



# ARCHITECTS

430 Grant Street  
Akron, Ohio 44311  
330.867.1093  
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Date: September 25, 2023

BULLETIN NO. 02

Project Name: Germantown Crossing

TC Project No.: 82A21

To: All Contractors

Please provide a proposal for changing the Contract Documents as noted herein. The proposal is due to the Associate within 10 days of issue. A limited extension of time may be granted in writing, for submitting a proposal at a specific future date and time at the sole discretion of the Associate. The estimated effect of the bulletin on current contract completion date is zero (0) days. If the impact to your work is different than zero (0) days, indicate the number of days in your proposal.

Contractor's proposal shall include:

1. Bulletin number
2. Change in contract amount
3. Change in contract time

Contractor's proposal to include itemized pricing including, but not limited to materials, labor, overhead and profit breakdowns as required in the Change Order Pricing Guidelines in the Contract Documents. Lump sum labor or material prices will not be accepted. If Subcontractor's or supplier's prices are included in the prime Contractor's proposal, provide a copy of their quotation.

If no response to a bulletin is received by the Associate by the proposal due date indicated above, the non-response will be determined that the Contract is not affected by the change, and any rights for increased compensation or time extension shall be deemed to have been waived.

For the Contractor's convenience, this Bulletin includes a signature space. If no change is affected by this Bulletin, signed and indicating such and returning this document to the Associate will serve as official notification. If a change is affected, the Associate must receive the contractor's detailed proposal within 10 days.

Please note that this is not a Change Order or authorization to proceed with the proposed changes.

Description of Proposed Change:

State the change in contract sum to reflect the following changes:

Architectural

A002	Revised first floor square footage and Means of Egress chart.
A003	Revised sheet to show Fire Barrier locations.
A106A	Added soffits for ductwork.
A203	Revised Fire Rating Corridor.
A301	Added Trash Chute Section.
A302	Revised Stairs to show area of rescue assistance.
A303	Revised Stairs to show area of rescue assistance.
A401	Revised window to single hung windows.
A402	Revised window to single hung windows.
A601	Added partition Type 4A.
A603	Revised window to single hung windows.

Civil

C001	Building and majority of the site pavement has been removed by others and (2) two existing 2" water services are to be abandoned.
C200	Updated contact information for city.
C300	Revised sidewalk ramps from porch to public sidewalk and revised site layout near unnamed alley.
C301	Revised spot grade elevations.
C400	Revised grading and storm sewer system along Germantown Street for ramps and revised grading for new layout by unnamed alley.

Electrical

E001	Revised symbol legend to add 120V battery-backup smoke alarms, CO alarms, and sounder bases.
E101	Revised all Type D1 fixtures to be Type S2 and removed "Fire-Rated Ceilings Note".
E102	Revised all Type D1 fixtures to be Type S2.
E103	Revised all Type D1 fixtures to be Type S2.
E301	Added location for area of rescue annunciator station and signage.
E302	Added locations for area of rescue call stations and signage.
E303	Added locations for area of rescue call stations and signage.
E401	Revised the addressable fire alarm smoke and CO detectors to be 120V, battery-operated with new circuit to apartment panel.
E402	Revised the addressable fire alarm smoke and CO detectors to be 120V, battery-operated with new circuit to apartment panel.
E403	Revised the addressable fire alarm smoke and CO detectors to be 120V, battery-operated with new circuit to apartment panel.
E601	Removed Type D1 from the Lighting Fixture Schedule and Panel H1A. Added circuit for area of rescue system.
E704	Added "Area of Rescue Wiring Diagram".
ES01	Revised pole layout for parking lot revisions.

Mechanical

H302 Added sheet with ventilation air schedules.

Landscape

L100 No perimeter fencing is intended at this time. Vegetation has been added.

Plumbing

P302 Removed 1" drain line downstream of backflow preventer in water service entrance detail. 4" inlet was also relocated to have equal distances between backflow preventers.

Structural

S101 Coordination of stair tower post locations.

S102 Coordination of stair tower post locations.

S304 Coordination of stair tower post locations.

- Attachments:
- A002, Revision 2, Bulletin 02, 09/19/2023
  - A003, Revision 2, Bulletin 02, 09/19/2023
  - A106A, Revision 2, Bulletin 02, 09/19/2023
  - A203, Revision 2, Bulletin 02, 09/19/2023
  - A301, Revision 2, Bulletin 02, 09/19/2023
  - A302, Revision 2, Bulletin 02, 09/19/2023
  - A303, Revision 2, Bulletin 02, 09/19/2023
  - A401, Revision 2, Bulletin 02, 09/19/2023
  - A402, Revision 2, Bulletin 02, 09/19/2023
  - A601, Revision 2, Bulletin 02, 09/19/2023
  - A603, Revision 2, Bulletin 02, 09/19/2023
  - C001, Revision 2, Bulletin 02, 09/19/2023
  - C200, Revision 2, Bulletin 02, 09/19/2023
  - C300, Revision 2, Bulletin 02, 09/19/2023
  - C301, Revision 1, Bulletin 02, 09/19/2023
  - C400, Revision 2, Bulletin 02, 09/19/2023
  - E001, Revision 2, Bulletin 02, 09/19/2023
  - E101, Revision 2, Bulletin 02, 09/19/2023
  - E102, Revision 1, Bulletin 02, 09/19/2023
  - E103, Revision 1, Bulletin 02, 09/19/2023
  - E301, Revision 2, Bulletin 02, 09/19/2023
  - E302, Revision 1, Bulletin 02, 09/19/2023
  - E303, Revision 1, Bulletin 02, 09/19/2023
  - E401, Revision 2, Bulletin 02, 09/19/2023
  - E402, Revision 2, Bulletin 02, 09/19/2023
  - E403, Revision 2, Bulletin 02, 09/19/2023
  - E601, Revision 2, Bulletin 02, 09/19/2023
  - E704, Revision 1, Bulletin 02, 09/19/2023
  - ES01, Revision 2, Bulletin 02, 09/19/2023

H302, Revision 1, Bulletin 02, 09/19/2023  
L100, Revision 2, Bulletin 02, 09/19/2023  
P302, Revision 2, Bulletin 02, 09/19/2023  
S101, Revision 2, Bulletin 02, 09/19/2023  
S102, Revision 2, Bulletin 02, 09/19/2023  
S304, Revision 2, Bulletin 02, 09/19/2023  
00 0110, Table of Contents, Bulletin 02, 09/19/2023  
03 5413, Impact Sound Control Matting, Bulletin 02, 09/19/2023  
07 2500, Weather Barriers, Bulletin 02, 09/19/2023  
07 5423, Thermoplastic Polyolefin Membrane Roofing, Bulletin 02,  
09/19/2023  
08 5313, Vinyl Windows, Bulletin 02, 09/19/2023

ADD \$ \_\_\_\_\_ DEDUCT \$ \_\_\_\_\_ NO CHANGE \_\_\_\_\_

The impact to the Contract Schedule: ADD \_\_\_\_\_ days DEDUCT \_\_\_\_\_ days  
NO CHANGE \_\_\_\_\_

All Contractors are to respond to this Bulletin within 10 days with signature, date, and response. The numbers presented are firm quotations and shall include all material and labor to complete the work in its entirety.

\_\_\_\_\_  
Contractor

\_\_\_\_\_  
Date

Bulletin Prepared by:

**TC ARCHITECTS**

# 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	
<b>TOTAL</b>				<b>50 UNITS TOTAL</b>
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:**

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

ALLOWABLE AREA PER FLOOR (TABLE 506.2)

	ALLOWED	ACTUAL
1ST FLOOR : R-2	21,000 SF	16,419 SF
1ST FLOOR A-3:	18,000 SF	1,032 SF
1ST FLOOR B:	27,000 SF	1,222 SF
<b>TOTAL 1ST FLOOR :</b>	<b>66,000 SF</b>	<b>18,673 SF</b>
2ND FLOOR R-2 :	18,000 SF	17,842 SF
<b>TOTAL 2ND FLOOR :</b>	<b>18,000 SF</b>	<b>17,842 SF</b>
3RD FLOOR R-2 :	18,000 SF	17,740 SF
<b>TOTAL 3RD FLOOR :</b>	<b>18,000 SF</b>	<b>17,740 SF</b>

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

**CHAPTER 7: FIRE RESISTANCE RATED CONSTRUCTION:**

2 HOUR RATED ELEVATOR SHAFTS - UL U905  
 2 HOUR RATED EGRESS STAIR SHAFTS (IN ACCORDANCE W/ 1023.2) - UL U301  
 2 HOUR RATED TRASH SHAFTS - UL U428  
 1 HOUR RATED MACHINE ROOMS - UL U311  
 CORRIDOR WALL - 1 HOUR SEPARATION - UL U311  
 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 (53) TYPE 2-A FIRE EXTINGUISHERS; THREE (3) AT EACH FLOOR AS DIRECTED BY FIRE MARSHALL PLUS (1) IN EVERY UNIT KITCHEN.

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

**CHAPTER 10: MEANS OF EGRESS: TBL. 1004.1.1:**

(R-2) OCCUPANCY - FIRST FLOOR	16,419 SF / 200 = 82.1 OCCUPANTS
(R-2) OCCUPANCY - SECOND FLOOR	17,842 SF / 200 = 89.2 OCCUPANTS
(R-2) OCCUPANCY - THIRD FLOOR	17,740 SF / 200 = 88.7 OCCUPANTS
(B) OCCUPANCY - FIRST FLOOR	1,222 SF / 100 = 12.2 OCCUPANTS
(A-3) OCCUPANCY - FIRST FLOOR	845 SF (COMM. RM) SF / 15 = 56.3 OCCUPANTS
	140 SF (KITCHEN) / 200 = .7 OCCUPANTS
	42 SF (STORAGE) / 300 = .14 OCCUPANTS
<b>TOTAL BUILDING OCCUPANCY</b>	<b>330 POSSIBLE OCCUPANTS</b>

EGRESS WIDTH PER OCCUPANT: (1005.1)

STAIRWAYS = .2" PER OCCUPANT (PER 1005.3.1, EXCEPTION 1)  
 .2" X 178 (2ND + 3RD FLOORS (PER STAIR)) = 35.8" REQUIRED (48" PROVIDED)

OTHER EGRESS: .2" PER OCCUPANT  
 FIRST FLOOR 151.44 X .2" 30" REQUIRED (60" PROVIDED)  
 SECOND FLOOR 89.2 X .2" 17.84" REQUIRED (60" PROVIDED)  
 THIRD FLOOR 88.7 X .2" 17.74" REQUIRED (60" PROVIDED)

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

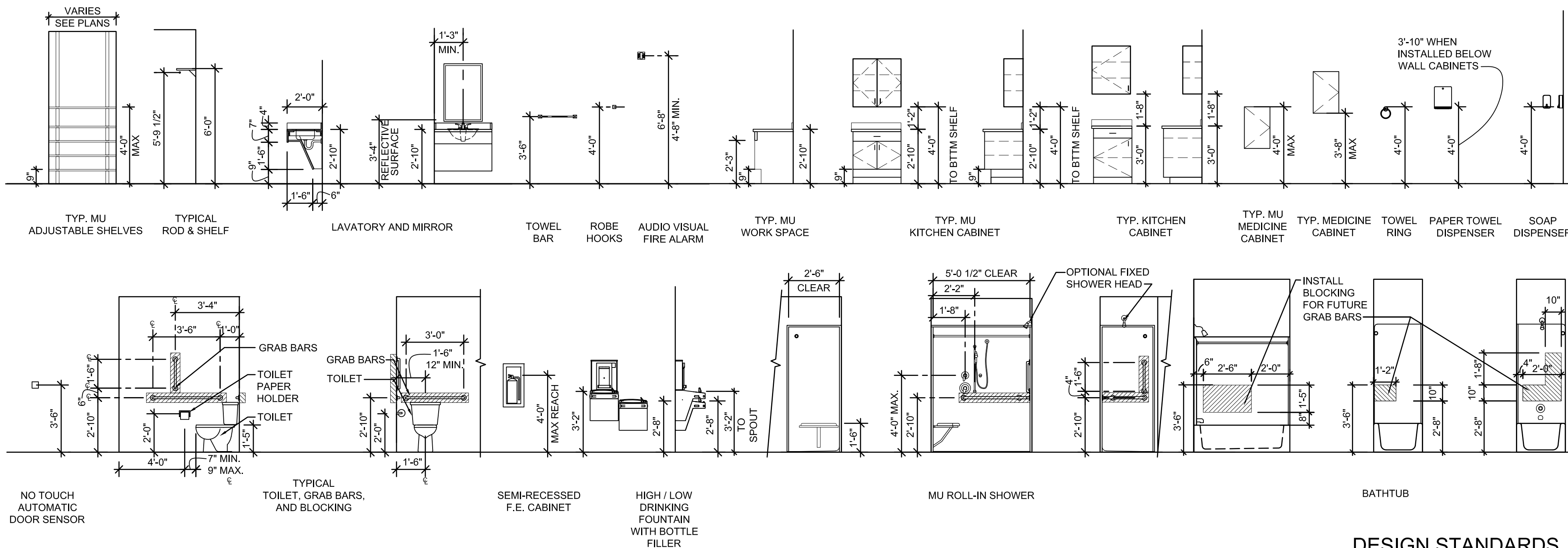
HEIGHT - 24"

WIDTH = 20"

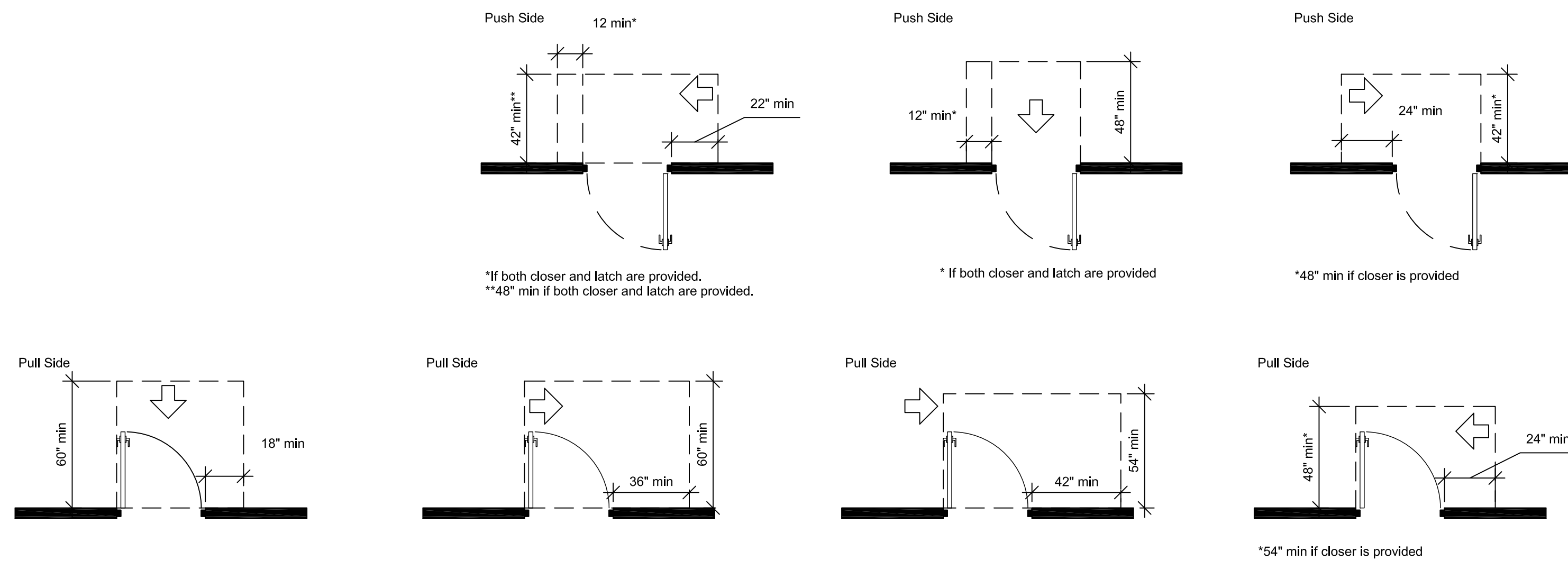
SILL = 44" MAX ABOVE FINISH FLOOR

**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) ACCESSIBLY UNITS PER ICC A117.1 CHAPTER 10.

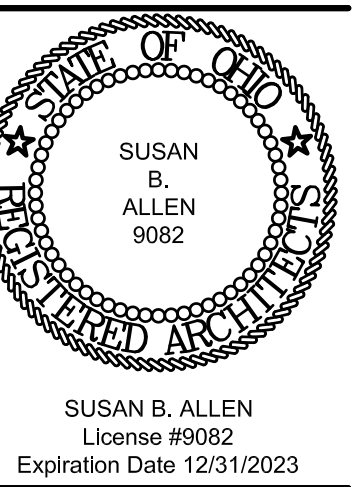


## DESIGN STANDARDS



## MANEUVERING CLEARANCES FOR ALL DOORS

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



**REVISIONS**  
 BULLETIN 01 07/17/2023  
 BULLETIN 02 09/19/2023

**CODE DATA**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**



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**TURNING VISIONS INTO REALITY**

03/31/2023

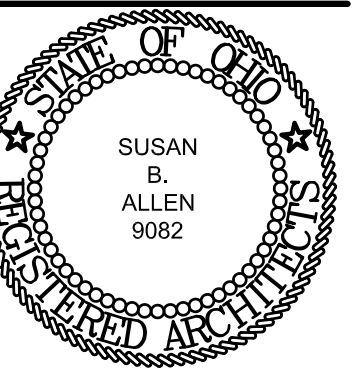
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82A21

PROJECT NUMBER

**A002**

DRAWING NUMBER

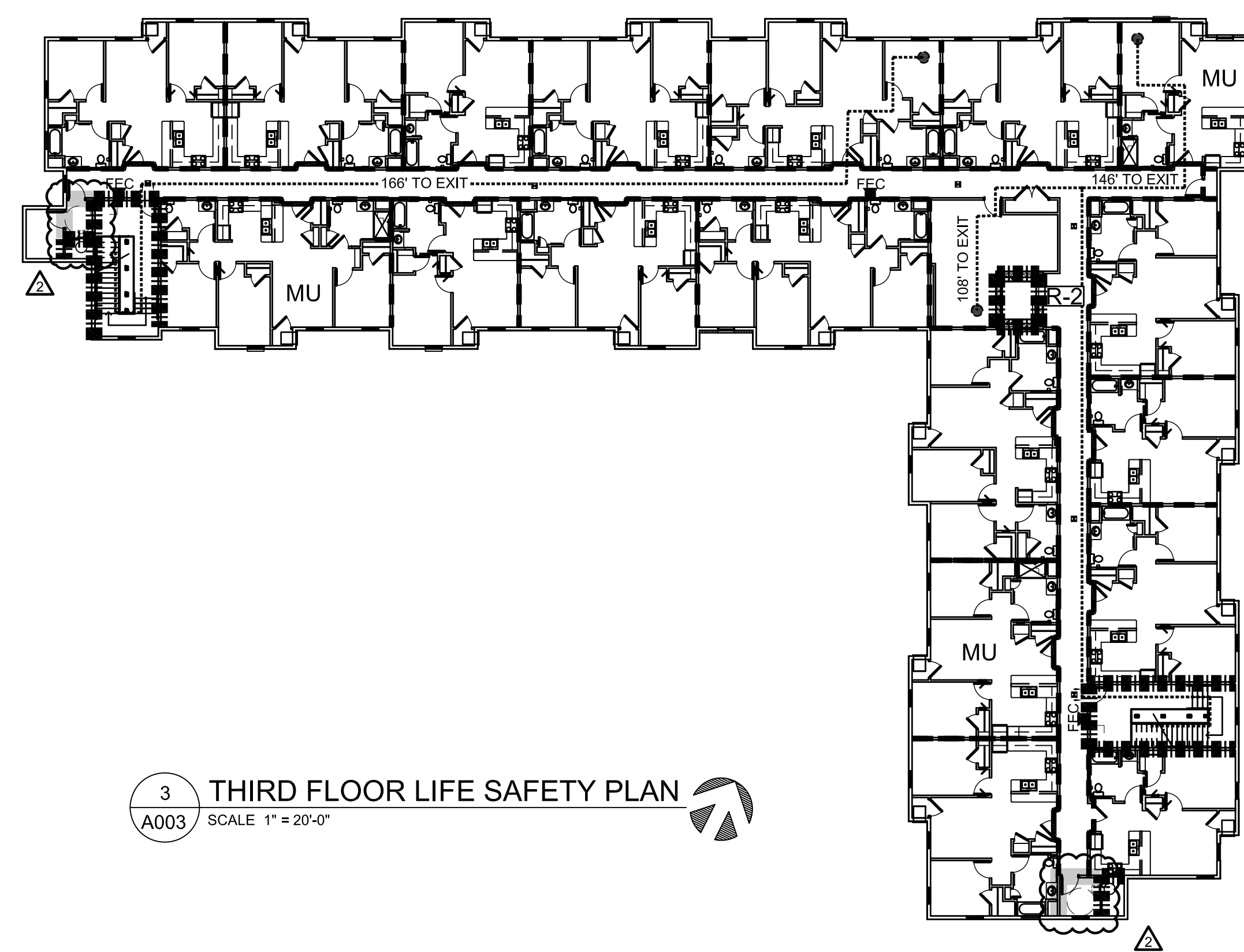


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Expiration Date 12/31/2023

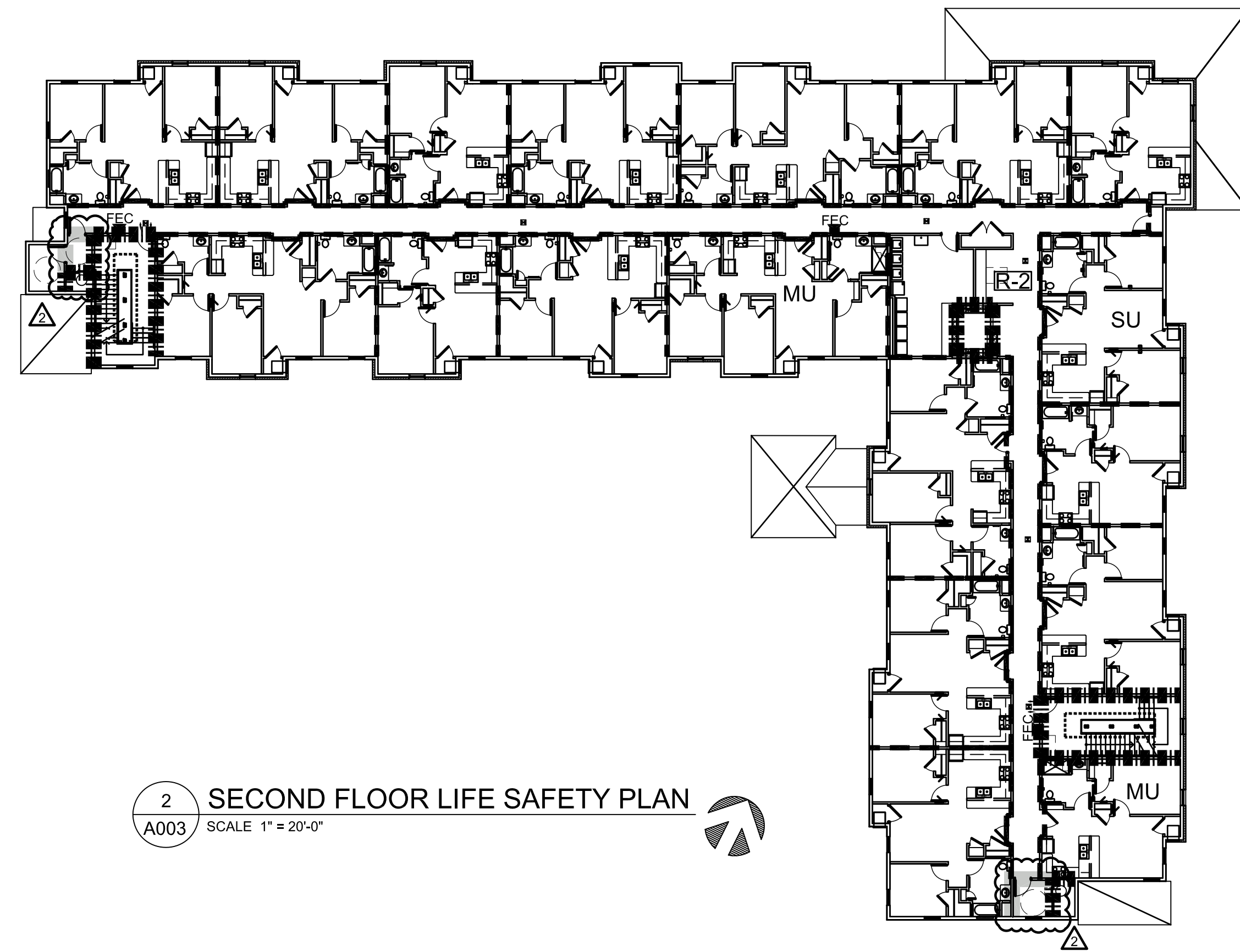
REVISIONS  
▲ BULLETIN 01 07/17/2023  
▲ BULLETIN 02 09/19/2023

**LEGEND**

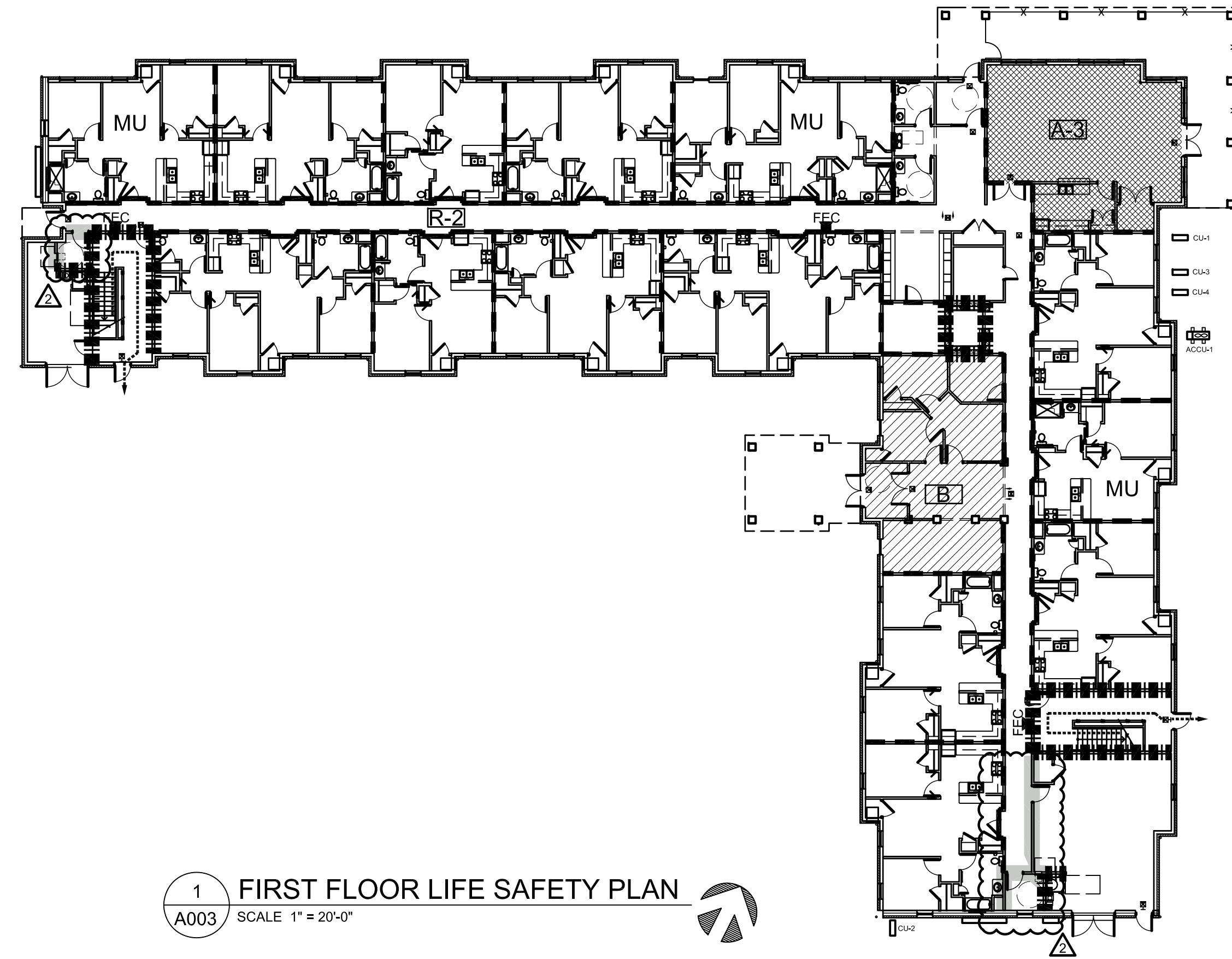
----- 1 HOUR FIRE PARTITION      [Wavy Line] 1 HOUR FIRE BARRIER      - - - - - 2 HOUR FIRE BARRIER



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  
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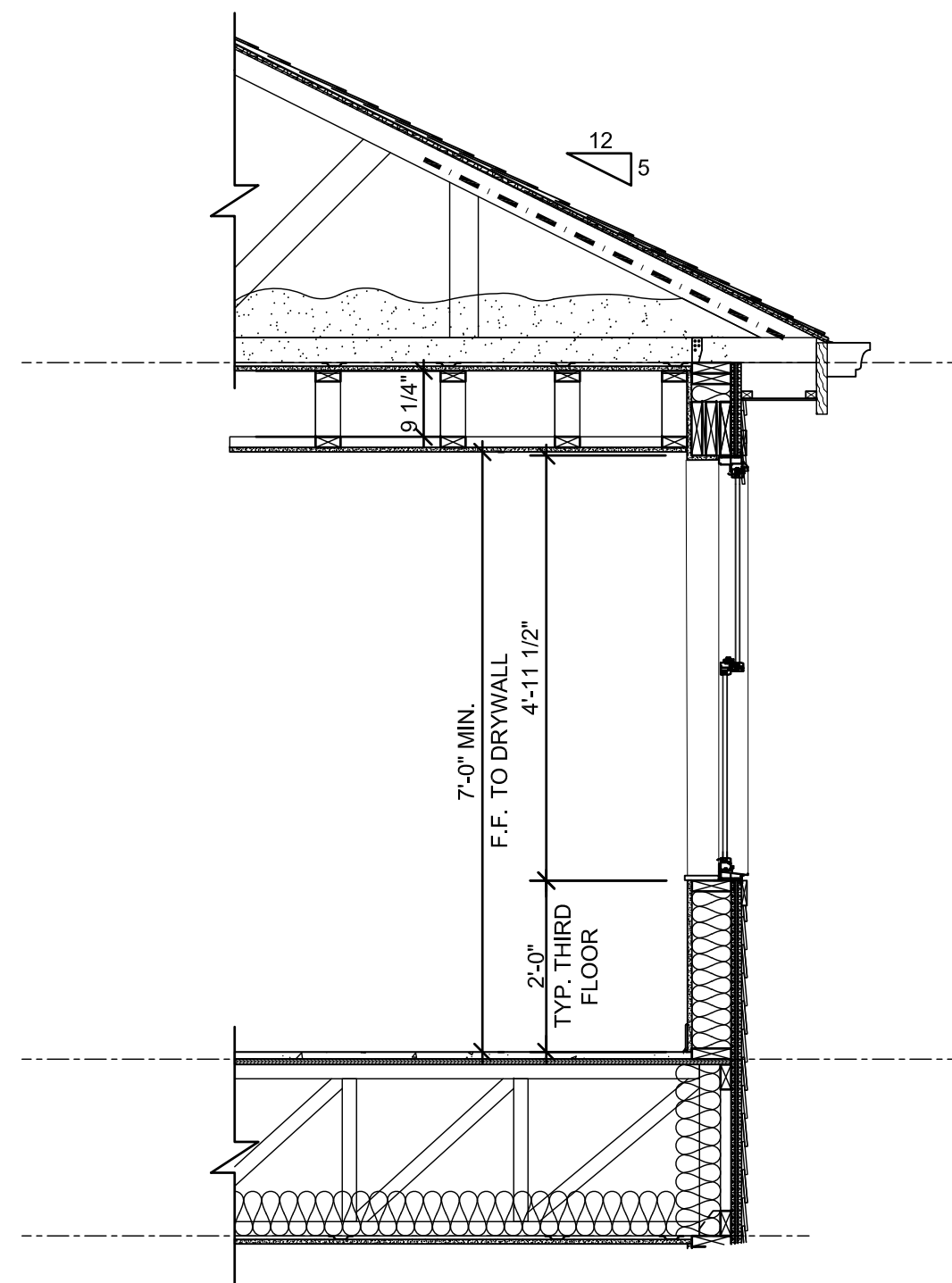
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82A21

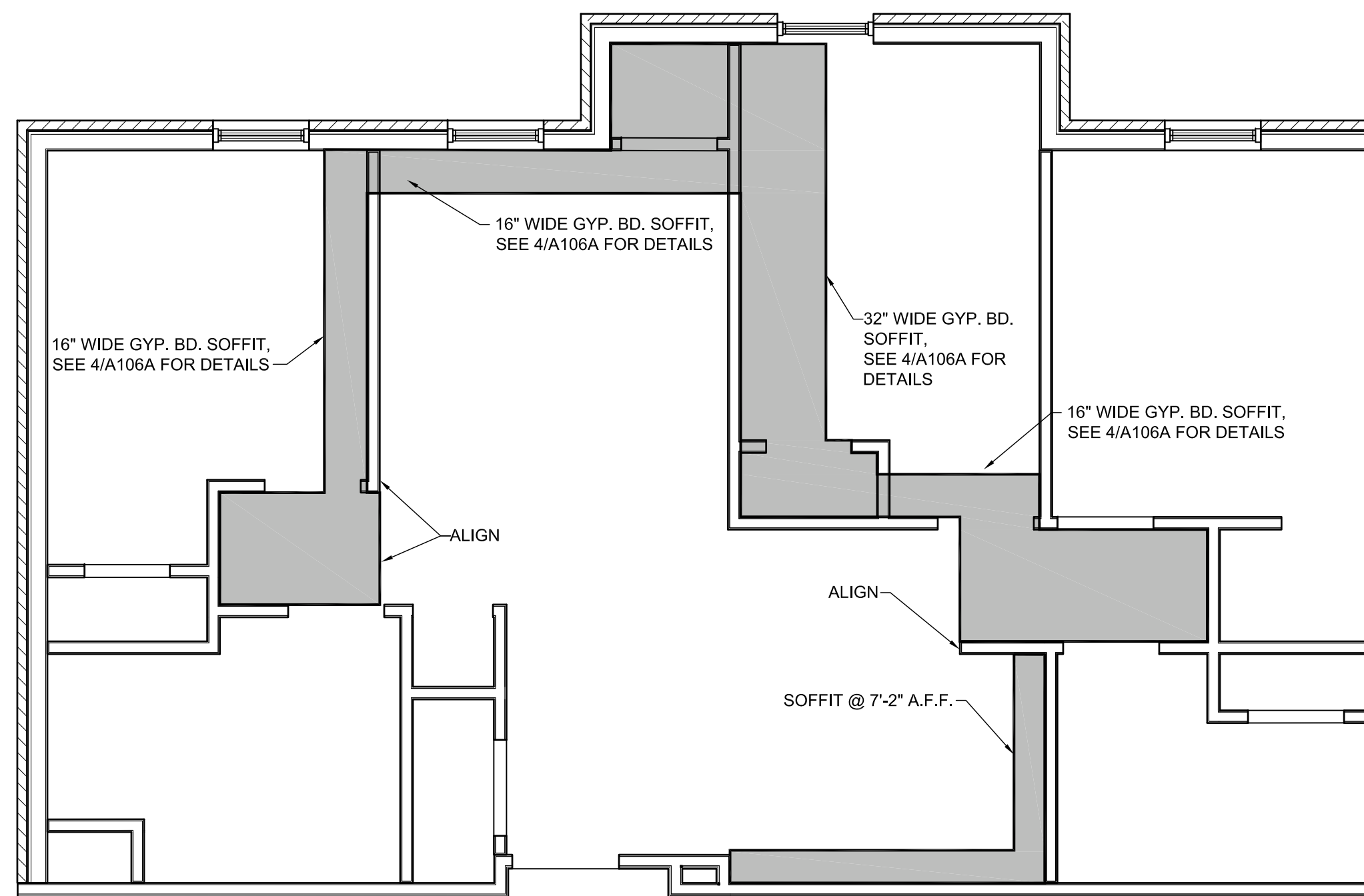
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A003

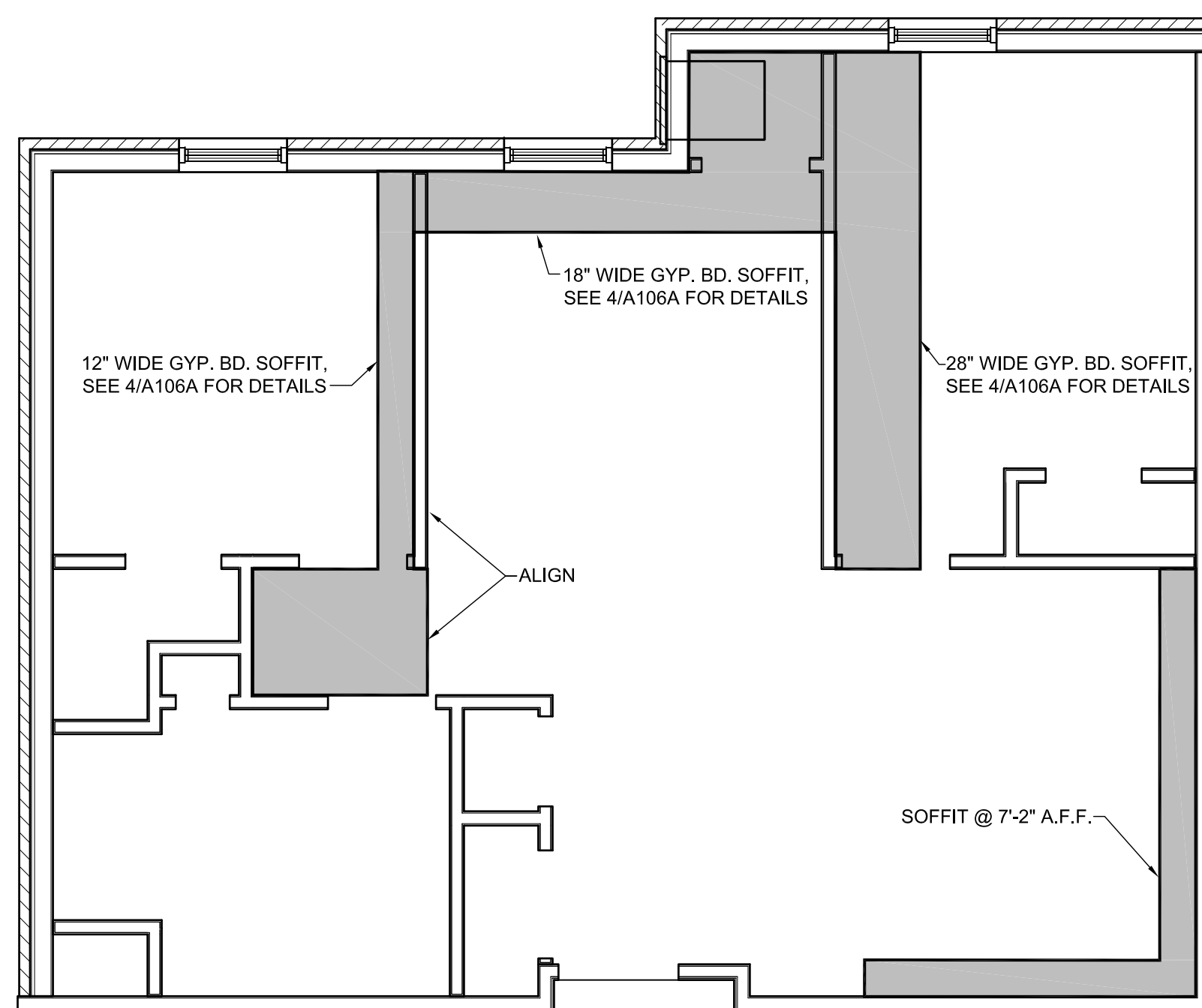
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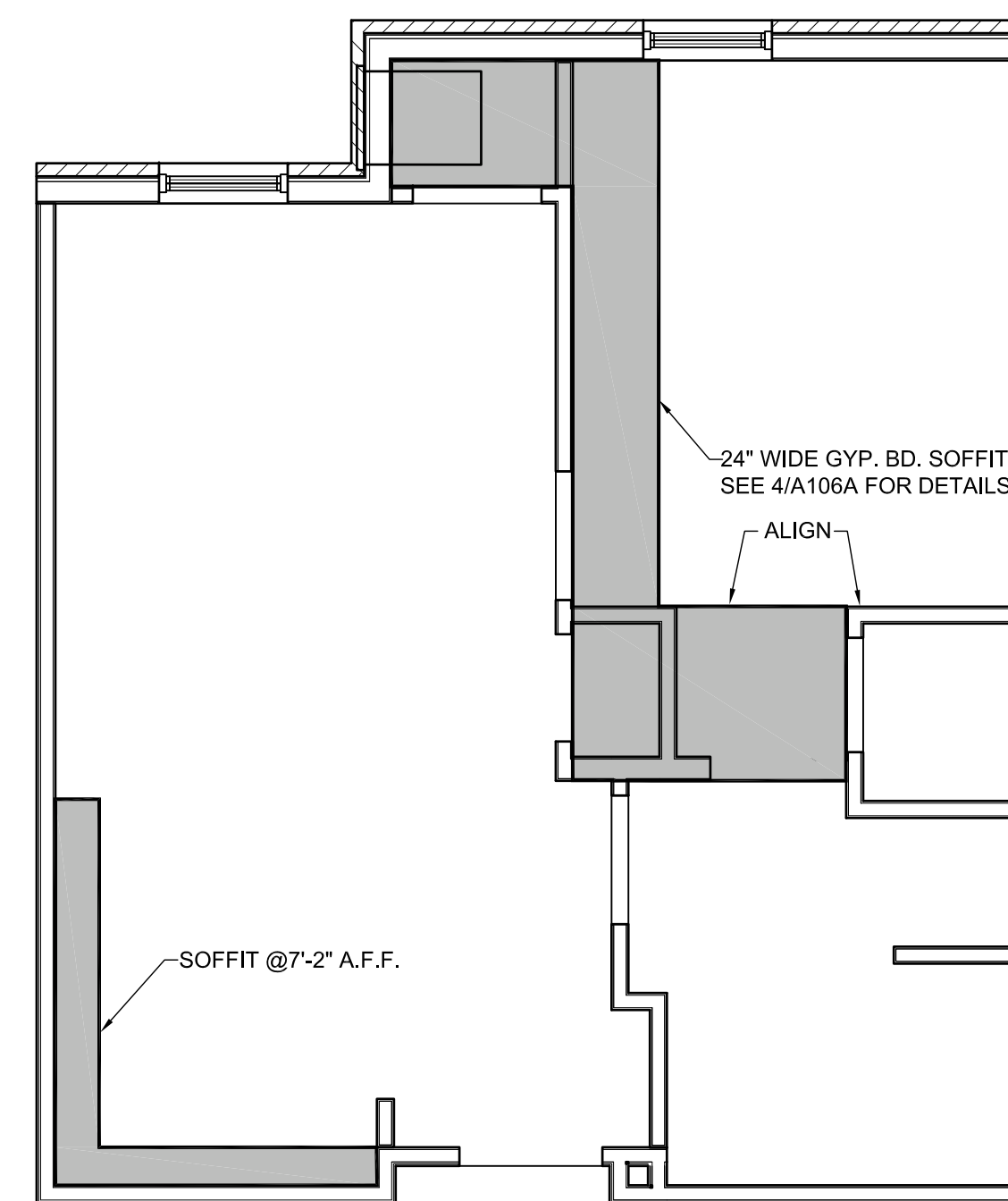
4 SOFFIT SECTION  
A106A SCALE: 1/4" = 1'-0"



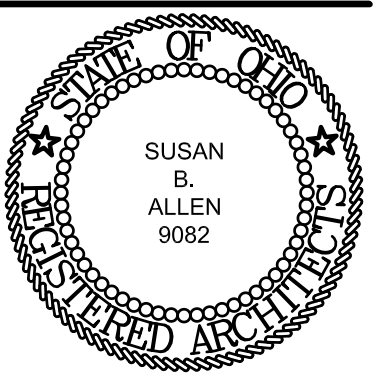
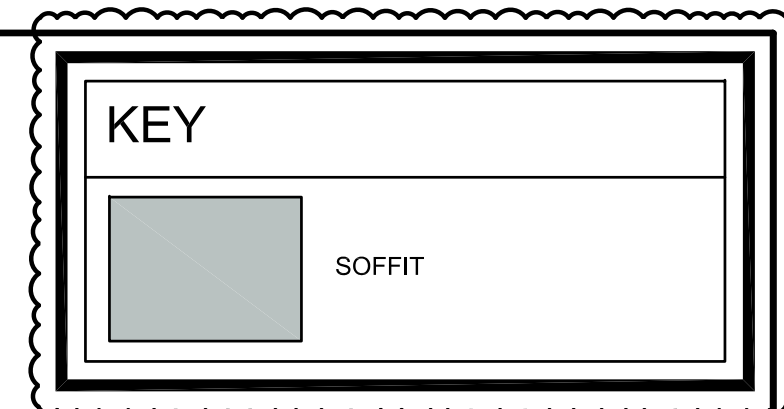
3 THREE BEDROOM RCP  
A106A SCALE: 1/4" = 1'-0"



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



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



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3RD FLOOR ONLY - UNIT RCP  
GERMANTOWN CROSSING  
DAYTON OHIO



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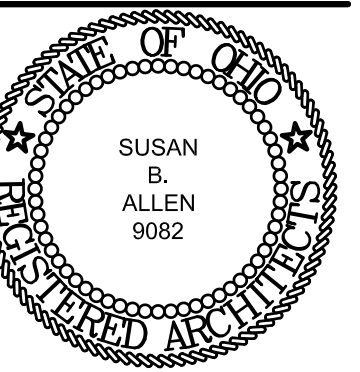
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A106A  
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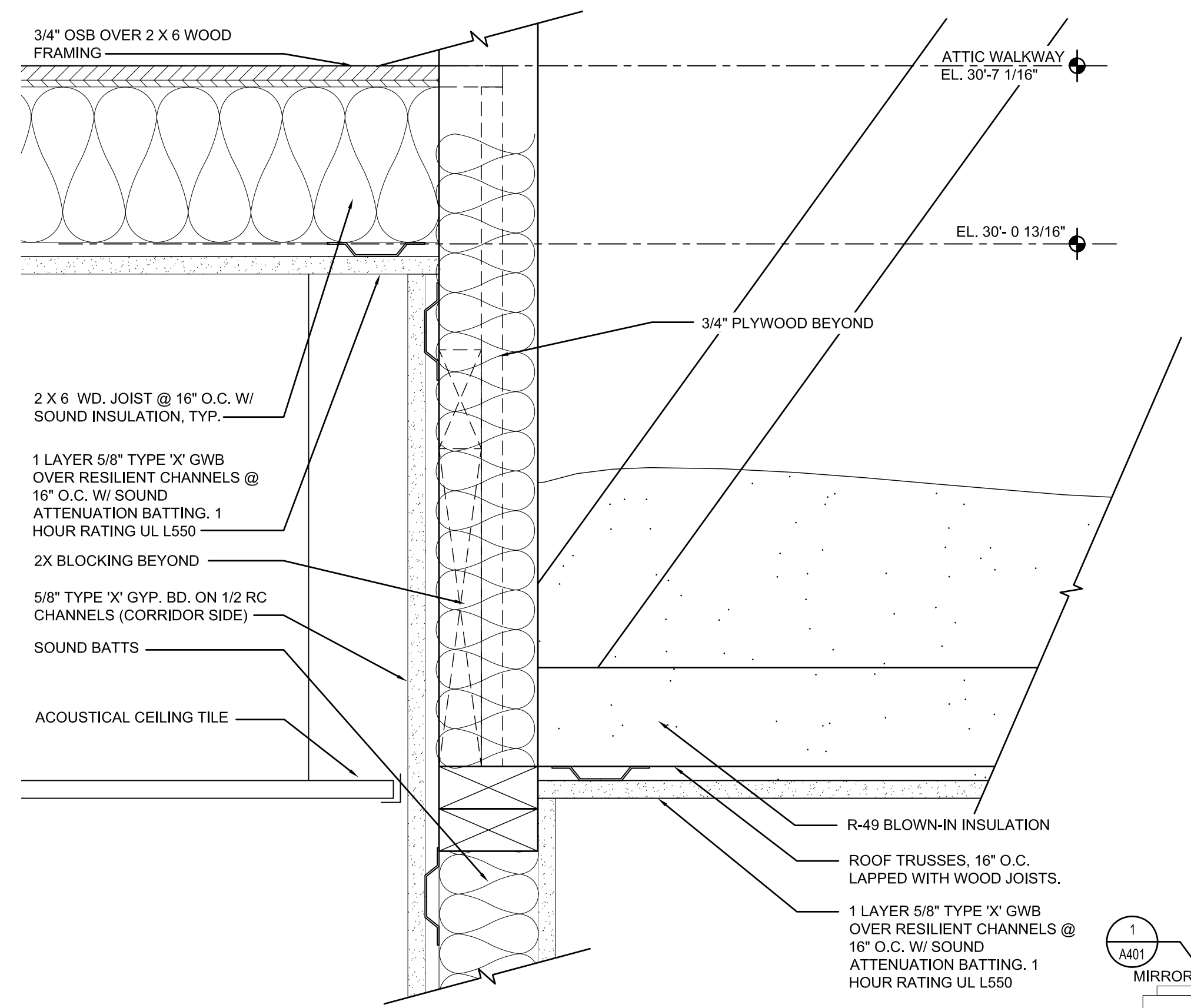
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REVISIONS

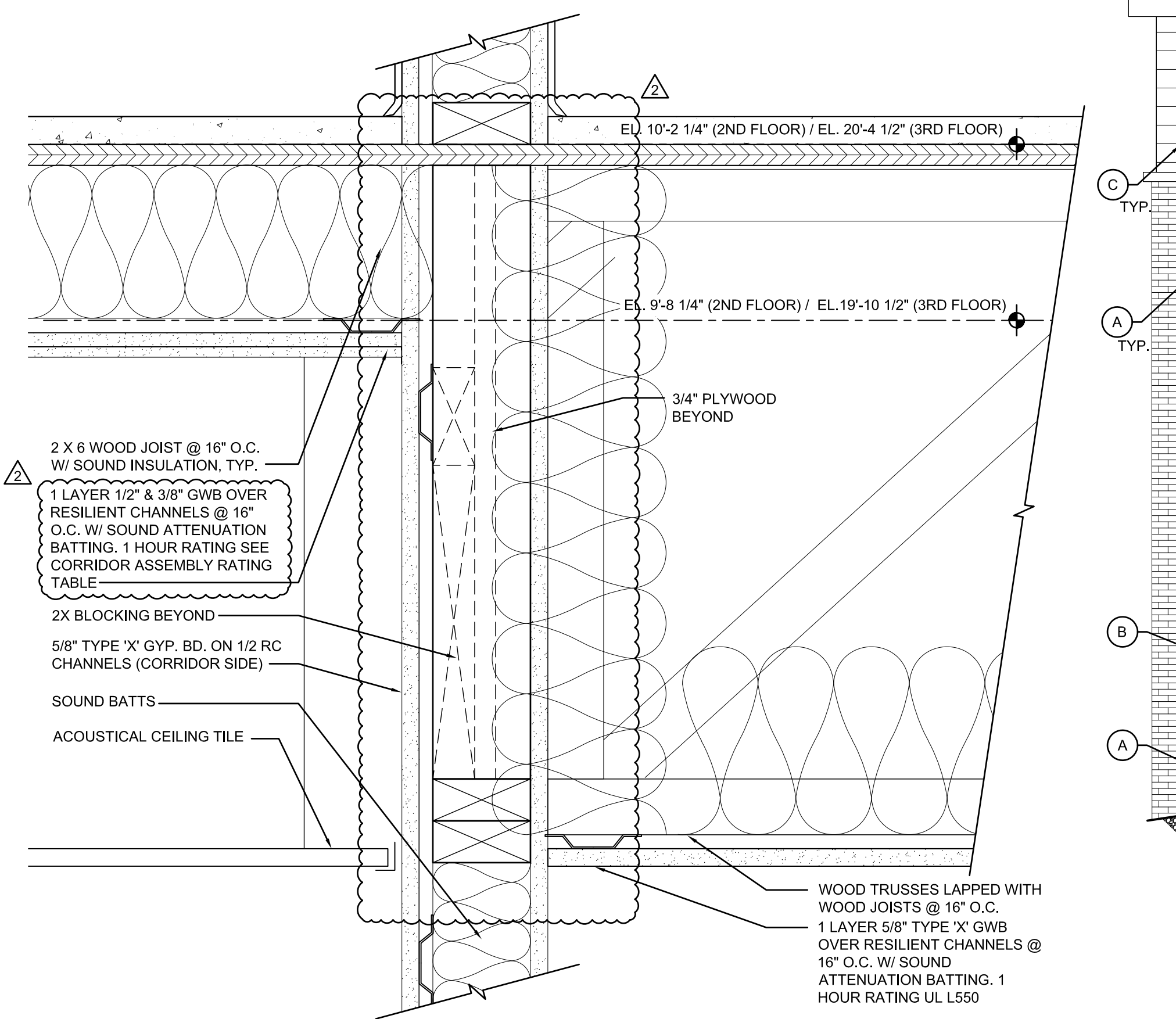
- ▲ BULLETIN 01 07/17/2023
- ▲ BULLETIN 02 09/19/2023

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	-

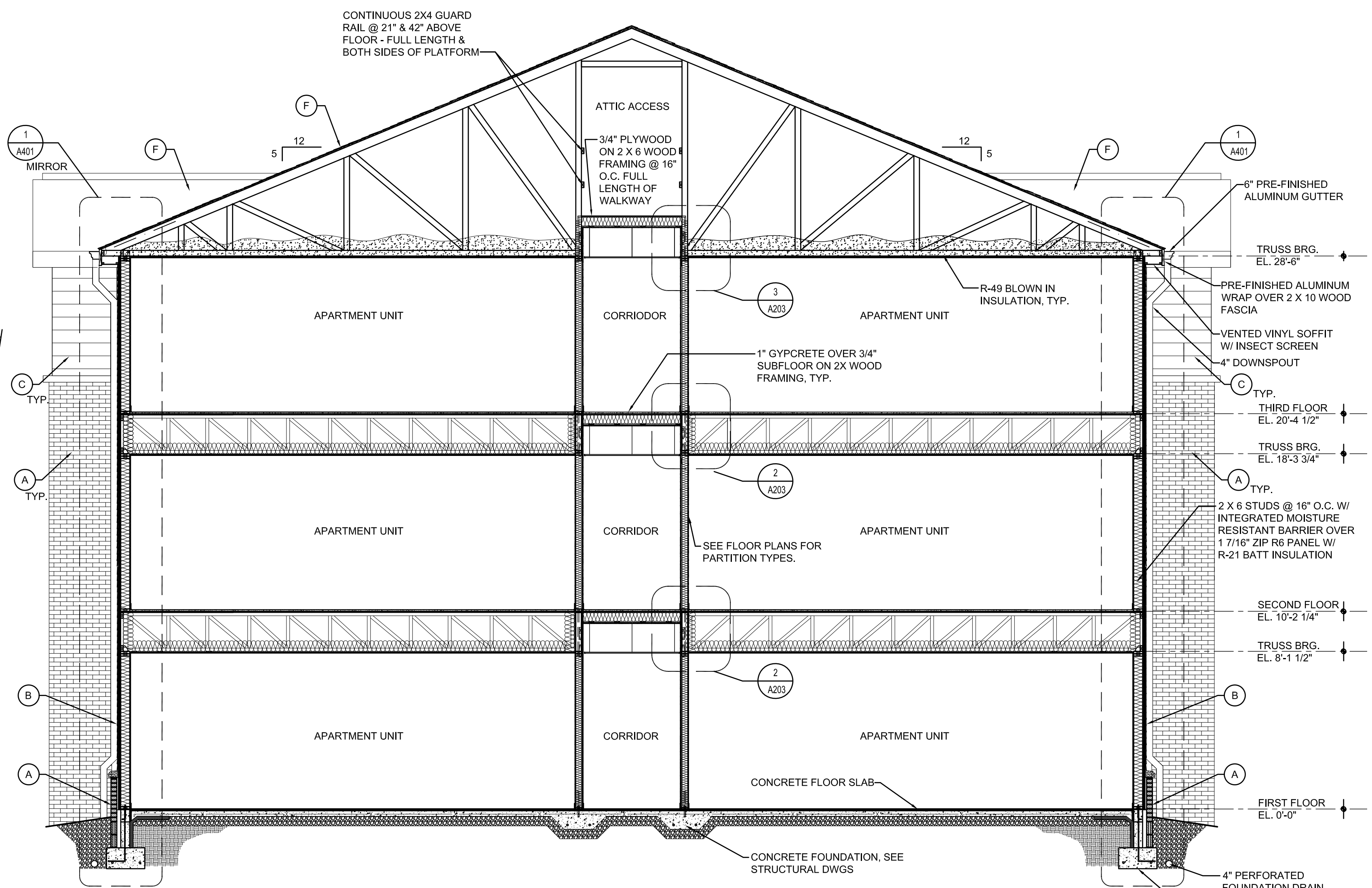
CORRIDOR ASSEMBLY RATING TABLE	
*ASSEMBLY RATED PER OBC 722.6	
PER TABLE 722.6.2(1):	
19/32" WOOD STRUCTURAL PANEL BONDED W/ EXTERIOR GLUE=	15 MINUTES.
1/2" + 3/8" GYPSUM WALL BOARD=	35 MINUTES.
PER 722.6.2(2) WOOD JOIST @ 16" O.C.=	10 MINUTES.
SEE 2/A203 & 3/A203	=1 HOUR RATED ASSEMBLY.*



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"

BUILDING SECTION  
 GERMANTOWN CROSSING  
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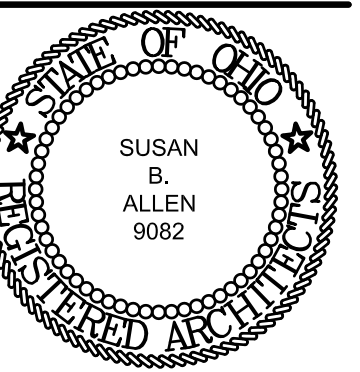
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82A21  
PROJECT NUMBER

A203  
DRAWING NUMBER







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STAIR PLANS & DETAILS

GERMANTOWN CROSSING  
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TURNING VISIONS  
INTO REALITY

03/31/2023

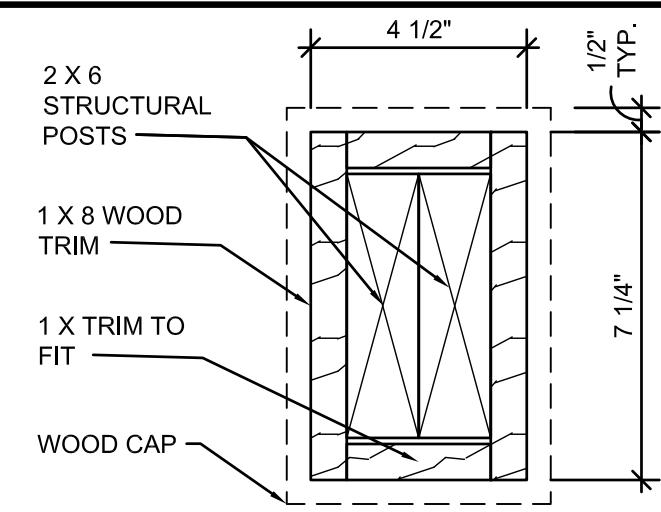
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82A21

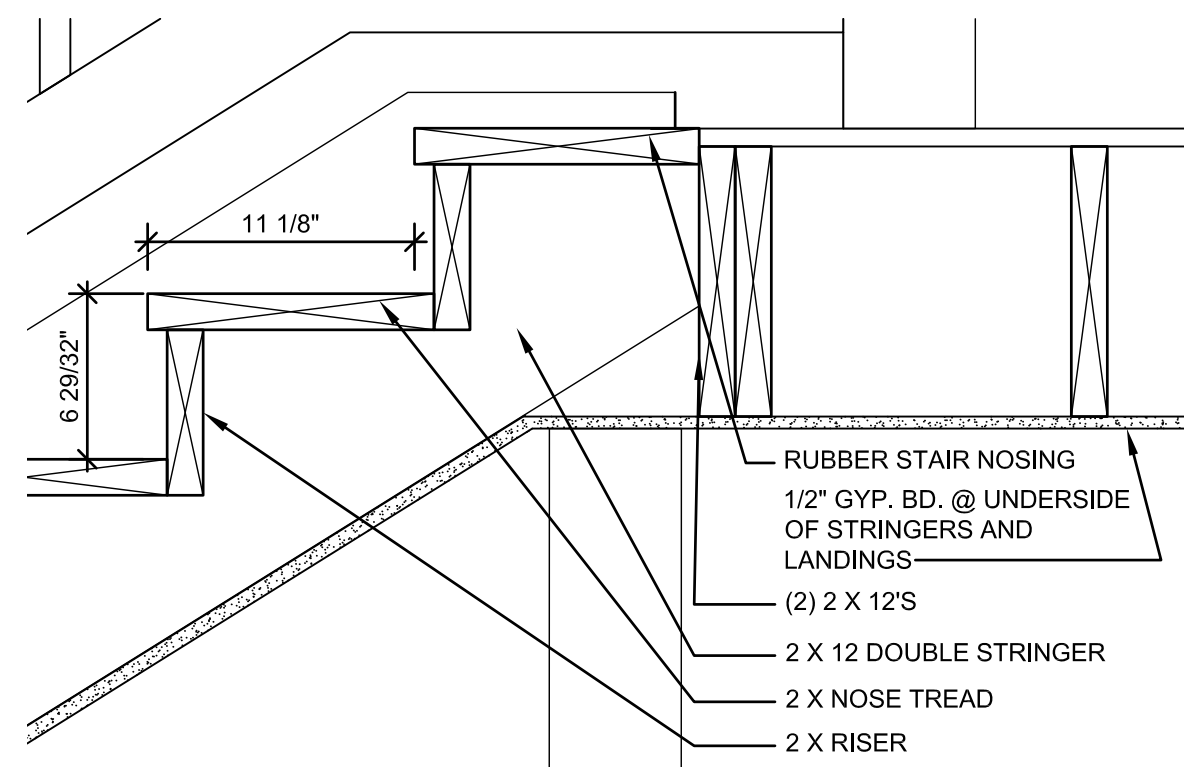
PROJECT NUMBER

A302

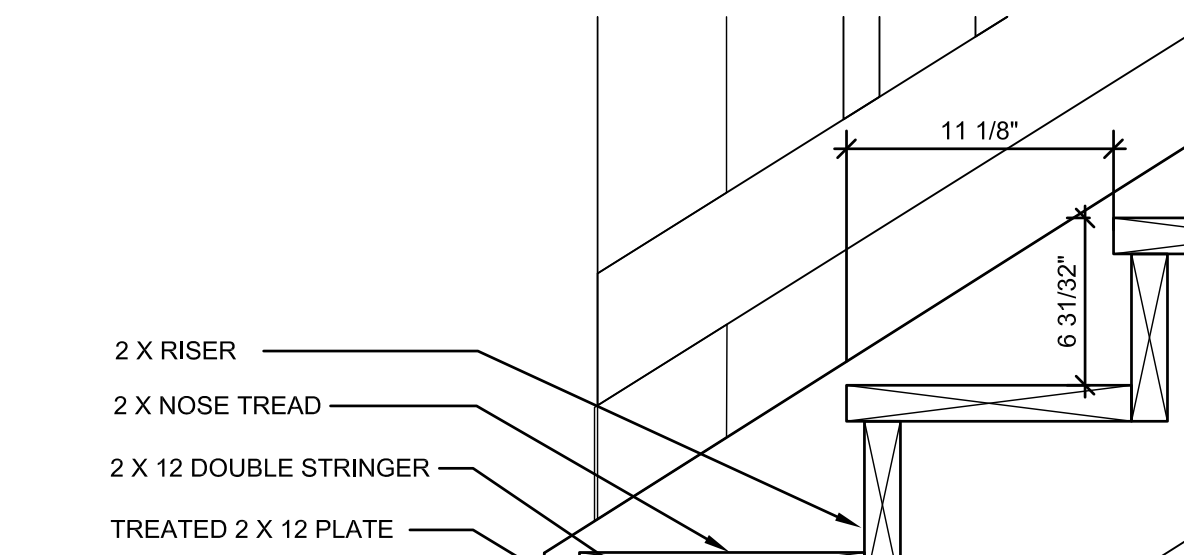
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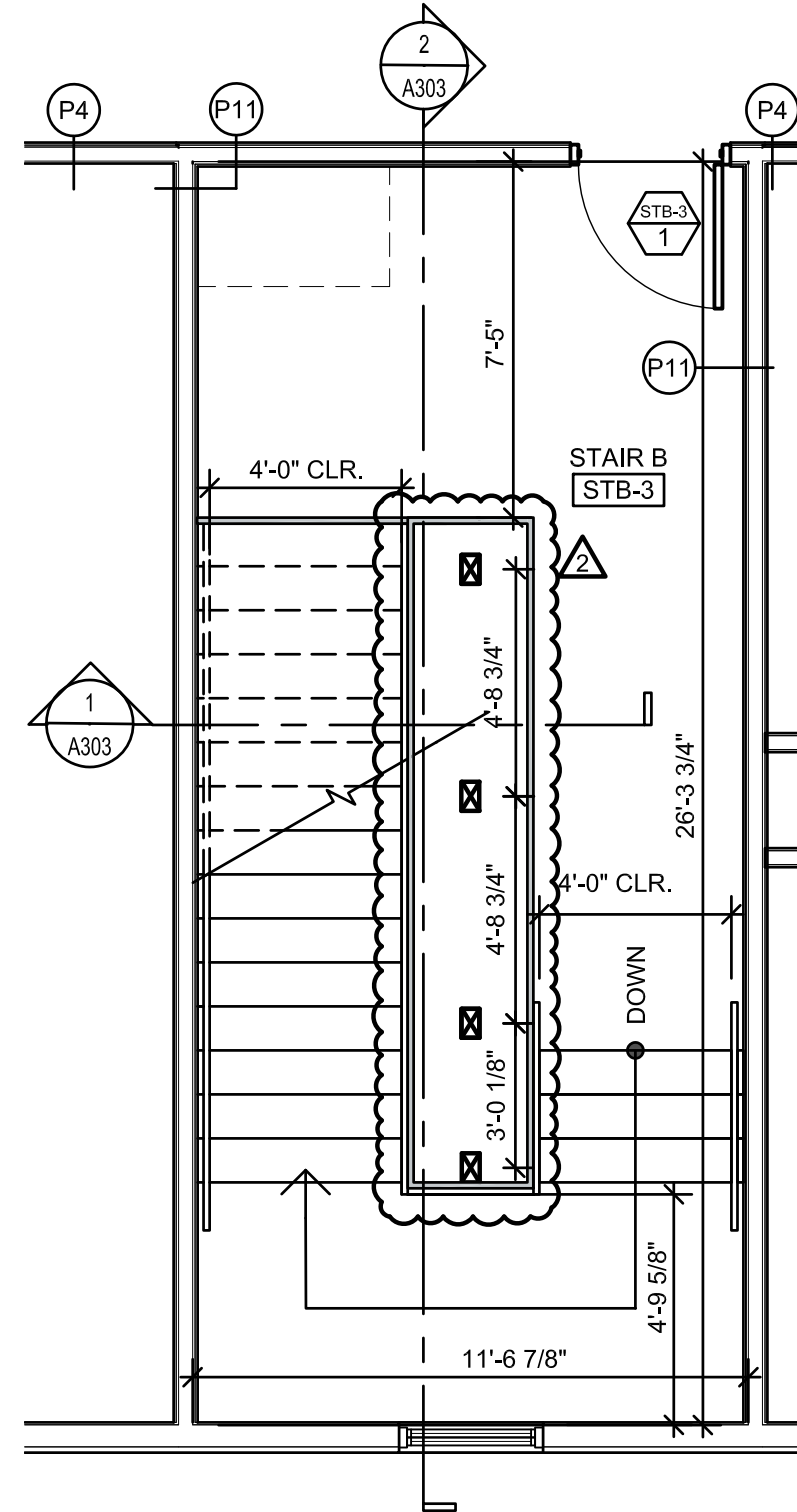
9 STAIR POST DETAIL  
A302 SCALE: 3" = 1'-0"



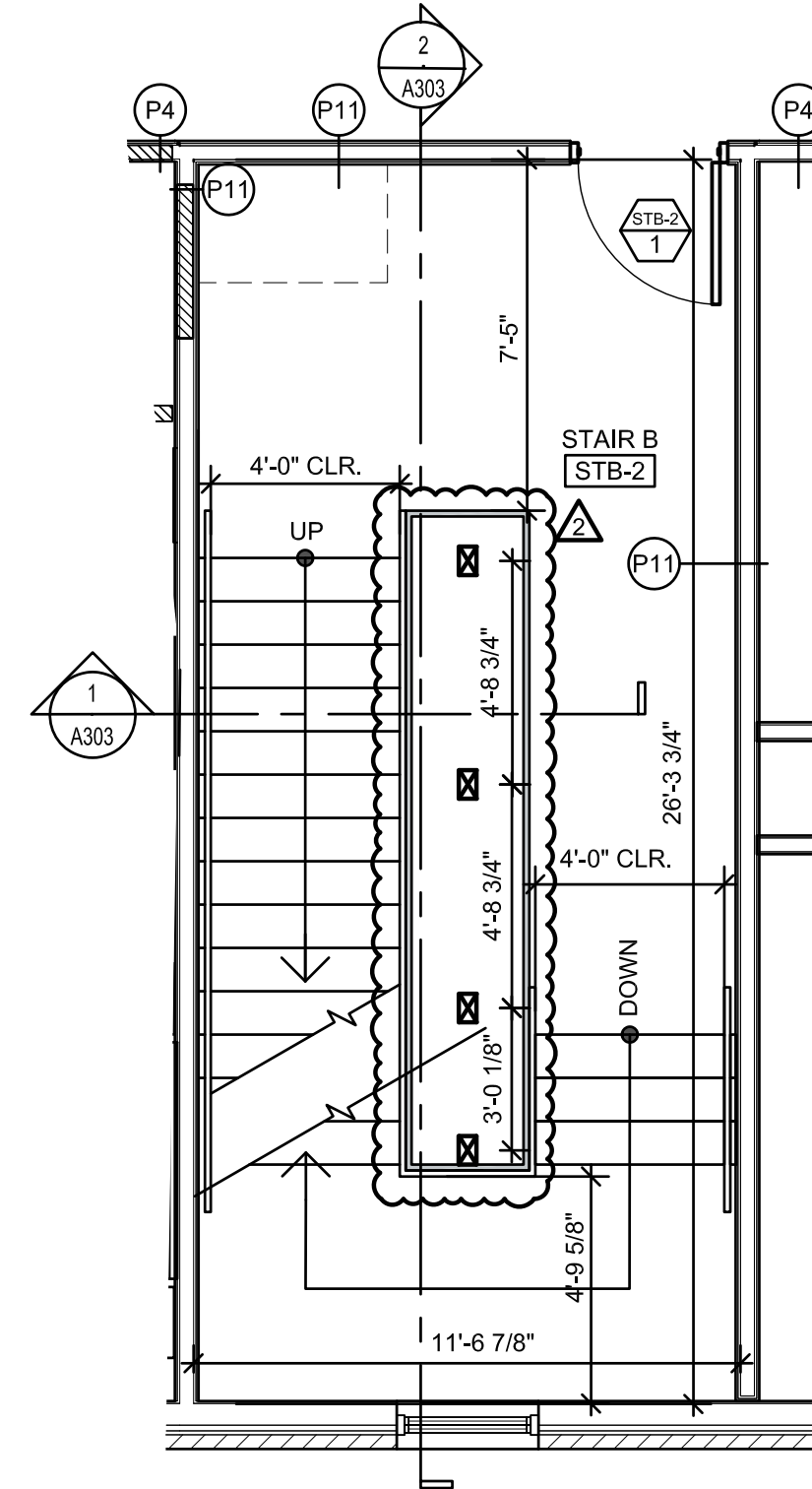
8 STAIR TOP DETAIL  
A302 SCALE: 1 1/2" = 1'-0"



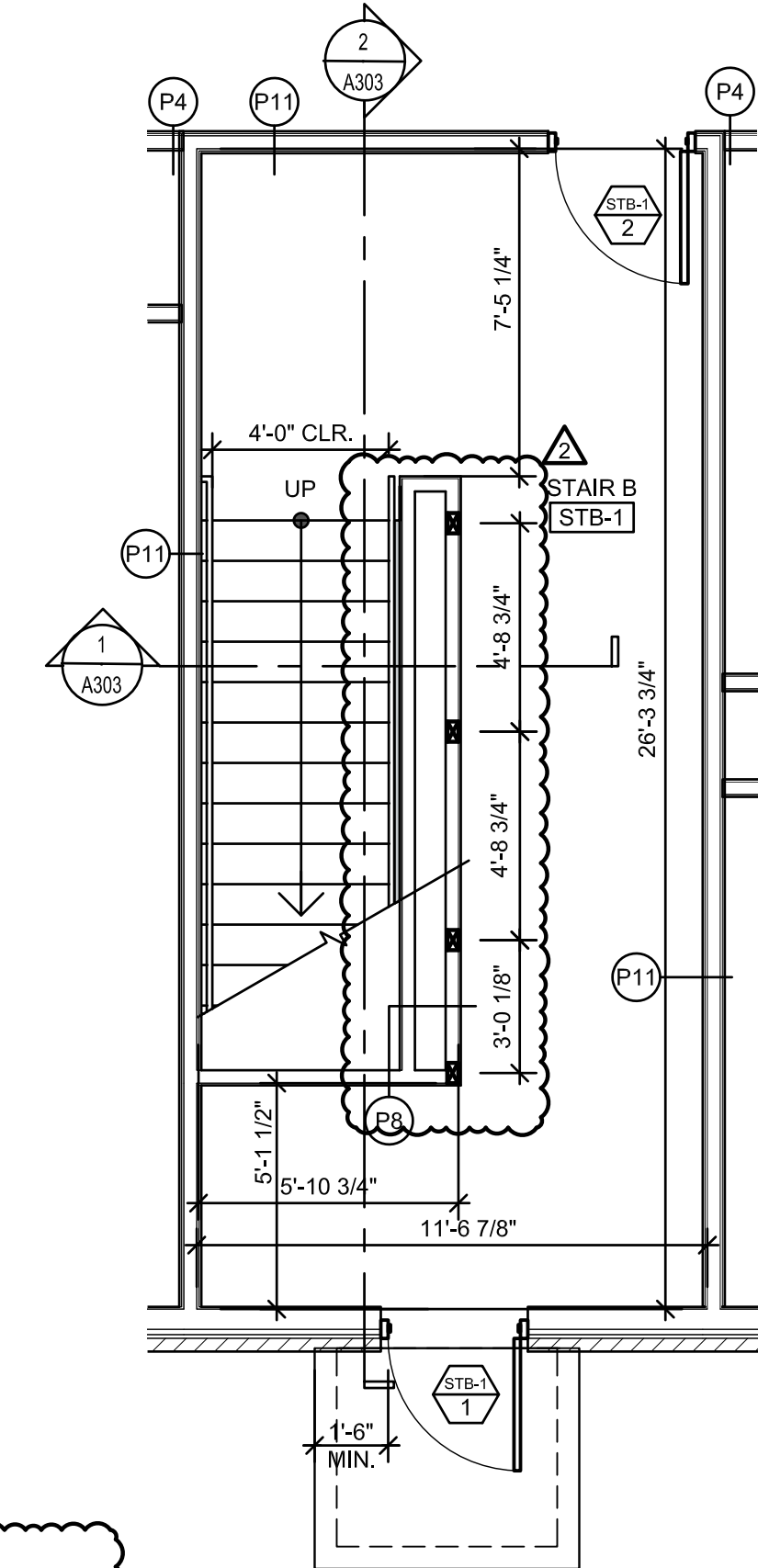
7 STAIR BOTTOM DETAIL  
A302 SCALE: 1 1/2" = 1'-0"



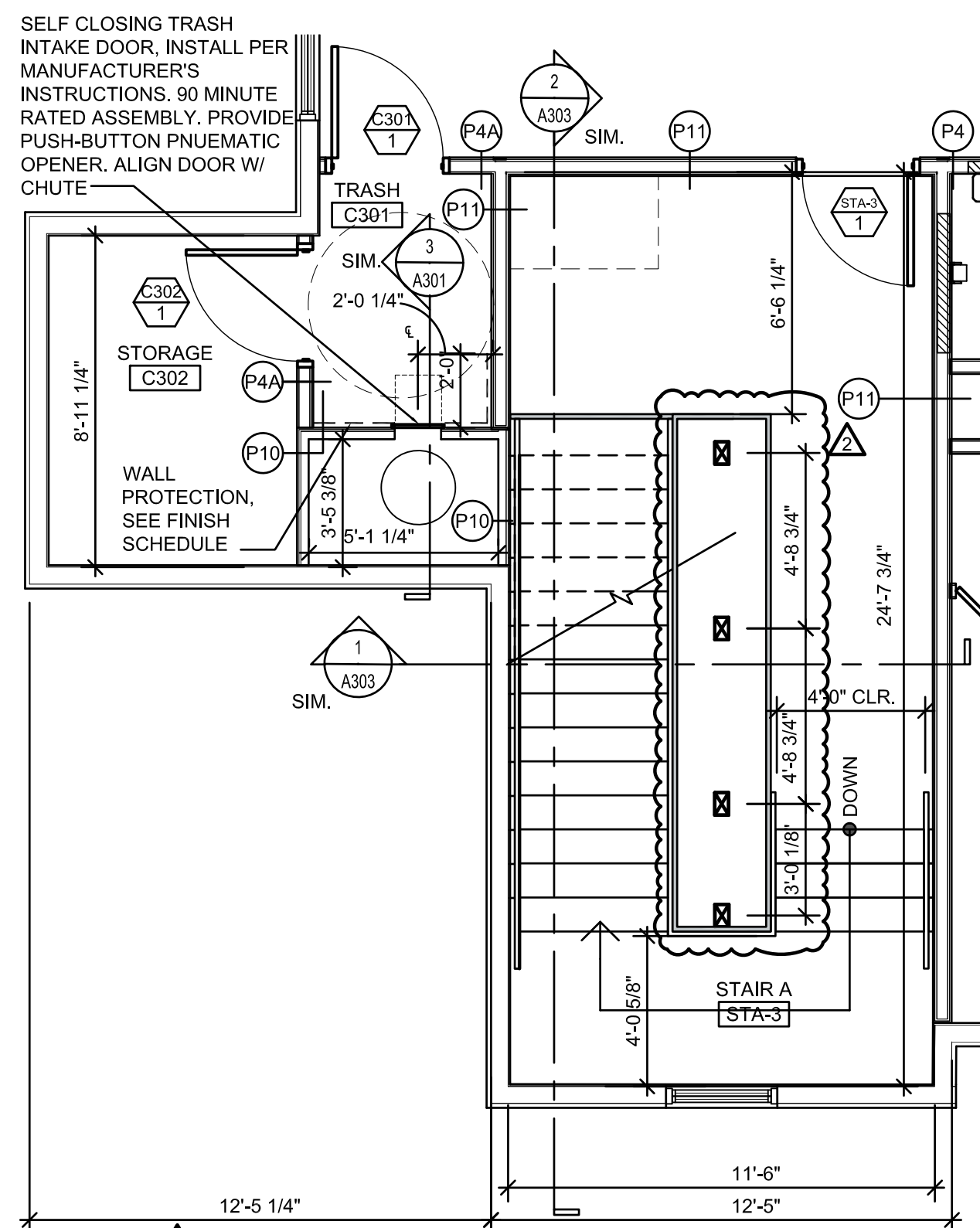
6 3RD FLOOR STAIR B PLAN  
A302 SCALE: 1/4" = 1'-0"



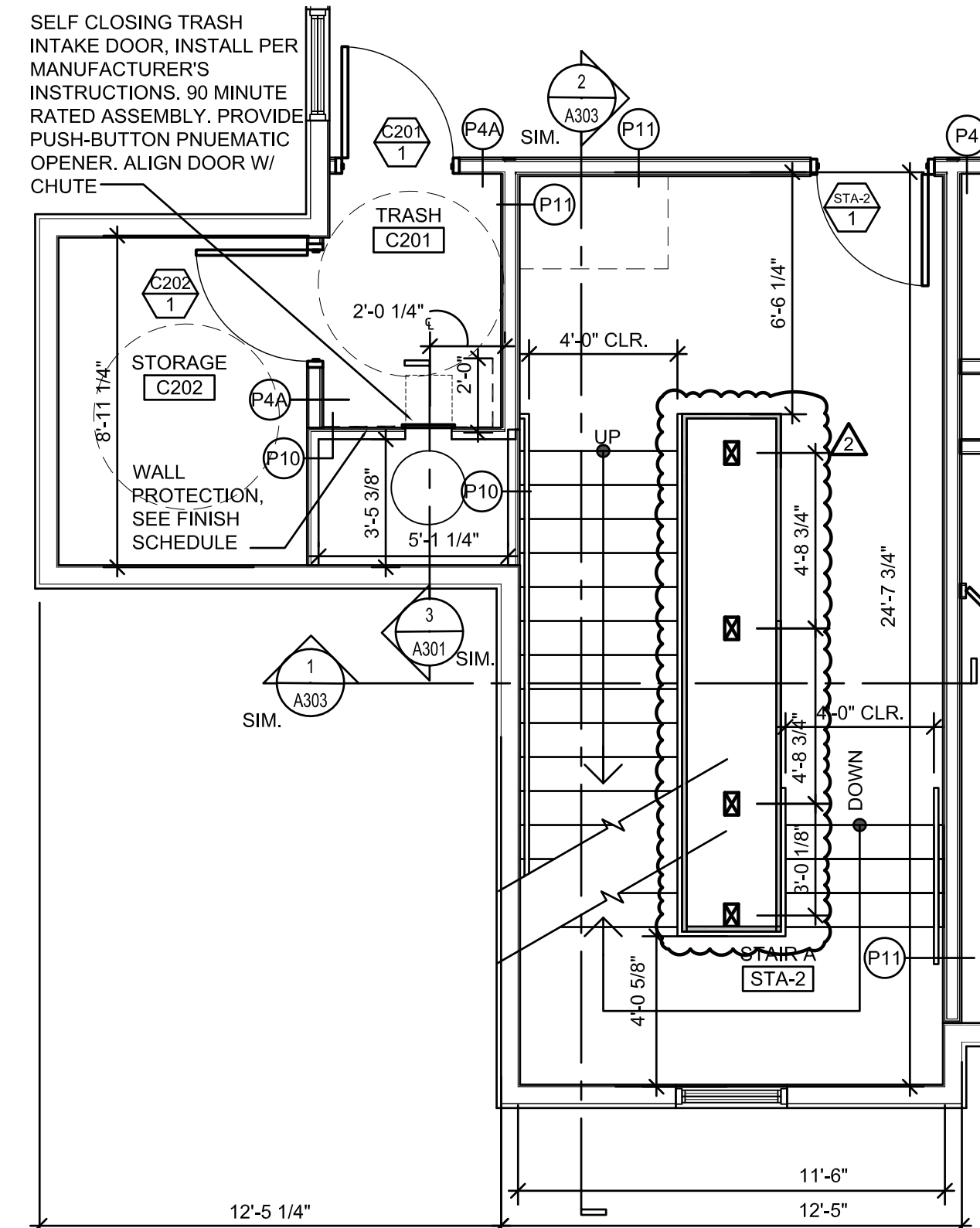
5 2ND FLOOR STAIR B PLAN  
A302 SCALE: 1/4" = 1'-0"



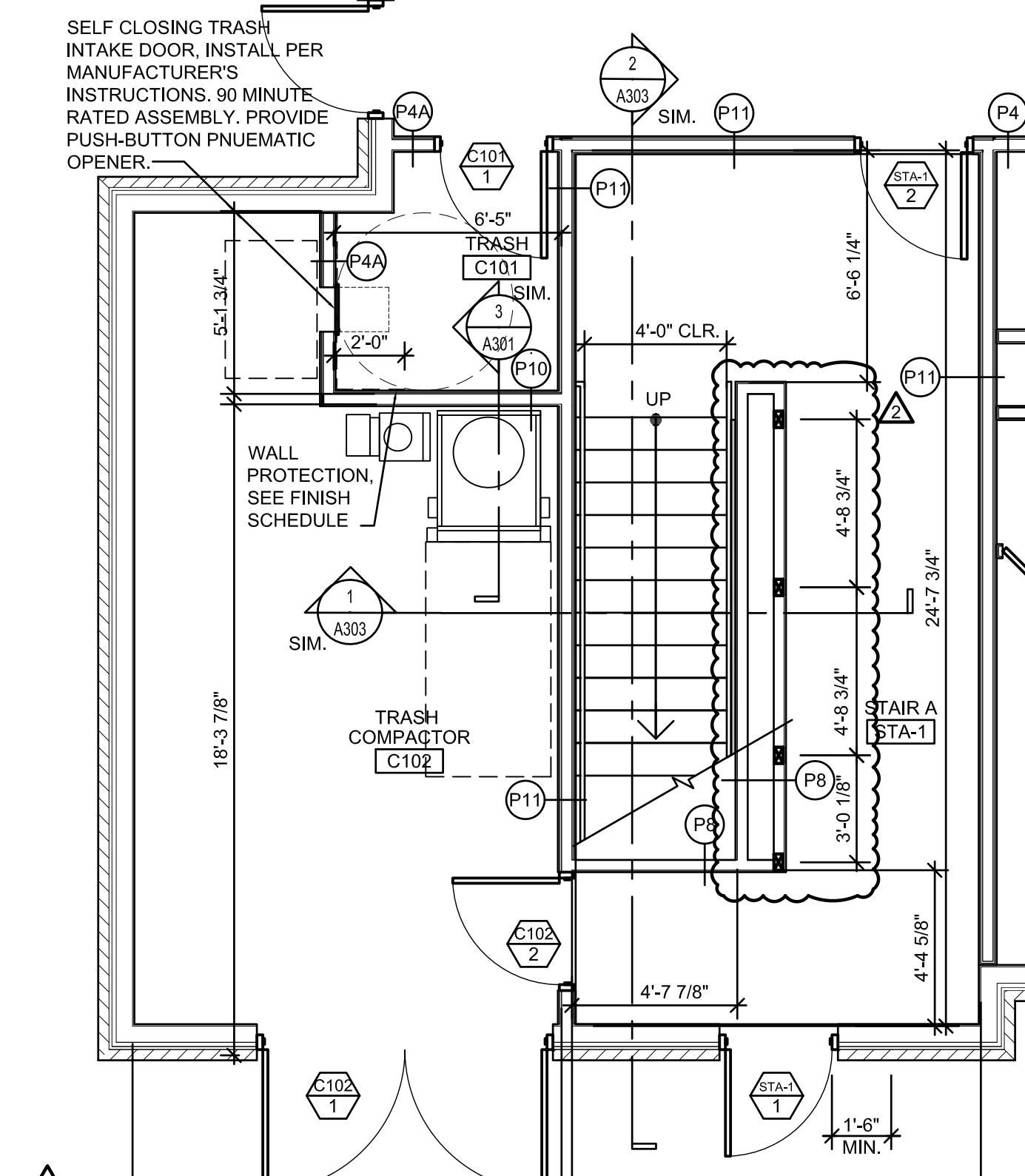
4 1ST FLOOR STAIR B PLAN  
A302 SCALE: 1/4" = 1'-0"



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

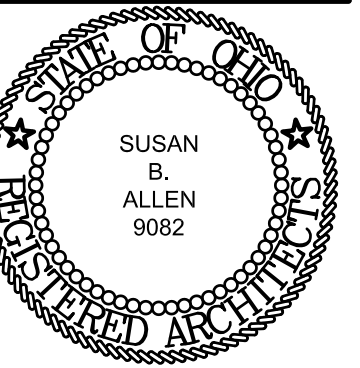


2 2ND FLOOR STAIR A PLAN  
A302 SCALE: 1/4" = 1'-0"



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

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REVISIONS	
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**STAIR SECTIONS**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**



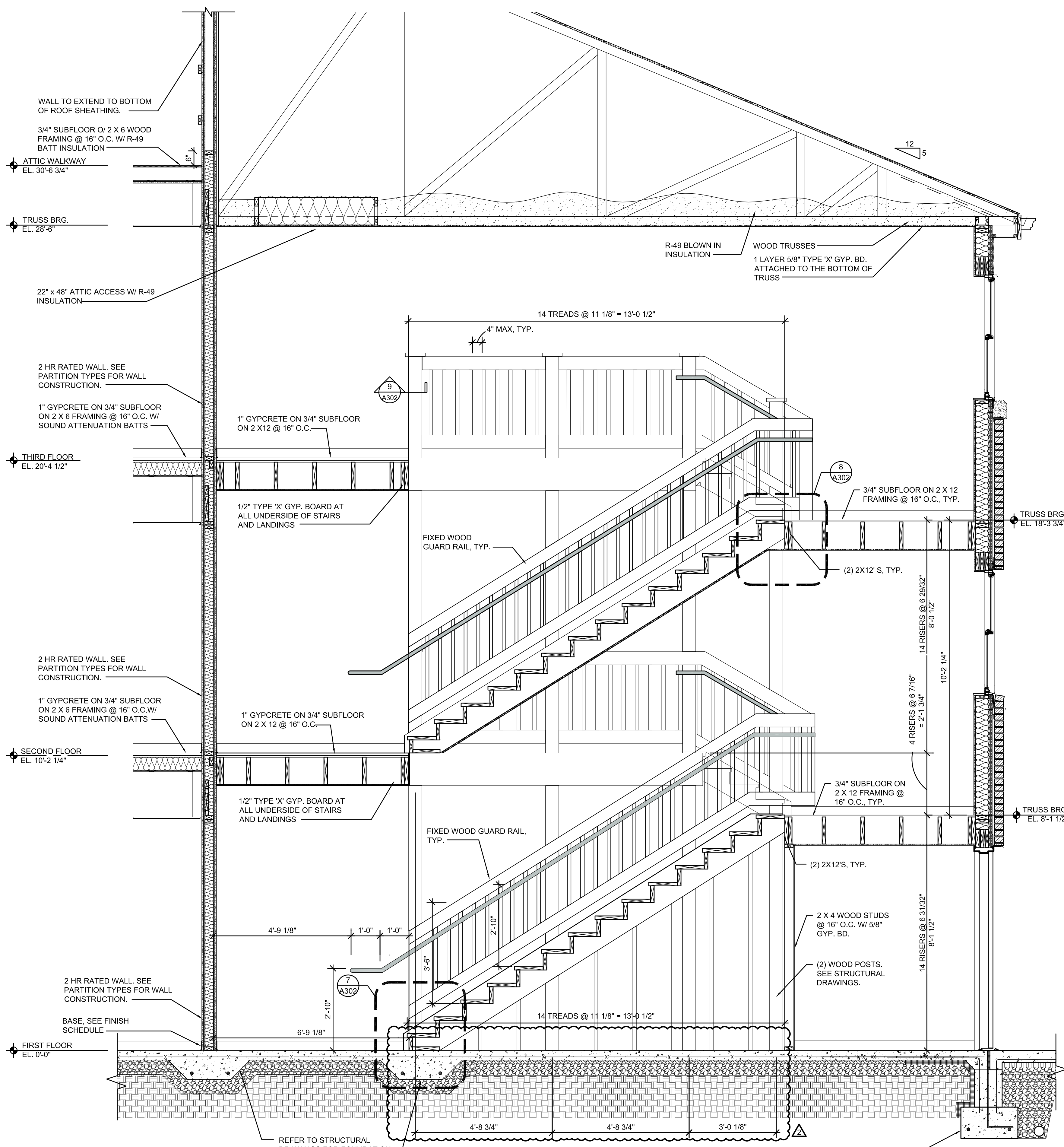
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03/31/2023  
DATE  
82A21  
PROJECT NUMBER

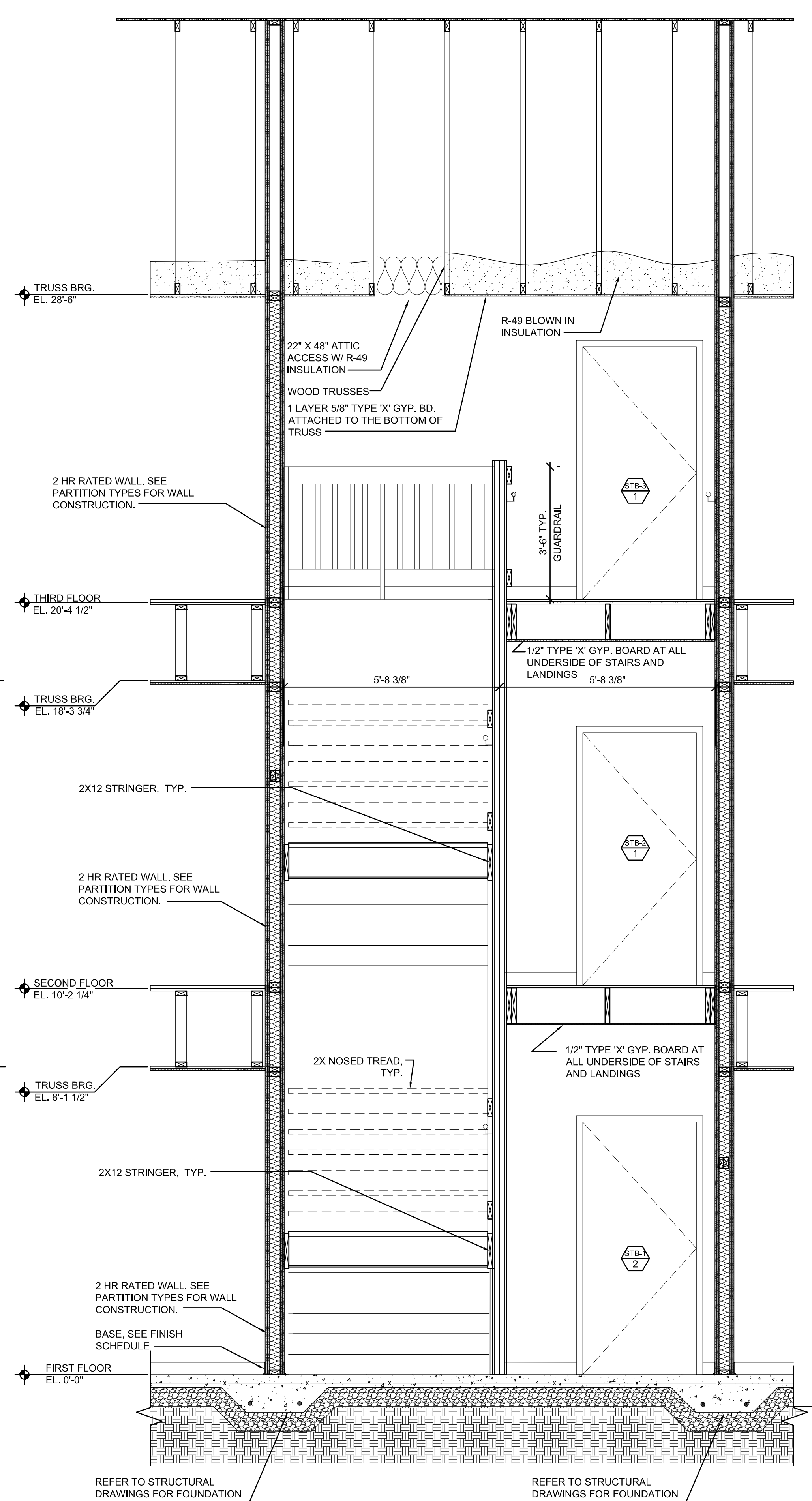
**A303**  
DRAWING NUMBER

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

REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION

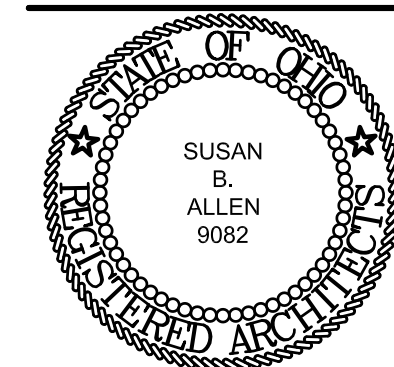


**1 STAIR SECTION**  
A303 SCALE: 1/2" = 1'-0"

REFER TO STRUCTURAL DRAWINGS FOR FOUNDATION INFORMATION

**GENERAL NOTES**

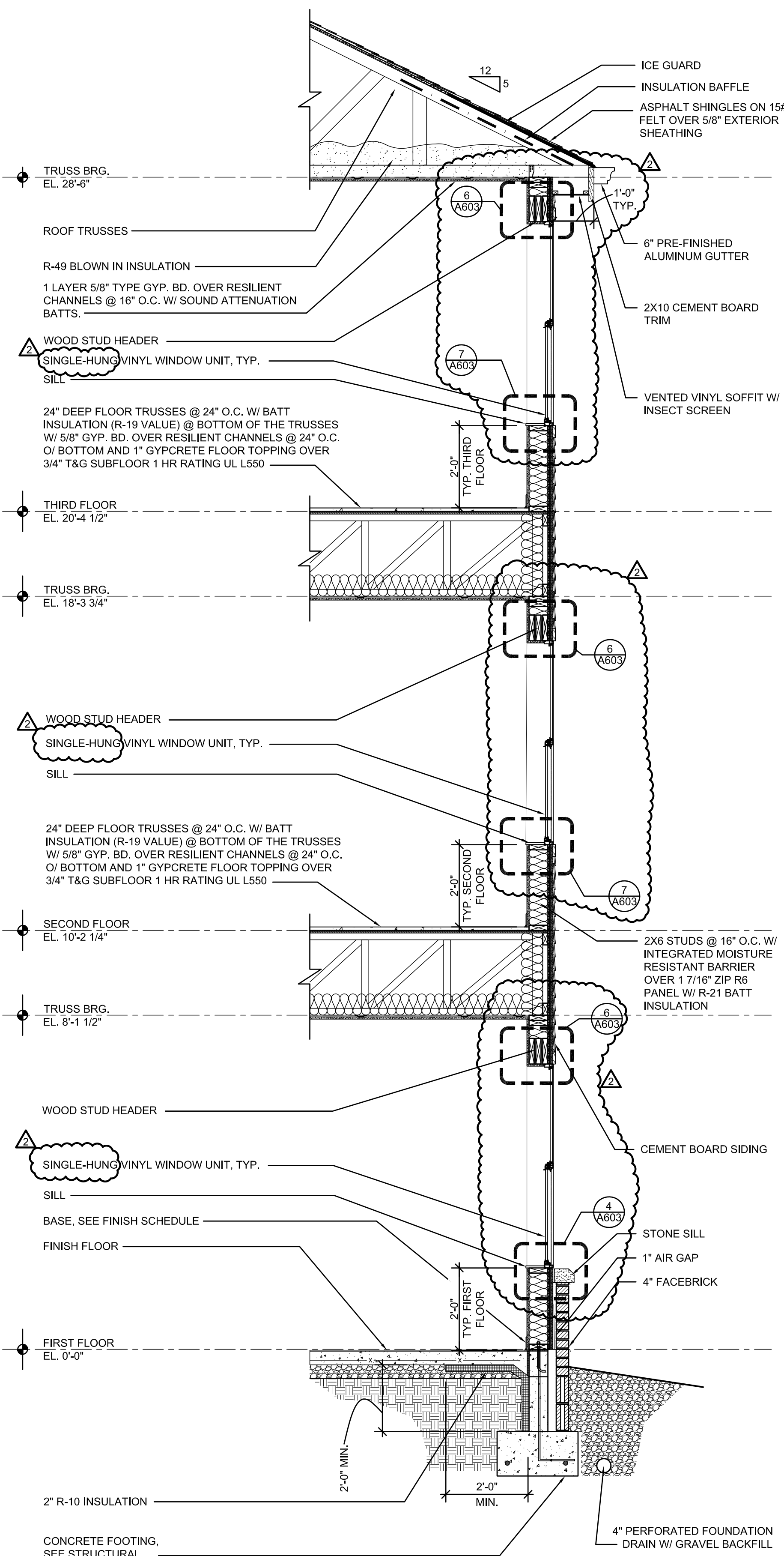
1. ALL GUTTERS ARE TO HAVE LEAF GUARDS.



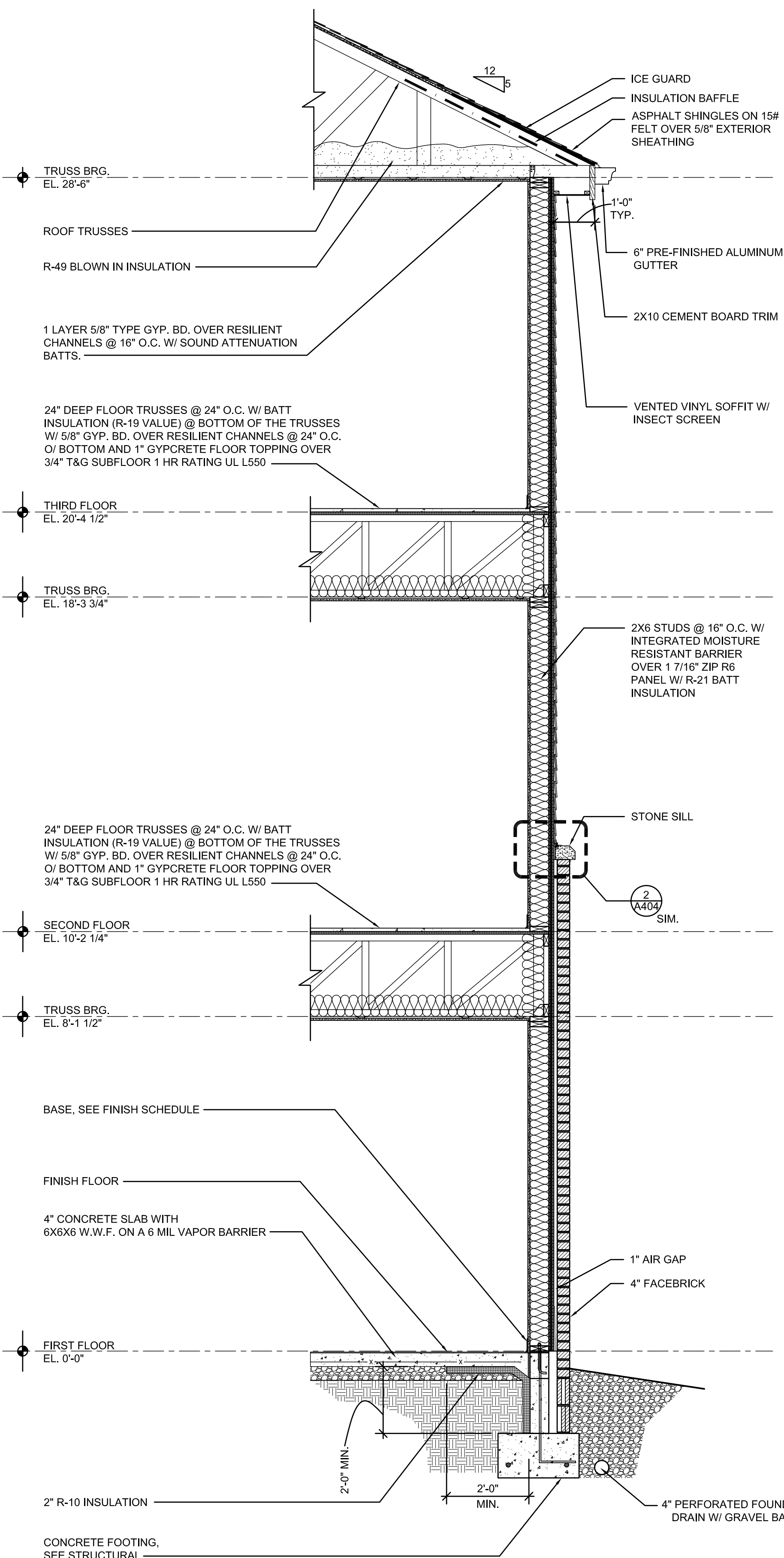
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**REVISIONS**

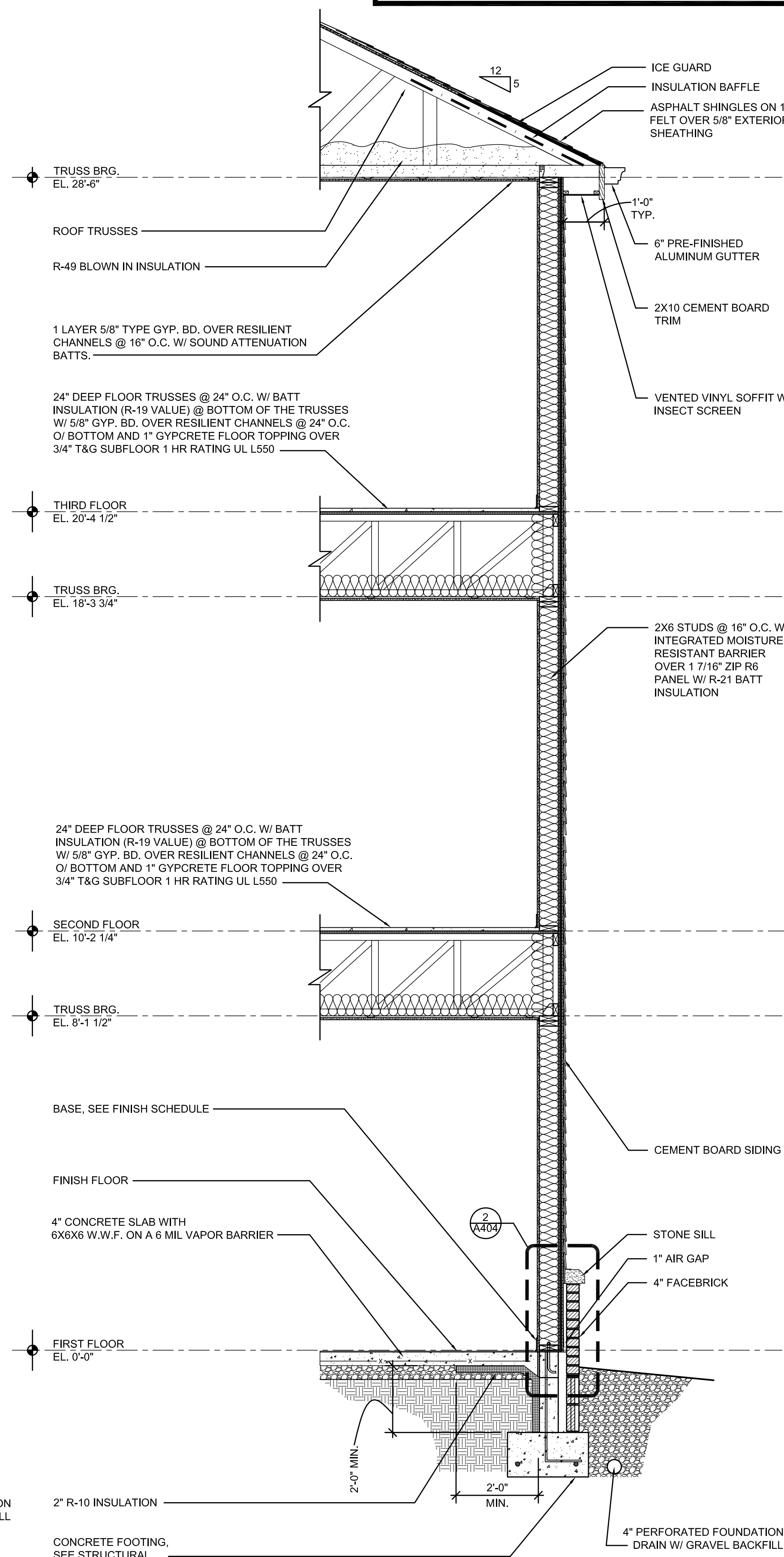
- ▲ BULLETIN 01 07/17/2023
- ▲ BULLETIN 02 09/19/2023



**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"

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**WALL SECTIONS**  
**GERMANTOWN CROSSING**  
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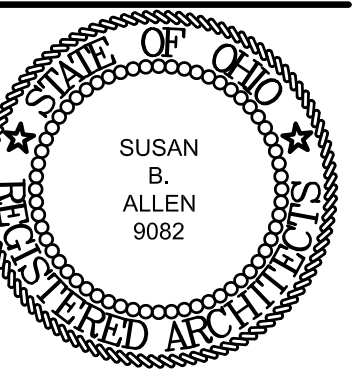
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82A21

PROJECT NUMBER

**A401**  
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WALL SECTIONS & TOWER DETAILS

GERMANTOWN CROSSING  
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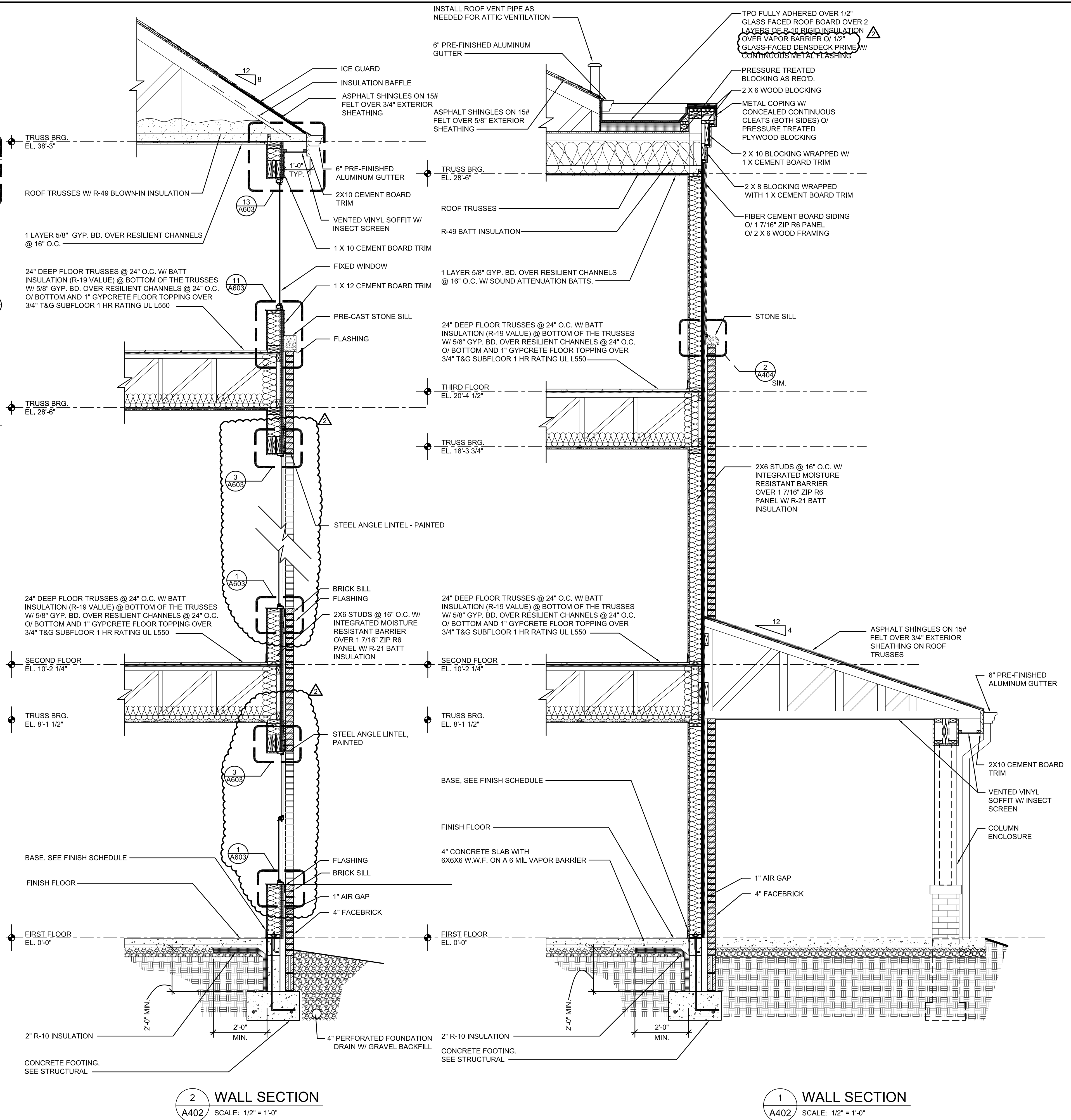
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82A21

PROJECT NUMBER

A402

DRAWING NUMBER



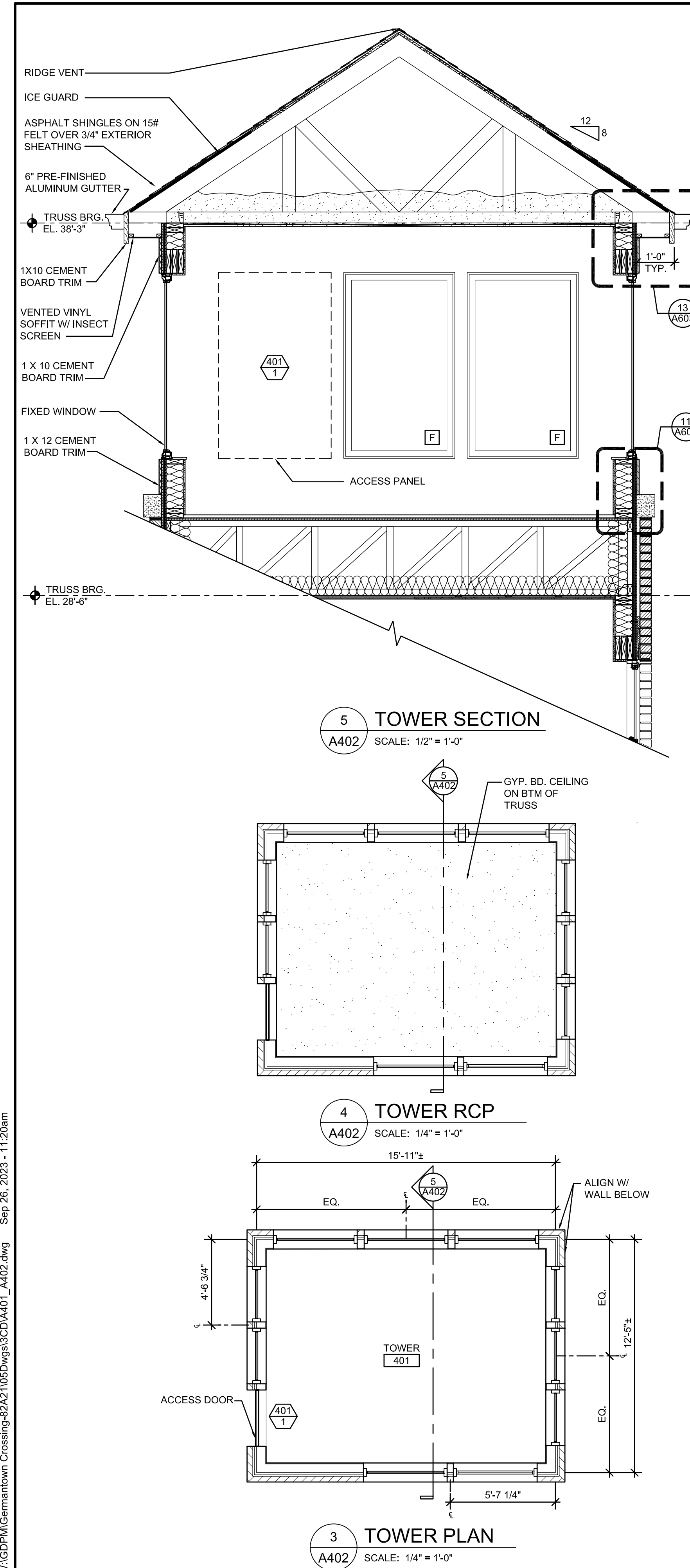
2 WALL SECTION  
A402 SCALE: 1/2" = 1'-0"

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

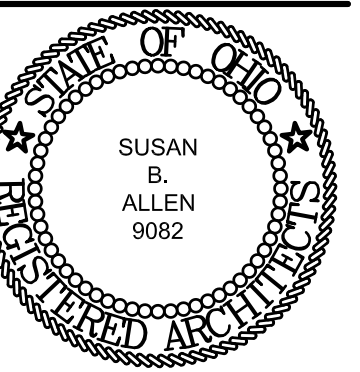
5 TOWER SECTION  
A402 SCALE: 1/2" = 1'-0"

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

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



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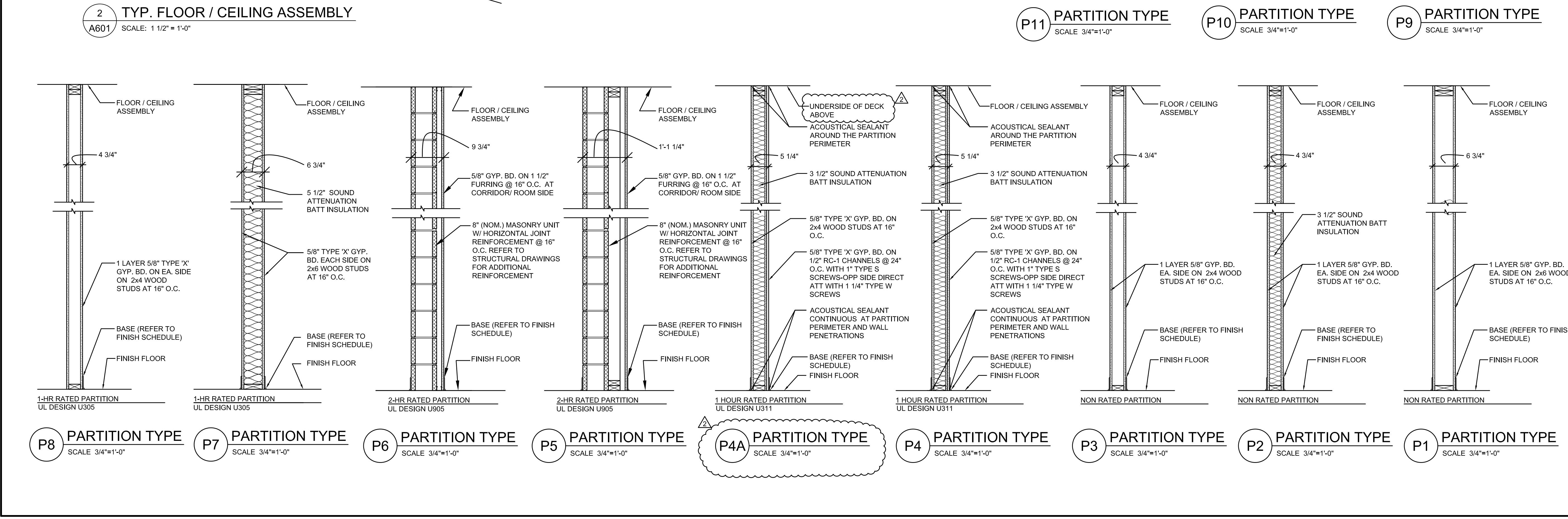
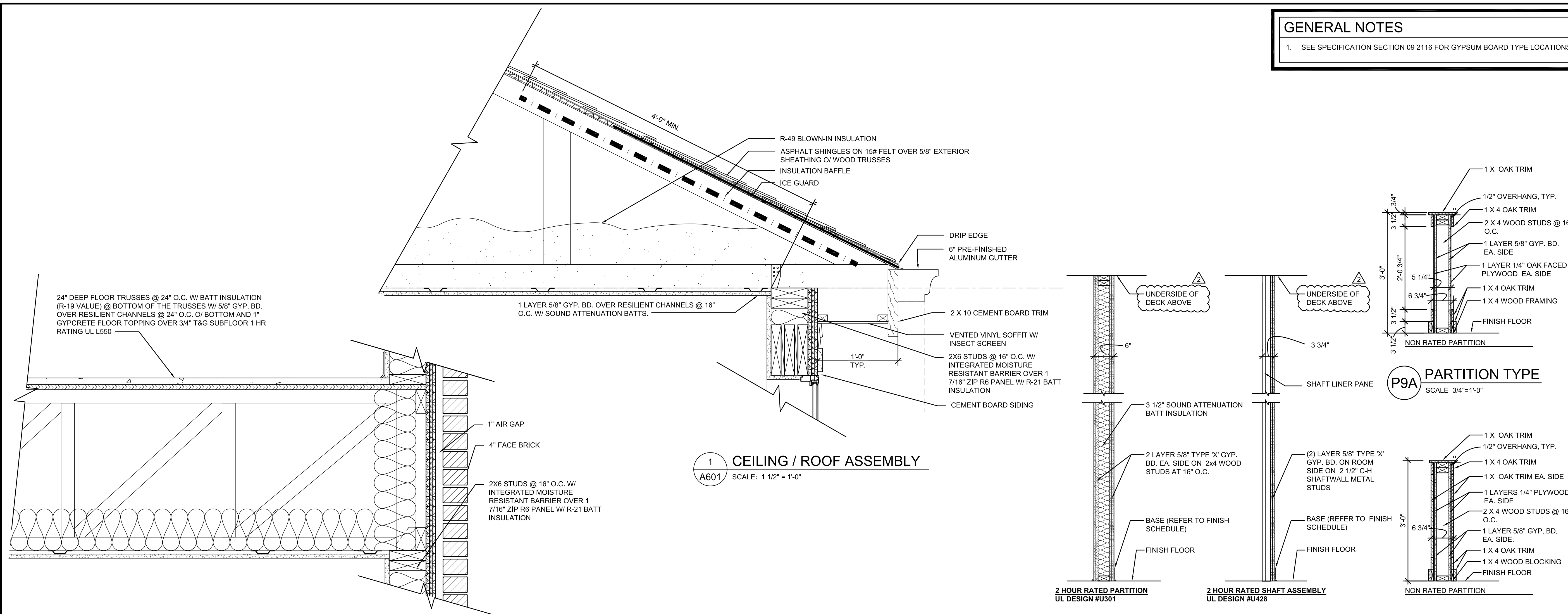
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- ▲ BULLETIN 02 09/19/2023

GENERAL NOTES

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



PARTITION TYPES  
GERMANTOWN CROSSING  
DAYTON OHIO



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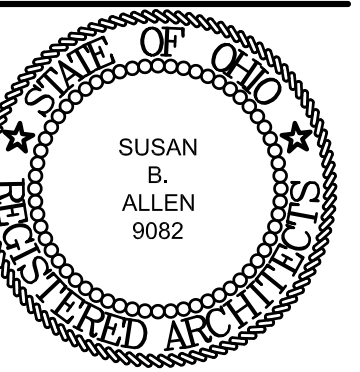
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82A21  
PROJECT NUMBER

A601  
DRAWING NUMBER

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### GLASS TYPES

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

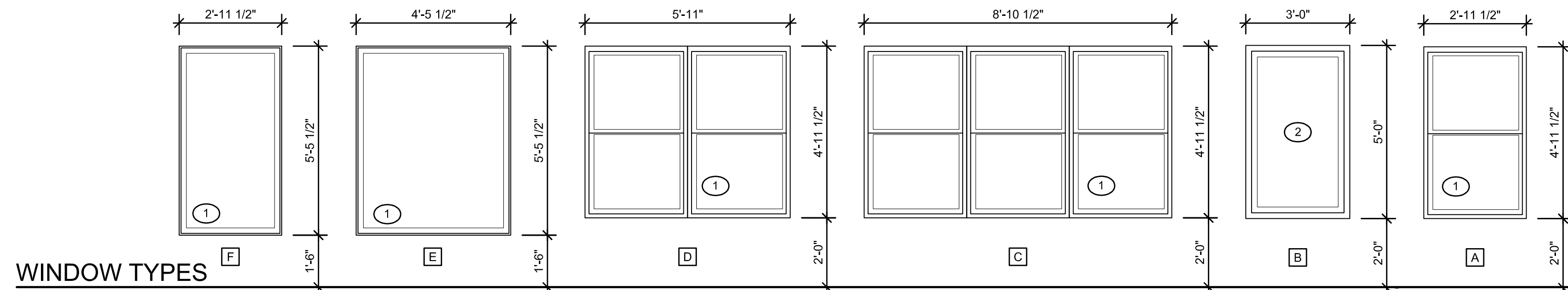
### GENERAL NOTES

1. SEE PARTITION TYPES ON A601 FOR ADDITIONAL WALL INFORMATION

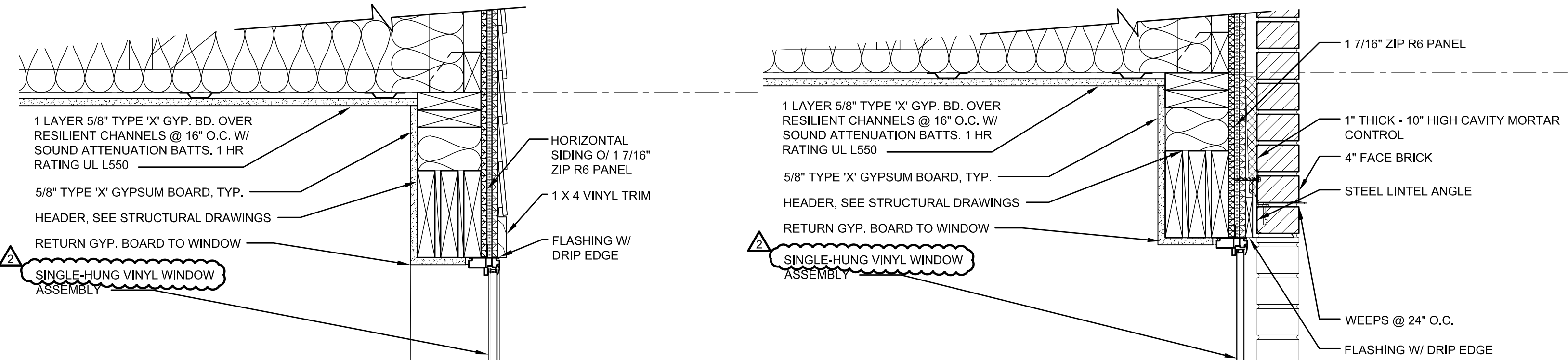
### WINDOW SCHEDULE

TYPE	SIZE (H X W)	MATERIAL	GLASS TYPE	HEAD	JAMB	SILL	REMARKS
<b>EXTERIOR WINDOWS</b>							
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	--
<b>INTERIOR WINDOWS</b>							
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.

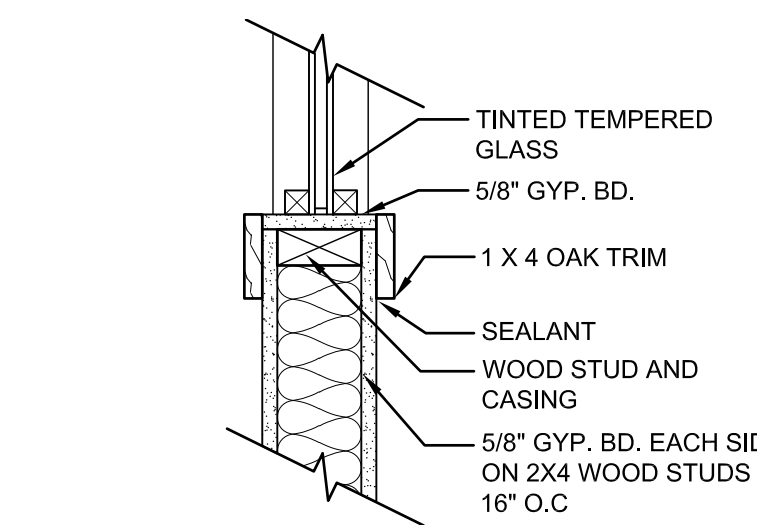


WINDOW TYPES

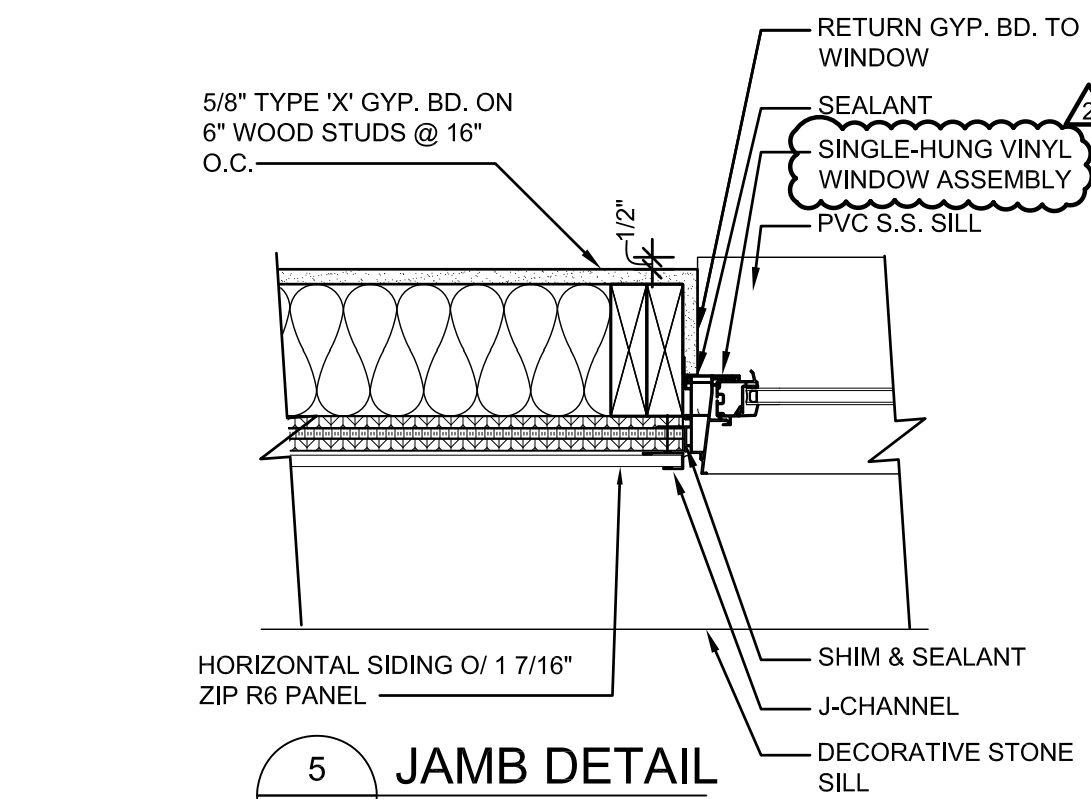


⑥ HEAD DETAIL  
A603 SCALE: 1 1/2" = 1'-0"

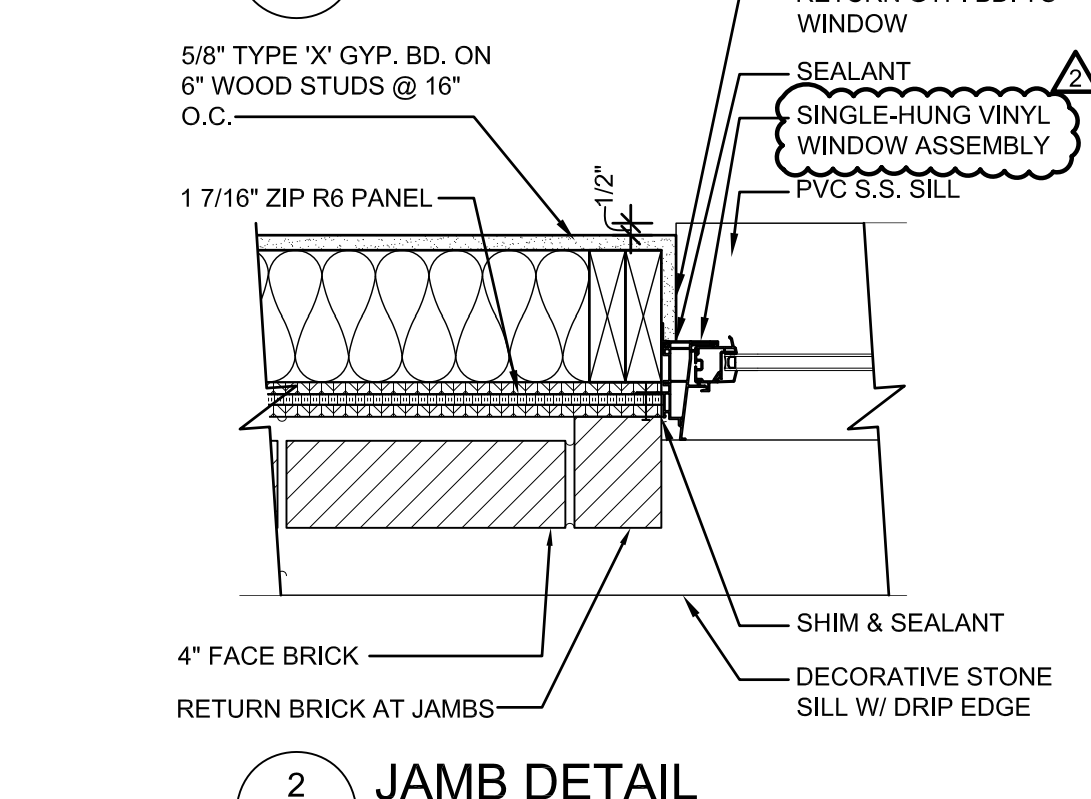
③ HEAD DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



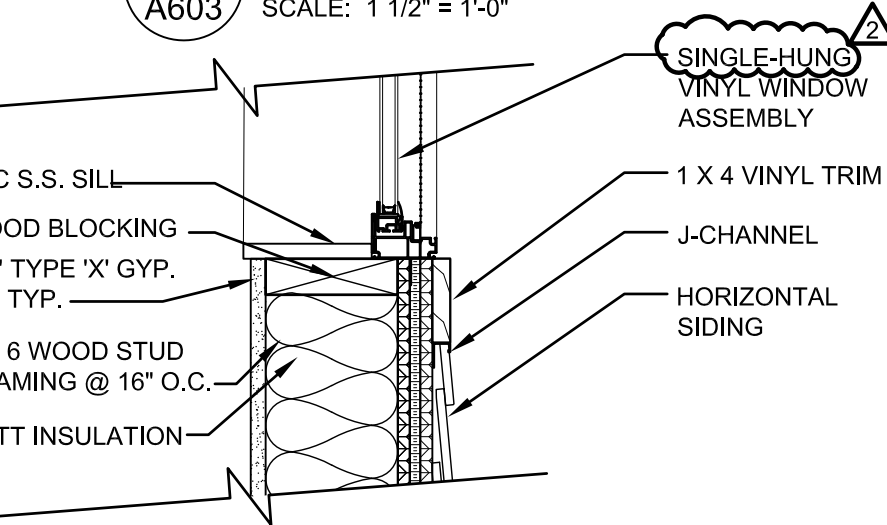
⑧ SILL DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



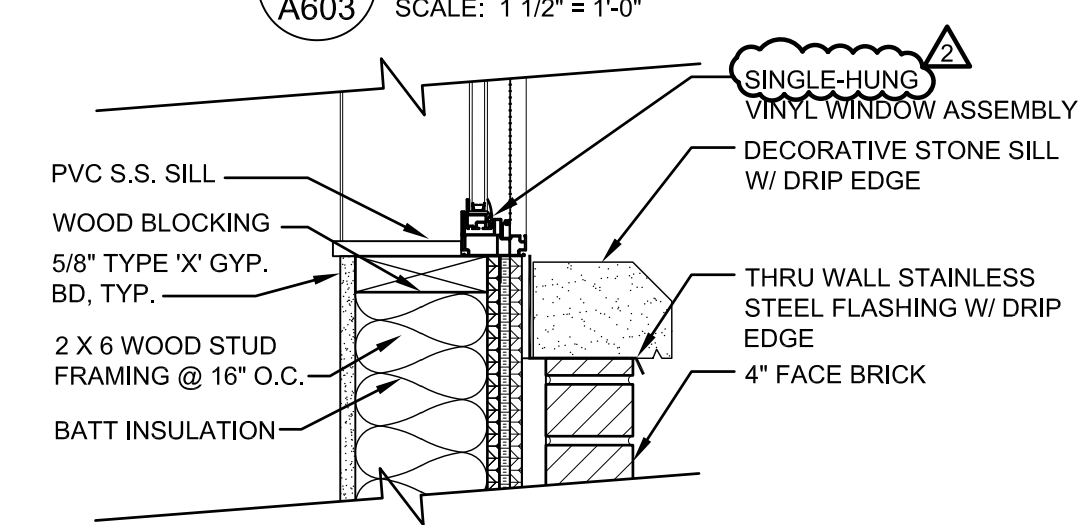
⑤ JAMB DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



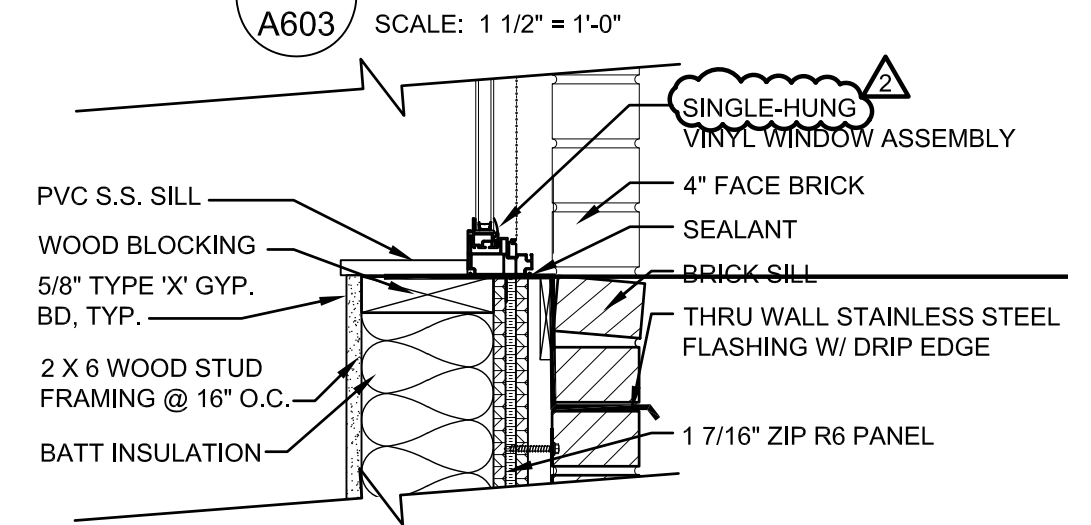
② JAMB DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



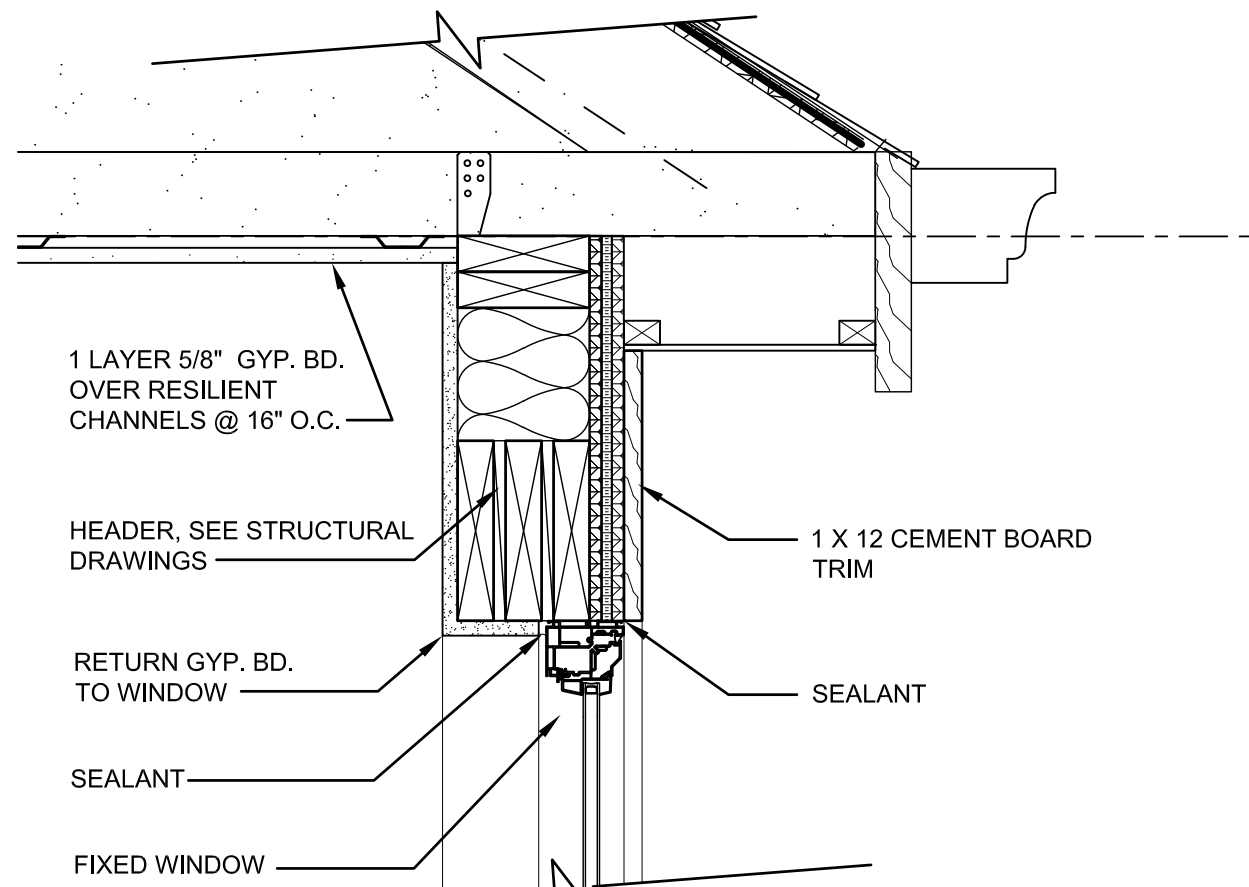
⑦ SILL DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



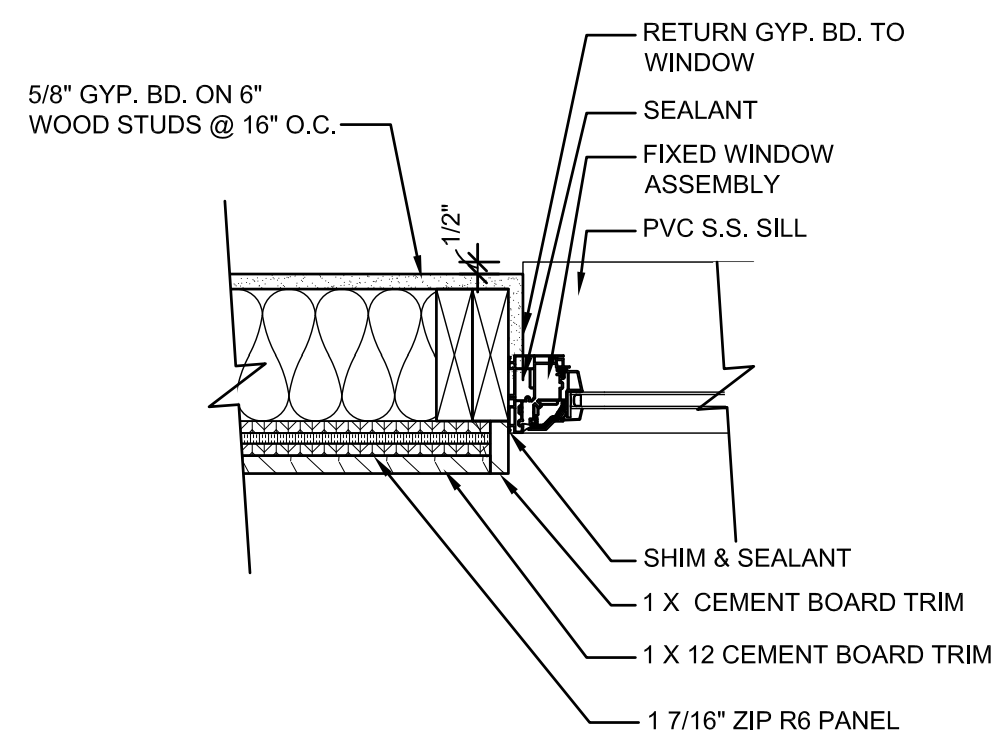
④ SILL DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



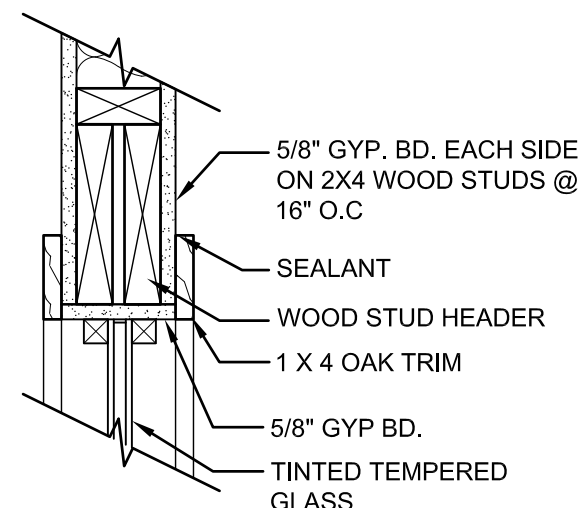
① SILL DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



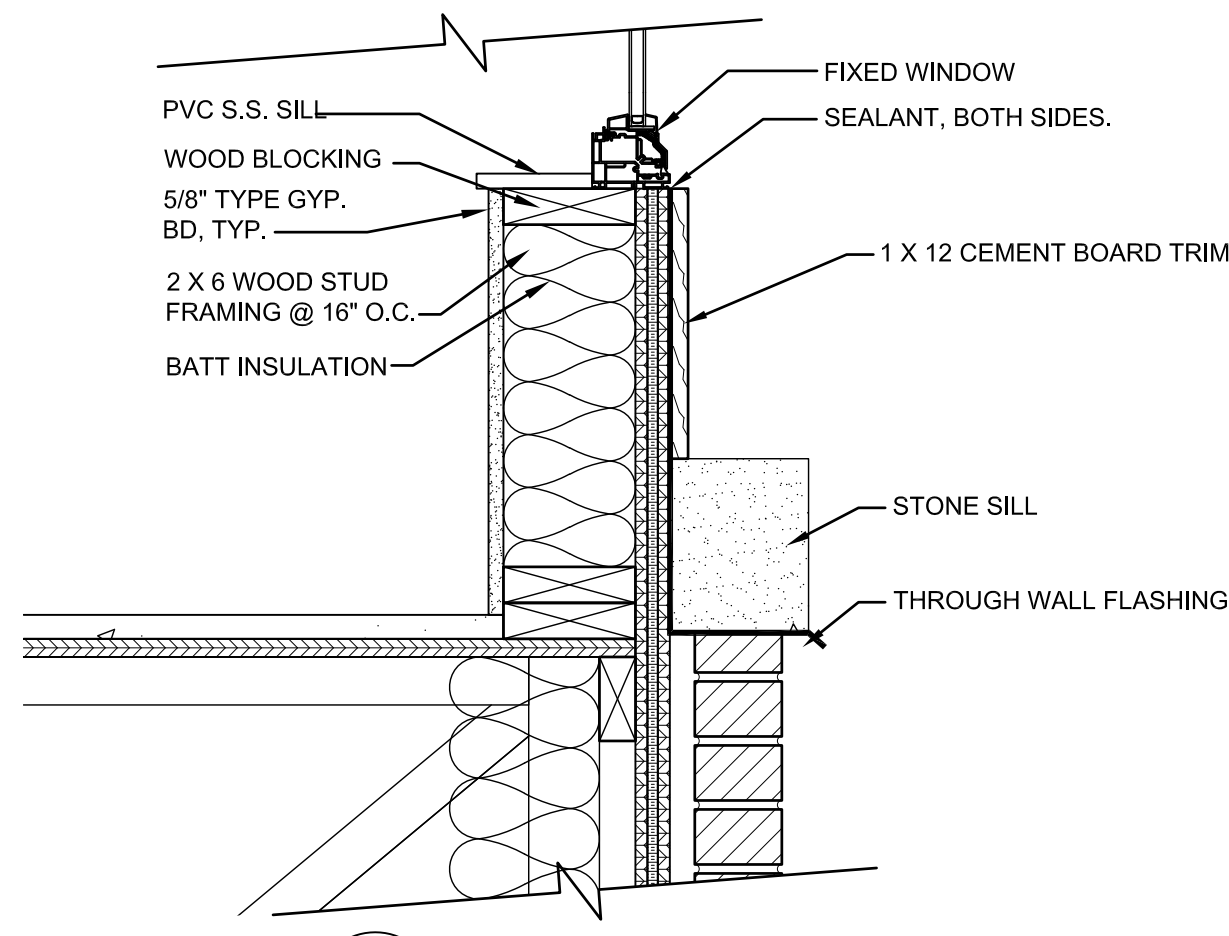
⑬ SILL DETAIL  
A603 SCALE: 1 1/2" = 1'-0"



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



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



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

WINDOW SCHEDULE & DETAILS  
 GERMANTOWN CROSSING  
 DAYTON OHIO



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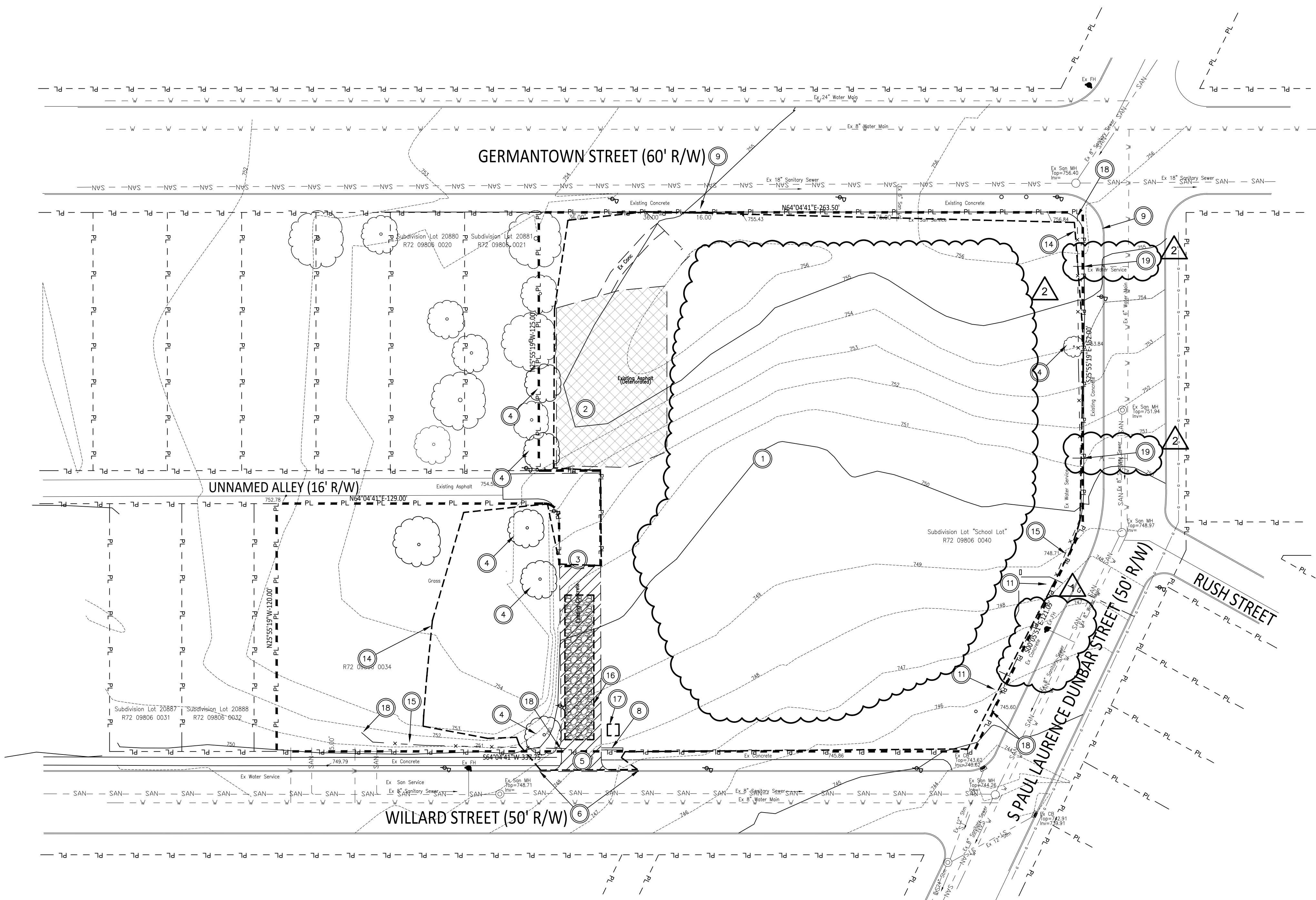
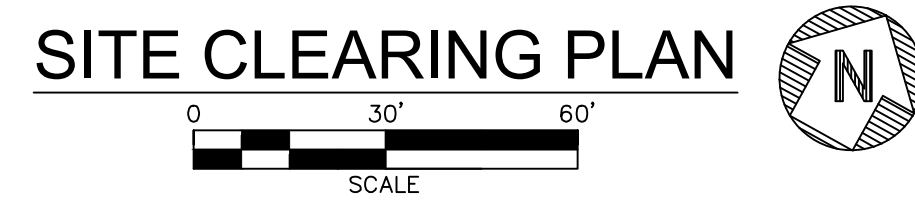
82A21

PROJECT NUMBER

A603

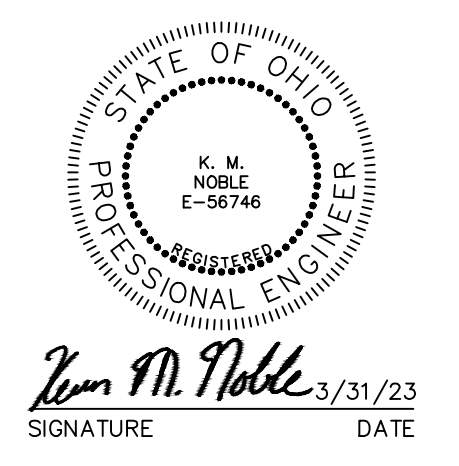
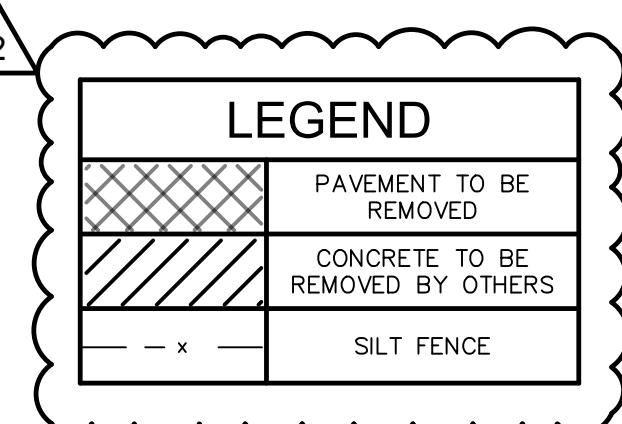
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- ### CONSTRUCTION NOTES
1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL TRAFFIC FLOW.
  2. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION 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 SEED 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 HAS BEEN 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.
  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. NOT USED.
  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. NOT USED.
  11. EXISTING CONCRETE APRON AND ASSOCIATED CURBING TO BE REMOVED.
  12. NOT USED.
  13. NOT USED.
  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.
  19. THE EXISTING 2" WATER SERVICE IS TO BE ABANDONED. REMOVE PIPING BACK TO PROPERTY LINE AND CAP. CONTACT CHRIS HOLMES AT [chris.holmes@daytonohio.gov](mailto:chris.holmes@daytonohio.gov) FOR CUT AND PLUG QUOTES.



#### REVISIONS

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**SITE CLEARING PLAN**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**



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**CONSTRUCTION NOTES**

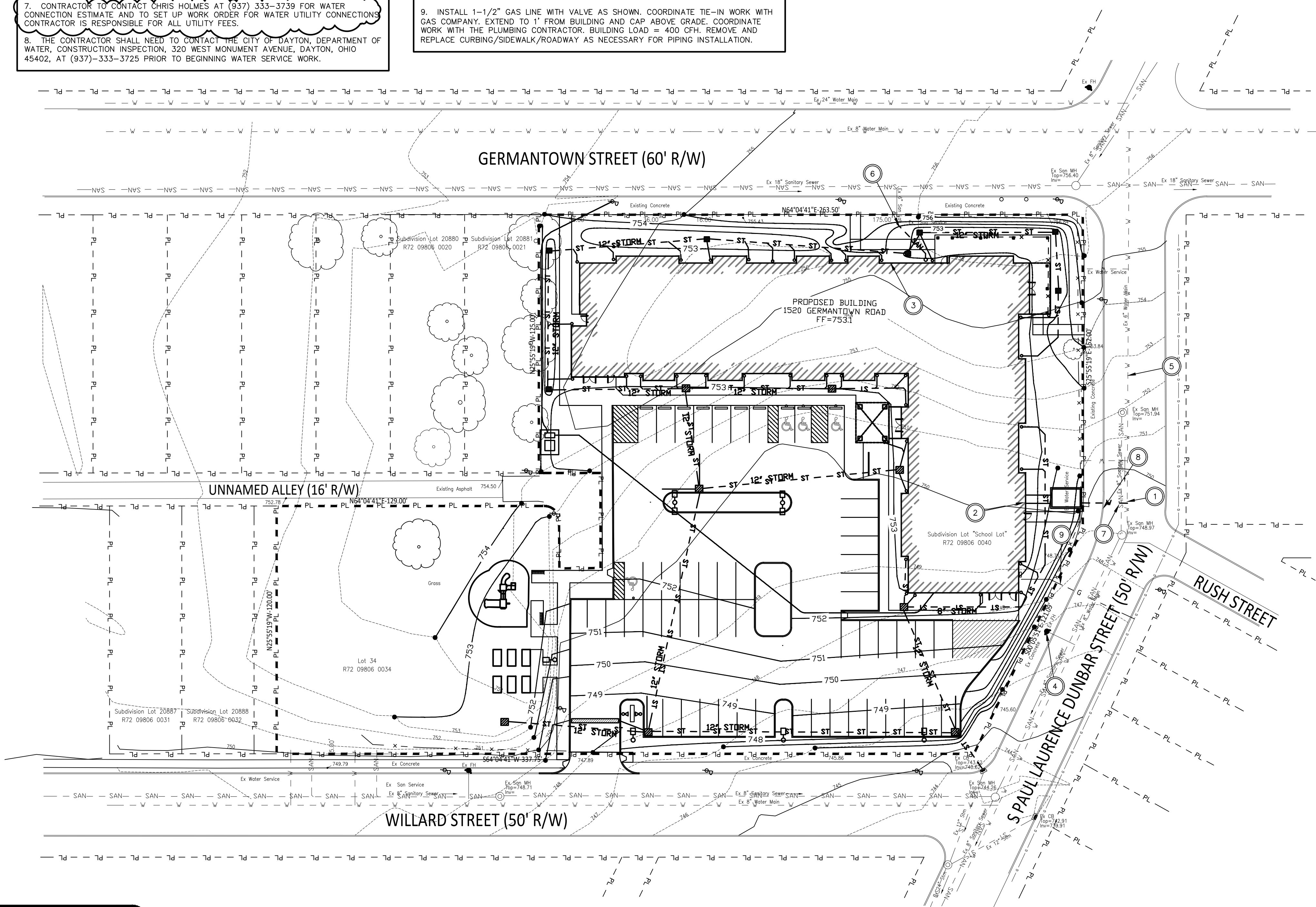
1. THE EXISTING UNDERGROUND INFORMATION AND TOPOGRAPHIC INFORMATION IS BASED ON THE PROJECT SURVEY AND AVAILABLE DATA. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE 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 CHRIS HOLMES AT (937) 333-3739 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**

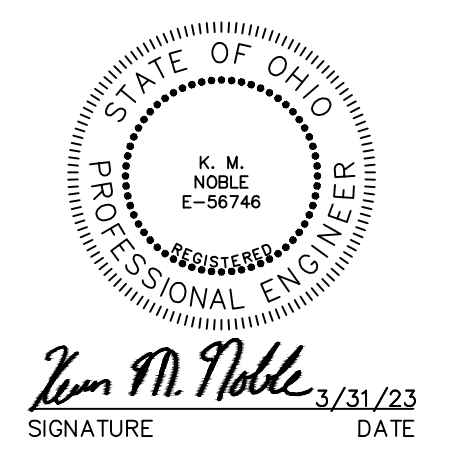
1. INSTALL 4" TAPPING SLEEVE AND VALVE AND EXTEND COMBINATION 4" FIRE/WATER LINE TO PROPOSED WATER VAULT. INSTALL 10' X 15' CONCRETE VAULT AT 1' OFFSET FROM PROPERTY LINE. SEE DETAILS ON SHEET C600. SAW CUT ROAD TO FULL DEPTH PRIOR TO ITS REMOVAL AND REPLACE PER CITY OF DAYTON STANDARDS. EXTEND 4" STORM LINE AND TIE INTO STORM BASIN "O" 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 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).



**SITE UTILITY PLAN**



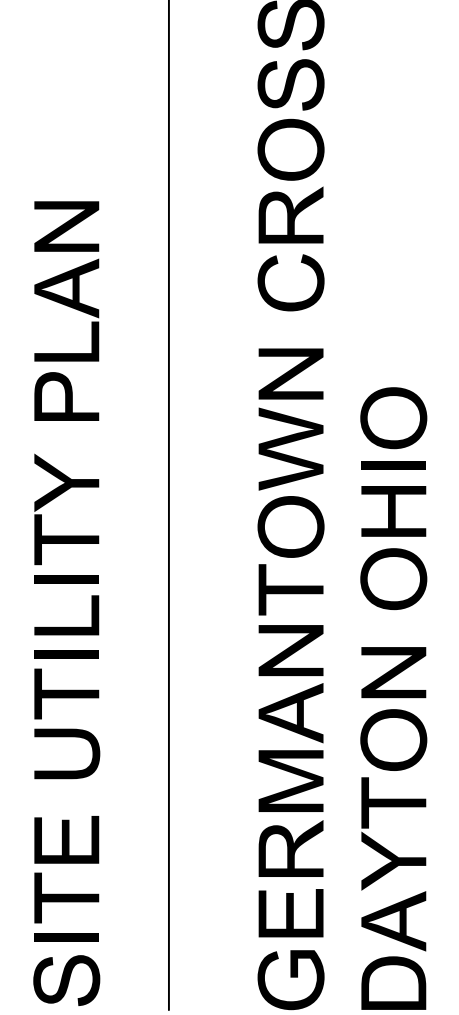
REVISIONS

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▲	BULLETIN 02	09/19/2023

**SITE UTILITY PLAN**

**GERMANTOWN CROSSING**

**DAYTON OHIO**



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**TURNING VISIONS INTO REALITY**

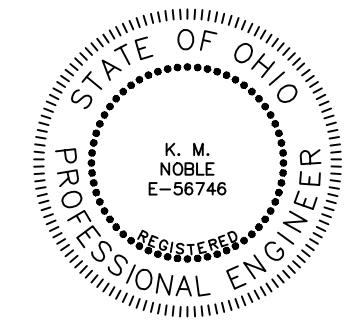
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DATE

82A21  
PROJECT NUMBER

**C200**  
DRAWING NUMBER

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*Ken M. Noble* 3/31/23  
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SITE PAVING PLAN

GERMANTOWN CROSSING  
DAYTON OHIO



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PROJECT NUMBER

C300

DRAWING NUMBER

CONSTRUCTION NOTES

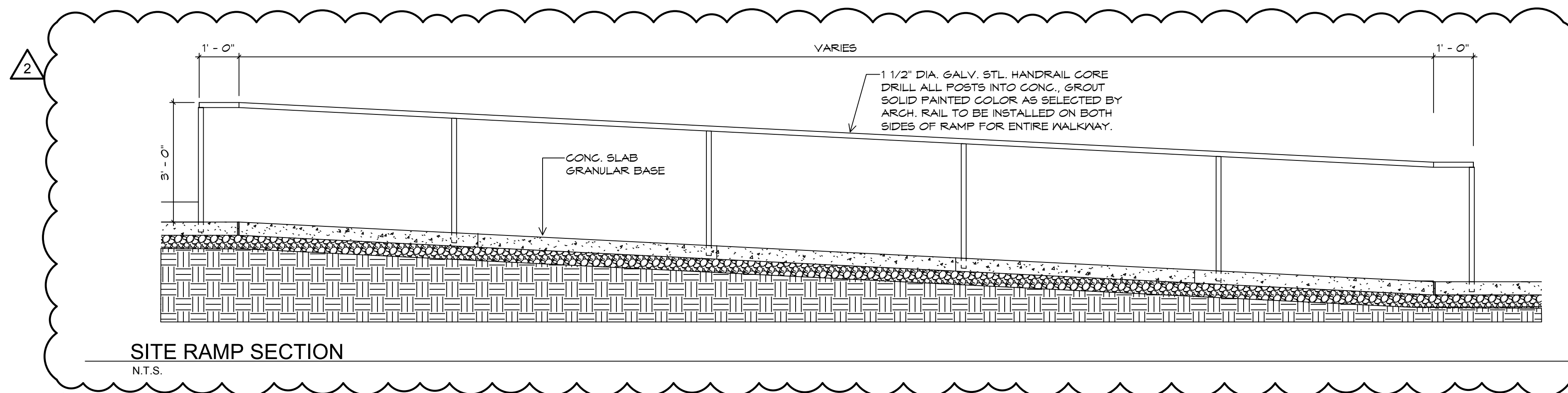
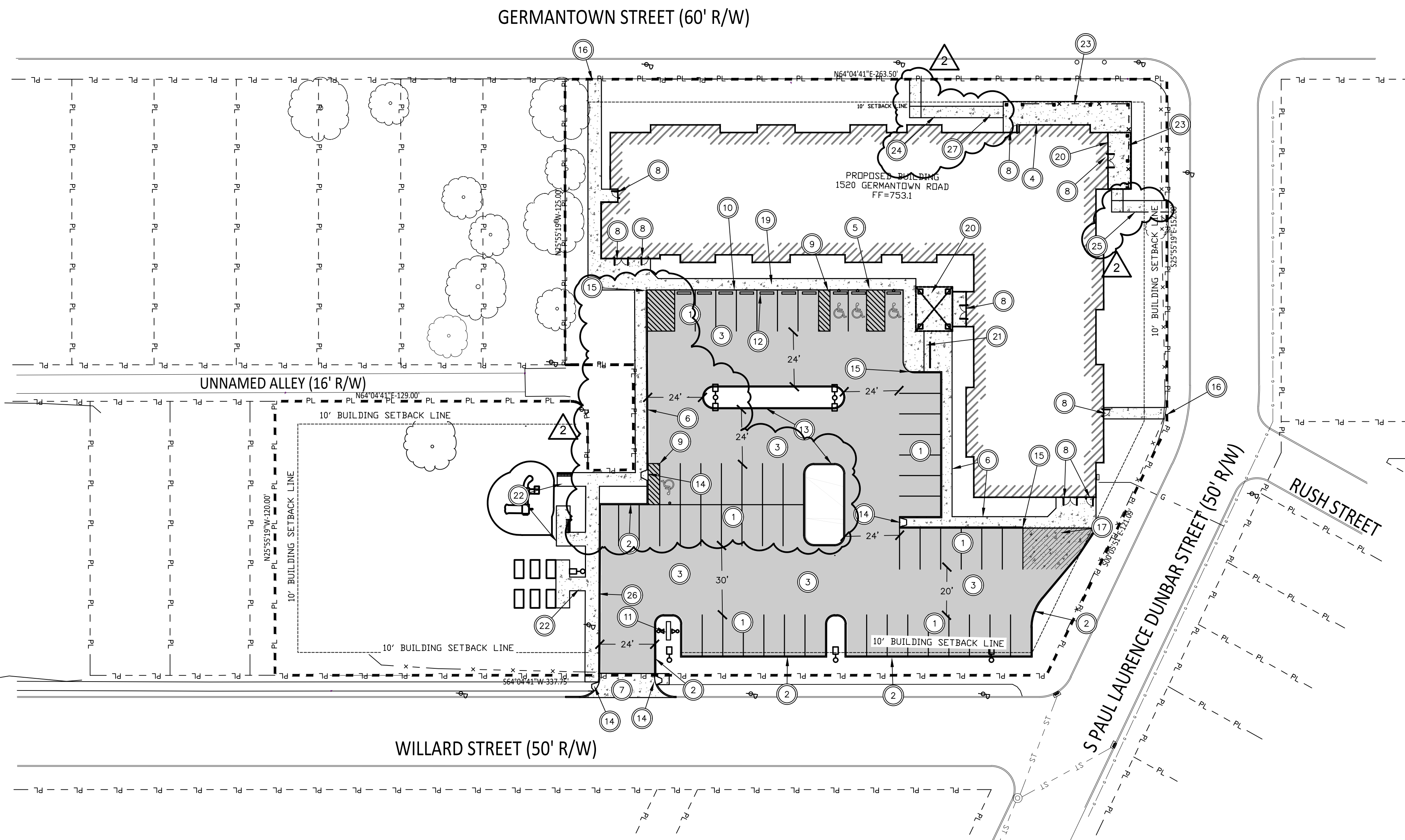
1. CONTRACTORS SHALL SCHEDULE THEIR OPERATIONS AND CARRY OUT THE WORK IN A MANNER TO CAUSE THE LEAST DISTURBANCE AND/OR INTERFERENCE WITH NORMAL FLOW OF THE TRAFFIC.
2. ALL PAVEMENT SHALL BE GOVERNED BY THE LATEST EDITION OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS.
3. ALL POINTS OF CONNECTION OF 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 48' LONG (12' TO NORTH AND 36' TO EAST) X 5' WIDE CONCRETE RAMP WITH 5' X 5' LANDING AREA. PROVIDE WITH RAILING ON EACH SIDE. MATCH TOP OF CONCRETE SIDEWALK = 756.0 AND TOP OF PROPOSED CONCRETE PORCH = 752.9. LANDING AREA = 755.0.
25. INSTALL 24' LONG (20' TO THE EAST AND 4' TO THE SOUTH) X 5' WIDE CONCRETE RAMP WITH 5' X 5' LANDING AREA. PROVIDE WITH RAILING ON EACH SIDE. MATCH TOP OF CONCRETE SIDEWALK = 754.4 AND TOP OF PROPOSED CONCRETE PORCH = 752.9. LANDING AREA = 752.7 (LOW POINT).
26. PROPOSED 6' WIDE INTEGRATED CURB AND SIDEWALK.
27. LOW POINT IN SIDEWALK IS 4' FROM EDGE OF PORCH AT 752.7.

LEGEND

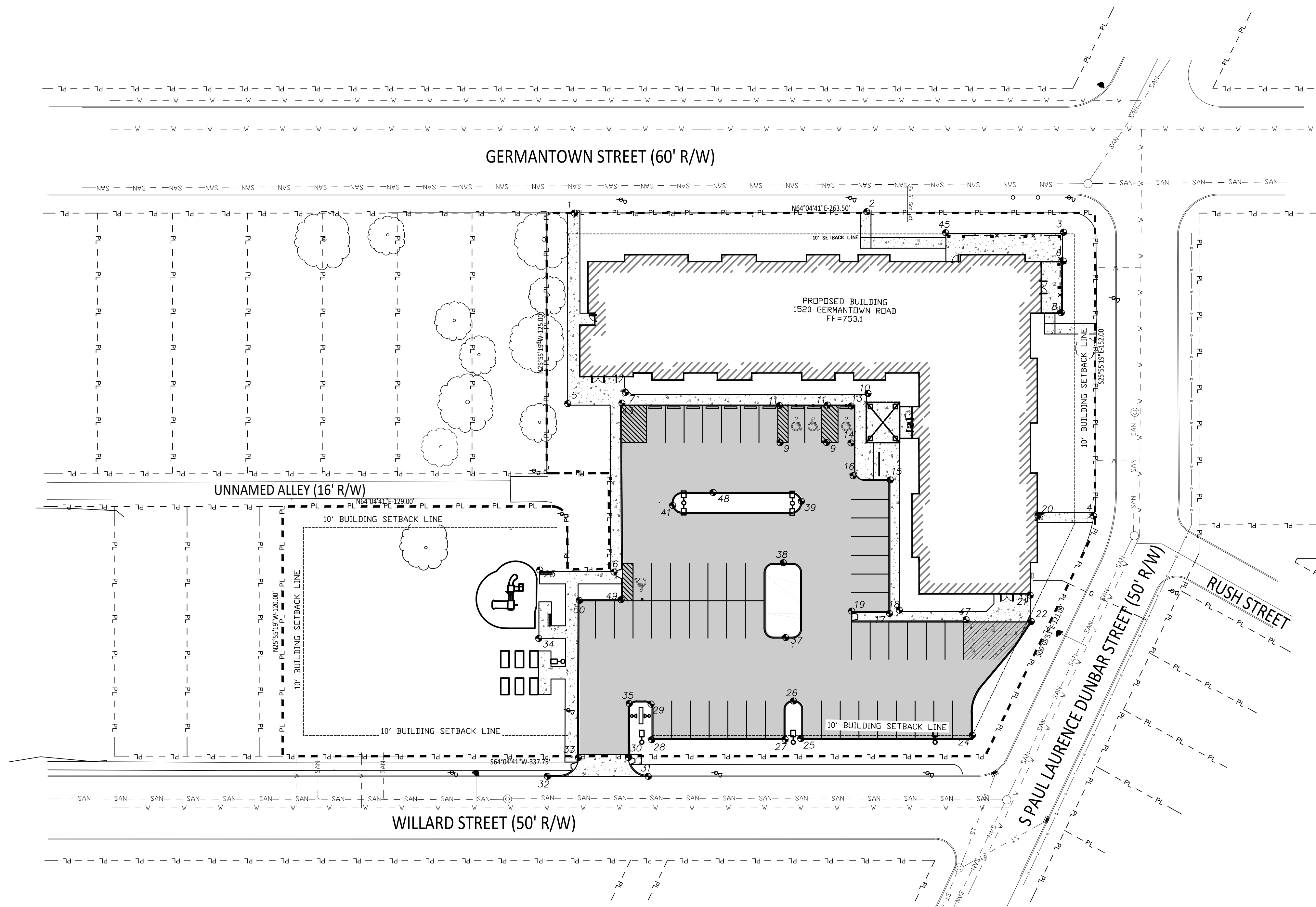
	PROPOSED ASPHALT
	PROPOSED CONCRETE PAVEMENT



SITE PAVING PLAN

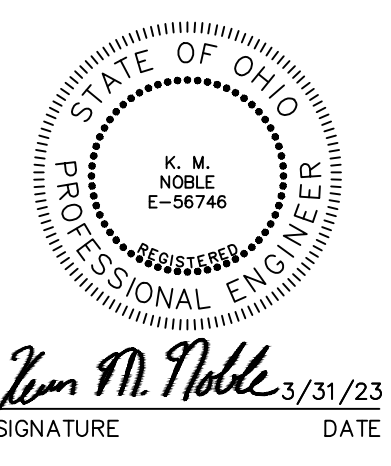


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POINT #	DESCRIPTION	ELEVATION
1	END OF SIDEWALK	MATCH EXISTING
2	END OF SIDEWALK	MATCH EXISTING
3	CORNER OF SIDEWALK	752.9
4	END OF SIDEWALK	MATCH EX.
5	CORNER OF SIDEWALK	752.8
6	EDGE OF PAVEMENT	752.9
7	CORNER OF SIDEWALK	752.9
8	EDGE OF PAVEMENT	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
37	MID POINT OF ISLAND	751.6
38	MID POINT OF ISLAND	752.2
39	MID POINT OF ISLAND	752.5
41	MID POINT OF ISLAND	752.6
43	TOP OF SIDEWALK	752.8
45	CORNER OF SIDEWALK	752.9
46	END OF HC RAMP	752.5
47	EDGE OF PAVEMENT	751.9
48	LOW POINT	752.0 (LP)
49	CORNER OF PAVEMENT	751.8
50	CORNER OF PAVEMENT	751.7

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



*Ken M. Noble* 3/31/23  
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**SITE LAYOUT PLAN**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**

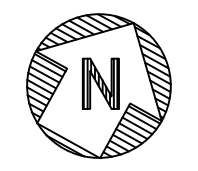
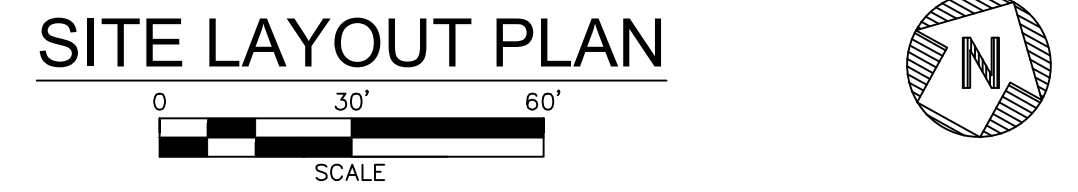


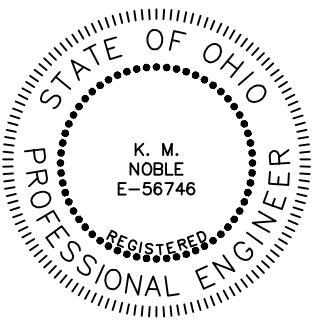
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STORM SEWER AND GRADING PLAN

GERMANTOWN CROSSING  
DAYTON OHIO



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PROJECT NUMBER

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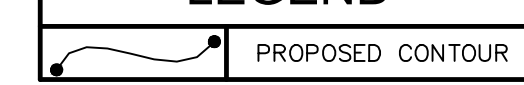
CONSTRUCTION NOTES

- 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 COARSE. TYPICAL OF THREE AT EACH BASIN IN THE PARKING LOT.
- EXTEND 4" DRAIN LINE AND TIE INTO THE BUILDING'S FOUNDATION DRAIN.

LEGEND

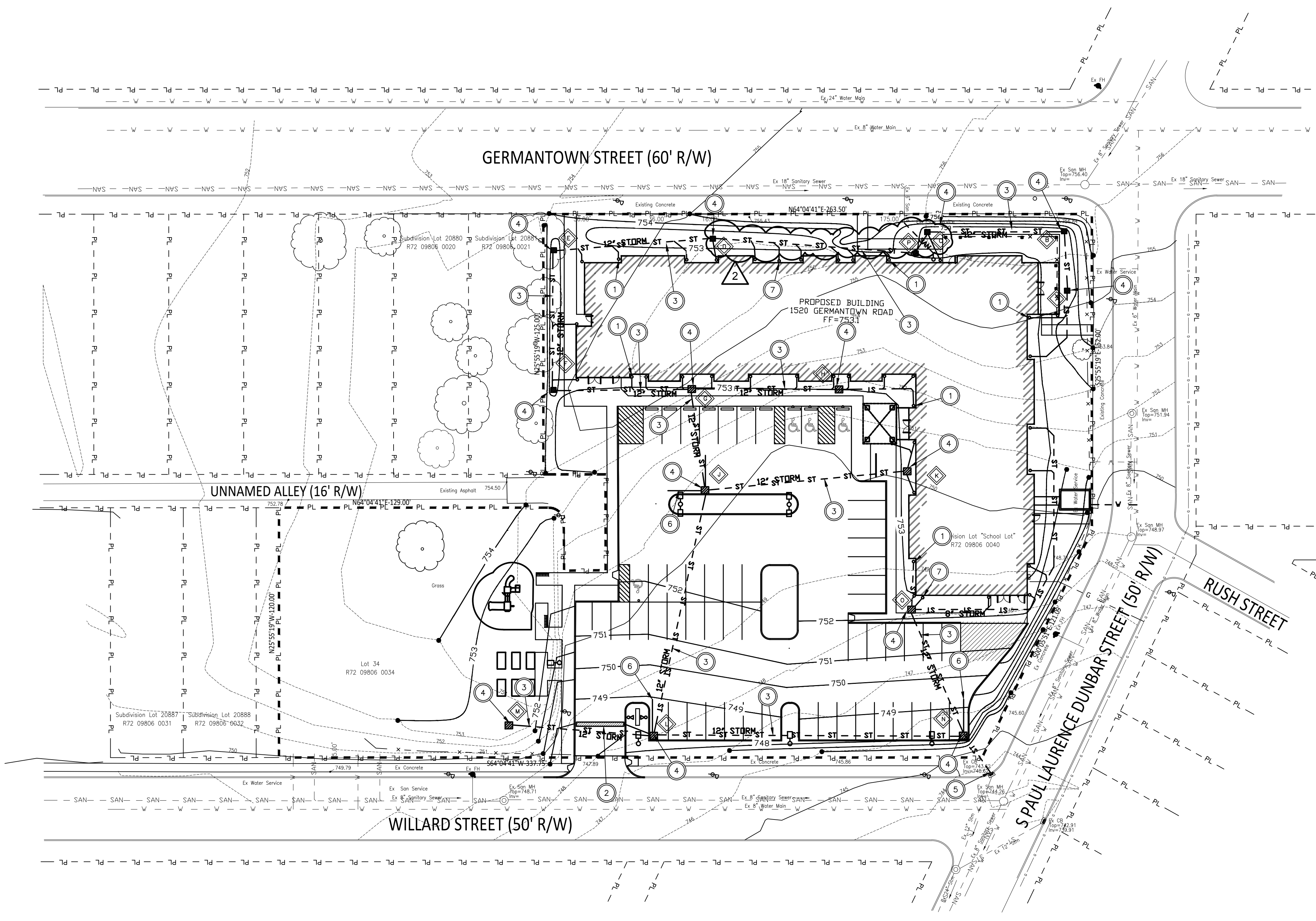


SEWER SUMMARY

<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 &amp; S) = 748.6</p>	<p>PROP. INLET BASIN "J" PROP. CASTING = 752.0 PROP. 12" INV (E, N &amp; S) = 745.6</p>
<p>PROP. INLET BASIN "C" PROP. CASTING = 752.4 PROP. 12" INV (SW &amp; E) = 748.2 PROP. 6" INV (S) = 750.0</p>	<p>PROP. INLET BASIN "K" PROP. CASTING = 752.6 PROP. 12" INV (E) = 748.8 PROP. 6" INV (N&amp;S) = 750.8</p>
<p>PROP. INLET BASIN "E" PROP. CASTING = 752.6 PROP. 12" INV (E &amp; W) = 747.7 PROP. 4" INV (S) = 749.0</p>	<p>PROP. INLET BASIN "L" PROP. CASTING = 748.3 PROP. 12" INV (E, W &amp; N) = 744.3 PROP. 8" INV (W) = 746.5</p>
<p>PROP. INLET BASIN "F" PROP. CASTING = 752.6 PROP. 12" INV (N &amp; E) = 746.5</p>	<p>PROP. YARD BASIN "M" PROP. CASTING = 752.1 PROP. 12" INV (E) = 748.1</p>
<p>PROP. INLET BASIN "G" PROP. CASTING = 752.6 PROP. 12" INV (E, S &amp; W) = 746.0</p>	<p>PROP. INLET BASIN "N" PROP. CASTING = 748.1 PROP. 12" INV (W &amp; N &amp; SE) = 741.0</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) = 748.0</p>
	<p>PROP. INLET BASIN "P" PROP. CASTING = 752.4 PROP. 12" INV (NE &amp; W) = 748.0</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.

SITE HAS MORE THAN 20% NET REDUCTION IN VOLUMETRIC RUNOFF COEFFICIENT  
 $R_v = 0.05 + 0.9(i)$   
 $i$  (EXISTING) = 0.70  
 $i$  (PROPOSED) = 0.53 = 25% REDUCTION



STORM SEWER AND GRADING PLAN



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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. SMO - SMOKE DETECTOR, PHOTOELECTRIC TYPE, CEILING MOUNTED.
	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.		BATT - SMOKE ALARM, 120V WITH BATTERY BACKUP, PHOTOELECTRIC TYPE, CEILING MOUNTED. BATT/520 - SMOKE ALARM, 120V WITH BATTERY BACKUP, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 520HZ SOUNDER BASE BATT/CO/520 - COMBINATION SMOKE CARBON MONOXIDE ALARM, 120V WITH BATTERY BACKUP, PHOTOELECTRIC TYPE, CEILING MOUNTED, WITH LOW-FREQUENCY 520HZ SOUNDER BASE
	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 NOTIFICATION DEVICE. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED. SUBSCRIPT INDICATES TYPE. NO - COMBINATION HORN / STROBE. V - VISUAL-ONLY
	SPECIAL PURPOSE OUTLET. REFER TO DRAWINGS FOR DESCRIPTION. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.		①C - FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (CONTROL TYPE).
	BOX AROUND DEVICE INDICATES SURFACE MOUNTED IN 4" SQUARE BOX WITH EXPOSED WORK COVER UNLESS OTHERWISE NOTED.		①I - FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (INDIVIDUAL TYPE).
	STANDARD STEEL JUNCTION BOX WITH COVER. LOCATE AND CONNECT AS DIRECTED.		①M - FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE (MONITOR TYPE).
	POINT OF CONNECTION TO ELECTRIFIED EQUIPMENT. VERIFY EXACT LOCATION WITH RESPECTIVE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.		FACP - FIRE ALARM SYSTEM CONTROL PANEL.
	AD - AUTOMATIC DOOR (120V).		FARP - FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL.
	HD - HAND DRYER (1500W,120V).		TS - 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.
	TCP - TEMPERATURE CONTROL PANEL (120V).		FS - 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.
	MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR. CONNECT AS DIRECTED BY MOTOR SUPPLIER.		FV - 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. 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.		DB - DOORBELL. REFER TO DETAIL.
	MANUAL MOTOR STARTER WITH NEON PILOT LIGHT. ALLEN-BRADLEY #600TQ216. MOUNT AT 46" AFF TO CENTERLINE UNLESS OTHERWISE NOTED.		DBS - DOORBELL CHIME AND STROBE. REFER TO DETAIL.
	UTILITY METER. REFER TO DETAILS.		CR - CARD READER (BY ACCESS CONTROL VENDOR). PROVIDE FLUSH-MOUNTED 1-GANG COMMUNICATIONS OUTLET BOX AT 46" AFF WITH 1" C STUBBED INTO ACCESSIBLE CEILING. USE 5"SQ X 2-7/8" DEEP BACK BOX (BY RANDL OR EQUAL). COORDINATE REQUIREMENTS WITH ACCESS CONTROL VENDOR.
	PAN. 208/120V,3ø,4W OR 208/120V,1ø,3W PANELBOARD. REFER TO PANELBOARD SCHEDULE AND/OR SPECIFICATIONS FOR DETAILS.		
	DIST. PAN. 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. TORC #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

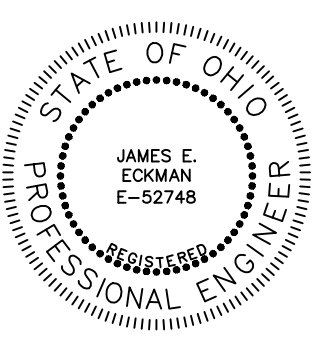
SYMBOL	DESCRIPTION
#"	NUMBER INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFG	BELOW FINISHED GRADE
"c"	SUBSCRIPT "c" INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP TO CENTERLINE.
CLG	CEILING
DP	DISTRIBUTION PANEL
EC	ELECTRICAL CONTRACTOR
EMT	GALVANIZED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

### ELECTRICAL GENERAL NOTES

- THE GENERAL NOTES LISTED HERE APPLY TO ALL ELECTRICAL 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.
- COORDINATE ELECTRICAL WORK WITH ALL CONTRACTORS ON SITE (GENERAL TRADES, PLUMBING, FIRE PROTECTION, HVAC, ETC) PRIOR TO COMMENCEMENT OF DEMOLITION/CONSTRUCTION WORK.
- 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.
- PHASING - SEE DIVISION 1 PROJECT SPECIFICATION PHASING DOCUMENTS FOR SPECIFIC PHASING INSTRUCTIONS. COORDINATE SHUT-DOWN OF ANY UTILITY IN ADVANCE WITH THE OWNER.
- MAINTAIN REQUIRED RIGGING ACCESS CLEARANCES. COORDINATE CLEARANCE REQUIREMENTS WITH OTHER TRADES.
- E.C. IS TO COORDINATE ALL MASONRY PENETRATION LOCATIONS AND SIZES WITH G.C.
- 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.
- 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 THAN 270° WITHOUT THE INSTALLATION OF A PULL BOX.
- PROVIDE FIRESEALING OF ALL OPENINGS THROUGH FIRE RATED WALLS AND ASSEMBLIES. SEE DETAIL SHEETS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 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.
- REFER TO FLOOR PLANS FOR LOCATIONS AND QUANTITIES OF ACCESSIBLE UNITS AND SIGHT/HEARING UNIT.



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

REVISIONS	
▲	BULLETIN 01 - 07/17/2023
▲	BULLETIN 02 - 09/19/2023

NOTES & LEGENDS - ELECTRICAL

GERMANTOWN CROSSING  
DAYTON OHIO



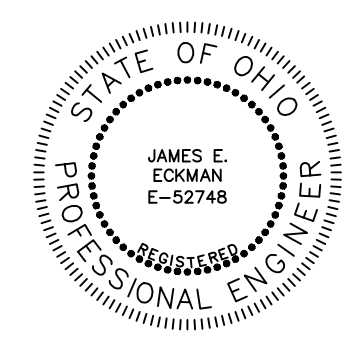
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03/31/2023  
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 PROJECT NUMBER

E001

DRAWING NUMBER



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

REVISIONS	
▲	BULLETIN 01 - 07/17/2023
▲	BULLETIN 02 - 09/19/2023

**LIGHTING - FIRST FLOOR - ELEC.**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**

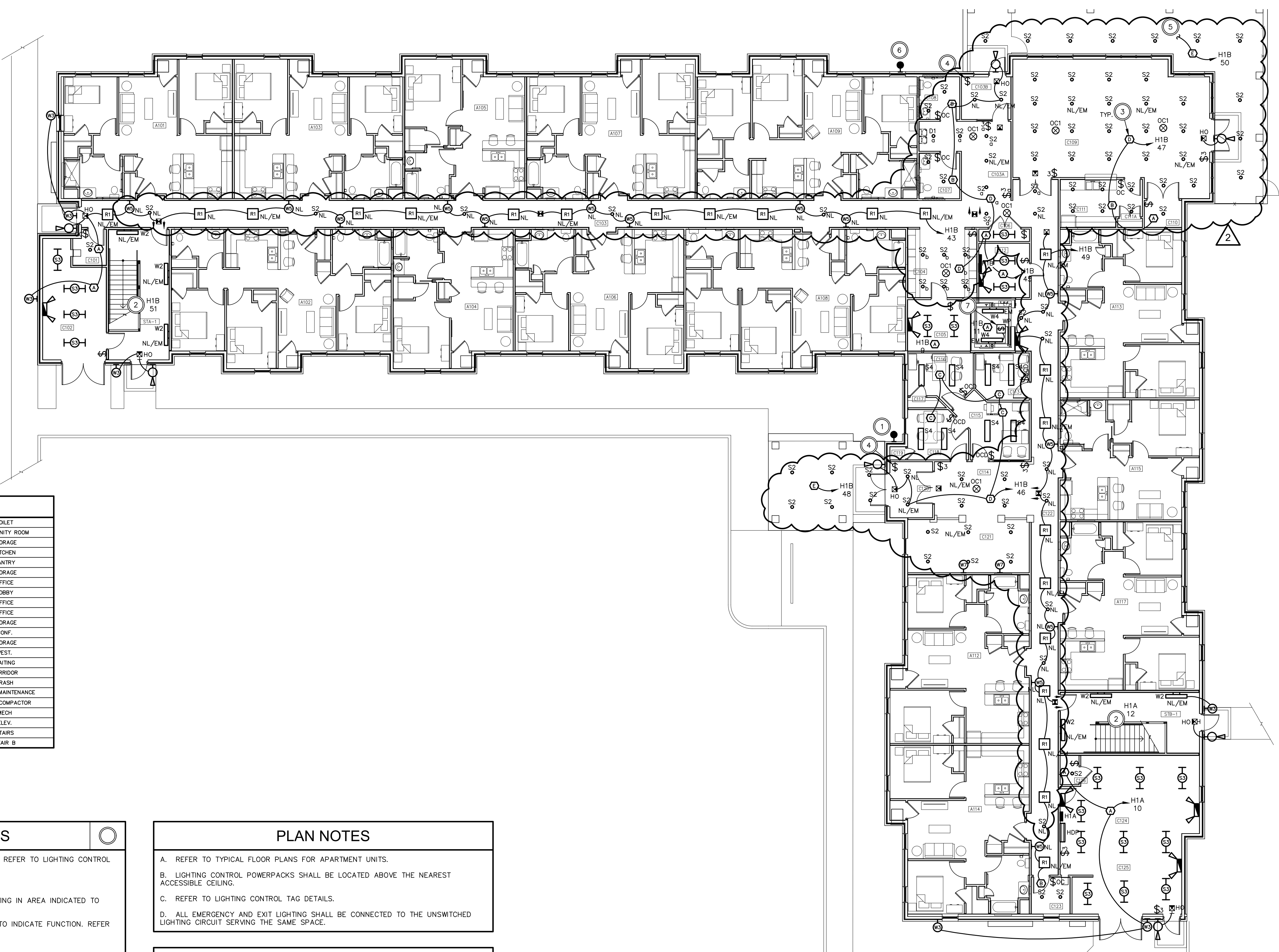


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 82A21  
 PROJECT NUMBER

**E101**  
 DRAWING NUMBER



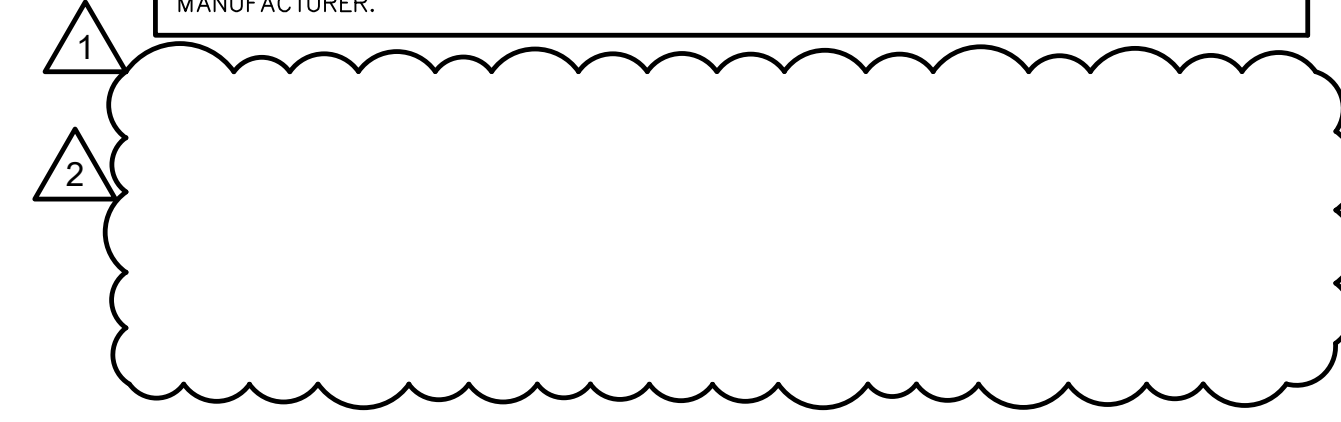
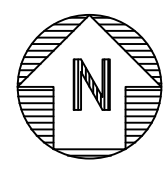
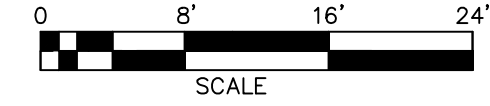
ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112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

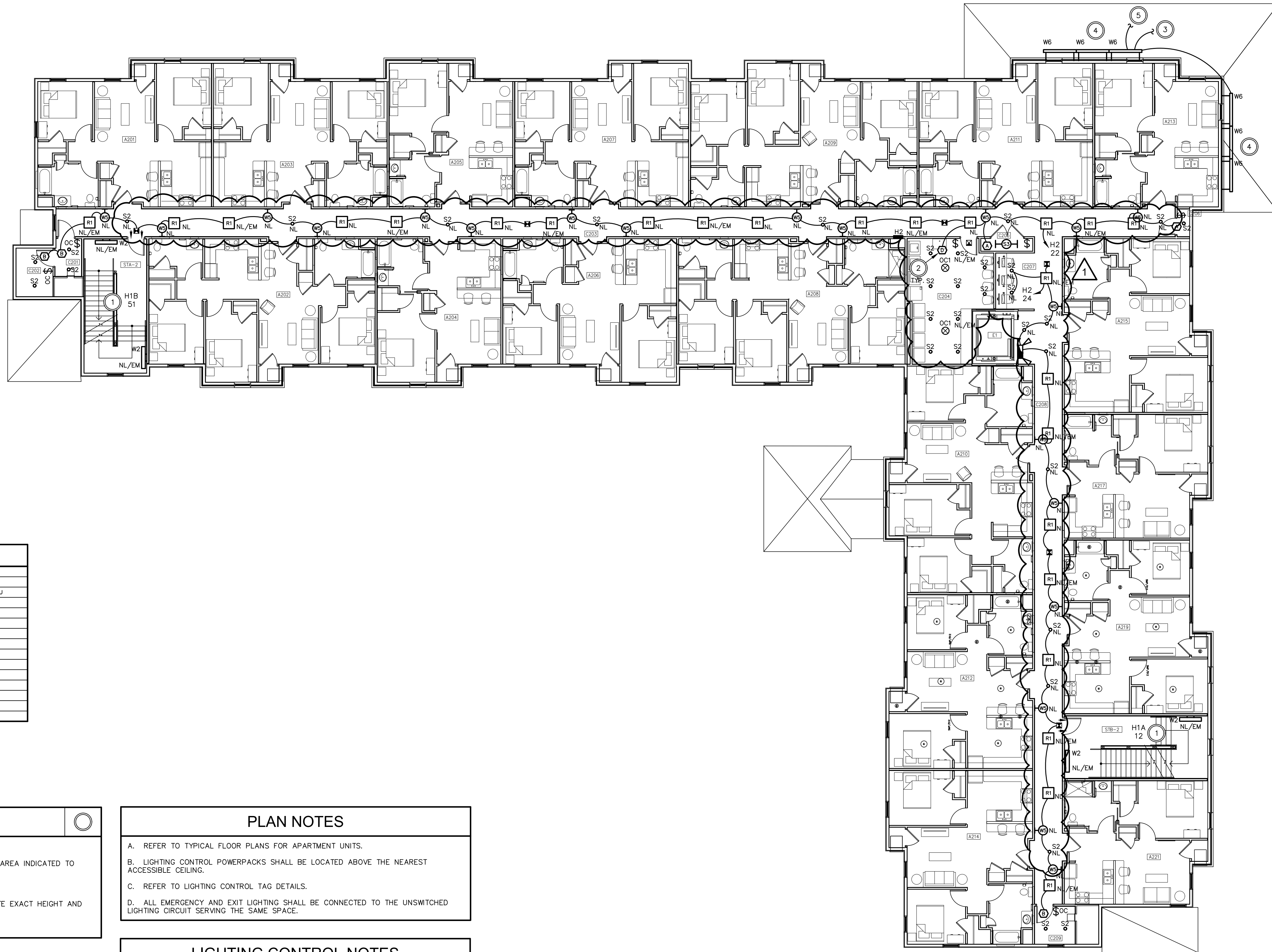
CODED NOTES	
○	1. PHOTOCELL FOR WEST EXTERIOR CANOPY LIGHTING. REFER TO LIGHTING CONTROL TAG "E".
○	2. LIGHTING CIRCUIT FOR ALL FIXTURES IN STAIRWELL.
○	3. LIGHTING CONTROL TAG (TYP). CONNECT ALL LIGHTING IN AREA INDICATED TO CIRCUIT SHOWN.
○	4. OVERRIDE SWITCH FOR EXTERIOR LIGHTING. LABEL TO INDICATE 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 SCENES 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.

**LIGHTING - FIRST FLOOR PLAN - ELECTRICAL**





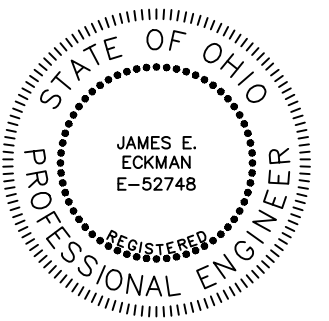
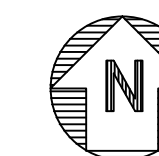
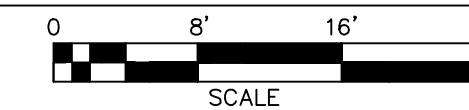
ROOM LEGEND			
A201	TWO BEDROOM	A217	ONE BEDROOM
A202	THREE BEDROOM	A219	TWO BEDROOM
A203	TWO BEDROOM	A221	ONE BEDROOM MU
A204	ONE BEDROOM	C201	TRASH
A205	ONE BEDROOM	C202	STORAGE
A206	TWO BEDROOM	C203	CORRIDOR
A207	TWO BEDROOM	C204	LAUNDRY
A208	THREE BEDROOM MU	C205	DATA
A209	THREE BEDROOM	C206	STORAGE
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 SCONCES ARE ALWAYS-ON "NIGHT-LIGHTS". CONNECT TO UNSWITCHED LIGHTING CIRCUIT.
B. STAIRWELL LIGHTING CONTROLS: a. STAIRWELL FIXTURE ARE EQUIPPED WITH INTEGRAL OCCUPANCY SENSORS AND WILL DIM TO 50% WHEN NO OCCUPANCY IS DETECTED. CONNECT TO UNSWITCHED LIGHTING CIRCUIT.

**LIGHTING - SECOND FLOOR PLAN - ELECTRICAL**



3/31/23  
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REVISIONS	
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**LIGHTING - SECOND FLOOR - ELEC.**

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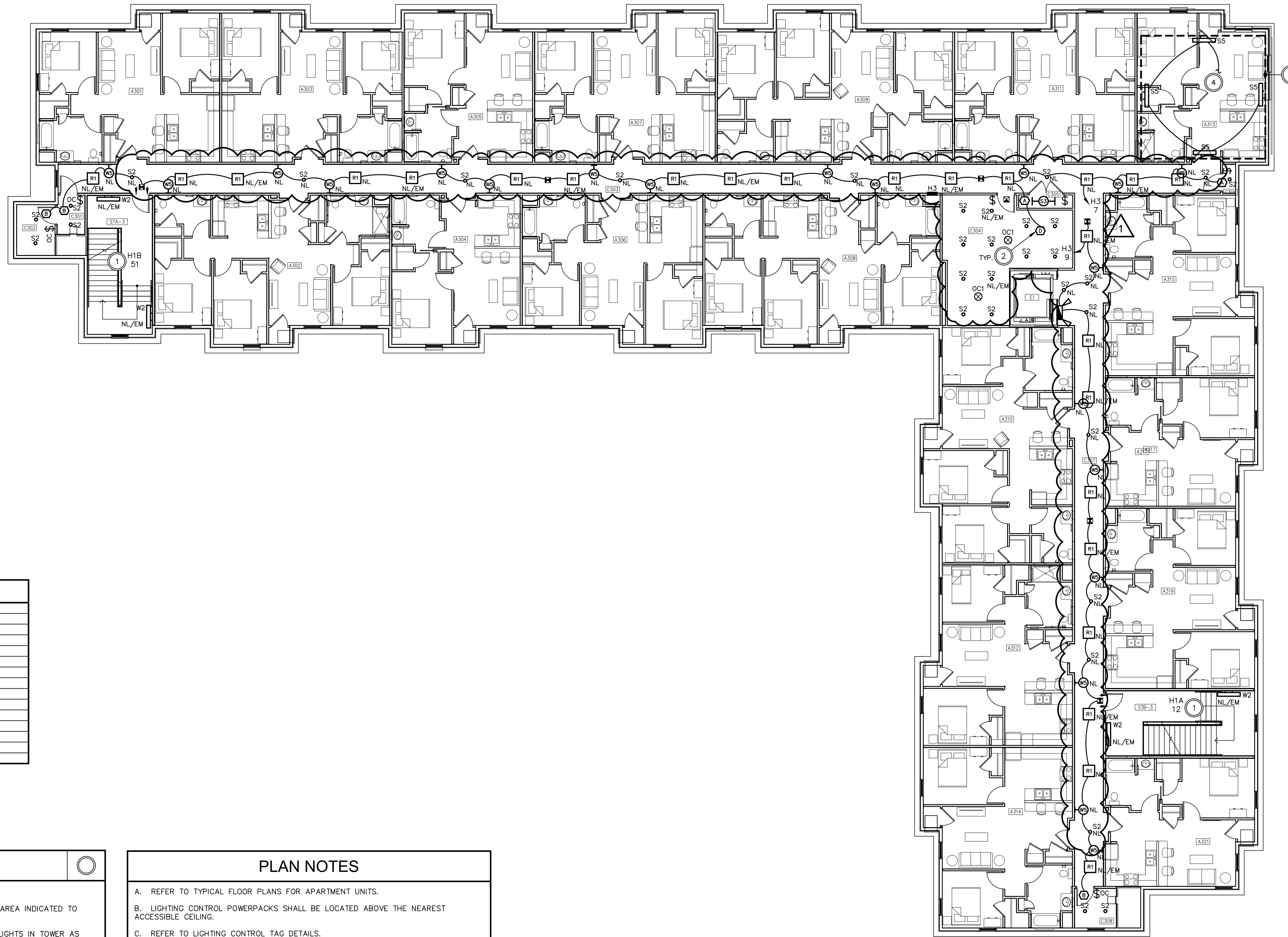
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82A21

PROJECT NUMBER

**E102**

DRAWING NUMBER



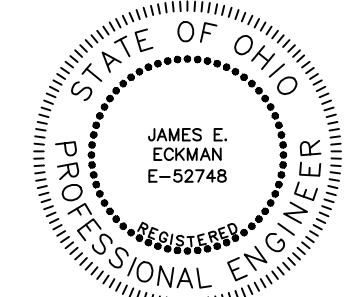
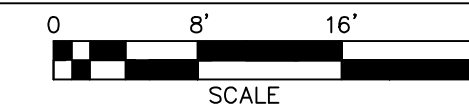
ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE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



J. E. Eckman 3/31/23  
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▲	BULLETIN 02 - 09/19/2023

LIGHTING - THIRD FLOOR - ELEC.  
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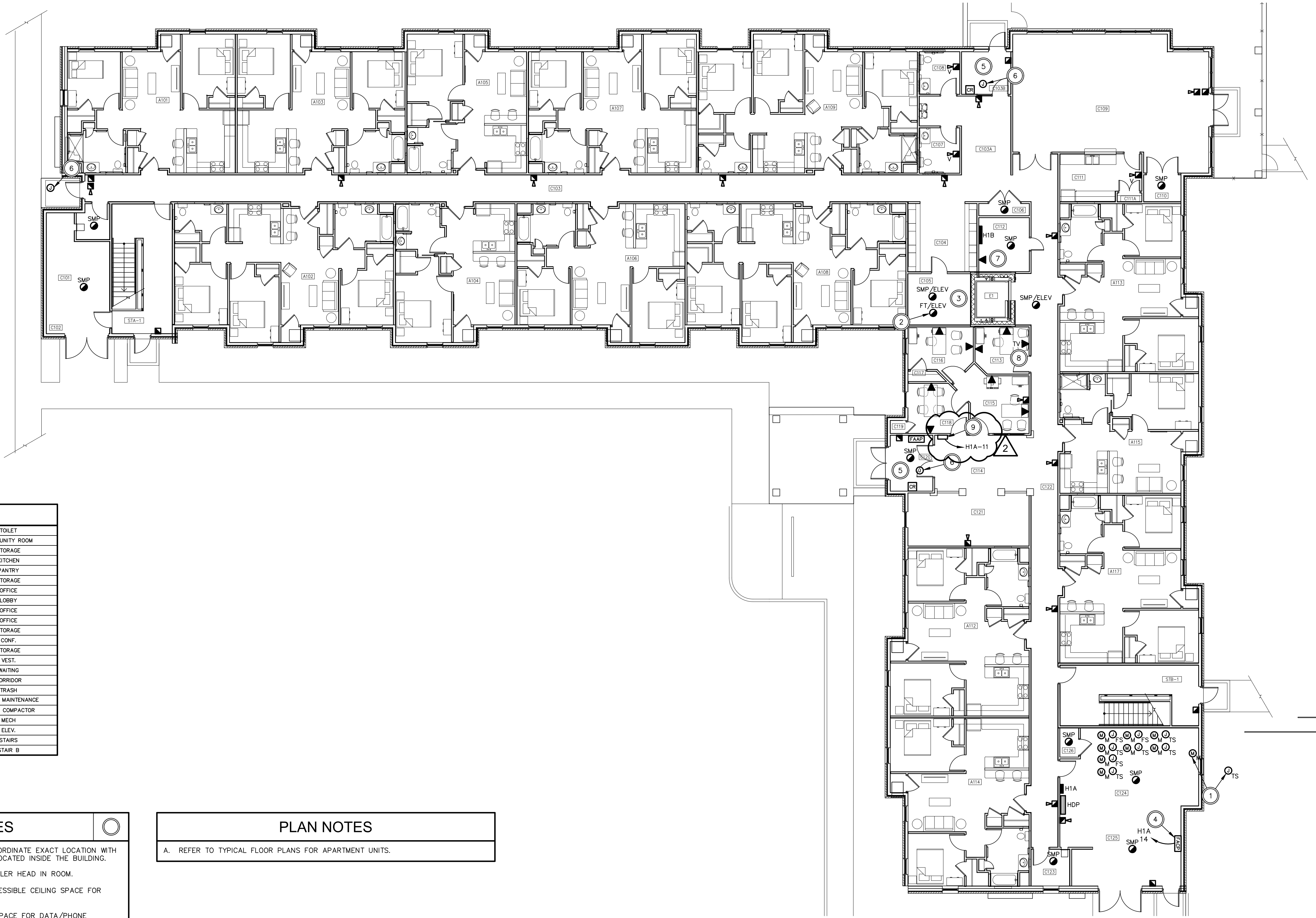
TURNING VISIONS  
INTO REALITY

03/31/2023  
DATE  
82A21  
PROJECT NUMBER

E103  
DRAWING NUMBER



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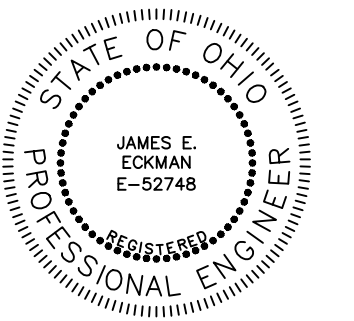
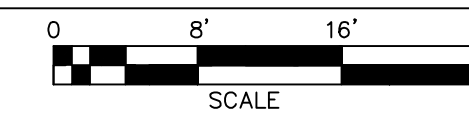


ROOM LEGEND			
A101	TWO BEDROOM MU	C108	TOILET
A102	THREE BEDROOM	C109	COMMUNITY ROOM
A103	TWO BEDROOM	C110	STORAGE
A104	ONE BEDROOM	C111	KITCHEN
A105	ONE BEDROOM	C111A	PANTRY
A106	TWO BEDROOM	C112	STORAGE
A107	TWO BEDROOM	C113	OFFICE
A108	THREE BEDROOM	C114	LOBBY
A109	THREE BEDROOM	C115	OFFICE
A112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

CODED NOTES	
○	1. TAMPER SWITCH AT POST-INDICATOR VALVE. COORDINATE EXACT LOCATION WITH 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.
△	9. AREA OF RESCUE CONTROL ANNUCIATOR AND SIGNAGE. COORDINATE EXACT LOCATION WITH ARCHITECT AND AHJ PRIOR TO INSTALLATION. COORDINATE EXACT SIGNAGE REQUIREMENTS WITH AHJ.

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

**SYSTEMS - FIRST FLOOR PLAN - ELECTRICAL**



*J. E. Eckman* 3/31/23  
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△	BULLETIN 01 - 07/17/2023
△	BULLETIN 02 - 09/19/2023

**SYSTEMS - FIRST FLOOR - ELEC.**

**GERMANTOWN CROSSING  
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03/31/2023

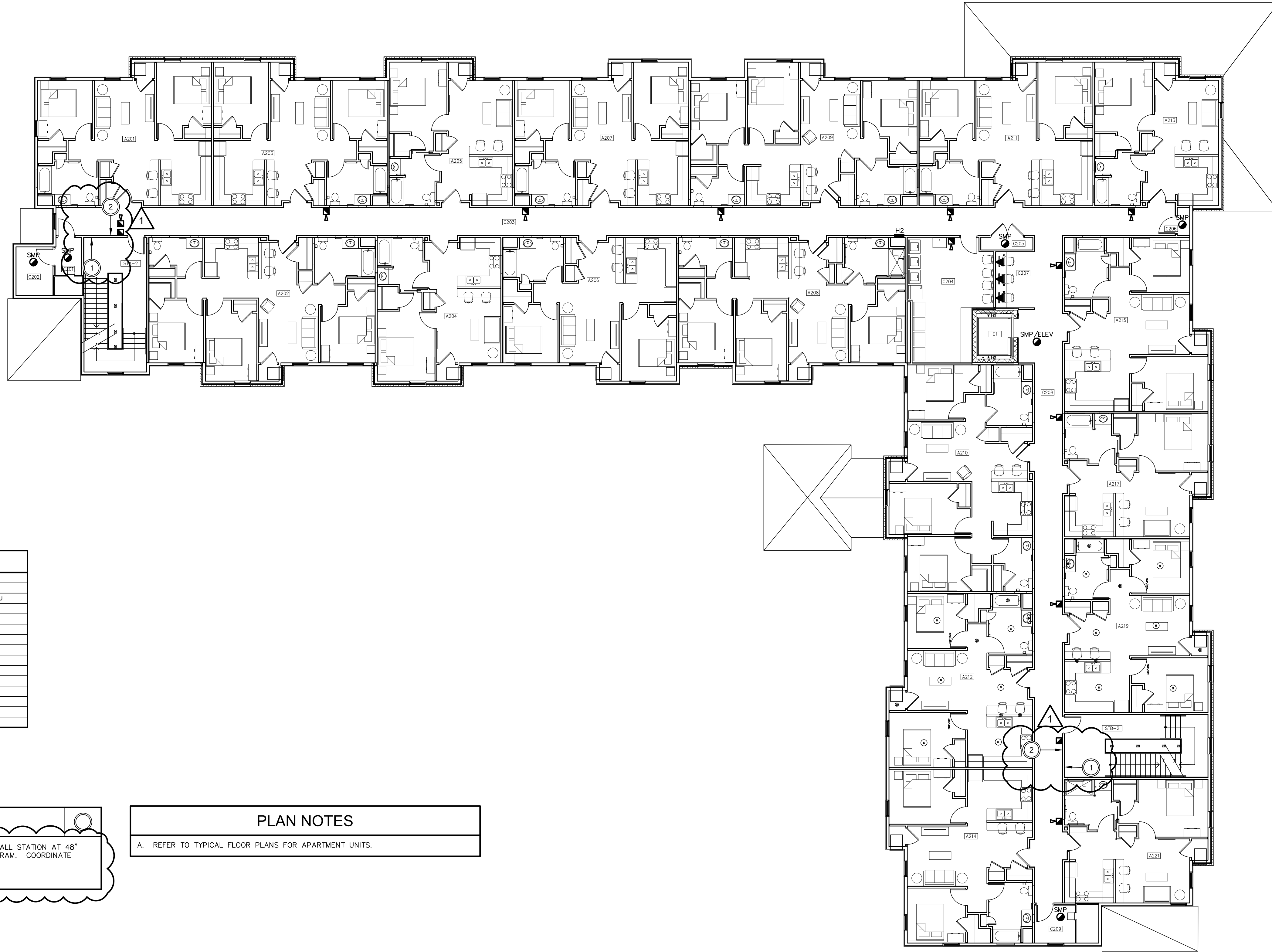
DATE

82A21

PROJECT NUMBER

**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

**1** **CODED NOTES**

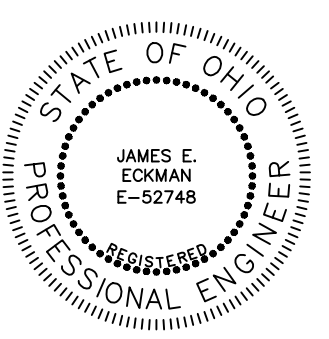
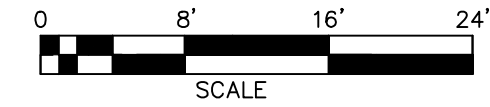
1. AREA OF RESCUE CALL STATION AND SIGNAGE. MOUNT CALL STATION AT 48" AFF TO CENTERLINE. REFER TO AREA OF RESCUE WIRING DIAGRAM. COORDINATE EXACT SIGNAGE REQUIREMENTS WITH AHJ.

2. AREA OF RESCUE ASSISTANCE SIGNAGE.

**PLAN NOTES**

A. REFER TO TYPICAL FLOOR PLANS FOR APARTMENT UNITS.

**SYSTEMS - SECOND FLOOR PLAN - ELECTRICAL**



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

**REVISIONS**

▲	BULLETIN 02 - 09/19/2023

**SYSTEMS - SECOND FLOOR - ELEC.**

**GERMANTOWN CROSSING**

**DAYTON OHIO**

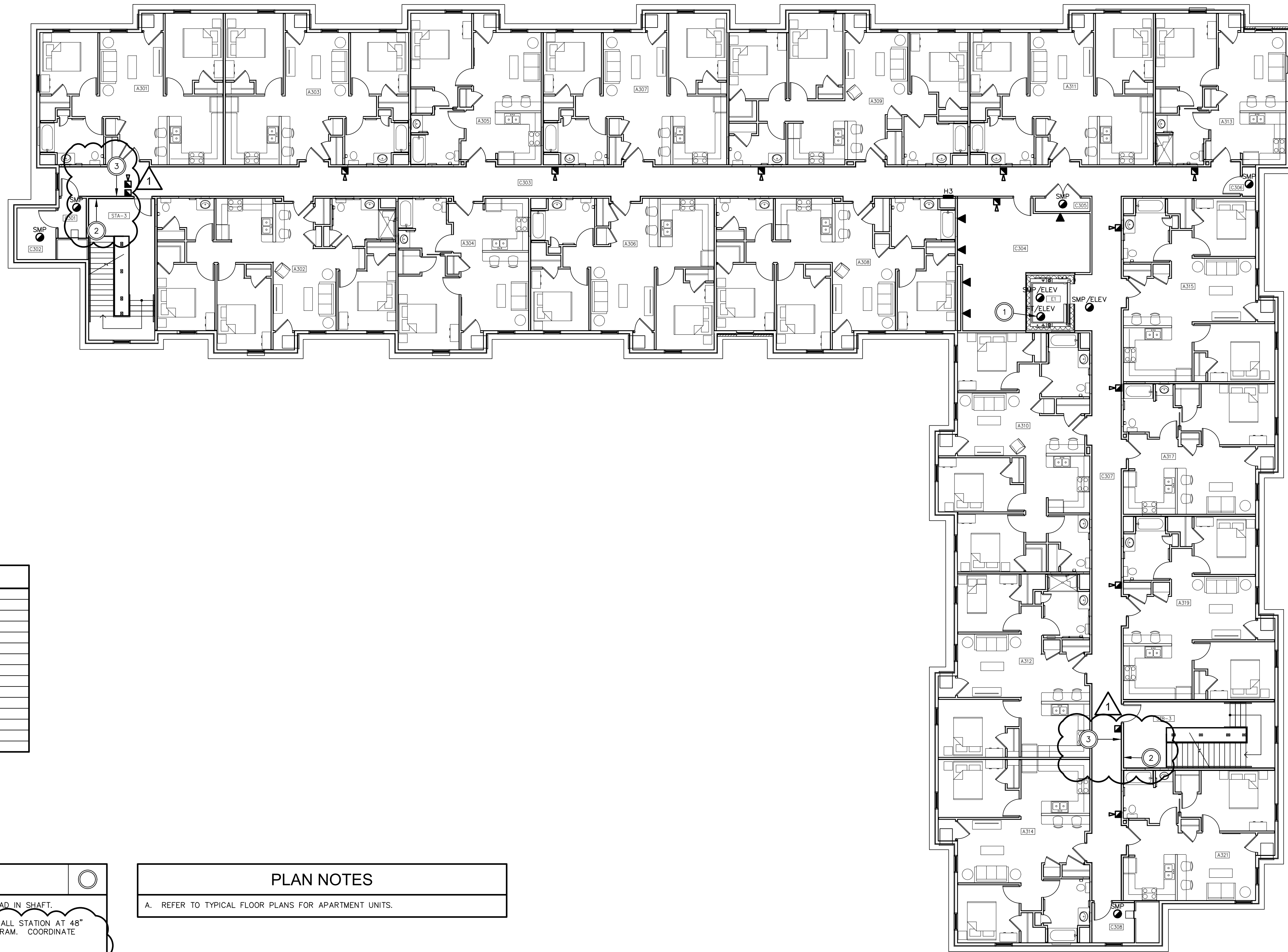


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82A21  
PROJECT NUMBER

**E302**  
DRAWING NUMBER

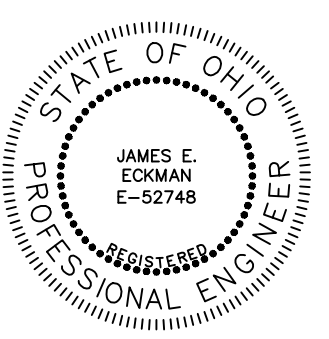
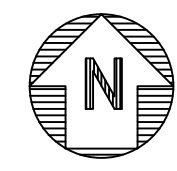
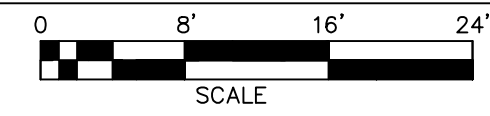


ROOM LEGEND			
A301	TWO BEDROOM	A317	ONE BEDROOM
A302	THREE BEDROOM MU	A319	TWO BEDROOM
A303	TWO BEDROOM	A321	ONE BEDROOM
A304	ONE BEDROOM	C301	TRASH
A305	ONE BEDROOM	C302	STORAGE
A306	TWO BEDROOM	C303	CORRIDOR
A307	TWO BEDROOM	C304	FITNESS
A308	THREE BEDROOM	C305	DATA
A309	THREE BEDROOM	C306	STORAGE
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.
2	AREA OF RESCUE CALL STATION AND SIGNAGE. MOUNT CALL STATION AT 48" AFF TO CENTERLINE. REFER TO AREA OF RESCUE WIRING DIAGRAM. COORDINATE EXACT SIGNAGE REQUIREMENTS WITH AH-J.
3	AREA OF RESCUE ASSISTANCE SIGNAGE.

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

SYSTEMS - THIRD FLOOR PLAN - ELECTRICAL



*J. E. Eckman* 3/31/23  
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1	BULLETIN 02 - 09/19/2023

SYSTEMS - THIRD FLOOR - ELEC.  
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82A21  
PROJECT NUMBER

E303  
DRAWING NUMBER

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TYPICAL ONE-BEDROOM PANELBOARD SCHEDULE						
PANEL: ONE-BED		LOCATION: AS NOTED ON PLAN		MOUNTING: FLUSH		
SERVICE: 208/120 VOLTS, 1 PHASE, 3 WIRE, 60 HZ						
MAINS 150 AMPS, -- LUGS, 150A CCT. BKR.						
FED FROM UTILITY METER		FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS				
LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	CCT. BKR. NO.	DESCRIPTION	LOAD
H-6743	HVAC UNIT VRP-1	45/2	1	2	20/1 SMOKE ALARMS	M-250
			3	4	20/1 SPARE	
R-8000	RANGE	50/2	5	6	20/1 RECEPT. - REFRIGERATOR	R-1000
			7	8	20/1 RECEPT. - KITCHEN COUNTER	R-360
R-1080	RECEPT. - LIVING ROOM	20/1	9	10	20/1 RECEPT. - KITCHEN PENINSULA	R-540
R-900	RECEPT. - BEDROOM	20/1	11	12	20/1 RANGE HOOD	H-100
R-360	RECEPT. - BATHROOM	20/1	13	14	20/1 KITCHEN EXHAUST	H-24
L-182	LIGHTING	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				
		L - LIGHTING				
2. ALL 15/1 AND 20/1 CIRCUIT BREAKERS SHALL BE AFCI TYPE.		P - PLUMBING				
		H - HVAC				

**PLAN NOTES**

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

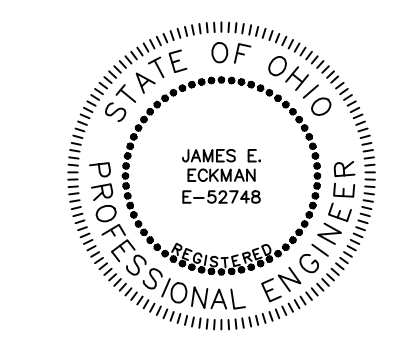
**CODED NOTES**

- 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.

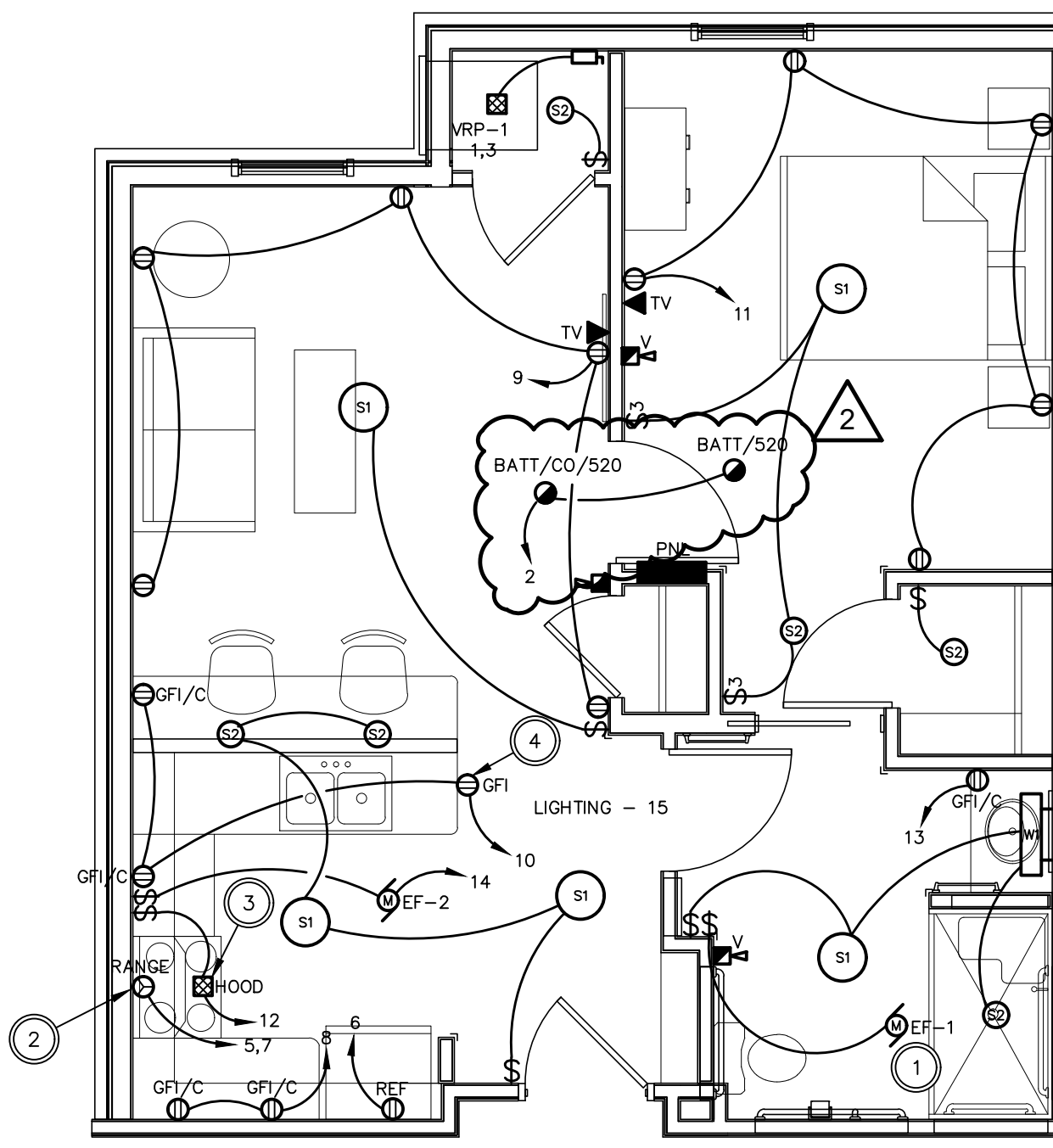
- FORWARD REACH WITH NO OBSTRUCTION:
  - LIGHT SWITCHES MAXIMUM HEIGHT: 48" TO CENTERLINE.
  - POWER RECEPTACLE MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
  - DATA OUTLET MINIMUM HEIGHT: 15" TO BOTTOM OF DEVICE.
- SIDE REACH OVER AN OBSTRUCTION (WHERE DEVICES ARE LOCATED ABOVE COUNTERTOPS WITH NO KNEE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



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

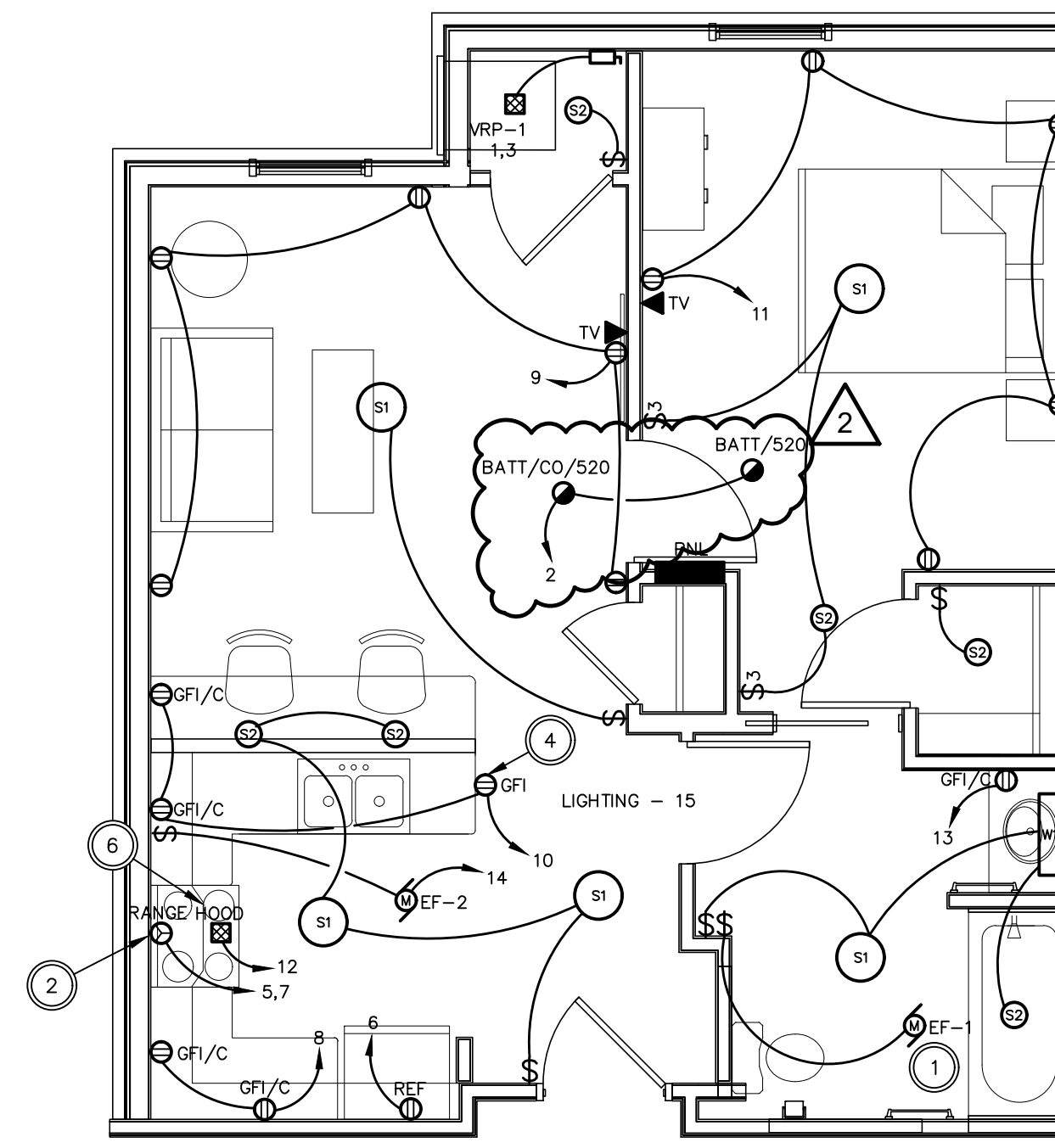
**REVISIONS**

1	BULLETIN 01 - 07/17/2023
2	BULLETIN 02 - 09/19/2023



**NEW WORK - TYP. ONE BEDROOM MU - ELECTRICAL**

0 4' 6' 8'  
SCALE



**NEW WORK - TYP. ONE BEDROOM - ELECTRICAL**

0 4' 6' 8'  
SCALE

TYPICAL ONE BEDROOM - ELEC.

GERMANTOWN CROSSING  
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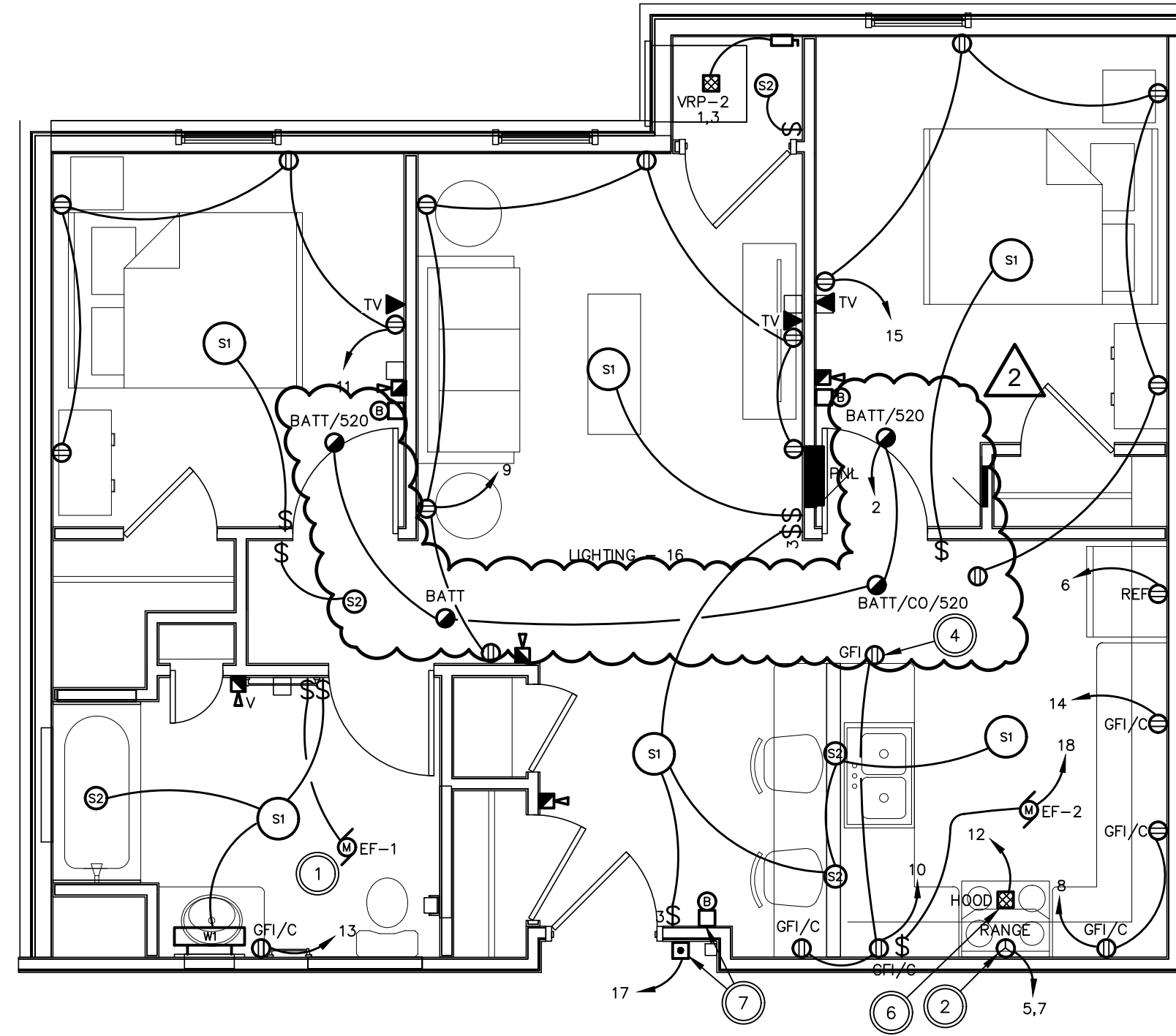
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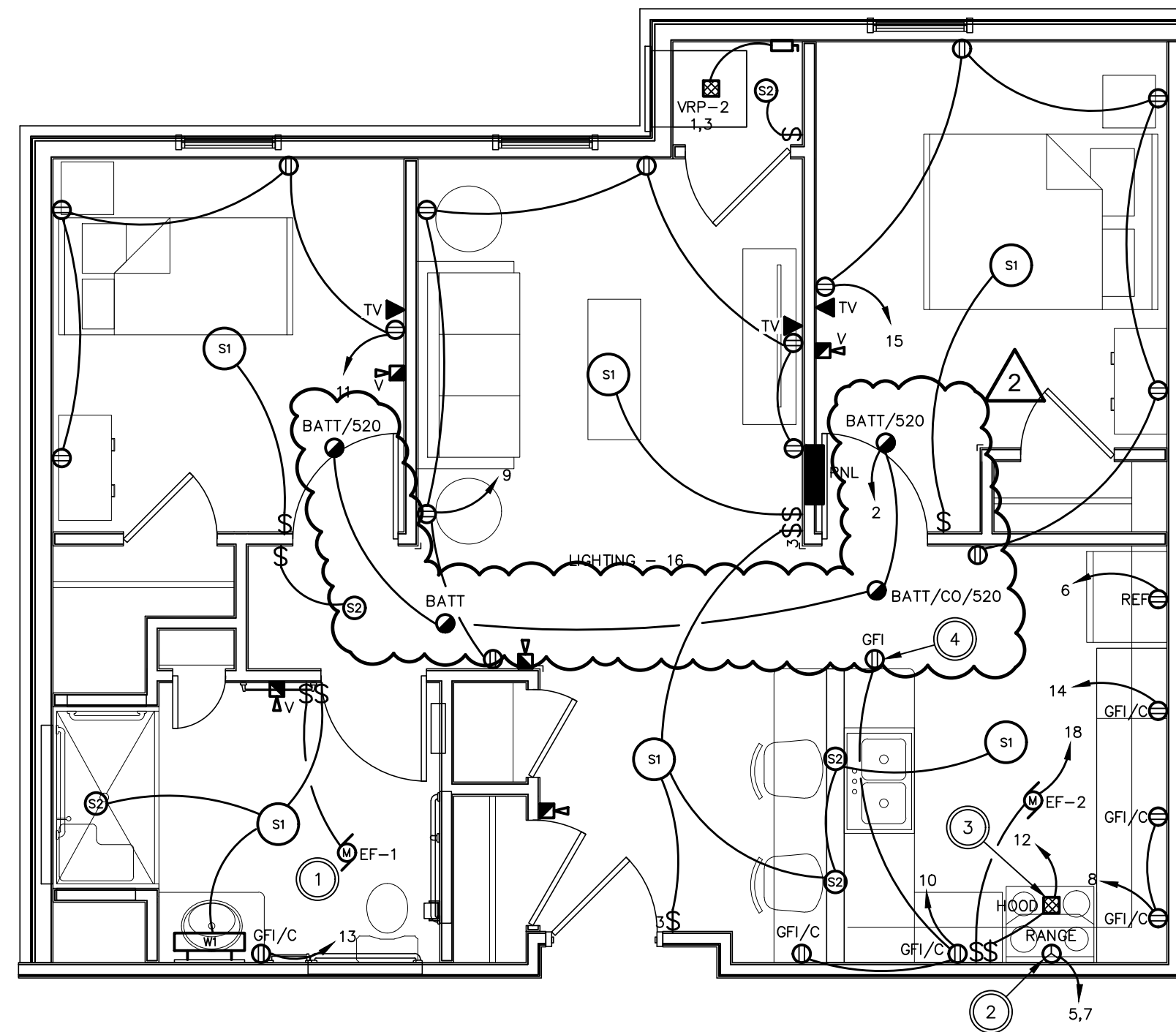
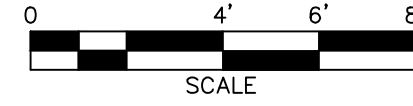
**E401**

DRAWING NUMBER

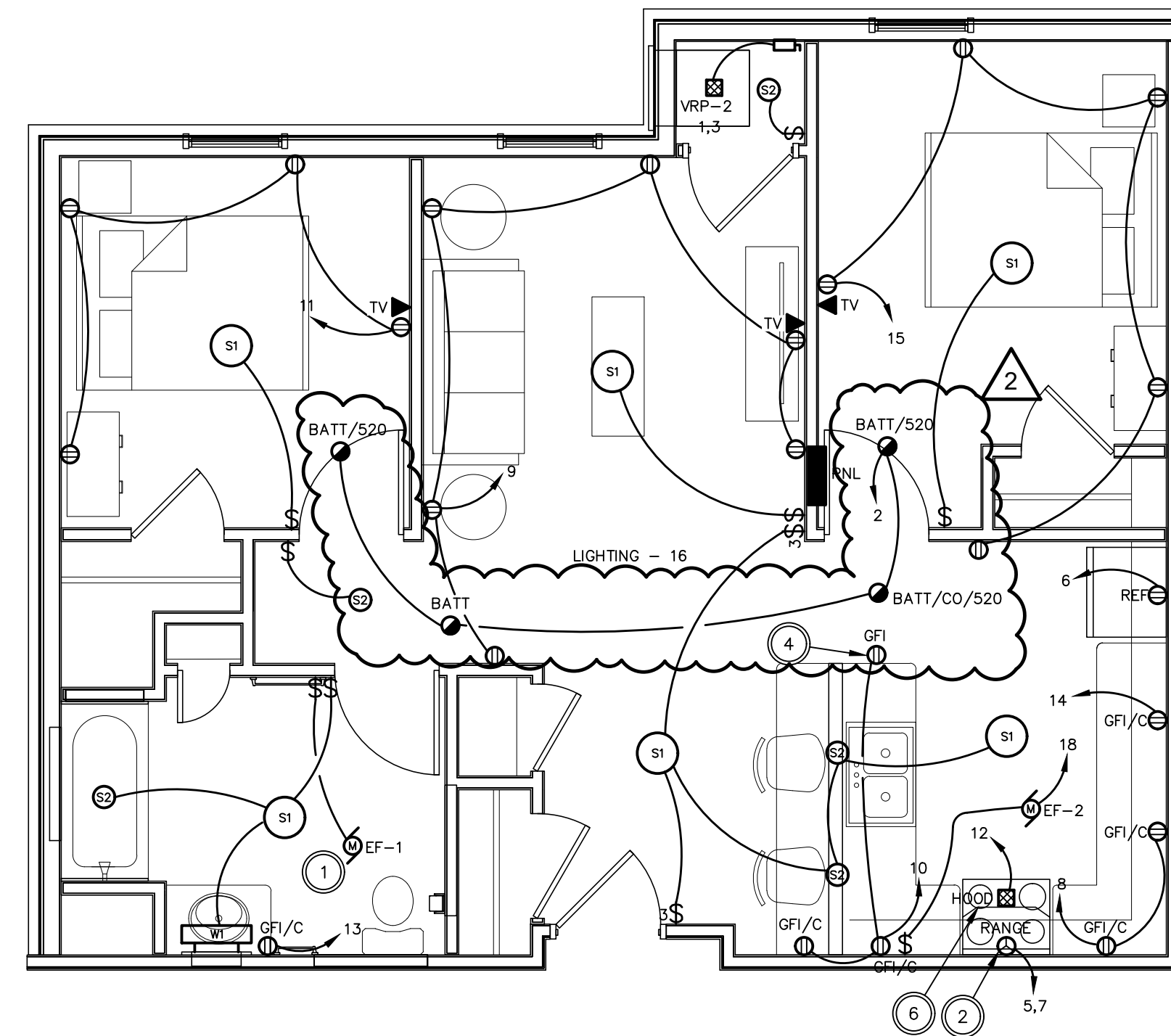
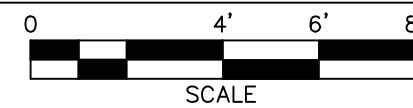
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NEW WORK - TYP. TWO BEDROOM S&H - ELECTRICAL



NEW WORK - TYP. TWO BEDROOM MU - ELECTRICAL



NEW WORK - TYP. TWO BEDROOM - 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, LUGS, 150A CCT. BKR.  
 FED FROM UTILITY METER FULL CAPACITY, NEUTRAL, SEPARATE GROUNDING BUS

LOAD	DESCRIPTION	CCT. BKR. NO.	CCT. NO.	DESCRIPTION	LOAD
H-7862	HVAC UNIT VRP-2	50/2	1	SMOKE ALARMS	M-250
R-8000	RANGE	50/2	5	RECEPT. - REFRIGERATOR	R-1000
R-1080	RECEPT. - LIVING ROOM	20/1	9	RECEPT. - KITCHEN COUNTER	R-360
R-720	RECEPT. - BEDROOM	20/1	11	RECEPT. - KITCHEN PENINSULA	R-540
R-180	RECEPT. - BATHROOM	20/1	13	RECEPT. - KITCHEN COUNTER	R-180
R-900	RECEPT. - BEDROOM	20/1	15	LIGHTING	L-204
M-50	DOORBELL (S&H UNIT ONLY)	20/1	17	KITCHEN EXHAUST	H-24
-	SPARE	20/1	19	SPARE	-
-	SPARE	20/1	21	SPARE	-
-	SPARE	20/1	23	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.

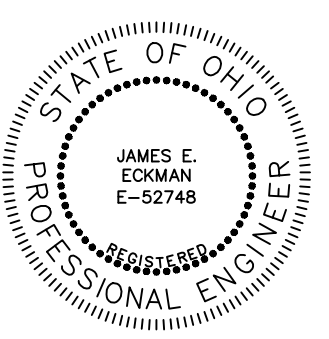
CODED NOTES

- 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 3/31/23  
 SIGNATURE DATE

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△	BULLETIN 01 - 07/17/2023
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TYPICAL TWO BEDROOM - ELEC.  
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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. NO.	OCT. NO.	CCT. BKR. NO.	OCT. NO.	DESCRIPTION	LOAD
H-8186	HVAC UNIT VRF-3 CIRCUIT #1	50/2	1	2	25/2	HVAC UNIT VRF-3 CIRCUIT #2	H-3993
R-8000	RANGE	50/2	5	6	20/1	SMOKE ALARMS	M-250
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.

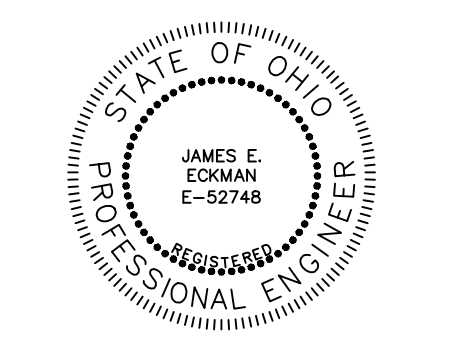
### CODED NOTES

- 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

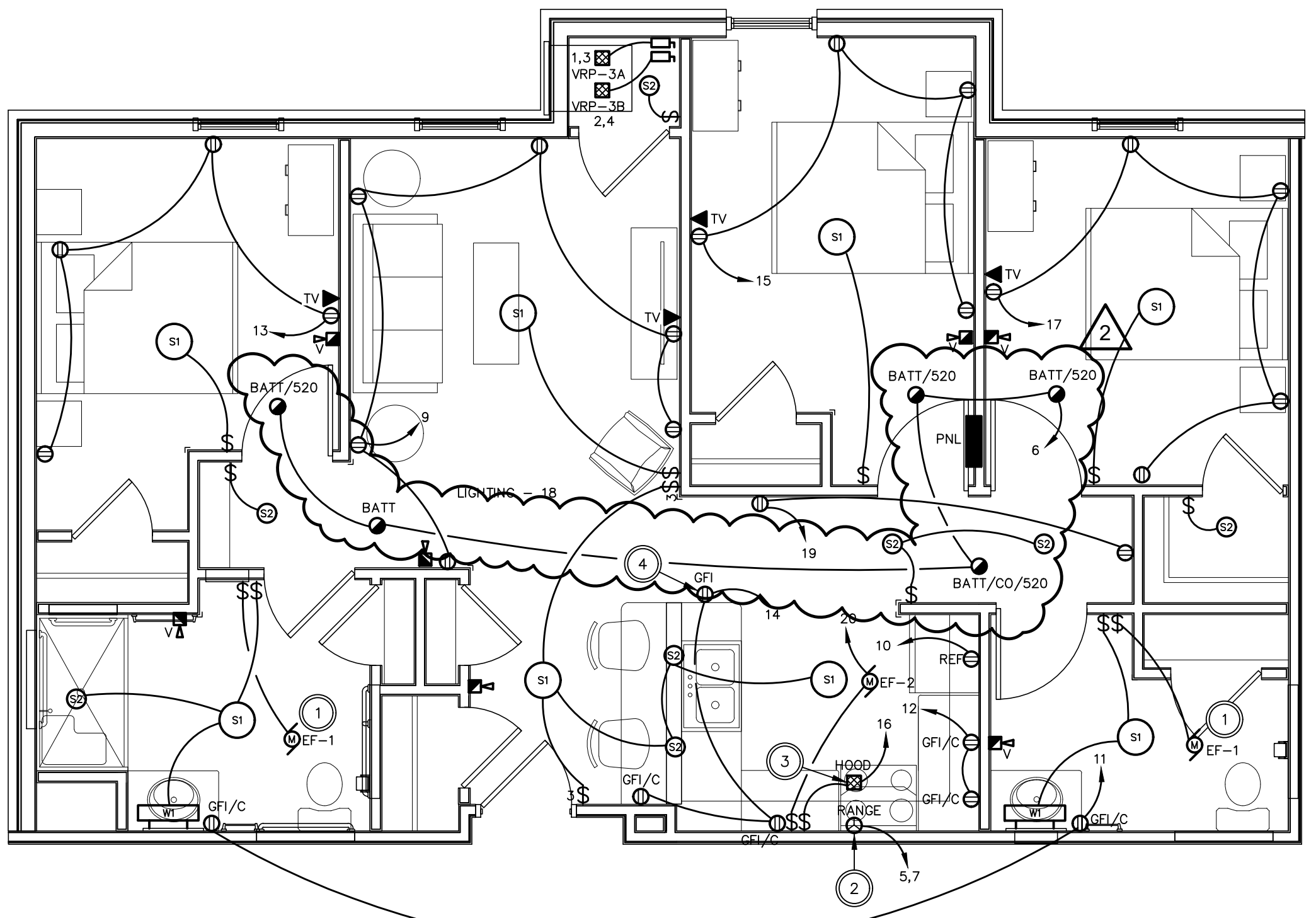
THE FOLLOWING OUTLINES THE MINIMUM ADA REQUIREMENTS FOR DEVICE MOUNTING HEIGHTS IN MOBILITY UNITS.

- 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.

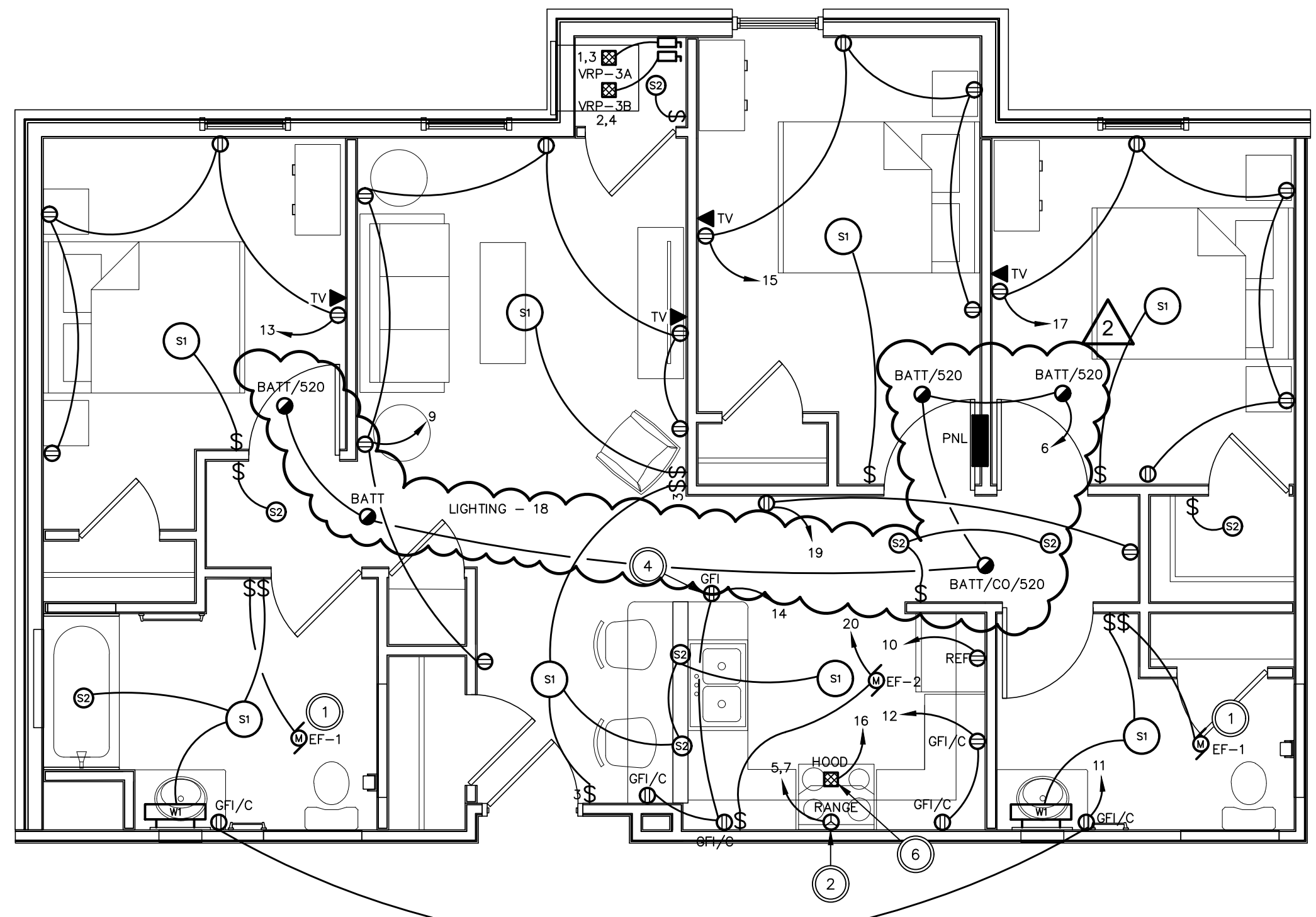


*J. E. Eckman* 3/31/23  
 SIGNATURE DATE

REVISIONS	
1	BULLETIN 01 - 07/17/2023
2	BULLETIN 02 - 09/19/2023



NEW WORK - TYP. THREE BEDROOM MU - ELECTRICAL



NEW WORK - TYP. THREE BEDROOM - ELECTRICAL

**TYPICAL THREE BEDROOM - ELEC.**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**



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**TURNING VISIONS INTO REALITY**

03/31/2023  
 DATE  
 82A21  
 PROJECT NUMBER

**E403**  
 DRAWING NUMBER

LIGHTING FIXTURE SCHEDULE				
SYMBOL	CATALOG NO.	DESCRIPTION	NOTING	AMP (S)
FL1	X17FA-80	RAB: X17 SERIES FLOODLIGHT, 9-1/2" WIDE x 11" TALL x 3" DEEP, ALUMINUM HOUSING, 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-GZ10-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-SWV3-80CRI	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-GZ1-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-GZ10-30K-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-GZ1-LP830-MSD7ADCX-DIM50-E10WCP	LITHONIA: BLWP WALL FIXTURE, 4' LONG, STEEL HOUSING, WHITE POLYCARBONATE LENS, 4000 LUMENS, 47 WATTS, 4000K, INTEGRAL PHOTOCELL, WET LOCATION LISTED, 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-GZ10-40K-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 SCENCE, CURVED WHITE ACRYLIC LENS WITH BRUSHED NICKEL BARS, 611 LUMENS, 17 WATTS, 3000K, 120V.	WALL SURFACE	INTEGRAL LED
W6	S175-RO6L-HFCOXX18-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 SCENCE, 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
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
LQM-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

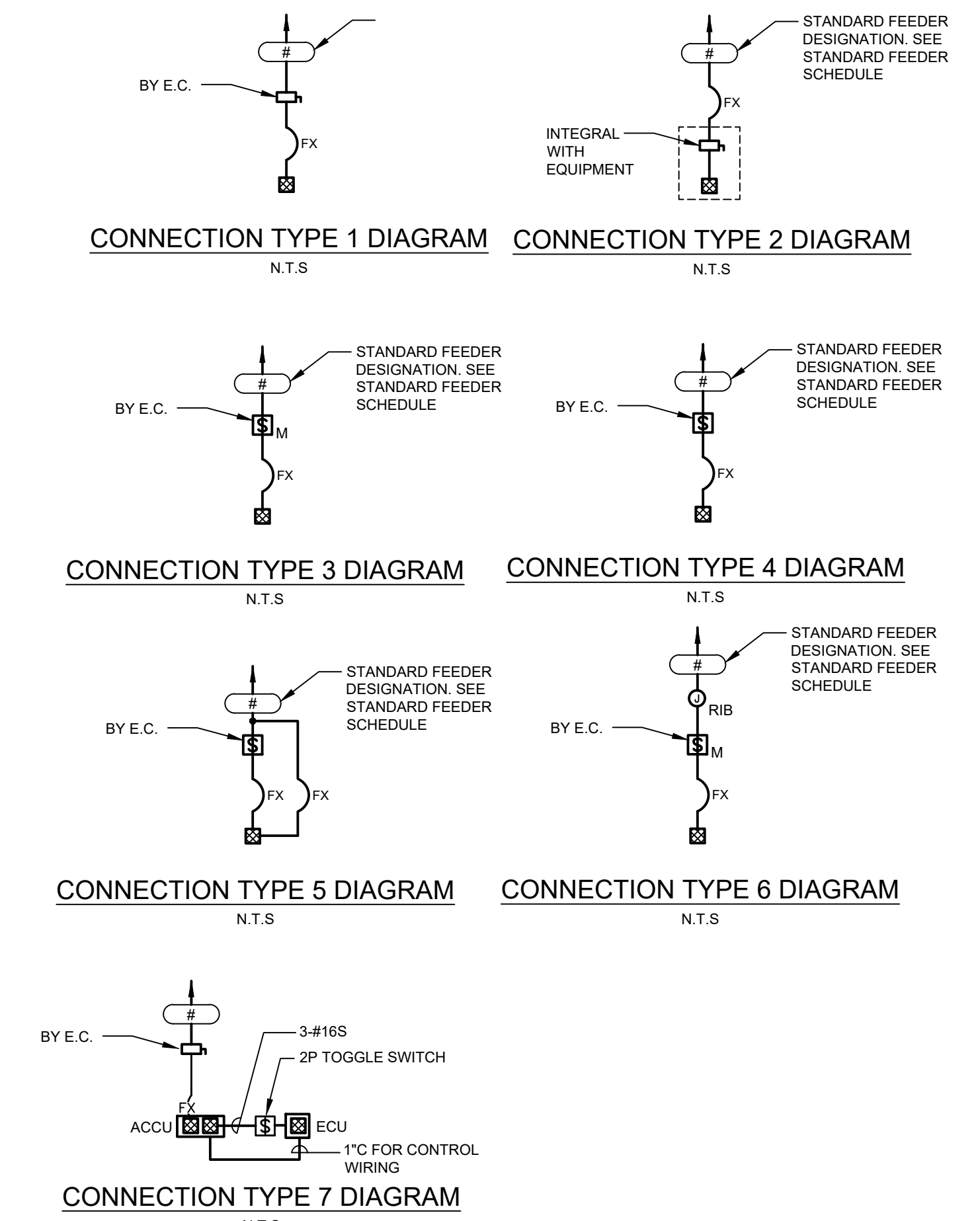
ENGINEER APPROVED EQUIVALENT FIXTURES BY THE FOLLOWING MANUFACTURERS ARE ACCEPTABLE:

SYMBOL	MANUFACTURER
FL1	ASD LIGHTING, COOPER, L.P.
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.
ELM4L	EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES
LHQM-LED-R-HO-RO	EXITRONIX, EMERGI-LITE, DUAL-LITE, SURE-LITES
ELMRW-LP220L-TBD-T	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/ECU-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	
EWH-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



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-4800	CABINET HEATER - TRASH	30/2	17	18		PARKING LOT LIGHTING	L-639			
H-3952	CU-2	35/2	7	8	20/1	MONUMENT SIGN LIGHTING	L-164			
M-200	AREA OF RESCUE SYSTEM	20/1	11	12	20/1	LIGHTING - MAINTENANCE ROOM	L-544			
M-200	SPARE	20/1	13	14	20/1	FIRE ALARM CONTROL PANEL	M-200			
H-4800	CABINET HEATER - TRASH	30/2	15	16	20/1	EF-4 - MAINTENANCE	H-81			
H-6000	WALL HEATER - STAIRWELL	40/2	19	20	20/3	TRASH COMPACTOR	M-3960			
H-6000	WALL HEATER - STAIRWELL	40/2	21	22						
H-6000	WALL HEATER - STAIRWELL	40/2	23	24	30/1	DRY-PIPE SUPPRESSION SYSTEM	M-500			
H-6000	WALL HEATER - MAINTENANCE	40/2	25	26	20/1	MAIN ENTRANCE AUTO DOORS	M-200			
P-600	DWH-1	20/1	27	28	20/1	DOMESTIC WATER RECIRC PUMP	P-1176			
P-600	DWH-2	20/1	29	30	20/1	SPARE	-			
P-50	MASTER MIXING VALVE	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:**

- 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

STATE OF OHIO  
JAMES E. ECKMAN  
E-92748  
PROFESSIONAL ENGINEER  
3/31/23  
DATE

**REVISIONS**

▲ BULLETIN 01 - 07/17/2023

▲ BULLETIN 02 - 09/19/2023

SCHEDULES - ELECTRICAL

GERMANTOWN CROSSING

DAYTON OHIO



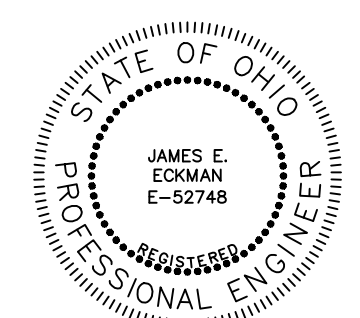
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**TURNING VISIONS INTO REALITY**

03/31/2023  
DATE

82A21  
PROJECT NUMBER

**E601**  
DRAWING NUMBER



3/31/23 DATE  
SIGNATURE

REVISIONS  
BULLETIN 02 - 09/19/2023

DETAILS - ELECTRICAL  
GERMANTOWN CROSSING  
DAYTON OHIO



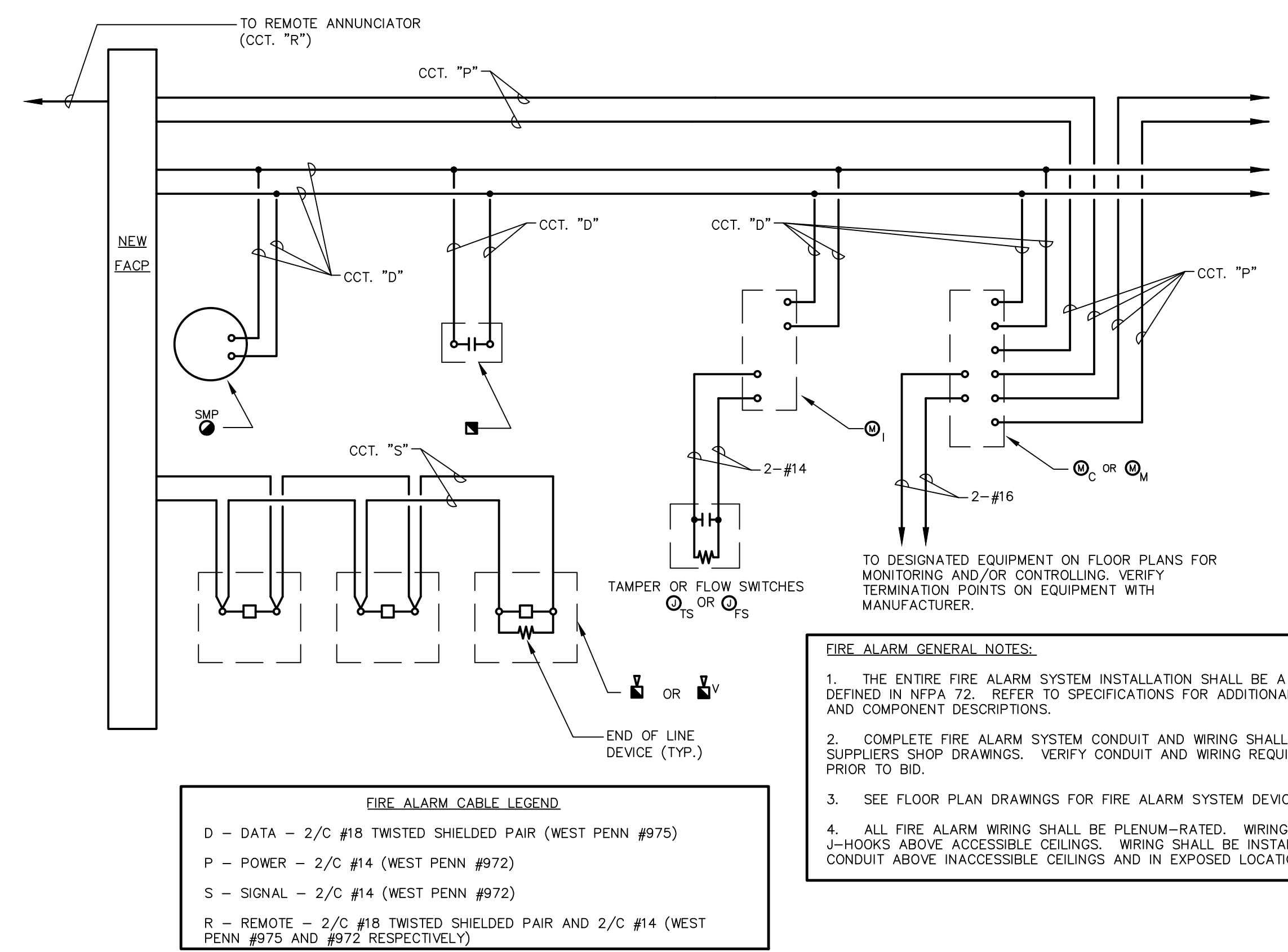
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TURNING VISIONS  
INTO REALITY

03/31/2023  
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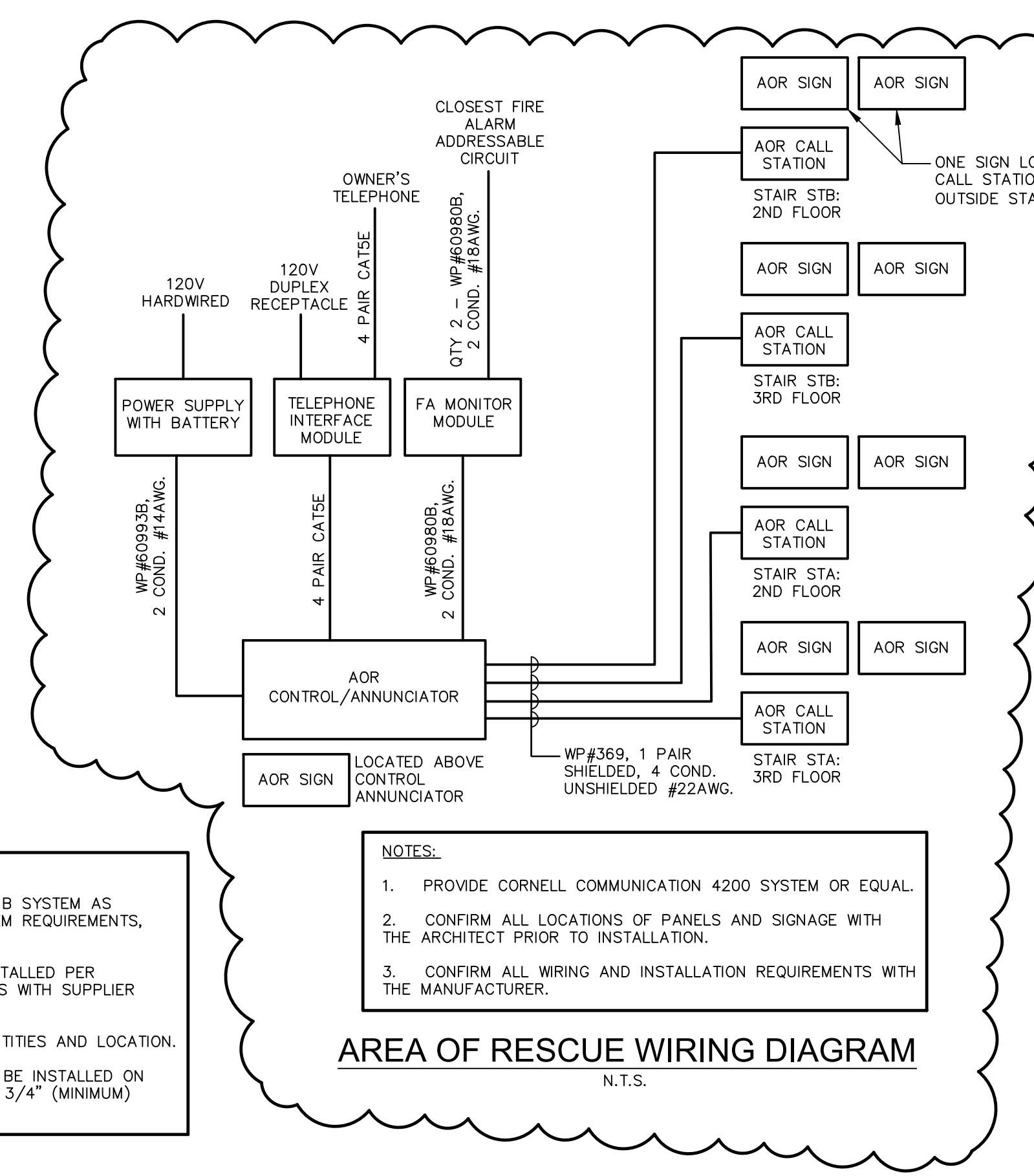
E704  
DRAWING NUMBER



**FIRE ALARM CABLE LEGEND**  
D - DATA - 2/C #18 TWISTED SHIELDED PAIR (WEST PENN #975)  
P - POWER - 2/C #14 (WEST PENN #972)  
S - SIGNAL - 2/C #14 (WEST PENN #972)  
R - REMOTE - 2/C #18 TWISTED SHIELDED PAIR AND 2/C #14 (WEST PENN #975 AND #972 RESPECTIVELY)

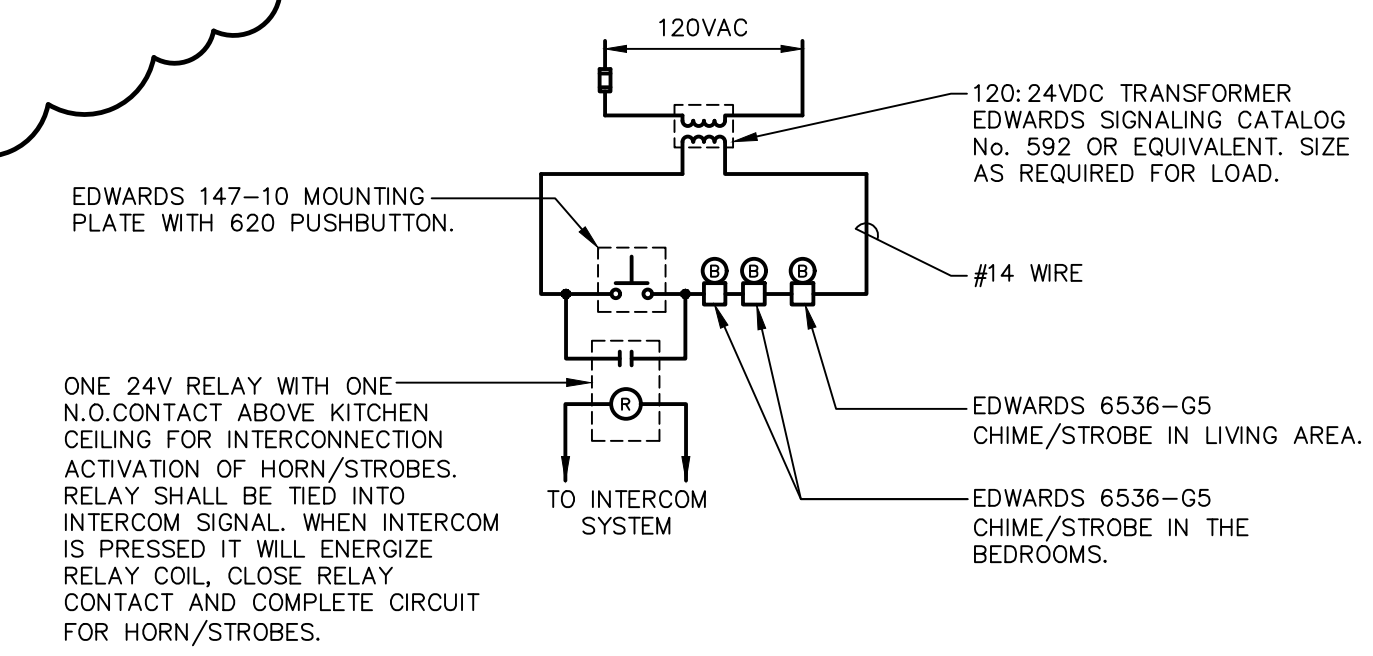
**FIRE ALARM GENERAL NOTES:**  
1. THE ENTIRE FIRE ALARM SYSTEM INSTALLATION SHALL BE A CLASS B SYSTEM AS DEFINED IN NFPA 72. REFER TO SPECIFICATIONS FOR ADDITIONAL SYSTEM REQUIREMENTS, AND COMPONENT DESCRIPTIONS.  
2. COMPLETE FIRE ALARM SYSTEM CONDUIT AND WIRING SHALL BE INSTALLED PER SUPPLIERS SHOP DRAWINGS. VERIFY CONDUIT AND WIRING REQUIREMENTS WITH SUPPLIER PRIOR TO BID.  
3. SEE FLOOR PLAN DRAWINGS FOR FIRE ALARM SYSTEM DEVICE QUANTITIES AND LOCATION.  
4. ALL FIRE ALARM WIRING SHALL BE PLENUM-RATED. WIRING SHALL BE INSTALLED ON J-HOOKS ABOVE ACCESSIBLE CEILINGS. WIRING SHALL BE INSTALLED IN 3/4" (MINIMUM) CONDUIT ABOVE INACCESSIBLE CEILINGS AND IN EXPOSED LOCATIONS.

**FIRE ALARM WIRING DIAGRAM**  
N.T.S.



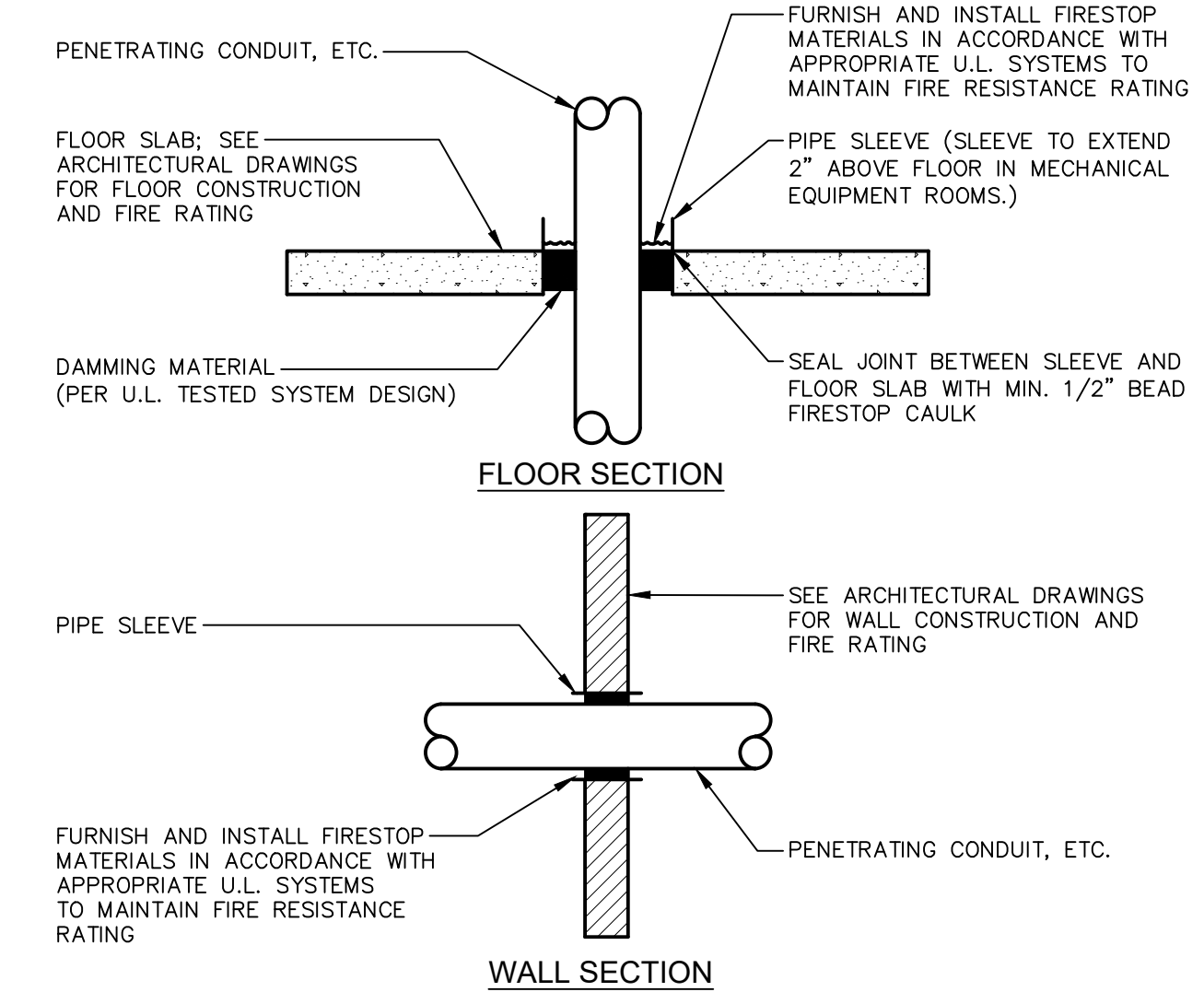
**NOTES:**  
1. PROVIDE CORNELL COMMUNICATION 4200 SYSTEM OR EQUAL.  
2. CONFIRM ALL LOCATIONS OF PANELS AND SIGNAGE WITH THE ARCHITECT PRIOR TO INSTALLATION.  
3. CONFIRM ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE MANUFACTURER.

**AREA OF RESCUE WIRING DIAGRAM**  
N.T.S.



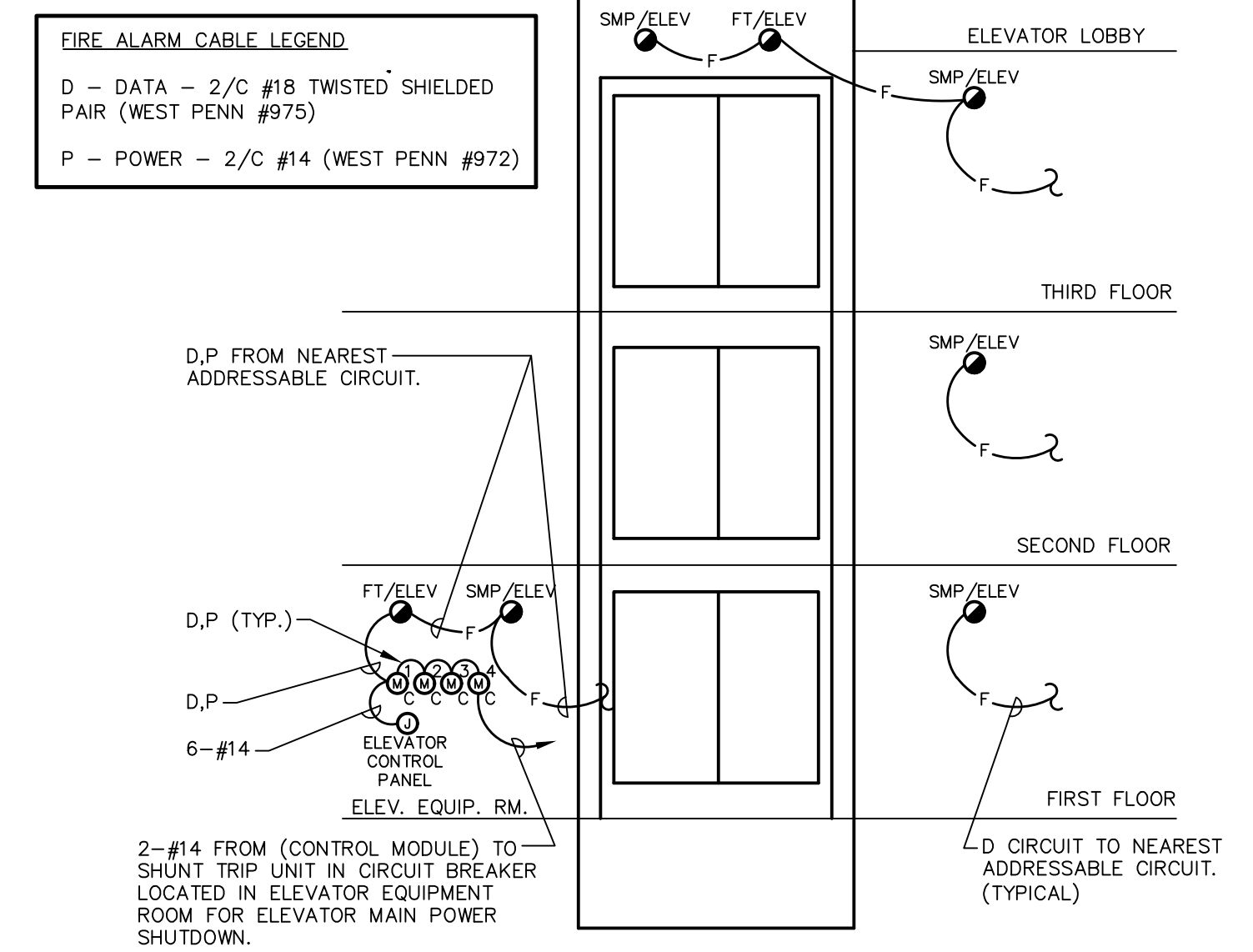
**TWO-BEDROOM S&H UNIT DOORBELL DETAIL**  
N.T.S.

UL FIRE STOP SYSTEMS FOR 1 AND 2 HOUR RATED WALL AND FLOOR ASSEMBLIES			
SERVICE	GYPSUM WALL PENETRATION	CONCRETE/MASONRY WALL PENETRATION	CONCRETE FLOOR PENETRATION
GRC CONDUIT (NOMINAL ≤ 6" DIA.)	WL1049	WS1055	CAJ1079
EMT CONDUIT (NOMINAL ≤ 4" DIA.)	WL1049	WS1055	CAJ1079
PVC CONDUIT/ INNER DUCT (≤ 2" DIA.)	WL2093	WJ2018	CAJ2031
CABLES (MAX. 3" DIA. CABLE BUNDLE)	WL3076	WJ3022	CAJ3133
CABLE TRAYS	WL4005	WJ4009	CAJ4029
BUS DUCT	WL6001	CAJ6008	CAJ6008



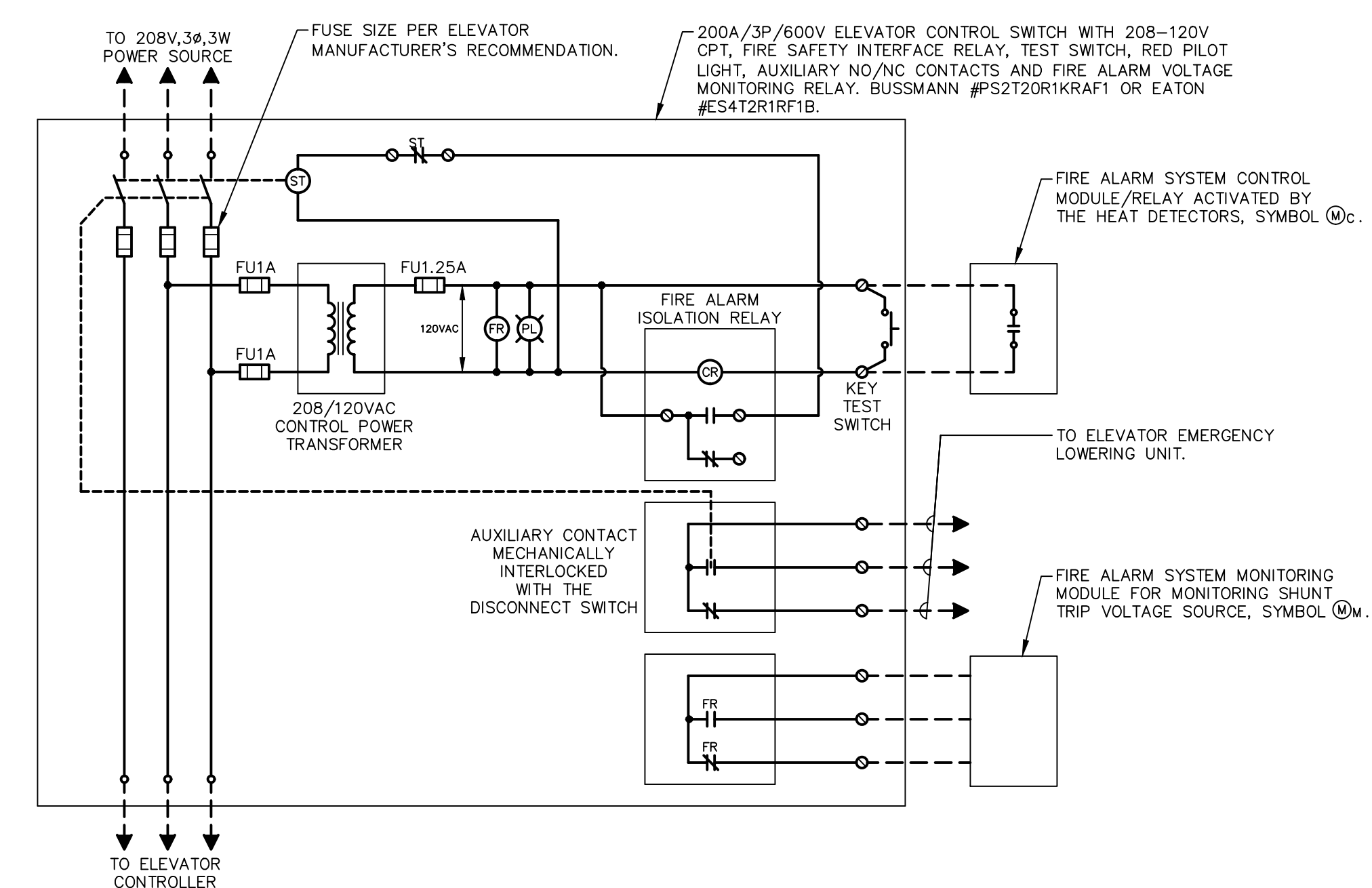
**NOTES:**  
1. WHERE CONDUIT, CABLES AND OTHER COMPONENTS PASS THROUGH FIRE OR SMOKE RATED WALLS OR FLOORS, PROVIDE NON-ASBESTOS SEAL ASSEMBLIES CLASSIFIED BY U.L. TO PROVIDE FIRE BARRIERS EQUAL TO OR GREATER THAN THE TIME RATING OF THE CONSTRUCTION BEING PENETRATED, WITH APPROPRIATE MATERIALS AND SYSTEMS THAT COMPLY WITH APPLICABLE CODES AND THAT HAVE BEEN TESTED IN ACCORDANCE WITH U.L. 1479 OR ASTM E814.  
2. GROUT, MORTAR OR GYPSUM BASED PRODUCTS SHALL NOT BE INSTALLED IN LIEU OF FIRESTOPPING MATERIALS AND U.L. SYSTEMS.  
3. FOR SLEEVED PENETRATIONS, FIRESTOP ANNULAR SPACE, IF ANY, BETWEEN SLEEVE AND ADJACENT CONSTRUCTION TO MEET U.L. SYSTEM REQUIREMENTS. SEE NOTE 2 ABOVE.  
4. THIS CONTRACTOR SHALL FIRESTOP ALL MISCELLANEOUS OPENINGS IN FIRE-RATED CONSTRUCTION RESULTING FROM HIS WORK.  
5. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS TO ENGINEER, INCLUDING U.L. RATED SYSTEM NUMBER AND DETAIL FOR EACH TYPE OF PENETRATION AND CONFIGURATION.  
6. SLEEVES USED FOR CABLE RISERS THROUGH FLOORS OR WALLS SHALL BE INSTALLED PER THE ABOVE FLOOR OR WALL SECTIONS. IN ADDITION, FIRESTOP MATERIAL SHALL BE PROVIDED INSIDE SLEEVE AFTER CABLES ARE COMPLETELY INSTALLED.

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



**ADDRESSABLE FIRE ALARM SYSTEM, EQUIP. RM AND SHAFT SPRINKLERED ELEVATOR RECALL FIRE ALARM RISER**  
N.T.S.

**NOTES:**  
1. ELEVATOR RECALL PHASE 1: (PROTECTS PUBLIC)  
CONTROL MODULE 1: RECALL ELEVATOR TO ALTERNATE FLOOR (IF SMOKE DETECTOR IN LOBBY OF DESIGNATED FLOOR IS IN ALARM).  
CONTROL MODULE 2: RECALL ELEVATOR TO DESIGNATED FLOOR (IF SMOKE DETECTOR IN LOBBY OF ALTERNATE FLOOR IS IN ALARM).  
2. ELEVATOR SHUTDOWN: (PROTECTS FIREFIGHTERS)  
CONTROL MODULE 3: RECALL ELEVATOR TO NEAREST SAFE FLOOR. ACTIVATED BY SMOKE DETECTORS IN ELEVATOR EQUIPMENT ROOM AND/OR HOISTWAY.  
CONTROL MODULE 4: SHUTS DOWN POWER TO ELEVATOR. ACTIVATED BY HEAT DETECTORS IN ELEVATOR EQUIPMENT ROOM AND/OR HOISTWAY.  
3. VERIFY ALL CONTROL MODULE PROGRAMMING INCLUDING ALTERNATE AND DESIGNATED FLOOR WITH AHJ.  
4. MOUNT HEAT DETECTOR AND SMOKE DETECTOR HEADS WITHIN 24" OF SPRINKLER HEAD(S).  
5. ALL CONDUIT IN ELEVATOR SHAFT AND PIT SHALL BE GRC AND ALL DEVICES SHALL BE WEATHERPROOF.

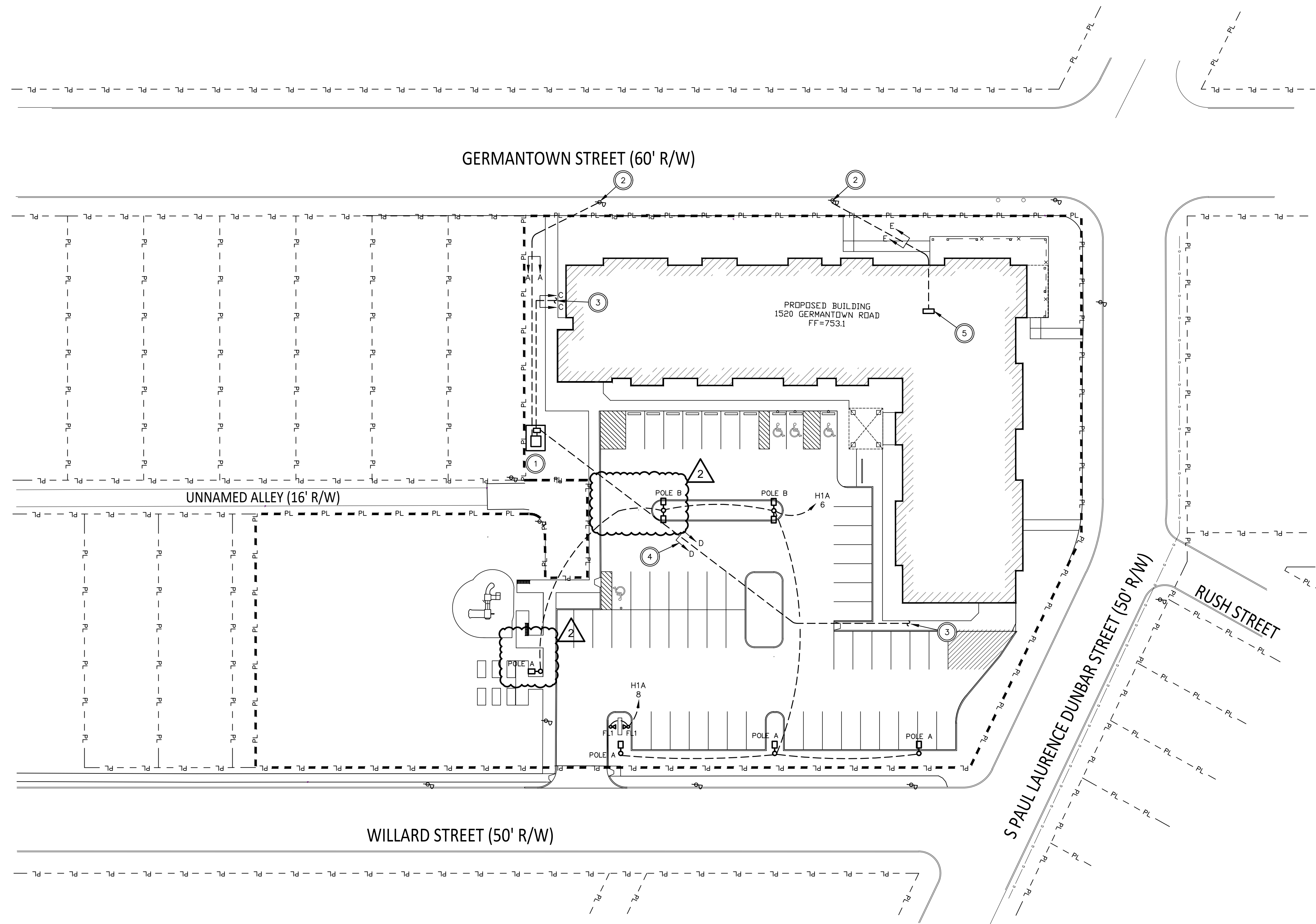


**ELEVATOR DISCONNECT/SHUNT TRIP WIRING DIAGRAM**  
N.T.S.

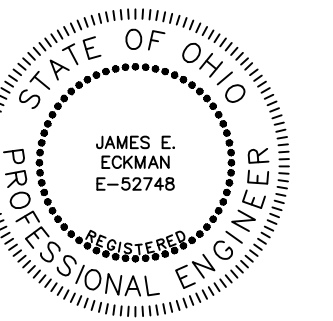
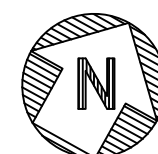
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SITE PLAN - ELECTRICAL



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

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△	BULLETIN 02 - 09/19/2023

SITE PLAN - ELECTRICAL  
GERMANTOWN CROSSING  
DAYTON OHIO



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Chief Engineer  
SIGNATURE DATE

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BULLETIN 02 - 09/19/2023

HVAC SCHEDULES

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DRAWING NUMBER

Air Spreadsheet - Per ANSI/ASHRAE Standard 62.1-2016 and 170, including VAMC Guidelines

Table with 20 columns: Zone No., Room No., Room Description, Floor area of zone square feet, Zone population override, largest # of people expected, Space type, P/100SQFT, Pz, Rp, Ra, Pz\*Rp, Az\*Ra, Ez, Required OA, Proposed OA, Area Only Minimum Outside Air, Vpz, Vpzm, Final Heating CFM, Primary OA fraction.

Air Spreadsheet - Per ANSI/ASHRAE Standard 62.1-2016 and 170, including VAMC Guidelines

Table with 20 columns: Zone No., Room No., Room Description, Floor area of zone square feet, Zone population override, largest # of people expected, Space type, P/100SQFT, Pz, Rp, Ra, Pz\*Rp, Az\*Ra, Ez, Required OA, Proposed OA, Area Only Minimum Outside Air, Vpz, Vpzm, Final Heating CFM, Primary OA fraction.

Air Spreadsheet - Per ANSI/ASHRAE Standard 62.1-2016 and 170, including VAMC Guidelines

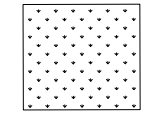



Table with 20 columns: Zone No., Room No., Room Description, Floor area of zone square feet, Zone population override, largest # of people expected, Space type, P/100SQFT, Pz, Rp, Ra, Pz\*Rp, Az\*Ra, Ez, Required OA, Proposed OA, Area Only Minimum Outside Air, Vpz, Vpzm, Final Heating CFM, Primary OA fraction.

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# LANDSCAPE SYMBOLS:

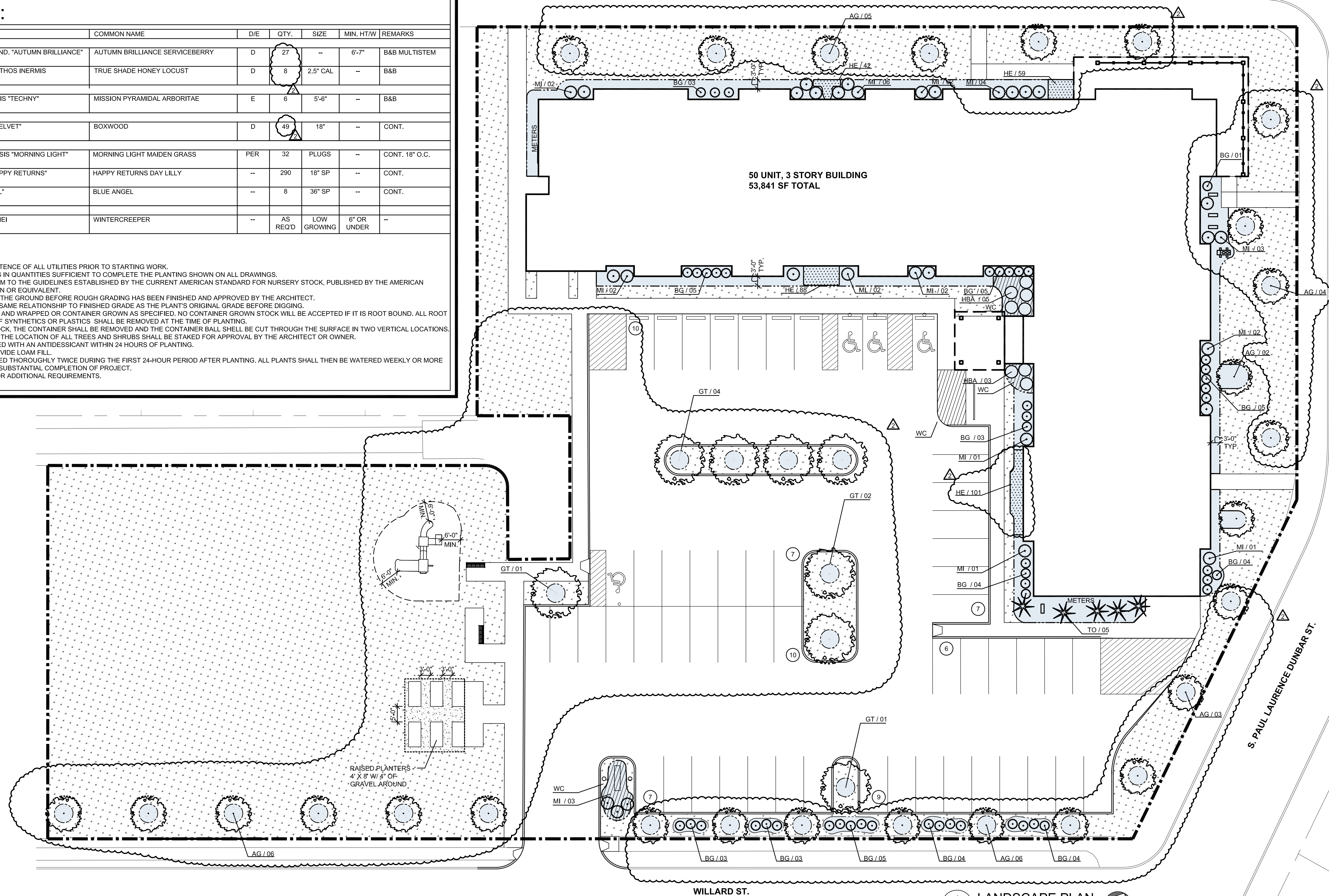
	INDICATES GRASS AREAS. SEE SPECIFICATIONS FOR SEED MIXTURE (ALL DISTURBED AREAS ARE TO BE SEEDED)		INDICATES DOUBLE SHREDED DIED HARDWOOD MULCH BOUNDARIES		PLAYGROUND FALL PROTECTION		INDICATES GRAVEL AREAS
---	---	---	---	---	----------------------------	--	------------------------

# PLANT LIST:

KEY	BOTANICAL NAME	COMMON NAME	D/E	QTY.	SIZE	MIN. HT/W	REMARKS
<b>DECIDUOUS TREES</b>							
AG	AMELANCHIER GRAND "AUTUMN BRILLIANCE"	AUTUMN BRILLIANCE SERVICEBERRY	D	27	--	6'-7"	B&B MULTISTEM
GT	GLEDITSIA TRIACANTHOS INERMIS	TRUE SHADE HONEY LOCUST	D	8	2.5" CAL	--	B&B
<b>CONIFEROUS TREES</b>							
TO	THUJA OCCIDENTALIS "TECHNY"	MISSION PYRAMIDAL ARBORITAE	E	6	5'-6"	--	B&B
<b>SHRUBS</b>							
BG	BUXUX X. "GREEN VELVET"	BOXWOOD	D	49	18"	--	CONT.
<b>GRASSES</b>							
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.
<b>GROUND COVER</b>							
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.



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



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LANDSCAPE PLAN  
 GERMANTOWN CROSSING  
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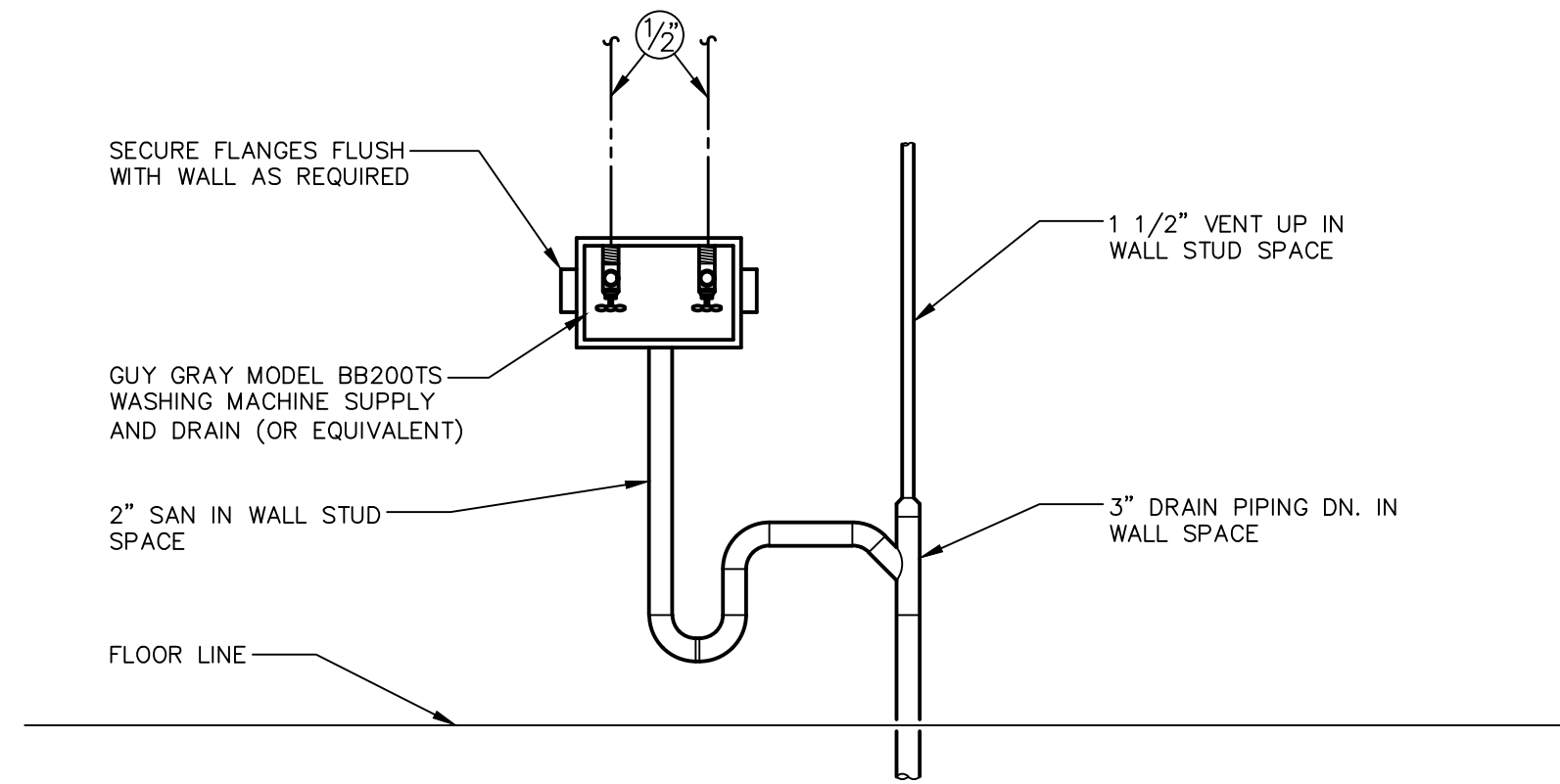
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 DATE  
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L100  
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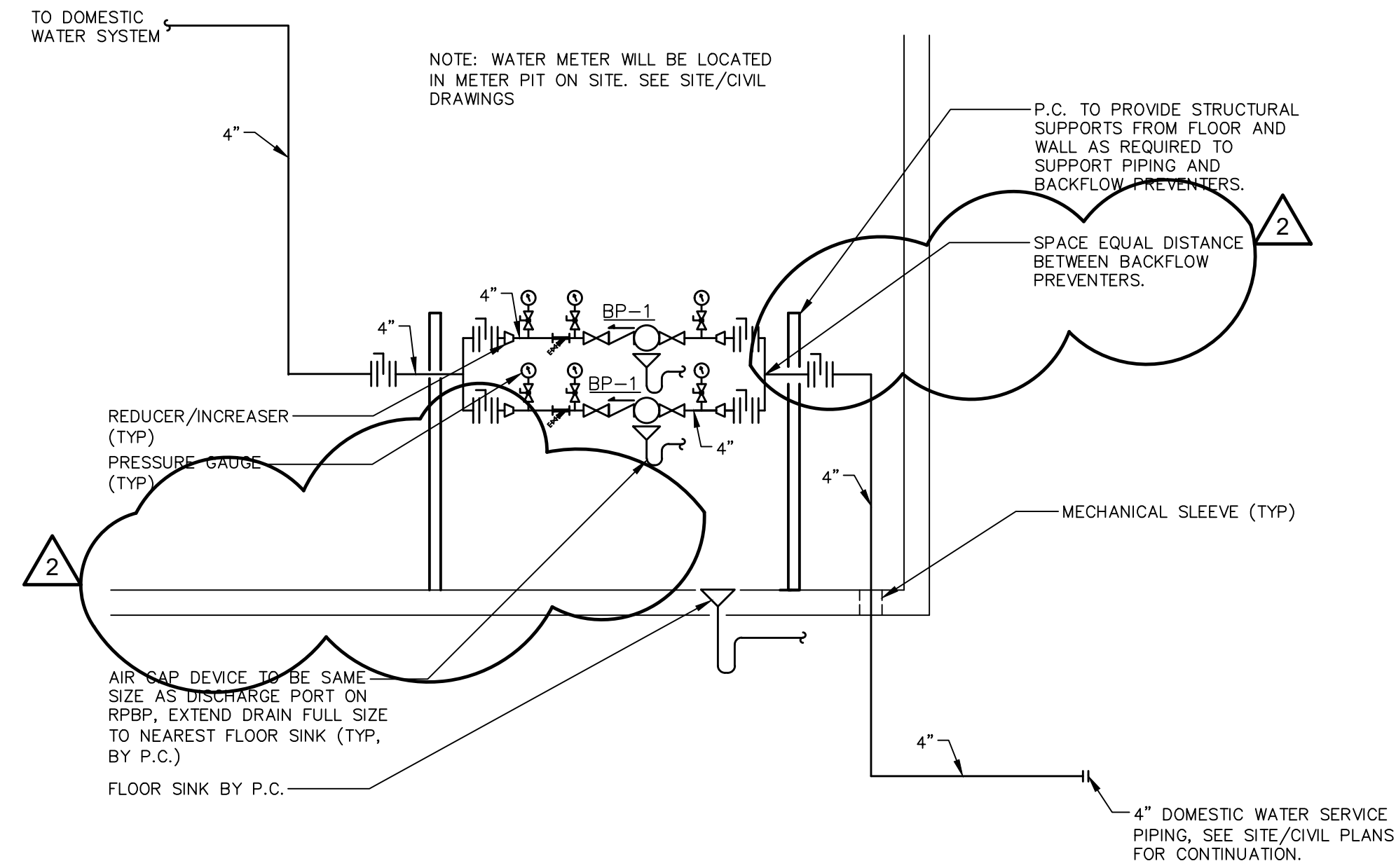


*Chief Schoonover* 3/31/23  
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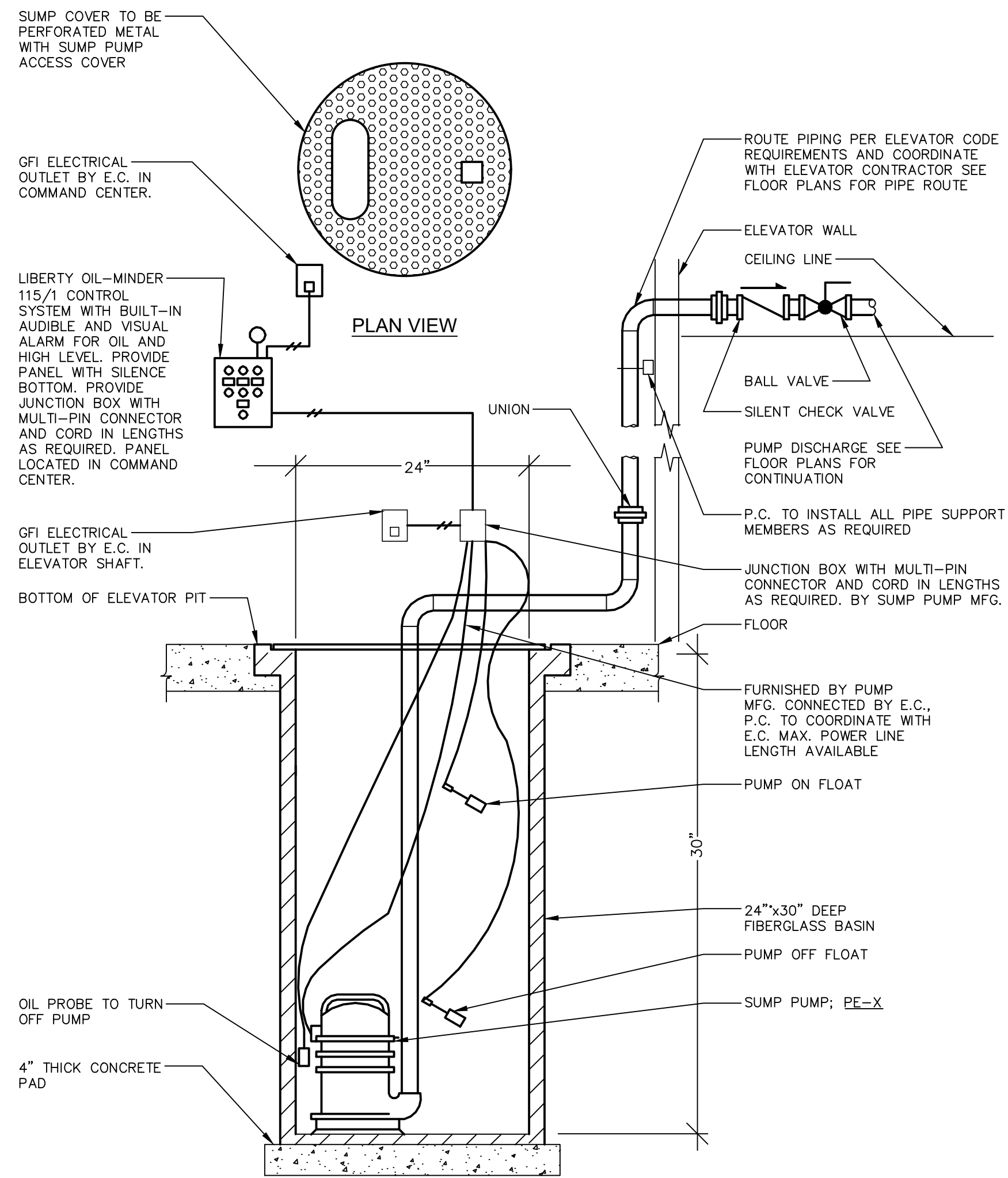
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△	BULLETIN 01 - 07/17/2023
△	BULLETIN 02 - 09/19/2023



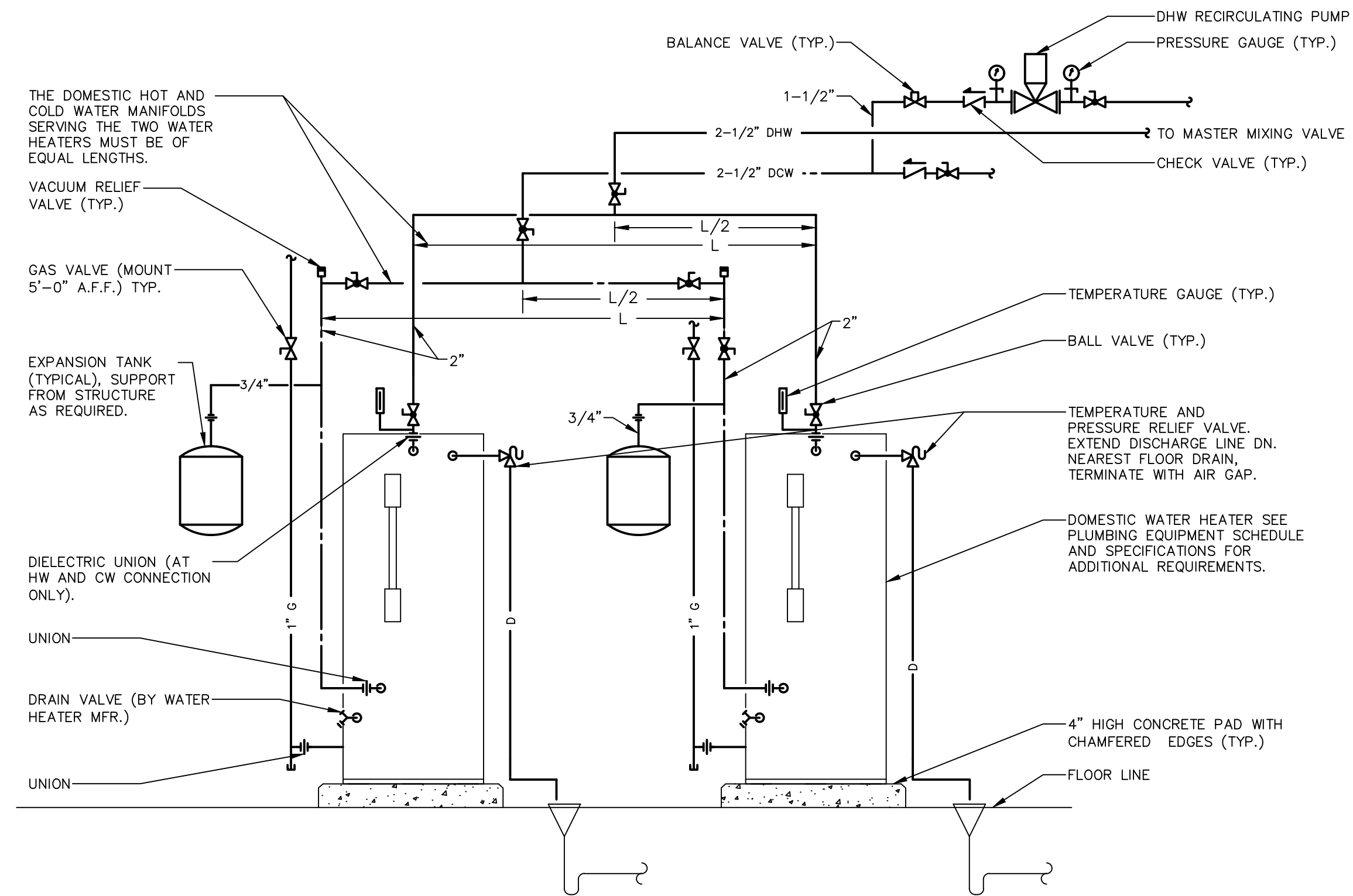
**WASHING MACHINE CONNECTION**  
N.T.S.



**DOMESTIC WATER SERVICE DETAIL**  
N.T.S.



**ELEVATOR SUMP PUMP**  
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.

PLUMBING DETAILS

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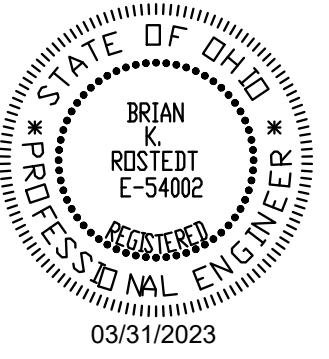
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**2ND FLOOR FRAMING PLAN**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**

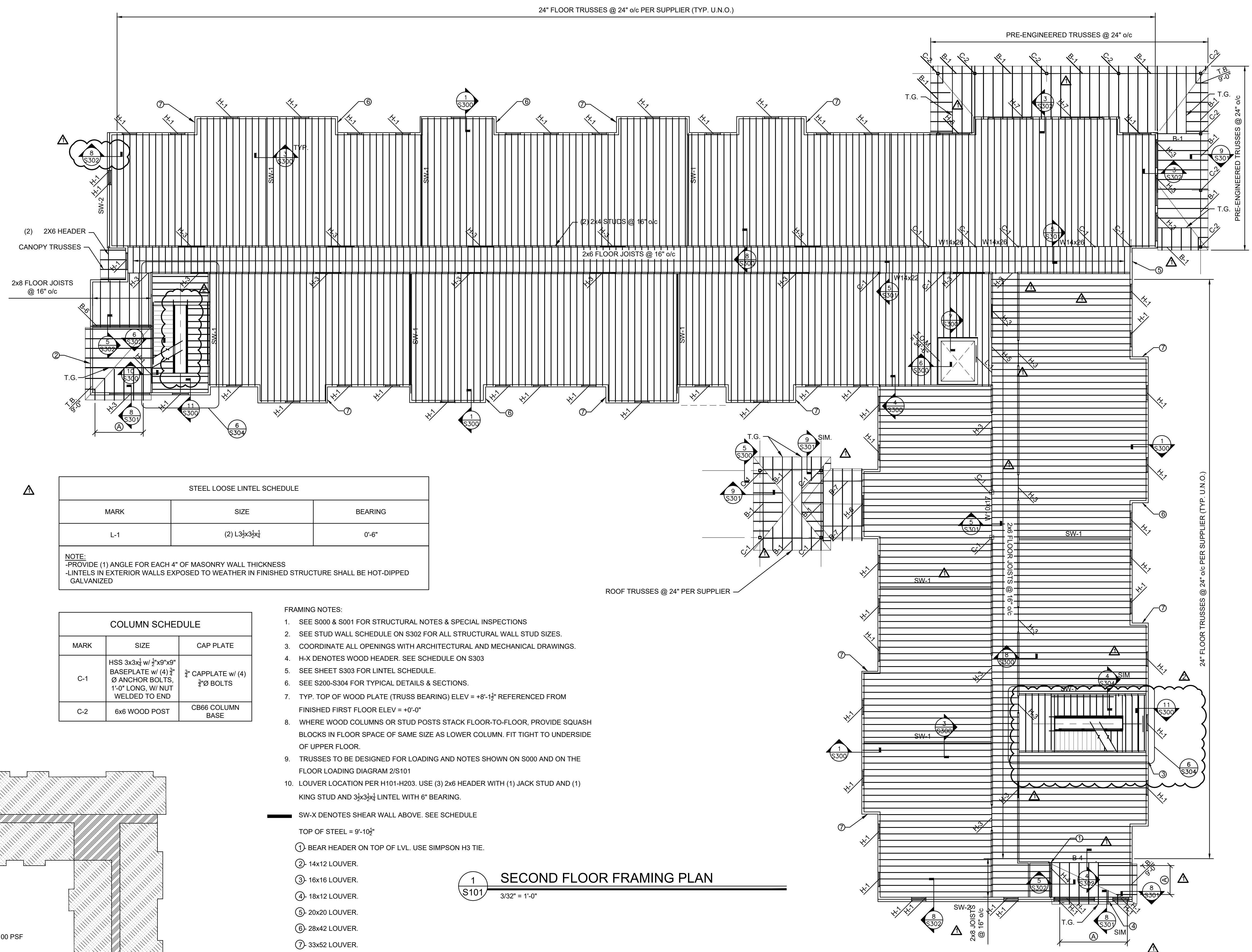


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**S101**  
 DRAWING NUMBER



▲

STEEL LOOSE LINTEL SCHEDULE		
MARK	SIZE	BEARING
L-1	(2) L3x3x1/4	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 3x3x1/4 w/ 1/2"x9"x9" BASE PLATE w/ (4) 3/8" ANCHOR BOLTS, 1'-0" LONG, W/ NUT WELDED TO END	3/8" CAPPLATE w/ (4) 3/8" BOLTS
C-2	6x6 WOOD POST	CB66 COLUMN BASE

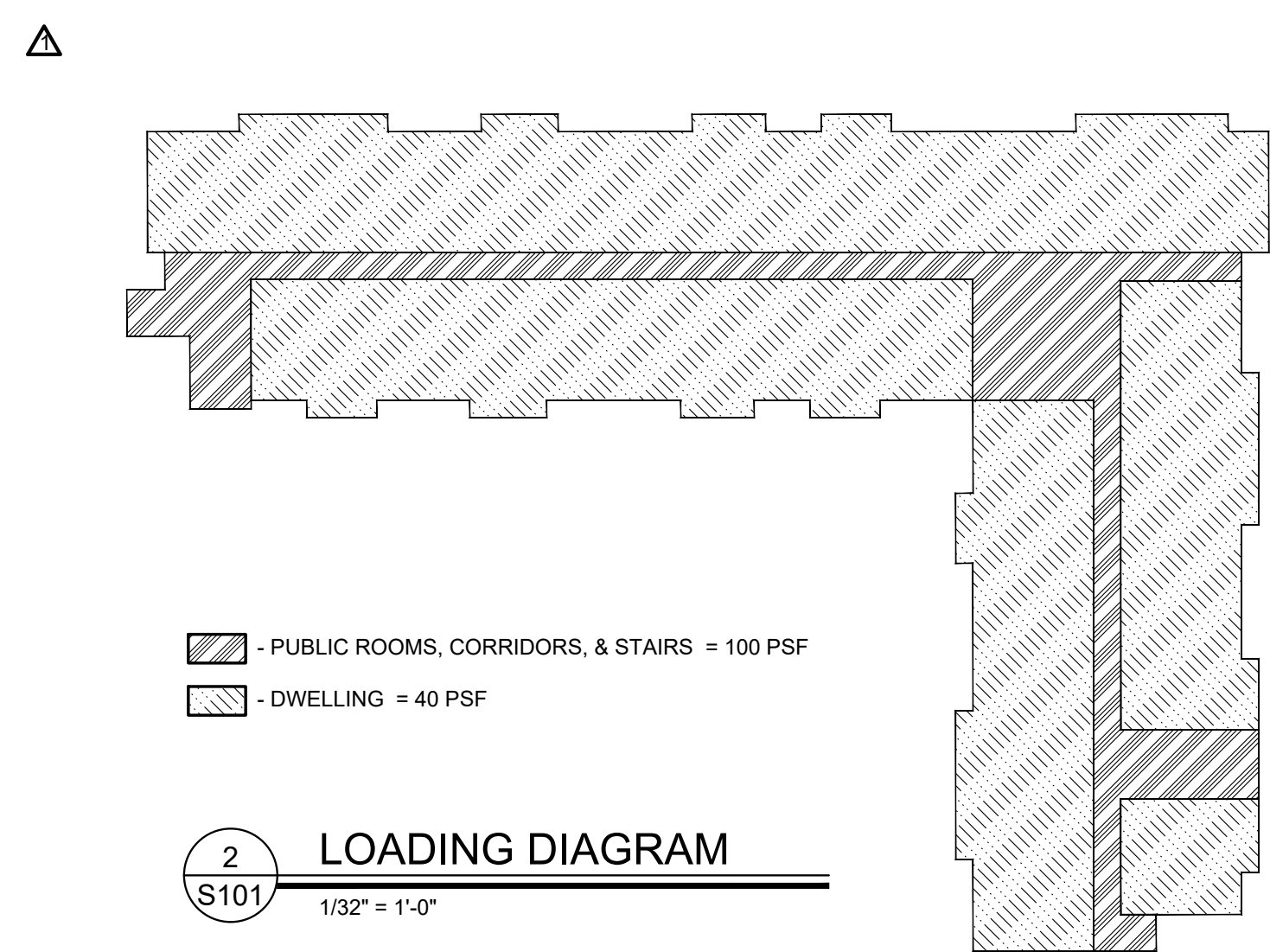
- FRAMING NOTES:
- SEE S000 & S001 FOR STRUCTURAL NOTES & SPECIAL INSPECTIONS
  - SEE STUD WALL SCHEDULE ON S302 FOR ALL STRUCTURAL WALL STUD SIZES.
  - COORDINATE ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - H-X DENOTES WOOD HEADER. SEE SCHEDULE ON S303
  - SEE SHEET S303 FOR LINTEL SCHEDULE.
  - SEE S200-S304 FOR TYPICAL DETAILS & SECTIONS.
  - TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +8'-1 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 3/4"x3/4" LINTEL WITH 6" BEARING.

— SW-X DENOTES SHEAR WALL ABOVE. SEE SCHEDULE

TOP OF STEEL = 9'-10 1/2"

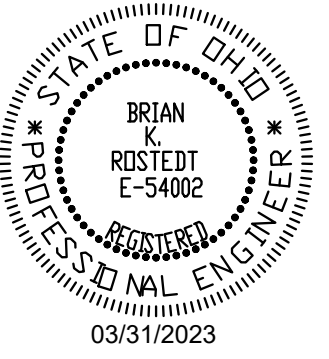
- ① BEAR HEADER ON TOP OF LVL. USE SIMPSON H3 TIE.
- ② 14x12 LOUVER.
- ③ 16x16 LOUVER.
- ④ 18x12 LOUVER.
- ⑤ 20x20 LOUVER.
- ⑥ 28x42 LOUVER.
- ⑦ 33x52 LOUVER.
- ⑧ ROOF TRUSSES @ 24" o/c

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



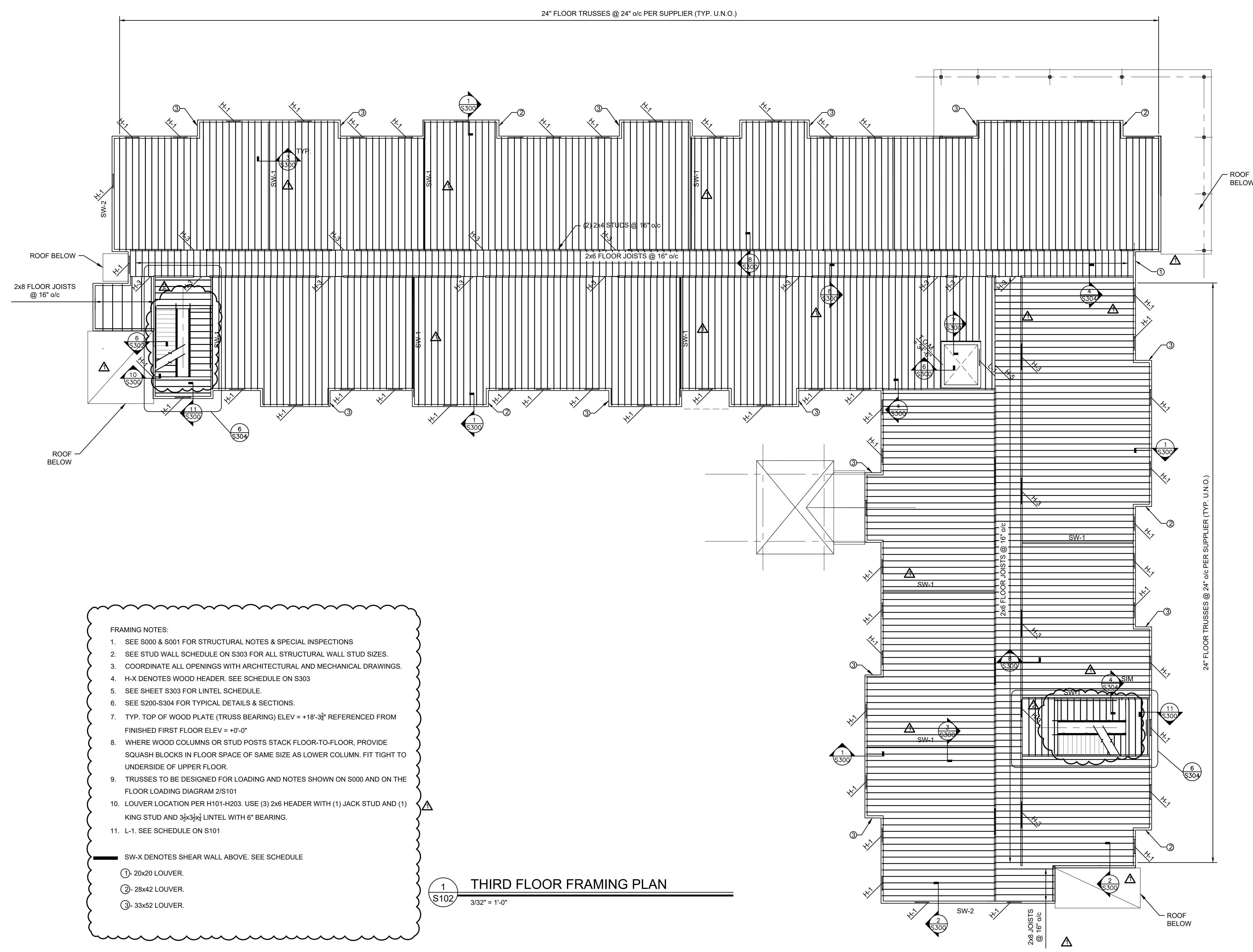
▨ - PUBLIC ROOMS, CORRIDORS, & STAIRS = 100 PSF  
 ▩ - DWELLING = 40 PSF

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



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**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-S304 FOR TYPICAL DETAILS & SECTIONS.
- TYP. TOP OF WOOD PLATE (TRUSS BEARING) ELEV = +18'-3 $\frac{3}{4}$ " 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 $\frac{1}{2}$ x3 $\frac{1}{2}$ " LINTEL WITH 6" BEARING.
- 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**  
**THIRD FLOOR FRAMING PLAN**  
 3/32" = 1'-0"

**3RD FLOOR FRAMING PLAN**  
**GERMANTOWN CROSSING**  
**DAYTON OHIO**

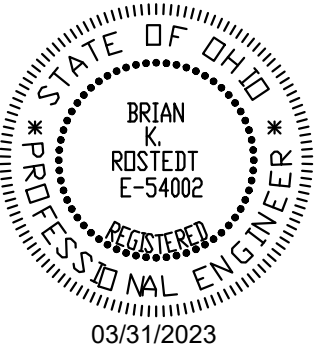


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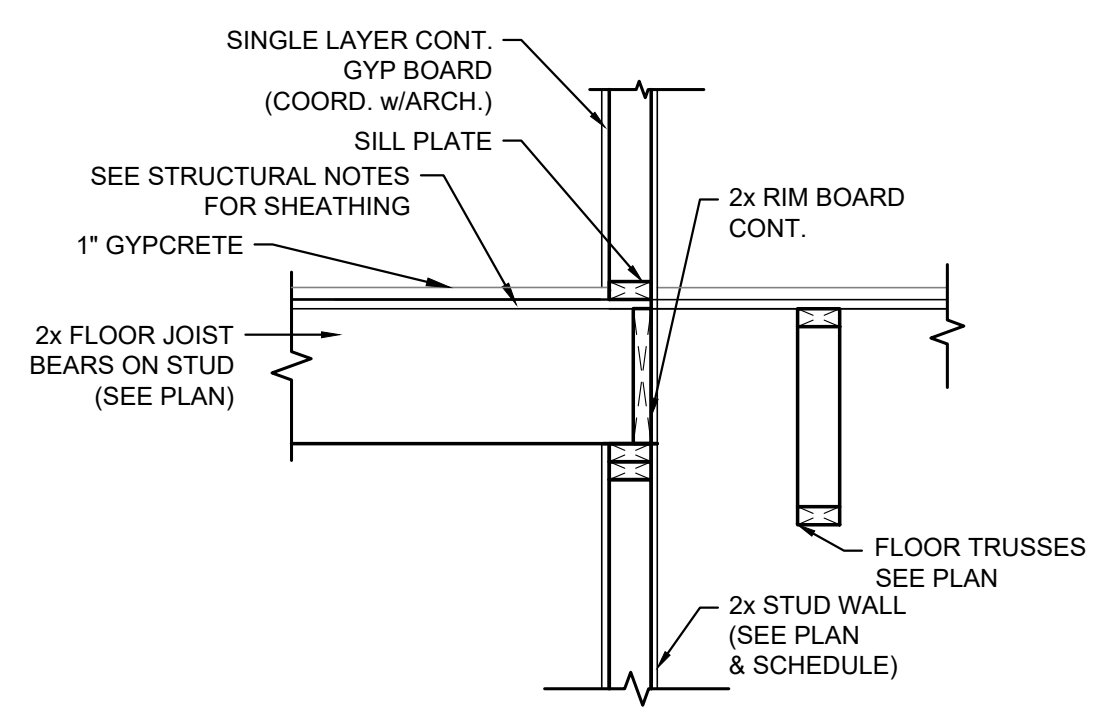
03/31/2023  
 DATE  
 82A21  
 PROJECT NUMBER

**S102**  
 DRAWING NUMBER

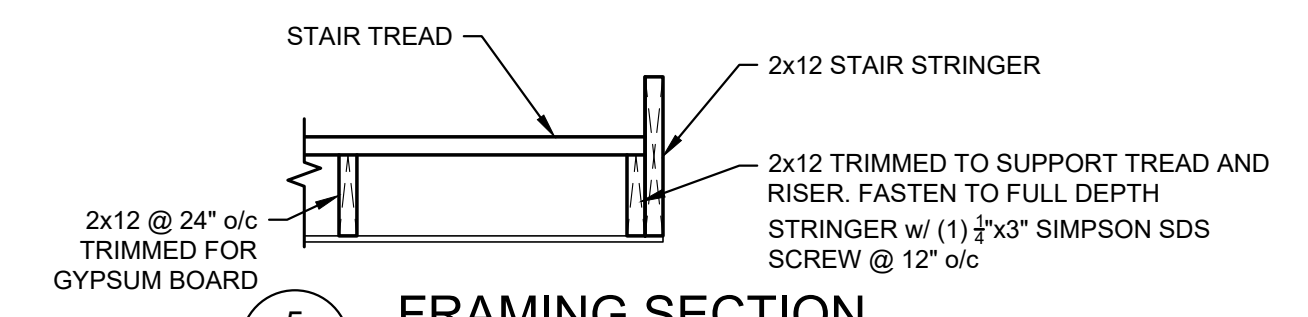


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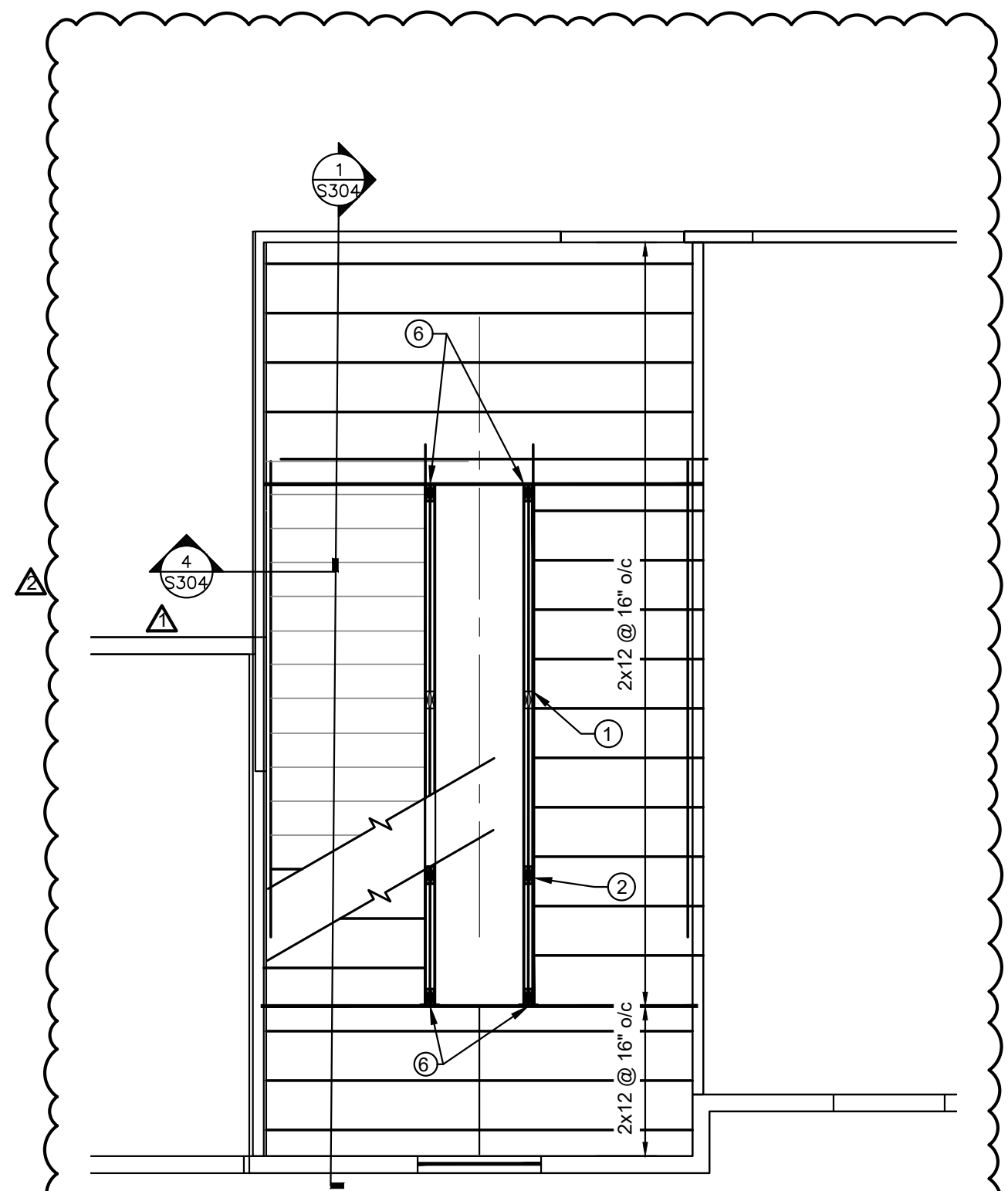
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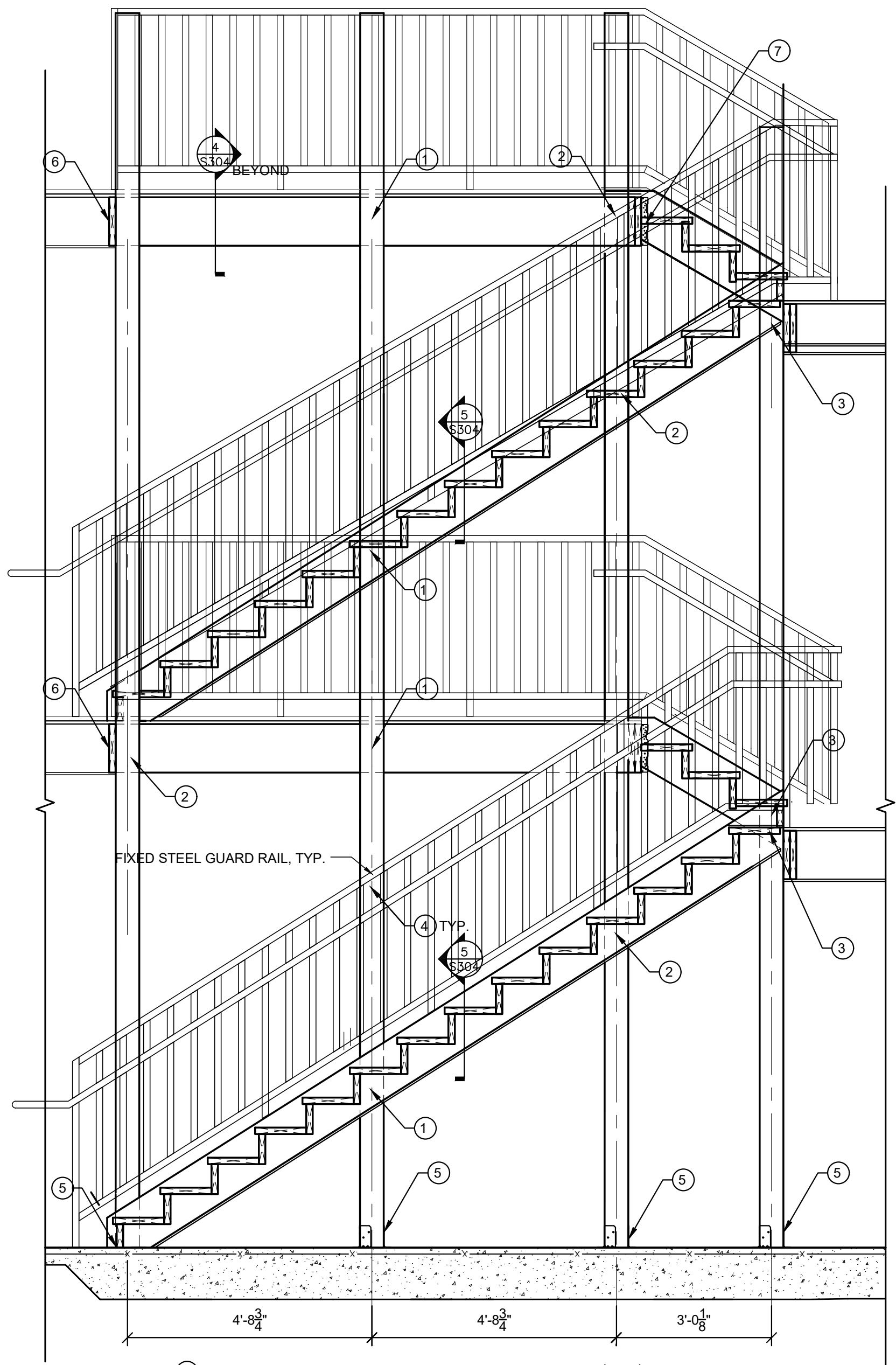
**4 FRAMING SECTION**  
S304 3/4" = 1'-0"



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



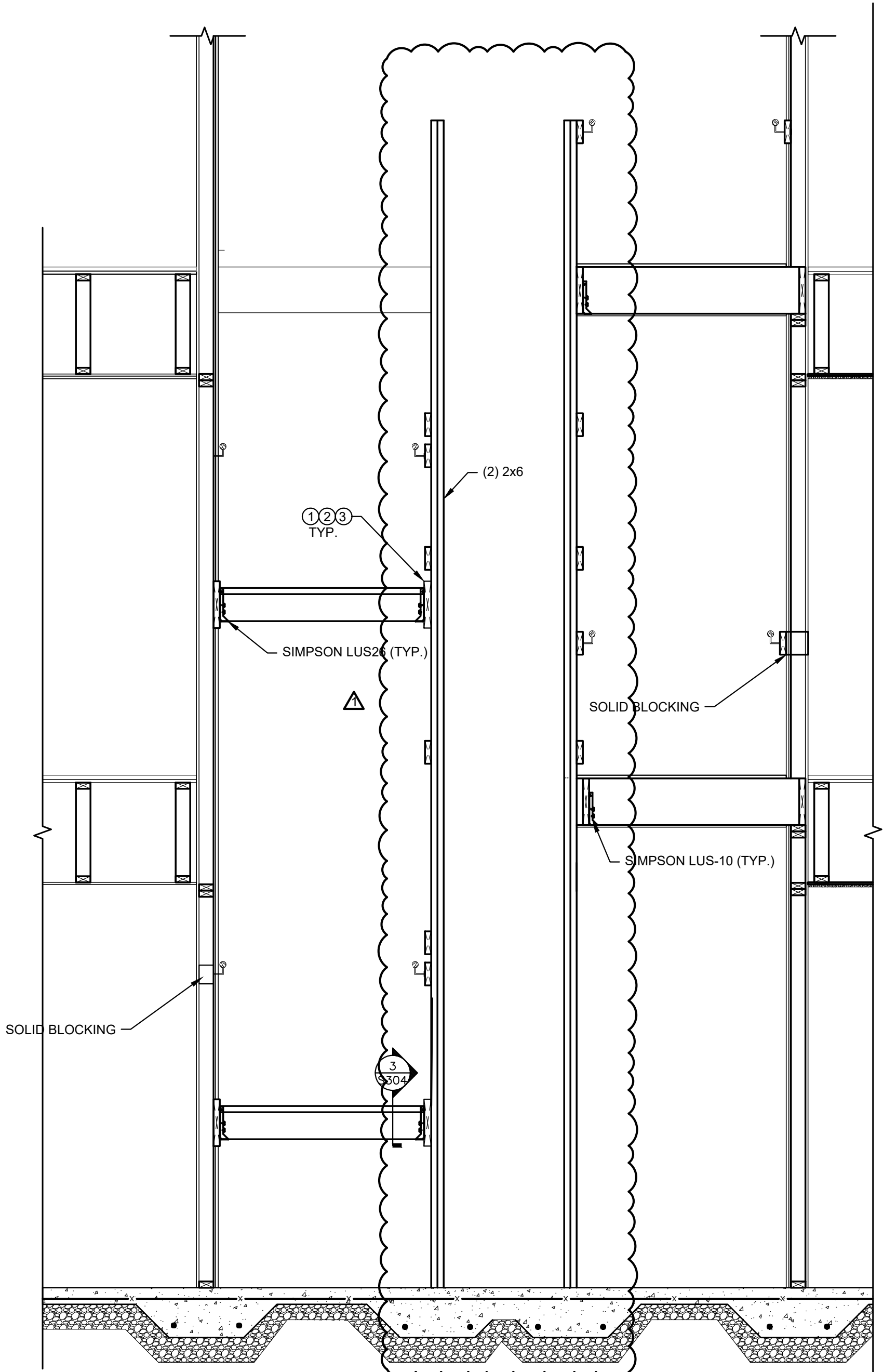
**6 STAIR DETAIL**  
S304 1/4" = 1'-0"



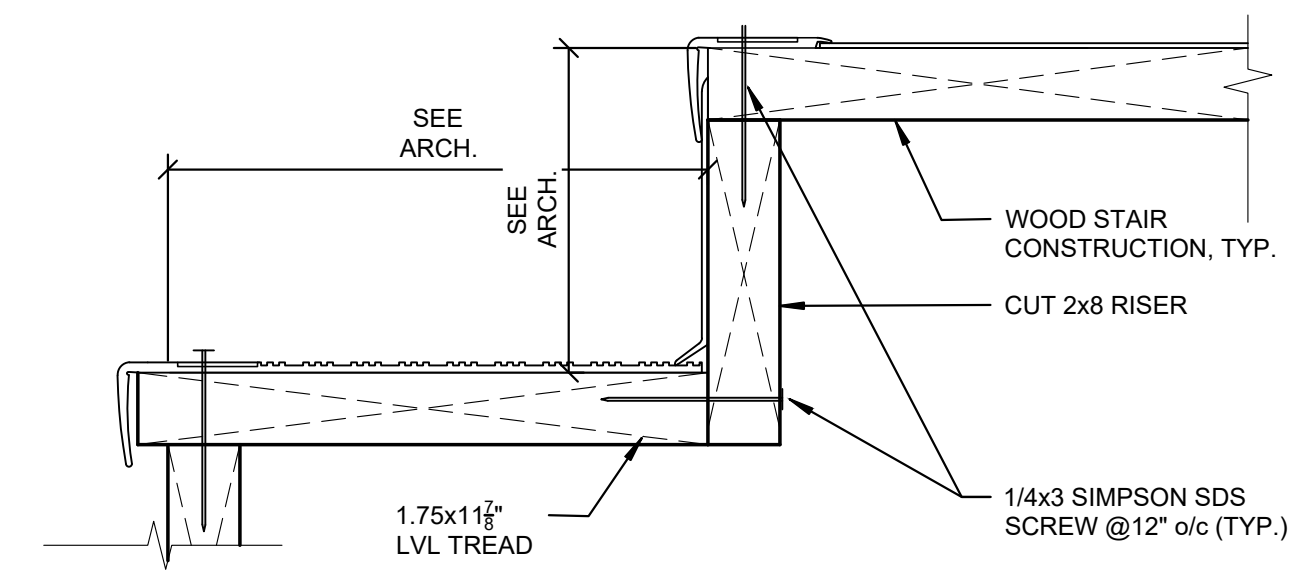
- 1 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (6) 1/4"Øx3/4" SIMPSON SDS SCREWS
- 2 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (5) 1/4"Øx3/4" SIMPSON SDS SCREWS
- 3 FASTEN 2x12 STRINGER/HEADER TO (2) 2x6 POSTS w/ (2) 1/4"Øx3/4" SIMPSON SDS SCREWS
- 4 FASTEN PLATE TO POST w/ (3) 12d NAILS
- 5 (2) SIMPSON RPBZ POST BASE w/ 3/8"Ø SIMPSON TITEN HD ANCHOR
- 6 FASTEN JOIST TO POST w/ (3) 12d NAILS
- 7 SIMPSON LSC HANGER

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

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



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



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

**STAIR SECTIONS AND DETAILS**  
**GERMANTOWN CROSSING**  
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DRAWING NUMBER

**SECTION 00 0110  
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C501	EROSION CONTROL DETAILS
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C601	SITE DETAILS
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**ARCHITECTURAL**

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IMPACT SOUND CONTROL MATTING**

**PART I GENERAL**

**1.1 SUMMARY**

- A. Section includes gypsum-cement-based, self-leveling underlayment for application over Quiet Qurl sound mat. System Includes:
  - 1. Self-leveling gypsum cement at a minimum of 2000 psi.
  - 2. Keene Building Products' Quiet Qurl 52/013 MC sound mat
  - 3. Reinforcement mesh
  - 4. Floor primer
  - 5. Perimeter Isolation Tape

**1.2 SUBMITTALS**

- A. Provide Manufacturer's Data for products specified.
- B. Product certificates.

**1.3 DELIVERY, STORAGE AND HANDLING:** Materials shall be delivered in their original, unopened packages, and protected from exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.

**1.4 SITE CONDITIONS:** Environmental Requirements: Before, during and after installation of self-leveling gypsum cement and Keene Building Products' Quiet Qurl sound mat, building shall be enclosed and maintained at a temperature above 50 degrees F (10 degrees C).

**PART 2 PRODUCTS**

**2.1 MATERIALS**

- A. Gypsum Cement: Gypsum Concrete, which meets the criteria of 2000 PSI as per required by Keene Building Products. All others must receive prior approval.
- B. Entangled net sound mat laminated to a point bonded moisture resistant fabric.
  - 1. Quiet Qurl 52/013 MC as manufactured by Keene Building Products, Mayfield Heights, OH
  - 2. Acceptable alternative which meets the above criteria
- C. Reinforcement Mesh: Keene Building Products' Quiet Qurl RWT or 3.4 lbs./sq. yd. galvanized metal lath.
- D. Sand Aggregate: Sand should meet specifications of the manufacturer of the self-leveling gypsum concrete.
- E. Mix water: Potable, free from impurities
- F. Subfloor Primer: Required by selected manufacturer of self-leveling gypsum concrete
- G. Sealer: Required by selected manufacturer of self-leveling gypsum concrete

**PART 3 EXECUTION**

**3.1 SURFACE CONDITION**

- A. Per manufacturer's specifications.

**3.2 APPLICATION OF QUIET QURL 52/013 MC**

- A. Quiet Qurl 52/013 MC Installation: Install Quiet Qurl following the manufacturer's recommended installation instructions as provided by Keene Building Products.

**3.3 APPLICATION OF CEMENTITIOUS FLOORING**

- A. General: Mix and apply underlayment components according to manufacturer's written instructions.
- B. Thickness of Cementitious Flooring should meet standards provided by Keene Building Products dependent upon type of Quiet Qurl sound mat chosen:
  - 1. Quiet Qurl 52/013 MC: a minimum of 1" inch of cementitious flooring
- C. Apply underlayment to produce uniform, level surface.
- D. Cure underlayment. Per manufacturer's specifications.

**END OF SECTION 03 5413**

**SECTION 07 2500  
WEATHER BARRIERS**

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Water-resistive sheet materials
- B. Sheet weather barriers
- C. Self-adhesive flexible flashing

**1.2 RELATED REQUIREMENTS**

- A. Section 07 0500 - Common Work Results for Thermal and Moisture Protection

**1.3 REFERENCE STANDARDS**

- A. AATCC Test Method 127 - Water Resistance: Hydrostatic Pressure Test; current edition.
- B. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; current edition.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; current edition.

**1.4 SUBMITTALS**

- A. Product Data: Provide data on material characteristics.
- B. Manufacturer's Installation Instructions: Indicate preparation.

**1.5 FIELD CONDITIONS**

- A. Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.

**PART 2 - PRODUCTS**

**2.1 WATER-RESISTIVE SHEET MATERIALS:** Asphalt Felt: ASTM D226 Type I felt (No.15).

**2.2 SHEET WEATHER BARRIER MATERIALS (WATER VAPOR PERMEABLE AND WATER-RESISTIVE)**

- A. Weather Barrier Sheet:
  - 1. Water Penetration Resistance: Withstand a water head of 21 inches (55 cm), minimum, for minimum of 5 hours, when tested in accordance with AATCC 127.
  - 2. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 50 or less, when tested in accordance with ASTM E84.
  - 3. ***Basis of Design: ZIPsystem SHEATHING & TAPE by Huber Engineered Woods Zip System R-Sheathing***

**2.3 SELF-ADHESIVE FLEXIBLE SHEET FLASHING**

- A. Flexible Flashing: Self-adhesive sheet flashing complying with ASTM D1970, except slip resistance requirement is waived if not installed on a roof.
  - 1. Composition: Modified bituminous sheet laminated to polyethylene sheet.
  - 2. Thickness: 25 mil (0.64 mm), nominal.
  - 3. Products:
    - a. Grace VYCOR Plus Self-Adhered Flashing.

**2.4 ACCESSORIES**

- A. Thinners and Cleaners: As recommended by material manufacturer.
- B. Adhesives and Sealants: As recommended by the primary material manufacturer.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Verify that surfaces and conditions are ready to accept the work of this section.



**3.2 PREPARATION**

- A. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
- B. Clean and prime substrate surfaces to receive adhesives in accordance with manufacturer's instructions.

**3.3 INSTALLATION**

- A. Install materials in accordance with manufacturer's instructions.
- B. Sheet Weather Barriers: Install continuous air tight barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces. Fasten sheets as follows:
- C. Attach to framed construction with fasteners extending through sheathing into framing. Space fasteners at 12 to 18 inches (305 to 460 mm) on center along each framing member supporting sheathing.
- D. For applications specified to be air tight, seal seams, laps, penetrations, tears, and cuts with self-adhesive tape; use only large-headed, gasketed fasteners recommended by the manufacturer.
- E. Where stud framing rests on concrete or masonry, extend lower edge of sheet at least 4 inches (100 mm) below bottom of framing and seal to foundation with sealant.
- F. Install over jamb flashings.
- G. Self-Adhesive Sheet Flashing:
  - 1. Prepare substrate in manner recommended by sheet manufacturer; fill and tape joints in substrate and between dissimilar materials.
  - 2. Lap sheets shingle-fashion to shed water and seal laps air tight.
  - 3. Once sheets are in place, press firmly into substrate with resilient hand roller; ensure that all laps are firmly adhered with no gaps or fishmouths.
  - 4. Use same material, or other material approved by sheet manufacturer for the purpose, to seal to adjacent construction and as flashing.
  - 5. At wide joints, provide extra flexible membrane allowing joint movement.
  - 6. At window and door penetrations, install according to manufacturer's Severe Exposure installation method.
- H. Openings and Penetrations:
  - 1. Install flashing over sills, covering entire sill frame member, extending at least 5 inches (125 mm) onto weather barrier and at least 6 inches (150 mm) up jambs; mechanically fasten stretched edges.
  - 2. At openings to be filled with frames having nailing flanges, seal head and jamb flanges using a continuous bead of sealant compressed by flange and cover flanges with at least 4 inches (100 mm) wide; do not seal sill flange.
  - 3. At openings to be filled with non-flanged frames, seal weather barrier to all sides of opening framing, using flashing at least 9 inches (230 mm) wide, covering entire depth of framing.
  - 4. At head of openings, install flashing under weather barrier extending at least 2 inches (50 mm) beyond face of jambs; seal weather barrier to flashing.
  - 5. At interior face of openings, seal gap between window/door frame and rough framing, using joint sealant over backer rod.
  - 6. Service and Other Penetrations: Form flashing around penetrating item and seal to weather barrier surface.

**3.4 FIELD QUALITY CONTROL**

- A. Do not cover installed weather barriers until required inspections have been completed.
- B. Obtain approval of installation procedures by the weather barrier manufacturer based on a mock-up installed in place, prior to proceeding with remainder of installation.

**3.5 PROTECTION**

- A. Do not leave materials exposed to weather longer than recommended by manufacturer.

**END OF SECTION 07 2500**

**SECTION 07 5423  
THERMOPLASTIC POLYOLEFIN MEMBRANE ROOFING**

**PART 1 GENERAL**

**1.01 GENERAL CONDITIONS**

- A. The General Conditions, Modifications to General Conditions, Supplementary or Special Conditions and any Instructions to Bidders shall apply to all Divisions of the work.
- B. The requirements of State, Local or appropriate codes applicable to the work, whichever is the most stringent is a requirement of all Divisions of the work.

**1.02 SECTION INCLUDES**

- A. Adhered TPO membrane roofing system.
- B. Roof insulation.
- C. Flashing, pipe seals, and roofing accessories.

**1.03 RELATED SECTIONS**

- A. 07 6200 - Sheet Metal Flashing and Trim.

**1.04 DEFINITIONS**

- A. Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

**1.05 PERFORMANCE REQUIREMENTS**

- A. General: Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.
- C. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
- D. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D 3746, ASTM D 4272, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- E. Wind Uplift Resistance: Design roofing system to resist wind uplift pressures when tested according to FM Approvals 4474, UL 580, or UL 1897, for 115 mph ultimate design wind speed, or 90 mph nominal design wind speed.
- F. FM Approvals' RoofNav Listing: Roof membrane, base flashings, and component materials shall comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and shall be listed in FM Approvals' RoofNav for Class 1 or noncombustible construction, as applicable. Identify materials with FM Approvals Certification markings.
  - 1. Fire/Windstorm Classification: **Class 1A-90**
- G. ENERGY STAR Listing: Roofing system shall be listed on the DOE's ENERGY STAR "Roof Products Qualified Product List" for **low**-slope roof products.
- H. Energy Performance: Roofing system shall have an initial solar reflectance of not less than **0.65** and an emissivity of not less than **0.50** when tested according to CRRC-1..
- I. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, **Class A** for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- J. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

**1.06 SUBMITTALS**

- A. Product Data: For each type of product indicated.

- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other Work.
  - 1. Base flashings and membrane terminations.
  - 2. Tapered insulation, including slopes.
- C. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
- D. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
  - 1. Submit evidence of meeting performance requirements.
- E. Qualification Data: For Installer and manufacturer.
- F. Maintenance Data: For roofing system to include in maintenance manuals.
- G. Warranties: Special warranties specified in this Section.
- H. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

**1.07 QUALITY ASSURANCE**

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.
- B. Manufacturer Qualifications: A qualified manufacturer with not less than 10 years of manufacturing history and that has FMG approval for membrane roofing system identical to that used for this Project.
- C. Fire-Test-Response Characteristics: Provide membrane roofing materials with the fire-test-response characteristics indicated as determined by testing identical products per test method below by UL, FMG, or another testing and inspecting agency acceptable to authorities having jurisdiction. Materials shall be identified with appropriate markings of applicable testing and inspecting agency.
- D. Preinstallation Conference: Conduct conference at Project site. Comply with requirements in Division 1 Section "Project Management and Coordination." Review methods and procedures related to roofing system including, but not limited to, the following:
  - 1. Meet with Owner; Architect; Owner's insurer if applicable; testing and inspecting agency representative; roofing Installer; roofing system manufacturer's representative; deck Installer; and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
  - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
  - 3. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
  - 5. Review structural loading limitations of roof deck during and after roofing.
  - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that will affect roofing system.
  - 7. Review governing regulations and requirements for insurance and certificates if applicable.
  - 8. Review temporary protection requirements for roofing system during and after installation.
  - 9. Review roof observation and repair procedures after roofing installation.

**1.08 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

#### **1.09 PROJECT CONDITIONS**

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

#### **1.10 WARRANTY**

- A. Special full-system Warranty: Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.
  1. Special full-system warranty includes roofing membrane, base flashings, roofing accessories, roof insulation, fasteners, cover board, walkway products and other components of membrane roofing system.
  2. Warranty Period: 30 years from date of Substantial Completion.

### **PART 2 PRODUCTS**

#### **2.01 ROOFING MEMBRANE**

- A. Thermoplastic Polyolefin (TPO) membrane, 80 mil thick reinforced, Energy Star Certified. Initial solar reflectance shall be greater than or equal to 0.65. Solar reflectance shall be greater than or equal to 0.50 three years after installation under normal conditions.

#### **2.02 ACCEPTABLE MANUFACTURERS**

- A. Carlisle
- B. Firestone
- C. Johns Manville
- D. Approved alternates.

#### **2.02 AUXILIARY MATERIALS**

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
  1. Liquid-type auxiliary materials shall meet VOC limits of authorities having jurisdiction.
- B. Sheet Flashing: 0.080" TPO Membrane.
- C. Bonding Adhesive: Manufacturer's standard bonding adhesive.
- D. Seaming Material: Single-component butyl splicing adhesive and splice cleaner.
  1. Provide seaming tape 7-inch wide or as required by manufacturer to achieve warranty.
- E. Lap Sealant: Manufacturer's standard single-component sealant.
- F. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.
- G. Metal Termination Bars: Manufacturer's standard predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.
- H. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
- I. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

## 2.03 ROOF INSULATION

- A. General: Provide preformed roof insulation boards that comply with requirements and referenced standards, selected from manufacturer's standard sizes and of thicknesses indicated.
- B. Coverboard: Basis of design: 1/2" glass-faced DensDeck Prime.
- C. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 2 (25 psi).
  - 1. Facer Type: Faced with polymer-bonded glass fiber mat membrane facers on both major surfaces of the core foam.
  - 2. Long-Term Thermal Resistance (LTTR): Not less than 5.6 per inch when tested according to ASTM C1303.
  - 3. Tapered: roof trusses provide one-directional slope at each wing of building at upper level, but crickets required for slope to drains. Tapered insulation required at first story roof and canopies, as no roof truss slope at those locations:
    - a. Slope: Not less than 1/4" per foot as required to prevent ponding water from forming on the roof surface at any point. No slope under 1/4" per foot will be permitted.
    - b. Minimum R-Value at Drainage Point: R-25 unless otherwise indicated on Drawings.

## 2.04 INSULATION ACCESSORIES

- A. Provide adhesives and mechanical fasteners as recommended by insulation manufacturer for substrates encountered.
  - 1. Fasteners: Metal fasteners and the insulation shall be approved by the membrane manufacturer to assure that required conditions are met to provide a membrane manufacturer's roof warranty. The type of fastener shall be appropriate for the substrate to achieve maximum withdraw and anti-corrosion characteristics. The membrane manufacturer approved fasteners shall also meet the following requirements.
    - a. FM 4470 SPRI Corrosion Test Procedure and Guidelines for Roofing Fasteners. To pass, the fasteners shall not accumulate more than 15 percent red rust after the "required number cycles" in the Kesternich cabinet.
      - 1) The required number of cycles is as currently recommended by FM and SPRI, but in no case shall it be less than 15.
      - 2) Fasteners shall be buttress thread (threads 10 degree/45 degree angle) for static backout resistance.
  - 2. Cold Fluid Applied Adhesive: Manufacturer's standard cold fluid applied adhesive formulated to adhere roof insulation to substrate.
- B. Cricket (Tapered Insulation): Provide tapered insulation crickets sloped approximately 1/4" per foot. Locate and arrange as indicated on drawings or as required to divert water at rooftop equipment or vertical obstructions without ponding at any time.
  - 1. Material: Polyisocyanurate: Conform to requirements and manufacturers specified herein.

## 2.05 WALKWAYS

- K. Flexible Walkways: Factory-formed, nonporous, heavy-duty, solid white rubber, slip-resisting, surface-textured walkway rolls, approximately 3/16 inch thick and 24" wide, and acceptable to membrane roofing system manufacturer.
  - 1. Provide 2' x 4' walkway at base of all roof ladders.
  - 2. Provide 2' x 2' walkway at all roof hatch locations.
  - 3. Provide 2' width around all mechanical units.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with the following requirements and other conditions affecting performance of roofing system:
  - 1. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
  - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

3. Verify that minimum concrete drying period recommended by roofing system manufacturer has passed.
4. Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
5. Verify that concrete curing compounds that will impair adhesion of roofing components to roof deck have been removed.
6. Proceed with installation only after unsatisfactory conditions have been corrected.

**3.02 PREPARATION**

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

**3.03 INSULATION INSTALLATION**

- A. Coordinate installing membrane roofing system components so insulation is not exposed to precipitation or left exposed at the end of the workday.
- B. Comply with membrane roofing system manufacturer's written instructions for installing roof insulation.
- C. Install tapered insulation under area of roofing to conform to slopes indicated.
- D. Install one or more layers of insulation under area of roofing to achieve required thickness. Where overall insulation thickness is 2 inches or greater, install 2 or more layers with joints of each succeeding layer staggered from joints of previous layer a minimum of 6 inches in each direction.
- E. Trim surface of insulation where necessary at roof drains so completed surface is flush and does not restrict flow of water.
- F. Install insulation with long joints of insulation in a continuous straight line with end joints staggered between rows, abutting edges and ends between boards. Fill gaps exceeding 1/4 inch with insulation.
  1. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
- G. Adhered Insulation: Install each layer of insulation and adhere to substrate as follows:
  1. Set each layer of insulation in a cold fluid-applied adhesive.

**3.04 ADHERED ROOFING MEMBRANE INSTALLATION**

- A. Install roofing membrane over area to receive roofing according to membrane roofing system manufacturer's written instructions. Unroll roofing membrane and allow to relax before installing.
- B. Start installation of roofing membrane in presence of membrane roofing system manufacturer's technical personnel.
- C. Accurately align roofing membrane and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Bonding Adhesive: Apply bonding adhesive to substrate and underside of roofing membrane at rate required by manufacturer and allow to partially dry before installing roofing membrane. Do not apply bonding adhesive to splice area of roofing membrane.
- E. Install roofing membrane securely at terminations, penetrations, and perimeter of roofing.
- F. Apply roofing membrane with side laps shingled with slope of roof deck where possible.
- G. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement, and firmly roll side and end laps of overlapping roofing membranes according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing membrane terminations.

1. Apply a continuous bead of in-seam sealant before closing splice if required by membrane roofing system manufacturer.
- H. Repair tears, voids, and lapped seams in roofing that does not meet requirements.
- I. Spread sealant or mastic bed over deck drain flange at deck drains and securely seal roofing membrane in place with clamping ring.
- J. Install roofing membrane and auxiliary materials to tie in to existing roofing, if so indicated.

**3.05 BASE FLASHING INSTALLATION**

- A. Install sheet flashings and preformed flashing accessories and adhere to substrates according to membrane roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate and allow to partially dry. Do not apply bonding adhesive to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

**3.06 WALKWAY INSTALLATION**

- A. Flexible Walkways: Adhere walkway products to substrate with compatible adhesive according to roofing system manufacturer's written instructions.

**3.07 FIELD QUALITY CONTROL**

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion and submit report to Architect.
  1. Notify Architect or Owner 48 hours in advance of date and time of inspection.
- B. Repair or remove and replace components of membrane roofing system where test results or inspections indicate that they do not comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.

**3.08 PROTECTING AND CLEANING**

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

**END OF SECTION 07 5423**



**SECTION 08 5313  
VINYL WINDOWS**

**PART 1 - GENERAL**

**1.1 SECTION INCLUDES**

- A. Vinyl-framed, factory-glazed windows, operable single-hung type.
- B. Operating hardware.
- C. Insect screens.

**1.2 RELATED REQUIREMENTS**

- A. Section 08 0500 – Common Work Results for Openings
- B. Section 07 2500 - Weather Barriers
- C. Section 07 6200 - Sheet Metal Flashing and Trim

**1.3 REFERENCE STANDARDS**

- A. AAMA/NWWDA 101/I.S. 2-97 - Voluntary Standard for Aluminum and Poly (Vinyl Chloride) (PVC) Prime Windows and Glass Doors.
- B. National Fenestration Rating Council:
  - 1. NFRC 100 - Procedure for Determining Fenestration Product U-Factors
  - 2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence
- C. ASTM International:
  - 1. ASTM D 3656 - Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Fiber Yarn.
  - 2. ASTM D 3678 - Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Interior Profile Extrusions.
  - 3. ASTM D 4028 - Standard Specification for Solar Screening Woven from Vinyl-Coated Fiber Glass Yarn.
  - 4. ASTM E 774 - Standard Specification for Sealed Insulating Glass.
- D. Insulated Glass Certification Council (IGCC): Classification of Insulating Glass Units.
- E. U.S. Department of Energy: ENERGY STAR® Program Requirements for Residential Windows, Doors, and Skylights

**1.4 ADMINISTRATIVE REQUIREMENTS**

- A. Preinstallation Meeting: Convene one week before starting work of this section.

**1.5 SUBMITTALS FOR REVIEW**

- A. Shop drawings showing details of fabrication, hardware, weatherstripping, fasteners, screens, glazing, accessories, and related items.
- B. Window schedule identifying each opening and size corresponding with the elevations on the Drawings.
- C. Manufacturer's full range of available color samples.

**1.6 SUBMITTALS FOR INFORMATION**

- A. Test Reports: For each window type specified, furnish test reports from accredited independent testing laboratory certifying that identical or larger window units meet requirements specified for air infiltration, water penetration and structural performance by AAMA/NWWDA 101/I.S. 2-97, for thermal performance by NFRC-97, and for seal integrity of insulating glass units by IGCC.

**1.7 CLOSEOUT SUBMITTALS**

- A. Warranty documents, properly executed.
- B. Maintenance Instructions

**1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Protect finished surfaces with wrapping. Do not use adhesive papers or sprayed coatings that bond when exposed to sunlight or weather.
- B. Jig, brace, and box the window frame assemblies for transport to minimize flexing of members or joints.

**1.9 WARRANTY**

- A. Correct defective Work within a **TEN** year period after Date of Substantial Completion.
- B. Provide **TEN** year manufacturer warranty for insulated glass units from seal failure, interpane dusting or misting, and replacement of same. Include coverage for degradation of color finish.

**PART 2 - PRODUCTS**

**2.1 VINYL WINDOWS**

- A. Basis of Design: Pella Encompass Single hung insulated windows, with LoE3 glass with Argon gas fill, Energy Star qualified for ASHRAE Climate Zone 5.
- B. Description: Factory fabricated frame and sash members of extruded hollow ultra-violet-resistant polyvinyl chloride (PVC) with integral color; with factory-installed glazing, hardware, related flashings, and anchorage and attachment devices. The Architect will select the color.
  - 1. Framing Members: Fusion welded corners and joints, with internal reinforcement where required for structural rigidity; concealed fasteners.
  - 2. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, or migrating moisture occurring within system.
  - 3. Provide each unit with manufacturer's standard half-height charcoal fiberglass insect screening.
- C. Window Unit Thermal Performance:
  - 1. U-Value:0.30
  - 2. Solar Heat Gain Coefficient:0.35
- D. Operable Sash Weatherstripping: Wool pile; permanently resilient, profiled to effect weather seal.
- E. Color: white.

**2.2 HARDWARE**

- A. Single hung Sash: Metal and nylon spiral friction slide cylinder, each sash, each jamb.
- B. Sash lock: Lever handle with cam lock.
- C. Pulls: To be selected by the Architect.
- D. Window limiters are to be provided on all windows.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Verify wall openings and adjoining weather barrier materials are ready to receive work of this Section. Refer to Section 07 2500.
- B. Verify that head flashings are properly installed. Refer to Section 07 9200.

**3.2 INSTALLATION**

- A. Install window units in accordance with manufacturer's instructions.
- B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
- C. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.
- D. Provide thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- E. Coordinate attachment and seal of perimeter air and vapor barrier materials.
- F. Install operating hardware.

G. Install perimeter sealant and backing materials in accordance with Section 07 9200.

**3.3 TOLERANCES**

A. Maximum Variation from Level or Plumb: 0.06 inches every 3 ft (1.5 mm/m) non-cumulative or 0.5 inches per 100 ft (12 mm/30 m), whichever is less.

**3.4 ADJUSTING**

A. Adjust hardware for smooth operation and secure weathertight closure.

**3.5 CLEANING**

A. Remove protective material from pre-finished surfaces.

B. Wash surfaces by method recommended and acceptable to sealant and window manufacturer; rinse and wipe surfaces clean.

C. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.

**END OF SECTION 08 5313**