30/2	27	28	25/2	ELEVATOR MACHINE ROOM SPLIT-SYSTEM	H-3200
			29	30			
H-3952	CU-1	35/2	31	32	20/1	SPARE	
			33	34	20/1	SPARE	
H-3952	CU-3	35/2	35	36	20/1	RECEPT. - ELEVATOR OIL MINDER	R-200
			37	38	30/2	CABINET HEATER - NORTH ENTRANCE	H-4800
H-3952	CU-4	35/2	39	40	20/1	RECEPT. - DRINKING FOUNTAIN, NORTH ENTRANCE	R-600
			41	42	20/1		

REMARKS:
1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.
2. PROVIDE SUB-FEED OR FEED-THRU LUGS TO SERVE SECTION 2.

LOAD LEGEND:
R - RECEPTACLES K - KITCHEN
L - LIGHTING M - MISCELLANEOUS
P - PLUMBING F - FUTURE
H - HVAC

STANDARD FEEDER SCHEDULE

FEEDER NO.	WIRE SIZE AMPS NOMINAL FEEDER SIZE (AMPS)	CONDUCTOR SIZE (AWG)				CONDUIT SIZE					
		PHASE/NEUTRAL		GROUND		A		B		C	
						2C		3C		4C	
		CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
15	15	12	-	12	-	3/4"	-	3/4"	-	3/4"	-
20	20	12	-	12	-	3/4"	-	3/4"	-	3/4"	-
25	25	10	-	10	-	3/4"	-	3/4"	-	3/4"	-
30	30	10	-	10	-	3/4"	-	3/4"	-	3/4"	-
35	35	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
40	40	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
45	45	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
50	50	8	-	10	-	3/4"	-	3/4"	-	3/4"	-
60	60	6	-	10	-	3/4"	-	3/4"	-	1"	-
70	70	4	-	8	-	1"	-	1"	-	1-1/2"	-
80	80	4	-	8	-	1"	-	1"	-	1-1/2"	-
90	90	3	-	8	-	1"	-	1-1/2"	-	1-1/2"	-
100	100	2	1	8	6	1"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
110	110	2	1/0	6	4	1"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
125	125	1	2/0	6	4	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"
150	150	1/0	3/0	6	4	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"
175	175	2/0	4/0	6	4	1-1/2"	1-1/2"	2"	2"	2"	2"
200	200	3/0	250	6	4	1-1/2"	2"	2"	2"	2"	2-1/2"
225	225	4/0	350	4	2	2"	2"	2"	2-1/2"	2-1/2"	3"
250	250	250	350	4	2	2"	2"	2-1/2"	2-1/2"	2-1/2"	3"
300	300	350	500	4	2	2-1/2"	2-1/2"	3"	3"	3"	3-1/2"
350	350	500	4/0	3	1	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2"
400	400	500	250	3	1	3"	2 PARALLEL RUNS OF 2"	3"	2 PARALLEL RUNS OF 2-1/2"	3"	2 PARALLEL RUNS OF 3"
450	450	4/0	350	2	1/0	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"
500	500	250	350	2	1/0	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 2-1/2"
600	600	350	500	1	2/0	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3"	2 PARALLEL RUNS OF 3-1/2"
700	700	500	350	1/0	3/0	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2"	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"	2 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"
800	800	350	500	1/0	3/0	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 2-1/2"	3 PARALLEL RUNS OF 2-1/2"	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 3"	3 PARALLEL RUNS OF 3-1/2"
1000	1000	250	350	2/0	4/0	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"	4 PARALLEL RUNS OF 2-1/2"

NOTES:
1. ALL FEEDERS TO BE COPPER UNLESS SPECIFICALLY NOTED OTHERWISE. ONE-LINE DIAGRAM INDICATES FEEDER PERMITTED TO BE ALUMINUM CONDUCTORS BY "AL" DESIGNATION.

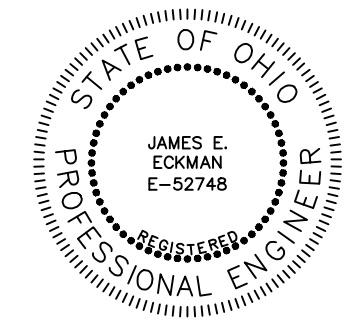
PANELBOARD SCHEDULE
PANEL: H3 LOCATION: 3RD FLOOR MOUNTING: FLUSH
SERVICE: 208/120 VOLTS, 3 PHASE, 4 WIRE, 60 HZ
MAINS 150 AMPS, X LUGS, CCT. BKR.
FED FROM HDP FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR.	CCT. NO.	CCT. NO.	CCT. BKR.	DESCRIPTION	LOAD
R-900	RECEPT. - HALLWAYS	20/1	1	2	20/1	RECEPT. - DATA CLOSET	R-360
R-720	RECEPT. - HALLWAYS	20/1	3	4	20/1	RECEPT. - DATA CLOSET	R-360
R-900	RECEPT. - HALLWAYS	20/1	5	6	70/2	HP-4	H-10000
L-919	LIGHTING - NORTH CORRIDOR, FITNESS	20/1	7	8			
L-449	LIGHTING - SOUTH CORRIDOR	20/1	9	10	20/1	RECEPT. - FITNESS	R-360
H-4800	CABINET HEATER - TRASH	30/2	11	12	20/1	RECEPT. - FITNESS TREADMILL	R-180
			13	14	20/1	RECEPT. - FITNESS	R-360
L-328	TOWER LIGHTING	20/1	15	16	20/1	RECEPT. - FITNESS	R-540
	SPARE	20/1	17	18	20/1	EF-5 - WEST TRASH ROOM	H-12
	SPARE	20/1	19	20	20/1	EF-5 - EAST TRASH ROOM	H-12
	SPARE	20/1	21	22	20/1	RECEPT. - FITNESS TREADMILL	R-180
	SPARE	20/1	23	24	20/1	RECEPT. - FITNESS TREADMILL	R-180
	SPARE	20/1	25	26	20/1	SPARE	
	SPARE	20/1	27	28	20/1	SPARE	
	SPARE	20/1	29	30	20/1	SPARE	
	SPARE	20/1	31	32	20/1	SPARE	
	SPARE	20/1	33	34	20/1	SPARE	
	SPARE	20/1	35	36	20/1	SPARE	
	SPARE	20/1	37	38	20/1	SPARE	
	SPARE	20/1	39	40	20/1	SPARE	
	SPARE	20/1	41	42	20/1	SPARE	

REMARKS:
1. ALL NEW CIRCUIT BREAKERS TO BE 22,000 AIC FOR 208 OR 240V SYSTEMS UNLESS OTHERWISE NOTED.

LOAD LEGEND:
R - RECEPTACLES K - KITCHEN
L - LIGHTING M - MISCELLANEOUS
P - PLUMBING F - FUTURE
H - HVAC

Drawing = M:\2022\22123\Design\Elec\22123_E601_602_SCHEDULES_ELEC.dwg Tab = E602 Username = ekuzman Date = Jul 20, 2023 1:09pm



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

REVISIONS	
1	BULLETIN 01 - 07/17/2023

DETAILS - ELECTRICAL
GERMANTOWN CROSSING
DAYTON OHIO

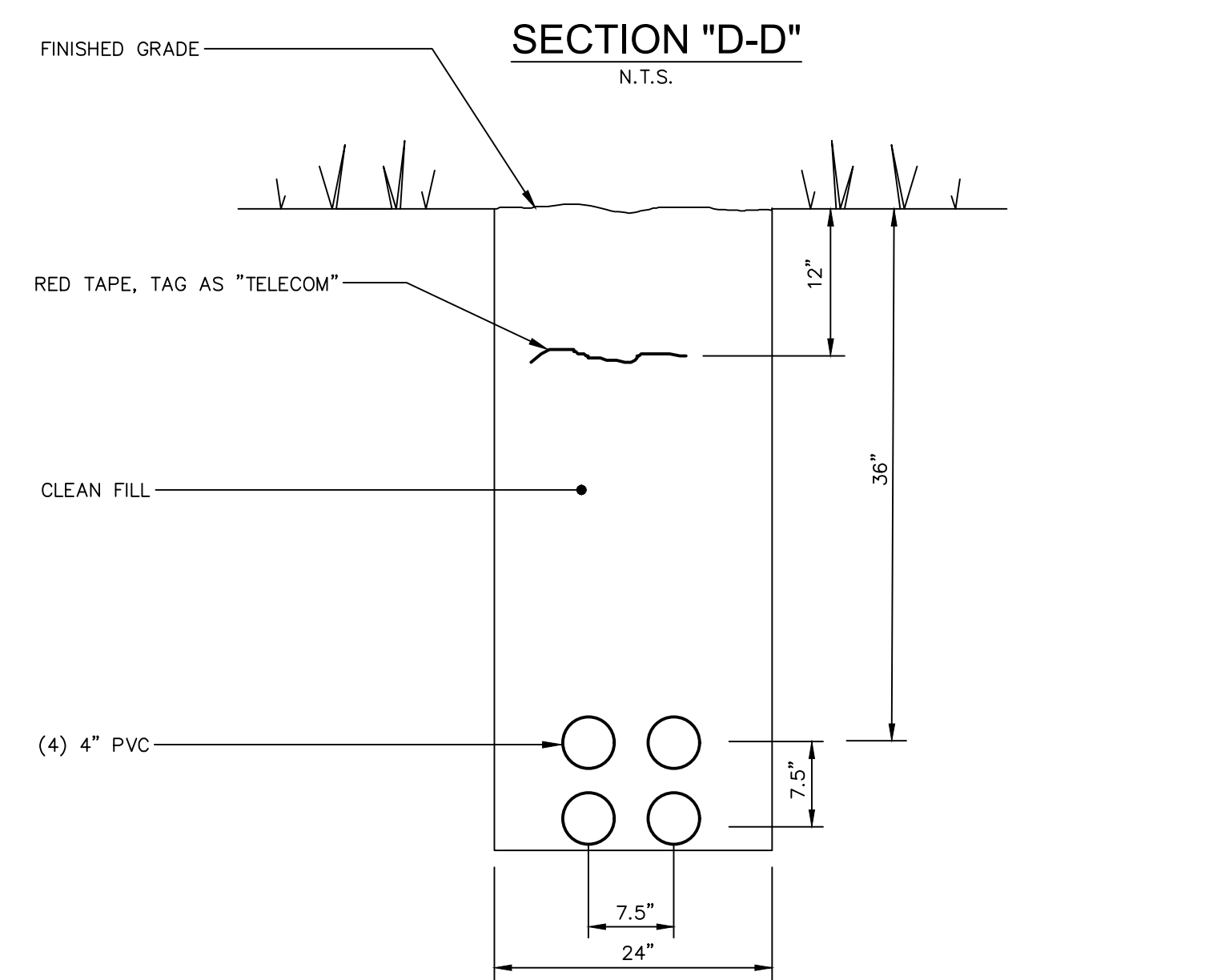
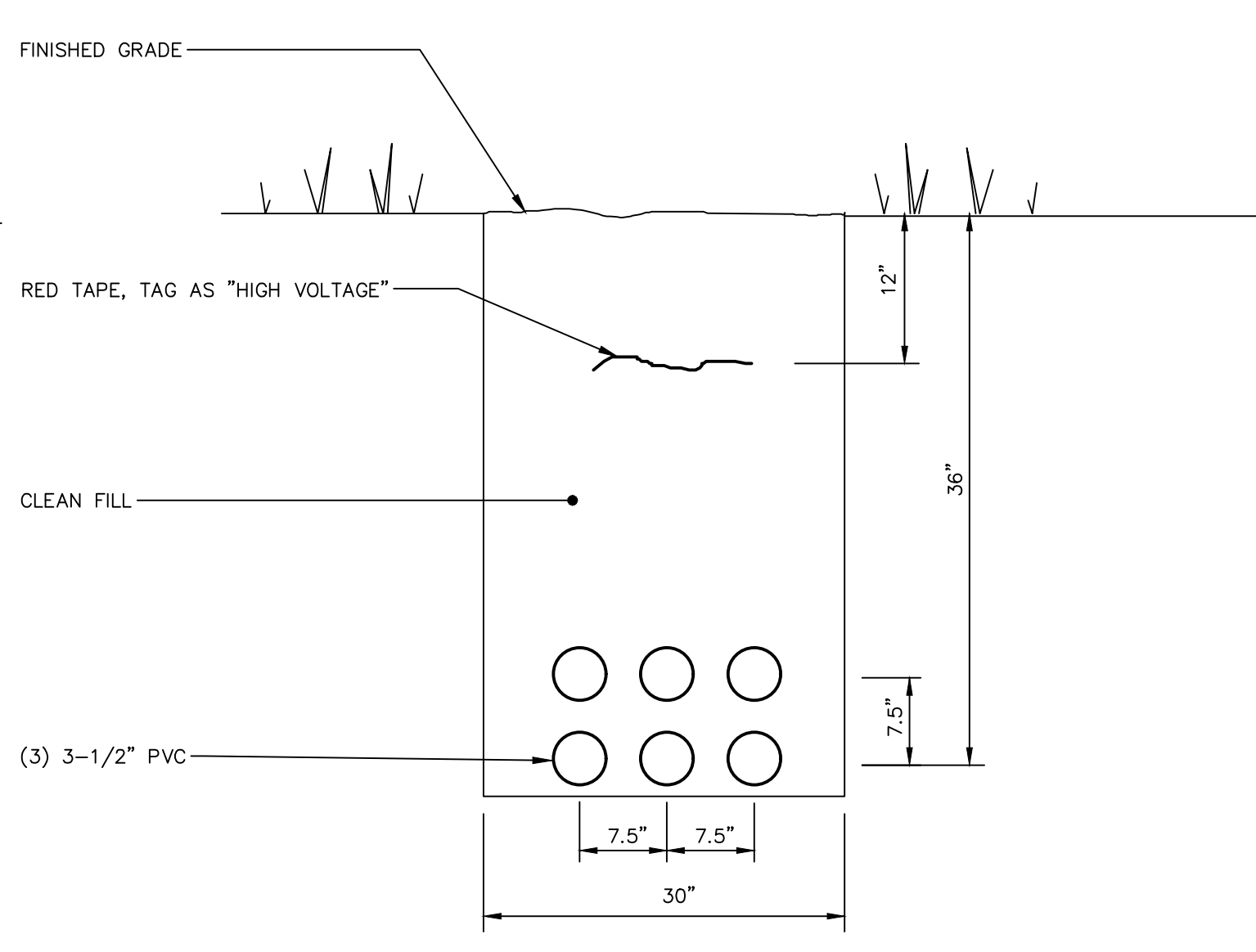
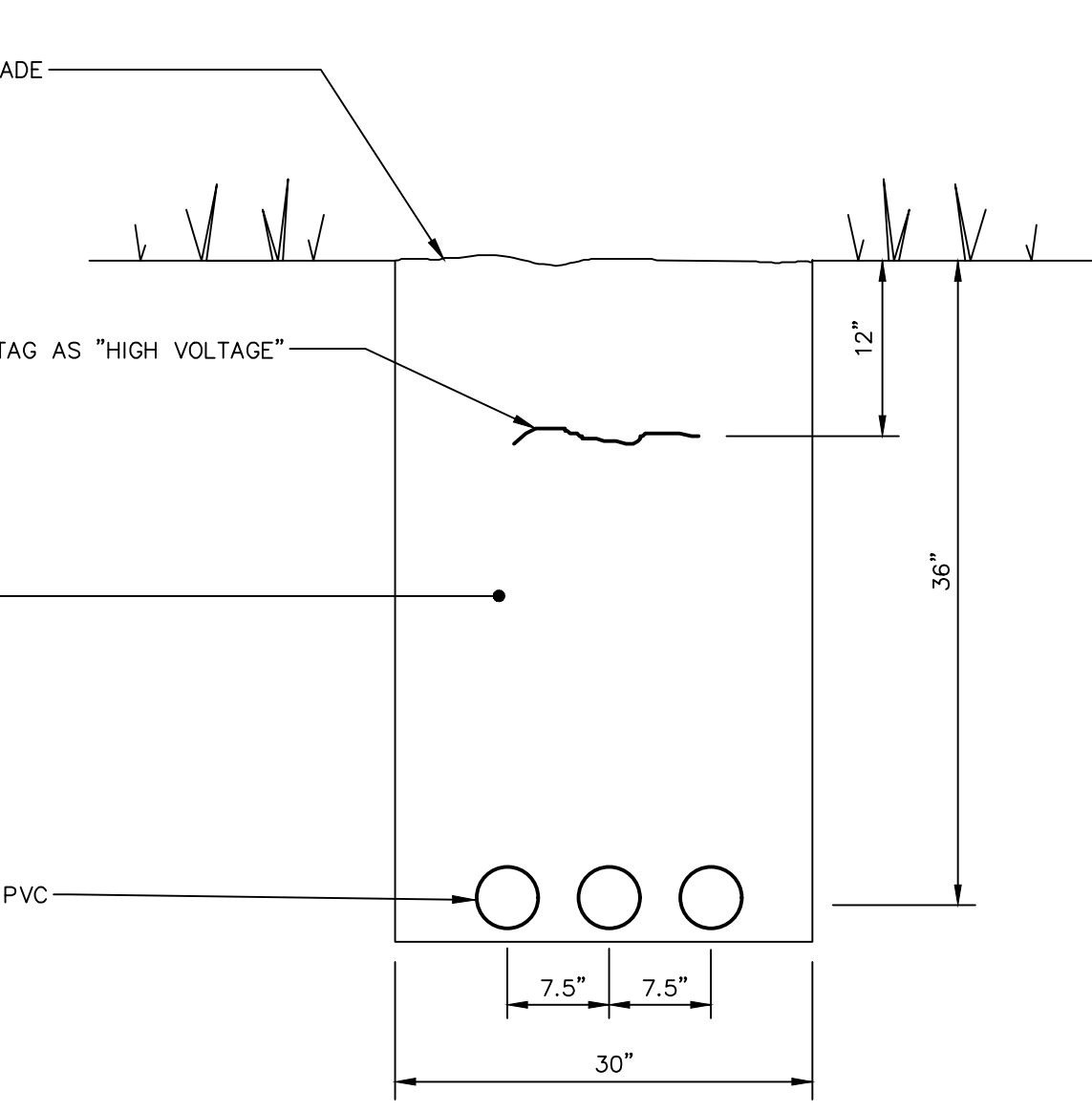
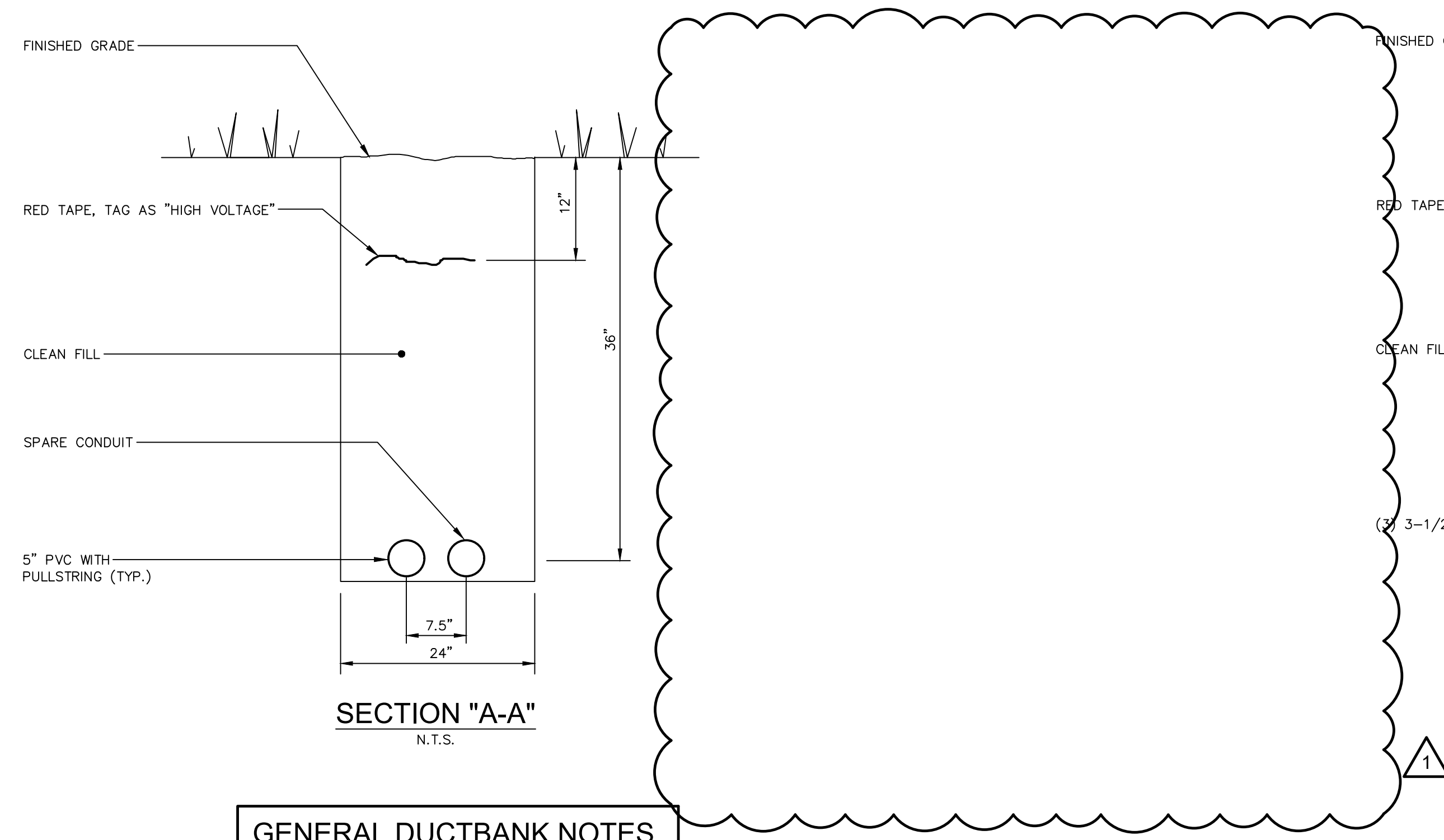


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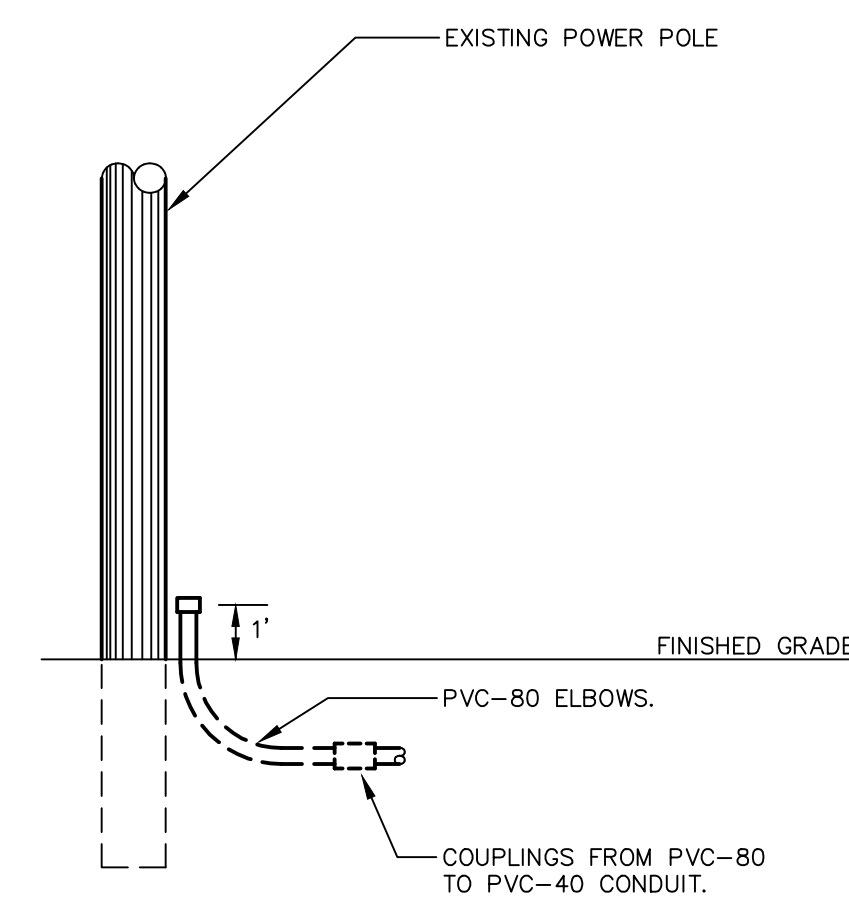
03/31/2023
 DATE
 82A21
 PROJECT NUMBER

E701
 DRAWING NUMBER

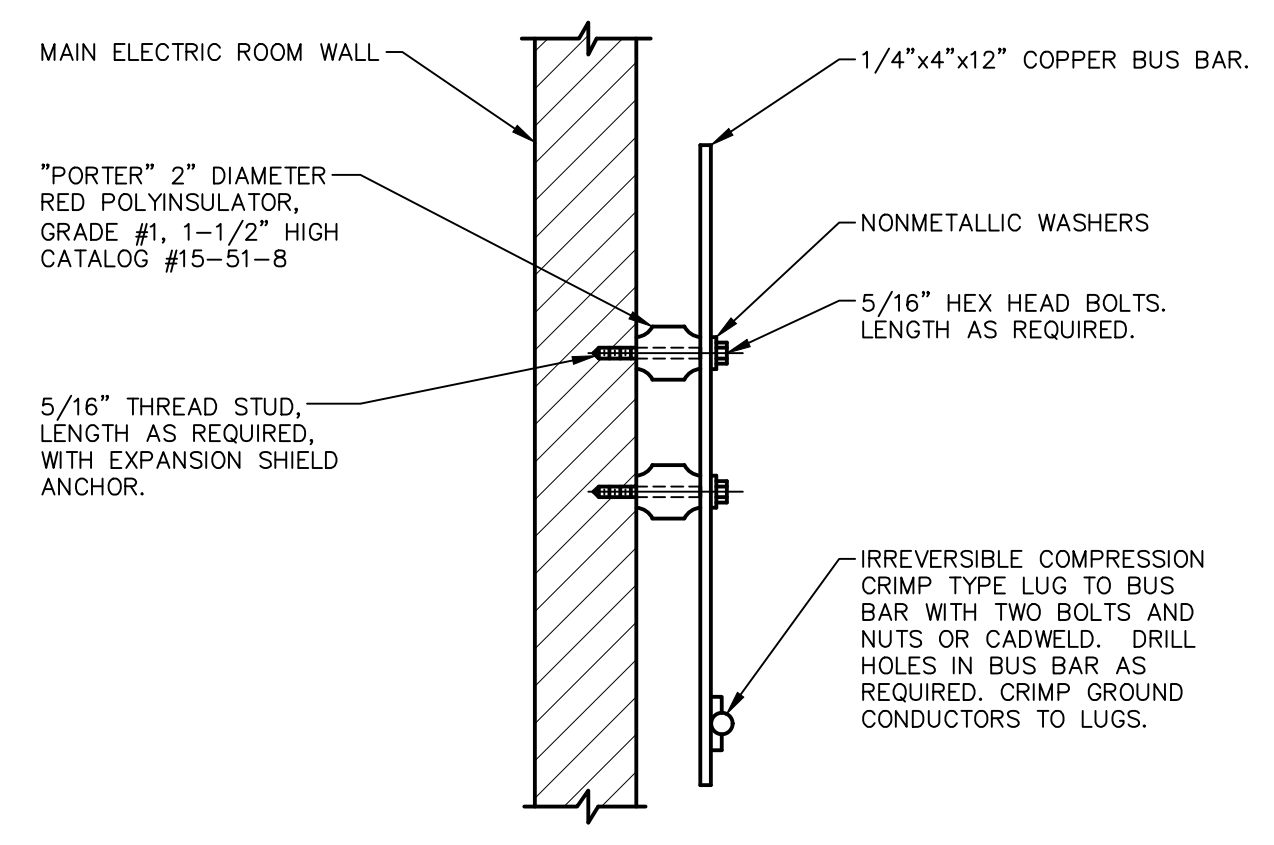


GENERAL DUCTBANK NOTES

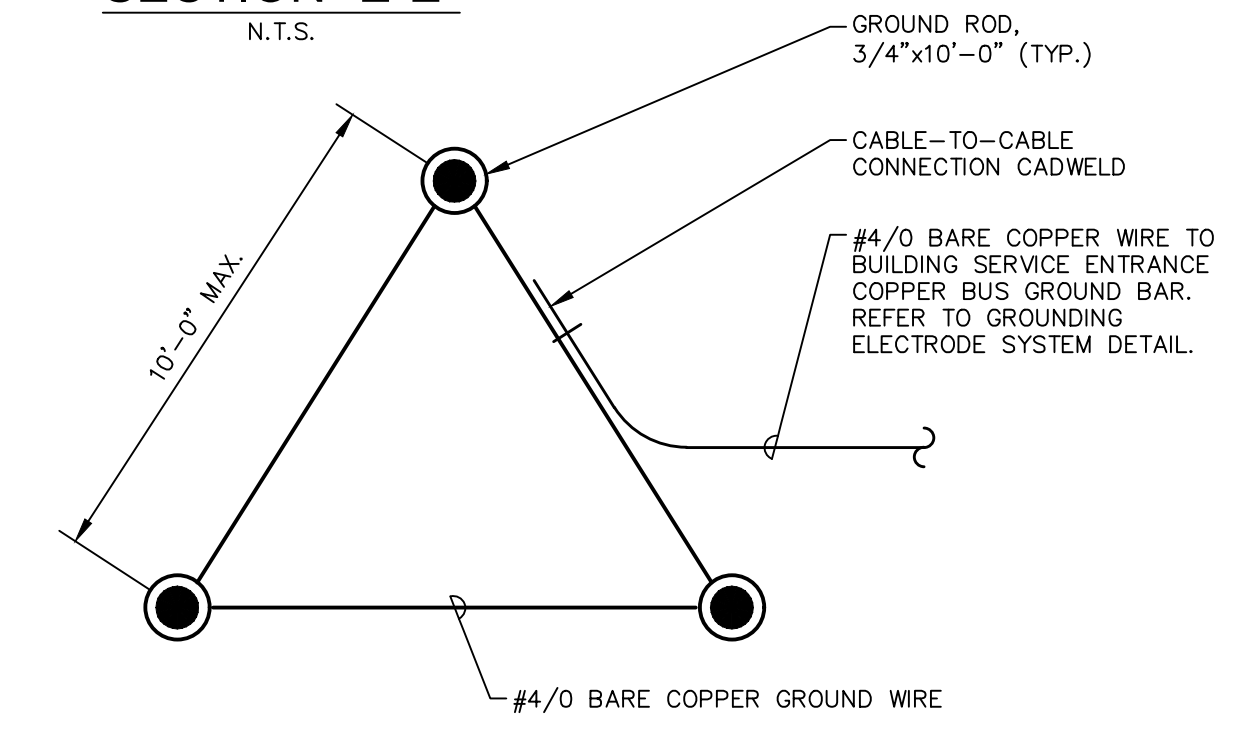
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS ON DUCT BANK CONSTRUCTION.
- NONMETALLIC SPACERS OF REQUIRED SIZE SHALL BE PROVIDED TO SUPPORT PVC CONDUITS. SPACERS SHALL BE PROVIDED AT 8" INTERVALS MINIMUM.



POWER POLE DETAIL
N.T.S.

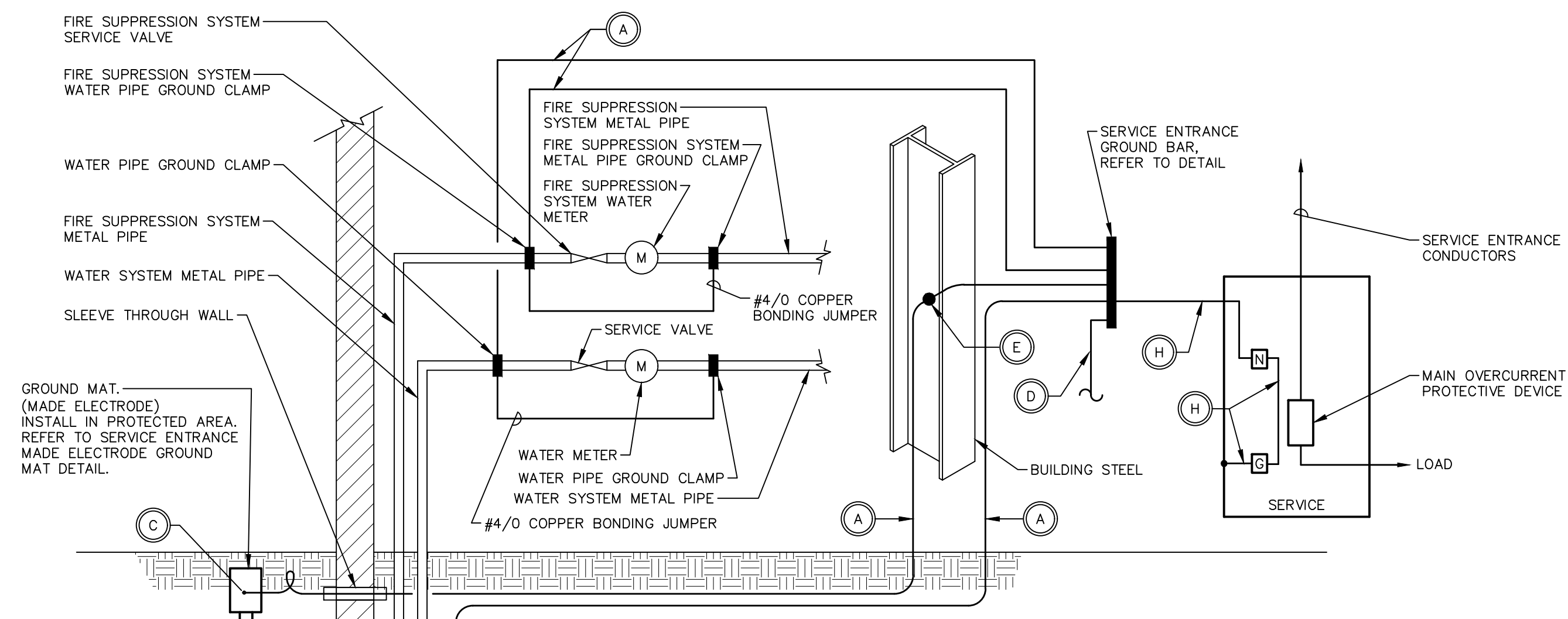


SERVICE ENTRANCE GROUND BAR DETAIL
N.T.S.



NOTE:
 BURY TOP OF GROUND ROD AT 6" BELOW FINISHED GRADE.

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



SERVICE ENTRANCE ELECTRODE SYSTEM DETAIL
N.T.S.

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" OF CONCRETE COVER.
- EXOTHERMIC WELDED CONNECTION TO FOOTER REBAR NEAR BASE OF FOOTER.
- MAIN BONDING JUMPER. SIZE PER NEC 250.28(D).

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

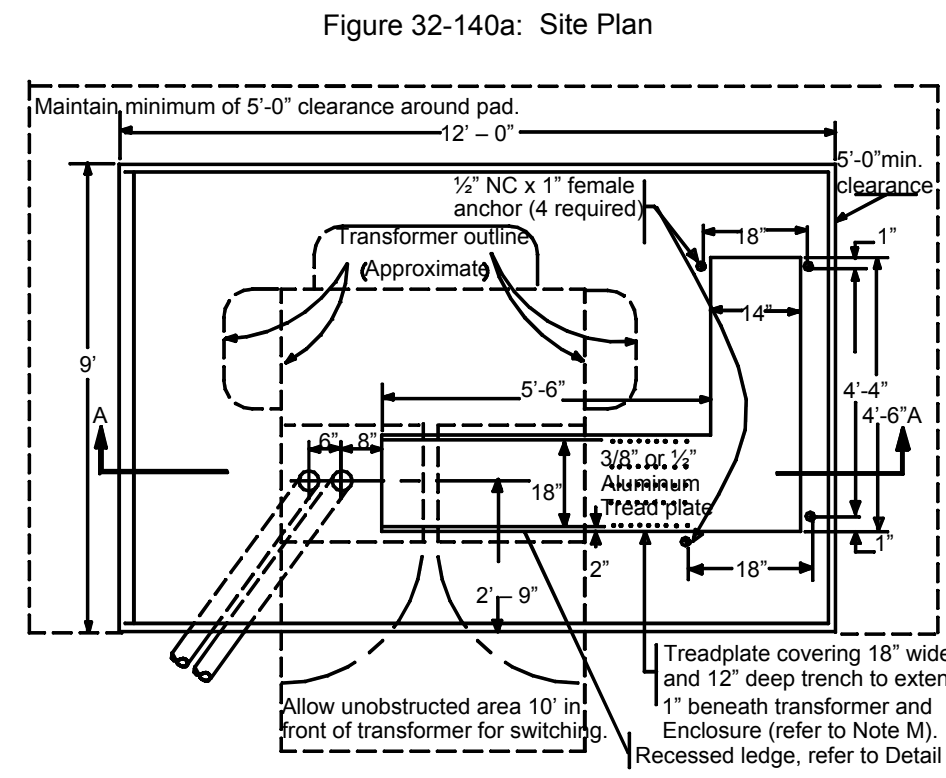


Figure 32-140b: Section "A - A"

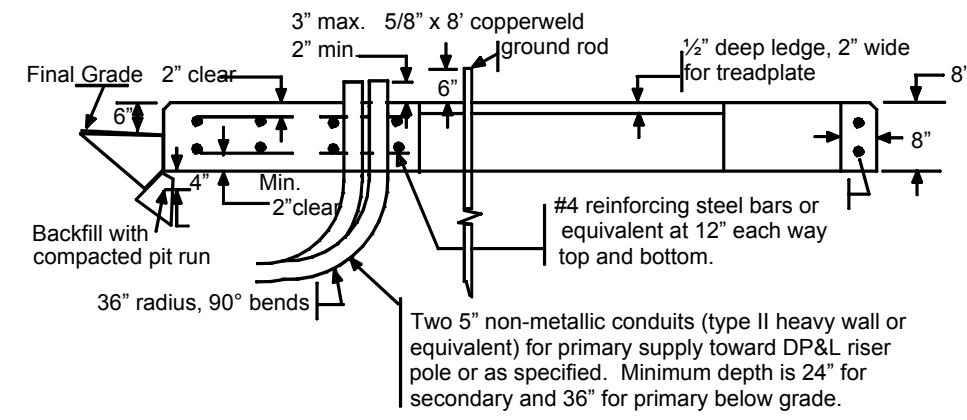
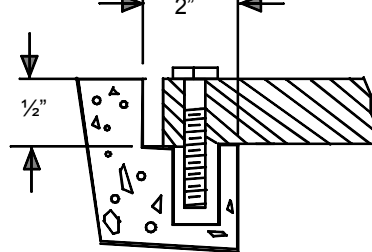


Figure 32-140c: Detail "A"



- 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.

- 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.

TRANSFORMER PAD WITH TRANSITION CABINET DETAIL

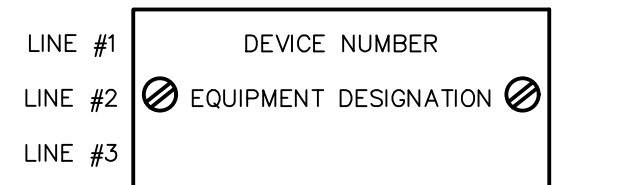
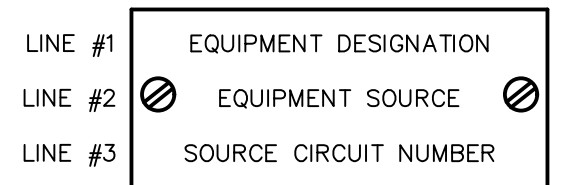
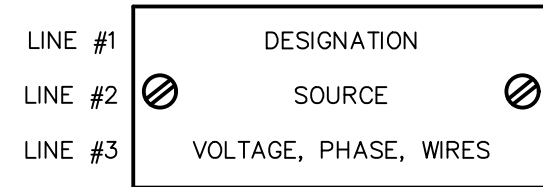
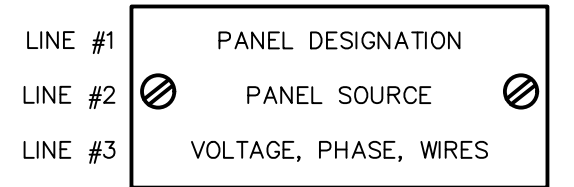
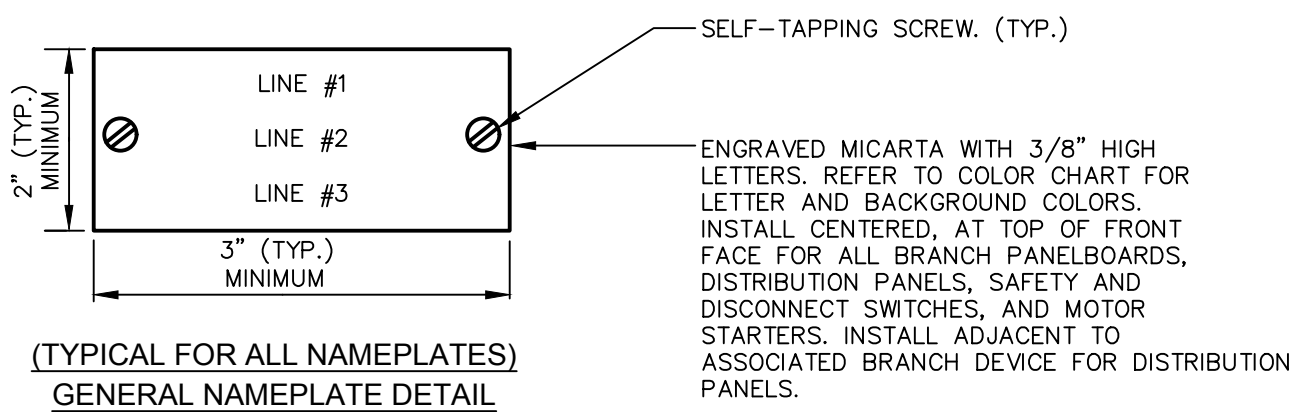
N.T.S.

STANDARD COLORS:

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

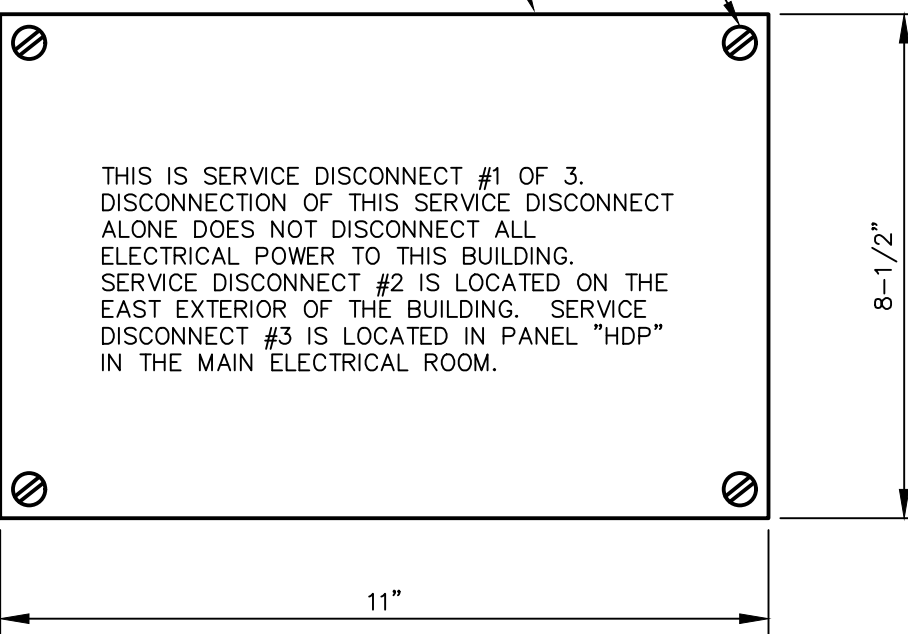
A. 208Y/120 VOLTS - BLACK BACKGROUND, WHITE LETTERS

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



IDENTIFICATION TAGGING DETAILS

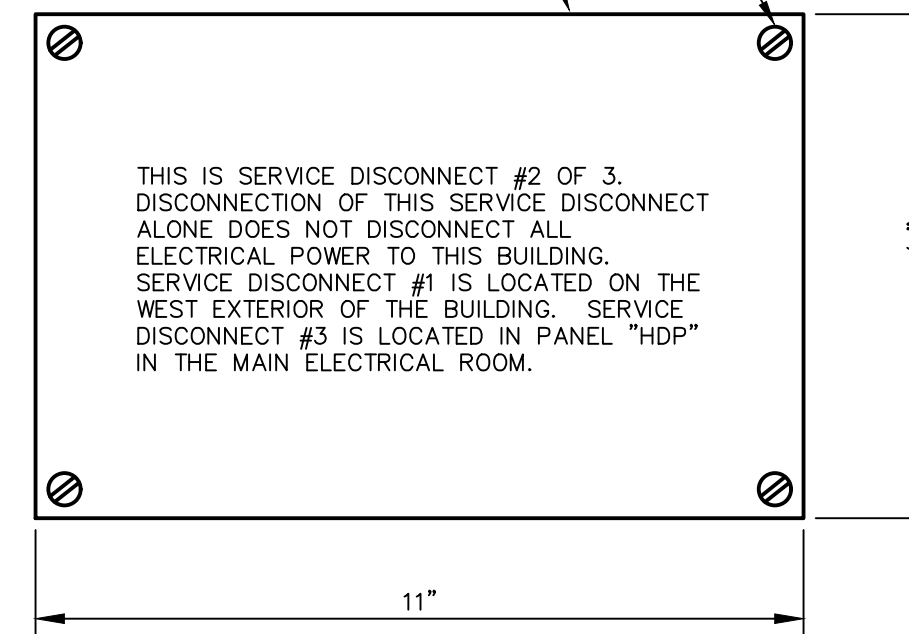
N.T.S.



SERVICE ENTRANCE NAMEPLATE

MAIN #1 NAMEPLATE DETAIL

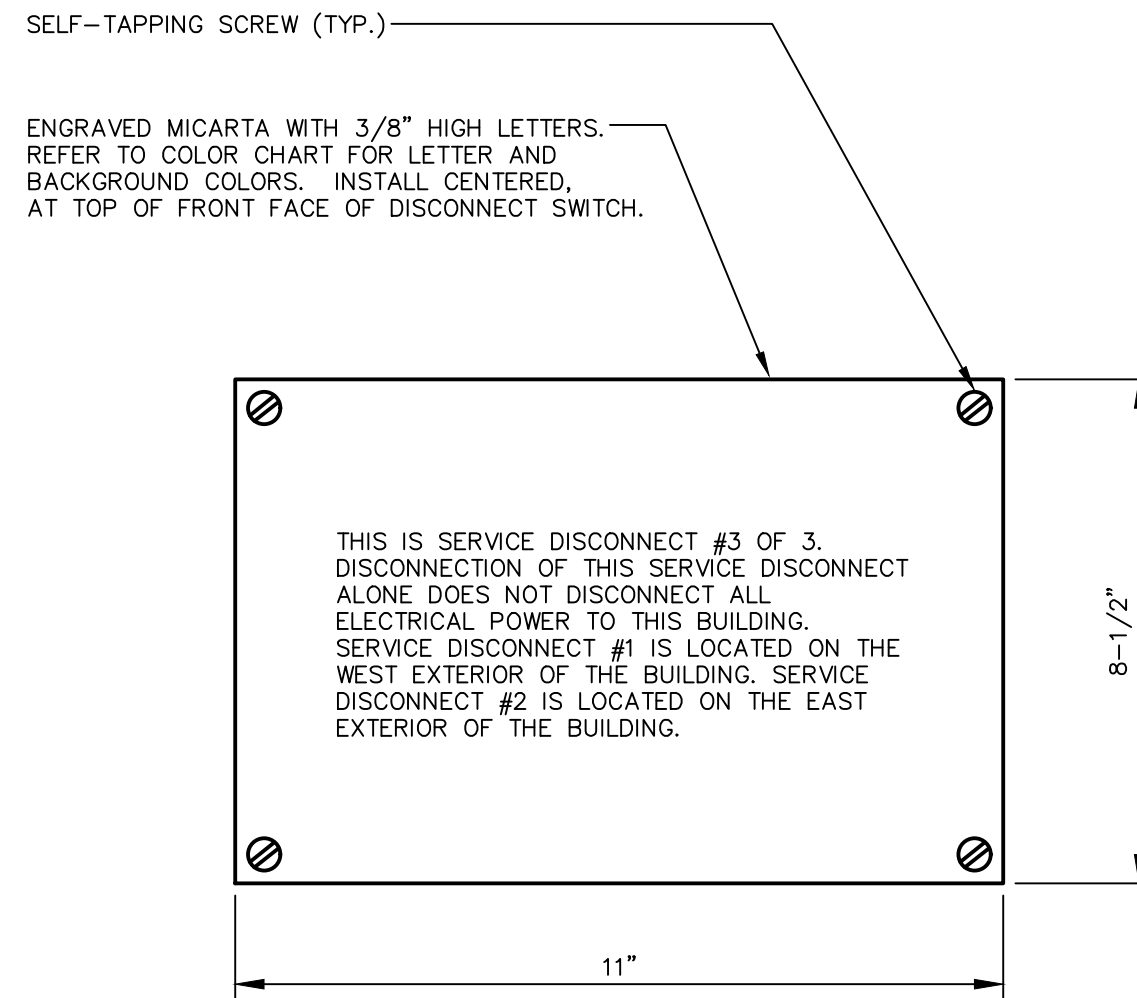
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SERVICE ENTRANCE NAMEPLATE

MAIN #2 NAMEPLATE DETAIL

N.T.S.



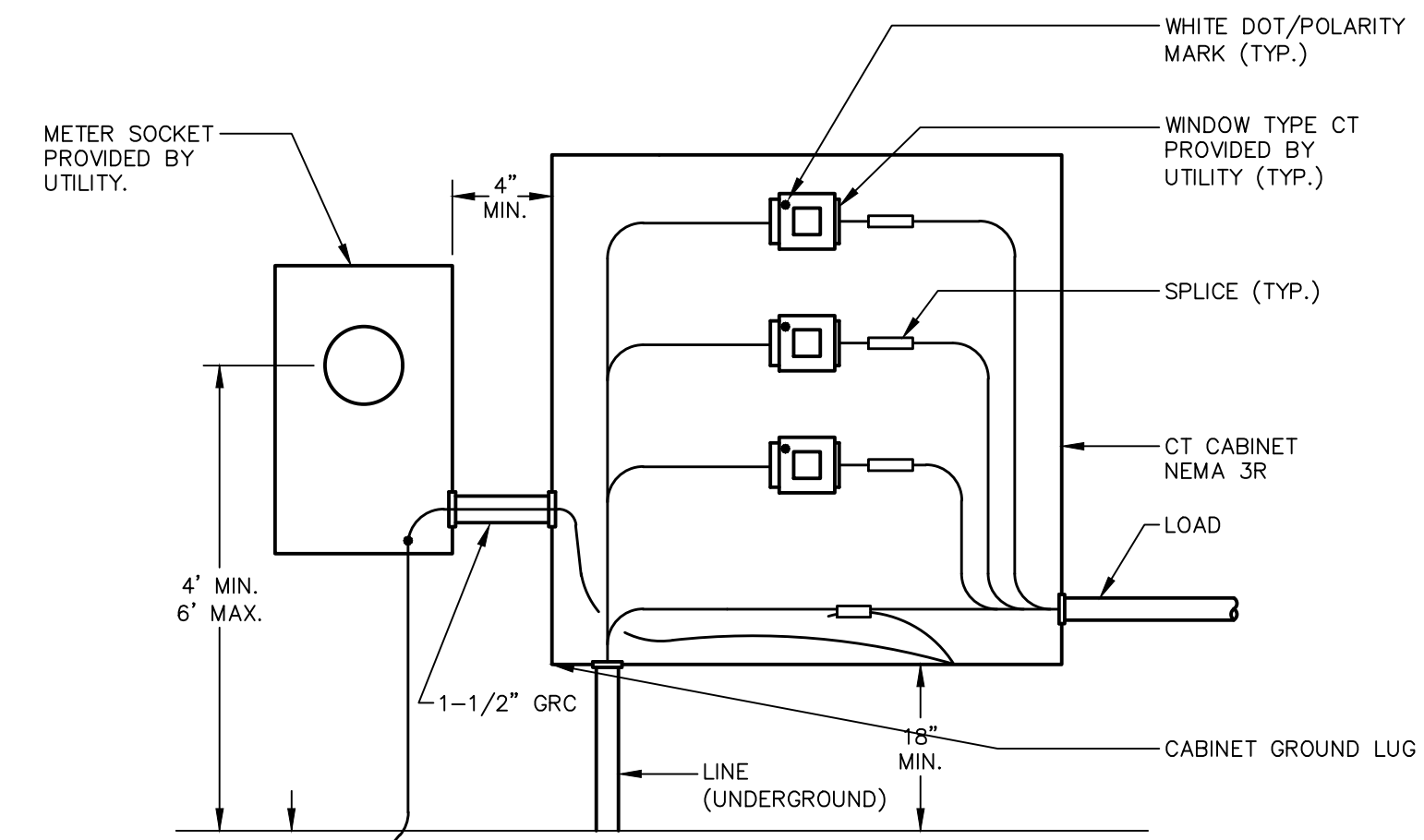
SERVICE ENTRANCE NAMEPLATE

HDP NAMEPLATE DETAIL

N.T.S.

NOTES

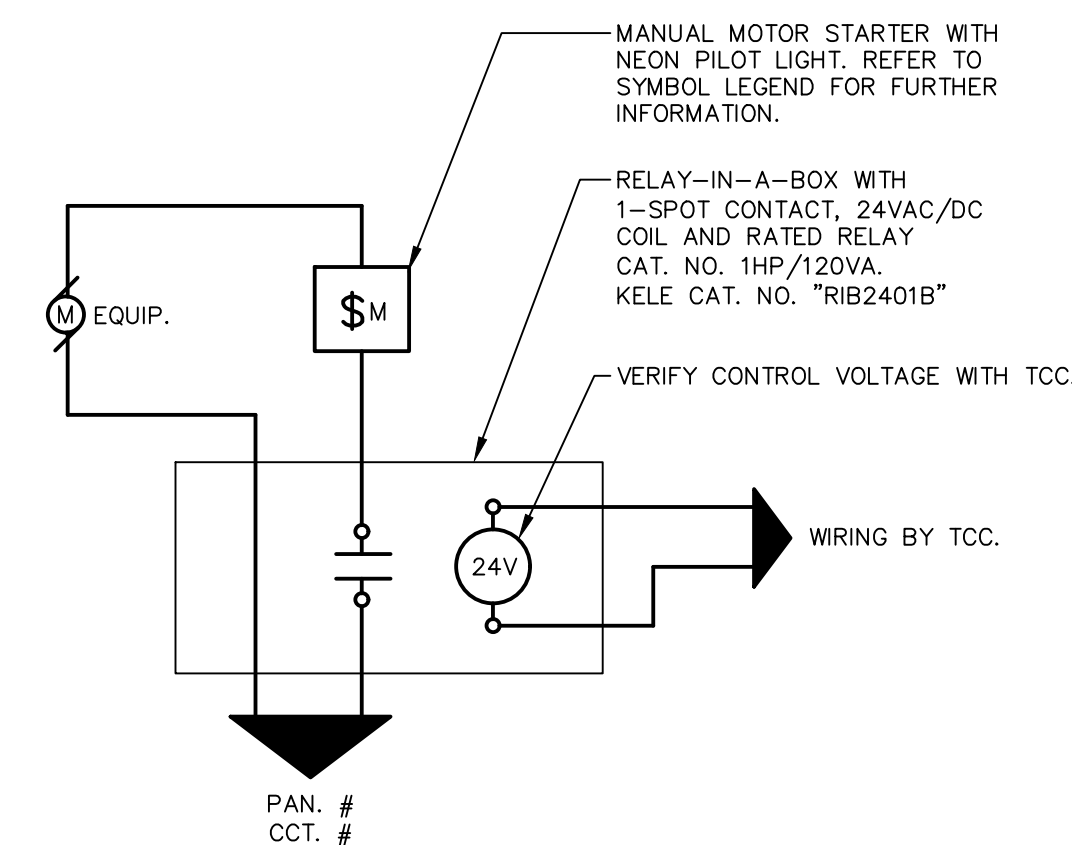
1. CT CABINET FURNISHED AND INSTALLED BY EC SHALL BE OF SUBSTANTIAL STRENGTH WITH CORROSION PROTECTION, SUCH AS PAINTED GALVANIZED STEEL NEMA 3R, ALUMINUM OR FIBER REINFORCED POLYESTER ENCLOSURES MUST BE USED IN CORROSIVE AREAS. IT SHALL HAVE PROVISIONS FOR INSTALLING A UTILITY PADLOCK AND SEAL. THE 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 GROUNDED. BONDING TO THE SYSTEM NEUTRAL IS REQUIRED IF THE SYSTEM NEUTRAL IS GROUNDED. 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.



MINIMUM CABINET SIZE (VERIFY WITH UTILITY)	
25" x 25" x 12"	FOR SINGLE PHASE
30" x 30" x 12"	SERVICES UP TO 400 AMPS
36" x 36" x 12"	SERVICES 401 TO 800 AMPS
48" x 48" x 12"	SERVICES 801 TO 1600 AMPS
60" x 60" x 13"	SERVICES 1601 TO 2400 AMPS

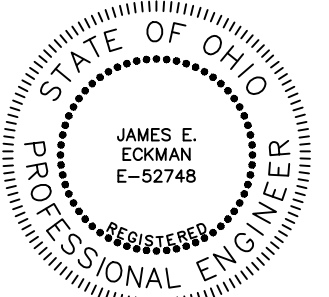
(WINDOW TYPE CT'S) CURRENT TRANSFORMER CABINET

N.T.S.



RELAY-IN-A-BOX DETAIL

N.T.S.



Signature: *J. E. Eckman* Date: 3/31/23

REVISIONS

NO.	DESCRIPTION

DETAILS - ELECTRICAL
GERMANTOWN CROSSING
DAYTON OHIO

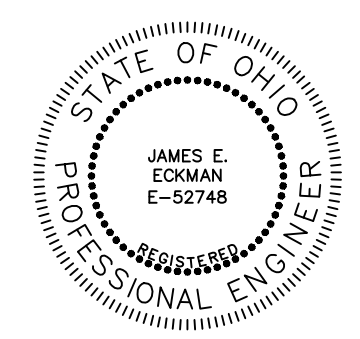


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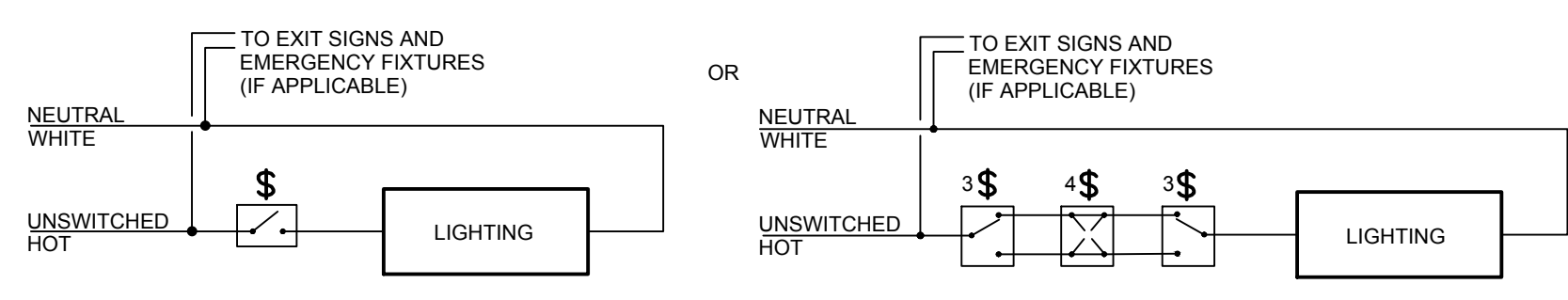
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E702
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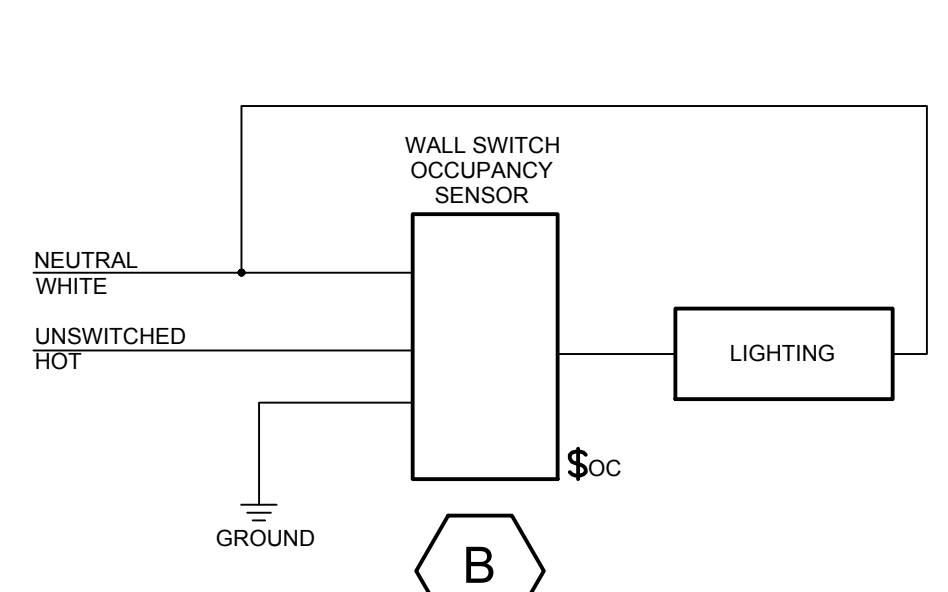
J. E. Eckman 3/31/23
 SIGNATURE DATE

REVISIONS



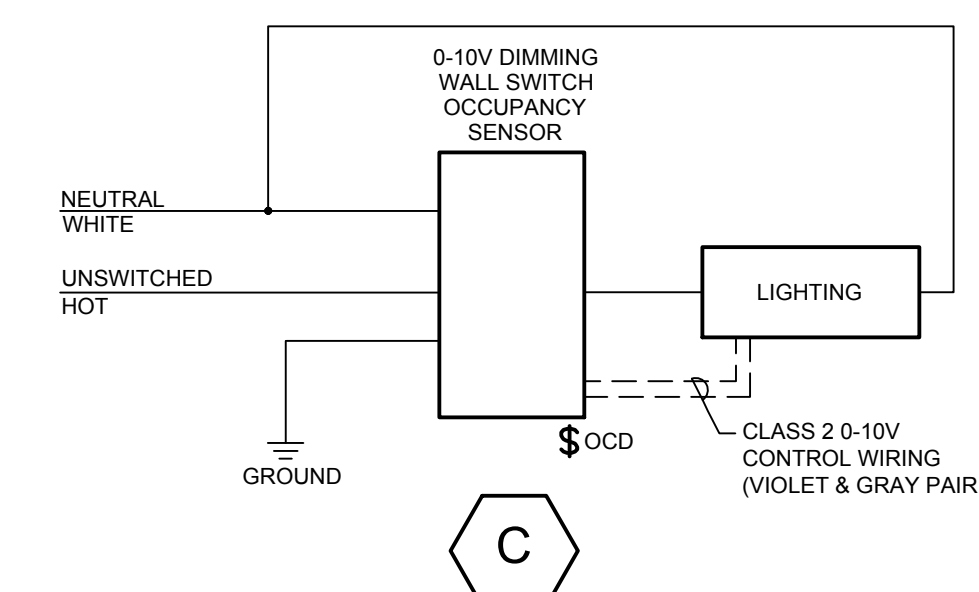
NOTES
 1. REFER TO FLOOR PLANS FOR EXACT QUANTITY AND TYPES OF SWITCHES REQUIRED.

TYPICAL LINE-VOLTAGE SWITCHING
 N.T.S.



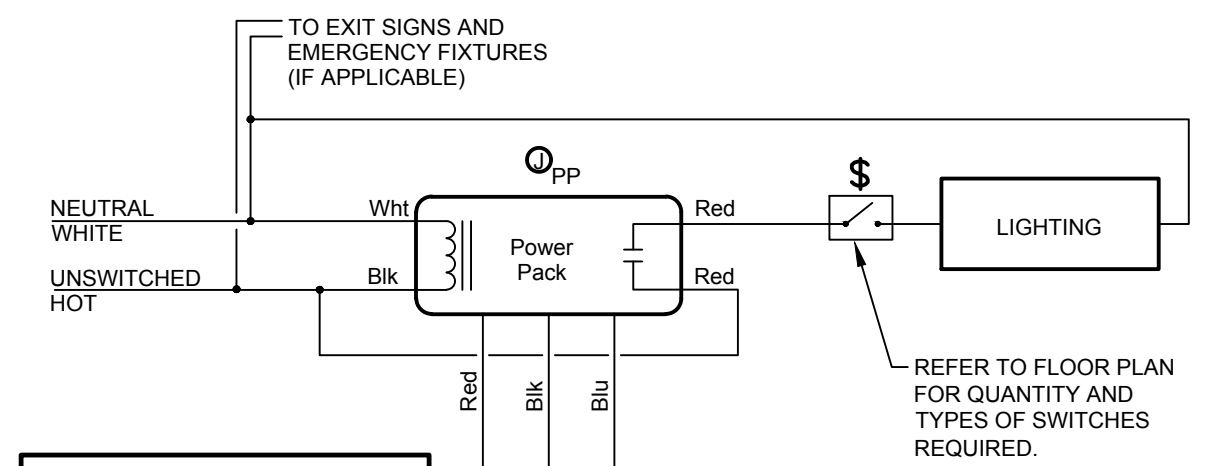
B

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.

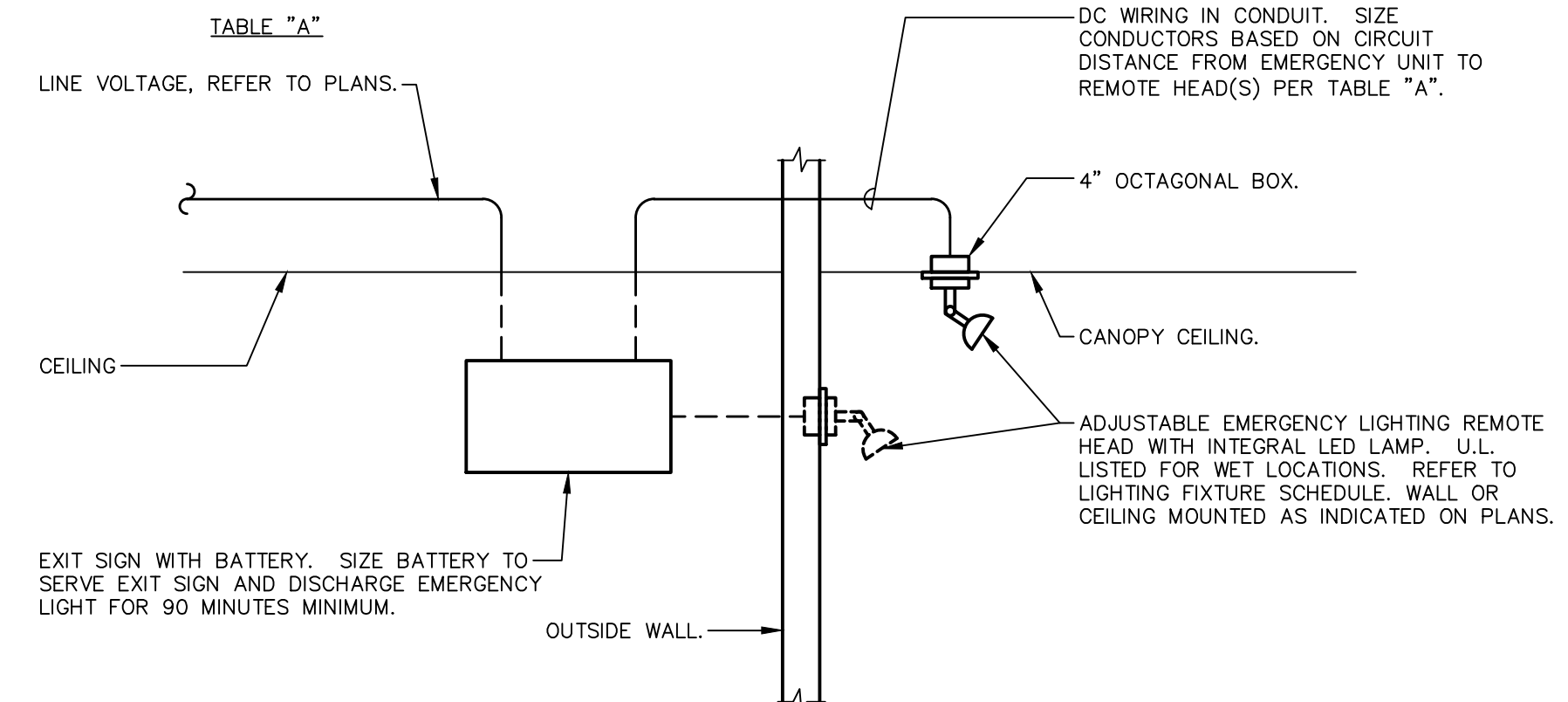
D

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"

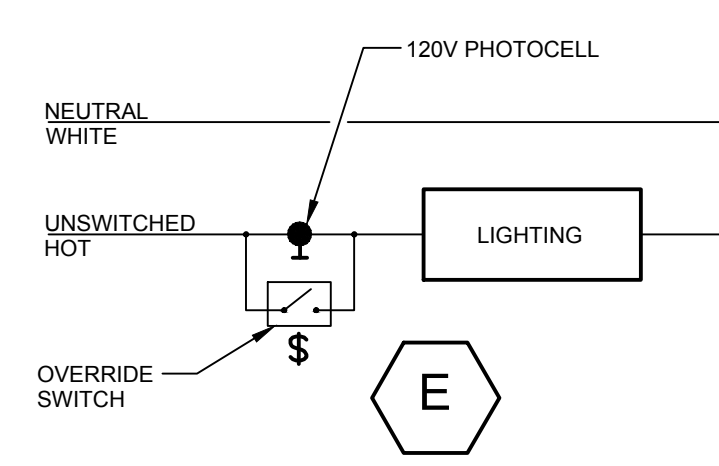
LINE VOLTAGE, REFER TO PLANS.



EXIT SIGN AND EXIT DISCHARGE EMERGENCY LIGHTING COMBO DETAIL
 N.T.S.

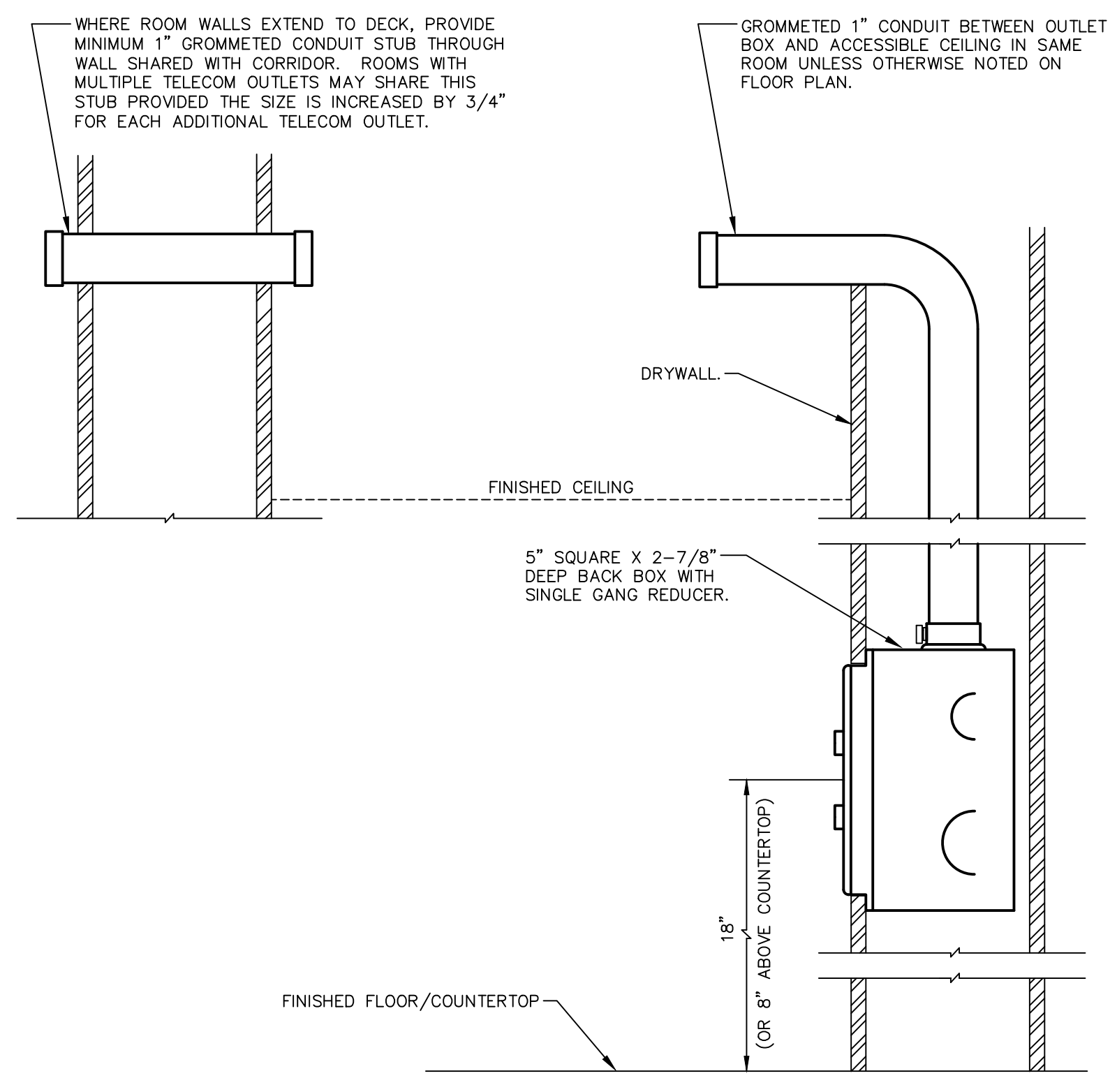
OCCUPANCY SENSOR CONFIGURATION			
ROOM DESCRIPTION	AUTOMATIC ON	MANUAL ON	MANUAL ON/AUTOMATIC TO 50%
PRIVATE OFFICE			X
RESTROOM	X		
STORAGE	X		
CONFERENCE/MEETING		X	

NOTES:
 1. SENSOR MUST SHUT OFF LIGHTS WITHIN 30 MINUTES OF UNOCCUPIED USE

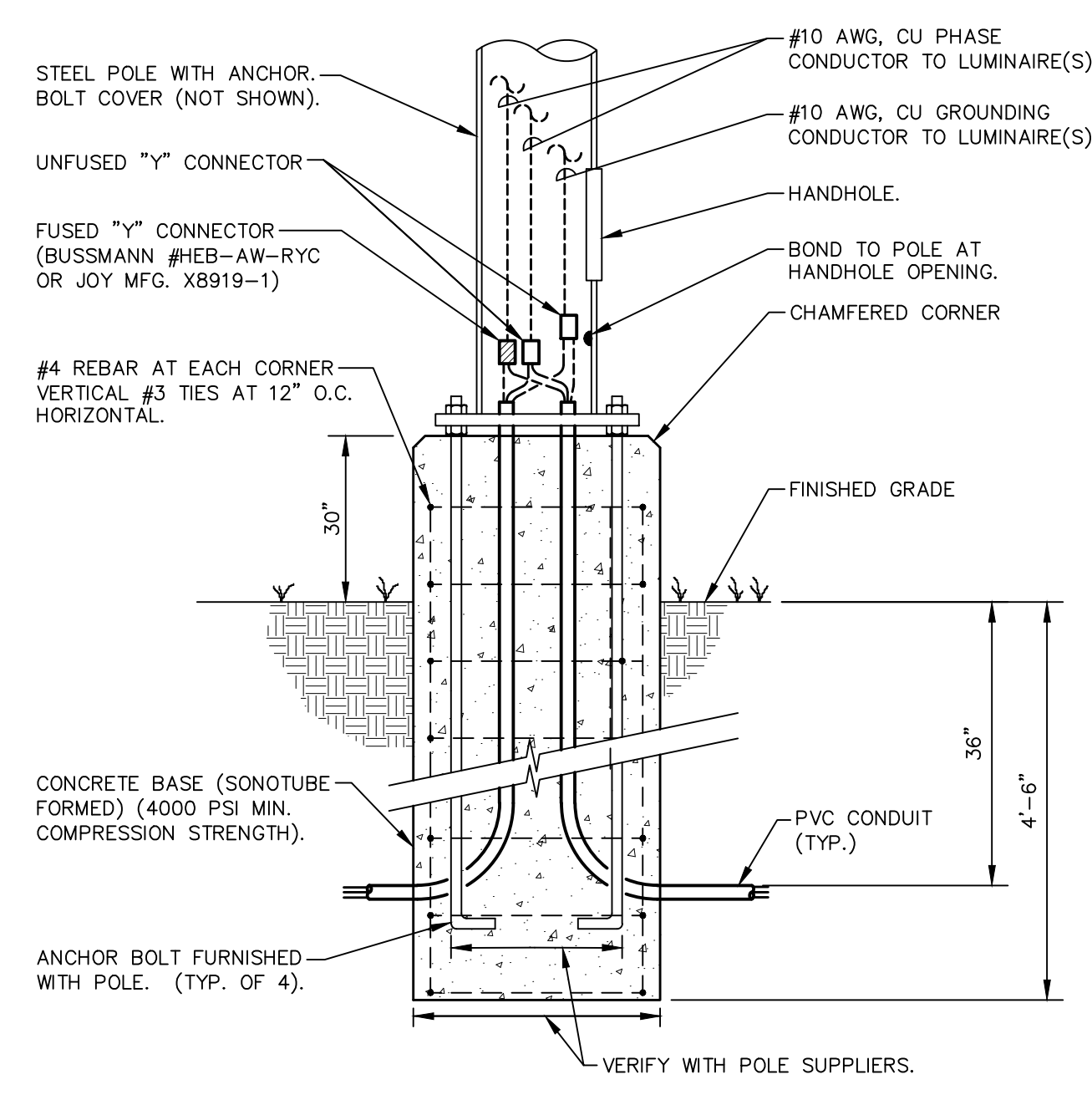


E

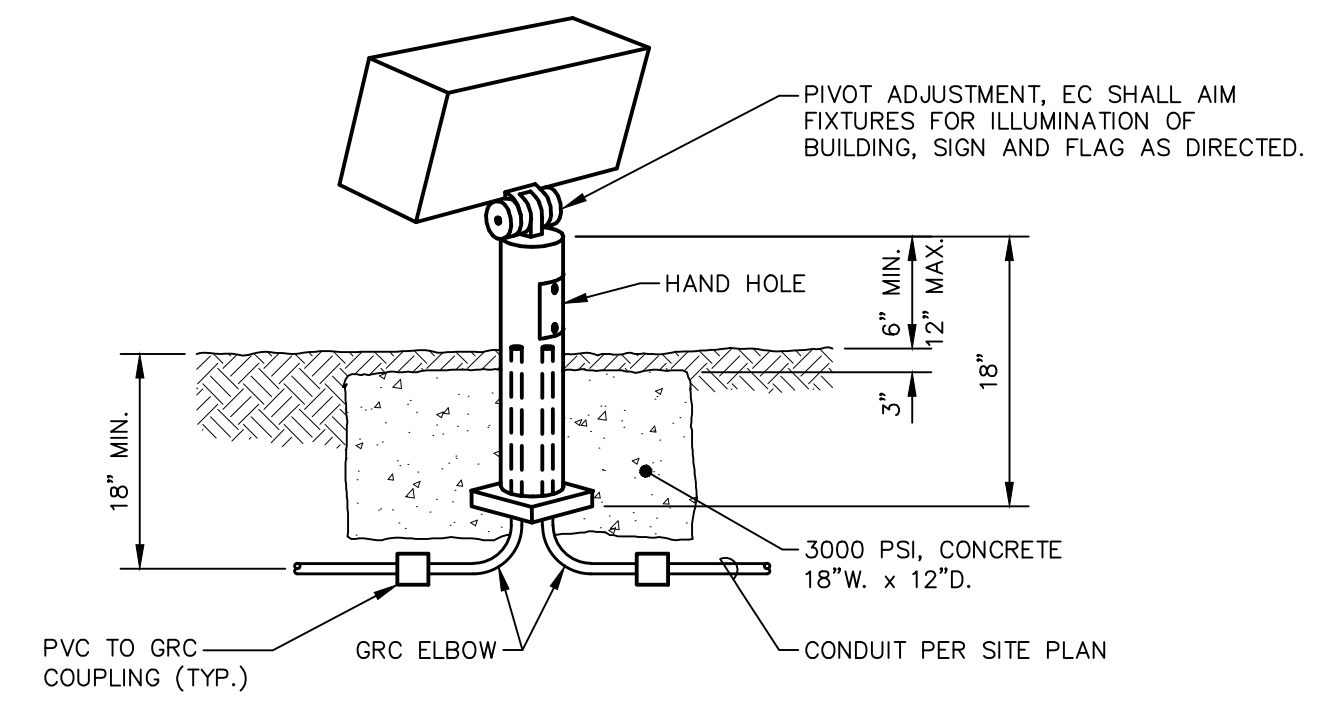
TYPICAL PHOTOCELL CONTROL
 N.T.S.



TYPICAL FLUSH TELECOM OUTLET ROUGH-IN
 N.T.S.



POLE BASE DETAIL
 N.T.S.



BASE DETAIL FOR FLOOR LIGHTING FIXTURE
 N.T.S.

DETAILS - ELECTRICAL

GERMANTOWN CROSSING
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