S & Z BUILDING

105 EAST MAIN STREET - VERGAS, MINNESOTA 56587

GENERAL NOTES

1) COPYRIGHT:
ALL PLANS, DESIGNS, AND CONCEPTS SHOWN IN THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF BHH PARTNERS PLANNERS/ARCHITECTS AND SHALL NOT BE USED, DISCLOSED, OR REPRODUCED FOR ANY PURPOSE WHATSOEVER WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

2) CODES:
THIS PROJECT IS GOVERNED BY THE CURRENT BUILDING CODE AS ADOPTED BY THE LOCAL JURISDICTIONS. CODE COMPLIANCE IS MANDATORY. THE DRAWINGS AND SPECIFICATIONS SHALL NOT PERMIT WORK THAT DOES NOT CONFORM TO THESE CODES. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR SATISFYING ALL APPLICABLE CODES AND OBTAINING ALL PERMITS AND REQUIRED APPROVALS. BUILDING AREAS ARE SHOWN FOR CODE PURPOSES ONLY AND SHALL BE RECALCULATED FOR ANY OTHER PURPOSES. REFER TO THE CODE STUDY INFORMATION FOR ADDITIONAL INFO.

3) FIELD VERIFICATION:
VERIFY ALL DIMENSIONS, CONDITIONS, AND UTILITY LOCATIONS ON THE JOB SITE PRIOR TO BEGINNING ANY WORK OR ORDERING ANY MATERIALS. NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES IN THE DRAWINGS IMMEDIATELY.

4) DIMENSIONS:
WRITTEN DIMENSIONS ALWAYS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS SHOWN PRIOR TO BEGINNING ANY WORK AND NOTIFY ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES FOR INTERPRETATION OR CLARIFICATION. PLAN DIMENSIONS ARE TO THE FACE OF FRAMING MEMBERS, FACE OF WOOD FURRING OR FACE OF CONCRETE WALLS UNLESS OTHERWISE NOTED. SECTION OR ELEVATION DIMENSIONS ARE TO TOP OF CONCRETE, TOP OF PLYWOOD, OR TOP OF WALL PLATES OR BEAMS UNLESS OTHERWISE NOTED.

5) DISCREPANCIES:
IN THE EVENT ADDITIONAL DETAILS OR GUIDANCE IS NEEDED BY THE CONTRACTOR FOR CONSTRUCTION OF ANY ASPECT OF THIS PROJECT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. FAILURE TO GIVE SIMPLE NOTICE SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY. DO NOT PROCEED IN AREAS OF DISCREPANCY UNTIL ALL SUCH DISCREPANCIES HAVE BEEN FULLY RESOLVED WITH WRITTEN DIRECTION FROM THE ARCHITECT.

6) DUTY OF COOPERATION:
RELEASE OF THESE PLANS CONTEMPLATES FURTHER COOPERATION AMONG THE OWNER, THEIR CONTRACTOR, AND THE ARCHITECT. DESIGN AND CONSTRUCTION ARE COMPLEX. ALTHOUGH THE ARCHITECT AND THEIR CONSULTANTS HAVE PERFORMED THEIR SERVICES WITH DUE CARE AND DILIGENCE, THEY CANNOT GUARANTEE PERFECTION. COMMUNICATION IS IMPERFECT, AND EVERY CONTINGENCY CANNOT BE ANTICIPATED. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT. A FAILURE TO COOPERATE BY A SIMPLE NOTICE TO THE ARCHITECT SHALL RELIEVE THE ARCHITECT FROM RESPONSIBILITY FOR ALL CONSEQUENCES.

7) CHANGES TO THE WORK:
ANY ITEMS DESCRIBED HEREIN THAT IMPACT PROJECT BUDGET OR TIME SHALL BE REQUESTED FROM THE GENERAL CONTRACTOR VIA A WRITTEN CHANGE ORDER REQUEST PRIOR TO SUCH WORK. PERFORMANCE OF SUCH WORK WITHOUT APPROVAL BY CHANGE ORDER INDICATES CONTRACTOR'S ACKNOWLEDGMENT OF NO INCREASE IN CONTRACT SUM OR TIME. CHANGES FROM THE PLANS OR SPECIFICATIONS MADE WITHOUT CONSENT OF THE ARCHITECT ARE UNAUTHORIZED AND SHALL RELIEVE THE ARCHITECT OF RESPONSIBILITY FOR ANY AND ALL CONSEQUENCES RESULTING FROM SUCH CHANGES.

8) WORKMANSHIP:
IT IS THE INTENT AND MEANING OF THESE DRAWINGS THAT THE CONTRACTOR AND EACH SUBCONTRACTOR PROVIDE ALL LABOR, MATERIALS, TRANSPORTATION, SUPPLIES, EQUIPMENT, ETC., TO OBTAIN A COMPLETE JOB WITHIN THE RECOGNIZED STANDARDS OF THE INDUSTRY.

9) SUBSTITUTIONS:
SUBSTITUTIONS OF "EQUAL" PRODUCTS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.

10) CONSTRUCTION SAFETY:
THESE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR SHALL PROVIDE FOR THE SAFETY, CARE OF UTILITIES AND ADJACENT PROPERTIES DURING CONSTRUCTION, AND SHALL COMPLY WITH STATE AND FEDERAL SAFETY REGULATIONS.

11) FIELD CUTTING OF STRUCTURAL MEMBERS:
THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD COORDINATE AND OBTAIN APPROVAL FROM ARCHITECT/ENGINEER BEFORE ANY CUTTING, NOTCHING OR DRILLING OF ANY CAST-IN-PLACE CONCRETE, STEEL FRAMING, OR ANY OTHER STRUCTURAL ELEMENTS WHICH MAY AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING. REFER TO INTERNATIONAL BUILDING CODE, MANUFACTURER'S OR SUPPLIER'S INSTRUCTIONS, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

12) MECHANICAL NOTE:
MECHANICAL SUBCONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION, & APPROVAL OF MECHANICAL SYSTEMS TO MEET CODE AND AUTHORITIES HAVING JURISDICTION. PROVIDE OWNER WITH DRAWINGS SHOWING ZONING OF IN FLOOR HEATING SYSTEM (IF APPLICABLE) & FORCED AIR DUCT SYSTEM. PROVIDE RED LINED SET OF DRAWINGS TO OWNER AT END OF PROJECT. ALL PENETRATIONS THROUGH BUILDING ENVELOPE TO BE SEALED TIGHT.

13) ELECTRICAL NOTE:
ELECTRICAL SUBCONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION, & APPROVAL OF ELECTRICAL, LIGHTING, AND LIFE SAFETY SYSTEMS AS REQUIRED TO MEET CODE AND AUTHORITIES HAVING JURISDICTION. ELECTRICAL SUBCONTRACTOR TO PROVIDE & INSTALL ALL SMOKE/FIRE ALARMS/CARBON MONOXIDE DETECTION AND LIGHTING THROUGHOUT AS REQUIRED TO COMPLY WITH ALL CURRENT ELECTRICAL CODES. PROVIDE RED LINED SET OF DRAWINGS TO OWNER AT END OF PROJECT. ALL PENETRATIONS THROUGH BUILDING ENVELOPE TO BE SEALED TIGHT.

14) PLUMBING NOTE:
PLUMBING SUBCONTRACTOR IS RESPONSIBLE FOR DESIGN, INSTALLATION AND APPROVAL OF PLUMBING SYSTEM TO MEET CODE AND AUTHORITIES HAVING JURISDICTION. PLUMBING CONTRACTOR RESPONSIBLE FOR SUBMITTAL AND PAYMENT OF PLUMBING PLAN REVIEW. MECHANICAL SUBCONTRACTOR TO PROVIDE VENTILATION (AIR EXCHANGES) AND EXHAUST FANS AT ALL ROOMS AS REQUIRED BY CODE. PROVIDE PASSIVE RADON MITIGATION SYSTEM THAT CAN BE ACCESSED IF RADON IS DETECTED SO THAT EXHAUST FAN MAY BE INSTALLED AT A LATER DATE. PROVIDE RED LINED SET OF DRAWINGS SHOWING SUPPLY & DRAIN LINES TO OWNER AT END OF PROJECT. ALL PENETRATIONS THROUGH BUILDING ENVELOPE TO BE SEALED TIGHT.

15) SOILS NOTE:
SOILS INFORMATION IS AVAILABLE FOR THE PROJECT AND WAS OBTAINED FROM TEST PIT OBSERVATION REPORT PREPARED BY INDEPENDENT TESTING TECHNOLOGIES, PROJECT #21-409, DATED SEPTEMBER 20, 2021.

16) SITE INFORMATION:
SITE INFORMATION WAS OBTAINED FROM "CERTIFICATE OF SURVEY" PREPARED BY MEADOWLAND SURVEYING, INC. DATED AUGUST 5TH, 2021, DRAWING NUMBER T9975-15.

SHEET INDEX

OWNER

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VERGAS, MN 56587

ARCHITECT

BHH PARTNERS PLANNERS/ARCHITECTS
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PERHAM, MINNESOTA 56573
218-346-4505

STRUCTURAL ENGINEER

SCHIK ENGINEERING, LLC
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P.O. BOX 158
NEW YORK MILLS, MINNESOTA 56567
218-385-2044
FAX: 218-385-2048

MECHANICAL CONTRACTOR

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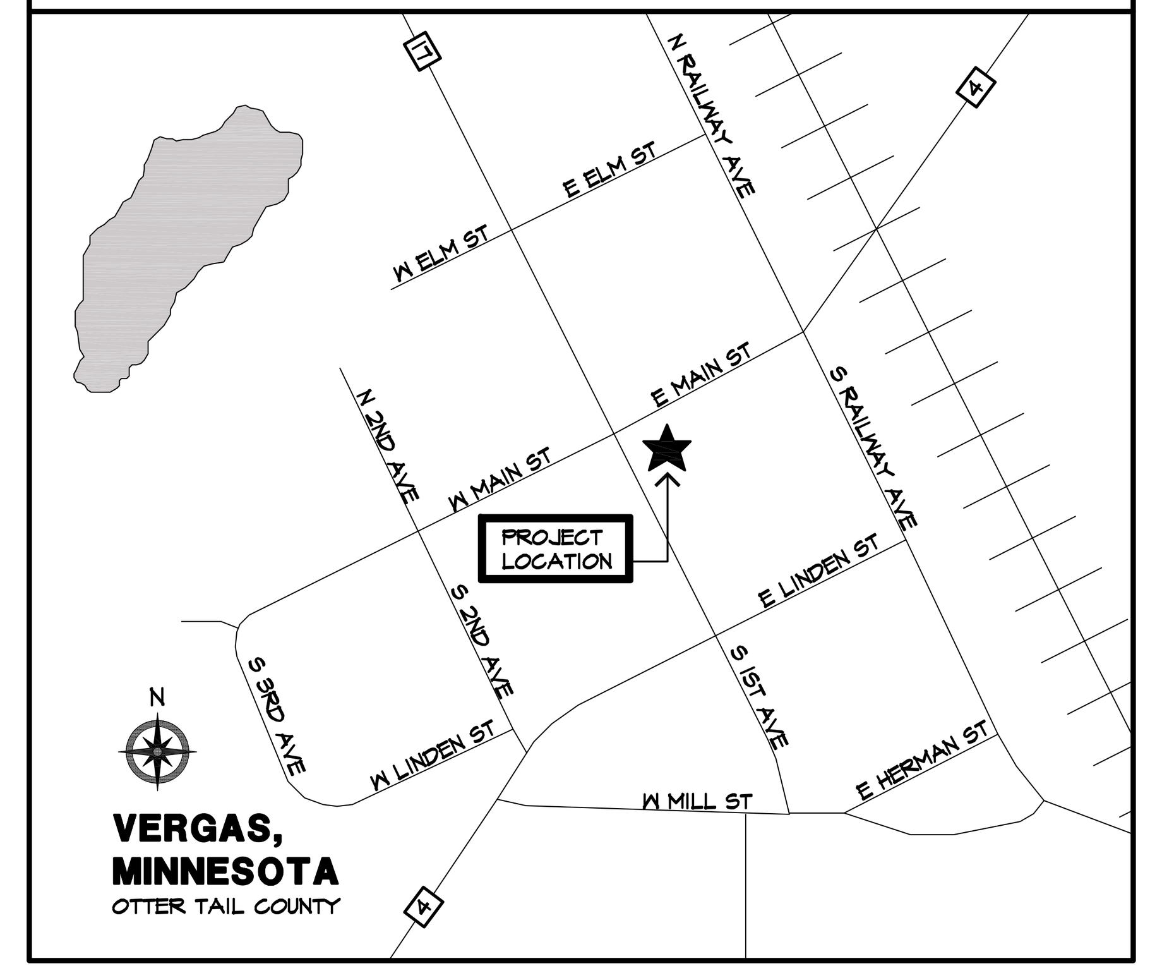
PERHAM, MINNESOTA 56573
218-346-2422

ELECTRICAL CONTRACTOR

ZITZOW ELECTRIC INC.
49605 COUNTY HWY 17
VERGAS, MINNESOTA 56587
218-841-8643

VICINITY MAP



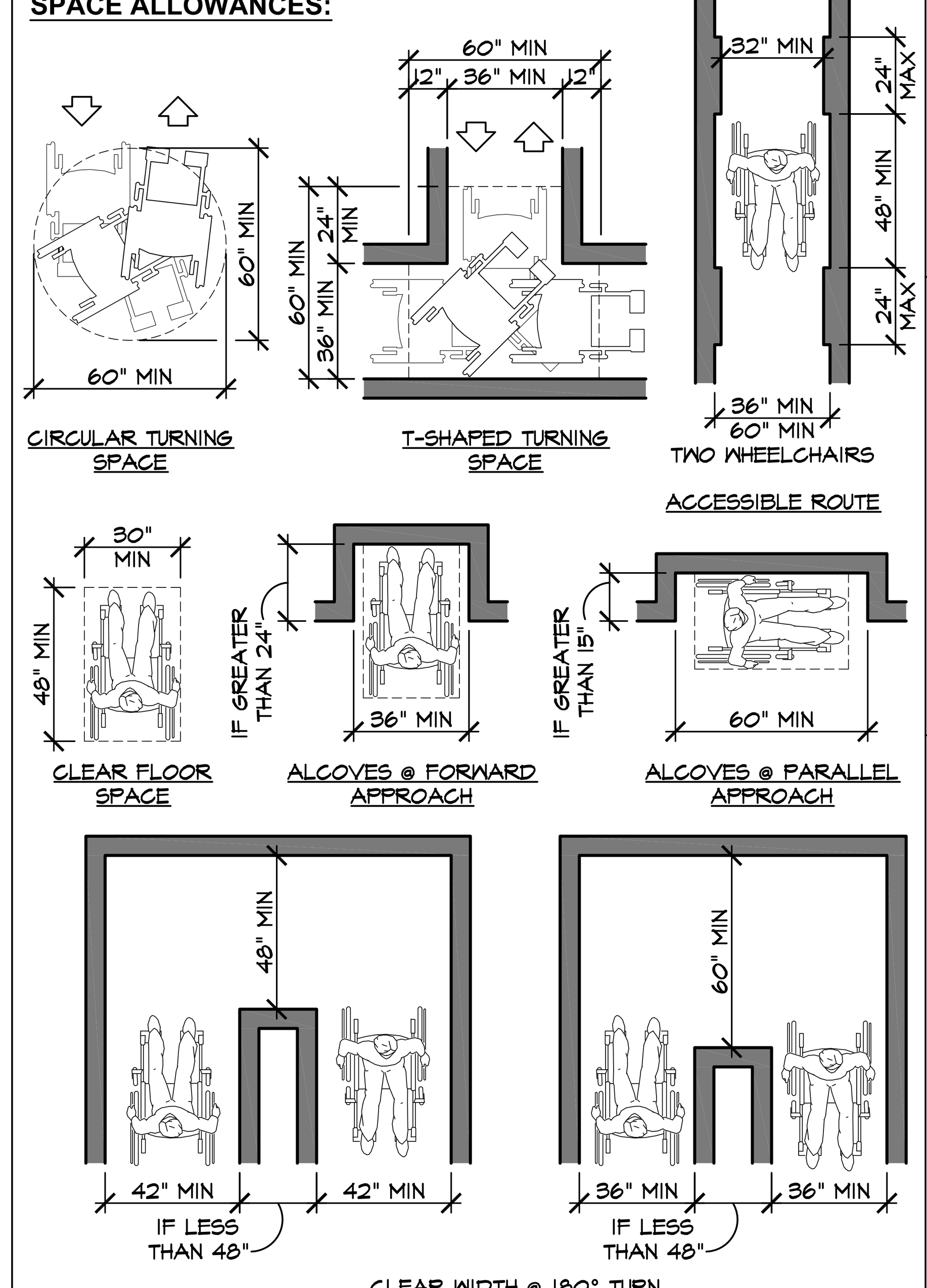
ACCESSIBILITY & BARRIER FREE STANDARDS

GENERAL ACCESSIBILITY NOTES:

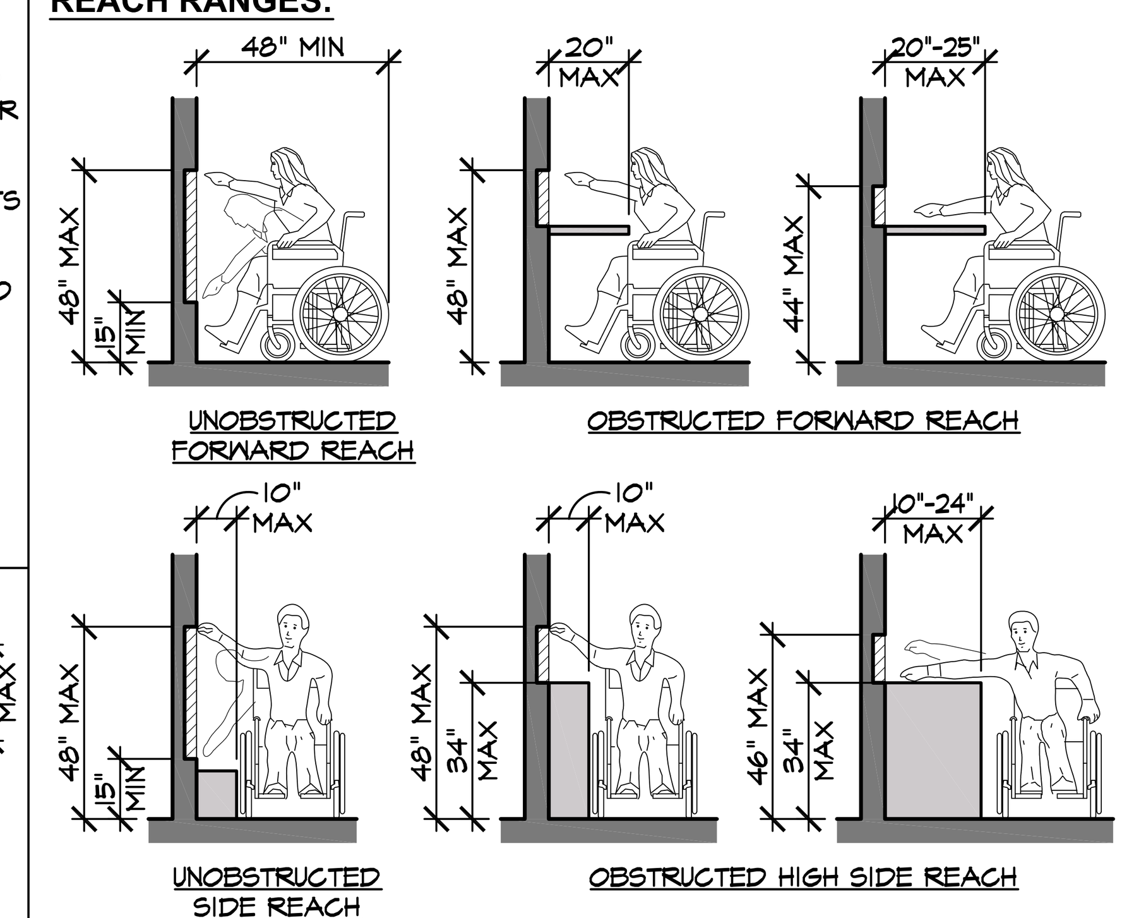
ADA GENERAL NOTE DISCLAIMER:
BHH PARTNERS INDICATES THAT, IN ITS PROFESSIONAL OPINION, THE ATTACHED DESIGN CONFORMS TO THE REGULATIONS PUBLISHED SEPTEMBER 15, 2010 UNDER TITLE III OF THE AMERICANS WITH DISABILITIES ACT. IT DOES NOT REPRESENT, WARRANT, GUARANTEE OR OTHERWISE INDICATE TO THE CLIENT THAT THESE DOCUMENTS WILL FULLY COMPLY WITH INTERPRETATIONS OF ADA REQUIREMENTS BY REGULATORY BODIES OR COURT DECISIONS. THE ADA IS NOT A BUILDING CODE, AND THEREFORE WILL BE ENFORCED NOT IN STRICT COMPLIANCE WITH IMPLEMENTATION REGULATIONS, BUT IN KEEPING WITH THE INTENT OF THE ACT TO ELIMINATE DISCRIMINATION BASED ON DISABILITIES AS DEFINED IN THE ACT.

ALL DETAILS, DIMENSIONS, NOTES, DIAGRAMS, ETC. ARE PROVIDED AS A CONVENIENCE TO THE GENERAL CONTRACTOR. ALL CLEARANCES SHOULD BE VERIFIED AGAINST THE REQUIREMENTS OF CABO/ANSI A117.1 WHICH TAKES PRECEDENCE OVER ANYTHING SHOWN, DRAWN OR IMPLIED IN THESE DRAWINGS. ANY AND ALL DISCREPANCIES SHOULD BE REPORTED TO BHH PARTNERS IMMEDIATELY.

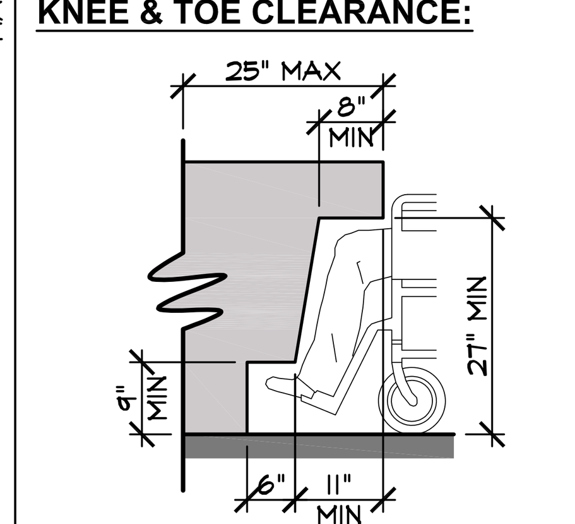
SPACE ALLOWANCES:



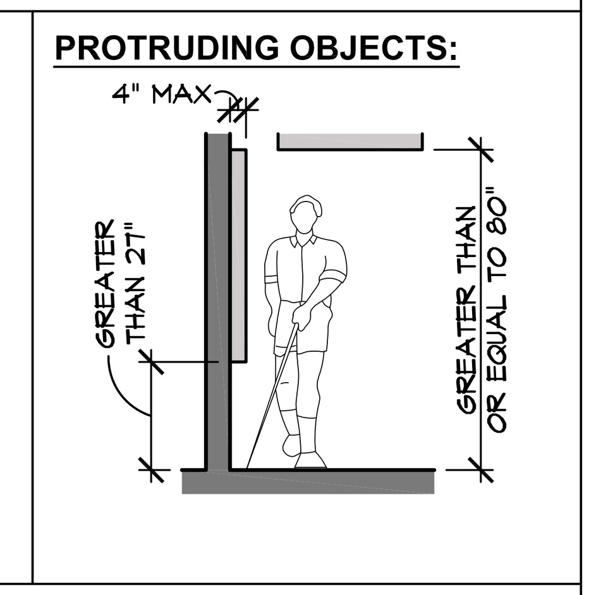
REACH RANGES:



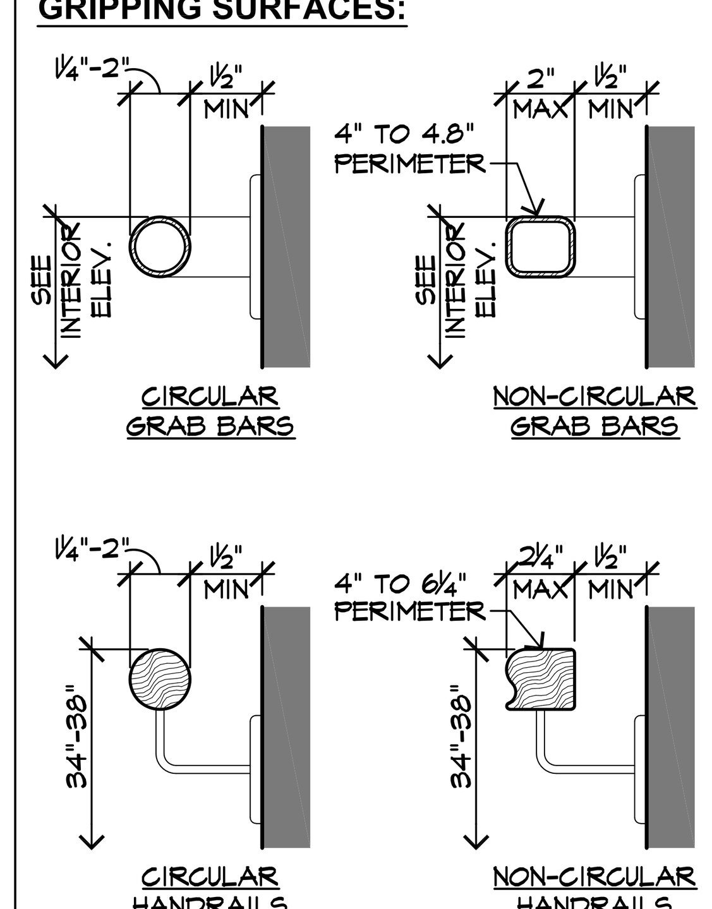
KNEE & TOE CLEARANCE:



PROTRUDING OBJECTS:

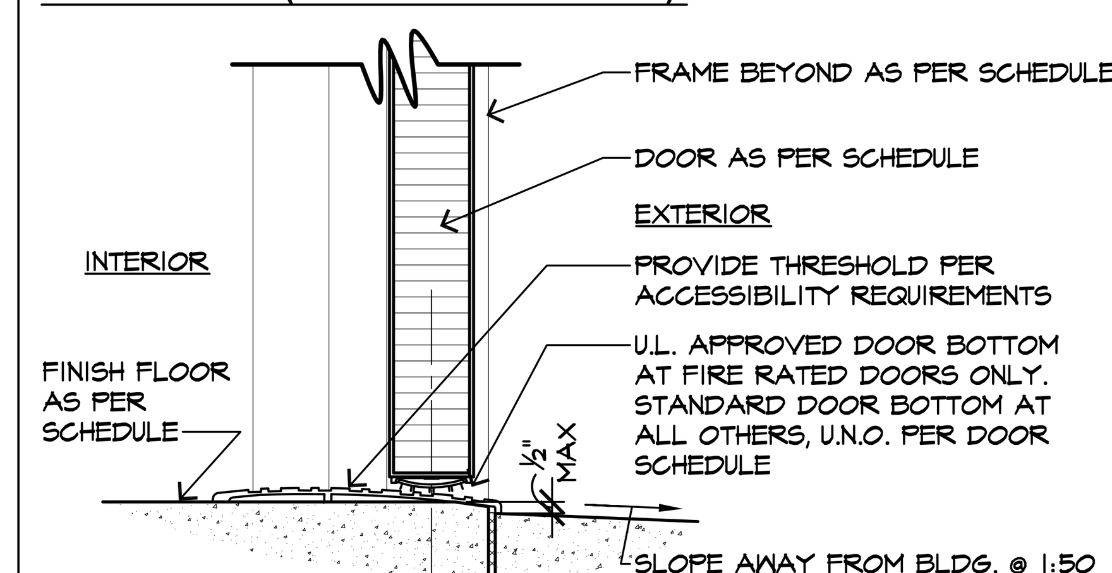


GRIPPING SURFACES:



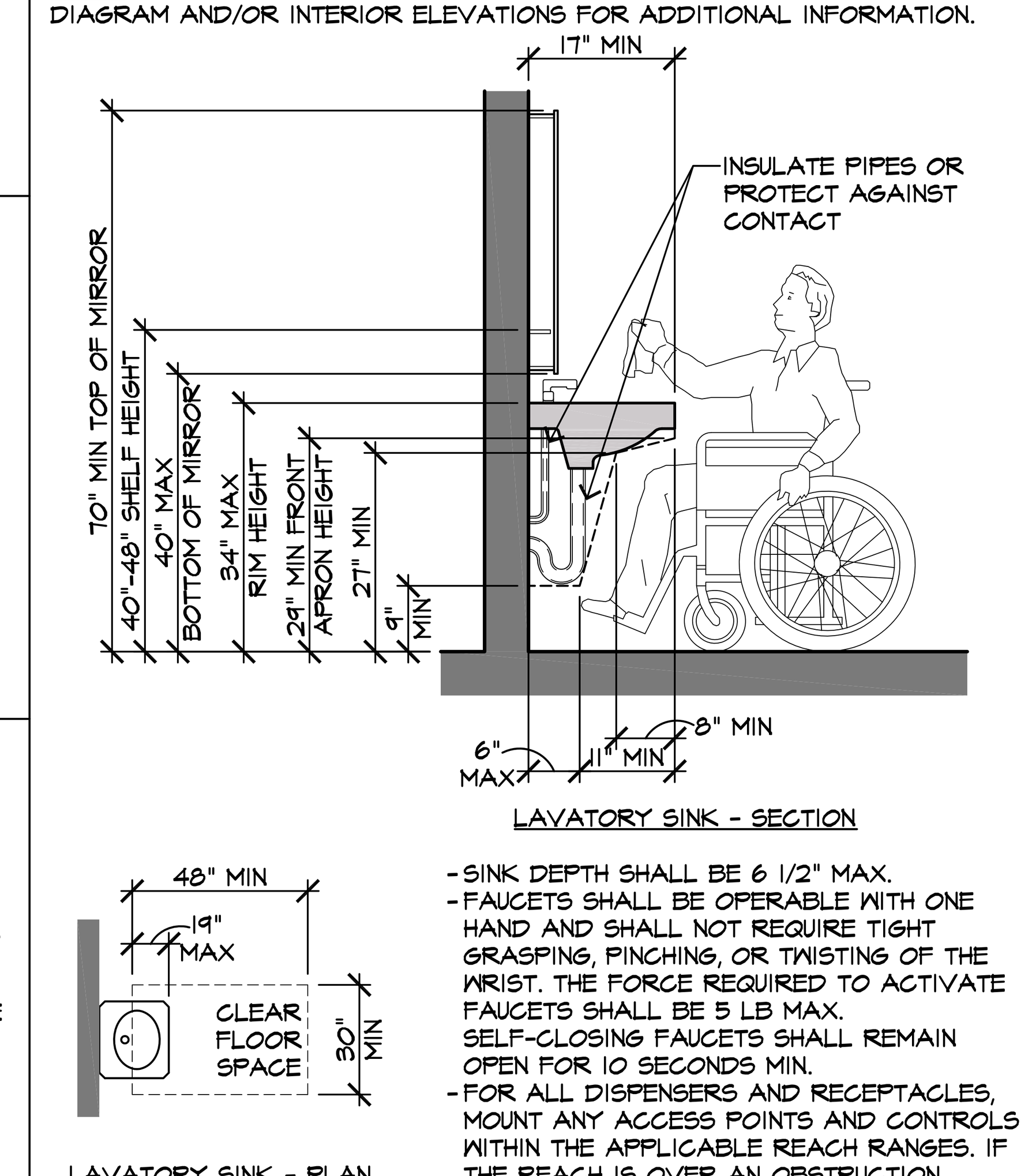
- GRAB BARS, HANDRAILS, AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
- GRAB BARS AND HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
- GRAB BARS WILL HAVE A STRUCTURAL STRENGTH WITH ALLOWABLE STRESSES IN BENDING, SHEAR, AND TENSION NOT TO BE EXCEEDED WITH A VERTICAL OR HORIZONTAL FORCE OF 250 LB APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR THE SUPPORTING STRUCTURE.

THRESHOLDS (SEE DOOR SCHEDULE):



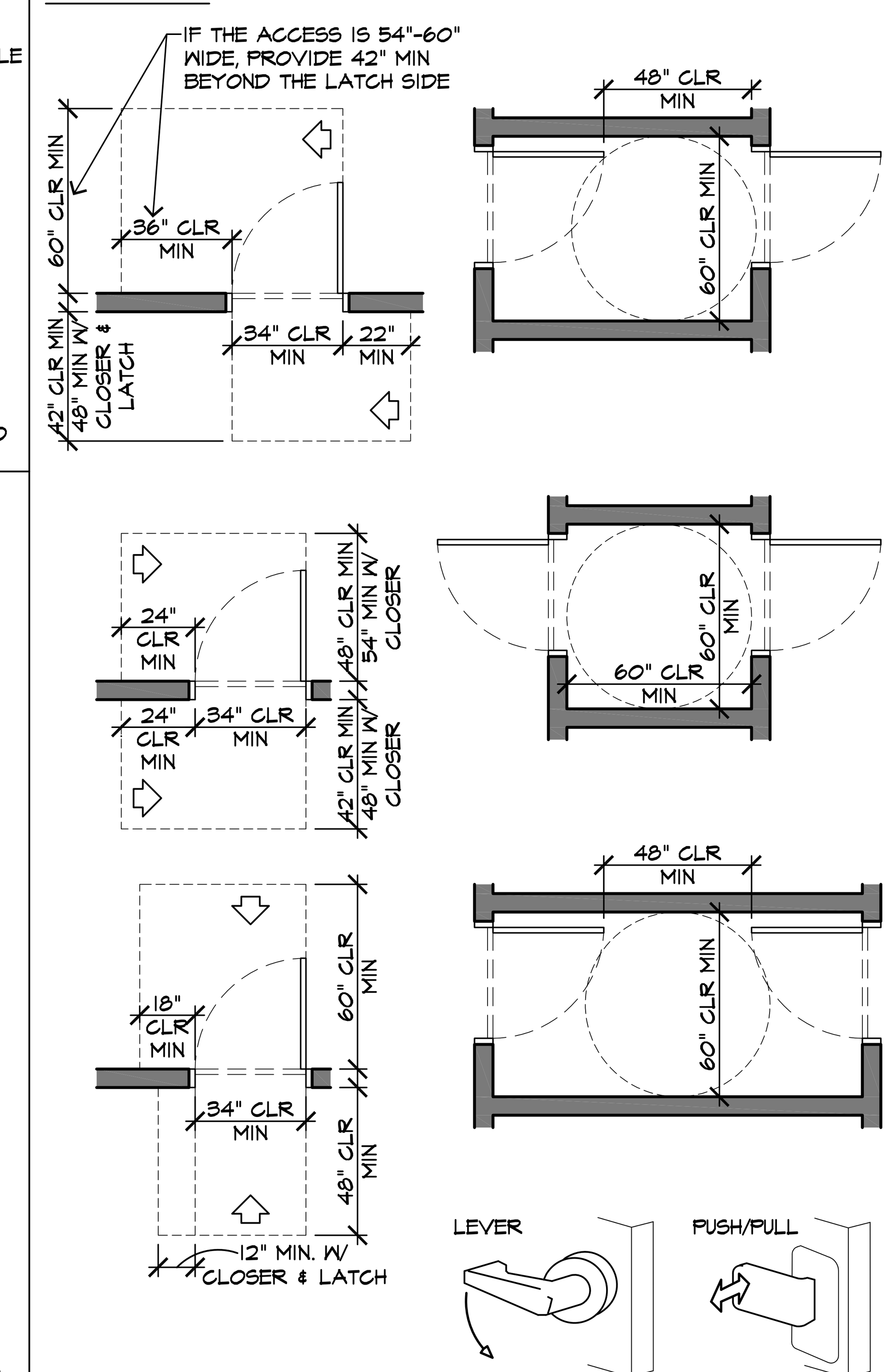
LAVATORY SINKS:

NOTE: REFER TO FIXTURE/ACCESSORY REQUIREMENTS & MOUNTING HEIGHTS DIAGRAM AND/OR INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.



- SINK DEPTH SHALL BE 6 1/2" MAX.
- FAUCETS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE FAUCETS SHALL BE 5 LB MAX. SELF-CLOSING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MIN.
- FOR ALL DISPENSERS AND RECEPTACLES, MOUNT ANY ACCESS POINTS AND CONTROLS WITHIN THE APPLICABLE REACH RANGES. IF THE REACH IS OVER AN OBSTRUCTION, MOUNT ALL ACCESS POINTS AND CONTROLS AT 44" AFF MAX.

DOORWAYS:



- SLIDING AND FOLDING DOORS REQUIRE THE SAME MANEUVERING SPACE AS APPROACHES TO THE PUSH SIDE ON SWINGING DOORS.
- HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. WHEN SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90°, THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12° WILL BE 5 SECONDS MIN.
- FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY APPLICABLE CODES. THE REQUIRED FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE 5.0 LB MAX. THIS FORCE DOES NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR IN A CLOSED POSITION.

FILE NAME: 2143_A0.0.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: CCD
CHECKED BY: AJS
REVISIONS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
ANTHONY J. STOLL
DATE: 10-01-21 REGISTRATION NO. 22296

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S & Z BUILDING
VERGAS, MINNESOTA

SHEET NUMBER:
A-0.0

CODE DATA

1. BUILDING AREA
SQUARE FOOTAGE IS SHOWN FOR CODE PURPOSE ONLY AND SHALL BE RECALCULATED FOR OTHER USES. THIS PROJECT IS GOVERNED UNDER THE 2020 MINNESOTA STATE BUILDING CODE. OTHER APPLICABLE CODES INCLUDE: INTERNATIONAL BUILDING CODE 2020, MINNESOTA AMENDMENTS TO THE 2012 IBC (2015), 2017 NED, MINNESOTA ENERGY CODE, NFPA 101-LIFE SAFETY CODE, 2015 MINNESOTA FUEL AND GAS CODE, 2015 MINNESOTA PLUMBING CODE, NATIONAL ELECTRIC CODE, MINNESOTA FIRE CODE, ASTM STANDARDS IN BUILDING CODES 14TH EDITION, AMERICAN NATIONAL STANDARDS FOR SAFETY; LISTED AS SUCH IN THE CURRENT CATALOGUE OF ANSI STANDARDS.

THE FOLLOWING FIGURES ARE BASED ON AREAS MEASURED TO EXTERIOR FACE OF EXTERIOR WALL: (EXCLUDING VENEER)

MAIN LEVEL:	
TENANT #1	3,020 S.F.
TENANT $2	616 S.F.
TENANT #3	714 S.F.
TENANT #4	529 S.F.
TENANT #5	1,773 S.F.
UNIT #1	825 S.F.
TOTAL	7,925 S.F.

*MISC OR COMMON SPACE MAKES UP THE REMAINDER OF S.F.

UPPER LEVEL:	
TOTAL	7,078 S.F.

2. OCCUPANCY GROUP (CHAPTER 3)

OCCUPANCY GROUP M - MERCANTILE (TENANT #1 - GROCERY)
OCCUPANCY GROUP B - BUSINESS (TENANT #2 - #4 - TBD)
OCCUPANCY GROUP A3 - ASSEMBLY (TENANT #5)
OCCUPANCY GROUP R2 - RESIDENTIAL (UNIT #1 - #8)

2.1 NON-SEPARATED OCCUPANCIES (508.3)
- MOST RESTRICTIVE OF CHAPTER 9.
- MOST RESTRICTIVE OF CHAPTER 5 FOR HEIGHT, AREA, STORIES.
- R OCCUPANCY SEPARATED PER SECTION 420. FIRE PARTITIONS PER SECTION 708. HORIZONTAL SEPARATION PER SECTION 711.

3. TYPE OF CONSTRUCTION (TABLE 601)
- TYPE V-B

4. ALLOWABLE HEIGHT (TABLE 504.3)
- A-3 OCCUPANCY = 60'-0" (S) - OK - 34'-0" AT TALLEST POINT.
- M OCCUPANCY = 60'-0"
- B OCCUPANCY = 60'-0"
- R2 OCCUPANCY = 60'-0"

60' MOST RESTRICTIVE HEIGHT

5. ALLOWABLE STORIES (TABLE 504.4)
- A-3 OCCUPANCY = 2 (S) - OK (2 PROVIDED)
- M OCCUPANCY = 2
- B OCCUPANCY = 3
- R2 OCCUPANCY = 3

(2) STORIES MOST RESTRICTIVE STORIES

6. ALLOWABLE AREAS (TABLE 506.2)
GROUP A-3:
TYPE V-B (SPRINKLED-SM)
ALLOWABLE: 18,000 S.F.
GROUP M:
TYPE V-B (SPRINKLED-SM)
ALLOWABLE: 27,000 S.F.
GROUP B:
TYPE V-B (SPRINKLED-SM)
ALLOWABLE: 27,000 S.F
GROUP R2:
TYPE V-B (SPRINKLED-SM)
ALLOWABLE: 27,000 S.F

18,000 (A3) MOST RESTRICTIVE AREA

MAIN LEVEL = 7,925 S.F. = OK
UPPER LEVEL = 7,078 S.F. = OK

7. SEPARATIONS (TABLE 508.4)
R2 TO NON-SEPARATED MIXED OCCUPANCY - 1 HOUR
- RATING SHALL BE BOTH HORIZONTAL AND VERTICAL.

REQUIRED SEPARATIONS SHALL BE FIRE BARRIERS PER SECTION 707, OR HORIZONTAL ASSEMBLIES PER SECTION 711.

R TO M = 1 HOUR (S)
R TO A = 1 HOUR (S)

8. FIRE BARRIER (SECTION 707)
- WHERE USED FOR OCCUPANCY SEPARATION, THE RATING OF THE FIRE BARRIER SHALL BE THAT OF SECTION 508.4 (IDENTIFIED ABOVE)
- FIRE BARRIERS SHALL EXTEND FROM TOP OF FOUNDATION OR FLOOR/ CEILING ASSEMBLY TO UNDERSIDE OF THE FLOOR OR ROOF SHEATHING, CONTINUOUS THROUGH CONCEALED SPACE

9. FLOOR AND ROOF ASSEMBLIES (SECTION 711)
- DWELLING AND SLEEPING UNITS SHALL BE SEPARATED BY NOT LESS THAN ½ HOUR IN TYPE V-B CONSTRUCTION IF A FIRE SPRINKLER SYSTEM IS PROVIDED PER 903.3.1.1.

10. BUILDING ELEMENTS
- IBC TABLE 601

	FIRE-RESISTANCE RATING V-B
A. STRUCTURAL FRAME	0
B. BEARING WALLS - EXTERIOR	0
C. BEARING WALLS - INTERIOR	0
D. NON-BEARING WALLS - EXTERIOR	0
E. NON-BEARING WALLS - INTERIOR	0
F. FLOOR	0
G. ROOF	0

11. FIRE SPRINKLER SYSTEMS (SECTION 903)
- COMPLYING WITH SECTION 508.3, MOST RESTRICTIVE OCCUPANCY REQUIRES FIRE SPRINKLER SYSTEM.
- R2 REQUIRES SPRINKLER.

NOTE: PROVIDE NEW FIRE SPRINKLER SYSTEM TO ACHIEVE FULL COVERAGE PER 420.5, PROVIDE FIRE ALARM AND SMOKE ALARMS AT R2 OCCUPANCY.

12. MEANS OF EGRESS
- TABLE 1006.21
  -- COMMON PATH OF EGRESS TRAVEL - 100' (B OCCUPANCY) = OK
  75' (A AND M OCCUPANCY) = OK
  125' (R2 OCCUPANCY) = OK
- EGRESS WIDTH. IBC SEC. 1005
  1. MINIMUM WIDTH
     A. DOOR (1005.3.2): 0.2" PER OCCUPANT
     B. STAIRWAY (1005.3.1): 0.2" PER OCCUPANT
  2. DOOR ENCROACHMENT
     A. DOOR SWING TRAVEL DOES NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ½
     B. FULLY OPEN DOES NOT PROJECT MORE THAN 7 INCHES
  3. EXIT & EXIT ACCESS DOORWAYS. IBC SEC. 1006
     A. TWO EXITS IN SPACES OVER 49 PERSONS
     B. ARRANGEMENT. IBC 1007 - ⅓ DIAGONAL (EXCEPTION 2)
  4. EXIT ACCESS TRAVEL DISTANCE. IBC SEC. 1017
     A. TABLE 1017.2
        - EXIT ACCESS TRAVEL DISTANCE - 250' (A, M, AND R OCCUPANCY) = OK
        - 300' (B OCCUPANCY) = OK
  5. CORRIDORS. IBC SEC. 1020
     A. RATING: IBC TABLE 1020.1 - (R OCCUPANCY) = 0.5 HR W/ FIRE SPRINKLER
        - (A, B, AND M OCCUPANCY) = 0 HR. W/ FIRE SPRINKLER
     B. DEAD END: IBC SEC. 1020.4 - 20 FT (A OCCUPANCY)
        - 50 FT (B, M, AND R2) WITH FIRE SPRINKLER
     C. WIDTH: IBC TABLE 1020.2 - CORRIDOR WIDTH - 44" MINIMUM WIDTH EXCEPT:
        36" IN DWELLING UNIT
        36" IF LESS THAN 50 OCCUPANTS

13. ROOF ACCESS:
- STAIRWAY NOT REQUIRED PER 1011.12
- WALL LADDER ACCESS PROVIDE VOLUNTARILY

14. OCCUPANT LOAD (SECTION 1004)
(SEE OCCUPANCY LOAD TABLE ON SHEET A-0.1)

15. MISCELLANEOUS NOTES:
- THE CONTRACTOR AND ALL SUBCONTRACTORS ARE TO PROVIDE FOR COMPLIANCE WITH DETAILED CODE REQUIREMENTS.
- PROVIDE DOOR HARDWARE THROUGHOUT PER 2020 IBC AND ADA REQUIREMENTS.
- RESTROOM CONSTRUCTION AND LAYOUT TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND ANSI REQUIREMENTS (SEE PLANS).

END OF CODE DATA

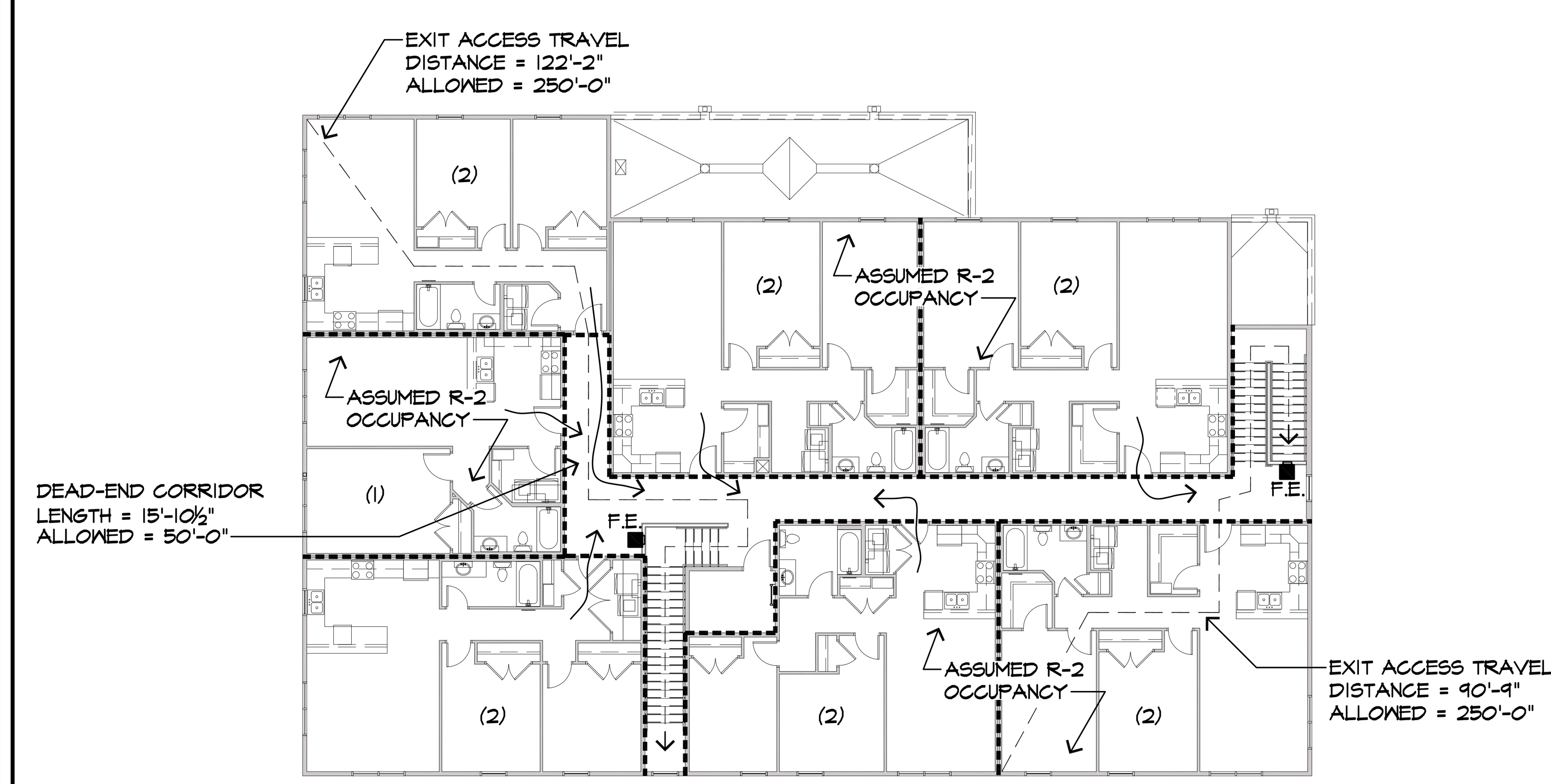
OCCUPANCY LOAD

ROOM NAME	USE FACTOR	AREA (S.F.)	OCCUPANTS
TENANT #1 (M)			
PREP	200	486	3
MERCANTILE	60	1665	28
STORAGE/ STOCK	300	531	2
PREP	200	147	1
			34 OCCUPANTS
TENANT #2 (B)			
OPEN	150	581	4
(WORST CASE M = 60 LF = 10 OCCUPANTS)			
TENANT #3 (B)			
OPEN	150	677	5
(WORST CASE M = 60 LF = 12 OCCUPANTS)			
TENANT #4 (B)			
OPEN	150	503	4
(WORST CASE M = 60 LF = 9 OCCUPANTS)			
TENANT #5 (A3)			
FITNESS	50	1300	26
OFFICE	150	119	1
			27 OCCUPANTS
			SUBTOTAL = 74

NOTE: RESIDENTIAL UNITS FACTORED AT 200 SF GROSS OF BEDROOM SPACE.

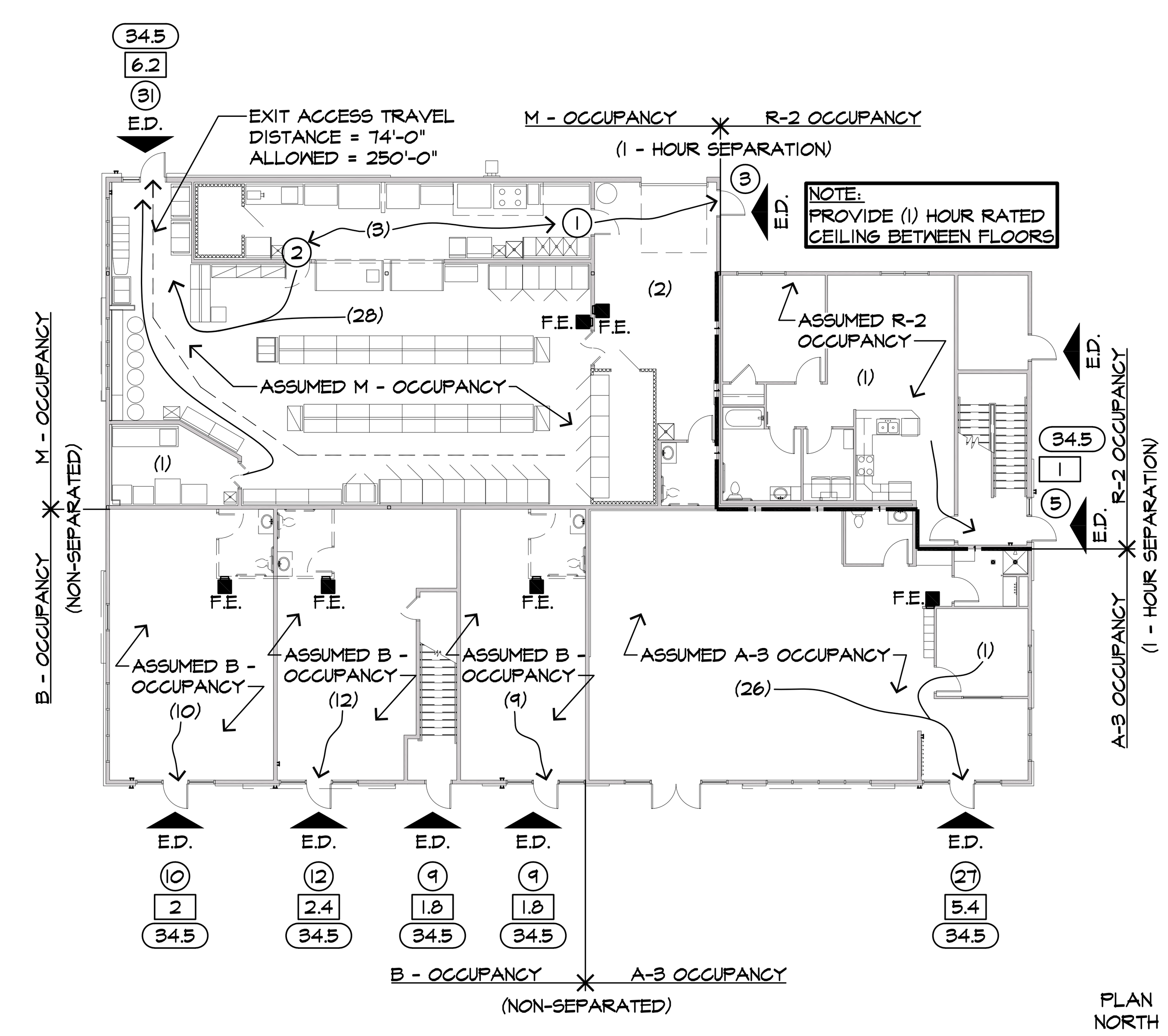
CODE STUDY KEY

Symbol	Meaning
- - - - -	30 MIN. FIRE RATED WALL (PER SECTION 708.3)
—1—1—	1 HOUR FIRE RATED WALL
E.D.	EXIT DISCHARGE
■ F.E.	FIRE EXTINGUISHER
(X)	OCCUPANTS WITHIN SPACE
~→	OCCUPANTS PATH OF EGRESS TO EXIT DISCHARGE
ⓧ	OCCUPANTS CONVERGING AT EXIT DISCHARGE
[X]	REQUIRED INCHES OF OPENING PER OCCUPANTS AT DISCHARGE
(X) oval	PROVIDED INCHES OF OPENING PER OCCUPANTS AT DISCHARGE.



UPPER LEVEL CODE PLAN
SCALE - 1/16" = 1'-0"

TRUE NORTH   PLAN NORTH



MAIN LEVEL CODE PLAN
SCALE - 1/16" = 1'-0"

TRUE NORTH   PLAN NORTH

FILE NAME:	2143_A0.1.DWG
JOB NO:	42143
DATE:	10/01/21
DRAWN BY:	LJF, ALG
CHECKED BY:	AJS
REVISIONS:	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANTHONY J. STOLL
DATE: 10-01-21 REGISTRATION NO. 22296

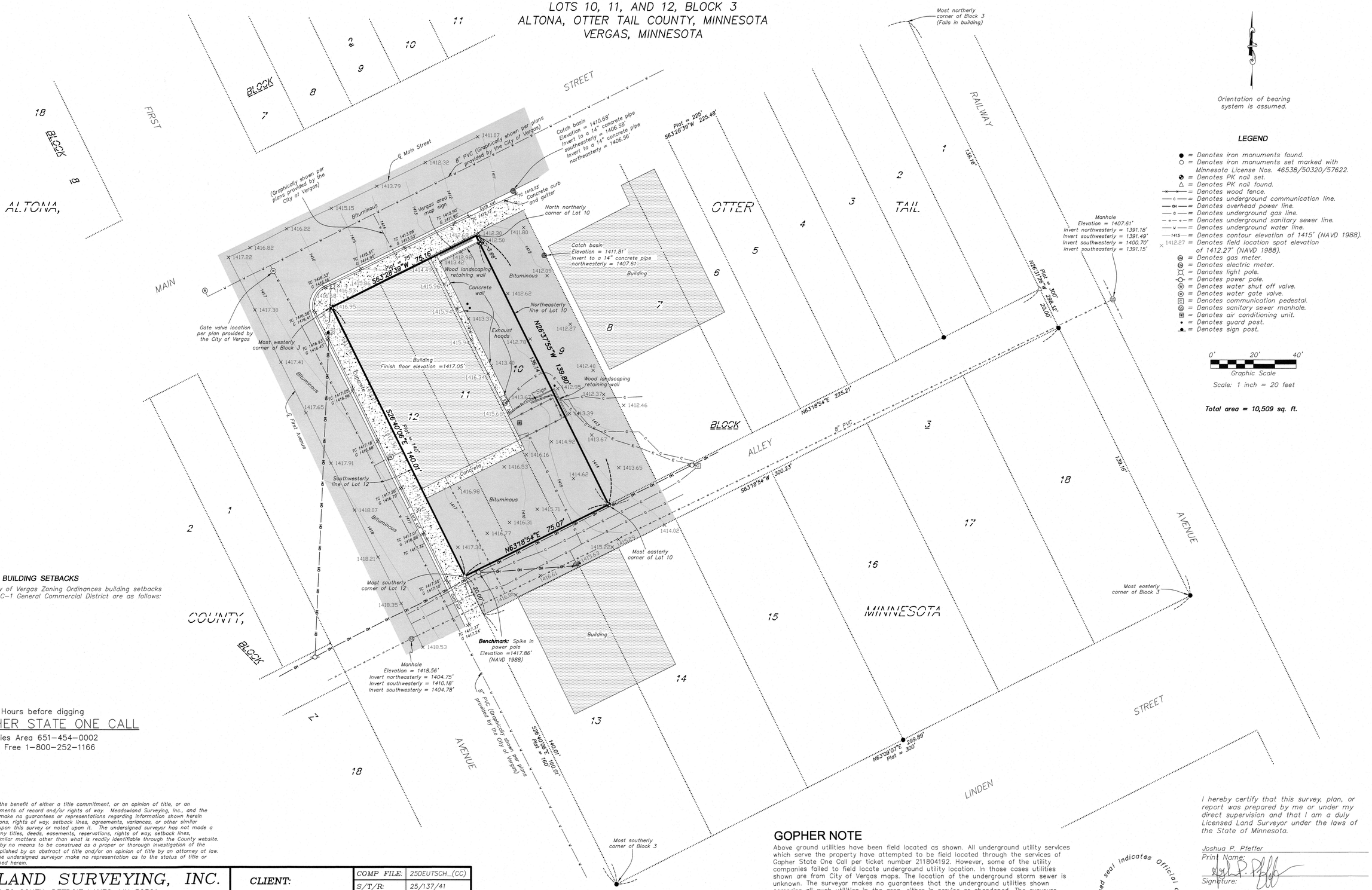
bhh partners
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING
VERGAS, MINNESOTA

SHEET NUMBER:
A-0.1

CERTIFICATE OF TOPOGRAPHIC AND BOUNDARY SURVEY

LOTS 10, 11, AND 12, BLOCK 3
ALTONA, OTTER TAIL COUNTY, MINNESOTA
VERGAS, MINNESOTA



BUILDING SETBACKS

Per current City of Vergas Zoning Ordinances building setbacks for land zoned C–1 General Commercial District are as follows:

Front – 0'

Side – 0'

Rear – 15'

Call 48 Hours before digging
GOPHER STATE ONE CALL
Twin Cities Area 651–454–0002
MN. Toll Free 1–800–252–1166

SURVEY DISCLAIMER:
This survey was prepared without the benefit of either a title commitment, or an opinion of title, or an abstraction of the parcel for easements of record and/or rights of way. Meadowland Surveying, Inc., and the undersigned professional surveyor make no guarantees or representations regarding information shown herein pertaining to easements, reservations, rights of way, setback lines, agreements, variances, or other similar matters other than those shown upon this survey or noted upon it. The undersigned surveyor has not made a search of the public records for any titles, deeds, easements, reservations, rights of way, setback lines, agreements, variances, or other similar matters other than what is readily identifiable through the County website. The use of the County website is by no means to be construed as a proper or thorough investigation of the public records as would be accomplished by an abstract of title and/or an opinion of title by an attorney at law. Meadowland Surveying, Inc., and the undersigned surveyor make no representation as to the status of title or easements on the property described herein.

MEADOWLAND SURVEYING, INC.
1118 HWY 59 SOUTH, DETROIT LAKES, MN 56501
EMAIL: frontdesk@meadowlandsurveying.com
www.meadowlandsurveying.com
218–847–4289

CLIENT:
S & Z PROPERTIES LLC
105 EAST MAIN STREET
VERGAS, MN 56587

COMP FILE:	25DEUTSCH_(CC)
S/T/R:	25/137/41
DWG FILE:	25S&ZPROPERTIES
COMP BY:	JSL
DRAWN BY:	JSL

GOPHER NOTE

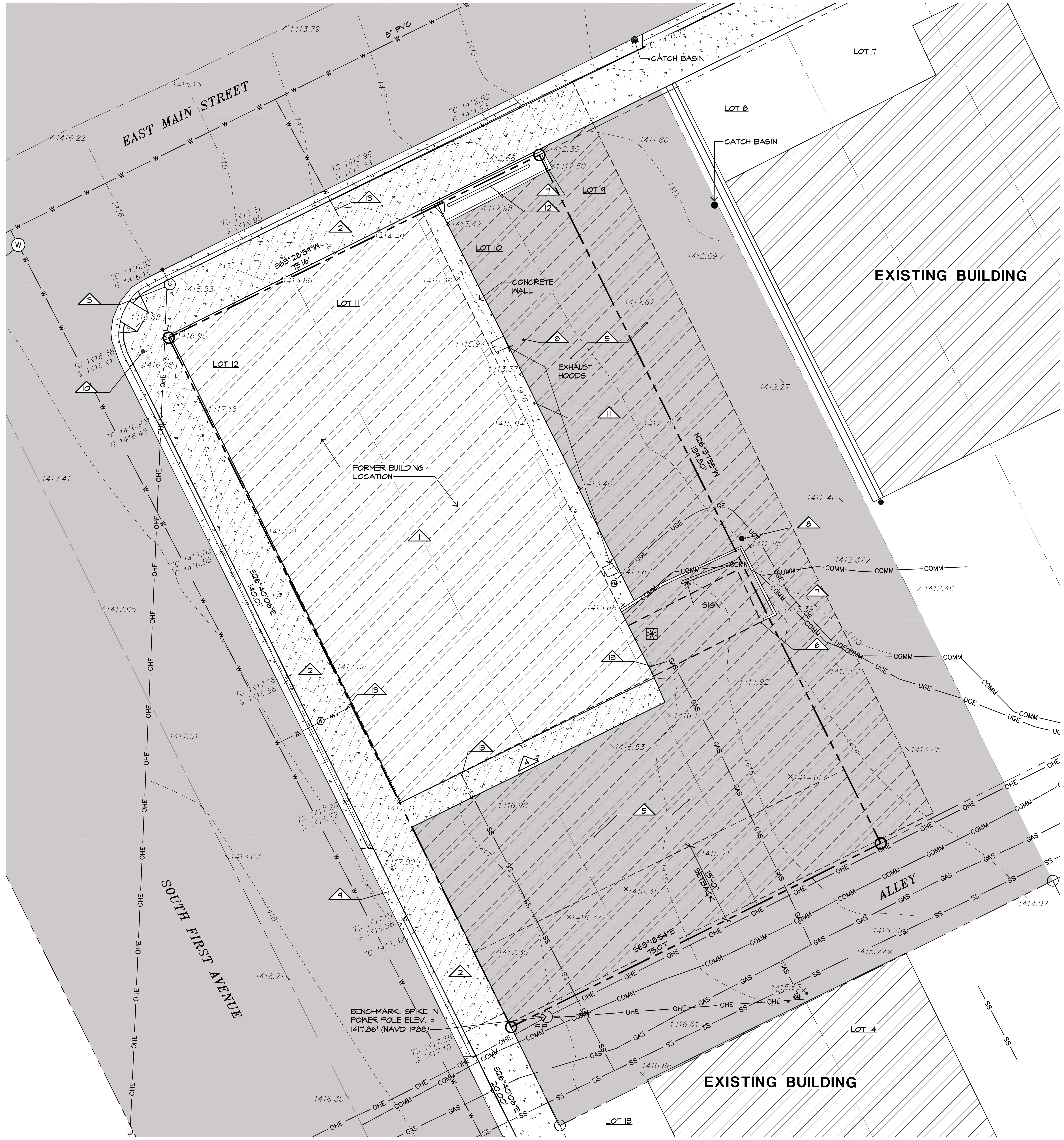
Above ground utilities have been field located as shown. All underground utility services which serve the property have attempted to be field located through the services of Gopher State One Call per ticket number 211804192. However, some of the utility companies failed to field locate underground utility location. In those cases utilities shown are from City of Vergas maps. The location of the underground storm sewer is unknown. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities. Prior to any excavation or digging contact Gopher State One Call for an on–site location (612–454–0002).

Raised seal indicates official copy

I hereby certify that this survey, plan, or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.

Joshua P. Pfeffer
Print Name:
Signature:
August 5, 2021 — *57622*
Date: — *License #*

DRAWING NUMBER: T9975–15



EXISTING/DEMOLITION SITE PLAN

SCALE - 1" = 10'-0"

NORTH

PLAN NORTH

DEMOLITION NOTES

1. FORMER BUILDING LOCATION SHOWN DASHED. AREA TO BE BACKFILLED AND COMPACTED BY OWNER PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO REVIEW COMPACTION REPORTS PRIOR TO ANY WORK WITH NEW FOOTINGS.
2. REMOVE EXISTING CONCRETE SIDEWALK TO BACK OF CURB. EXISTING CURB AND GUTTER TO REMAIN AND BE PROTECTED.
3. EXISTING STREET LIGHT TO REMAIN AND BE PROTECTED.
4. REMOVE EXISTING CONCRETE SIDEWALK COMPLETE.
5. REMOVE EXISTING ASPHALT PAVING THIS AREA COMPLETE.
6. REMOVE EXISTING WOOD FENCE COMPLETE. (IF NOT REMOVED PRIOR WITH BUILDING.)
7. REMOVE EXISTING WOOD RETAINING WALL COMPLETE. (IF NOT REMOVED PRIOR.)
8. REMOVE EXISTING STEEL BOLLARD COMPLETE. (IF NOT REMOVED PRIOR.)
9. REMOVE EXISTING CONCRETE CURB, CUT AND REPLACE WITH MATCHING CURB AND GUTTER.
10. MAINTAIN EXISTING TRAFFIC SIGNAGE DURING CONSTRUCTION. SETUP TEMPORARY AS NECESSARY.
11. REMOVE EXISTING RAISED CONCRETE FOUNDATION/TOPPING SLAB COMPLETE. (IF NOT REMOVED PRIOR WITH BUILDING.)
12. REMOVE EXISTING SIGN COMPLETE AND TURN OVER TO CITY OF VERGAS.
13. EXISTING UTILITY LINE EXTENSION, REROUTE OR ABANDONMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.

FILE NAME: 2143_A1.0.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: KCG, CCD
CHECKED BY: AJS
REVISIONS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANTHONY J. STOLL

DATE: 10-01-21 REGISTRATION NO. 22296

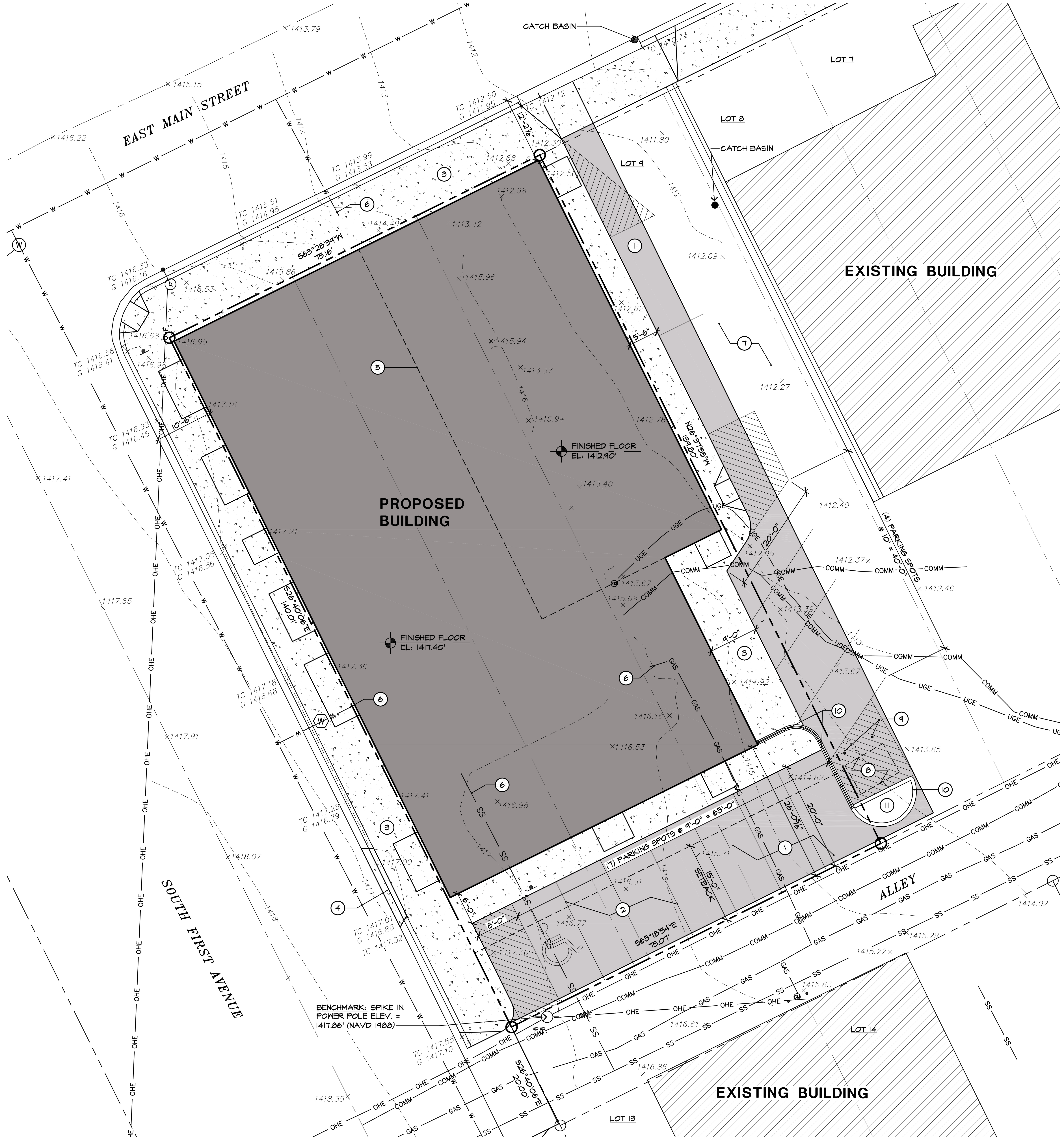
bhh partners
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING

VERGAS, MINNESOTA

SHEET NUMBER:

A-1.0



SITE NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING GRADES AND STAKE OUT THE BUILDING FOOTPRINT FOR OWNER/ARCHITECT APPROVAL PRIOR TO BEGINNING ANY SITE CLEARING.
- VERIFY ALL UTILITY ROUTING W/ APPLICABLE UTILITY COMPANY. ALL UTILITIES TO BE UNDERGROUND CONTACT GOPHER STATE ONE - CALL AT 1-800-252-1166 PRIOR TO ANY EXCAVATION.
- TOPOGRAPHIC AND SITE INFORMATION WAS OBTAINED FROM "CERTIFICATE OF TOPOGRAPHIC AND BOUNDARY SURVEY" PREPARED BY MEADOWLAND SURVEYING, INC. DATED AUGUST 5, 2021 PROJECT NUMBER T9975-15.
- SLOPE AT HANDICAPPED PARKING SPACES SHALL BE A MAXIMUM OF 2%.
- LONGITUDINAL SLOPE ON SIDEWALKS SHALL BE A MAXIMUM OF 5%.
- CROSS SLOPE ON EXTERIOR WALKING SURFACES SUCH AS SIDEWALKS SHALL BE A MAXIMUM OF 2%.
- PROVIDE POSITIVE DRAINAGE AT BUILDING PERIMETER (SLOPE AWAY FROM BUILDING AT 1:12 MIN.)
- REMOVE AND STOCKPILE TOPSOIL OFFSITE FOR REUSE BEFORE STARTING CONSTRUCTION.
- REFER TO A-1.2 AND CERTIFICATE OF SURVEY FOR GRADING PLAN AND ADDITIONAL SITE NOTES.

◯ CONSTRUCTION NOTES

1. SHADED AREA INDICATES NEW ASPHALT PAVING. ASSUME (2) LIFTS OF 1½" EACH OVER 6" MIN. COMPACTED FILL.
2. INDICATES PAINTED STRIPING, 4" WIDE. COLOR TO BE SELECTED BY OWNER/CITY.
3. INDICATES NEW 4" THICK REINFORCED CONCRETE SIDEWALK. WALK SHALL TIE INTO BACK OF EXISTING CURB WITH BOND BREAKER MATERIAL.
4. PROVIDE NEW CURB AND GUTTER AT INFILL OF EXISTING CURB CUT.
5. INDICATES STEP IN PROPOSED MAIN LEVEL FOR ELEVATION.
6. REFER TO SHEET A-1.0 FOR SCOPE OF WORK.
7. ALL TRAFFIC SIGNAGE & STRIPING TO BE COORDINATED WITH CITY.
8. DUMPSTER BY OWNER.
9. INDICATES STEEL PIPE BOLLARDS.
10. INDICATES LANDSCAPE RETAINING WALL W/ RAILING WHERE INDICATED. REFER TO A1.2 FOR SCOPE OF WORK.
11. INDICATES LANDSCAPE PLANTER.

PROPOSED SITE PLAN

SCALE - 1" = 10'-0"

TRUE NORTH

PLAN NORTH

FILE NAME: 2143_A1.1.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: KCS, CCD
CHECKED BY: AJS
REVISIONS:

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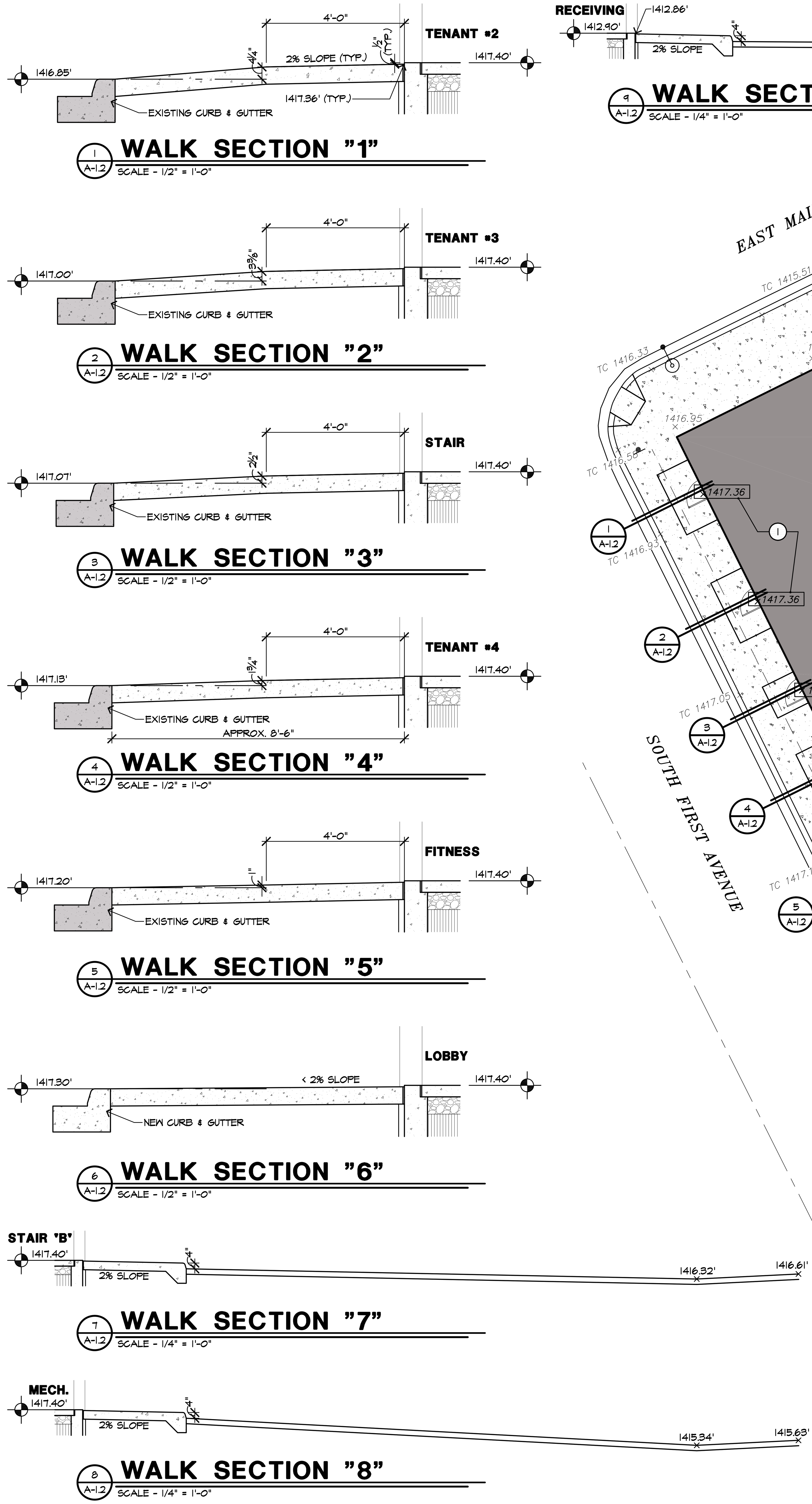
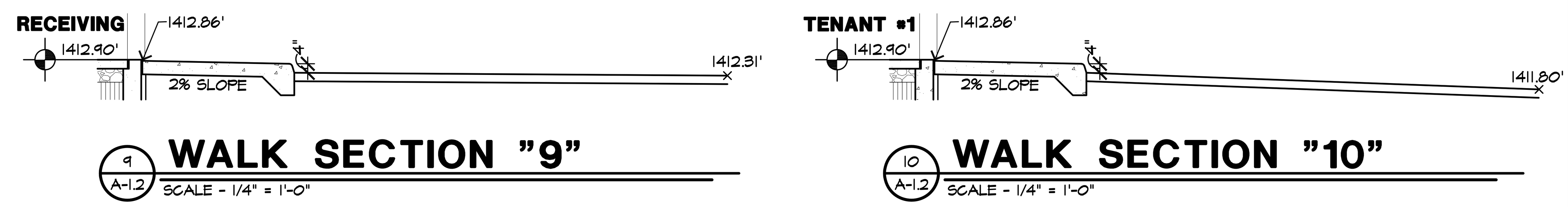
S & Z BUILDING

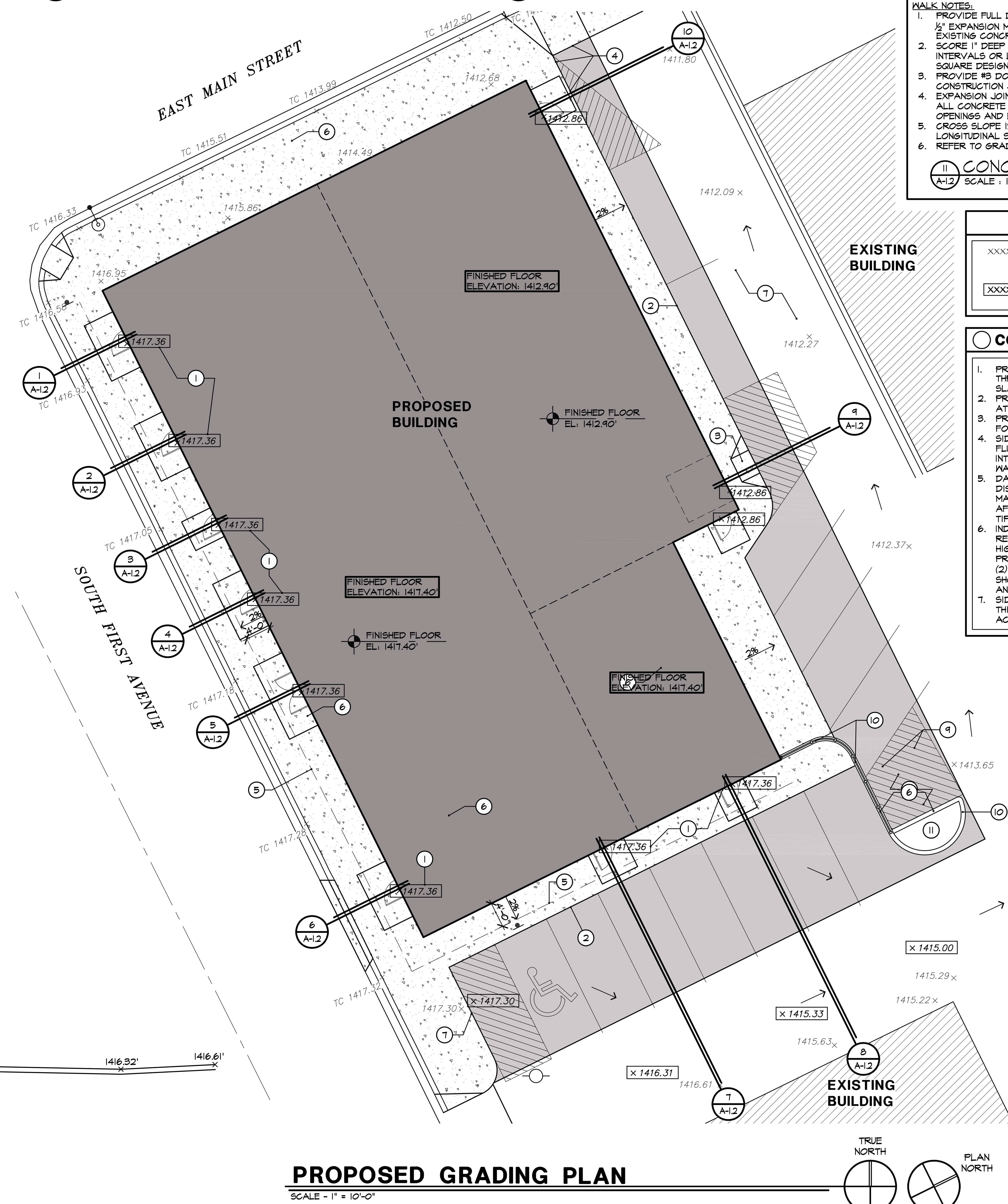
VERGAS, MINNESOTA

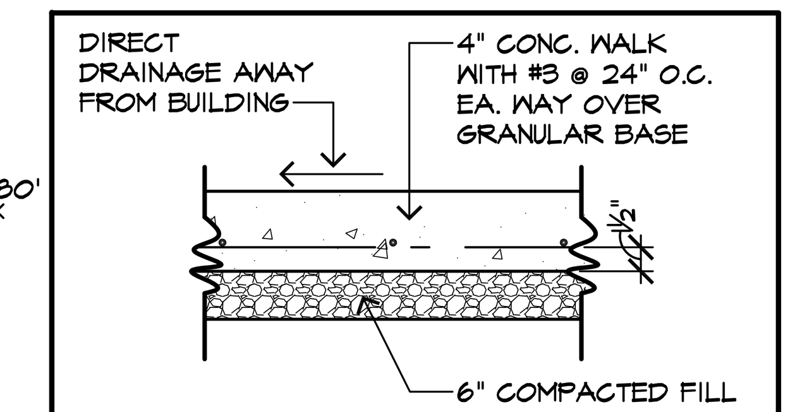
SHEET NUMBER:

A-1.1









WALK NOTES:

1. PROVIDE FULL DEPTH EXPANSION JOINT WITH ½" EXPANSION MATERIAL AT 60' INTERVALS, EXISTING CONCRETE JOINTS AND BUILDINGS.
2. SCORE 1" DEEP CONTROL JOINTS AT 5' INTERVALS OR LESS TO APPROXIMATE SQUARE DESIGN.
3. PROVIDE #3 DOWELS 12" O.C. AT CONSTRUCTION JOINTS.
4. EXPANSION JOINTS SHALL BE LOCATED AT ALL CONCRETE WALK INTERSECTIONS, DOOR OPENINGS AND BUILDING WALLS.
5. CROSS SLOPE 1% FROM BUILDING. LONGITUDINAL SLOPE 5% MAXIMUM.
6. REFER TO GRADING PLAN FOR ELEVATIONS

11 / A-1.2 CONCRETE WALK
SCALE : 1" = 1'-0"

KEY

XXXX.XX	=	EXISTING SPOT GRADE PER SITE SURVEY
XXXX.XX (boxed)	=	PROPOSED SPOT GRADE

CONSTR. NOTES

1. PROVIDE ½" DROP AT THRESHOLD FROM BUILDING SLAB TO SIDEWALK.
2. PROVIDE 4" H. INTEGRAL CURB AT SIDEWALK EDGE.
3. PROVIDE CURB CUT ACCESS FOR DELIVERIES.
4. SIDEWALK AND DRIVE SHALL FLUSH OUT AT THIS INTERSECTION, CURB EDGE WALK HAVING TAPERED DOWN.
5. DASHED LINE INDICATES 4'-0" DISTANCE OUT FROM WALL TO MAINTAIN A SLOPE OF 2%. AFTER 4'-0", WALK MAY BE TIPPED TO SLOPE AS SHOWN.
6. INDICATES LANDSCAPE RETAINING WALL TO SUPPORT HIGHER GRADE AT PARKING. PROVIDE 42" METAL RAIL AT (2) SIDES OF TOP OF WALL AS SHOWN. WRAP WALL AROUND AND TIE-IN FOR SUPPORT.
7. SIDEWALK AND PAVING FLUSH THIS LOCATION FOR ACCESSIBILITY

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CHECKED BY: AJS
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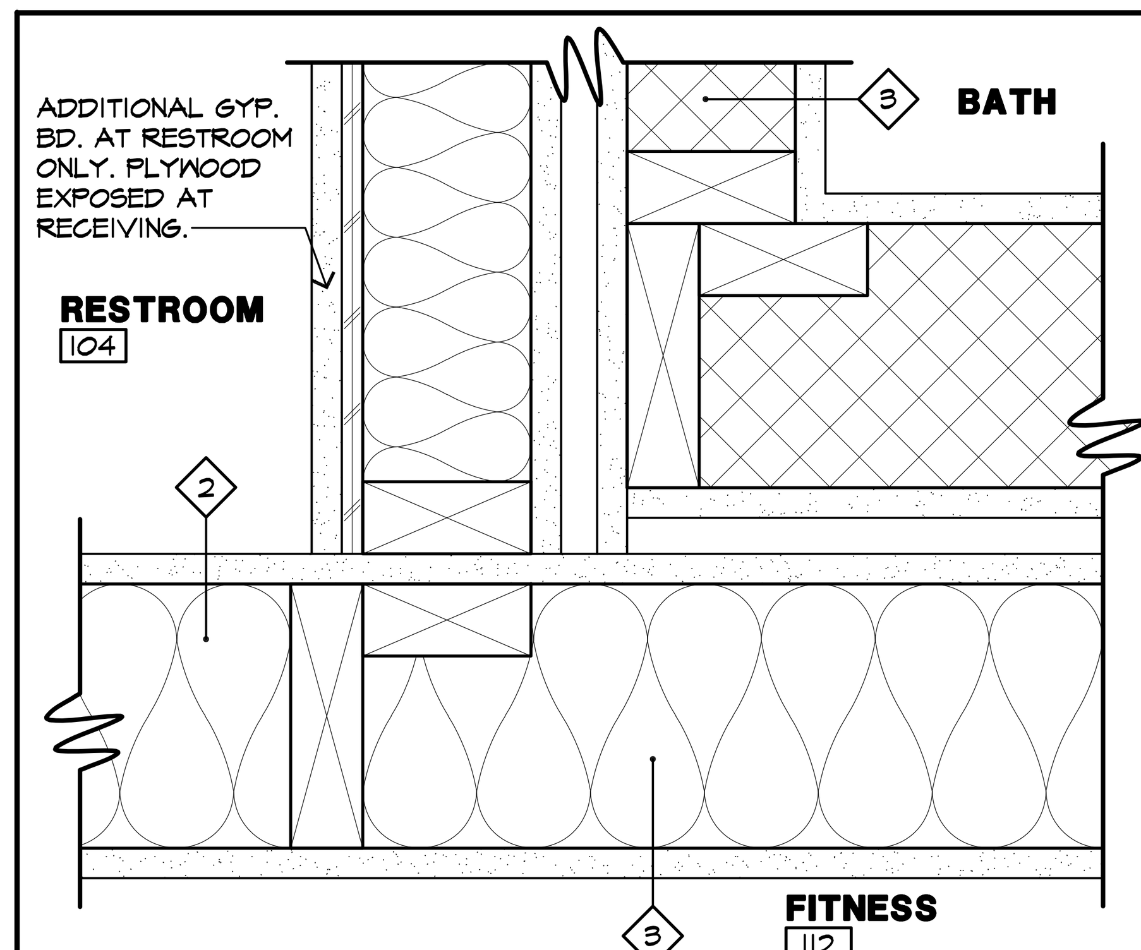
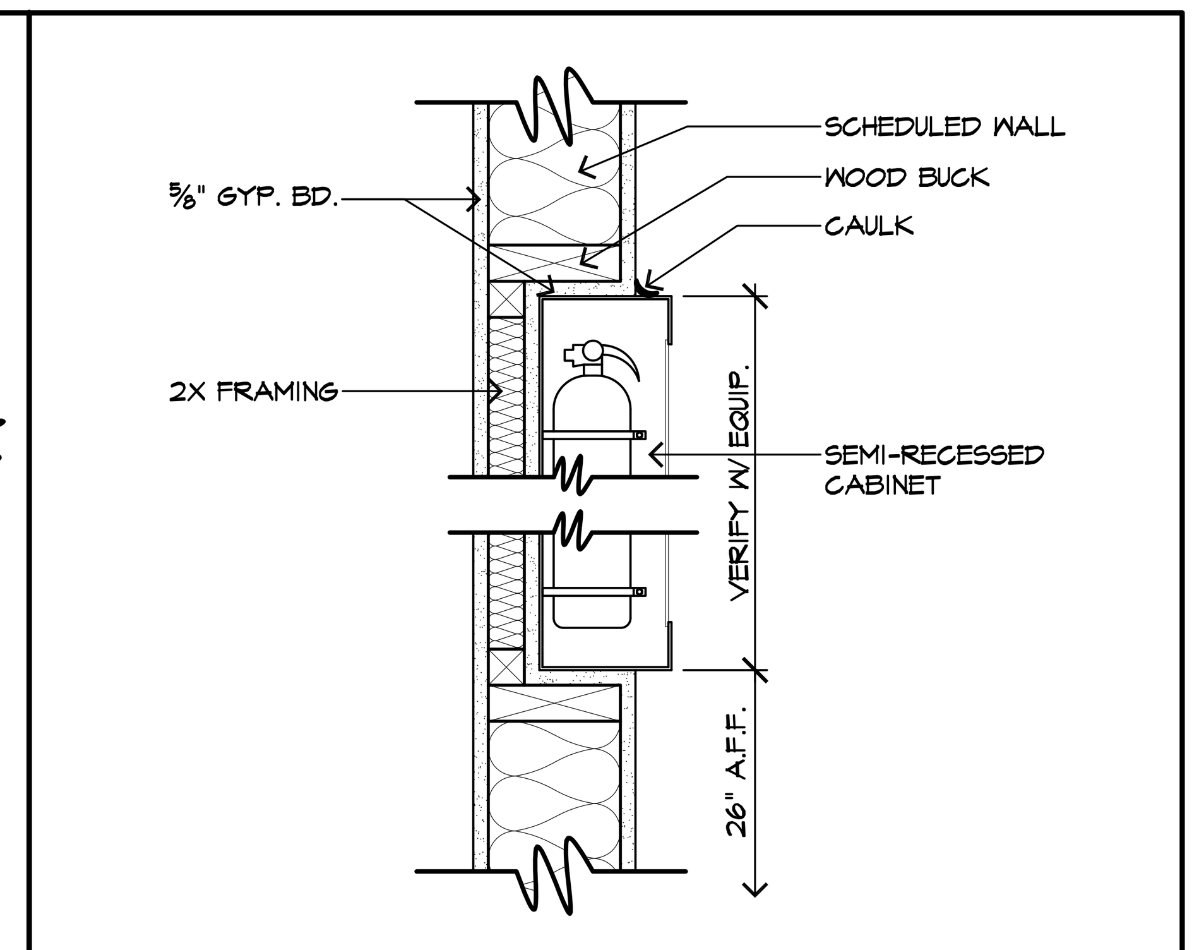
S & Z BUILDING
VERGAS, MINNESOTA

SHEET NUMBER:
A-1.2



1 / A-2.0 PLAN DETAIL
SCALE : 3" = 1'-0"



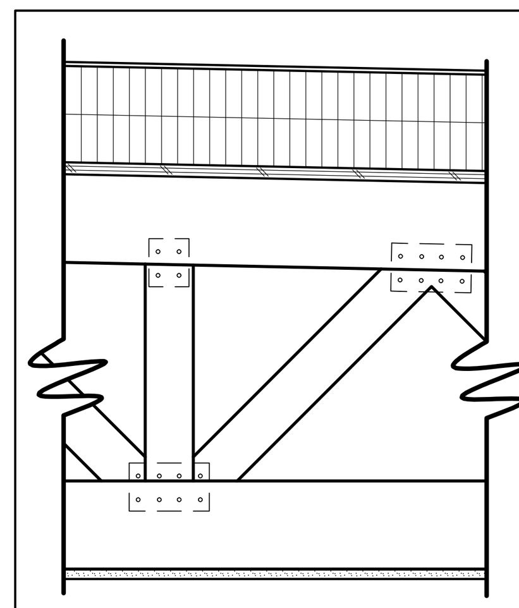
2 / A-2.0 FIRE EXTINGUISHER DETAIL
SCALE : 1-1/2" = 1'-0"

CONSTRUCTION NOTES

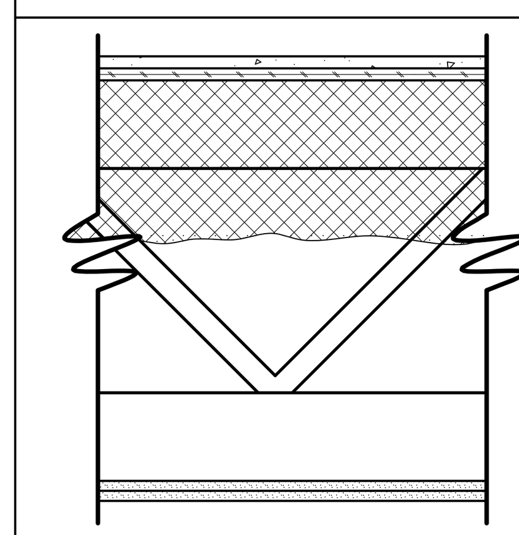
GENERAL NOTES:
- FIRE EXTINGUISHER, SMOKE DETECTORS AND FIRE SPRINKLER HEAD LAYOUTS TO BE ADJUSTED AND INCLUDED PER TENANT FIT UP.

1. DASHES LINES INDICATE COVERED SUNSHADE/ROOF ELEMENT ABOVE. SEE EXTERIOR ELEVATIONS FOR MORE INFO.
2. DASHED LINES INDICATE PRESENCE OF ACCENT FEATURE/SIDING CHANGE AT EXTERIOR ELEVATIONS. SHOWN ON PLAN FOR COORDINATION PURPOSES ONLY.
3. SOLID LINES INDICATE LOCATION OF STONE VENEER AT EXTERIOR FOR COORDINATION PURPOSES. REFER TO EXTERIOR ELEVATIONS FOR MORE INFO.
4. INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET (SEE DETAIL 2/A-2.0).
5. ONE-WAY GLAZING FILM BY TENANT.
6. PROVIDE (1) LAYER PLYWOOD THIS FACE OF WALL PRIOR TO GYPSUM BOARD SHEATHING.
7. INDICATES FURNACE LOCATION. VERIFY SCOPE W/ MECH.
8. LINE OF STAIR/LANDING ABOVE.
9. LOCKERS BY TENANT.
10. OWNER OPTION TO INSTALL DOOR OPERATOR AT UNIT FIT-UPS.
11. CAP FUTURE RESTROOM CEILING AT 8'-8" TO TOP OF FRAMING FOR MEZZANINE ABOVE. PROVIDE 2x6 FRAMING W/ 5/8" GYP EACH SIDE.

TYPICAL CONSTRUCTION ASSEMBLIES

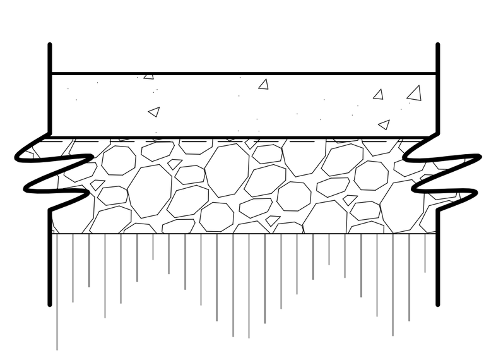


TYPICAL ROOF ASSEMBLY:
-(1) LAYER 60-MIL ADHERED EPDM ROOFING
-6" POLYISOCYANURATE INSULATION INSTALLED IN (2) 3" LAYERS, SEAMS STAGGERED
-(1) LAYER WOOD ROOF SHEATHING (SEE STRUCTURAL)
-SLOPED TOP CHORD WOOD ROOF TRUSS
-(1) LAYER 5/8" TYPE "X" GYP. BOARD



1-HOUR RATED ASSEMBLY
GA FILE # FC5512
STC RATING - 47 EST.

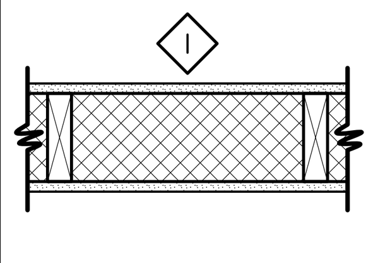
TYPICAL FLOOR/CEILING ASSEMBLY:
-3/4" GYP-CRETE FLOOR TOPPING
-(1) LAYER FLOOR SHEATHING (SEE STRUCTURAL)
-WOOD FLOOR TRUSS
-6" MIN. OPEN CELL SPRAY FOAM INSULATION TO BOTTOM OF SHEATHING
-(2) LAYERS 5/8" TYPE "X" GYP. BOARD



TYPICAL SLAB ON GRADE:
-4" T. REINFORCED CONCRETE SLAB
-10 MIL POLY VAPOR BARRIER (SEALED SEAMS)
-6" MIN. COMPACTED FILL
-UNDISTURBED SOILS

WALL TYPES

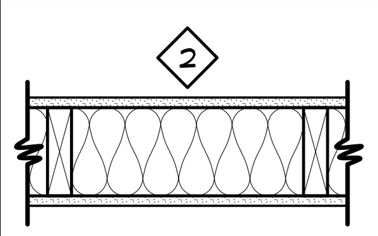
NOTES:
- UNLESS NOTED OTHERWISE, ALL WALLS SHALL BE OF TYPE "2" AT INTERIOR LOCATIONS.
- ALL DIMS. ARE TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
- ALL PENETRATIONS SHALL BE FIRE CAULKED BY CONTRACTOR ASSOCIATED WITH PENETRATION WITH HILTI PRODUCTS. LABEL PER MANUFACTURER.



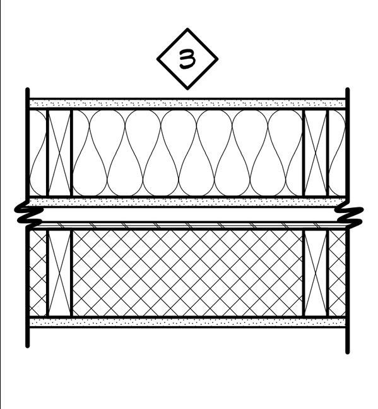
CORRIDOR WALL (30 MIN. FIRE RATED):
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT "QUIET ROCK"
-2X WD. STUDS AS DIM'D @ 16" O.C. (SEE STRUCT.) (EXTEND FULL HT. TO STRUCT. ABOVE)
-3½" OPEN CELL SPRAY FOAM INSUL.
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT "QUIET ROCK"

GA #WP3644 SIM. EST. STC. RAT. 38

NOTE: SEE PLANS FOR SPECIFIC LOCATIONS OF AN ADDITIONAL LAYER OF WOOD SHEATHING.

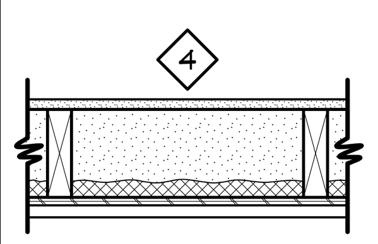


PARTITION WALL:
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT
-2X WD. STUDS AS DIM'D @ 16" O.C. (EXTEND FULL HT. TO STRUCT. ABOVE)
-SOUND BATT INSUL. FULL HEIGHT
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT
NOTE: USE 5/8" TYPE "X" MOISTURE RESISTANT GYP. AT ALL WET LOCATIONS



PARTY WALL:
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT "QUIET ROCK"
-2X WD. STUDS AS DIM'D @ 16" O.C. (EXTEND FULL HT. TO STRUCT. ABOVE)
-SOUND BATT INSULATION FULL HEIGHT
-(1) LAYER 5/8" TYPE "X" GYP SHEATHING FULL HEIGHT
-AIR SPACE
-(1) LAYER 7/16" PLYWOOD SHEATHING FULL HEIGHT (SEE STRUCT.)
-2X WD STUDS AS DIM'D @ 16" O.C. (EXTEND FULL HT. TO STRUCT. ABOVE)
-3½" OPEN CELL SPRAY FOAM INSUL.
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT "QUIET ROCK"
* SEE STRUCT. FOR SHEAR WALL SHEATHING REQ'S AND LOCATION OF WOOD PLACEMENT

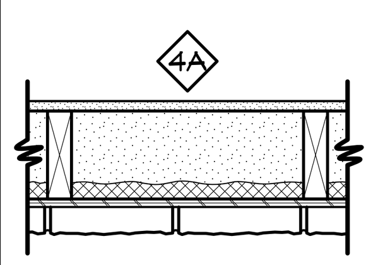
NOTE: REFER TO CODE STUDY SHEET A-0.1 FOR WALL RATING REQUIREMENTS BASED UPON SEPARATION NEEDS.



EXTERIOR WALL W/ SIDING:
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT. (NO POLY VAPOR BARRIER)
-2x6 WD. STUDS (SPACING - SEE STRUCT.)
-1" CLOSED CELL SPRAY FOAM INSULATION W/ BIBS INSULATION AT REMAINDER OF CAVITY.
-(1) LAYER ZIP WALL SHEATHING
-LP SMARTSIDE SIDING, HORIZONTAL OR BOARD & BATTEN (SEE EXTERIORS)

*SEE STRUCT. FOR SHEAR WALL SHEATHING REQ'S

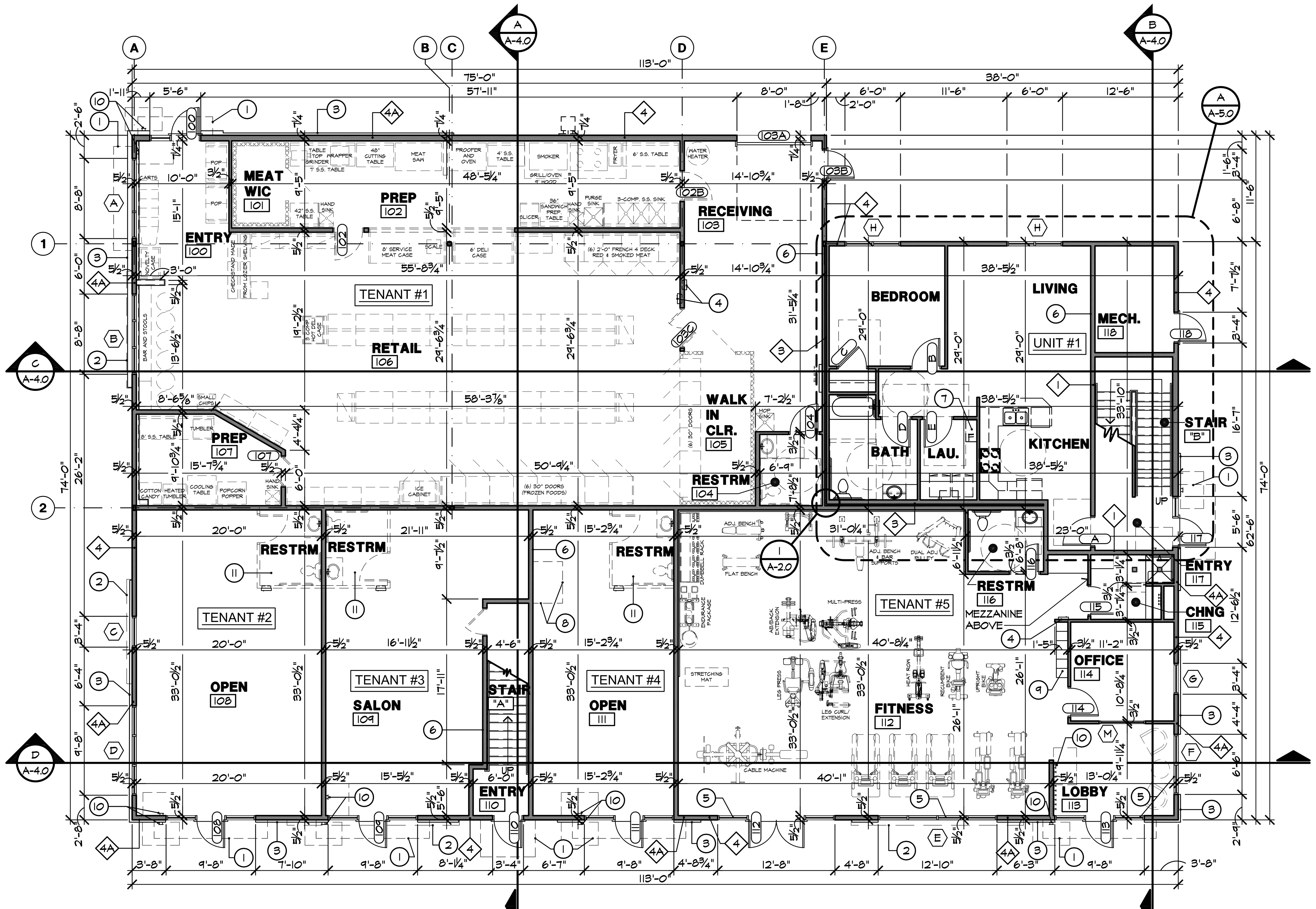
NOTE: SEE ELEVATIONS FOR SIDING LOCATIONS.



EXTERIOR WALL W/ STONE:
-(1) LAYER 5/8" TYPE "X" GYP BD FULL HEIGHT. (NO POLY VAPOR BARRIER)
-2x6 WD. STUDS (SPACING - SEE STRUCT.)
-1" CLOSED CELL SPRAY FOAM INSULATION W/ BIBS INSULATION AT REMAINDER OF CAVITY.
-(1) LAYER 15# SYN. FELT BEHIND STONE OVER ZIP WALL SHEATHING
-MORTARLESS VERSETTA STONE PANEL

*SEE STRUCT. FOR SHEAR WALL SHEATHING REQ'S

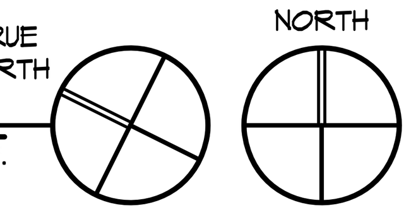
NOTE: SEE ELEVATIONS FOR STONE LOCATIONS.



MAIN LEVEL FLOOR PLAN

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

7,925 S.F.



bhh partners
PLANNERS / ARCHITECTS

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S & Z BUILDING

VERGAS, MINNESOTA

FILE NAME:	2143_A2.0.DWG
JOB NO:	42143
DATE:	10/01/21
DRAWN BY:	LJF, ALG
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REVISIONS:	

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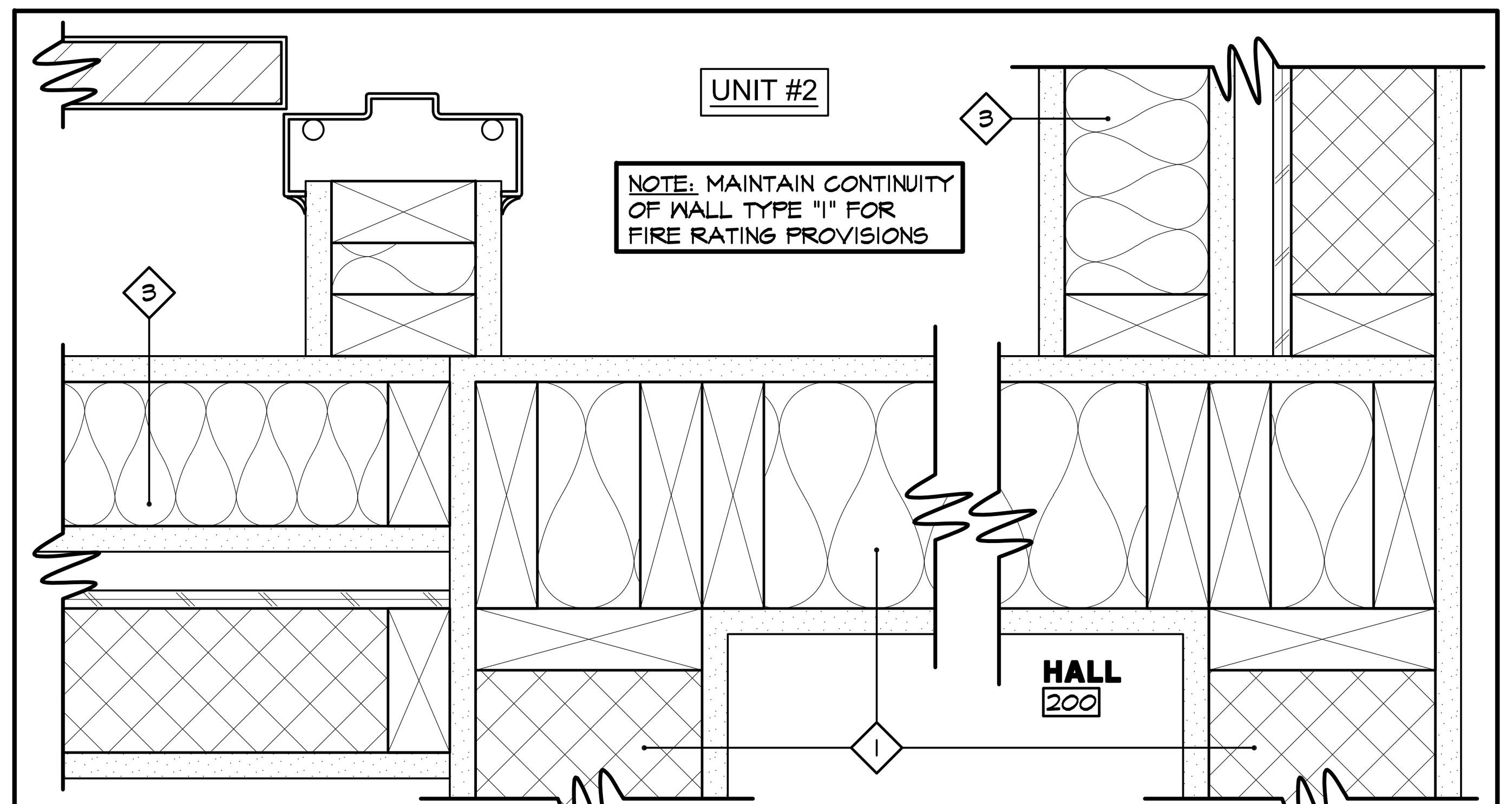
ANTHONY J. STOLL

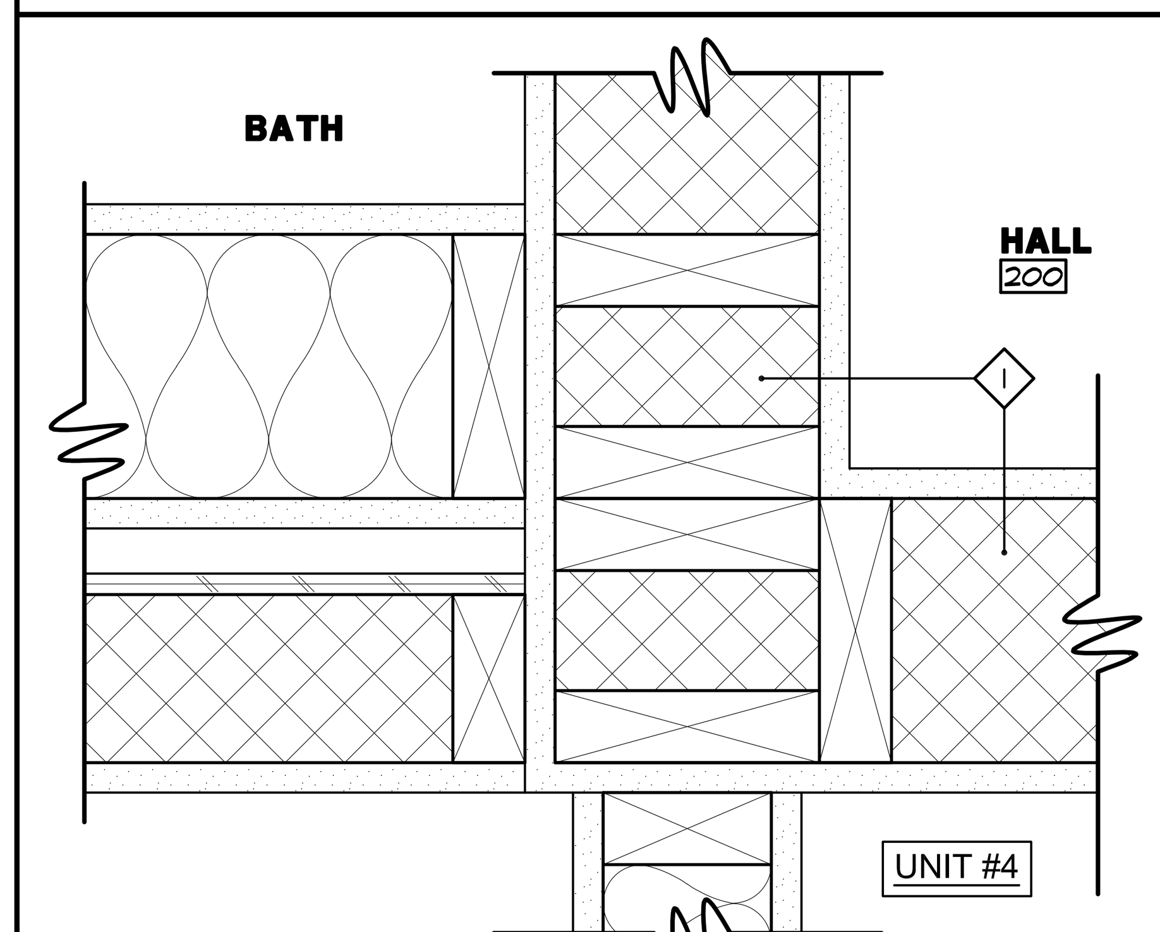
DATE: 10-01-21 REGISTRATION NO. 22296

SHEET NUMBER:

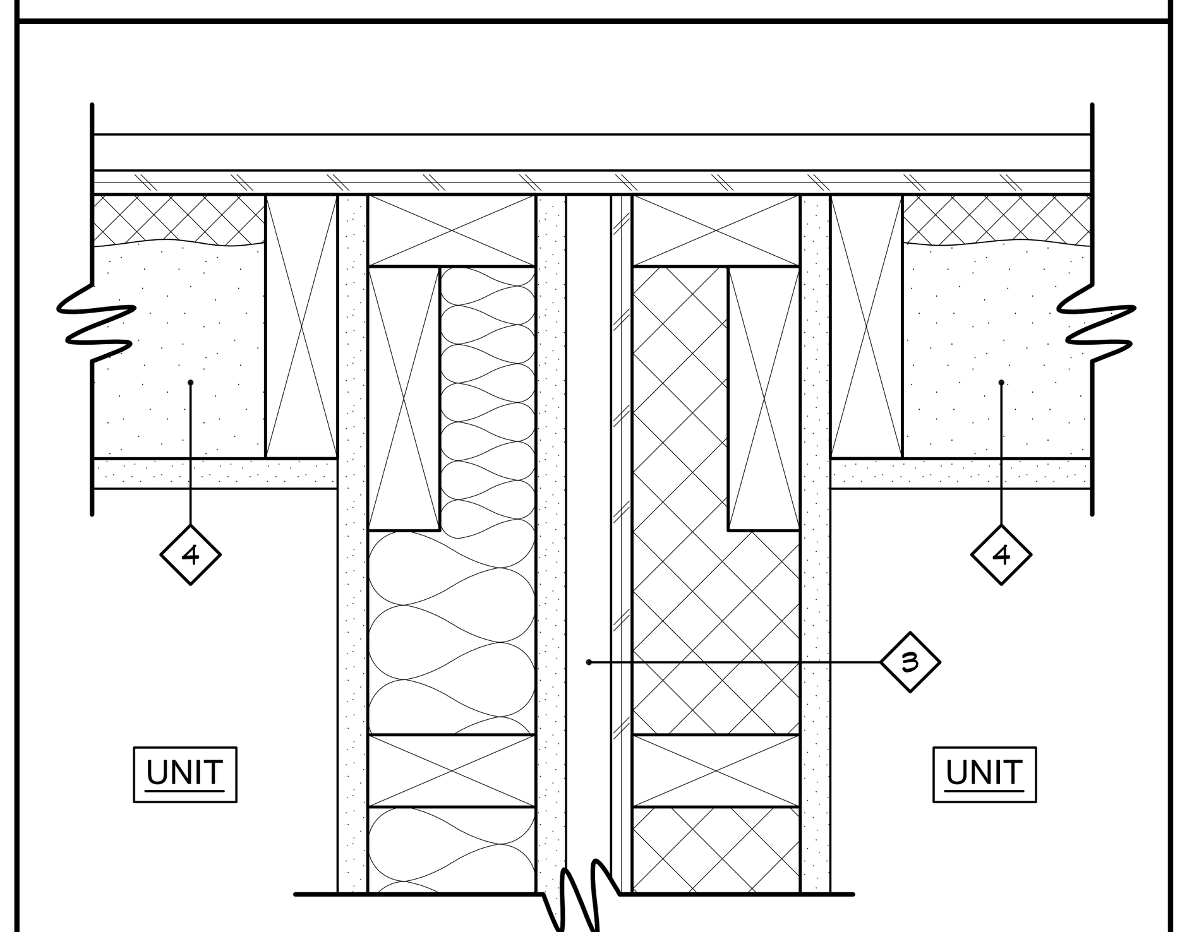
A-2.0



1 A-2.1 PLAN DETAIL
SCALE : 3" = 1'-0"



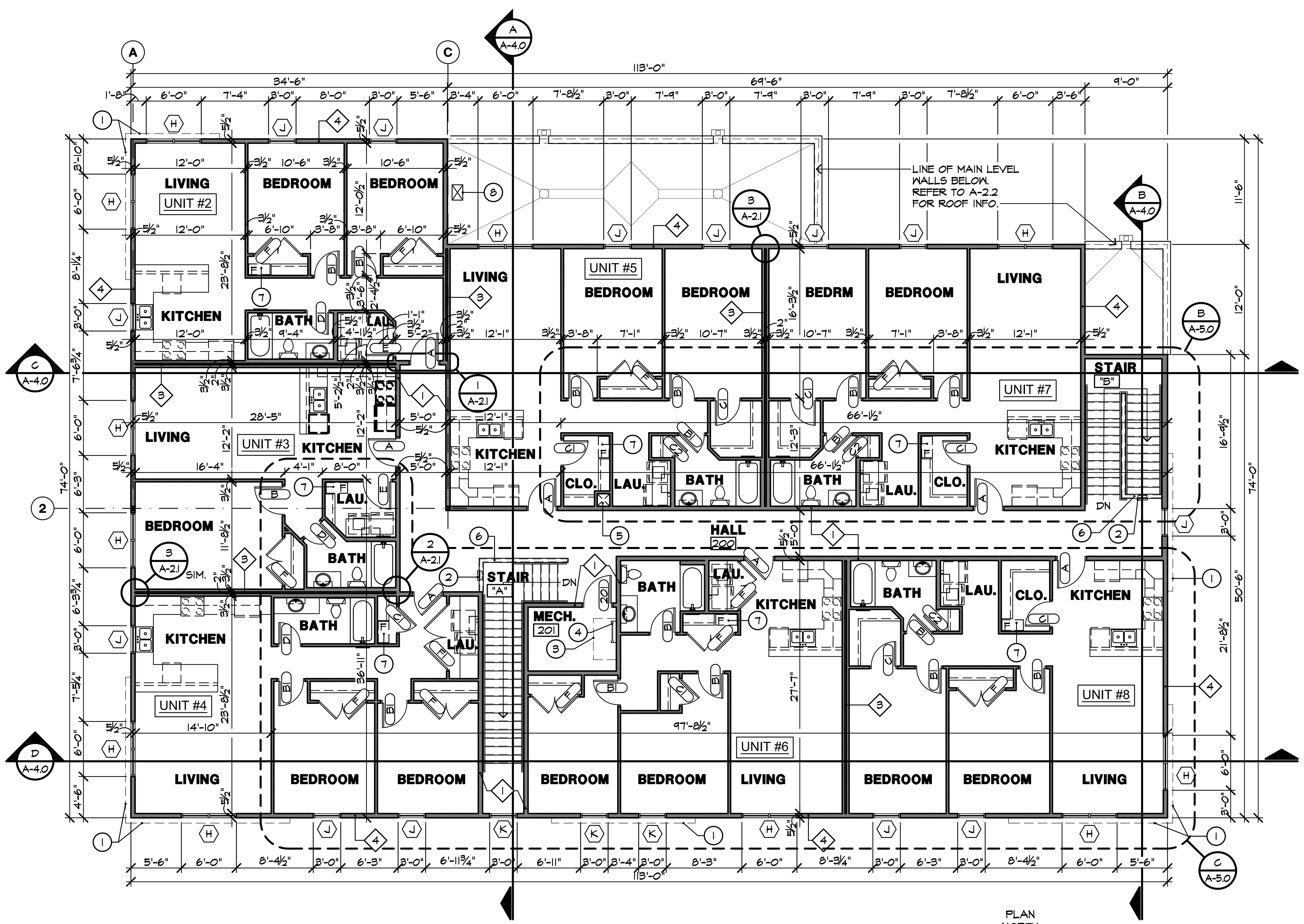
2 A-2.1 PLAN DETAIL
SCALE : 3" = 1'-0"



3 A-2.1 PLAN DETAIL
SCALE : 3" = 1'-0"

CONSTRUCTION NOTES

1. DASHED LINES INDICATE PRESENCE OF ACCENT FEATURE/SIDING CHANGE AT EXTERIOR ELEVATIONS. SHOWN ON PLAN FOR COORDINATION PURPOSES ONLY.
2. INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET.
3. DASHED LINES INDICATE ROOF HATCH ABOVE.
4. INDICATES WALL MOUNTED WALL LADDER TO ROOF HATCH ABOVE. PROVIDE SOLID BLOCKING AS REQUIRED.
5. PROVIDE GYP. BD. AT INSIDE OF CHASE TO MAINTAIN FIRE SEPARATION.
6. PROVIDE 48" HIGH HALF WALL WITH CAP.
7. INDICATES FURNACE LOCATION. VERIFY SCOPE W/ MECH.
8. INDICATES EXPOSED DUCTWORK AT EXTERIOR.



UPPER LEVEL FLOOR PLAN

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

7,066 S.F.

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DATE: 10/01/21
DRAWN BY: LJF, ALG
CHECKED BY: AJS
REVISIONS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANTHONY J. STOLL
DATE: 10-01-21 REGISTRATION NO. 22296

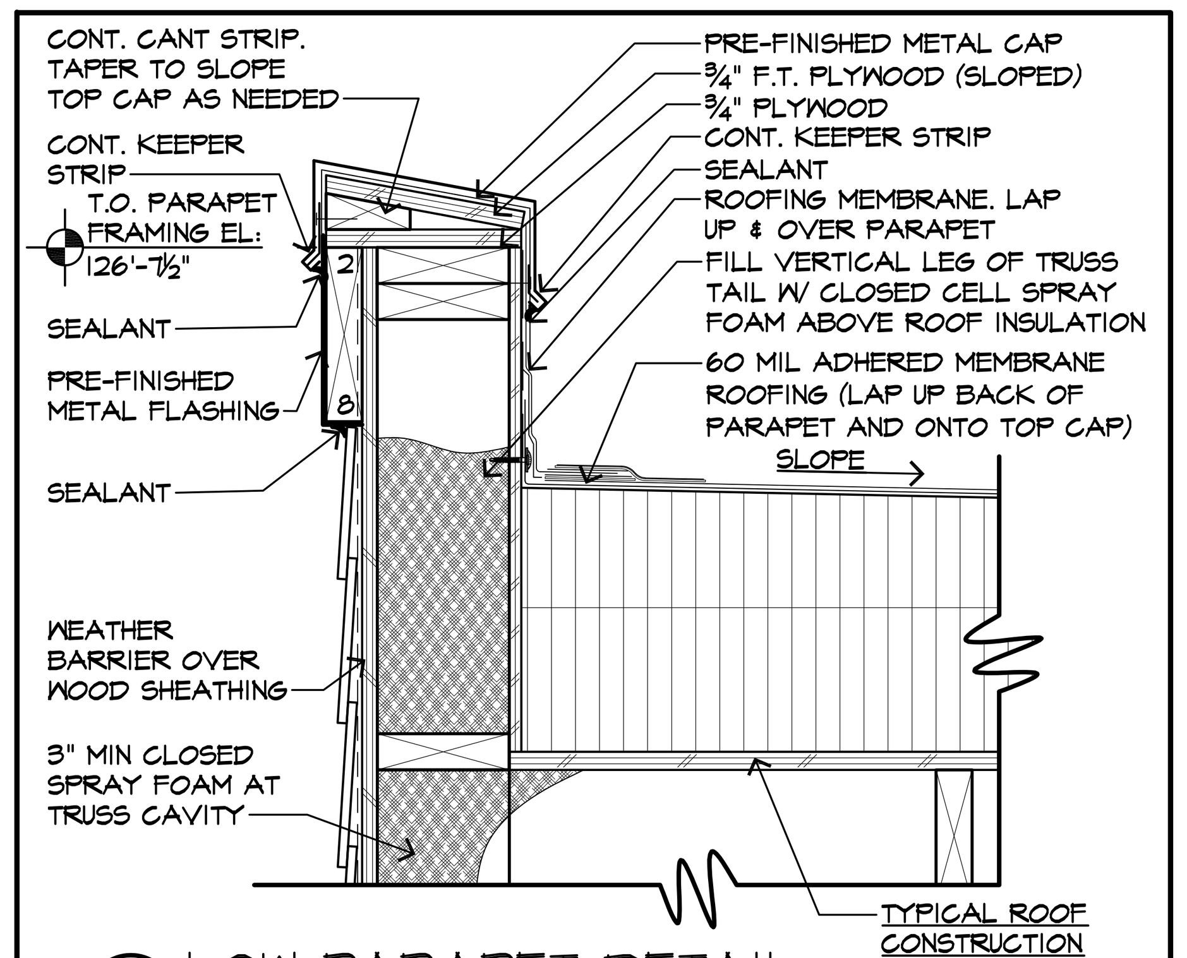
bhh partners
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING

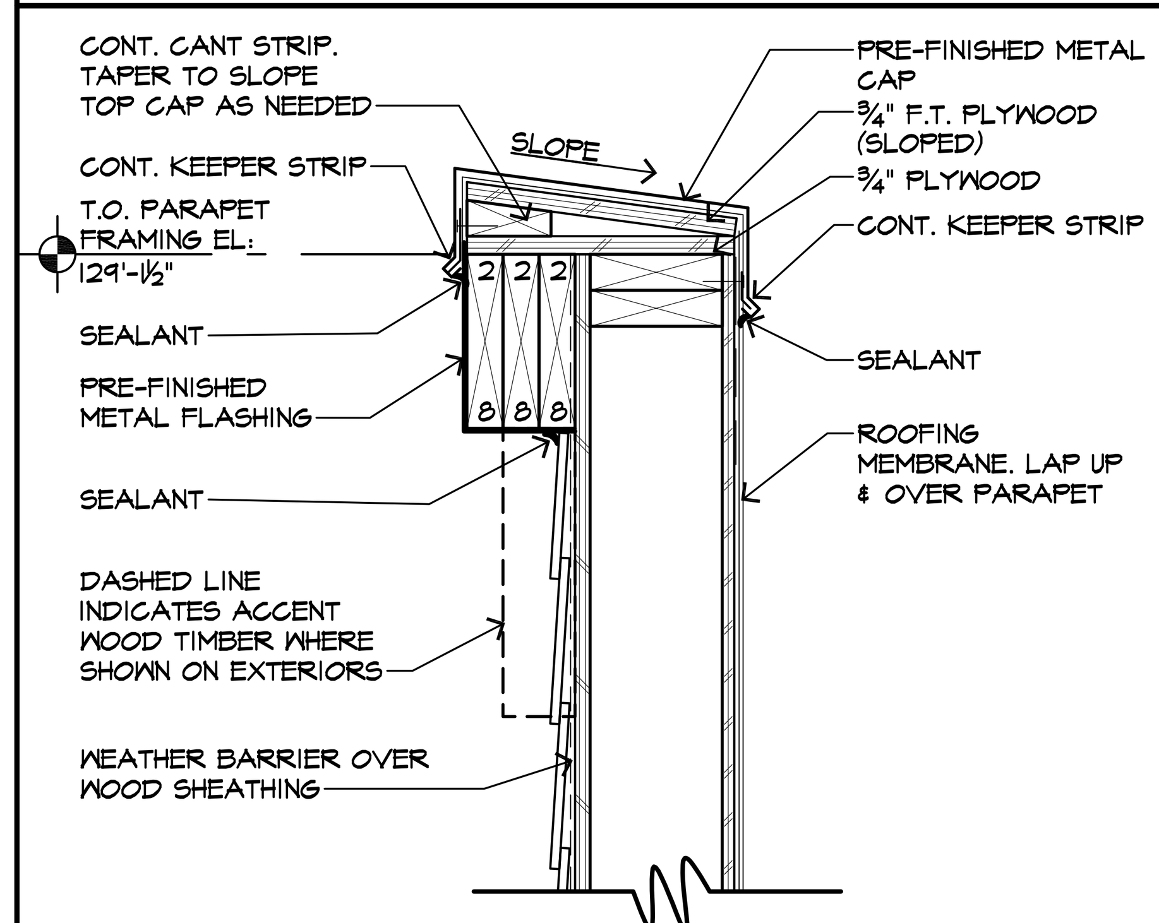
VERGAS, MINNESOTA

SHEET NUMBER:

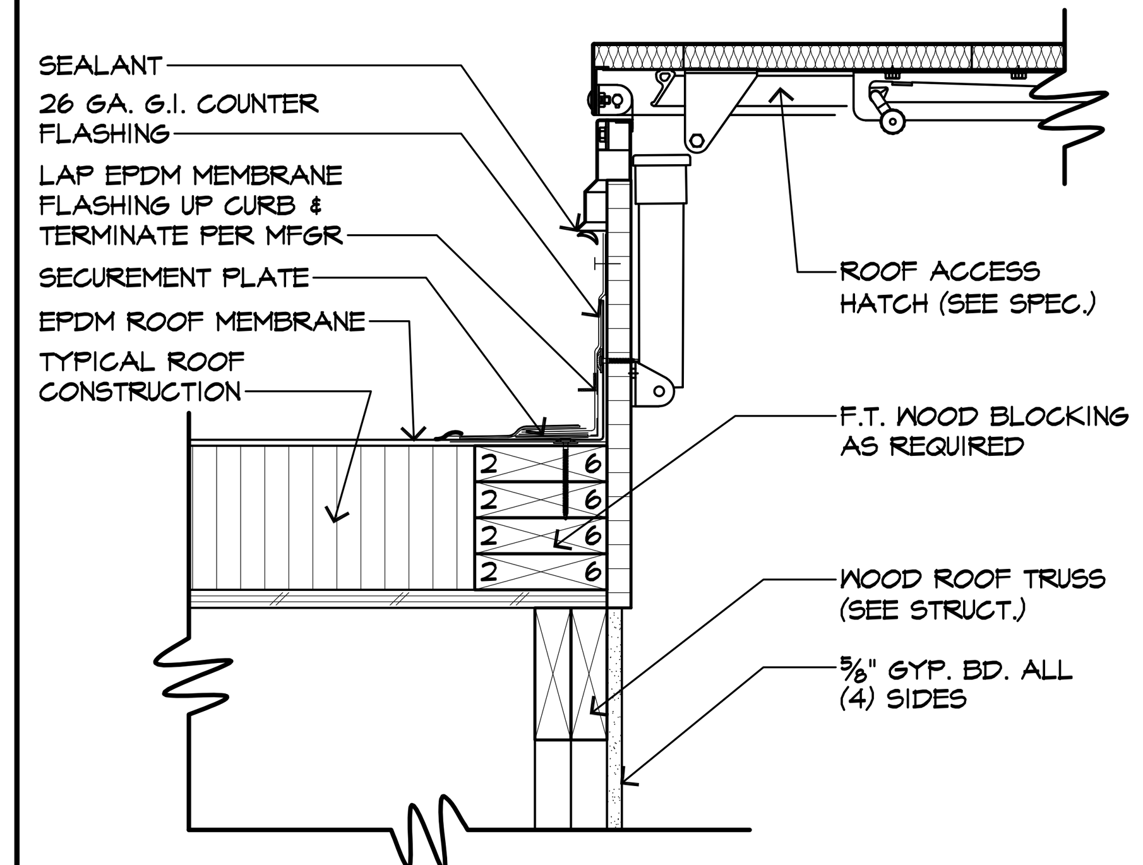
A-2.1



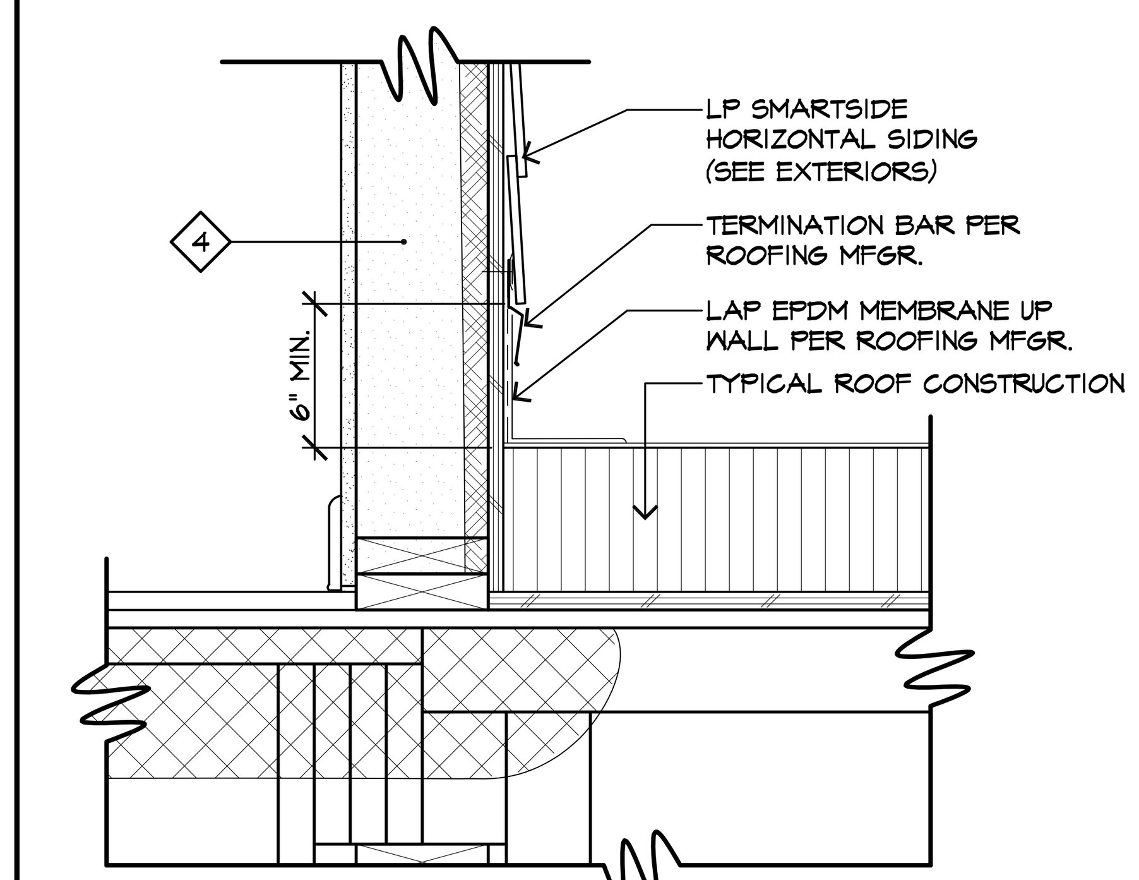
1 / A-2.2 LOW PARAPET DETAIL
SCALE : 1-1/2" = 1'-0"



2 / A-2.2 HIGH PARAPET DETAIL
SCALE : 1-1/2" = 1'-0"



3 / A-2.2 ROOF ACCESS HATCH DETAIL
SCALE : 1-1/2" = 1'-0"

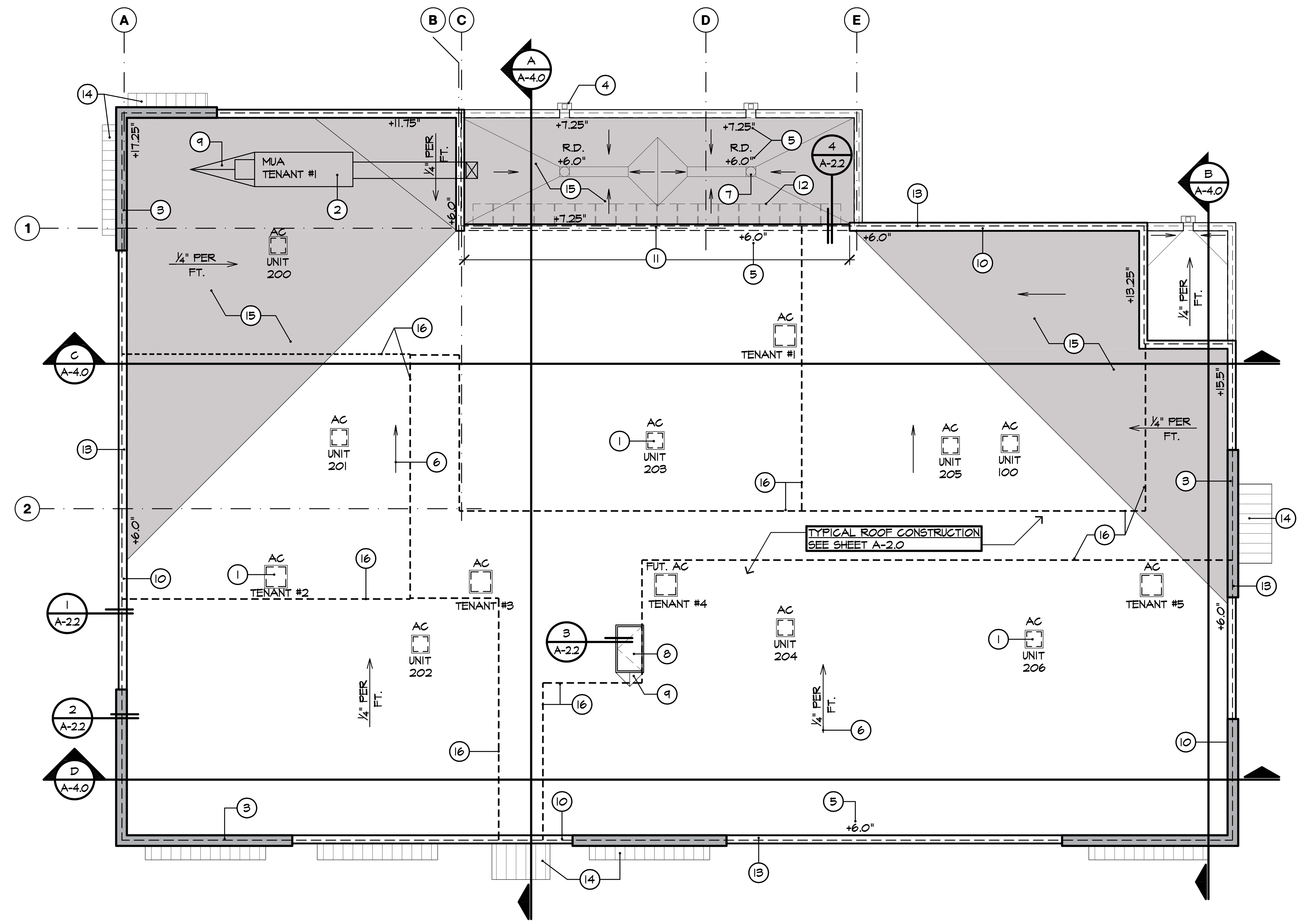


4 / A-2.2 ROOF TO WALL CONNECTION
SCALE : 1-1/2" = 1'-0"

CONSTRUCTION NOTES

GENERAL NOTES:
- PARTY WALLS SHALL EXTEND TO BOTTOM SIDE OF ROOF SHEATHING.
- ROOF TRUSS CAVITY TO BE FILLED FULL WITH INSULATION

1. INDICATES ROOF MOUNTED AIR CONDITIONING UNIT. MECHANICAL CONTRACTOR TO COORDINATE ROOF PENETRATIONS WITH ROOFING CONTRACTOR (TYPICAL).
2. INDICATES MAKE-UP AIR UNIT. MECHANICAL CONTRACTOR TO COORDINATE ROOF CURB, DUCT ROUTING AND PENETRATIONS WITH ROOFING CONTRACTOR.
3. SHADED PARAPET INDICATES RAISED STEP IN HEIGHT FROM ADJACENT. REFER TO EXTERIOR ELEVATIONS FOR MORE INFORMATION. (TYPICAL)
4. INDICATES SCUPPER OVERFLOW TO PRIMARY ROOF DRAIN.
5. INDICATES INSULATION THICKNESS. PROVIDE A CONSTANT 6" OF POLY ISO WITH ADDITIONAL TAPERED POLYSTYRENE AS REQUIRED FOR DRAINAGE (SHOWN SHADED).
6. INDICATES SLOPE OF ROOF WITHIN TRUSS ASSEMBLY BELOW.
7. INDICATES PRIMARY ROOF DRAIN TO STORM SEWER WITHIN ALLEY.
8. INDICATES THERMALLY BROKEN ROOF HATCH LOCATION. COORDINATE WITH ROOF TRUSS CONFIGURATION.
9. PROVIDE CRICKET FOR DRAINAGE AS REQUIRED.
10. EXTEND ROOF MEMBRANE UP WALL AND OVER TOP OF PARAPET (TYPICAL).
11. NO PARAPET THIS LOCATION TO ALLOW DRAINAGE ONTO LOW ROOF AREA.
12. INDICATES WALK-WAY PADS AS ADDITIONAL MEMBRANE PROTECTION THIS AREA FROM ROOF ABOVE.
13. INDICATES PREFINISHED METAL PARAPET CAP FLASHING. DASHED LINE WITHIN INDICATES OUTSIDE EDGE OF EXTERIOR WALL. REFER TO EXTERIOR ELEVATIONS FOR ADDITION INFO. (TYPICAL)
14. INDICATES PREFINISHED METAL AWNING STRUCTURE BELOW.
15. SHADING INDICATES BUILT-UP INSULATION CRICKET FOR DRAINAGE ON TOP OF BASE INSULATION.
16. DASHED LINE INDICATES LOCATION OF RATED WALLS TO BE FULL HEIGHT TO BOTTOM OF ROOF SHEATHING FOR FIRE SEPARATION AT TRUSS SPACE.



PROPOSED ROOF PLAN
SCALE - 1/8" = 1'-0"

TRUE NORTH
PLAN NORTH

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P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING
VERGAS, MINNESOTA

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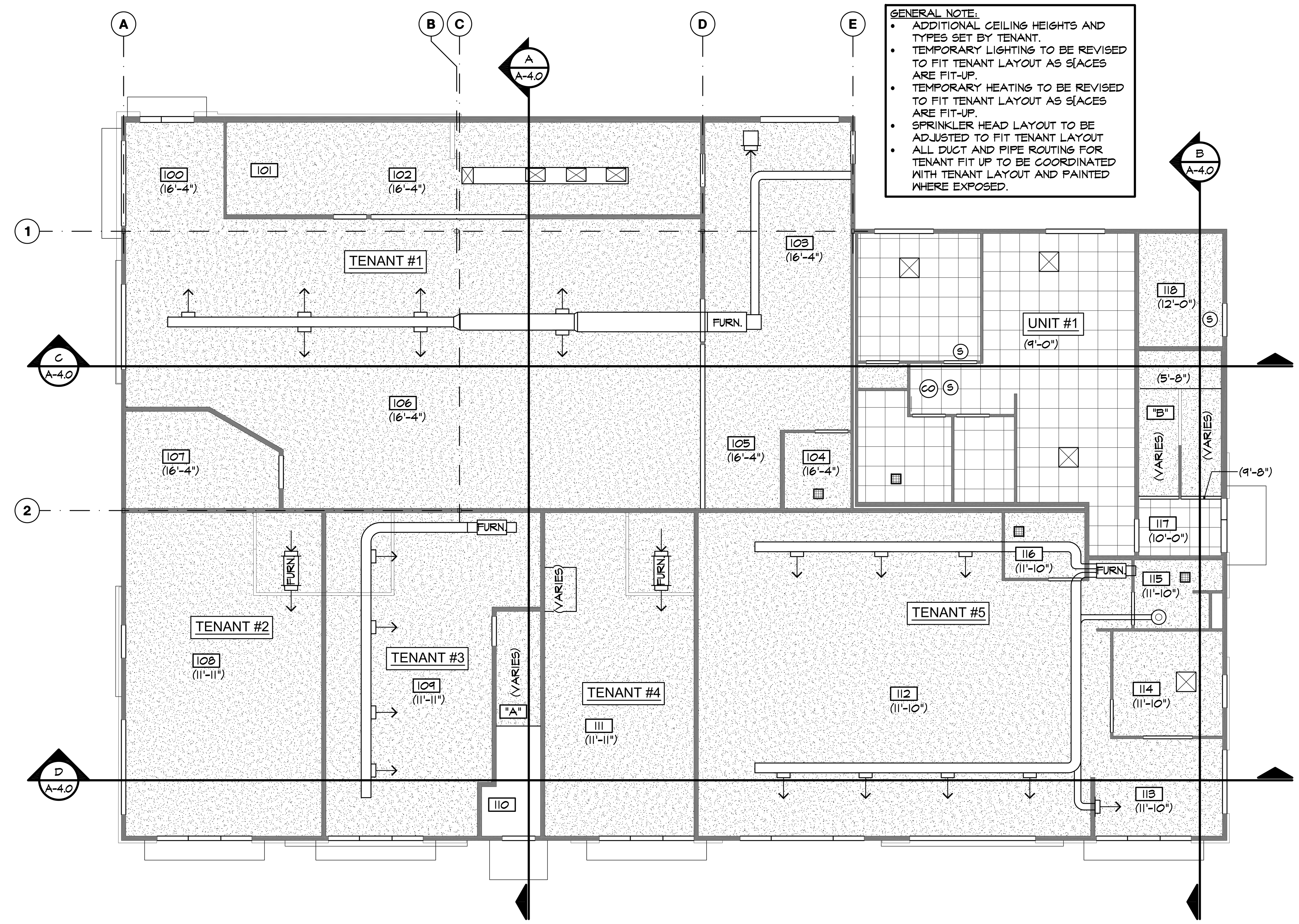
ANTHONY J. STOLL
DATE: 10-01-21 REGISTRATION NO. 22296

FILE NAME: 2143_A2.2.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: LJF, ALG
CHECKED BY: AJS
REVISIONS:

SHEET NUMBER:
A-2.2



GENERAL NOTE:

- ADDITIONAL CEILING HEIGHTS AND TYPES SET BY TENANT.
- TEMPORARY LIGHTING TO BE REVISED TO FIT TENANT LAYOUT AS S[ACES ARE FIT-UP.
- TEMPORARY HEATING TO BE REVISED TO FIT TENANT LAYOUT AS S[ACES ARE FIT-UP.
- SPRINKLER HEAD LAYOUT TO BE ADJUSTED TO FIT TENANT LAYOUT
- ALL DUCT AND PIPE ROUTING FOR TENANT FIT UP TO BE COORDINATED WITH TENANT LAYOUT AND PAINTED WHERE EXPOSED.

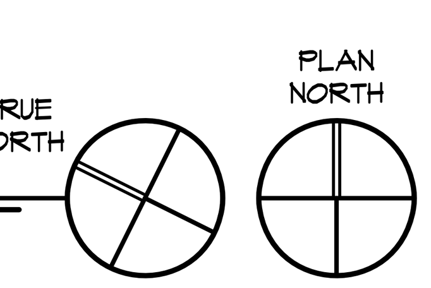
RCP KEY

NOTE:
TYPICAL SYMBOLS NOTED BELOW ARE FOR REFERENCE ONLY AND MAY NOT ALL BE SHOWN IN THE REFLECTED CEILING PLAN.

Symbol	Description
	ACOUSTICAL GRID CEILING (ACT-1)
	GYP. BD. CEILING
(X'-X")	DENOTES DROPPED CEILING HEIGHT
	SUPPLY AIR GRILLE (SEE MECH.)
	RETURN AIR GRILLE (SEE MECH.)
	EXPOSED DUCTWORK (SEE MECH.)
	EXHAUST FAN (SEE MECH.)
CO	CARBON MONOXIDE DETECTOR
S	SMOKE DETECTOR

PROPOSED MAIN LEVEL RCP

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



FILE NAME: 2143_A2.3.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: KCG, CCD
CHECKED BY: AJS
REVISIONS:

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ANTHONY J. STOLL

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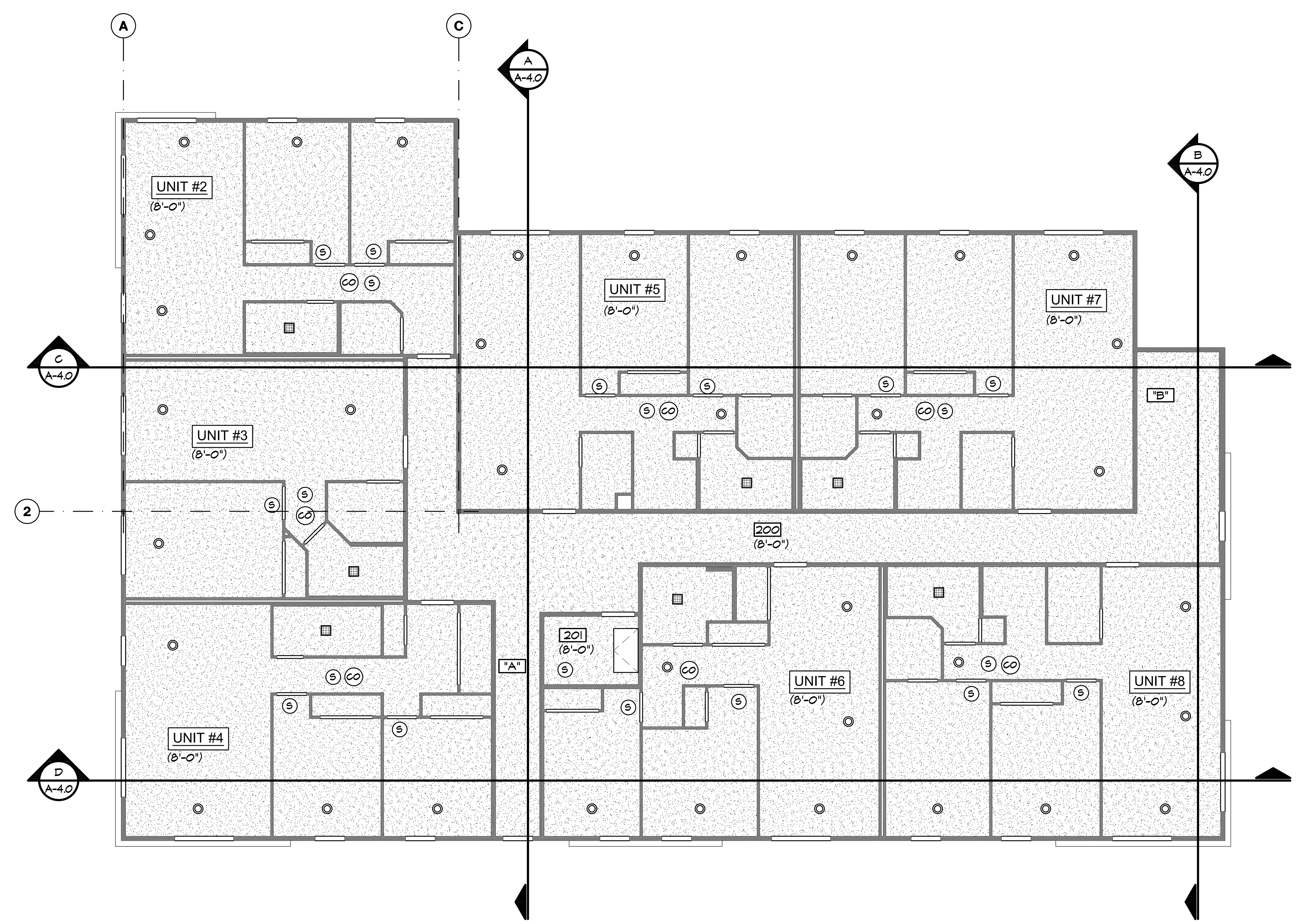
S & Z BUILDING

VERGAS, MINNESOTA

SHEET NUMBER:

A-2.3



PROPOSED UPPER LEVEL RCP

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

TRUE NORTH

PLAN NORTH

FILE NAME: 2143_A2.4.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: KCG, ALG
CHECKED BY: AJS
REVISIONS:

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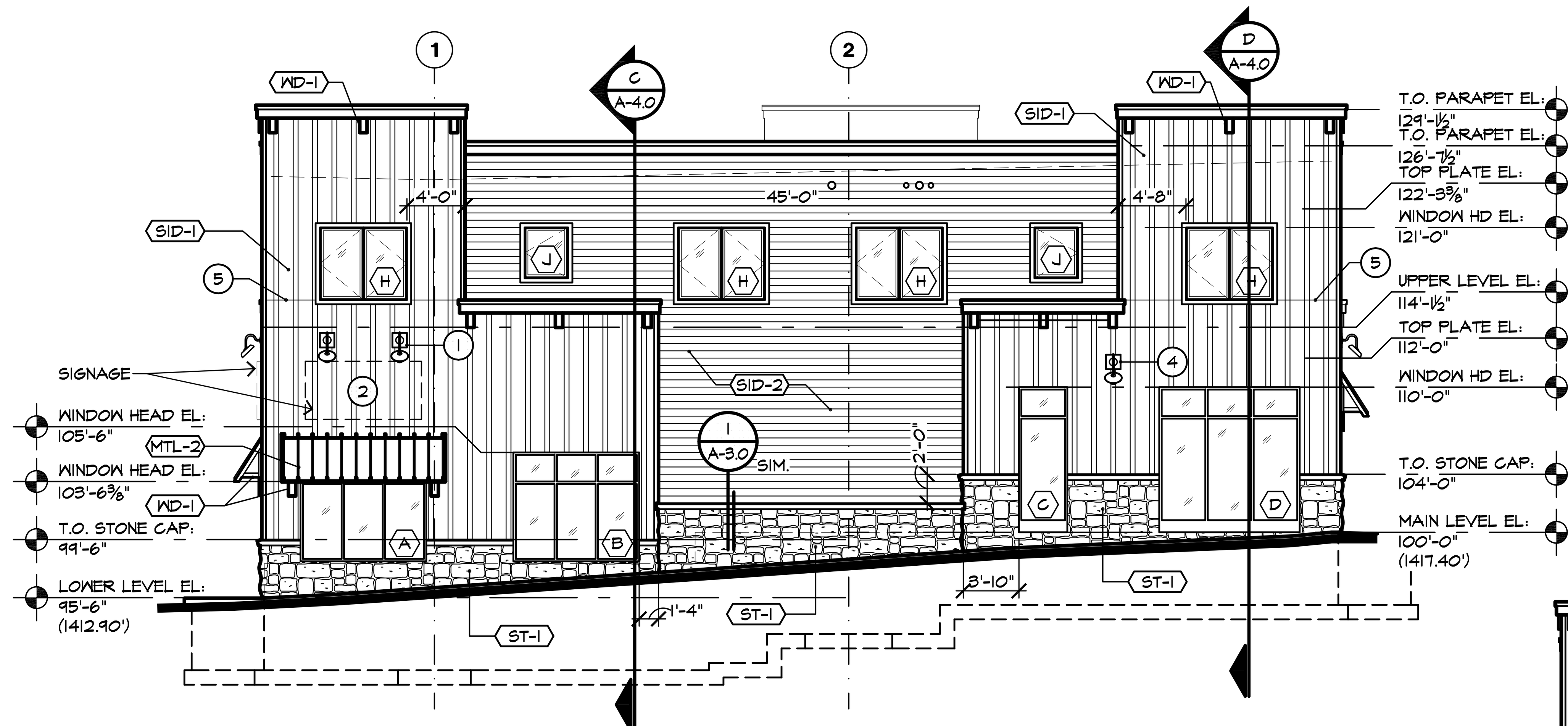
S & Z BUILDING

VERGAS, MINNESOTA

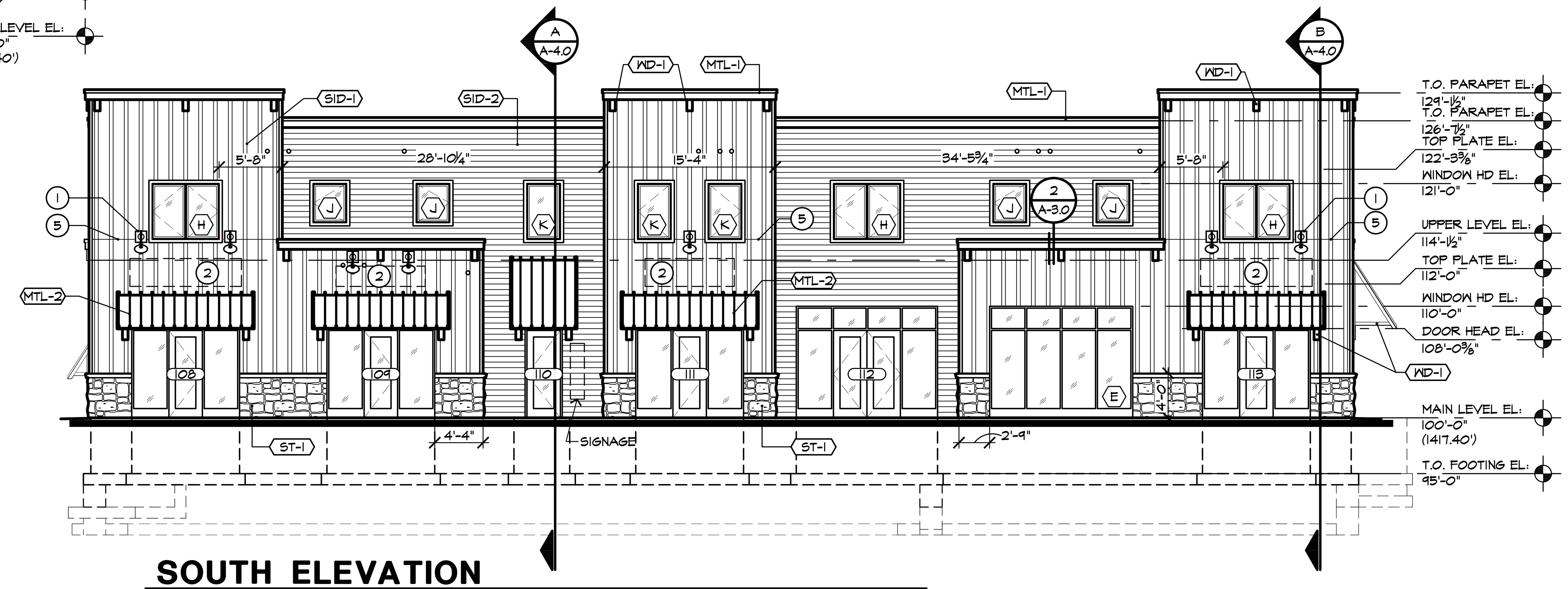
SHEET NUMBER:

A-2.4



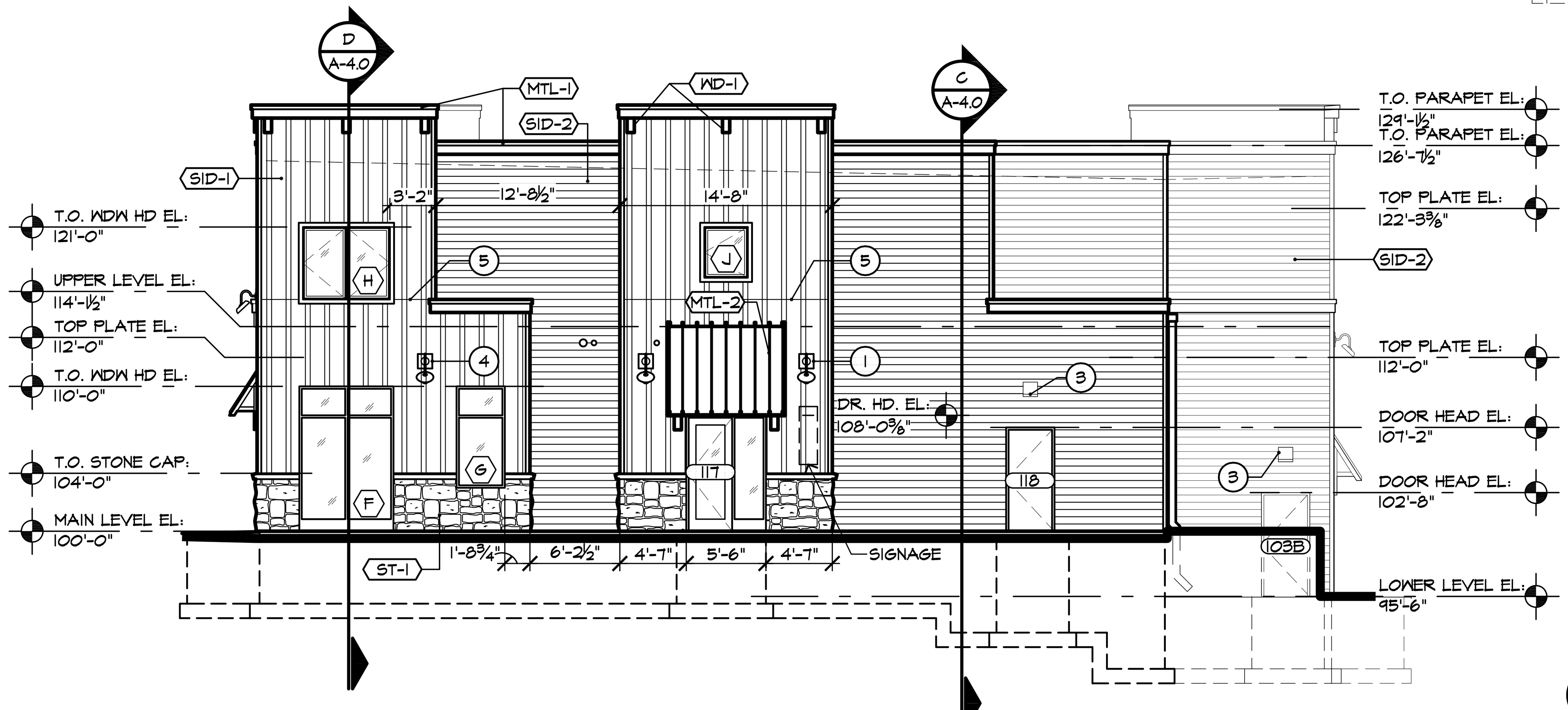
WEST ELEVATION

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



SOUTH ELEVATION

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



EAST ELEVATION

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

EXTERIOR FINISHES LEGEND

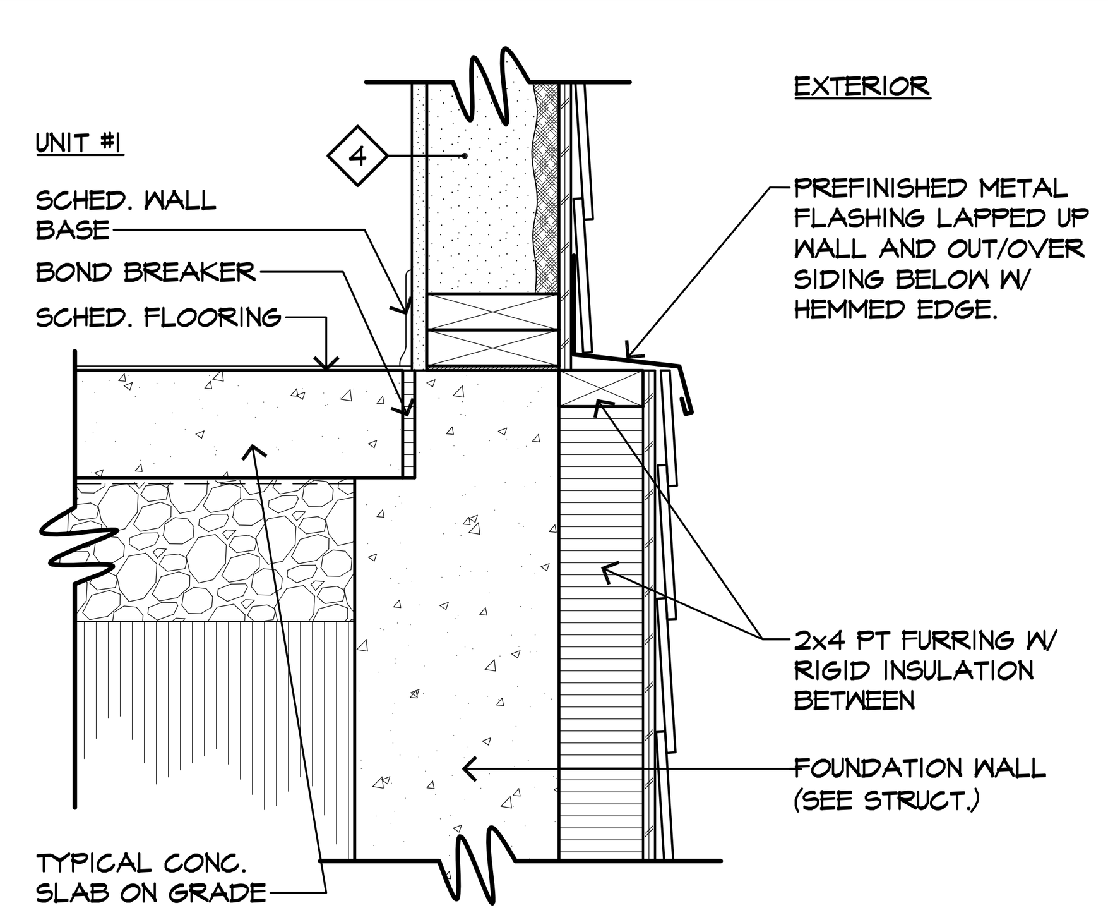
GENERAL NOTES:
1. ALL WINDOW/DOOR FRAMING SYSTEMS SHALL BE "BLACK" IN COLOR.
2. PROVIDE SOLID BLOCKING WITHIN WALL FOR ALL WALL MOUNTED SIGNAGE ALONG WITH PROVISIONS FOR POWER.

Tag	Description
MTL-1	PREFINISHED METAL PARAPET CAP/FLASHING: UNACLAD "MATTE BLACK"
MTL-2	PREFINISHED METAL ROOFING PANEL: UNACLAD "MATTE BLACK"
SID-1	LP SMARTSIDE BOARD & BATTEN: "ELKHORN"
SID-2	LP SMARTSIDE HORIZONTAL: "CANYON"
ST-1	VERSETTA STONE LEDGESTONE VENEER: "STERLING" WITH "CHARCOAL" CAP
WD-1	PAINTED WOOD ACCENT TIMBER/BRACKET: "BLACK"

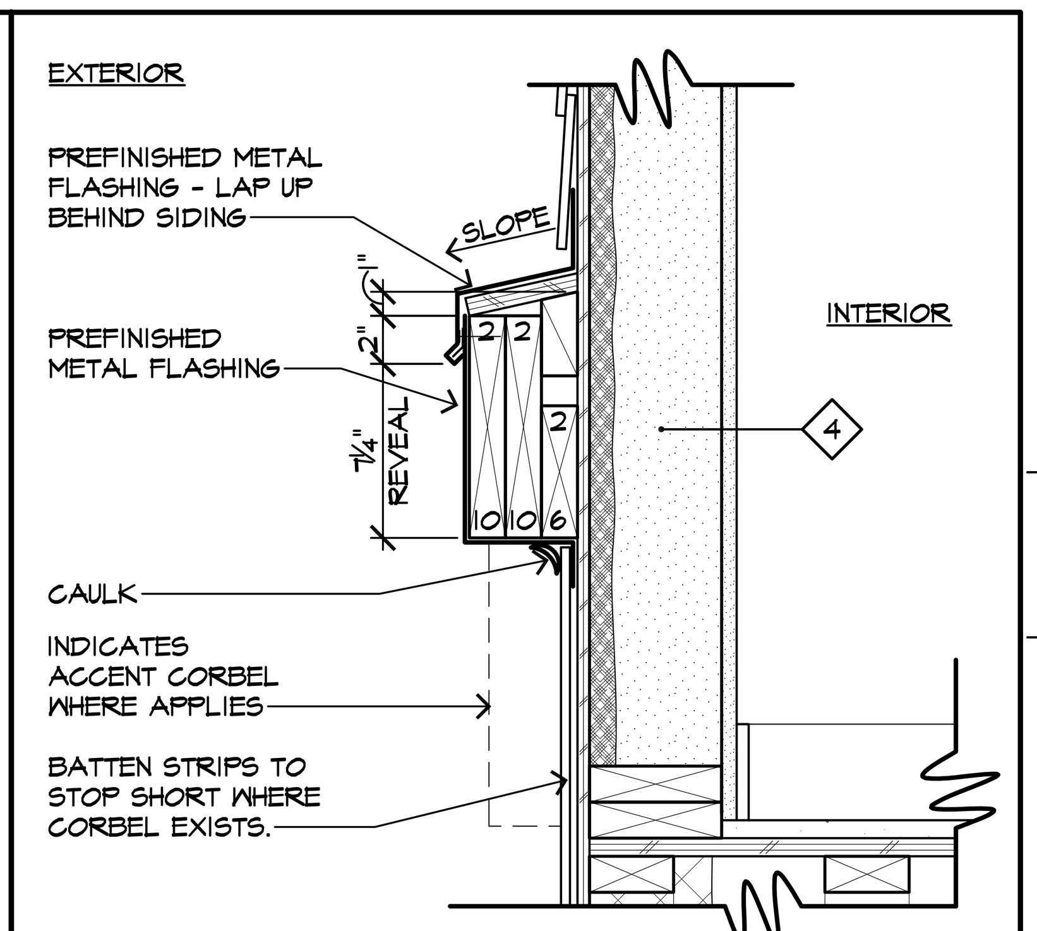
CONSTRUCTION NOTES

GENERAL NOTE:
ALL VISIBLE/EXPOSED VENT PIPING TO BE PAINTED TO BEST MATCH ADJACENT SURFACE. COORDINATE ALL LOCATIONS TO AVOID LIGHTS, AWNINGS, SIGNAGE, ETC.

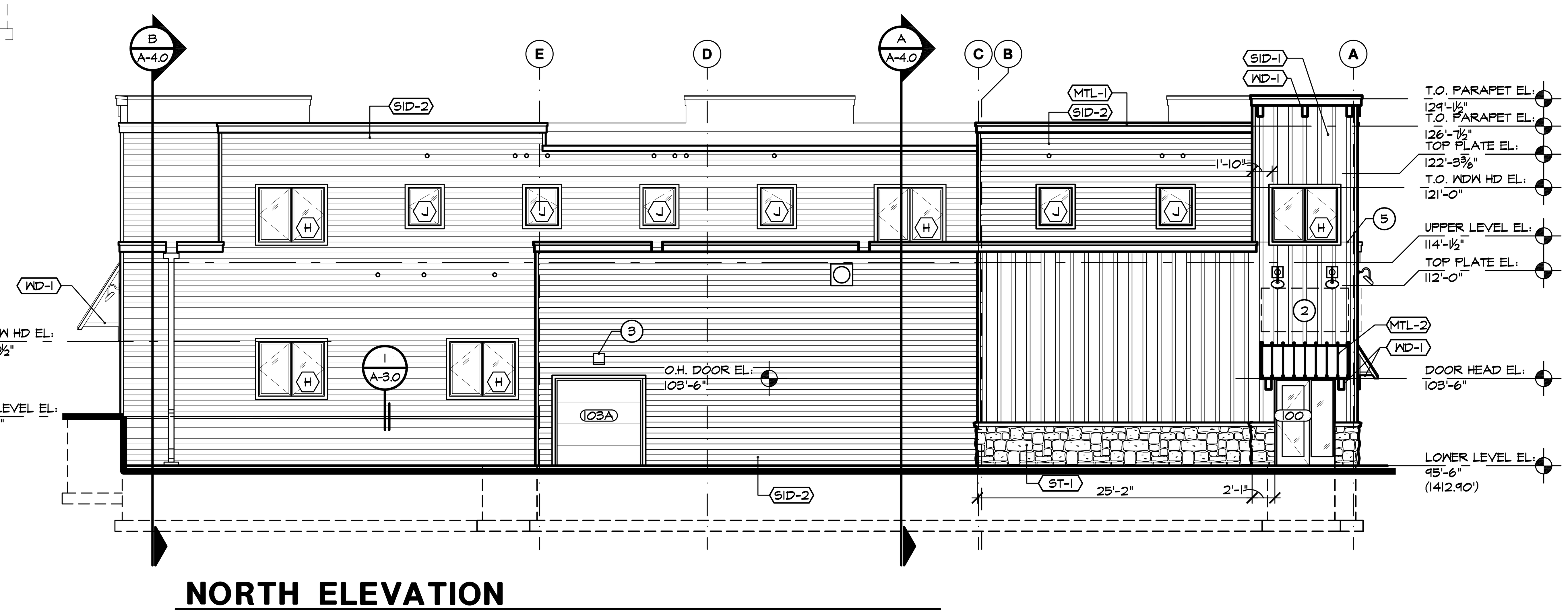
1. INDICATES DECORATIVE DOWNLIGHT WALL FIXTURE TO ILLUMINATE WALL SIGNAGE BELOW ABOVE TENANT ENTRY.
2. INDICATES WALL HUNG SIGNAGE PROVIDED BY TENANT. CONTRACTOR SHALL PROVIDE SOLID WOOD BACKING WITHIN A 10' W. x 3' H. AREA TO ACCOMMODATE.
3. INDICATES WALL PACK LIGHT FOR BUILDING SECURITY.
4. INDICATES DECORATIVE DOWNLIGHT TO PROVIDE SIDEWALK ILLUMINATION BELOW FOR SECURITY/SAFETY.
5. BREAK METAL SEAM AT BOARD & BATTEN.



1/A-3.0 WALL BASE DETAIL
SCALE : 1-1/2" = 1'-0"



2/A-3.0 ACCENT DETAIL
SCALE : 1-1/2" = 1'-0"



NORTH ELEVATION

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

FILE NAME:	2143_A3.0.DWG
JOB NO:	42143
DATE:	10/01/21
DRAWN BY:	LJF, ALG
CHECKED BY:	AJS
REVISIONS:	

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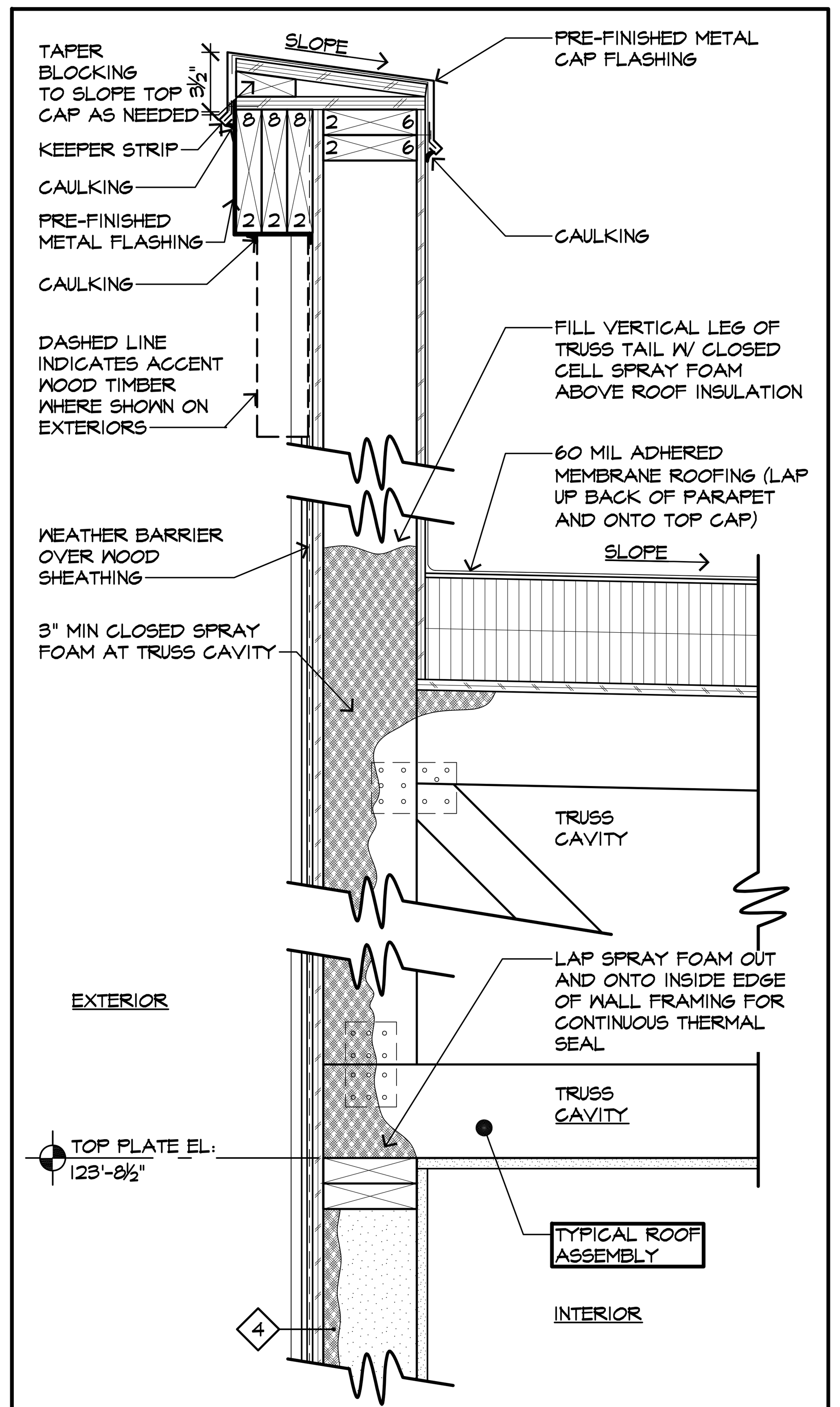
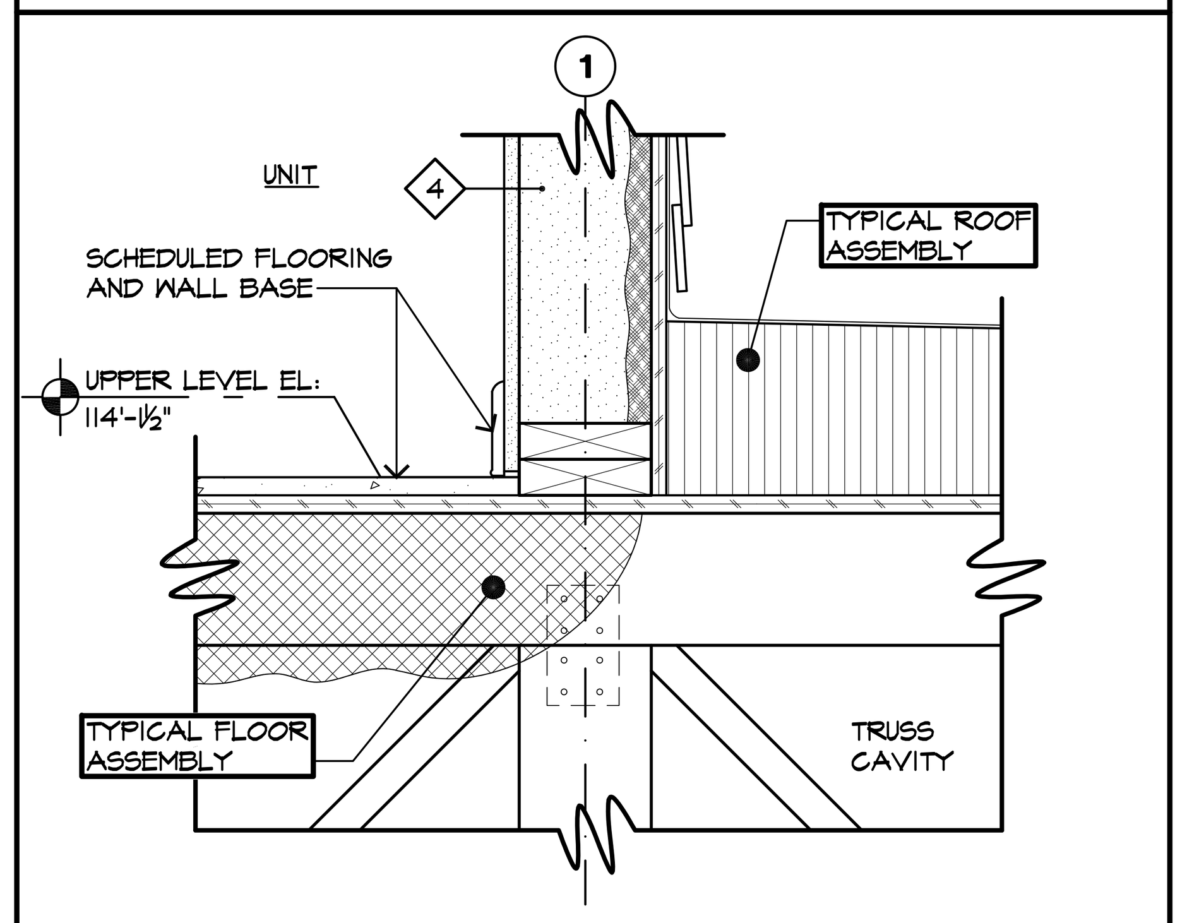
S & Z BUILDING

VERGAS, MINNESOTA

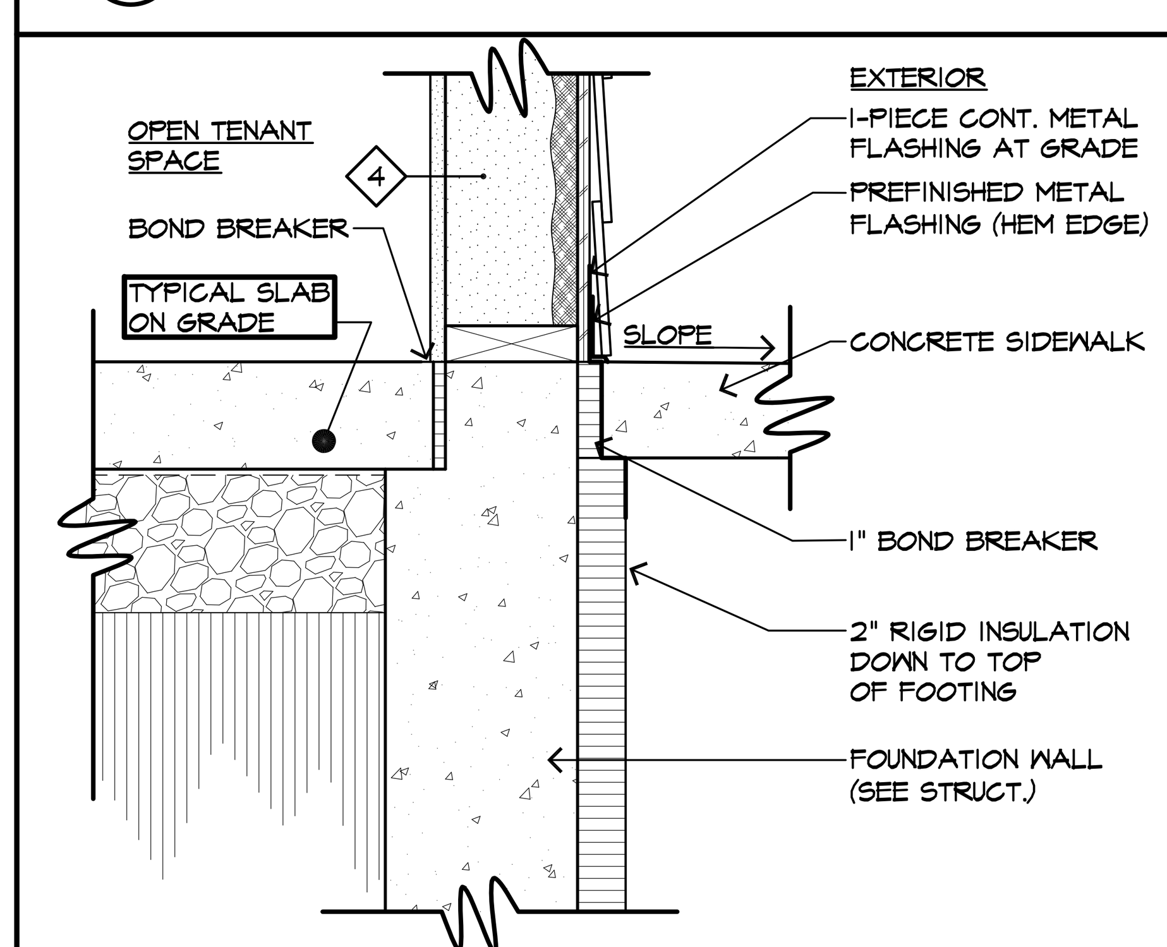
SHEET NUMBER:
A-3.0



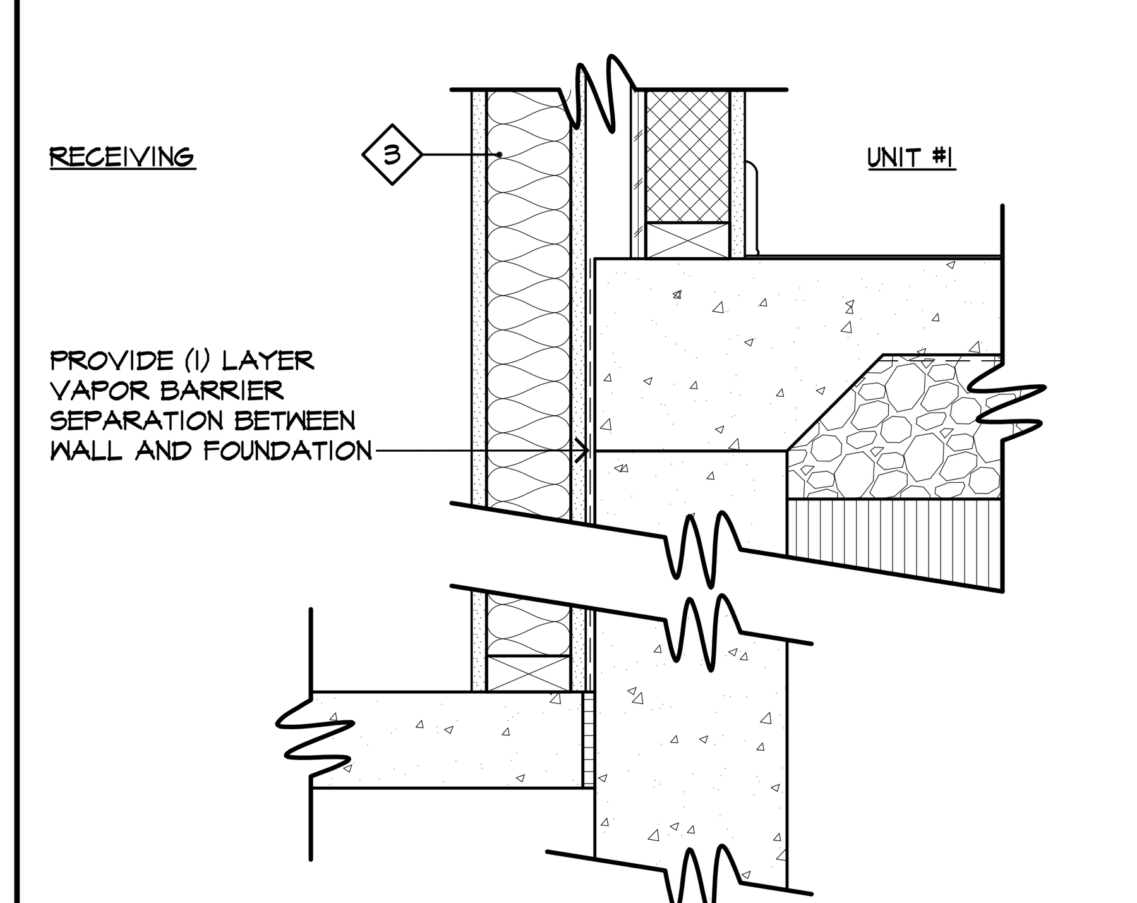
1 A-4.0 PARAPET DETAIL
SCALE : 1-1/2" = 1'-0"



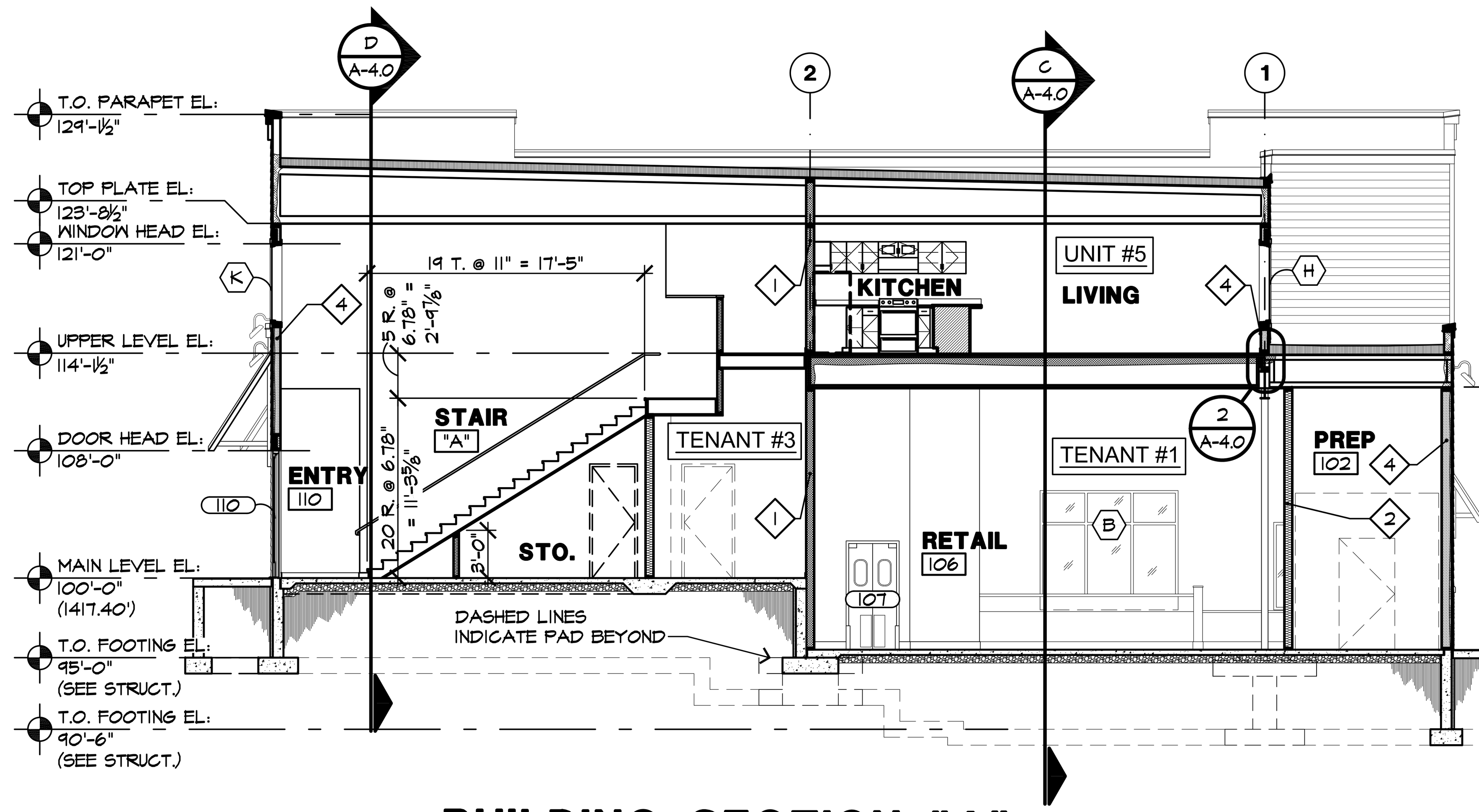
2 A-4.0 CONNECTION DETAIL
SCALE : 1-1/2" = 1'-0"



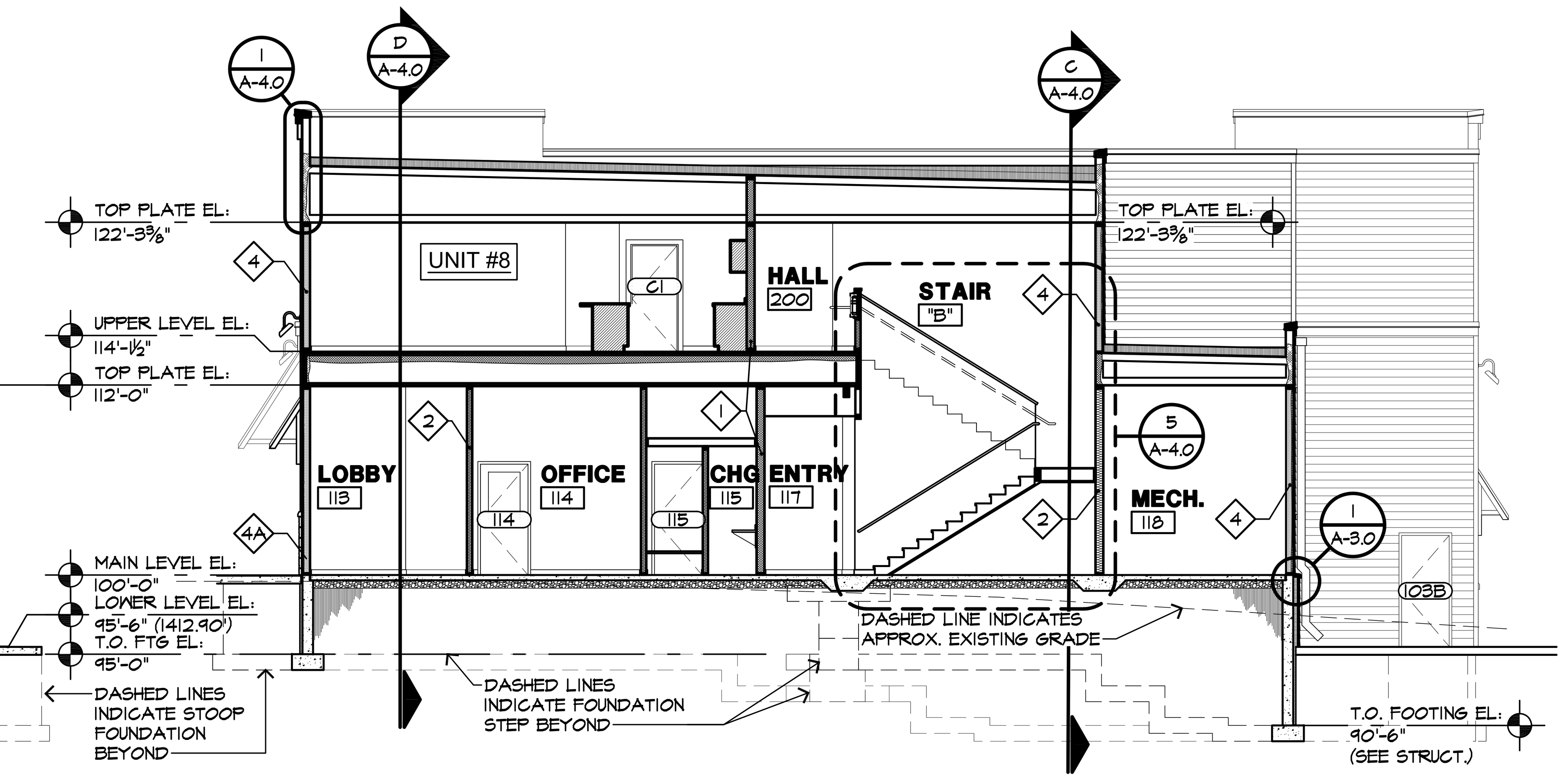
3 A-4.0 TYPICAL WALL BASE DETAIL
SCALE : 1-1/2" = 1'-0"



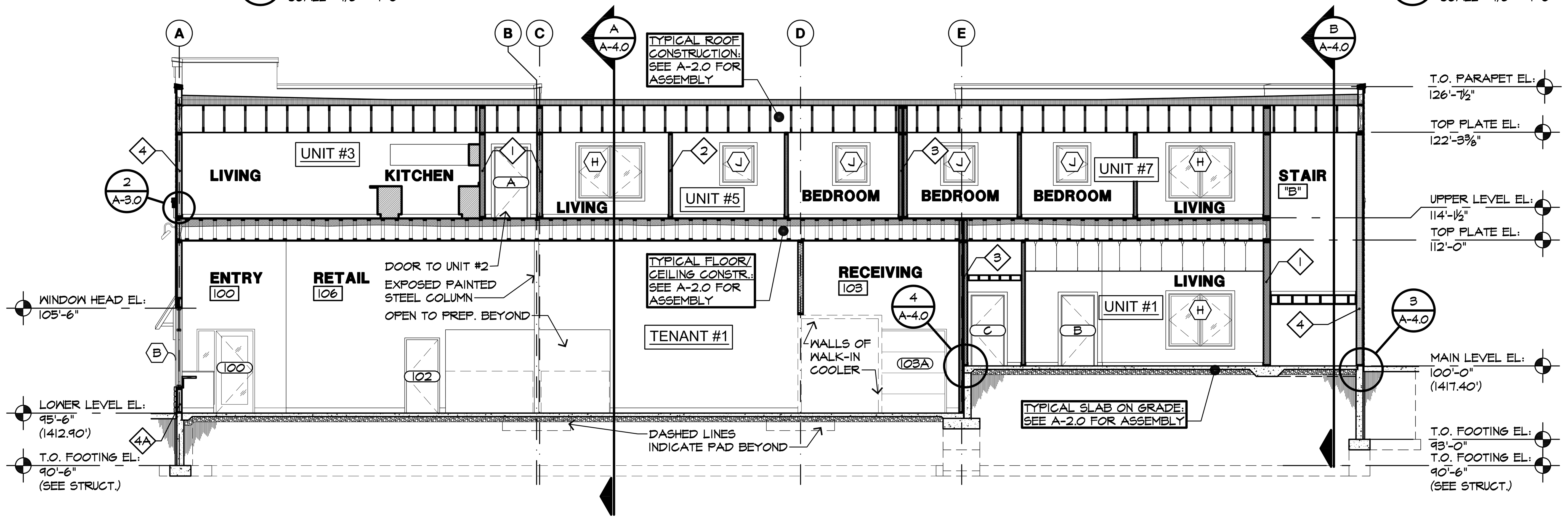
4 A-4.0 PARTY WALL DETAIL
SCALE : 1-1/2" = 1'-0"



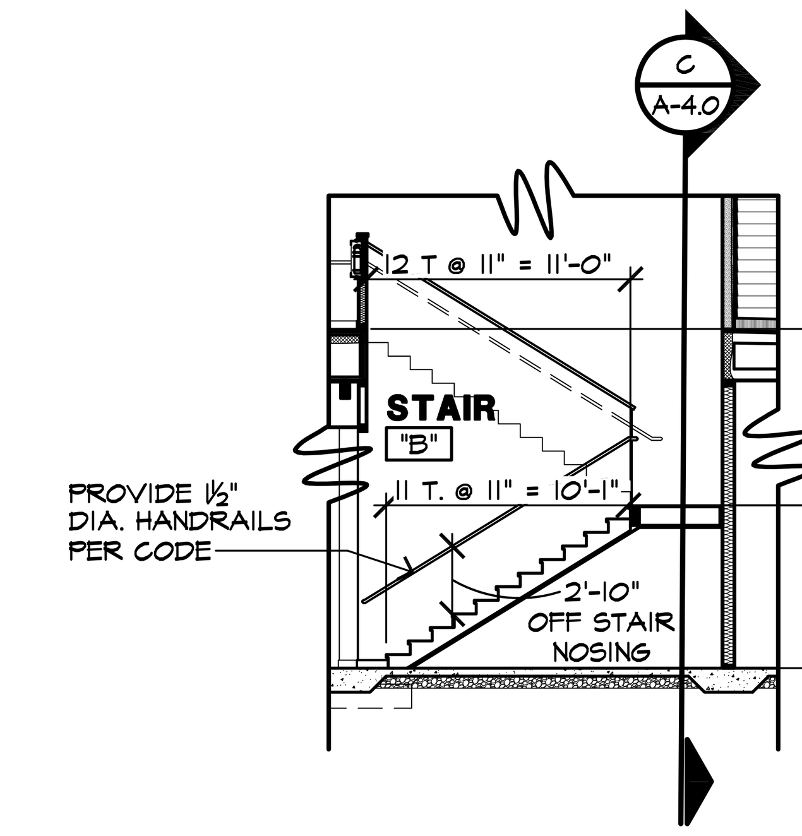
A A-4.0 BUILDING SECTION "A"
SCALE - 1/8" = 1'-0"



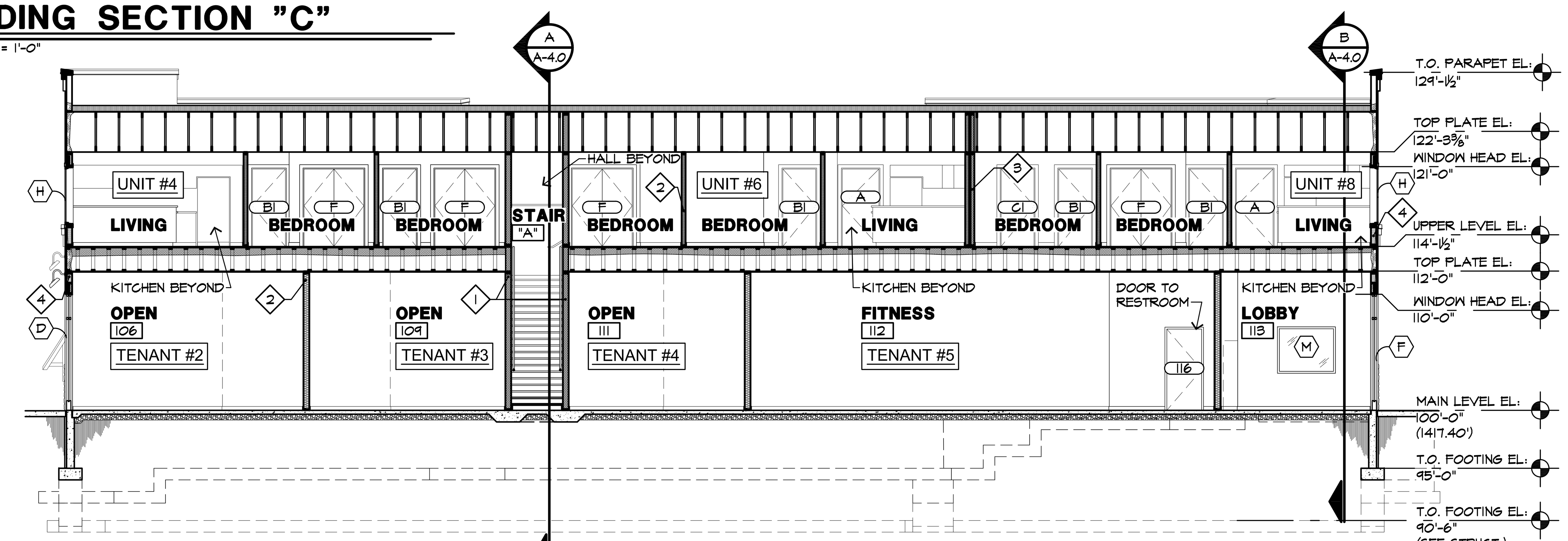
B A-4.0 BUILDING SECTION "B"
SCALE - 1/8" = 1'-0"



C A-4.0 BUILDING SECTION "C"
SCALE - 1/8" = 1'-0"



5 A-4.0 STAIR SECTION
SCALE - 1/8" = 1'-0"



D A-4.0 BUILDING SECTION "D"
SCALE - 1/8" = 1'-0"

FILE NAME: 2143_A4.0.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: ALG, LJF
CHECKED BY: AJS
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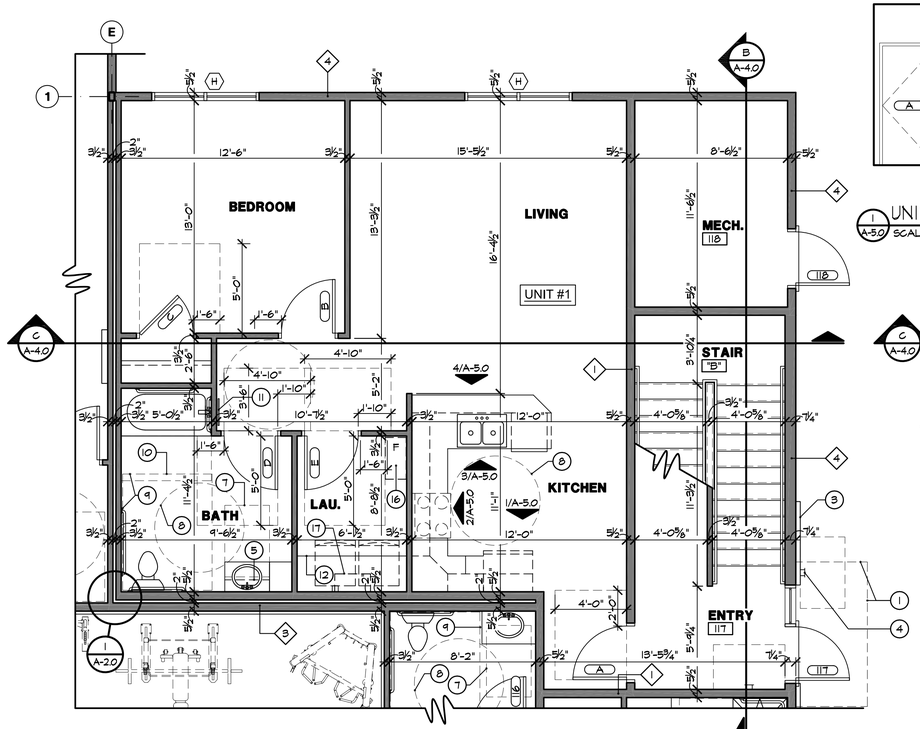
ANTHONY J. STOLL

DATE: 10-01-21 REGISTRATION NO. 22296

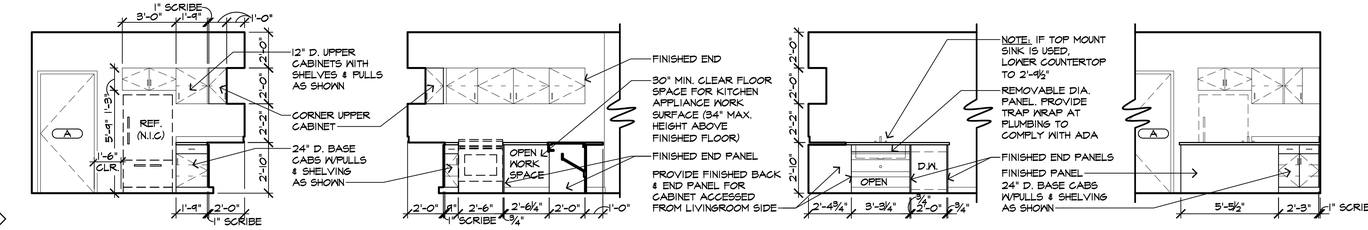
bhh partners
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING
VERGAS, MINNESOTA

SHEET NUMBER:
A-4.0



A A-5.0 **ENLARGED FLOOR PLAN**
SCALE - 1/4" = 1'-0"

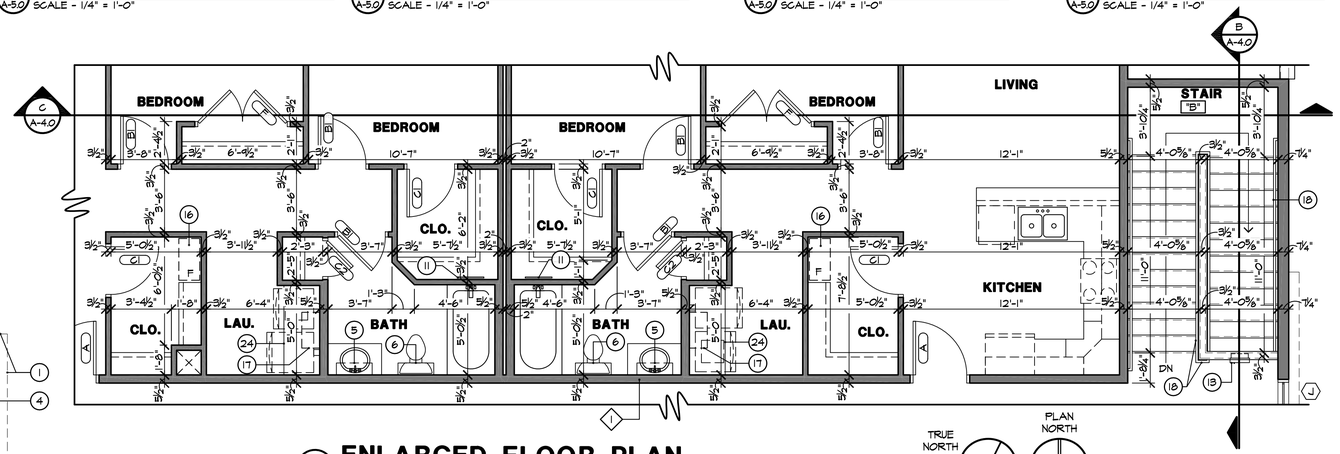


1 A-5.0 UNIT #1 ACCESSIBLE KITCHEN
SCALE - 1/4" = 1'-0"

2 A-5.0 UNIT #1 ACCESSIBLE KITCHEN
SCALE - 1/4" = 1'-0"

3 A-5.0 UNIT #1 ACC. KITCHEN
SCALE - 1/4" = 1'-0"

4 A-5.0 UNIT #1 ACC. KITCHEN
SCALE - 1/4" = 1'-0"

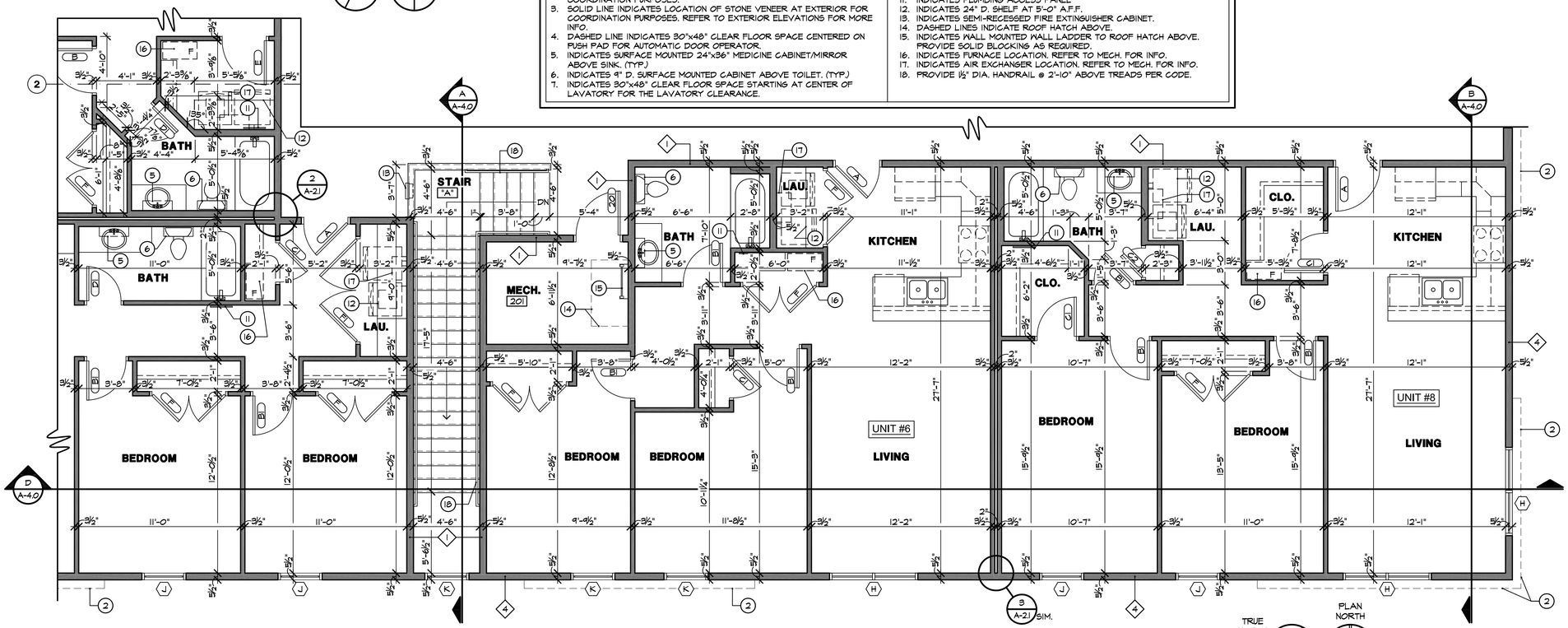


B A-5.0 **ENLARGED FLOOR PLAN**
SCALE - 1/4" = 1'-0"

TRUE NORTH / PLAN NORTH

CONSTRUCTION NOTES

1. DASHED LINES INDICATE COVERED SUNSHADE/ROOF ELEMENT ABOVE. SEE EXTERIOR ELEVATIONS FOR MORE INFO.
2. DASHED LINES INDICATE PRESENCE OF ACCENT FEATURE/SIDING CHANGE AT EXTERIOR ELEVATIONS. SHOWN ON PLAN FOR COORDINATION PURPOSES.
3. SOLID LINE INDICATES LOCATION OF STONE VENEER AT EXTERIOR FOR COORDINATION PURPOSES. REFER TO EXTERIOR ELEVATIONS FOR MORE INFO.
4. DASHED LINE INDICATES 30"x48" CLEAR FLOOR SPACE CENTERED ON PUSH PAD FOR AUTOMATIC DOOR OPERATOR.
5. INDICATES SURFACE MOUNTED 24"x36" MEDICINE CABINET/MIRROR ABOVE SINK. (TYP.)
6. INDICATES 9" D. SURFACE MOUNTED CABINET ABOVE TOILET. (TYP.)
7. INDICATES 30"x48" CLEAR FLOOR SPACE STARTING AT CENTER OF LAVATORY FOR THE LAVATORY CLEARANCE.
8. DASHED LINE INDICATES 60" TURNING RADIUS.
9. INDICATES 60"x78" CLEAR FLOOR SPACE.
10. PROVIDE LENGTH OF TUB x 30" D. CLEAR FLOOR SPACE IN FRONT OF TUB.
11. INDICATES PLUMBING ACCESS PANEL.
12. INDICATES 24" D. SHELF AT 5'-0" A.F.F.
13. INDICATES SEMI-RECESSED FIRE EXTINGUISHER CABINET.
14. DASHED LINES INDICATE ROOF HATCH ABOVE.
15. INDICATES WALL MOUNTED WALL LADDER TO ROOF HATCH ABOVE. PROVIDE SOLID BLOCKING AS REQUIRED.
16. INDICATES FURNACE LOCATION. REFER TO MECH. FOR INFO.
17. INDICATES AIR EXCHANGER LOCATION. REFER TO MECH. FOR INFO.
18. PROVIDE 1½" DIA. HANDRAIL @ 2'-10" ABOVE TREADS PER CODE.



C A-5.0 **ENLARGED FLOOR PLAN**
SCALE - 1/4" = 1'-0"

TRUE NORTH / PLAN NORTH

FILE NAME: 2143_A5.0.DWG
JOB NO: 42145
DATE: 10/01/21
DRAWN BY: ALS
CHECKED BY: AJS
REVISIONS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 10/01/21 REGISTRATION NO. 22236
ANTHONY J. STOLL

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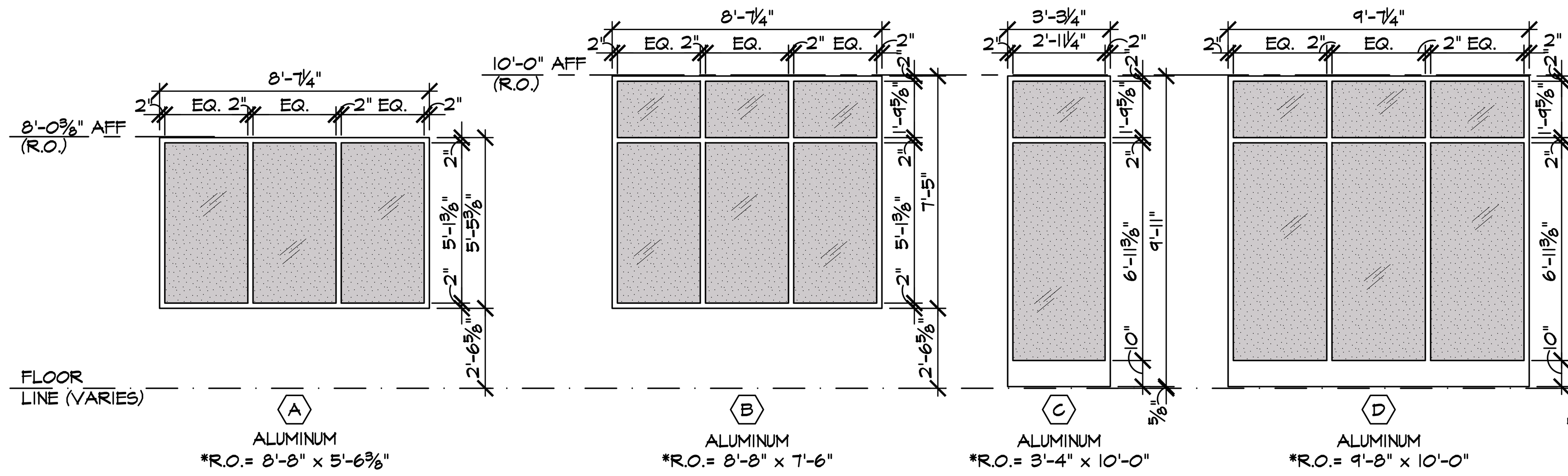
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

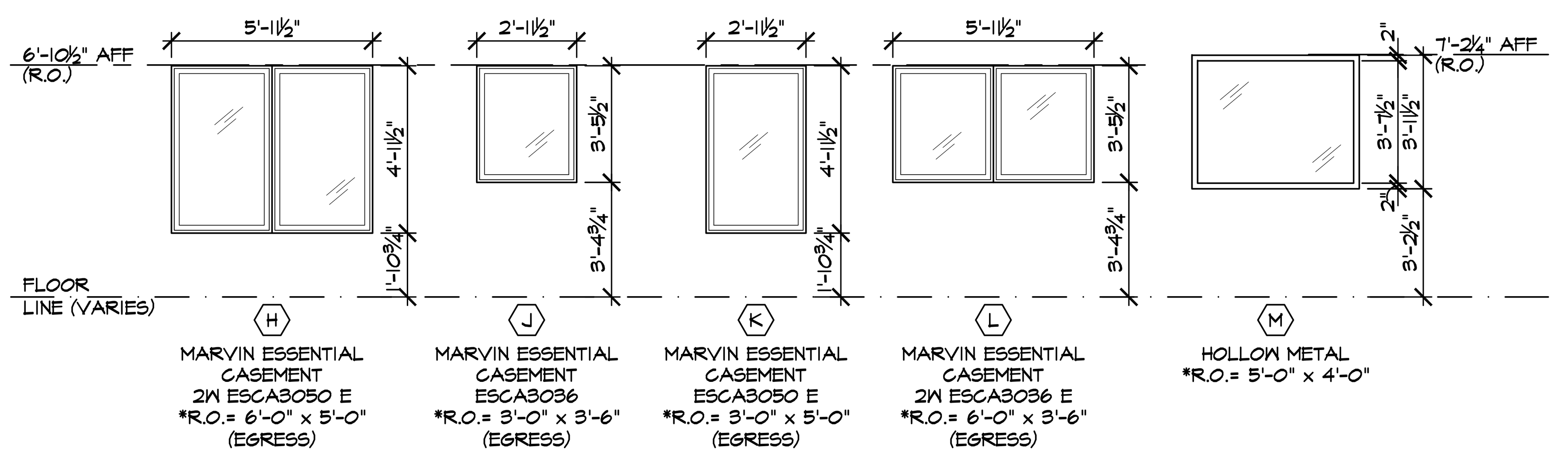
S & Z BUILDING
VERGAS, MINNESOTA

SHEET NUMBER:
A-5.0



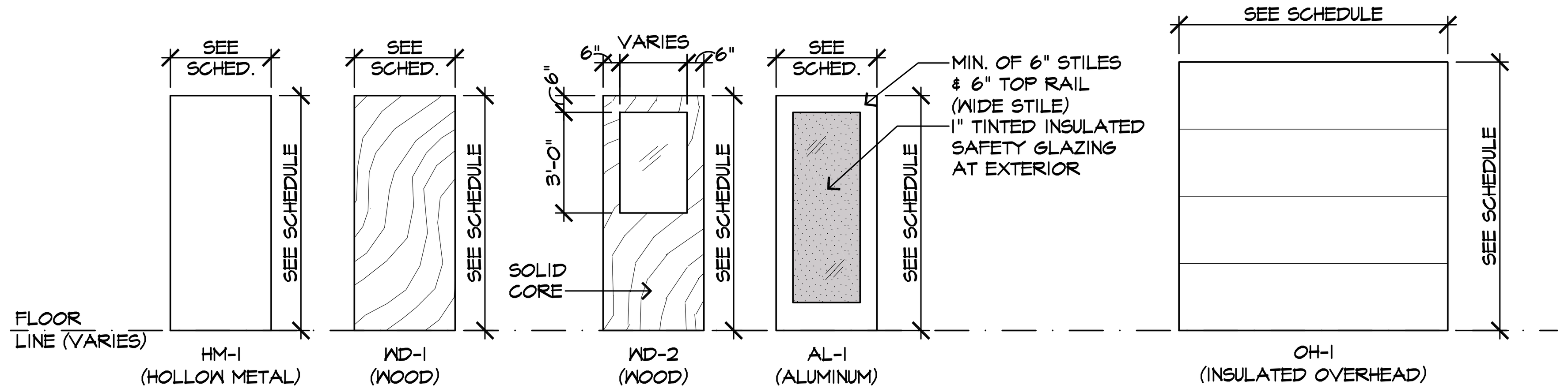
ALUMINUM STOREFRONT ELEVATIONS

SCALE - 1/4" = 1'-0"



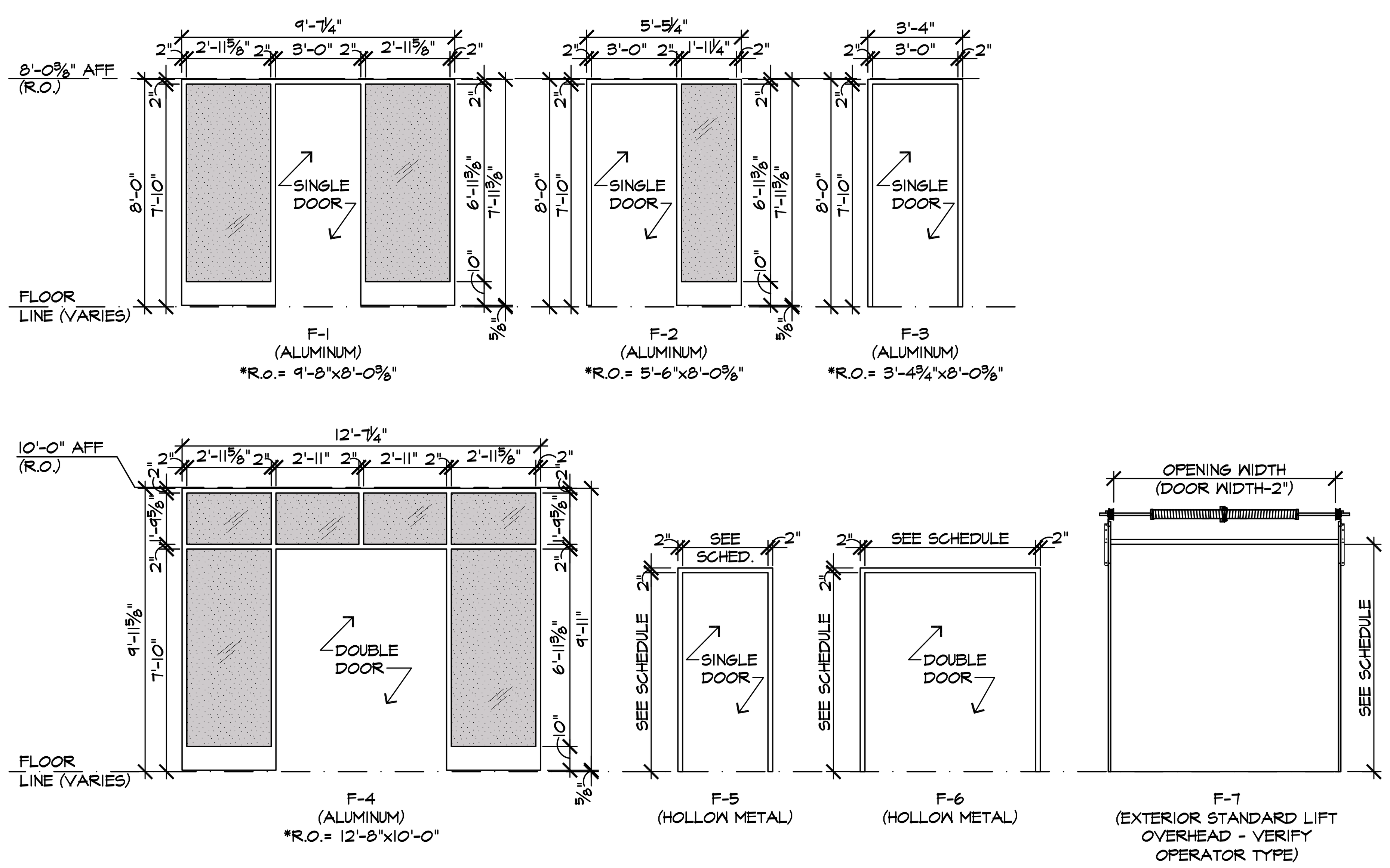
WINDOW ELEVATIONS

SCALE - 1/4" = 1'-0"



DOOR TYPES

SCALE - 1/4" = 1'-0"



FRAME TYPES

SCALE - 1/4" = 1'-0"

NOTES:
- DIMENSIONS ARE TO FRAME SIZE U.N.O.
- ALLOW ⅜" SHIM SPACE @ JAMBS & HEAD AT EXTERIOR ALUM. WINDOWS. ALLOW ⅝" SPACE @ SILL FOR SHIM & RECEPTOR. R.O. TO BE CONFIRMED WITH WINDOW VENDOR SELECTED FOR PROJECT.
- ALL EXTERIOR ALUMINUM STOREFRONT WINDOWS & EXTERIOR STOREFRONT DOORS TO BE THERMALLY BROKEN.

NOTE: SAFETY GLAZING SHALL BE PROVIDED AT ALL LOCATIONS REQ'D PER CODE, IDENTIFIED WITH THE FOLLOWING:

MANUFACTURER SHALL REVIEW AND ADJUST AS NEEDED.

DOOR/WINDOW NOTES

- INSULATED DUAL GLAZED LOW E GLASS AT ALL EXTERIOR WINDOWS AND DOORS.
- PRIOR TO ANY FRAMING WORK, VERIFY ROUGH OPENING DIMENSIONS WITH WINDOW MANUFACTURER. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- VERIFY JAMB WIDTHS AND WALL THICKNESS PRIOR TO ORDERING AND INSTALLATION OF UNITS.
- PROVIDE SAFETY GLASS TO COMPLY WITH CODE REQUIREMENTS (DETERMINED BY WINDOW/DOOR SUPPLIER).
- INSULATE ALL EXTERIOR SHIM SPACES AT DOORS & WINDOWS W/ MIN. EXPANDING SPRAY FOAM.
- WRAP ALL NEW EXTERIOR OPEN SILLS WITH TYVEK FLEX WRAP. PROVIDE TYVEK STRAIGHT FLASHING AT ALL EXTERIOR OPENINGS PER MFGR'S REQ'S.
- PROVIDE HORIZONTAL BLINDS AT ALL UNIT WINDOWS.
- WINDOWS, DOORS AND DOOR HARDWARE WITH ACCESSIBLE AND ADAPTABLE UNITS SHALL MEET WITH ADA REQUIREMENTS OF SECTION 309 & 404.
- PROVIDE SCREENS WITH ALL OPERABLE UNITS. ENSURE UPPER LEVEL UNITS COMPLY WITH ASTM F2090 AND SECTION 1029.2 AND 1013.8.

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR	BASE	CEILING		WALLS				REMARKS
				MTL.	HT.	NORTH	SOUTH	EAST	WEST	
100	ENTRY	CONC	-	GYP	16'-4¾"	PT	-	PT	PT	1, 2
101	MEAT W.I.C.	CONC	-	GYP	16'-4¾"	PT	PT	-	PT	3, 5
102	PREP	CONC	-	GYP	16'-4¾"	PT	PT	PT	-	2, 4
103	RECEIVING	CONC	VB	GYP	16'-4¾"	PT	PT	PT	PT	-
104	RESTROOM	CONC	-	GYP	16'-4¾"	EPT	EPT	EPT	EPT	2
105	W.I.C.	CONC	-	GYP	16'-4¾"	-	PT	PT	-	3, 5
106	RETAIL	CONC	-	GYP	16'-4¾"	PT	PT	PT	PT	1, 2
107	PREP	CONC	-	GYP	16'-4¾"	PT	PT	PT	PT	1, 2
108	OPEN	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 6
109	SALON	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 6
110	ENTRY	VINYL	WD	GYP	11'-10¾"	PT	PT	PT	PT	-
111	OPEN	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 6
	STAIR "A"	VINYL	WD	-	-	-	-	PT	PT	7
112	FITNESS	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 8
113	LOBBY	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 9
114	OFFICE	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 10
115	CHANGING	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 6, 11
116	RESTROOM	CONC	-	GYP	11'-10¾"	PT	PT	PT	PT	1, 2, 6, 11
117	ENTRY	VINYL	WD	GYP	11'-10¾"	PT	PT	PT	PT	-
	STAIR "B"	VINYL	WD	-	-	PT	-	PT	PT	7
118	MECHANICAL	CONC	VB	GYP	11'-10¾"	PT	PT	PT	PT	-
200	HALL	VINYL	WD	GYP	8'-1¼"	PT	PT	PT	PT	12
201	MECHANICAL	CONC	VB	GYP	8'-1¼"	PT	PT	PT	PT	-
TYPICAL UNITS:										
	KITCHEN	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2	-
	LIVING	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2	-
	CLOSET	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2	-
	BATHROOM	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2	-
	BEDROOM	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2	-
	LAUNDRY	VINYL	WD	GYP-2	8'-1¼"	PT-2	PT-2	PT-2	PT-2 -	-

ABBREVIATIONS:
CONC = SEALED CONCRETE
EPT = EPOXY PAINTED GYPSUM BOARD, WASHABLE.
GYP = GYPSUM BOARD (PAINT), SMOOTH FINISH
GYP-2 = GYPSUM BOARD (PAINT), KNOCK DOWN FINISH
PT = PAINTED GYPSUM BOARD, SMOOTH LEVEL 4 FINISH
PT-2 = PAINTED GYPSUM BOARD, ORANGE PEEL FINISH
VB = VINYL BASE
VINYL = LUXURY VINYL PLANK FLOORING
WD = WOOD BASE

REMARKS (SEE SCHEDULE ABOVE):
1. ADDITIONAL FLOOR FINISHES BY TENANT.
2. TENANT TO PROVIDE SUSPENDED GRID CEILINGS WHERE NECESSARY.
3. PROVIDE MOISTURE RESISTANT GYP. BD. AT WALLS ADJACENT TO WALK IN COOLER.
4. ASSUME QUARRY TILE BASE AND FLOOR BY TENANT.
5. COOLER SET ON SLAB WITHIN FINISHED SPACE, MAINTAINING A MINIMUM OF 2" AIR GAP.
6. COORDINATE MOISTURE GYP. BD. OR TILE BACKER WITH TENANT FINISHES AT RESTROOM AREA OR WET AREAS.
7. PROVIDE NOSING AND RISER EDGES AT STAIR.
8. ASSUME FITNESS FLOORING SUCH AS MONDO SPORT IMPACT.
9. ASSUME WALK-OFF MAT CARPET FLOORING.
10. ASSUME CARPET TILE FLOORING.
11. ASSUME LUXURY VINYL PLANK FLOORING.
12. PROVIDE TRANSITION/REDUCER STRIPS AS REQUIRED.

DOOR SCHEDULE

NO.	DOOR TYPE	FRAME TYPE	WALL WIDTH (FRAMING)	DOOR SIZE WIDTH	HEIGHT	THICK	OPERATION	FIRE LABEL	HDW SET	REMARKS
MAIN LEVEL										
100	AL-1	F-2	7¼"	3'-0"	7'-10"	1¾"	SWING	0	B	1
102	BY TENANT - SHOWN FOR INTENT ONLY									
102B	BY TENANT - SHOWN FOR INTENT ONLY									
103A	OH-1	F-7	7¼"	8'-0"	8'-0"	3"	OVERHEAD	0	--	--
103B	HM-1	F-5	5½"	3'-0"	7'-0"	1¾"	SWING	0	G	1
103C	BY TENANT - SHOWN FOR INTENT ONLY									
104	HM-1	F-5	3½"	3'-0"	7'-0"	1¾"	SWING	0	D	--
107	BY TENANT - SHOWN FOR INTENT ONLY									
108	AL-1	F-1	5½"	3'-0"	7'-10"	1¾"	SWING	0	B	1
109	AL-1	F-1	5½"	3'-0"	7'-10"	1¾"	SWING	0	B	1
110	AL-1	F-3	5½"	3'-0"	7'-10"	1¾"	SWING	0	A	2, 5
111	AL-1	F-1	5½"	3'-0"	7'-10"	1¾"	SWING	0	B	1
112	AL-1	F-4	5½"	(2) 3'-0"	7'-10"	1¾"	PAIR SWING	0	F	3
113	AL-1	F-1	5½"	3'-0"	7'-10"	1¾"	SWING	0	B	1
114	WD-2	F-5	3½"	3'-0"	7'-0"	1¾"	SWING	0	D	--
115	WD-1	F-5	3½"	3'-0"	7'-0"	1¾"	SWING	0	D	--
116	WD-1	F-5	3½"	3'-0"	7'-0"	1¾"	SWING	0	D	--
117	AL-1	F-2	7¼"	3'-0"	7'-10"	1¾"	SWING	0	A	4
118	HM-1	F-5	5½"	3'-0"	7'-0"	1¾"	SWING	0	G	--
UPPER LEVEL										
201	HM-1	F-5	5½"	3'-0"	7'-0"	1¾"	SWING	20 MIN.	G	--

GENERAL NOTES:
- WALL WIDTH INDICATES EDGE TO EDGE OF STUD FRAMING. VERIFY ACTUAL FRAME THROAT WIDTHS WITH SPECIFIED WALL FINISHES.
- ALL EXTERIOR DOOR FRAMES TO BE THERMALLY BROKEN.
- SEE SPEC FOR HARDWARE SETS AND DETAILED HARDWARE REQUIREMENTS.

1. MAIN LEVEL UNITS/TENANTS TO COMPLY WITH ADA REQUIREMENTS FOR HARDWARE.
2. CLEAR OPENINGS OF DOORS AND CLEAR FLOOR AREAS MUST MEET ADA CLEARANCES

REMARKS (SEE SCHEDULE ABOVE):
1. PROVIDE ACCESS CONTROL AT EXTERIOR (CARD ACCESS).
2. UNIT INTERCOM SYSTEM LINKED TO ALL UPPER FLOOR UNITS, INCLUDES REMOTE DOOR RELEASE WITH VOICE INTERCOM.
3. NO HARDWARE AT EXTERIOR SIDE OF DOOR - EQUIPMENT ACCESS ONLY.
4. UNIT INTERCOM SYSTEM LINKED TO ALL MAIN LEVEL AND UPPER LEVEL UNITS, INCLUDES REMOTE DOOR RELEASE WITH VOICE INTERCOM.
5. NO HDC DOOR OPERATOR THIS LOCATION.

TYPICAL UNIT DOOR SCHEDULE

NO.	DOOR TYPE	FRAME TYPE	WALL WIDTH (FRAMING)	DOOR SIZE WIDTH	HEIGHT	THICK	LOCATION	OPERATION	FIRE LABEL	HDW SET	REMARKS
A	WD-1	F-5	5½"	3'-0"	6'-8"	1¾"	ENTRANCE	SWING	20 MIN.	C	-
B	WD-1	F-5	3½"	3'-0"	6'-8"	1¾"	BEDROOM	SWING	0	D	-
B1	WD-1	F-5	3½"	2'-8"	6'-8"	1¾"	BEDROOM	SWING	0	D	-
C	WD-1	F-5	3½"	3'-0"	6'-8"	1¾"	CLOSET	SWING	0	E-1	-
C1	WD-1	F-5	3½"	2'-8"	6'-8"	1¾"	CLOSET	SWING	0	E-1	-
C2	WD-1	F-5	3½"	2'-0"	6'-8"	1¾"	CLOSET	SWING	0	E-1	-
D	WD-1	F-5	3½"	3'-0"	6'-8"	1¾"	BATHROOM	SWING	0	D	-
D1	WD-1	F-5	3½"	2'-4"	6'-8"	1¾"	BATHROOM	SWING	0	D	-
E	WD-1	F-5	3½"	3'-0"	6'-8"	1¾"	LAUNDRY	SWING	0	E-1	-
F	WD-1	F-6	3½"	5'-0"	6'-8"	1¾"	CLOSET	PAIR SWING	0	E-2	-
F-1	WD-1	F-6	3½"	7'-0"	6'-8"	1¾"	CLOSET	PAIR SWING	0	E-2	-

HARDWARE GROUPS

SET: A
HARDWARE BY DOOR SUPPLIER IN FINISH TO MATCH
1 PULL HANDLE
1 PANIC HARDWARE
CONTINUOUS HINGES
1 HDC DOOR OPERATOR W/ACTUATOR (OWNER OPTION)
CLOSER
1 ELECTRIC STRIKE
3 SILENCERS
1 KEYED ENTRY (VESTIBULE LOCK)
1 WEATHERSTRIPPING
1 SILL SWEEP (NYLON BRUSH)
1 IC CYLINDER AS REQ'D
1 PERMANENT CORE
INTEGRATION W/ UNIT INTERCOM SYSTEM

SET: B
HARDWARE BY DOOR SUPPLIER IN FINISH TO MATCH
1 PULL HANDLE
1 PANIC HARDWARE
CONTINUOUS HINGES
1 HDC DOOR OPERATOR W/ ACTUATOR (OWNER OPTION)
CLOSER
1 ELECTRIC STRIKE
3 SILENCERS
1 KEYED ENTRY (VESTIBULE LOCK)
1 WEATHERSTRIPPING
1 SILL SWEEP (NYLON BRUSH)
1 IC CYLINDER AS REQ'D
1 PERMANENT CORE
1 THRESHOLD THERMALLY BROKEN (EXTEND ALUM. ONE PIECE W/ RIBBED SURFACE)
ACCESS CONTROL

SET: C (ENTRANCE)

QTY	ITEM	DESCRIPTION	FINISH	MFR
3	HINGES	BY DOOR AND FRAME SUPPLIER	US26D	MK
1	INTERCONNECTED LOCKSET	YR852 PB	626	YR
1	PERMANENT CORE	AS SPECIFIED	626	YA
1	CLOSER	1101BF	689	YA
1	STOP	AS REQUIRED (406/409 OR 10-x36)	630	RF
1	KICK PLATE	K1050-12"x2" LDW 4BE CSK	US32D	RO
1	THRESHOLD	AS REQUIRED*		PE
1	GASKET	S88D		PE
1	DOOR BOTTOM	2173AV		PE
1	SET ACOUSTIC CORNER PADS	ACP112BL/2		PE
1	DOOR VIEWER	622 (2@ ACCESSIBLE ROOMS)	DCRM	RO
1	CHAIN GUARD	1607	626	DJ
1	DOOR WRAP-AROUND		S	DJ
1	DOOR KNOCKER	611	US26D	RO

*NOTE: THE HARDWARE SUPPLIER NEEDS TO DETERMINE AND PROVIDE THE CORRECT THRESHOLD FOR THE FLOOR TYPE(S) AT THE DOOR OPENING.

FUNCTIONS:
- DOOR NORMALLY CLOSED AND LATCH
- LATCHBOLT IS OPERATED BY EITHER LEVER AT ALL TIMES
- DEADBOLT IS OPERATED BY KEY OUTSIDE, INSIDE BY TURN LEVER.
- INSIDE LEVER RETRACTS THE LATCH AND DEADBOLT SIMULTANEOUSLY, ALLOWING FREE EGRESS AT ALL TIMES.

SET: D (BATHROOM) (BEDROOM)

QTY	ITEM	DESCRIPTION	FINISH	MFR
3	HINGES	BY DOOR & FRAME SUPPLIER		
1	PRIVACY LOCKSET	YH21 CS	626	YR
1	STOP	AS REQUIRED (406/409 OR 528 HINGE PIN STOP)		RO
3	SILENCERS	609		RO
1	COAT HOOK	796	US26D	RO

NOTE: HINGE PIN STOPS ALLOWED WHERE LEVERS WILL NOT CONTACT WALL STOP.
: NO COAT HOOK AT BEDROOM LOCATIONS.

SET: E-1 (LAUNDRY) (CLOSET)

QTY	ITEM	DESCRIPTION	FINISH	MFR
3	HINGES	BY DOOR & FRAME SUPPLIER		
1	PASSAGE LOCKSET	YH11 CS	626	YR
1	STOP	AS REQUIRED (406/409 OR 528 HINGE PIN STOP)		RO
3	SILENCERS	609		RO

NOTE: HINGE PIN STOPS ALLOWED WHERE LEVERS WILL NOT CONTACT WALL STOP.

SET: E-2

QTY	ITEM	DESCRIPTION	FINISH	MFR
3	HINGES	BY DOOR & FRAME SUPPLIER		
2	ROLLER LATCHES	594	US26D	RO
2	DUMMY TRIM	YH81 CS	626	YR
2	STOP	AS REQUIRED (406/409 OR 528 HINGE PIN STOP)		RO
2	SILENCERS	609		RO

NOTES:
1. HINGE PIN STOPS ALLOWED WHERE LEVERS WILL NOT CONTACT WALL STOP.
2. COORDINATE WITH RELATED TRADES TO INSURE DOORS ARE PROVIDED WITH LOCK BLOCKING SUITABLE FOR ANCHORING OF DUMMY LEVER TRIMS.

SET: F
HARDWARE BY DOOR SUPPLIER IN FINISH TO MATCH
WEATHERSTRIPPING
SILL SWEEPS (NYLON BRUSH)
CONTINUOUS HINGES
CONCEALED OVERHEAD STOPS
ACTIVE (INACTIVE LEAF ARRANGEMENT)
1 CYLINDER (DEADBOLT) EACH SIDE OF ACTIVE LEAF

NOTE: WHEN CYLINDER RETRACTED, WILL ALSO RETRACT INACTIVE FLUSH BOLT.

SET: G

QTY	ITEM	DESCRIPTION	FINISH	MFR
3	HINGES	BY DOOR & FRAME SUPPLIER	US26D	MK
1	STOREROOM LOCKSET	PB 4705LNx1210 TEMP	626	YA
1	PERMANENT CORE	AS SPECIFIED	626	YA
1	CLOSER	3501/PR3501	689	YA
1	KICK PLATE	K1050-12"x2" LDW 4BE CSK	US32D	RO
1	WALL STOP	406	US32D	RO
1	GASKET	S88D		PE
1	THRESHOLD	AS REQUIRED*		
1	DRIP CAP			
	WEATHERSTRIPPING			
	ACCESS CONTROL			

FILE NAME: 2143_A6.0.DWG
JOB NO: 42143
DATE: 10/01/21
DRAWN BY: LJF, ALG
CHECKED BY: AJS
REVISIONS:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.
ANTHONY J. STOLL
DATE 10-01-21 REGISTRATION NO. 22296

bhh Partners
PLANNERS / ARCHITECTS
P.O. BOX 185, 650 3RD AVE SE, SUITE #10, PERHAM, MN 56573 (218) 346-4505

S & Z BUILDING

VERGAS, MINNESOTA

SHEET NUMBER:
A-6.0

DESIGN LOADS

A. SNOW LOADS:
   1. GROUND SNOW LOAD, Pg = 60 PSF
   2. ROOF SNOW LOAD, Pf = 42 PSF
   3. THERMAL FACTOR, Ct = 1.0
   4. EXPOSURE FACTOR, Ce = 1.0
   5. IMPORTANCE FACTOR, I = 1.0
   6. UNBALANCED SNOW LOAD: PER ASCE 7
   7. DRIFT: SEE DIAGRAM
B. WIND LOAD
   1. WIND SPEED: 115 MPH
   2. EXPOSURE CATEGORY C
   3. INTERNAL COEFFICIENT, Gcpi = +/- 0.18
C. FLOOR LIVE LOAD (REDUCED AS APPLICABLE PER THE IBC)
   1. EXIT/STAIRS 100 PSF
   2. MECHANICAL 125 PSF
   3. RESIDENTIAL 40 PSF
D. ROOF TRUSS LOADING
   1. TOP CHORD DEAD LOAD 10 PSF
   2. BOTTOM CHORD DEAD LOAD 10 PSF
   3. TOP CHORD LIVE LOAD VARIES, SEE SNOW LOAD
E. FLOOR TRUSS LOADING
   1. TOP CHORD DEAD LOAD 17 PSF
   2. BOTTOM CHORD DEAD LOAD 10 PSF
   3. TOP CHORD LIVE LOAD VARIES, SEE FLOOR LIVE LOADS

CODES

A. MINNESOTA STATE BUILDING CODE - 2020

MISCELLANEOUS

A. PLACEMENT OF ALL MECHANICAL UNITS AND SPECIALIZED EQUIPMENT IS SUBJECT TO APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
B. THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO THE START OF ANY WORK. THE CONTRACTOR IS TO REPORT TO THE STRUCTURAL ENGINEER OF RECORD ANY AND ALL CONFLICTS IN THE CONSTRUCTION DOCUMENTS AND/OR THE ACTUAL CONSTRUCTED CONDITIONS IMMEDIATELY.
C. UNLESS SPECIFICALLY NOTED, NO PROVISIONS HAVE BEEN MADE IN THE STRUCTURAL DOCUMENTS FOR FUTURE EXPANSION OR ADDITION. THE STRUCTURAL MEMBERS HAVE BEEN DESIGNED FOR THEIR FINAL IN PLACE LOADS ONLY (SEE "DESIGN LOADS").
D. THE CONTRACTOR IS RESPONSIBLE FOR BRACING ALL STRUCTURAL ELEMENTS, WITHOUT OVERSTRESSING, AS REQUIRED UNTIL THE ENTIRE PROJECT IS COMPLETE. STOCKPILING OF ANY MATERIALS ON THE STRUCTURAL ELEMENTS IS AT THE CONTRACTOR'S OWN RISK.
E. PROVIDE ISOLATION JOINTS IN THE SLAB ON GRADE AROUND ALL COLUMNS.
F. THE CONTRACTOR SHALL MEASURE ALL ROUGH OPENINGS IN WALLS AFTER THE DEAD LOAD ABOVE THEM IS IN PLACE. ALL WINDOW DESIGNS SHALL ACCOMMODATE A 1/2" LIVE LOAD DEFLECTION.
G. THE GENERAL CONTRACTOR SHALL REPORT ALL NON-CONFORMING TEST REPORTS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW BEFORE PROCEEDING FURTHER WITH THE AFFECTED WORK.
H. ALL LOADS AND REACTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SERVICE (WORKING) LOADS, UNLESS NOTED OTHERWISE.
I. ANCHOR BOLTS SHALL NOT BE REPAIRED, REPLACED, OR FIELD MODIFIED WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

SOILS

A. ALL FOOTINGS ARE DESIGNED FOR AN ALLOWABLE NET SOIL BEARING PRESSURE OF 2000 PSF AS NOTED IN THE REPORT PREPARED BY INDEPENDENT TESTING TECHNOLOGIES DATED SEPTEMBER 20, 2021. THE ALLOWABLE SOIL BEARING PRESSURE IS TO BE VERIFIED BY A GEOTECHNICAL ENGINEER.
B. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR ENGINEERED FILL COMPACTED TO AT LEAST 98% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH ASTM D698 TO PROVIDE THE LISTED DESIGN SOIL BEARING VALUE.
C. WALL FOOTINGS ARE CENTERED ON WALLS AND COLUMN FOOTINGS ARE CENTERED ON COLUMNS UNLESS NOTED OTHERWISE.
D. SOIL IMPROVEMENT AND FILL PLACEMENT ARE TO BE IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND THE SOILS REPORT, AS APPLICABLE.
E. CONSTRUCTION DETAILS FOR ALL SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND THE SOILS REPORT, AS APPLICABLE.
F. PROVIDE FOUNDATION DRAINAGE IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE, THE CODE, AND THE SOILS REPORT, AS APPLICABLE. FOUNDATION DRAINAGE IS THE RESPONSIBILITY OF OTHERS.
G. PROVIDE FOUNDATION INSULATION IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE, THE CODE, AND THE SOILS REPORT, AS APPLICABLE. FOUNDATION INSULATION IS THE RESPONSIBILITY OF OTHERS.
H. PROVIDE FOUNDATION WATER-PROOFING AND/OR DAMP-PROOFING IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE, THE CODE, AND THE SOILS REPORT, AS APPLICABLE. FOUNDATION WATER-PROOFING AND/OR DAMP-PROOFING IS THE RESPONSIBILITY OF OTHERS.
I. PROVIDE UTILITY CONNECTIONS IN ACCORDANCE WITH THE SOIL REPORT.

CAST-IN-PLACE CONCRETE

A. CODES - LATEST EDITION UNLESS NOTED OTHERWISE:
   ACI 301 "SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS"
   ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING"
   ACI 306 "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING"
   ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"
   ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
   ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE"
   ACI 117 "STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS"
B. MATERIAL PROPERTY SPECIFICATIONS:
   1. PORTLAND CEMENT - ASTM C150 TYPE 1
   2. FINE AGGREGATE - ASTM C33
   3. COARSE AGGREGATE - ASTM C33
   4. READY MIX CONCRETE - ASTM C94
   5. REINFORCING BARS - ASTM A615
C. MINIMUM CONCRETE COMPRESSIVE STRENGTH (F'c) AT 28 DAYS SHALL BE:
   1. STRIP FOOTINGS 3000 PSI
   2. SPREAD FOOTINGS 3000 PSI
   3. WALLS 3500 PSI
   4. INTERIOR SLABS-ON-GRADE 4000 PSI
   5. EXTERIOR SLABS 4500 PSI

REINFORCEMENT CONCRETE COVER	
LOCATION	MINIMUM COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
BARS EXPOSED TO WEATHER OR EARTH (#6 THROUGH #18 BARS)	2"
BARS EXPOSED TO WEATHER OR EARTH (#5 BARS AND SMALLER)	$1\frac{1}{2}$"
SLABS, WALL AND JOISTS NOT EXPOSED TO WEATHER OR EARTH (#14 & #18 BARS)	$1\frac{1}{2}$"
SLABS, WALL AND JOISTS NOT EXPOSED TO WEATHER OR EARTH (#11 BARS AND SMALLER)	$\frac{3}{4}$"
BEAMS & COLUMNS NOT EXPOSED TO WEATHER OR EARTH	$1\frac{1}{2}$"

CAST-IN-PLACE CONCRETE - CONTINUED

D. CONCRETE MIX DESIGNS:
   1. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY OR READY MIX SUPPLIER TO DESIGN CONCRETE MIXES FOR EACH TYPE OF CONCRETE REQUIRED. THE MIX DESIGN SHALL BE DESIGNED AND PROPORTIONED TO MEET THE REQUIREMENTS OF THE MINIMUM DESIGN STRENGTH, AS WELL AS PLACEMENT, USE, AND SERVICEABILITY. THE MIX DESIGNS SHALL BE SUBMITTED TO THE OWNER AND THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO ANY CONCRETE PLACEMENT.
   2. THE USE OF ALL ADMIXTURES IS TO BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THEIR USE.
   3. ALL EXTERIOR SLAB WORK SHALL HAVE 6% +/- 1% AIR ENTRAINMENT WITH A MAXIMUM WATER/CEMENT RATIO OF 0.45.
E. REINFORCING MATERIALS:
   1. ALL REINFORCING BARS SHALL BE GRADE 60 (60 KSI YIELD STRENGTH), UNLESS NOTED OTHERWISE.
F. REINFORCING PLACEMENT:
   1. PROVIDE ADDITIONAL REINFORCING AROUND ALL SIDES OF ANY SLAB OR WALL OPENINGS GREATER THAN 24" IN ANY DIRECTION EQUAL TO A MINIMUM OF (2) #5 BARS. EXTEND THE REINFORCEMENT A MINIMUM OF 2'-0" BEYOND THE EDGES OF THE OPENINGS.
   2. PLACE ALL REINFORCING IN ACCORDANCE WITH THE DETAILING STANDARDS OF ACI 315. THE REINFORCING SUPPLIER SHALL PROVIDE ALL ACCESSORIES NEEDED TO SUPPORT AND SECURE ALL REINFORCING ADEQUATELY.
   3. PROVIDE CONCRETE COVER IN ACCORDANCE WITH ACI 318.
   4. ALL BAR SPLICES SHALL BE LAP TYPE AND ARE TO MEET THE MINIMUM LAP LENGTHS NOTED IN THE "CONCRETE REBAR DEVELOPMENT AND LAP SPLICE LENGTH" TABLE ON S1.0.
G. CONCRETE PLACEMENT:
   1. THE OWNER, AT HIS EXPENSE, SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING FIRM TO PERFORM FIELD TESTS OF THE CONCRETE. EACH TYPE OF CONCRETE USED SHALL BE TESTED EACH DAY WITH A MINIMUM OF ONE TEST FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. EACH TEST SHALL CONSIST OF THREE CYLINDERS, TAKEN AND TESTED IN ACCORDANCE WITH ASTM C39 FOR STRENGTH, ASTM C143 FOR SLUMP, AND ASTM C231 OR ASTM C173 FOR AIR CONTENT. ANY CONCRETE WHICH DOES NOT MEET THE REQUIREMENTS OF THE MIX DESIGN SHALL NOT BE ALLOWED TO BE PLACED.
   2. ALL CONCRETE TEST REPORTS SHALL BE SUBMITTED TO THE OWNER.
   3. NO WATER SHALL BE ADDED TO THE CONCRETE IN THE FIELD UNLESS AUTHORIZED BY A REPRESENTATIVE OF THE STRUCTURAL ENGINEER OF RECORD. THE AMOUNT OF ANY WATER ADDED SHALL BE RECORDED ON ALL COPIES OF THE DELIVERY TICKET. CONCRETE WITH WATER ADDED IN THE FIELD SHALL HAVE AN ADDITIONAL MIXING OF 30 DRUM REVOLUTIONS BEFORE PLACEMENT.
   4. CONCRETE SHALL BE DISCHARGED WITHIN 1.5 HOURS OF ITS BATCH TIME. ALLOWANCES FOR HOT WEATHER SHALL BE TAKEN AS REQUIRED. THE CONTRACTOR SHALL TIMELY COORDINATE WITH THE CONCRETE SUPPLIER TO OBTAIN A MODIFIED MIX SO THAT CONCRETE PLACEMENT IS COMPLETED PRIOR TO STIFFENING.
   5. SLABS-ON-GRADE ARE TO BE POURED IN A STRIP PATTERN WITH CONTROL JOINTS AS INDICATED ON THE STRUCTURAL DRAWINGS. BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL THOROUGHLY WET THE GRAVEL OR SAND BASE AND COMPACT IT TO A SOLID FIRM CONDITION. PLACE REINFORCING, IF REQUIRED, AT THE ELEVATION WITHIN THE SLAB SHOWN ON THE DRAWINGS.
   6. PROTECT ALL CONCRETE FROM PREMATURE DRYING AND WASH BY RAIN.
   7. ALL CONCRETE FLOORS SHALL BE SCREEDED TO AN EVEN AND LEVEL PLANE, FLOATED, AND GIVEN A TROWELED FINISH AS SPECIFIED IN ACI 310, SECTION 11.7.3. SLOPE THE FLOOR TO ANY DRAINS OR VALLEYS AS INDICATED ON THE ARCHITECTURAL PLANS. THE FINISHED SURFACE SHALL MEET THE FLATNESS CRITERIA OF Ff = 25 AND Fl = 20.
   8. ALL CONCRETE FLOOR FINISHES SHALL BE COVERED WITH A LAYER OF 4 MIL PLASTIC. THE COVERING SHALL BE PLACED AS SOON AS POSSIBLE WITHOUT MARRING THE SURFACE AND SHALL BE LEFT IN-PLACE NOT LESS THAN SEVEN DAYS. THE COVERING SHALL BE SECURELY ANCHORED IN-PLACE WITH SAND PLACED CONTINUOUSLY AROUND THE SLAB EDGES AND AT INTERMEDIATE POINTS AS NECESSARY.
   9. SAW CUTTING OF THE CONTROL JOINTS IS TO BE COMPLETED AFTER THE SLAB HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT RAVELING, BUT BEFORE RANDOM CRACKING OCCURS. INSTALL JOINT SEALANT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
   10. DO NOT PLACE CONCRETE ON FROZEN GROUND, SNOW, OR FROST OR IN FORMS CONTAINING SNOW OR FROST.
   11. ALL CONCRETE IS TO BE COMPACTED DURING PLACEMENT WITH INTERNAL VIBRATORS AT A MINIMUM OF 8000 VPM. THE CONTRACTOR IS TO PROTECT THE CONCRETE AGAINST SEGREGATION AND OVER-VIBRATION.
H. CONCRETE FORM WORK, REINFORCEMENT AND PLACEMENT SPECIAL INSPECTION:
   1. THE OWNER, AT HIS OWN EXPENSE, SHALL RETAIN A SPECIAL INSPECTOR UNDER HOURLY CONTRACT TO INSPECT THE FOLLOWING ITEMS IN ACCORDANCE WITH IBC SECTION 1705.3:
      a. CONCRETE FORMWORK DIMENSIONS, EXCLUDING SLABS-ON-GRADE, AND STRIP FOOTINGS WITHOUT TRANSVERSE REINFORCEMENT. VERIFY THE FORMWORK SIZE, LOCATION, AND CONFIGURATION ONLY AS IT AFFECTS THE STRUCTURAL INTEGRITY OF THE ELEMENT BEING PLACED.
      b. CAST-IN-PLACE CONCRETE REINFORCEMENT, EXCLUDING SLABS-ON-GRADE, STRIP FOOTINGS WITHOUT TRANSVERSE REINFORCEMENT, AND TOPPING SLABS. VERIFY THE FOLLOWING:
         1. REINFORCING BAR SIZE, LOCATION, AND GRADE
         2. REINFORCING IS FREE OF DIRT, EXCESSIVE RUST, AND DAMAGE
         3. REINFORCING IS ADEQUATELY TIED, CHAIRED, AND SUPPORTED
         4. PROPER REINFORCING CLEAR AND COVER DISTANCES
         5. BAR LAPS FOR PROPER LENGTH AND STAGGER BAR
         6. BENDS FOR MINIMUM DIAMETER, SLOPE, AND LENGTH
      c. PREPARATION AND PLACEMENT OF ALL CONCRETE AND CURING METHODS, EXCLUDING SLABS-ON-GRADE, STRIP FOOTINGS WITHOUT TRANSVERSE REINFORCEMENT, AND TOPPING SLABS. VERIFY THE FOLLOWING:
         1. ACCEPTABLE GENERAL CONDITIONS OF BASE PRIOR TO PLACEMENT
         2. THE CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION AND CONTAMINATION
         3. THE CONCRETE IS PROPERLY CONSOLIDATED
         4. REINFORCEMENT REMAINS AT ITS PROPER LOCATION
         5. THE SPECIFIED CURING PROCEDURES ARE BEING FOLLOWED AND THAT HOT AND COLD WEATHER PROCEDURES ARE BEING FOLLOWED, AS REQUIRED
      d. BOLTS INSTALLED IN CONCRETE. VERIFY THE FOLLOWING:
         1. BOLTS MEET THE SPECIFIED SIZE, TYPE, SPACING, CONFIGURATION, EMBEDMENT, AND QUALITY
         2. PROPER CONCRETE PLACEMENT AND CONSOLIDATION AROUND ALL BOLTS

WOOD

A. ALL WOOD CONSTRUCTION IS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CODE AND THE FOLLOWING:
   1. AMERICAN PLYWOOD ASSOCIATION (APA)
   2. APA - THE ENGINEERED WOOD ASSOCIATION
   3. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)
   4. WESTERN WOOD PRODUCTS ASSOCIATION
   5. US PRODUCTS STANDARD PS 20
   6. NATIONAL LUMBER AND BUILDING MATERIAL DEALERS ASSOCIATION (NLBMDA)
   7. AMERICAN WOOD PROTECTION ASSOCIATION (AWPA)
B. NAIL ALL WOOD MEMBERS IN ACCORDANCE WITH IBC TABLE 2304.9.1, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
C. ALL WOOD MEMBERS SHALL BE AS FOLLOWS, IN ACCORDANCE WITH THE PROPERTIES OF THE NDS:
   1. STUDS, BLOCKING, NAILERS, AND MISCELLANEOUS LUMBER SHALL BE SPRUCE-PINE-FIR (SPF) #2 GRADE OR BETTER
   2. BEAMS AND COLUMNS SHALL BE SPRUCE-PINE-FIR (SPF) #2 GRADE OR BETTER
   3. LAMINATED VENEER LUMBER (LVL) SHALL BE Fb = 2600 PSI, Fv = 285 PSI, E=1,900,000 PSI
   4. TIMBERSTRAND LSL MEMBERS SHALL BE Fb = 2325 PSI, Fv = 310 PSI, E=1,550,000 PSI
   5. PARALLAM PSL MEMBERS SHALL BE Fb = 2400 PSI, Fv = 190 PSI, E=1,800,000 PSI
   6. WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY OR EXPOSED TO WEATHER ARE TO BE PRESSURE TREATED SOUTHERN YELLOW PINE #2 GRADE OR BETTER
   7. EXTERIOR PLYWOOD AND THAT USED FOR FORMWORK SHALL BE EXTERIOR GRADE OR SPECIAL FORM GRADE USING WATERPROOF GLUE
D. USE NON-CORROSIVE AND NON-STAINING HARDWARE AND FASTENERS FOR ALL EXTERIOR APPLICATIONS.
E. POSTS AND BEARING STUDS FOR BEAMS, HEADERS AND GIRDER TRUSSES ARE TO BE CONTINUOUS TO THE FOUNDATION. PROVIDE BLOCKING WITHIN THE FLOOR SYSTEM TO MATCH THE POST/STUD ASSEMBLY.
F. PLYWOOD SHEATHING SHALL BE STRUCTURAL II, C-D GRADE COMPLYING WITH THE REQUIREMENTS OF U.S. PRODUCTS STANDARD PS 1 AND THE PERFORMANCE STANDARDS OF THE APA.
G. ALL BEAMS AND JOISTS NOT DIRECTLY BEARING ON SUPPORTING MEMBERS SHALL BE CONNECTED WITH A SIMPSON OR EQUIVALENT FRAMING HANGER. ALL COLUMNS SHALL BE ANCHORED TOP AND BOTTOM WITH A SIMPSON OR EQUIVALENT POST CAP/BASE.
H. NAIL AND/OR BOLT TOGETHER ALL LAMS OF MULTIPLE LVL BEAMS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
I. SHEATHING SHALL BE AS FOLLOWS:
   1. PLYWOOD WALL AND ROOF SHEATHING SHALL BE APA RATED EXPOSURE 1 COMPLYING WITH THE REQUIREMENTS OF U.S. PRODUCTS STANDARDS PS 1. SEE PLAN FOR THICKNESS AND RATING.
   2. PLYWOOD USED IN CONCRETE FORMS SHALL BE APA RATED OR HIGH DENSITY EXTERIOR OVERLAY. THE THICKNESS OF THE PLYWOOD IS TO BE IN ACCORDANCE WITH THE APA DESIGN GUIDE "CONCRETE FORMING, V345".
   3. FLOOR SHEATHING WITH GYPCRETE TOPPING IS TO HAVE EXTERIOR GRADE ADHESIVE.
   4. UNSUPPORTED EDGES OF ROOF SHEATHING SHALL HAVE A MINIMUM OF ONE PANEL EDGE CLIP PER SPAN, TONGUE & GROOVE OR BLOCKING. APA RECOMMENDS TONGUE & GROOVE EDGES BE GLUED.
J. WOOD TRUSSES:
   1. WOOD TRUSSES ARE TO BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE (TPI).
   2. THE TRUSS DESIGN AND SHOP DRAWINGS ARE TO BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT. THE DESIGN AND SHOP DRAWINGS ARE TO BE SUBMITTED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION. THE CALCULATIONS AND SHOP DRAWINGS ARE TO INCLUDE THE TRUSS LAYOUT AND DESIGN FOR EACH LOAD AND SPAN CONDITION. THE DRAWINGS SHALL ALSO INCLUDE THE TRUSS CONFIGURATIONS, WOOD GRADE, LOADING, MEMBER STRESSES, LIVE LOAD DEFLECTION, DEAD LOAD DEFLECTION, AND CAMBER REQUIREMENTS, IF ANY.
   3. ROOF TRUSSES SHALL BE LIMITED TO A LIVE LOAD DEFLECTION OF SPAN/360 AND SHALL BE CAMBERED FOR DEAD LOAD DEFLECTION.
   4. FLOOR TRUSSES SHALL BE LIMITED TO A LIVE LOAD DEFLECTION OF SPAN/480 AND SHALL BE CAMBERED FOR DEAD LOAD DEFLECTION.
   5. LATERALLY BRACE ALL TRUSSES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON THE STRUCTURAL DRAWINGS.
   6. PROVIDE A SIMPSON OR EQUIVALENT HOLD DOWN ANCHOR AT EACH ROOF TRUSS BEARING POINT, UNLESS NOTED OTHERWISE.

CONCRETE REINFORCEMENT DEVELOPMENT AND LAP SPLICE LENGTH			
BAR SIZE	F'c = 3000 PSI	F'c = 4000 PSI	F'c = 4500 PSI
#3	17"	15"	14"
#4	22"	19"	18"
#5	28"	24"	23"
#6	33"	29"	27"
#7	48"	42"	40"
#8	55"	48"	45"

NOTES:
1. BAR COVER IS TO BE GREATER THAN BAR DIAMETER, BUT NOT LESS THAN $\frac{3}{4}$".
2. BAR SPACING IS TO BE GREATER THAN 2 BAR DIAMETERS.
3. BASED ON STEEL OF Fy = 60,000 PSI AND NORMAL WEIGHT CONCRETE.

STRUCTURAL STEEL

A. DESIGN CODE:
   1. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" (AISC), LATEST EDITION.
   2. STEEL CONSTRUCTION MANUAL (AISC), LATEST EDITION.
B. MATERIALS:
   1. WIDE FLANGE SHAPES - ASTM A992 (Fy = 50 KSI)
   2. HOLLOW STRUCTURAL SECTIONS (HSS) - ASTM A500, GR. B (Fy=46 KSI)
   3. WELDING ELECTRODES - ASTM A233 E70 SERIES.
   4. CONNECTION BOLTS - ASTM A325
   5. MISCELLANEOUS STEEL - ASTM A36
C. INSTALLATION NOTES
   1. SHOP AND FIELD WELDING IS TO BE PER AWS D1.1, LATEST EDITION. ALL WELDING IS TO BE PERFORMED BY CERTIFIED WELDERS ONLY.
   2. THE STEEL SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL CAP PLATES, BEARING PLATES, BASE PLATES, STIFFENERS, SPLICES, AND CONNECTIONS UNLESS DETAILED ON THE DRAWINGS. THE STEEL SUPPLIER IS TO INCLUDE ALL BOLTS AND HOLES FOR REQUIRED "OSHA" CONNECTIONS.
   3. STEEL SUPPLIER IS TO PAINT AND TOUCH UP ALL STEEL PER AISC SPECIFICATION SECTION 1.24. PROVIDE A FINISHING COAT FOR ALL STEEL SURFACES WHICH MAY BE EXPOSED TO FREEZING TEMPERATURES (FOR CONDENSATION PROTECTION).
   4. ALL STEEL IS TO BE SHOP PRIMED GREY.
D. SUBMIT SHOP DRAWINGS FOR ALL STEEL MEMBERS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE SHOP DRAWINGS ARE TO SHOW ALL MEMBER SIZES, LENGTHS, AND REQUIRED CONNECTION INFORMATION.
E. STRUCTURAL STEEL TESTING- THE OWNER, AT HIS OWN EXPENSE, SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING AGENCY TO TEST THE FOLLOWING:

   1. HIGH STRENGTH BOLTED CONNECTIONS PER THE R.C.S.C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR ASTM A490 BOLTS, AS FOLLOWS:

      PREPARATION: PRIOR TO BOLTING, VISUALLY INSPECT THE MATING SURFACES AND BOLT TYPE FOR ALL SLIP CRITICAL CONNECTIONS. INSURE GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS.

      BEARING BOLTS: VISUALLY INSPECT TO CONFIRM ALL PLIES OF CONNECTED ELEMENTS HAVE BEEN BROUGHT INTO FULL CONTACT AT 100% OF THE CONNECTIONS.

      SHOP FABRICATED WORK: PERFORM TESTS NOTED ABOVE, EXCEPT BOLT TESTING MAY BE REDUCED OR DELETED IF THE FABRICATION SHOP SATISFIES THE QUALITY CERTIFICATION PROGRAM OF AISC FOR A CATEGORY 1 FABRICATOR OR A MORE STRINGENT CRITERIA. TESTING MAY ALSO BE WAIVED IF THE FABRICATOR IS APPROVED BY BOTH THE BUILDING OFFICIAL AND THE STRUCTURAL ENGINEER OF RECORD.

   2. WELDING, AS FOLLOWS:

      FILLET WELDS: VISUALLY INSPECT 100% OF ALL FILLET WELDS FOR SIZE, LENGTH, AND QUALITY PER AWS D1.1.

      PROCEDURES AND PREPARATION: VERIFY THE FOLLOWING:
      a. QUALIFICATIONS OF ALL WELDERS AS AWS CERTIFIED
      b. PROPOSED WELDING PROCEDURES AND MATERIALS
      c. ADEQUATE PREPARATION OF FAYING SURFACES
      d. PREHEAT AND INTERPASS TEMPERATURES OF STEEL
      e. PROPER TECHNIQUE AND SEQUENCE OF WELDING, CLEANING, AND NUMBER OF PASSES
      f. BACKER BARS ARE REMOVED AND EXPOSED SURFACE FILED CLEAN

   3. EXPANSION BOLTING AND ADHESIVE ANCHORING: BE CONTINUOUSLY PRESENT DURING INSTALLATION TO VERIFY BOLT TYPE, DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, PRE-DRILLED HOLE DIMENSIONS, HOLE CLEANLINESS, EMBEDMENT DEPTH, PROJECTION, ANCHOR SPACING, EDGE DISTANCES, AND TIGHTENING TORQUE. VERIFY THAT APPROPRIATE MEASURES ARE BEING TAKEN FOR THE AIR TEMPERATURE AT THE TIME OF THE WORK.

   4. ALL TESTING REPORTS SHALL BE SUBMITTED TO THE OWNER.

ABBREVIATIONS:

AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ADDNL	ADDITIONAL	LONG	LONGITUDINAL
ALT	ALTERNATE	LVL	LAMINATED VENEER LUMBER
APPROX	APPROXIMATE	MAX	MAXIMUM
ARCH	ARCHITECT OR ARCHITECTURAL	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	MNFR	MANUFACTURER
BM	BEAM	MTL	METAL
BRG	BEARING	NS	NEAR SIDE
BSMT	BASEMENT	NTS	NOT TO SCALE
BTWN	BETWEEN	OC	ON CENTER
CIP	CAST-IN-PLACE	OPNG	OPENING
CJ	CONTROL JOINT	OPP	OPPOSITE
℄	CENTERLINE	OSB	ORIENTED STRAND BOARD
CLR	CLEAR	PERP	PERPENDICULAR
CMU	CONCRETE MASONRY UNIT	PC	PRECAST
COL	COLUMN	PL	PLATE (STEEL)
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH
CONST	CONSTRUCTION	PT	POINT
CONT	CONTINUE OR CONTINUOUS	QTY	QUANTITY
CONTR	CONTRACTOR	REF	REFERENCE
COORD	COORDINATE	REINF	REINFORCEMENT
CSJ	CONSTRUCTION JOINT	REQ'D	REQUIRED
CTR(D)	CENTER(ED)	SCHED	SCHEDULE
DBL	DOUBLE	SECT	SECTION
DIA	DIAMETER	SIM	SIMILAR
DIAG	DIAGONAL	SOG	SLAB-ON-GRADE
DIM	DIMENSION	SP	SPACE
DL	DEAD LOAD	SPECS	SPECIFICATIONS
DN	DOWN	STD	STANDARD
DTL(S)	DETAIL(S)	STIFF	STIFFENER
DWG (S)	DRAWING(S)	STL	STEEL
DWL(S)	DOWEL(S)	STR	STRUCTURAL
EA	EACH	SYM	SYMMETRICAL
EF	EACH FACE	T&B	TOP AND BOTTOM
ELEV	ELEVATION	TL	TOTAL LOAD
EMBED	EMBEDMENT	TOB	TOP OF BEAM
ENGR	ENGINEER	TOF	TOP OF FOOTING
EQ	EQUAL	TOP	TOP OF PIER
EQUIP	EQUIPMENT	TOS	TOP OF SLAB
EW	EACH WAY	TOW	TOP OF WALL
EX	EXISTING	TRANS	TRANSVERSE
EXP	EXPANSION	TYP	TYPICAL
EXT	EXTERIOR	UNO	UNLESS NOTED OTHERWISE
FND	FOUNDATION	VERT	VERTICAL
FS	FAR SIDE	w/	WITH
FTG	FOOTING	WP	WORKING POINT
FV	FIELD VERIFY	WT	WEIGHT
GT	GIRDER TRUSS		
HORIZ	HORIZONTAL		
HT	HEIGHT		
INT	INTERIOR		
JST	JOIST		
JT	JOINT		
K	KIP		
LB(S)	POUND(S)		
LL	LIVE LOAD		
LLV	LONG LEG VERTICAL		

SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 1700 OF THE INTERNATIONAL BUILDING CODE & THE GUIDELINES FOR SPECIAL INSPECTION & TESTING.

TECHNICAL		DESCRIPTION	TYPE OF INSPECTOR	REMARKS
SECTION	ARTICLE			
1705	2	STEEL	SI-S	MATERIAL VERIFICATION & STRUCTURAL DETAILS
1705	3	CONCRETE	SI-S, SI-T	CONCRETE COMPRESSIVE STRENGTH INSPECTION OF CONCRETE AND REINFORCEMENT PLACEMENT
1705	5	WOOD	SI-S	FABRICATOR CERTIFICATION, DIAPHRAGMS & SHEARWALLS
1705	6	SOILS	SI-T	SOIL COMPACTION & VERIFICATION OF SOIL CAPACITY

DRAWING LIST

DESCRIPTION	DWG NO.
GENERAL NOTES	S1.0
FOUNDATION PLAN	S2.0
FLOOR/LOW ROOF FRAMING PLAN	S3.0
UPPER ROOF FRAMING PLAN	S3.1
FOUNDATION SECTIONS & DETAILS	S4.0
FRAMING SECTIONS & DETAILS	S5.0
FRAMING SECTIONS & DETAILS	S5.1

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Revision	Description	Date

Drawing Title
GENERAL NOTES

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Signed: [signature]
Print Name: Jason Schik
Date: 09-29-21 License Number: 47529

Project Title
S & Z Building
105 East Main Street
Vergas, MN

Project Number		Sheet No.
21.043		S1.0
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		

FOUNDATION NOTES

1. ALL ANCHOR BOLTS ARE TO BE HOT-DIP GALVANIZED OR STAINLESS STEEL.
2. SLAB-ON-GRADE IS TO BE PLACED ON A MINIMUM OF 6" OF GRANULAR FILL. SEE ARCHITECTURAL DRAWINGS FOR VAPOR BARRIER REQUIREMENTS.
3. SEE 1/S4.0 AND 2/S4.0 FOR SLAB CONTROL AND CONSTRUCTION JOINT DETAILS.
4. SEE 3/S4.0 AND 4/S4.0 FOR LAPPING OF HORIZONTAL REINFORCEMENT AT WALL CORNERS AND INTERSECTIONS.
5. STRIP FOOTINGS ARE CENTERED ON WALLS AND SPREAD FOOTINGS ARE CENTERED ON COLUMNS UNLESS NOTED OTHERWISE.
6. VERIFY DOOR OPENING LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
7. CONTROL JOINTS FOR THE SLAB-ON-GRADE ARE TO BE SPACED AT A MAXIMUM OF 12'-0" ON CENTER IN A SQUARE PATTERN. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.5:1.
8. CONTRACTOR IS TO PROVIDE 5'-0" MINIMUM FROST PROTECTION TO THE BOTTOM OF THE FOOTING.
9. CONTRACTOR IS TO REMOVE ALL UNSUITABLE SOILS AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
10. MATERIAL TYPE, COMPACTION & TESTING FREQUENCY OF ENGINEERED FILL IS TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER TO MEET THE SPECIFIED ALLOWABLE SOIL BEARING PRESSURE.
11. CONTRACTOR IS TO FIELD LOCATE STEP FOOTINGS. SEE 6/S4.0 FOR STEP FOOTING DETAIL.

KEY NOTES:

1. DOWEL THICKENED SLAB TO FND WALL w/ (2) #5x3'-0" HOOKS SEE 17/S4.0
2. HOLDOUT TOP OF 6" CONCRETE WALL AT COLUMN/BASE PLATE SEE 16/S4.0
3. PROVIDE HOLDOUT IN WALL AT BASE PLATE - SEE 15/S4.0
4. STEP TOP OF FOUNDATION WALL - VERIFY LOCATION w/ ARCH
5. HOOK SLAB TO FOUNDATION WALL w/ #4x4'-0" HOOKS @ 24" OC FROM CORNER OF BUILDING TO SOUTH SIDE OF STOOP
6. RETAINING WALL BY OTHERS

FOUNDATION PLAN LEGEND:

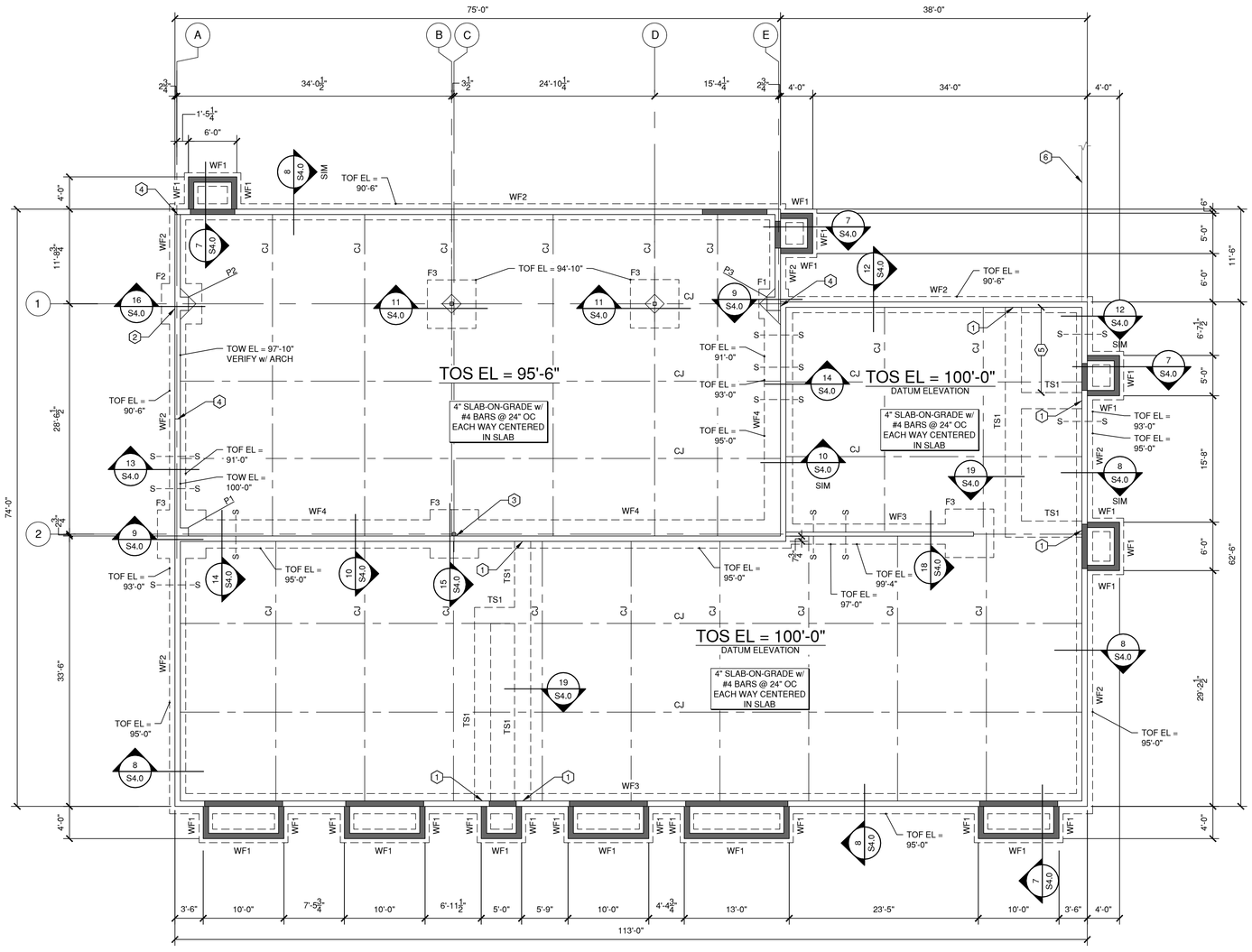
- FOUNDATION WALL
- FOUNDATION WALL AT DOORS/STOOPS - TOW EL = 99'-4"
- FX - FOOTING NOTATION - SEE SCHEDULE
- PX - PIER NOTATION - SEE SCHEDULE
- S – – – S - STEP FOOTING - SEE 6/S4.0

FOOTING SCHEDULE

MARK	SIZE	REINFORCEMENT	NOTES
F1	4'-0"x4'-0"x1'-0"	(4) #5 BARS EACH WAY	-
F2	5'-0"x5'-0"x1'-0"	(5) #5 BARS EACH WAY	-
F3	6'-6"x6'-6"x1'-0"	(6) #5 BARS EACH WAY	-
TS1	2'-0"xCONTx1'-0"	(2) #5 HORIZ BARS	THICKENED SLAB
WF1	1'-8"xCONTx1'-0"	(2) #5 HORIZ BARS	TYP @ STOOPS
WF2	2'-0"xCONTx1'-0"	(2) #5 HORIZ BARS	-
WF3	2'-6"xCONTx1'-0"	(2) #5 HORIZ BARS	-
WF4	3'-6"xCONTx1'-0"	SEE 10/S4.0	-

PIER SCHEDULE

MARK	DETAIL
P1	21/S4.0
P2	22/S4.0
P3	23/S4.0



FOUNDATION PLAN

SCALE 1/8" = 1'-0"

PLAN NORTH

TRUE NORTH

Client Information

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Revision	Description	Date

Drawing Title

FOUNDATION PLAN

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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed: Jason Schik

Print Name: Jason Schik

Date: 09-29-21 License Number: 47529

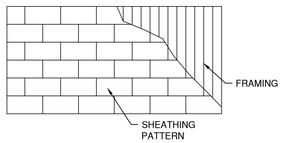
Project Title

S & Z Building
105 East Main Street
Vergas, MN

Project Number		Sheet No.
21.043		S2.0
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		

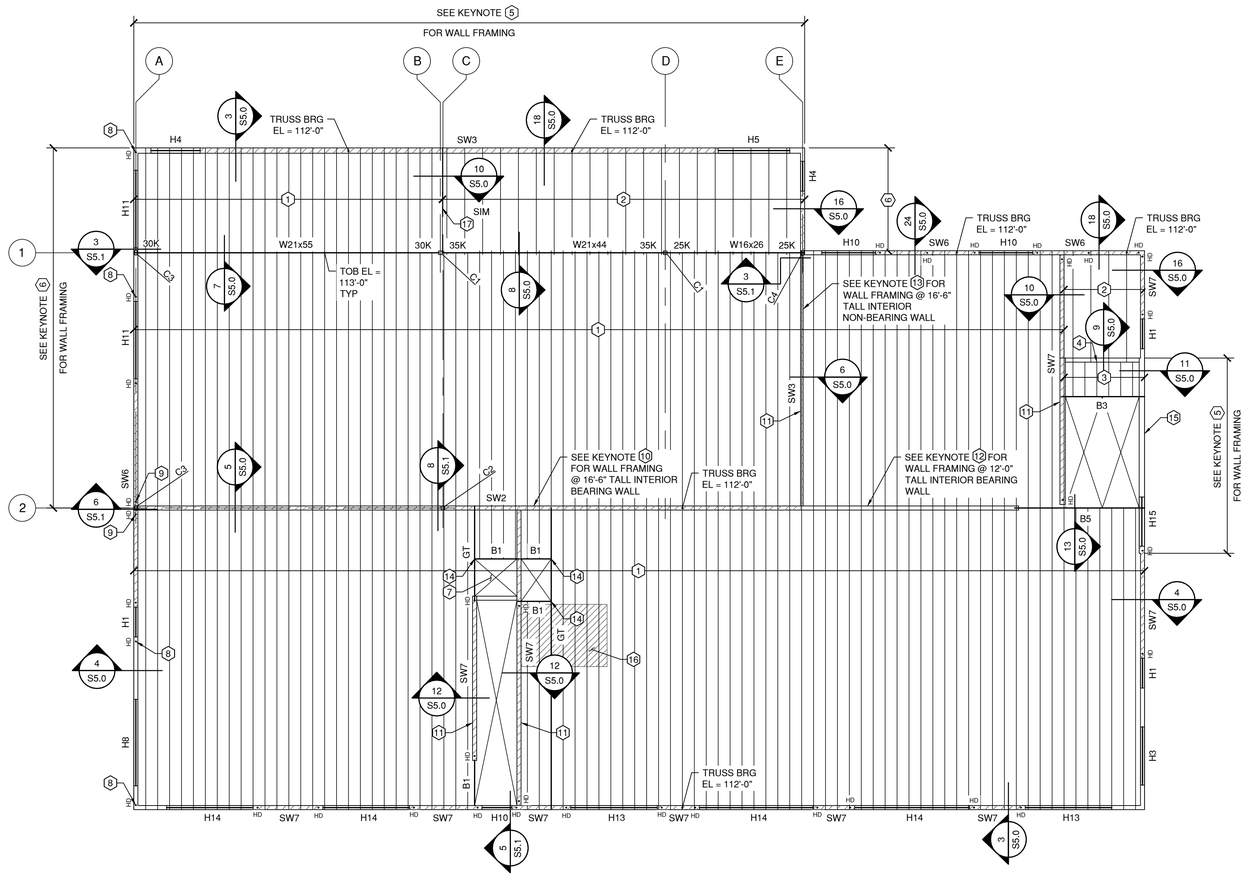
FRAMING NOTES:

1. EXTERIOR WALLS & INTERIOR BEARING WALLS UNO (12'-0" TALL WALLS)
   - 2x6 SPF SELECT STRUCTURAL GRADE STUDS AT 16" ON CENTER
   - (2) 2x6 SYP NO. 1 GRADE TOP PLATE
   - 2x6 SYP NO. 2 GRADE TREATED BTM PLATE
2. SEE PLAN FOR FRAMING AT 16'-6" TALL WALLS.
3. ALL DOUBLE TOP PLATES ARE TO BE CONTINUOUS WITH STAGGERED SPLICES. TOP PLATES ARE TO BE SPLICED AT STUD LOCATIONS. SEE 2/S5.0.
4. ALL FRAMING MEMBERS ARE TO BE SPF NO. 2 GRADE UNLESS NOTED OTHERWISE.
5. GANG/BEARING STUDS AT GIRDER TRUSSES AND BEAMS ARE TO BE FASTENED TOGETHER WITH 10d NAILS AT 6" ON CENTER STAGGERED.
6. GIRDER TRUSSES ARE TO BEAR ON A MINIMUM OF (3) 2x6 BEARING STUDS UNLESS NOTED OTHERWISE.
7. EXTERIOR WALLS ARE TO BE SHEATHED WITH $\frac{7}{16}$" APA RATED PLYWOOD OR OSB AND ARE TO BE FASTENED WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS.
8. VERIFY THE LOCATION OF ALL WINDOW AND DOOR OPENINGS WITH THE ARCHITECTURAL DRAWINGS.
9. ALL TRUSS BEARING ELEVATIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
10. SEE TRUSS DRAWINGS FOR ADDITIONAL BRACING.
11. COORDINATE TRUSS LAYOUT AND CONFIGURATION w/ MECHANICAL.
12. ALL STEEL BEAM SHEAR CONNECTIONS ARE TO BE DESIGNED BY THE STEEL SUPPLIER FOR THE SERVICE (WORKING) LOAD/REACTIONS NOTED ON THE PLAN. SEE 3/S5.1 FOR TYPICAL SHEAR CONNECTION DETAIL.
13. THE FLOOR IS TO BE SHEATHED WITH $\frac{3}{4}$" APA RATED 48/24 MINIMUM TONGUE AND GROOVE PLYWOOD AND IS TO BE FASTENED WITH 10d NAILS AT 4" OC AT ALL SUPPORTS. GLUE SHEATHING TO FLOOR TRUSSES AND AT TONGUE AND GROOVE JOINTS.
15. SEE 2/S5.1 FOR SNOW DRIFT LOADS ON LOWER ROOF.
16. THE ROOF IS TO BE SHEATHED WITH $\frac{7}{16}$" APA RATED 48/24 MIN TONGUE & GROOVE PLYWOOD AND IS TO BE FASTENED WITH 10d NAILS AT 4" ON CENTER AT ALL SUPPORTS. ALL SHEATHING IS TO SPAN A MINIMUM OF (3) TRUSS SPACES.



KEY NOTES:

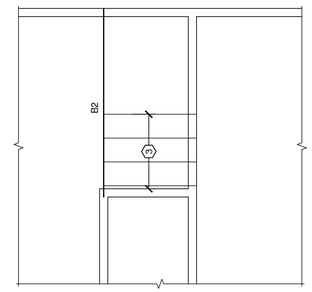
1. 24" DEEP PRE-ENGINEERED FLOOR TRUSSES @ 16" OC
2. PRE-ENGINEERED ROOF TRUSSES @ 24" OC
3. 2x10 SPF NO. 2 JOISTS @ 16" OC w/ JOIST HANGER EACH END BY SUPPLIER
4. FASTEN 2x10 SPF NO. 2 LEDGER TO WALL STUDS w/ (2) SIMPSON SDWS22400 SCREWS @ 16" OC AT STAIR LANDING
5. 2x8 SPF SELECT STRUCTURAL STUDS @ 16" OC w/ (2) 2x8 SPF NO. 2 TOP PLATE & 2x8 SYP NO. 2 TREATED SILL PLATE
6. 1$\frac{3}{4}$x5$\frac{1}{2}$ LSL STUDS @ 16" OC w/ (2) 2x6 SFP NO. 2 TOP PLATE & 2x6 SYP NO. 2 TREATED SILL PLATE
7. SEE 1/S3.0 FOR LANDING FRAMING
8. PROVIDE SIMPSON HDU4 w/ $\frac{5}{8}$"Ø THREADED ROD & SIMPSON SET-3G ADHESIVE (12" EMBED) AT STUDS DIRECTLY BELOW HOLDOWN STRAPS FROM SHEAR WALL ABOVE (SEE S3.1)
9. PROVIDE HOLDOWN EACH SIDE OF COLUMN - SEE SHEAR WALL SCHEDULE FOR HOLDOWN
10. 1$\frac{3}{4}$x5$\frac{1}{2}$ LSL STUDS @ 12" OC w/ (2) 2x6 SYP NO. 1 TOP PLATE & (1) 2x6 SYP NO. 2 TREATED SILL PLATE
11. LOCATE FLOOR TRUSS DIRECTLY ABOVE SHEAR WALL
12. 2x6 SPF SELECT STRUCTURAL STUDS @ 12" OC w/ (2) 2x6 SYP NO. 1 TOP PLATE & (1) 2x6 SYP NO. 2 TREATED SILL PLATE
13. 1$\frac{3}{4}$x3$\frac{1}{2}$ LSL STUDS @ 16" OC w/ (2) 2x4 SPF NO. 2 TOP PLATE & (1) 2x4 SYP NO. 2 TREATED SILL PLATE
14. HANGER BEAM TO GIRDER TRUSS - HANGER BY TRUSS SUPPLIER TYP
15. BALLOON FRAME WALL FULL HEIGHT AT STAIRS
16. DESIGN FLOOR AT MECHANICAL ROOM FOR 125 PSF LIVE LOAD
17. DESIGN TRUSS BELOW WALL FOR W_{DL} = 220 PLF, W_S = 200 PLF, W_{LL} = 100 PLF



FLOOR/LOW ROOF FRAMING PLAN

SCALE $\frac{1}{4}$" = 1'-0"

PLAN NORTH / TRUE NORTH



PARTIAL PLAN

STAIR LANDING SCALE: 1/4"=1'-0"

BEAM SCHEDULE

MARK	SIZE	BRG STUDS UNO
B1	(2) 2x10	(2) 2x6
B2	(3) 2x10	(2) 2x6
B3	(3) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(3) 2x6
B4	(3) 1$\frac{3}{4}$x11$\frac{7}{8}$ LVL	(3) 2x6
B5	(3) 1$\frac{3}{4}$x24 LVL	(6) 2x6

HEADER SCHEDULE

MARK	SIZE	BRG STUDS UNO	KING STUDS
H1	(2) 2x10	(1) 2x6	(1) 2x6
H2	(3) 2x10	(1) 2x6	(1) 2x6
H3	(3) 2x10	(1) 2x6	(2) 2x6
H4	(3) 2x10	(1) 2x8	(2) 2x8
H5	(2) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(1) 2x8	(3) 2x8
H6	(2) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(1) 2x6	(1) 2x6
H7	(2) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(1) 2x6	(2) 2x6
H8	(2) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(1) 2x6	(3) 2x6
H9	(3) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(2) 2x6 OR (2) 2x8	(1) 2x6 OR (1) 2x8
H10	(3) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(2) 2x6	(2) 2x6
H11	(3) 1$\frac{3}{4}$x9$\frac{1}{4}$ LVL	(1) 1$\frac{3}{4}$x5$\frac{1}{2}$ LSL	(5) 1$\frac{3}{4}$x5$\frac{1}{2}$ LSL
H12	(3) 1$\frac{3}{4}$x11$\frac{7}{8}$ LVL	(2) 2x8	(4) 2x8
H13	(3) 1$\frac{3}{4}$x14 LVL	(3) 2x6	(3) 2x6
H14	(3) 1$\frac{3}{4}$x16 LVL	(3) 2x6	(3) 2x6
H15	(3) 1$\frac{3}{4}$x14 LVL	(3) 2x8	(2) 2x8

NOTE: 1) SEE DETAIL 1/S5.0
2) KING/BEARING STUD SIZE TO MATCH WALL FRAMING

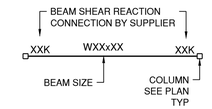
SHEAR WALL SCHEDULE

MARK	DESCRIPTION	FASTENING			END POST	HOLDOWN ANCHOR EACH END UNO	NOTES
		SIZE	EDGE	INTERIOR			
SW1	$\frac{5}{8}$" GYPSUM EACH FACE	#6 TYPE S OR W DRYWALL SCREWS	4" OC	4" OC	(2) 2x6	NONE	-
SW2	$\frac{5}{8}$" GYPSUM BLOCK PANEL EDGES	#6 TYPE S OR W DRYWALL SCREWS	4" OC	4" OC	(2) 2x6	NONE	BLOCK PANEL EDGES
SW3	$\frac{7}{16}$" APA RATED PLYWOOD OR OSB	8d NAILS	4" OC	12" OC	(2) 2x6	NONE	-
SW4	$\frac{7}{16}$" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	12" OC	(2) 2x6	NONE	BLOCK PANEL EDGES SEE 24/S5.0 FOR BASE OF WALL CONNECTION TO FLOOR TRUSSES
SW5	$\frac{7}{16}$" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	12" OC	(2) 2x6	SIMPSON MSTC40 w/ (10) 0.148"Øx3$\frac{1}{2}$" NAILS EACH SIDE OF FLOOR SYSTEM (20 NAILS TOTAL) SEE 21/S5.0	SEE 1/S5.1 FOR STRAPPING ABOVE & BELOW OPENINGS BLOCK PANEL EDGES
SW6	$\frac{7}{16}$" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	4" OC	12" OC	(2) 2x6	SIMPSON HDU4 w/ $\frac{5}{8}$"Ø THREADED ROD & SIMPSON SET-3G ADHESIVE EACH END AND AT CENTER OF PANEL (12" EMBED) SEE 20/S4.0	BLOCK PANEL EDGES
SW7	$\frac{7}{16}$" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	3" OC	(2) 2x6	SIMPSON HDU4 w/ $\frac{5}{8}$"Ø THREADED ROD & SIMPSON SET-3G ADHESIVE (12" EMBED @ FND WALL, 8" EMBED @ THICKENED SLAB) SEE 20/S4.0	BLOCK PANEL EDGES

NOTE: 1) SHEAR WALLS ARE TO BE FRAMED WITH 2x4 OR 2x6 STUDS AT 16" OC
2) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL UL & STC REQUIREMENTS
3) BLOCK ALL PANEL EDGES AT SHEARWALLS

FRAMING PLAN LEGEND:

- WOOD FRAME WALL
- HEADER AT DOOR/WINDOW OPENING - SEE SCHEDULE
- SHEARWALL - SEE SCHEDULE
- HOLDOWN - SEE SHEARWALL SCHEDULE



COLUMN SCHEDULE

MARK	SIZE	BASE PLATE SIZE		ANCHOR BOLTS	
		SIZE	TYPE	DIAMETER	TYPE
C1	HSS5x5x$\frac{1}{2}$	PL $\frac{3}{4}$"x11"x0'-11"	BP-1	(4) $\frac{3}{4}$"Ø AB	AB-1
C2	HSS5x5x$\frac{1}{2}$	PL 1"x11"x1'-0"	BP-2	(4) $\frac{3}{4}$"Ø AB	AB-1
C3	HSS6x4x$\frac{1}{2}$	PL 1"x11"x1'-2"	BP-3	(4) $\frac{3}{4}$"Ø AB	AB-2
C4	HSS6x4x$\frac{1}{2}$	PL 1"x11"x1'-2"	BP-4	(4) $\frac{3}{4}$"Ø AB	AB-2

NOTES: 1) SEE 4/S5.1 FOR BASE PLATE TYPES
2) SEE 24/S4.0 FOR ANCHOR ROD TYPES

Client Information

BHH Partners Planners/Architects
PO Box 185
650 3rd Ave SE Suite 10
Perham, MN 56573

Revision	Description	Date

Drawing Title

FLOOR/LOW ROOF FRAMING PLAN

SCHIK ENGINEERING, LLC
PO Box 158
17 E Centennial 84 Dr Ste C
New York Mills, MN 56567
Ph: 218.385.2044
Fax: 218.385.2048

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed:

Print Name: Jason Schik

Date: 09-24-21 License Number: 47529

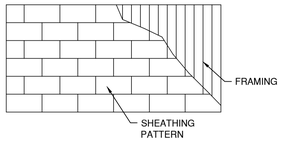
Project Title

S & Z Building
105 East Main Street
Vergas, MN

Project Number		Sheet No.
21.043		S3.0
Drawn By: KHH	Checked: JPS	
Date: 09-24-21		

FRAMING NOTES:

1. EXTERIOR WALLS & INTERIOR BEARING WALLS UNO (8'-2⅝" TALL WALLS)
   - 2x6 SPF NO. 2 GRADE STUDS AT 16" ON CENTER
   - (2) 2x6 SPF NO. 2 GRADE TOP PLATE
   - (2) 2x6 SPF NO. 2 GRADE BTM PLATE
2. ALL DOUBLE TOP PLATES ARE TO BE CONTINUOUS WITH STAGGERED SPLICES. TOP PLATES ARE TO BE SPLICED AT STUD LOCATIONS. SEE 2/S5.0.
3. ALL FRAMING MEMBERS ARE TO BE SPF NO. 2 GRADE UNLESS NOTED OTHERWISE.
4. GANG/BEARING STUDS ARE TO BE FASTENED TOGETHER WITH 16d NAILS AT 6" ON CENTER STAGGERED.
5. GIRDER TRUSSES ARE TO BEAR ON A MINIMUM OF (3) 2x6 BEARING STUDS UNLESS NOTED OTHERWISE.
6. EXTERIOR WALLS ARE TO BE SHEATHED WITH ½" MIN APA RATED PLYWOOD OR OSB. FASTEN PANELS WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
7. VERIFY THE LOCATION OF ALL WINDOW AND DOOR OPENINGS WITH THE ARCHITECTURAL DRAWINGS.
8. ALL TRUSS BEARING ELEVATIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
9. SEE 2/S5.1 FOR SNOW DRIFT DIAGRAM.
10. ALL STEEL BEAM SHEAR CONNECTIONS ARE TO BE DESIGNED BY THE STEEL SUPPLIER FOR THE SERVICE (WORKING) LOAD/REACTIONS NOTED ON THE PLAN. SEE 3/S5.1 FOR TYPICAL SHEAR CONNECTION DETAIL.
11. ROOF TRUSS SLOPE IS NOT TO BE LESS THAN ¼" PER FOOT. SEE ARCHITECTURAL FOR ROOF SLOPE.
12. THE ROOF IS TO BE SHEATHED WITH ½" MINIMUM APA RATED 48/24 MIN PLYWOOD OR OSB AND IS TO BE FASTENED WITH 10d NAILS AT 4" OC AT ALL SUPPORTS. ALL SHEATHING IS TO SPAN A MINIMUM OF (3) TRUSS SPACES.



KEY NOTES:

1. PRE-ENGINEERED ROOF TRUSSES @ 24" OC MAX
2. ROOF HATCH OPENING - SEE ARCH FOR SIZE & LOCATION
3. AIR CONDITIONING UNIT - DESIGN TRUSS FOR 400 LB UNIT LOAD VERIFY SIZE & LOCATION w/ MECHANICAL - PROVIDE 2x6 BLOCKING BELOW PERIMETER OF UNIT w/ HANGER EACH END TO TRUSS
4. MAU - DESIGN TRUSSES FOR 2500 LB LOAD - PROVIDE 2x6 BLOCKING BELOW PERIMETER OF UNIT w/ HANGER EACH END TO ROOF TRUSS - VERIFY SIZE & LOCATION w/ MECHANICAL
5. PROVIDE ROOF TRUSS DIRECTLY ABOVE SHEAR WALL
6. 2x8 SPF SELECT STRUCTURAL STUDS @ 16" OC w/ 2x8 SPF NO. 2 TOP PLATE & 2x8 SYP NO. 2 TREATED SILL PLATE
7. HANGER BEAM TO ROOF TRUSS/BEAM - HANGER BY TRUSS SUPPLIER TYPICAL AT ROOF HATCH

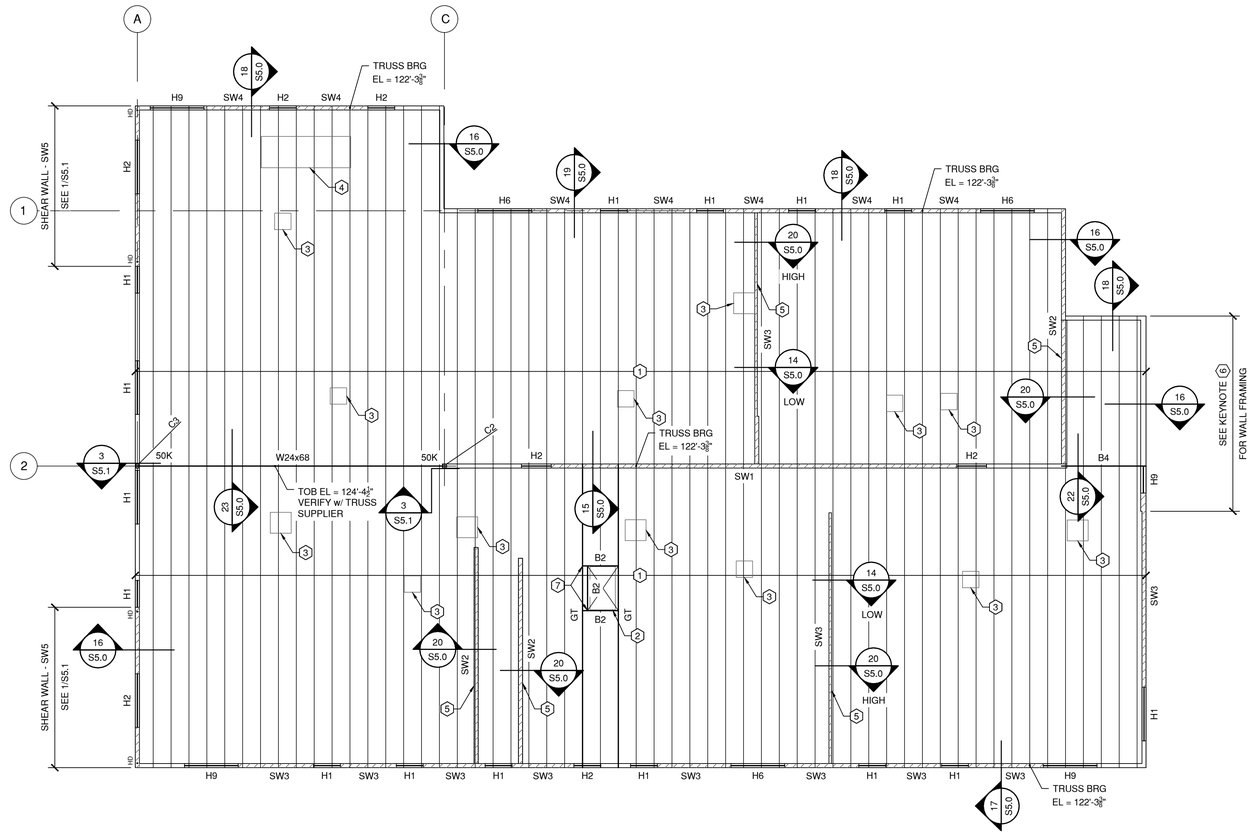
BEAM SCHEDULE

MARK	SIZE	BRG STUDS UNO
B1	(2) 2x10	(2) 2x6
B2	(3) 2x10	(2) 2x6
B3	(3) 1¾x9¼ LVL	(3) 2x6
B4	(3) 1¾x11⅞ LVL	(3) 2x6
B5	(3) 1¾x24 LVL	(6) 2x6

HEADER SCHEDULE

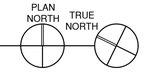
MARK	SIZE	BRG STUDS UNO	KING STUDS
H1	(2) 2x10	(1) 2x6	(1) 2x6
H2	(3) 2x10	(1) 2x6	(1) 2x6
H3	(3) 2x10	(1) 2x6	(2) 2x6
H4	(3) 2x10	(1) 2x8	(2) 2x8
H5	(2) 1¾x9¼ LVL	(1) 2x8	(3) 2x8
H6	(2) 1¾x9¼ LVL	(1) 2x6	(1) 2x6
H7	(2) 1¾x9¼ LVL	(1) 2x6	(2) 2x6
H8	(2) 1¾x9¼ LVL	(1) 2x6	(3) 2x6
H9	(3) 1¾x9¼ LVL	(2) 2x6 OR (2) 2x8	(1) 2x6 OR (1) 2x8
H10	(3) 1¾x9¼ LVL	(2) 2x6	(2) 2x6
H11	(3) 1¾x9¼ LVL	(1) 1¾x5¼ LSL	(5) 1¾x5¼ LSL
H12	(3) 1¾x11⅞ LVL	(2) 2x8	(4) 2x8
H13	(3) 1¾x14 LVL	(3) 2x6	(3) 2x6
H14	(3) 1¾x16 LVL	(3) 2x6	(3) 2x6
H15	(3) 1¾x14 LVL	(3) 2x8	(2) 2x8

NOTE: 1) SEE DETAIL 1/S5.0
2) KING/BEARING STUD SIZE TO MATCH WALL FRAMING



UPPER ROOF FRAMING PLAN

SCALE ⅛" = 1'-0"



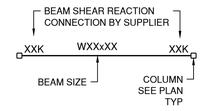
SHEAR WALL SCHEDULE

MARK	DESCRIPTION	FASTENING			END POST	HOLDOWN ANCHOR EACH END UNO	NOTES
		SIZE	EDGE	INTERIOR			
SW1	⅝" GYPSUM EACH FACE	#6 TYPE S OR W DRYWALL SCREWS	4" OC	4" OC	(2) 2x6	NONE	-
SW2	⅝" GYPSUM BLOCK PANEL EDGES	#6 TYPE S OR W DRYWALL SCREWS	4" OC	4" OC	(2) 2x6	NONE	BLOCK PANEL EDGES
SW3	½" APA RATED PLYWOOD OR OSB	8d NAILS	4" OC	12" OC	(2) 2x6	NONE	-
SW4	½" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	12" OC	(2) 2x6	NONE	BLOCK PANEL EDGES SEE 24/S5.0 FOR BASE OF WALL CONNECTION TO FLOOR TRUSSES
SW5	½" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	12" OC	(2) 2x6	SIMPSON MSTC40 w/ (10) 0.148"Øx3½" NAILS EACH SIDE OF FLOOR SYSTEM (20 NAILS TOTAL) SEE 21/S5.0	SEE 1/S5.1 FOR STRAPPING ABOVE & BELOW OPENINGS BLOCK PANEL EDGES
SW6	½" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	4" OC	12" OC	(2) 2x6	SIMPSON HDU4 w/ ⅝"Ø THREADED ROD & SIMPSON SET-3G ADHESIVE EACH END AND AT CENTER OF PANEL (12" EMBED) SEE 20/S4.0	BLOCK PANEL EDGES
SW7	½" APA RATED PLYWOOD OR OSB BLOCK PANEL EDGES	8d NAILS	3" OC	3" OC	(2) 2x6	SIMPSON HDU4 w/ ⅝"Ø THREADED ROD & SIMPSON SET-3G ADHESIVE (12" EMBED @ FND WALL, 8" EMBED @ THICKENED SLAB) SEE 20/S4.0	BLOCK PANEL EDGES

NOTE: 1) SHEAR WALLS ARE TO BE FRAMED WITH 2x4 OR 2x6 STUDS AT 16" OC
2) SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL UL & STC REQUIREMENTS
3) BLOCK ALL PANEL EDGES AT SHEARWALLS

FRAMING PLAN LEGEND:

- WOOD FRAME WALL
- HEADER AT DOOR/WINDOW OPENING - SEE SCHEDULE
- SHEARWALL - SEE SCHEDULE
- HOLDOWN - SEE SHEARWALL SCHEDULE



COLUMN SCHEDULE

MARK	SIZE	BASE PLATE SIZE		ANCHOR BOLTS	
		SIZE	TYPE	DIAMETER	TYPE
C1	HSS5x5x⅜	PL ¾"x11"x0'-11"	BP-1	(4) ¾"Ø AB	AB-1
C2	HSS5x5x⅜	PL 1"x11"x1'-0"	BP-2	(4) ¾"Ø AB	AB-1
C3	HSS6x4x¼	PL 1"x11"x1'-2"	BP-3	(4) ¾"Ø AB	AB-2
C4	HSS6x4x¼	PL 1"x11"x1'-2"	BP-4	(4) ¾"Ø AB	AB-2

NOTES: 1) SEE 4/S5.1 FOR BASE PLATE TYPES
2) SEE 24/S4.0 FOR ANCHOR ROD TYPES

Client Information

BHH Partners Planners/Architects
PO Box 185
650 3rd Ave SE Suite 10
Perham, MN 56573

Revision	Description	Date

Drawing Title

UPPER ROOF FRAMING PLAN

SCHIK
ENGINEERING, LLC
PO Box 158
17 E Centennial 84 Dr Ste C
New York Mills, MN 56567
Ph: 218.385.2044
Fax: 218.385.2048

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed: _____

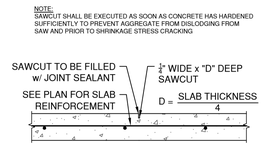
Print Name: Jason Schik

Date: 09-29-21 License Number: 47529

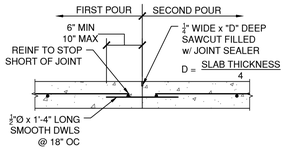
Project Title

S & Z Building
105 East Main Street
Vergas, MN

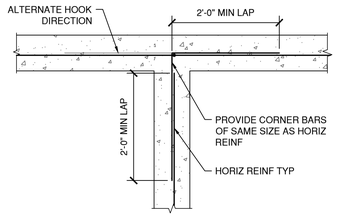
Project Number		Sheet No.
21.043		S3.1
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		



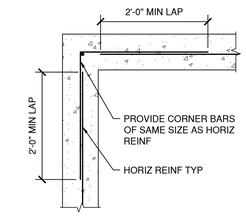
1 S4.0 **DETAIL** CONTROL JOINT — SCALE: 3/4"=1'-0"



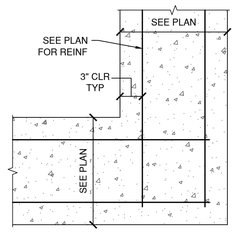
2 S4.0 **DETAIL** CONSTRUCTION JOINT — SCALE: 3/4"=1'-0"



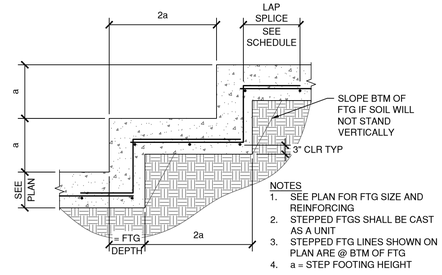
3 S4.0 **DETAIL** INTERSECTION REINF — SCALE: 3/4"=1'-0"



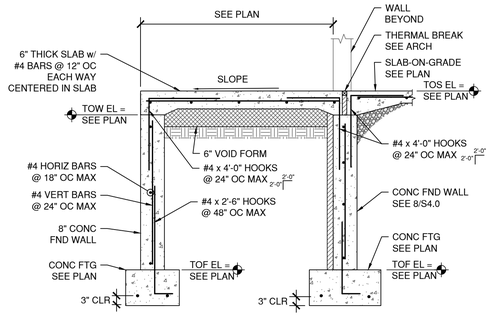
4 S4.0 **DETAIL** CORNER REINF — SCALE: 3/4"=1'-0"



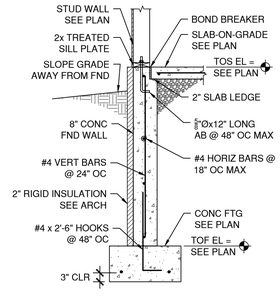
5 S4.0 **DETAIL** FTG CORNER REINF — SCALE: 3/4"=1'-0"



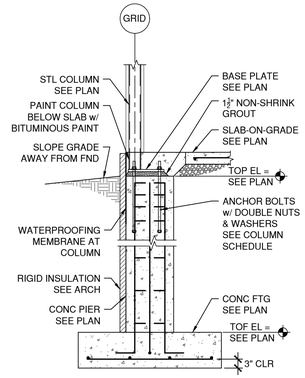
6 S4.0 **DETAIL** STEP FTG — SCALE: 1/2"=1'-0"



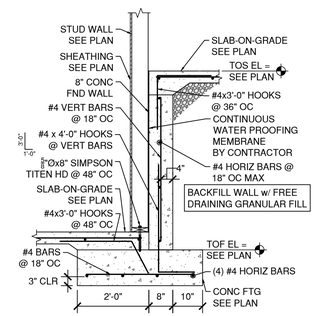
7 S4.0 **SECTION** STOOP — SCALE: 1/2"=1'-0"



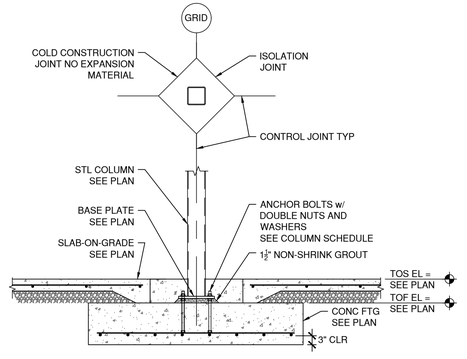
8 S4.0 **SECTION** 8" FND WALL — SCALE: 1/2"=1'-0"



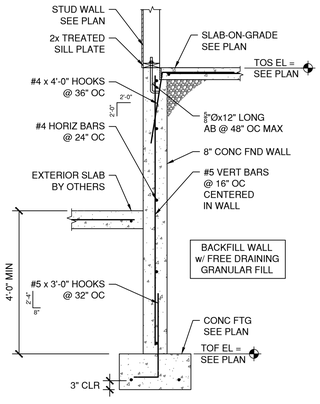
9 S4.0 **SECTION** PIER — SCALE: 1/2"=1'-0"



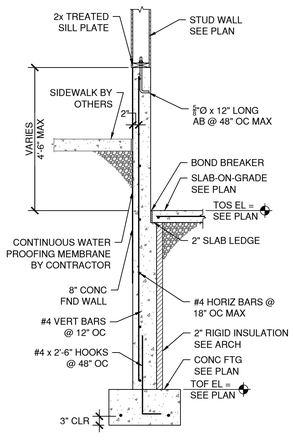
10 S4.0 **SECTION** INT FND WALL — SCALE: 1/2"=1'-0"



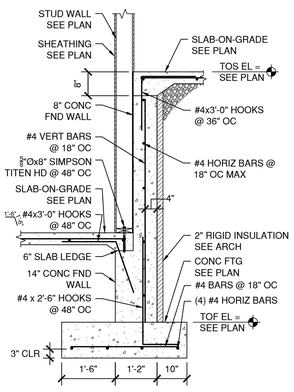
11 S4.0 **SECTION** INT SPREAD FTG — SCALE: 1/2"=1'-0"



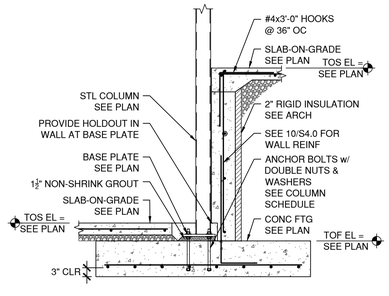
12 S4.0 **SECTION** INT FND WALL — SCALE: 1/2"=1'-0"



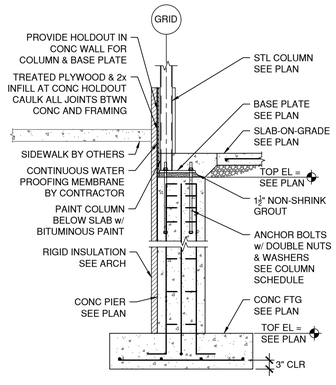
13 S4.0 **SECTION** 8" FND WALL — SCALE: 1/2"=1'-0"



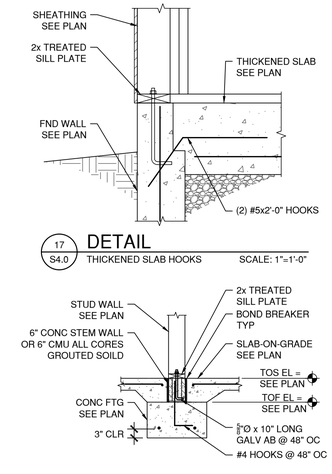
14 S4.0 **SECTION** INT FND WALL — SCALE: 1/2"=1'-0"



15 S4.0 **SECTION** INT FND WALL — SCALE: 1/2"=1'-0"

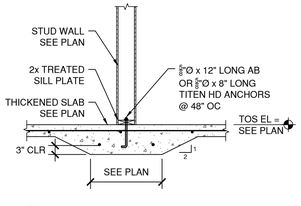


16 S4.0 **SECTION** PIER - GRID A/1 — SCALE: 1/2"=1'-0"

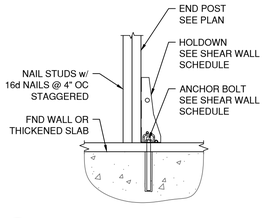


17 S4.0 **DETAIL** THICKENED SLAB HOOKS — SCALE: 1"=1'-0"

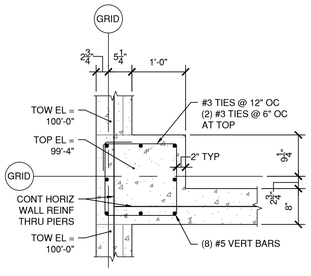
18 S4.0 **SECTION** INT STRIP FTG — SCALE: 1/2"=1'-0"



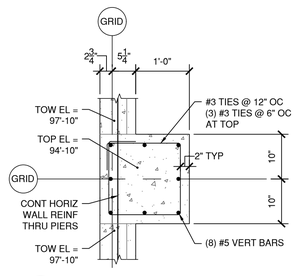
19 S4.0 **SECTION** THICKENED SLAB — SCALE: 1/2"=1'-0"



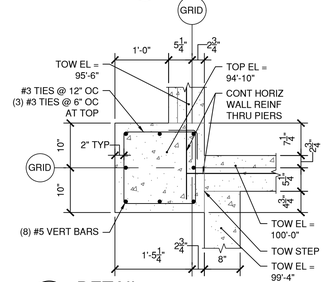
20 S4.0 **DETAIL** HOLDOWN — SCALE: 1"=1'-0"



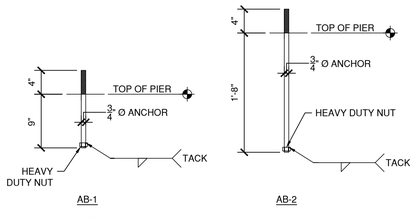
21 S4.0 **DETAIL** PIER - P1 — SCALE: 3/4"=1'-0"



22 S4.0 **DETAIL** PIER - P2 — SCALE: 3/4"=1'-0"



23 S4.0 **DETAIL** PIER - P3 — SCALE: 3/4"=1'-0"



24 S4.0 **DETAIL** ANCHOR BOLTS — SCALE: 1"=1'-0"

Client Information

BHH Partners Planners/Architects
PO Box 185
650 3rd Ave SE Suite 10
Perham, MN 56573

Revision	Description	Date

Drawing Title

FOUNDATION SECTIONS & DETAILS

SCHIK
ENGINEERING, LLC
PO Box 158
17 E Centennial 84 Dr Ste C
New York Mills, MN 56567
Ph: 218.385.2044
Fax: 218.385.2048

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed: _____

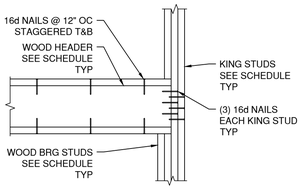
Print Name: Jason Schik

Date: 09-29-21 License Number: 47529

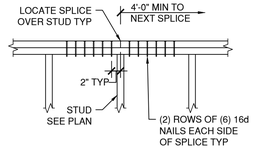
Project Title

S & Z Building
105 East Main Street
Vergas, MN

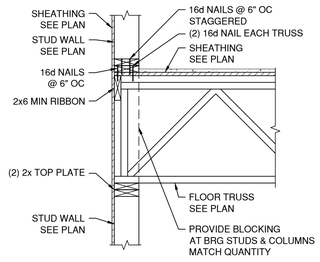
Project Number		Sheet No.
21.043		S4.0
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		



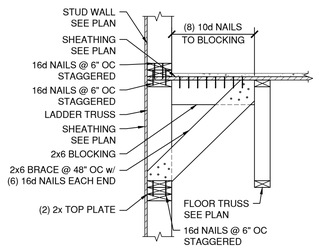
1 S5.0 **DETAIL** HEADER SCALE: 3/4"=1'-0"



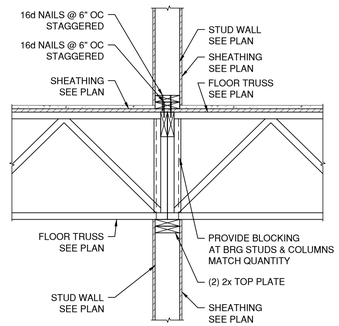
2 S5.0 **DETAIL** TOP PLATE SPLICE SCALE: 3/4"=1'-0"



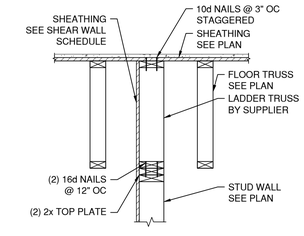
3 S5.0 **SECTION** FLOOR TRUSS BRG SCALE: 3/4"=1'-0"



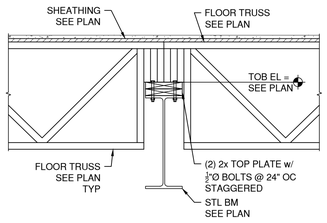
4 S5.0 **SECTION** FLOOR TRUSS NON-BRG SCALE: 3/4"=1'-0"



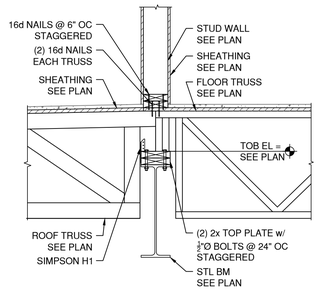
5 S5.0 **SECTION** FLOOR TRUSS BRG SCALE: 3/4"=1'-0"



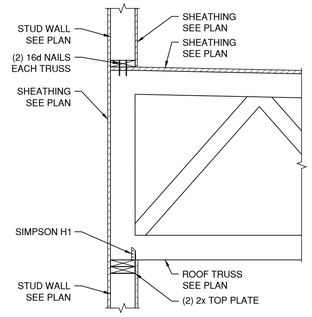
6 S5.0 **SECTION** FLOOR TRUSS NON-BRG SCALE: 3/4"=1'-0"



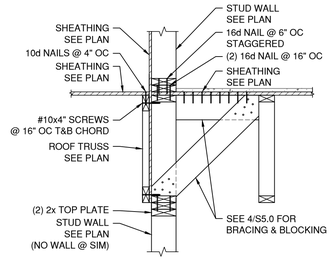
7 S5.0 **SECTION** FLOOR TRUSS BRG @ BM SCALE: 3/4"=1'-0"



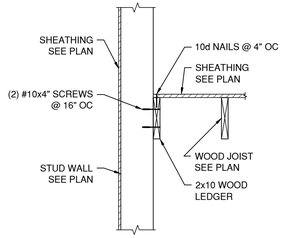
8 S5.0 **SECTION** ROOF/FLOOR TRUSS BRG @ BM SCALE: 3/4"=1'-0"



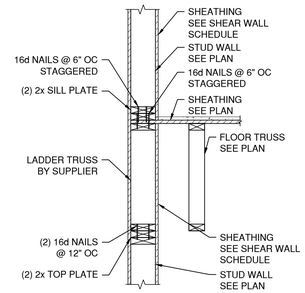
9 S5.0 **SECTION** ROOF/FLOOR TRUSS BRG SCALE: 3/4"=1'-0"



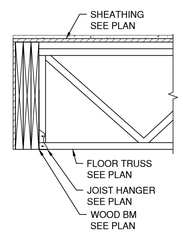
10 S5.0 **SECTION** FLOOR TRUSS BRACING SCALE: 3/4"=1'-0"



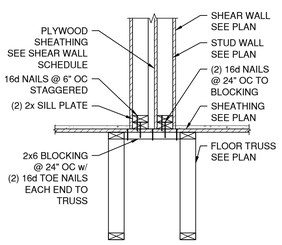
11 S5.0 **SECTION** FLOOR JOIST SCALE: 3/4"=1'-0"



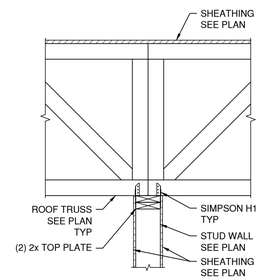
12 S5.0 **SECTION** FLOOR JOIST NON-BRG SCALE: 3/4"=1'-0"



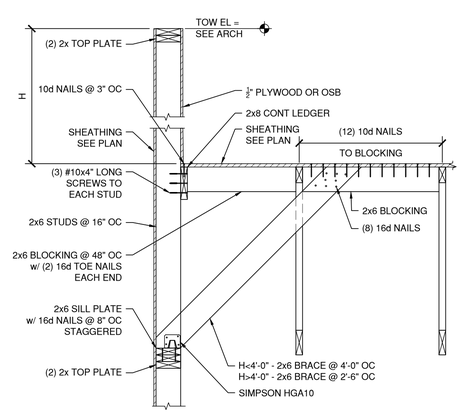
13 S5.0 **SECTION** FLOOR TRUSS BRG @ BM SCALE: 3/4"=1'-0"



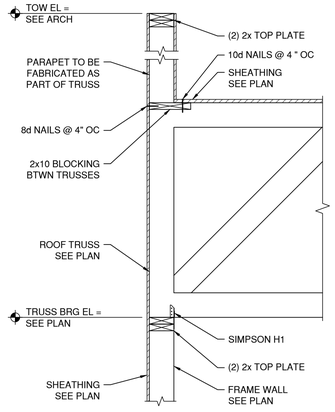
14 S5.0 **SECTION** SHEAR WALL SCALE: 3/4"=1'-0"



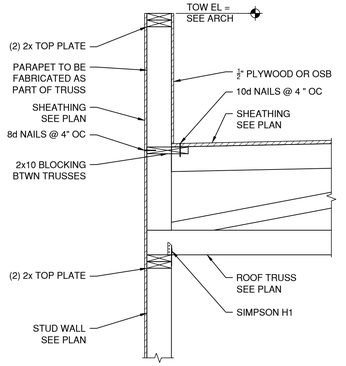
15 S5.0 **SECTION** ROOF TRUSS BRG SCALE: 3/4"=1'-0"



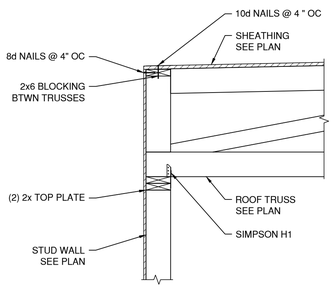
16 S5.0 **SECTION** ROOF TRUSS BRACING SCALE: 3/4"=1'-0"



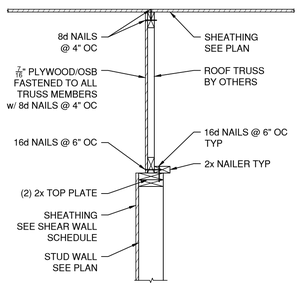
17 S5.0 **SECTION** ROOF TRUSS BRG SCALE: 3/4"=1'-0"



18 S5.0 **SECTION** ROOF TRUSS BRG SCALE: 3/4"=1'-0"

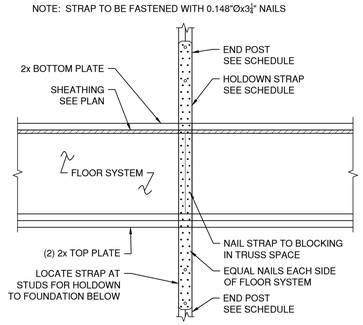


19 S5.0 **SECTION** ROOF TRUSS BRG SCALE: 3/4"=1'-0"

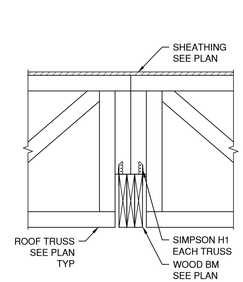


20 S5.0 **SECTION** SHEAR WALL SCALE: 3/4"=1'-0"

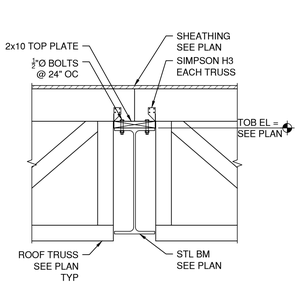
NOTE: STRAP TO BE FASTENED WITH 0.148"Øx3¼" NAILS



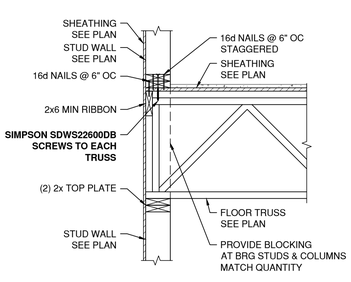
21 S5.0 **DETAIL** HOLDOWN STRAP SCALE: 3/4"=1'-0"



22 S5.0 **SECTION** ROOF TRUSS BRG @ BM SCALE: 3/4"=1'-0"



23 S5.0 **SECTION** ROOF TRUSS BRG @ BM SCALE: 3/4"=1'-0"



24 S5.0 **SECTION** WALL/TRUSS CONNECTION - SW4 SCALE: 3/4"=1'-0"

Client Information

BHH Partners Planners/Architects
PO Box 185
650 3rd Ave SE Suite 10
Perham, MN 56573

Revision	Description	Date

Drawing Title

FRAMING SECTIONS & DETAILS

SCHIK
ENGINEERING, LLC
PO Box 158
17 E Centennial 84 Dr Ste C
New York Mills, MN 56567
Ph: 218.385.2044
Fax: 218.385.2048

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed: _____

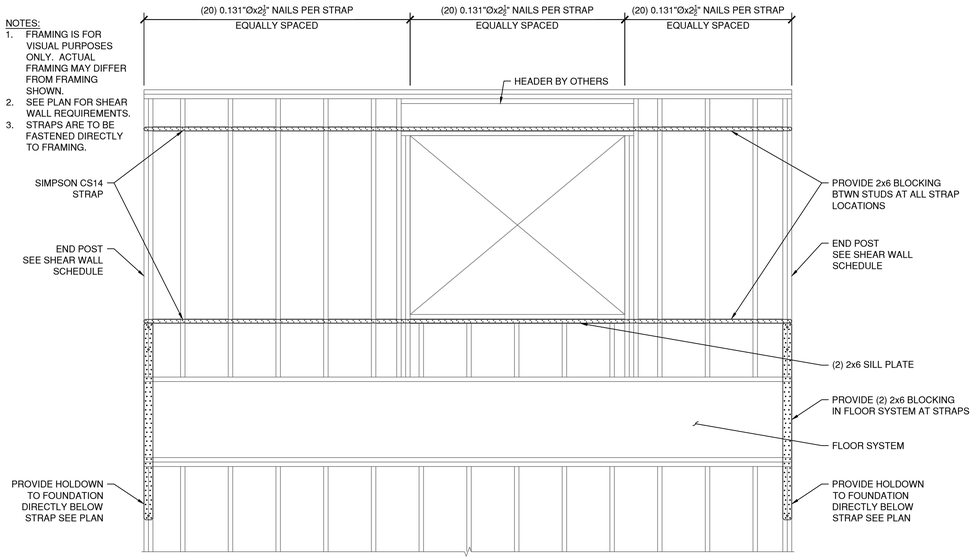
Print Name: Jason Schik

Date: 09-29-21 License Number: 47529

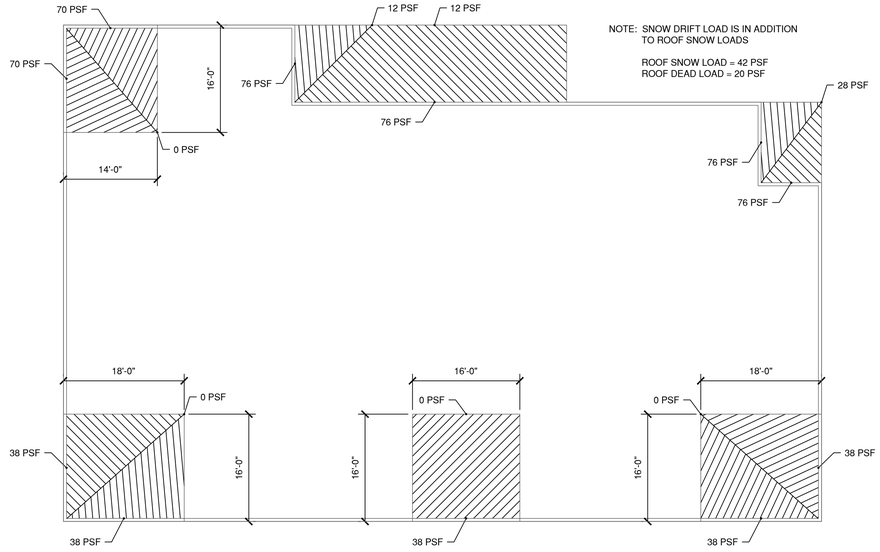
Project Title

S & Z Building
105 East Main Street
Vergas, MN

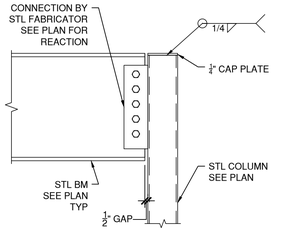
Project Number		Sheet No.
21.043		S5.0
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		



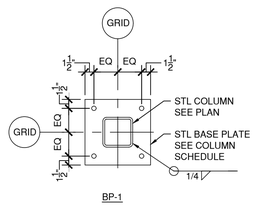
1 S5.1 **ELEVATION**
SHEAR WALL - SW5 SCALE: 1/2"=1'-0"

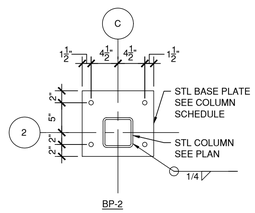


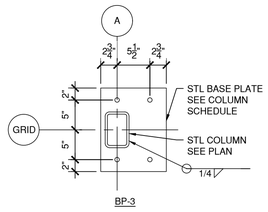
2 S5.1 **SNOW DRIFT DIAGRAM**
SCALE: 3/32"=1'-0"

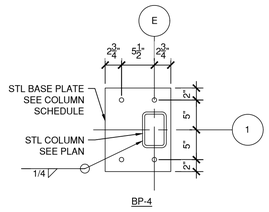


3 S5.1 **DETAIL**
SHEAR CONNECTION SCALE: 1"=1'-0"

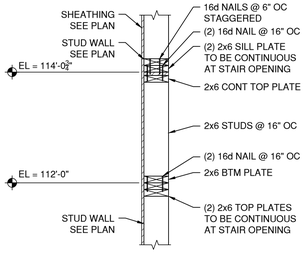




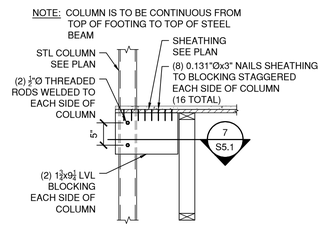




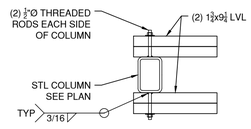
4 S5.1 **DETAIL**
BASE PLATES SCALE: 1"=1'-0"



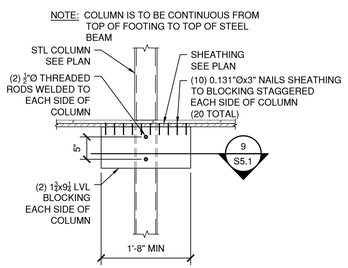
5 S5.1 **SECTION**
WALL @ STAIR A SCALE: 3/4"=1'-0"



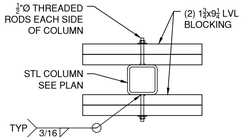
6 S5.1 **SECTION**
BRACING @ STL COLUMN - A/2 SCALE: 3/4"=1'-0"



7 S5.1 **DETAIL**
BRACING @ STL COLUMN - A/2 SCALE: 1"=1'-0"



8 S5.1 **SECTION**
BRACING @ STL COLUMN - C/2 SCALE: 3/4"=1'-0"



9 S5.1 **DETAIL**
BRACING @ STL COLUMN - C/2 SCALE: 1"=1'-0"

Client Information

BHH Partners Planners/Architects
PO Box 185
650 3rd Ave SE Suite 10
Perham, MN 56573

Revision	Description	Date

Drawing Title

FRAMING SECTIONS & DETAILS

SCHIK
ENGINEERING, LLC
PO Box 158
17 E Centennial 84 Dr Ste C
New York Mills, MN 56567
Ph: 218.385.2044
Fax: 218.385.2048

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signed: Jason Schik

Print Name: Jason Schik

Date: 09-29-21 License Number: 47529

Project Title

S & Z Building
105 East Main Street
Vergas, MN

Project Number		Sheet No.
21.043		S5.1
Drawn By: KHH	Checked: JPS	
Date: 09-29-21		