



11/14/2024

MILITARY DEPARTMENT
STATE of NEBRASKA
LINCOLN, NEBRASKA

NEBRASKA ARMY NATIONAL GUARD
Wahoo Readiness Center Addition

At

338 W. 15th Street, Wahoo, NE 68066

For the

MILITARY DEPARTMENT
STATE of NEBRASKA
Lincoln, Nebraska

PROJECT NO. 31030344

A D D E N D U M N O . 1

The original specifications and drawings on the STATE OF NEBRASKA REQUEST for PROPOSAL FORM for the project noted above are amended as noted in this Addendum No. 1.

Receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

NOTE TO ALL PLANHOLDERS: Please insert this Addendum into your copy of the Contract Documents for the above named project.

The following changes to the Contract Documents are issued by the CFMO-CMB and shall have the same force and effect as though a part of the original issue.

THE RECEIPT DATE, TIME and LOCATION of the BID PROPOSAL submission HAS NOT CHANGED.

General

ITEM NO:

1. Attached is the Meeting Agenda for the Pre-Bid meeting held on site on 11 November 2024.
2. Submittal exchange will be used and will be paid for by the general contractor
3. All testing is to be done by and paid for by general contractor
4. The Build America, Buy American Act is applicable for this project
5. General contractor must provide adequate notice with date, time and estimated duration of any existing utility shutdown or downtime.
6. There is no known asbestos or other hazardous materials in the existing building
7. All openings made in existing building will need to be secured during construction
8. The existing floor slab that will be removed for the new latrine is believed to be 4" thick, but has not been confirmed
9. Per 017419 CONSTRUCTION WASTE MANAGEMENT, weight tickets must be provided for anything that is sent to the landfill. The intent of this is to recycle as much as possible, and reduce waste.
10. All roof decks are flat with tapered insulation to create the roof slope.



Approved Substitution Requests

ITEM NO:

1. Locker manufacturers
 - a. Elite Storage Products, LLC – Lockers MFG All Welded Lockers and Lockers MFG TA-50
 - b. Midwest Storage Solutions, Inc. – Spacesaver TA-50 Lockers
2. Lighting Controls:
 - a. Current NXLC
3. Light Fixtures:
 - a. Type 1A, 1B, 1C – Elite Lighting
 - b. Type 2, 2E, 3A, 3B, 4, 4E – Elite Lighting
 - c. Type 5 – Elite Lighting
 - d. Type 13 – OmniLight
 - e. Type X1, X2 – Envoy Lighting
4. Registers, Grilles and Diffusers
 - a. Nailor Industries

Project Manual

ITEM NO:

1. Section 012300 ALTERNATES
 - a. Alternate No. 2 Alternate should read “Recessed wall area with steel plate, wood trim, tackable surface, and lighting to be installed. Existing lighting to be removed, new lighting and lighting control system to be installed.”
2. Section 084313 ALUMINUM-FRAMED STOREFRONTS
 - a. Item 2.02 A.1. Remove “for sidelights and 1 ½ inch for glazing in door.” so that the item reads as follows:
 - i. Glazing Rabbet: For 1 1/8 inch insulating glazing.
3. Section 088000 GLAZING
 - i. 2.03.A.14 - Type IG-1 is to be revised to the following:
 1. Total Unit Thickness: 1 1/8”
 2. Outboard Lite: 3/16” Fully tempered float glass with SunGuard SNX 62/67 on #2 surface.
 3. Interspace Content: Air (1/2”)
 4. Inboard Lite: Fully tempered float glass, 5/16” total thickness
 - a. Clear laminated glass with two plies of fully tempered float glass
 - b. Glass makeup – 3/16” clear tempered – 0.060 inch PVB interlayer, - 3/16” clear tempered
 - i. Interlayer Color: 80% Opacity White
 - ii. 2.03.A.15 – Type IG-2 is to be revised to the following:
 1. Total Unit Thickness: 1 3/8”
 2. Outboard Lite: 2 Layers of 3/16” thick glass of the type specified below
 - a. Laminated Glass: Fully tempered float glass, 3/16” thick each ply
 - b. Interlayer: 0.060” PVB – 80% Opacity White
 - c. Low E Coating: SunGuard SNX 62/67 on #2 surface.
 3. Interspace Content: Air (1/2”)
 4. Inboard Lite: 2 layers of 3/16” thick float glass of the type specified below
 - a. Laminated Glass: Fully tempered float glass, 3/16” thick each ply
 - b. Interlayer: 0.060 Ionoplast

Drawings

ITEM NO:

1. Sheet G1.0 COVER SHEET
 - a. Update alternates on cover sheet
2. Sheet C2.0 DEMOLITION PLAN



- a. For removal of existing water services, the intent is to only remove the piping or its associated appurtenances when in conflict with the proposed improvements. Abandonment of the piping to remain shall include capping or plugging the end of the pipe.
- 3. Sheet C3.0 SITE PLAN
 - a. Replace Sheet C3.0 with attached sheet
 - b. Added clarification to general note 1
 - c. Added site key note "T"
- 4. Sheet 5.0 STORM SEWER PLAN AND PROFILE
 - a. Rotate north arrow 90 degrees to the left
- 5. Sheet A0.1 WALL, FLOOR AND ROOF TYPES
 - a. Floor Type FL-1 has been updated to show 12" of structural fill below all slab on grade concrete floors.
- 6. Sheet A1.1 FIRST FLOOR PLAN
 - a. FIRST FLOOR PLAN: Alternate bid item number corrected.
- 7. Sheet A8.2 INTERIOR ELEVATIONS & DETAILS
 - a. Detail 7: Alternate bid item number corrected.
- 8. Sheet A9.1 FINISH PLANS
 - a. Detail 1: Alternate bid item number corrected.
- 9. Sheet M1.1 First Floor Mechanical Plans
 - a. Sheet note #20, changed ABI #2 to ABI #3.
 - b. Added Humidity sensor in Men's Latrine 108
- 10. Sheet E2.1 First Floor Power Plan
 - a. Removed receptacle serving AV Rack due to AV System revisions.
 - b. Added Note 9 for wall box coordination.
- 11. Sheet E3.1 First Floor Technology Plan
 - a. Revised AV System requirements, including but not limited to: removing the AV Rack, revising cabling, revising AV equipment, and revising box requirements and locations.
- 12. Sheet E4.1 Technology Details
 - a. Revised AV System requirements and specifications.
 - b. Removed AV Rack Elevation.
 - c. Revised Sheet Note order due to AV System revisions.
- 13. Sheet E5.0 Electrical Schedules
 - a. Removed WB1 from Floor and Wall Box Schedule, WB1 requirements have changed and are now specified on Sheet E3.1.

THIS ADDENDUM SHALL BE ATTACHED TO AND MADE A PART OF THE DRAWINGS AND SPECIFICATIONS AND SHALL BE ACKNOWLEDGED WITH THE BIDDER'S PROPOSAL.



MICHAEL E. DAILY
BVH Architecture



CRAIG W. STRONG
Major General, The Adjutant General

End of Addendum No. 1



PRE-BID CONFERENCE
Wahoo Readiness Center Addition, PN 31030344
Wahoo RC, 338 W. 15th Street, Wahoo, NE 68066

1000 Hours 7 Nov 2024

INTRODUCTORY REMARKS

The purpose of this conference is to answer any Administrative or Technical questions you may have and to provide you with an opportunity to look at the Project Site. Please make sure to sign in before you leave if you haven't already.

Mr. James Rasmussen	Business Manager	402-309-8457	james.t.rasmussen3.civ@army.mil
Mr. Robert DeMoss	Contracts Officer	402-309-8473	robert.w.demoss2.nfg@army.mil
Mr. Dustin Robinson	Project Manager	402-309-8463	dustin.t.robinson2.nfg@army.mil
Mr. Michael Daily, AIA	BVH Architecture	402-413-6721	mdaily@bvh.com
SFC Aaron Smith	Wahoo RC POC	402-309-8825	aaron.t.smith68.mil@army.mil

ADDENDUM

Everyone receiving Plans and Specs and or attending the Pre-Bid Meeting will receive an addendum. Deadline for clarification of Plans & Specifications that may require an Addendum needs to be submitted to the **Project Architect** by 1300 on 13 November 2024. **Addendums** will be posted on the A&D Technical Supply Plan room website (Lincoln Office) and in-turn at the other Plan houses.

BID FORM

On completing the Bid Proposal Form contained in the Bid Packet (Section P1 of 4):

1. Please fill out Bid Form completely for all applicable items.
2. Sign the Bid Form in **BLUE INK**. Bids received without original signature or signed in pencil will not be accepted.
3. Return all (4) pages of the Bid Form, Pages P1-P4.
4. Include Bid Security of 5% of the total Bid Amount on the project. THIS WILL BE REVIEWED AND MAY CHANGE VIA ADDENDUM
5. On the Bid Form, there is a Total Base Bid Amount Four (4) Alternative Bid Items (ABIs) and (0) Unit Bid Items (UBIs) and
6. Be sure to enter your Bid Proposal amounts correctly in both word and figure as required on the Bid Proposal Form.
7. In case of an irregularity between the numeric amount and the written amount, the amount written shall govern.

BID SECURITY

The bid proposal **MUST** be accompanied by a Bid Bond in the amount of 5% in order to be considered (in order of preference):

1. Bonding Company (AIA Document A310 American Institute of Architects)
2. Cashier's Check
3. Money Order

BIDS DUE

The Bids are due **NO LATER THAN 1330 hours on 21 November 2024** at the front desk of the Construction & Facilities Management Office, 3rd Floor in the Joint Forces Headquarters Building, Lincoln Air National Guard Base.

Mailing Address: Construction and Facilities Management Office
CFMO – CMB (attn: Robert DeMoss)
2433 Northwest 24th Street
Lincoln, NE 68524

Overnight Service – Insure that delivery will be made no later than 1:30 p.m. of the Bid Date.

All vehicles entering the Base will be stopped at the Front Gate and asked to show a Driver's License Photo ID and asked the reason or business for entry. Identify the Construction Company you are representing and that you are there to deliver a Construction Bid for the **Wahoo Readiness Center Addition Project**. In advance of the Bid Opening, we will notify Base Security of the Bid Opening and provide them with a copy of today's Sign-In Sheet to expedite this process. Please note: Security may, at random, inspect your vehicle; please allow sufficient time.

Hand-carried bids must be delivered no later than 1:30 p.m. to the Contracting Branch or Mr. Robert DeMoss (Contracts Officer). CFMO is located on the 3rd floor of the building. There is guest parking available in front of the Joint Forces Headquarters Building. If you are having difficulty getting onto the Air Guard Base, please call 402-309-8464 or 402-309-8457. The Bids will be publicly opened at 2:00 p.m. and recorded. You are encouraged to stay and attend the Bid Opening. If you hand carry your bid, be sure to allow adequate time to clear through Security and find our Office.

DRUG POLICY

By signing the Invitation to Bid, the Bidder is committed to providing a drug free work place environment. If requested by the Military Department, the Bidder must furnish evidence that they have a Drug Free Workplace Policy.

BID REVIEW COMMITTEE

The "Bid Review Committee" will meet within one week after the Public Bid Opening to review the bids for any irregularities and to award the contract on the Project.

LIQUIDATED DAMAGES

No liquidated damages will be assessed for this project.

DAVIS BACON ACT

DAVIS BACON does not apply to this Project under Nebraska State Contracting Procedures.

PERFORMANCE BONDS

Performance Bonds and Labor & Material Bonds are required on this Project upon awarding.

MANDATORY MEETINGS

PRE-CONSTRUCTION

PROGRESS REVIEW will be conducted every two weeks

INVOICE PAYMENTS ON PROJECT (AIA Form G702 -G703 are required)

Payments will be made by **DIRECT DEPOSIT** on the project in accordance with State of Nebraska procedures. Payments will be made within **45 days** after the invoices are received at the CFMO Office. The Contractor must establish a direct deposit payment enrollment with the State Treasurer (ACH – Automated Clearing House). The enrollment form will be provided at the Pre-Construction Meeting. The Nebraska State Treasurer requires that payments in excess of \$25,000 be made by direct deposit instead of State Warrants (checks).

USE OF SANITARY FACILITIES

Contractor will be required to supply and maintain chemical toilets during project execution.

EQUIPMENT STORAGE & MATERIAL STORAGE AT THE SITE

The Contractor is responsible for the security of their equipment and any materials left at the site. The Contractor is expected to keep the construction site clean and free of trash and debris during the project. Daily cleaning shall be completed.

CONTRACT TIME

The Contractor should ensure that the estimated completion timeline indicated on Bid Form (page P-2) is correct and realistic. The timeline should reflect the time required from issuance of "Notice to Proceed" **thru** Substantial Completion of the project. If, the Bid form indicates a "**not to exceed date**", this is the maximum amount of time we have allotted for the project. Your number of days can be less but not more than indicated.

GENERAL CONDITIONS REVIEW

See General Conditions provided in the bid packet.

USE OF SITE

The Contractor is responsible for the security and safety of the site at all times. The contractor is responsible for repair of any damages to facilities and property.

SECURITY RESTRICTIONS

Taking photos of government vehicles and personnel is not authorized.

PROJECT MANAGER COMMENTS

An Entry Access List (EAL) will be required on contractor and subcontractor personnel so that the Army Guard can vet all workers on site.

READINESS CENTER FACILITY COMMENTS

ARCHITECT COMMENTS



Nebraska Military Department
 Construction and Facilities Management Office
 JFHQ Building, 2433 NW 24th Street, Lincoln, Nebraska 68524-1801
 (402) 309-8450 (main) (402) 309-7480 (fax)

PRE-BID MEETING - Wahoo Readiness Center Addition
 1000 Hours 7 Nov 2024



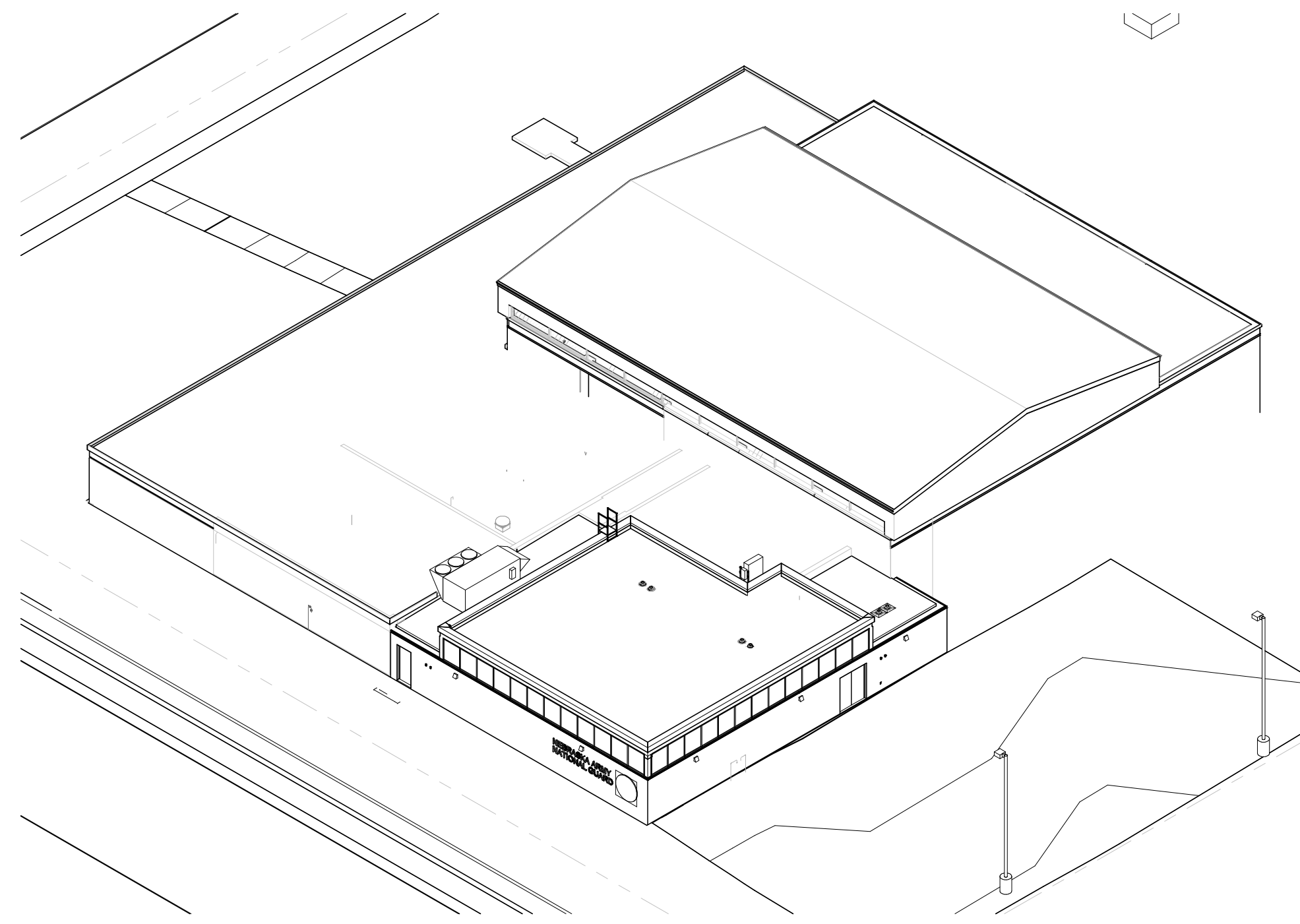
Name	Agency/Company	Phone Number	E-mail Address
Mr. James Rasmussen	CFMO Business Manager	402-309-8457	james.t.rasmussen3.civ@army.mil
Robert DeMoss	CFMO Contracts Officer	402-309-8464	robert.w.demoss2.nfg@army.mil
Mr. Dustin Robinson	CFMO Project Manager	402-309-8463	dustin.t.robinson2.nfg.@army.mil
Mr. Michael Daily, AIA MSO	BVH Architecture	402-413-6721	mdaily@bvh.com
SFC Aaron T. Smith	Wahoo RC POC	402-309-8825	aaron.t.smith68.mil@army.mil
Nick Colten	IES Electric	402-890-7874	nick nick@ieselectricalinc.com
Dan Ridley	Grunwald Mech	402-658-2350	DRIDLEY@GRUNWALD1.COM
Justin Schultz	BIC	402-875-3522	jschultz@bicconstruction.com
Christian Martin	Rogge General Contractors	402-441-3100	tk@roggeinc.com
LANNA FOPF	MEO HENNE	402-331-8127	ESTIMATING@MEOWHENNE.COM
Ben Logsdon	Sampson	402-570-9202	estimating@sampson-construction.com
Brian Clinton	Cheever	402-492-7636	belinda@cheeverconstruction.com
Derek Schmitz	Sand Creek	402-680-9220	dschmitz@sandcreek.com
Joel Hines	Sand Creek	402-317-2735	Thines@sandcreek.com
TED Schroeder	Omaha Cone Sawing	402-455-8625	TED@OCES.COM
CAMERON OPEER	LUND-ROSS	402-676-7387	Cameron@LUNDROSS.COM
Brod Morsy	Fluid Mechanical	402-460-4302	brod.morsy@fluidmech.com
Val Wiley	Newirth Const	402-670-7576	Val@newirtha.com
Joe Brabe	Hausmann Construction	402-480-0836	beb@hausmannconstruction.com
Brock Wyman	D.B. Anderson Construction	402-708-8933	BWyman@DRANDERSON.COM
Cassey Leif	Genesis	402-366-5119	estimating@genesiscontracting.com

WAHOO READINESS CENTER ADDITION

338 W 15TH ST.
WAHOO, NE, 68066

BVH PROJECT #: 24021
NMD PROJECT #: 31030344

CONSTRUCTION DOCUMENTS



ARCHITECT
BVH ARCHITECTURE
440 N 8TH ST STE 100
LINCOLN NE 68508
V 402 475 4551
F 402 475 0226
bvh.com

ENGINEERING TECHNOLOGIES, INC.
825 M ST #200
LINCOLN, NE 68508
V 402 476 1273
eti-engineers.com

VOSS & ASSOCIATES
201 N 7TH ST
LINCOLN, NE 68508
V 402 476 6365
voss-assoc.com

OLSSON ASSOCIATES
601 P ST #200
LINCOLN, NE 68508
V 402 474 6311
olssonassociates.com

REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
1	11/14/2024	Addendum 01

GENERAL

G1.0 COVER SHEET
G1.1 LIFE SAFETY AND CODE ANALYSIS

CIVIL

C0.0 GENERAL NOTES
C1.0 EXISTING CONDITIONS PLAN
C2.0 DEMOLITION PLAN
C3.0 SITE PLAN
C4.0 SPOT ELEVATION PLAN
C5.0 STORM SEWER PLAN & PROFILE
C6.0 DETAILS

ARCHITECTURAL

AD1.1 DEMOLITION PLAN
AD1.2 DEMOLITION DETAILS
A0.0 WALL TYPES, DRAFTING STANDARDS
A0.1 WALL, FLOOR AND ROOF TYPES
A1.0 BASEMENT PLAN
A1.1 FIRST FLOOR PLAN
A1.2 CLERESTORY PLAN
A1.3 ENLARGED PLAN
A1.4 ROOF PLAN
A2.1 CEILING PLANS
A3.1 BUILDING ELEVATIONS
A4.1 BUILDING SECTIONS
A5.1 WALL SECTIONS
A5.2 WALL SECTIONS
A5.3 WALL SECTIONS
A5.4 WALL SECTIONS
A5.5 SOUTH STAIR PLANS, SECTIONS, DETAILS
A5.6 SOUTH STAIR PLANS, SECTIONS, DETAILS
A5.7 NORTH STAIR PLANS, SECTIONS, DETAILS
A6.0 FLASHING PROFILES
A6.1 DETAILS
A6.2 DETAILS
A6.3 DETAILS
A6.4 DETAILS
A7.1 DOOR SCHEDULE, WINDOW FRAME TYPES/DETAILS
A8.1 INTERIOR ELEVATIONS & DETAILS
A8.2 INTERIOR ELEVATIONS & DETAILS
A8.3 INTERIOR ELEVATIONS & DETAILS
A9.1 FINISH PLANS
A9.2 INTERIOR FINISH LEGEND & NOTES

STRUCTURAL

S1.1 STRUCTURAL DESIGN DATA, GENERAL NOTES, SCHEDULES AND TYPICAL DETAILS
S1.2 STRUCTURAL SCHEDULES AND TYPICAL DETAILS
S1.3 STRUCTURAL SCHEDULES AND TYPICAL DETAILS
S2.1 STRUCTURAL BASEMENT AND MAIN LEVEL FOUNDATION PLANS
S2.2 STRUCTURAL LOW ROOF AND HIGH ROOF FRAMING PLANS
S3.1 STRUCTURAL DETAILS
S3.2 STRUCTURAL DETAILS
S3.3 STRUCTURAL DETAILS
S3.4 STRUCTURAL DETAILS

MECHANICAL

MG0.0 MECHANICAL GENERAL INFORMATION
F1.1 FIRE SPRINKLER PLANS
MD1.1 FIRST FLOOR MECHANICAL DEMOLITION PLANS
M1.0 BASEMENT MECHANICAL PLANS
M1.1 FIRST FLOOR MECHANICAL PLANS
M1.2 ROOF MECHANICAL PLANS
M2.0 ENLARGED MECHANICAL PLANS
M3.0 MECHANICAL DETAILS
M4.0 MECHANICAL SCHEDULES
M5.0 MECHANICAL RISERS

ELECTRICAL

EG0.0 ELECTRICAL GENERAL INFORMATION
ES1.0 ELECTRICAL SITE PLAN
ED1.0 ELECTRICAL DEMOLITION PLAN
E1.0 BASEMENT LIGHTING PLAN
E1.1 FIRST FLOOR LIGHTING PLAN
E2.0 BASEMENT POWER PLAN
E2.1 FIRST FLOOR POWER PLAN
E2.2 ROOF POWER PLAN
E3.0 BASEMENT TECHNOLOGY PLAN
E3.1 FIRST FLOOR TECHNOLOGY PLAN
E4.0 ELECTRICAL DETAILS
E4.1 TECHNOLOGY DETAILS
E5.0 ELECTRICAL SCHEDULES
E6.0 ELECTRICAL RISER DIAGRAMS

ALTERNATE BID ITEMS

ABI #1: LOWER LEVEL LOCKERS
BASE BID: NO LOCKERS PROVIDED IN LOWER LEVEL.
ALTERNATE: PROVIDE NEW MILITARY LOCKERS IN THE LOWER LEVEL AS INDICATED ON DRAWINGS

ABI #2: FEATURE WALL
BASE BID: THE EAST WALL OF HALL 104 IS TO BE PAINTED GYPSUM BOARD
ALTERNATE: RECESSED WALL AREA WITH STEEL PLATE, WOOD TRIM, TACKABLE SURFACE AND LIGHTING AS SHOWN IN DRAWINGS

ABI #3: EXISTING LOCKER ROOM FINISHES UPGRADE
BASE BID: EXISTING LOCKER ROOM SPACE FINISHES TO REMAIN AS EXISTING
ALTERNATE: NEW WALL PAINT, NEW CEILING, AND RUBBER FLOORING TO BE INSTALLED. EXISTING LIGHTING TO BE REMOVED, NEW LIGHTING AND LIGHTING CONTROL SYSTEM TO BE INSTALLED

ABI #4: EXTERIOR GLAZING TYPE
BASE BID: UTILIZE GLAZING TYPE IGU-1 AND 084313 ALUMINUM FRAMED STOREFRONT FOR ALL EXTERIOR WINDOW LOCATIONS
ALTERNATE: UTILIZE GLAZING TYPE IGU-2 AND 084413 GLAZED ALUMINUM CURTAIN WALLS FOR ALL EXTERIOR WINDOW LOCATIONS



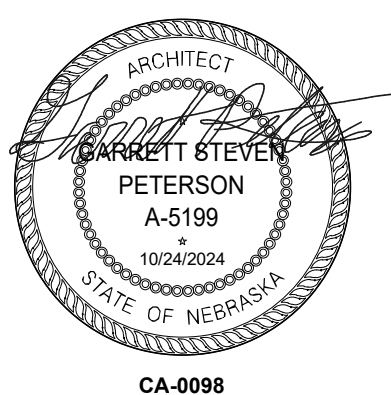
COORDINATING PROFESSIONAL



I, GARRETT PETERSON CERTIFY THAT I AM THE COORDINATING PROFESSIONAL FOR THE :
WAHOO READINESS CENTER ADDITION PROJECT.

Wahoo Readiness Center Addition

PROJECT: 24021 DATE: 10/24/2024
© COPYRIGHT BVH ARCHITECTURE



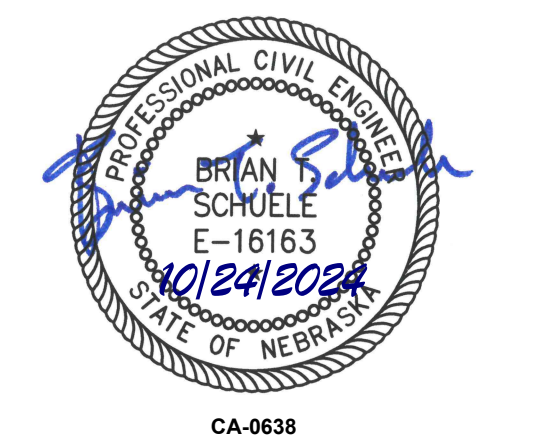
COVER SHEET

G1.0

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION
1	11/12/2024	ADD No. 1

Wahoo Readiness Center Addition

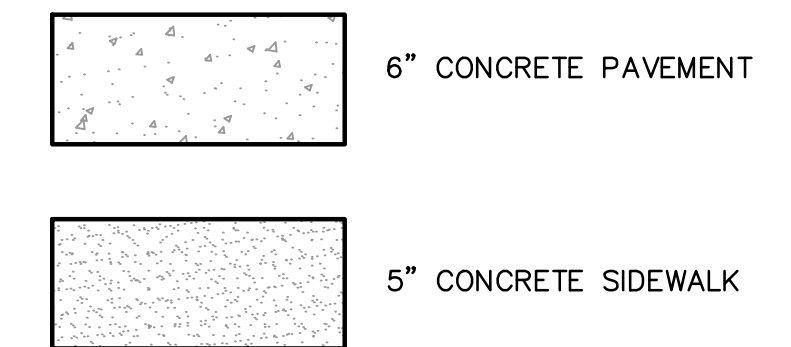
PROJECT: 24021 DATE: 10/24/2024
 © COPYRIGHT BVH ARCHITECTURE 100% CD'S



SITE PLAN

C3.0

LEGEND

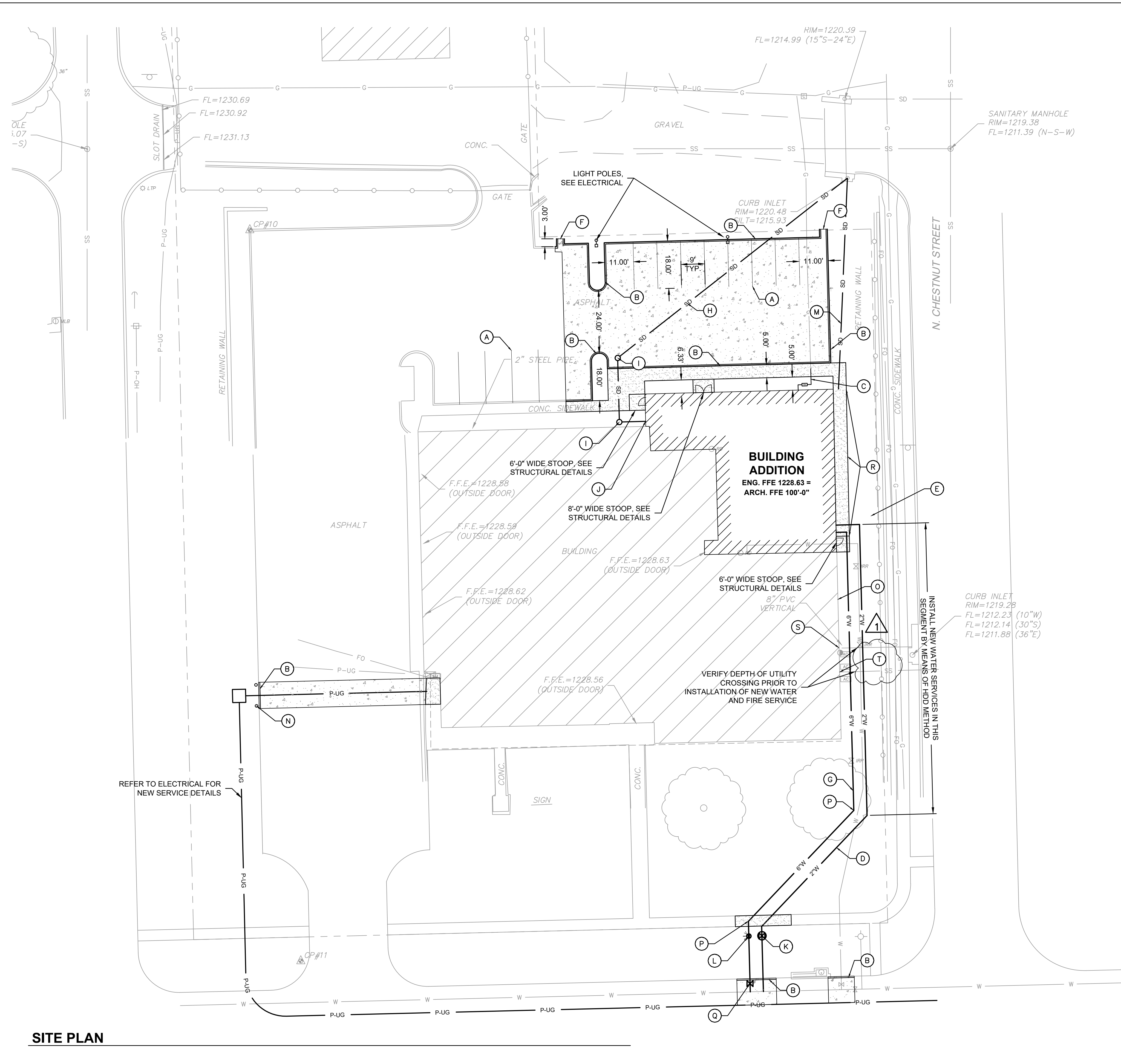
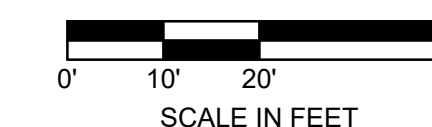


SITE KEY NOTES

(A)	4" WHITE PERMANENT STRIPING FOR PARKING STALLS
(B)	INTEGRAL CURB & GUTTER
(C)	COORDINATE WITH BLACK HILLS ENERGY TO INSTALL GAS SERVICE AND METER. CONTRACTOR SHALL CONTACT BLACK HILLS ENERGY DURING THE BID PERIOD TO OBTAIN PRICING FOR THIS WORK AND INCLUDE IT IN THE PROJECT BID. SEE MECHANICAL DRAWING FOR BUILDING ENTRANCE AND INTERIOR PIPE ROUTING
(D)	2" PE WATER SERVICE
(E)	REPAIR ANY IRRIGATION SYSTEM DAMAGED ALONG EAST SIDE OF NEW ADDITION
(F)	CONCRETE FLUME, SEE DETAIL SHEET
(G)	6" PVC FIRE SERVICE
(H)	6" STORM SEWER, SEE STORM PLAN SHEET C5.0
(I)	24" DRAIN BASIN W/ SOLID GRATE, SEE STORM PLAN SHEET C5.0
(J)	SEE MECHANICAL DRAWINGS FOR ROOF DRAIN PIPING
(K)	2" WATER SERVICE CONNECTION AND CURB STOP
(L)	6" PIV VALVE ASSEMBLY
(M)	4" FOUNDATION DRAIN TILE, SEE STORM PLAN SHEET C5.0
(N)	PIPE BOLLARDS, SEE DETAIL SHEET C6.0
(O)	RECONNECT NEW IRRIGATION SERVICE TO EXISTING SYSTEM. SEE MECHANICAL DRAWING M2.0 FOR MORE DETAILS
(P)	INSTALL: 1-6" 45° BEND, M.J. 1-6" 45° RC THRUST BLOCK, SEE DETAIL SHEET C6.0
(Q)	6" TAPPING TEE AND VALVE
(R)	SIDEWALK / RETAINING WALL, SEE DETAIL SHEET C6.0
(S)	RE-CONNECT RELOCATED ROOF DRAIN PIPING TO EXISTING BELOW GRADE PIPING, SEE MECHANICAL DRAWINGS FOR DETAILS
(T)	RECONNECT PROPOSED SANITARY SEWER TO EXISTING SANITARY SEWER, SEE MECHANICAL SHEET M1.0

GENERAL NOTES:

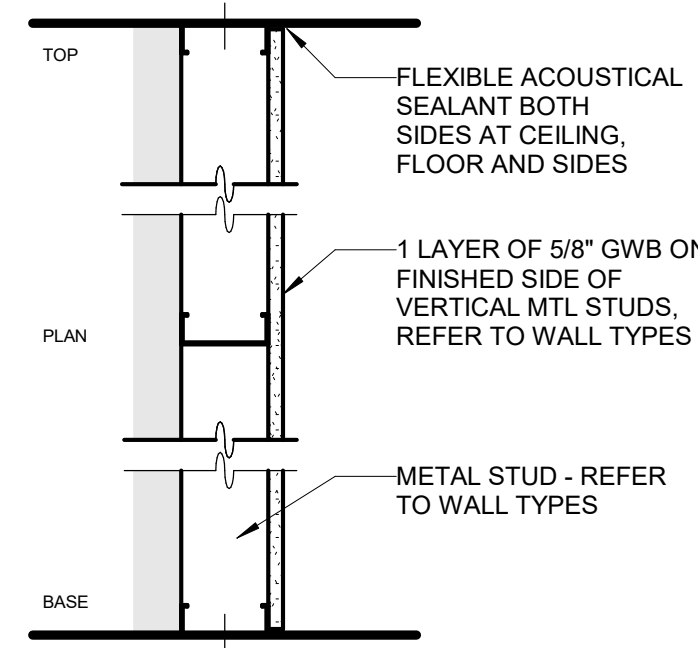
- IN THE AREA OF PARKING LOT PAVEMENT REMOVAL, OVER-EXCAVATE AND PLACE A MINIMUM DEPTH OF 12" STRUCTURAL FILL HAVING A LIQUID LIMIT LESS THAN 45, AND A PLASTICITY INDEX OF LESS THAN 25 TO ACHIEVE 98% STANDARD PROCTOR COMPACTION WITH OPTIMUM MOISTURE CONTENT TO +3 PERCENT.



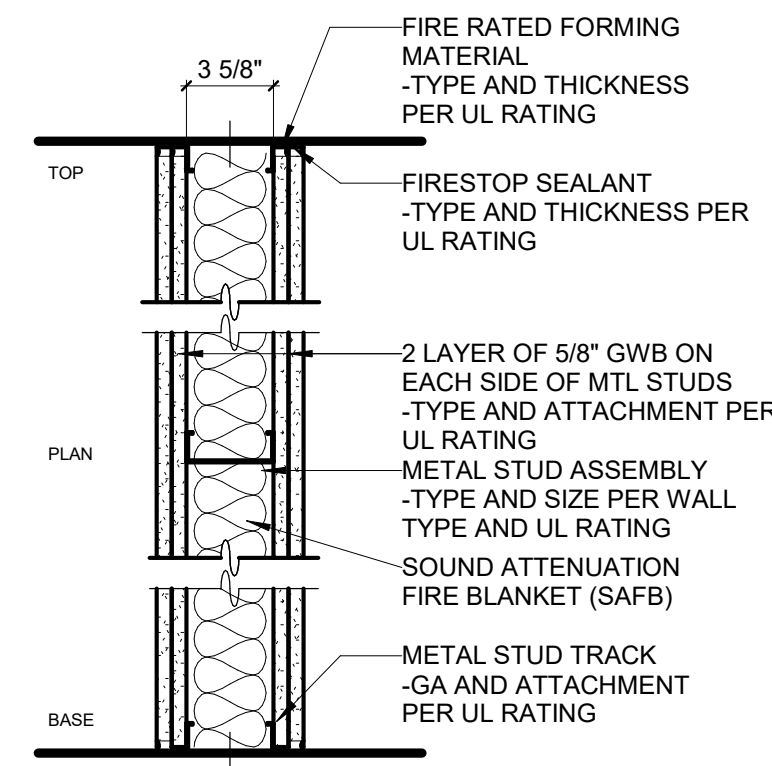
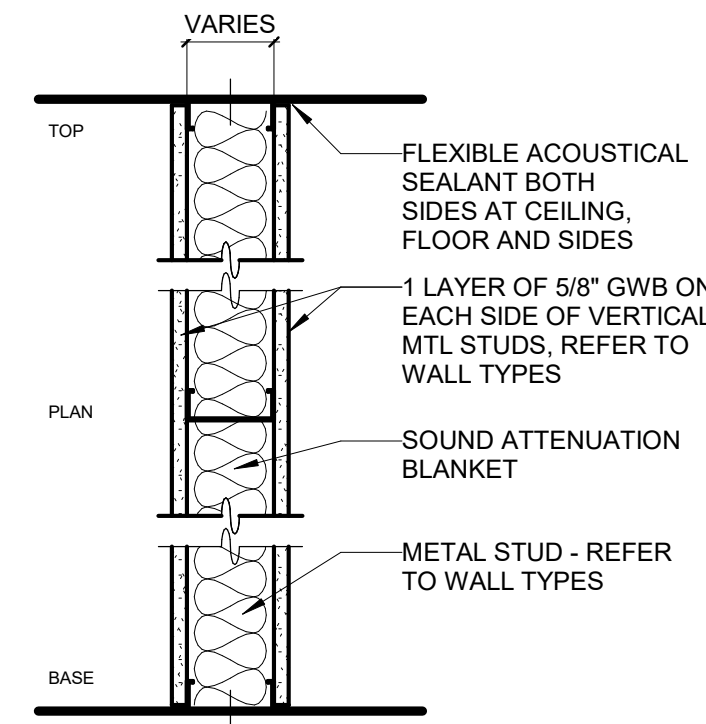
SITE PLAN

INTERIOR WALL TYPES

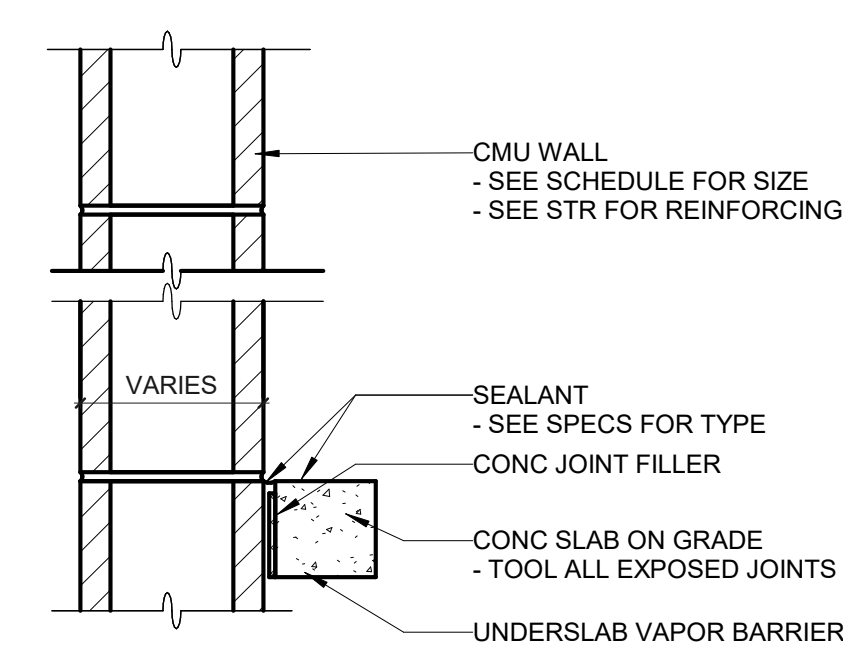
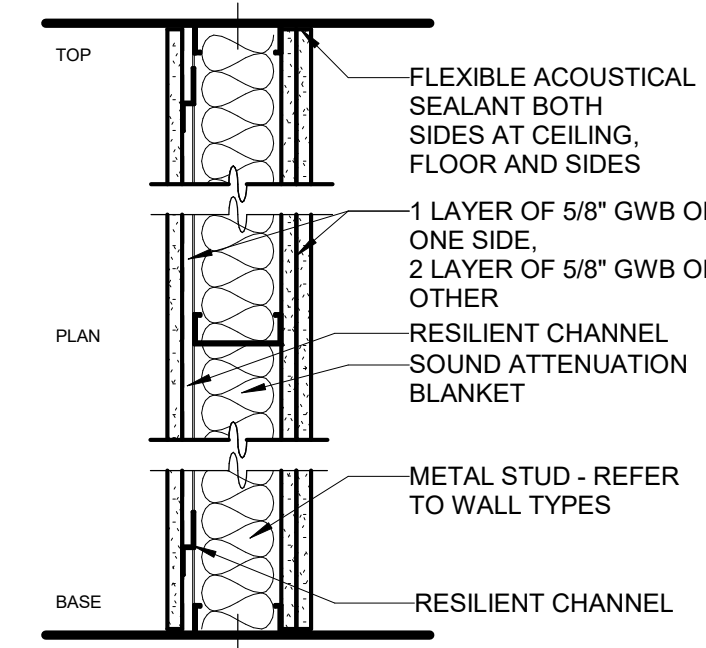
REFERENCE CODE PLANS FOR FIRE RATED WALL REQUIREMENTS



NON-RATED PARTITION



TWO HOUR FIRE RATED PARTITION (UL U419)



GENERAL NOTES:

SEE SPECIFICATIONS FOR ADDITIONAL WALL DETAILS, STANDARDS, AND REQUIREMENTS.
SEE DRAWINGS AND UL RATING LISTED IN THE SCHEDULE FOR ADDITIONAL WALL DETAILS, STANDARDS, AND REQUIREMENTS.

ALL DIMENSIONS SHOWN ARE TO FACE OF DRYWALL OR FACE OF MASONRY, UNLESS NOTED OTHERWISE. OVERALL THICKNESS OF WALLS DOES NOT INCLUDE THE THICKNESS OF FINISHED MATERIAL SUCH AS TILE, ETC.

SEAL ALL MECH, ELECT, EQUIPMENT, OR DEVICE PENETRATIONS THROUGH UNRATED FLOORS AND WALLS SMOKE TIGHT. METAL TRIM OR ESCUTCHEONS ALONE ARE NOT ACCEPTABLE. SEE 2018 IBC CHAPTER 7 FOR FULL CODE REQUIREMENTS.

SEAL ALL MECH AND ELECT PENETRATIONS THROUGH RATED FLOORS AND WALLS PER THE DESIGNATED OR EQUIVALENT UL DESIGN NUMBER FOR A COMPLETE RATED ASSEMBLY.

- F10** 1 5/8" METAL FURRING @ 16" O.C. W/ 5/8" GWB ONE SIDE
- F30** 3 5/8" METAL STUD @ 16" OC W/ 5/8" GWB ONE SIDE

- M30** 3 5/8" METAL STUD @ 16" OC W/ 5/8" GWB BOTH SIDES
- M60** 6" METAL STUD @ 16" OC W/ 5/8" GWB BOTH SIDES

- M32** 3 5/8" METAL STUD @ 16" OC W/ 5/8" GWB BOTH SIDES

- M38** 3 5/8" METAL STUD @ 16" OC W/ (2) LAYERS 5/8" GWB ONE SIDE. RESILIENT CHANNEL AND (1) LAYER 5/8" GWB OTHER SIDE

- C80** 8" CONCRETE MASONRY UNIT (7 5/8" ACTUAL DIMENSION)

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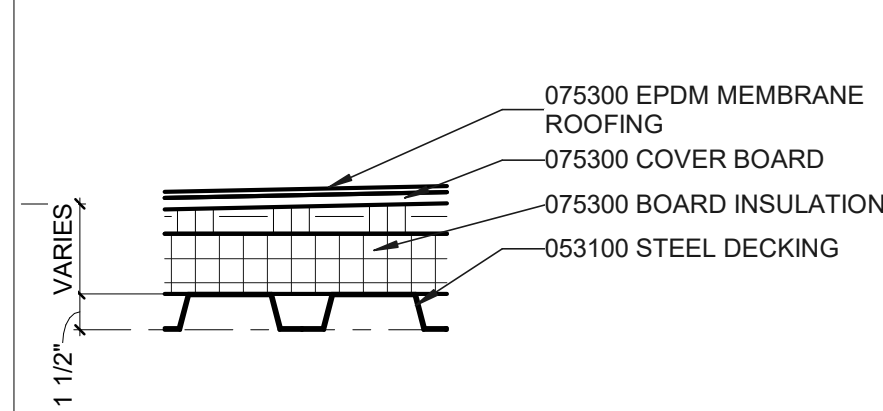
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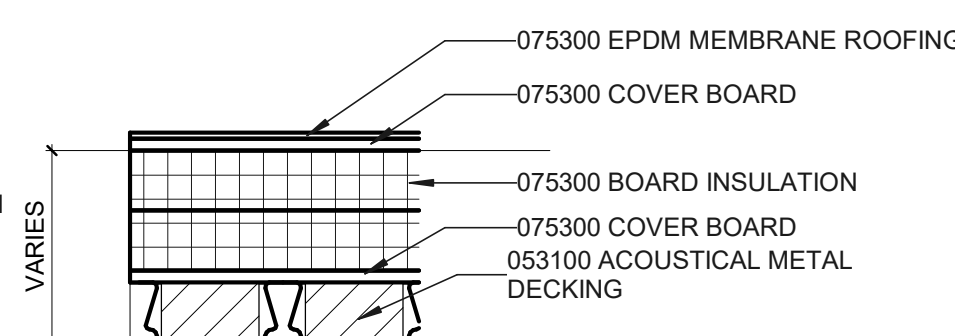
ROOF TYPES

ROOF TYPE 1: EPDM MEMBRANE ON 1 1/2" METAL ROOF DECK



- ROOF TYPE 1:**
- 075300 EPDM MEMBRANE
- 075300 COVER BOARD
- 075300 TAPERED ROOF INSULATION - WHERE OCCURS
- 075300 2" BASE ROOF INSULATION
- 075300 TAPERED INSULATION
- 053100 1 1/2" METAL ROOF DECK

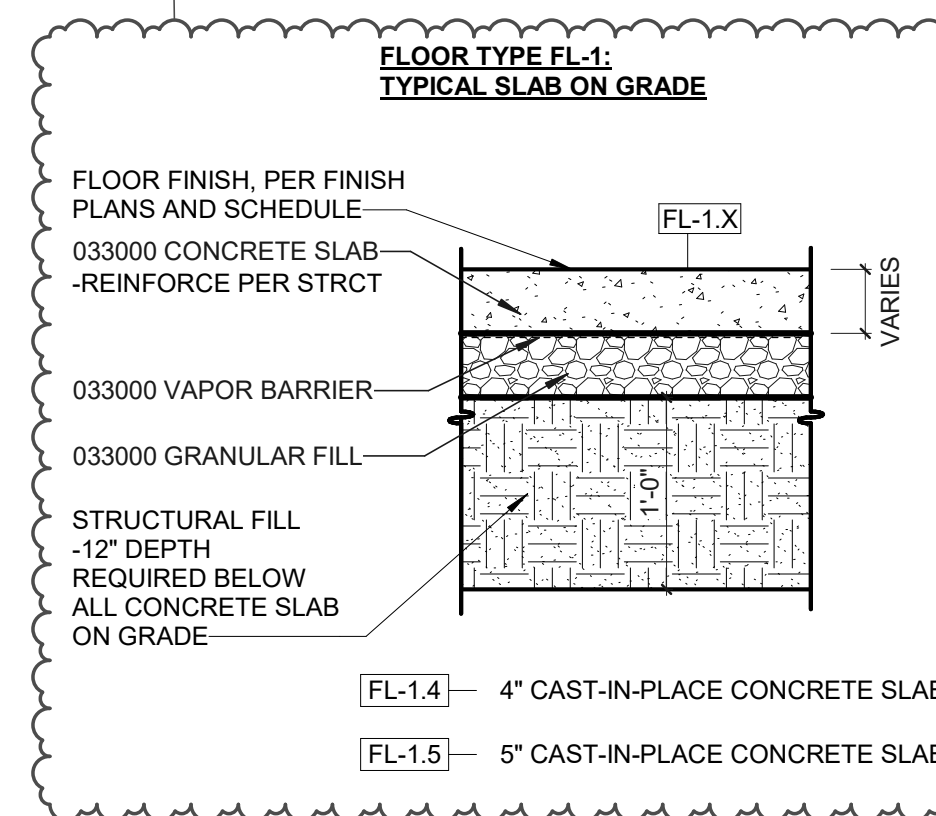
ROOF TYPE 2: EPDM MEMBRANE ON 2 1/2" ACOUSTICAL ROOF DECK



- ROOF TYPE 1:**
- 075300 EPDM MEMBRANE
- 075300 COVER BOARD
- 075300 TAPERED ROOF INSULATION - WHERE OCCURS
- 075300 5" BASE ROOF INSULATION
- 075300 COVER BOARD
- 053100 2 1/2" ACOUSTICAL ROOF DECK

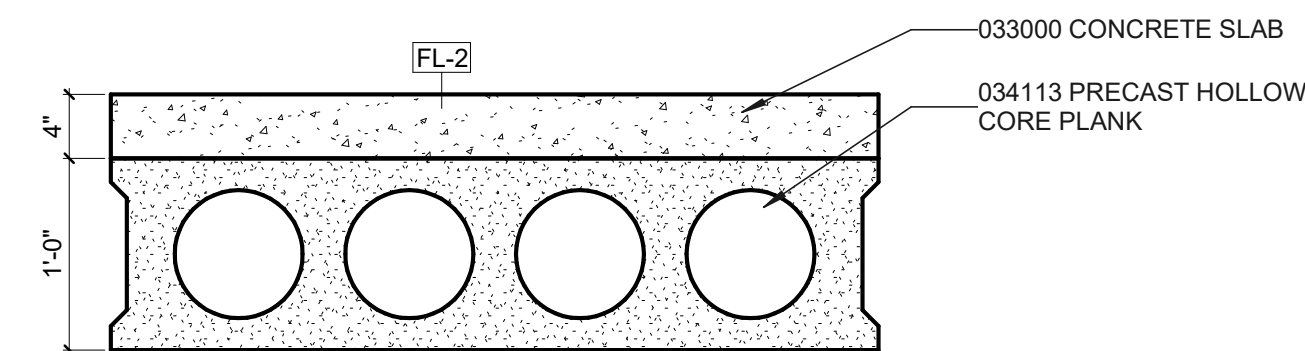
FLOOR TYPES

FLOOR TYPE FL-1: TYPICAL SLAB ON GRADE

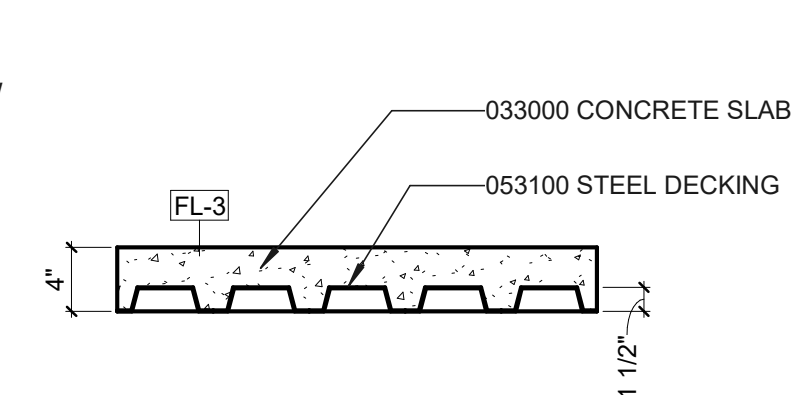


- FL-1.4** 4" CAST-IN-PLACE CONCRETE SLAB
- FL-1.5** 5" CAST-IN-PLACE CONCRETE SLAB

FLOOR TYPE FL-2: PRECAST HOLLOWCORE WITH CONCRETE TOPPING



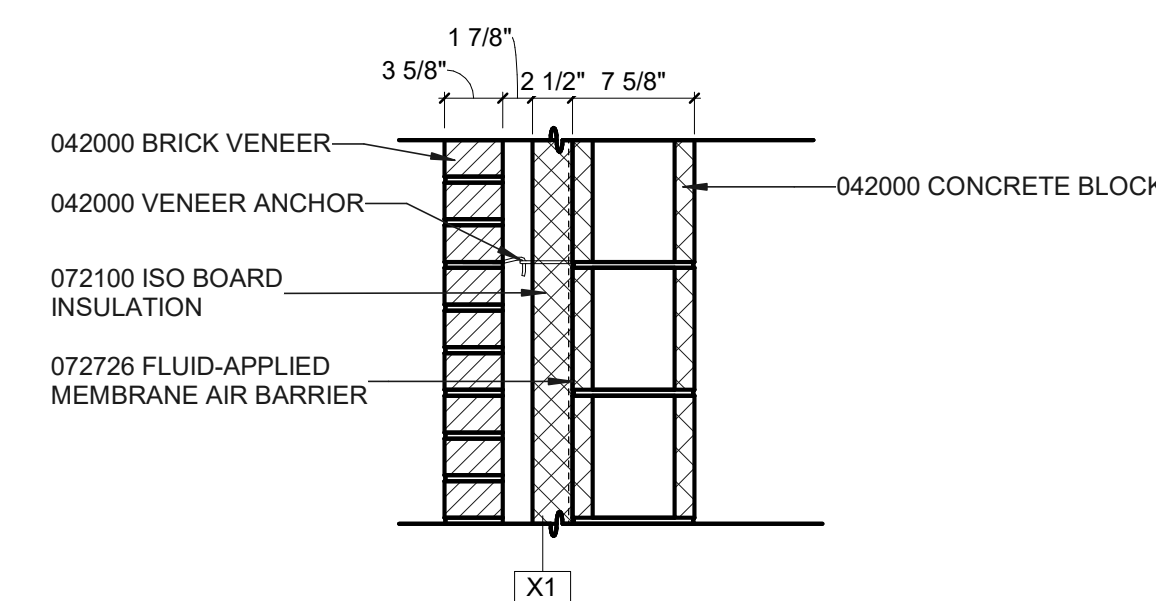
FLOOR TYPE FL-3: CONCRETE ON METAL DECK



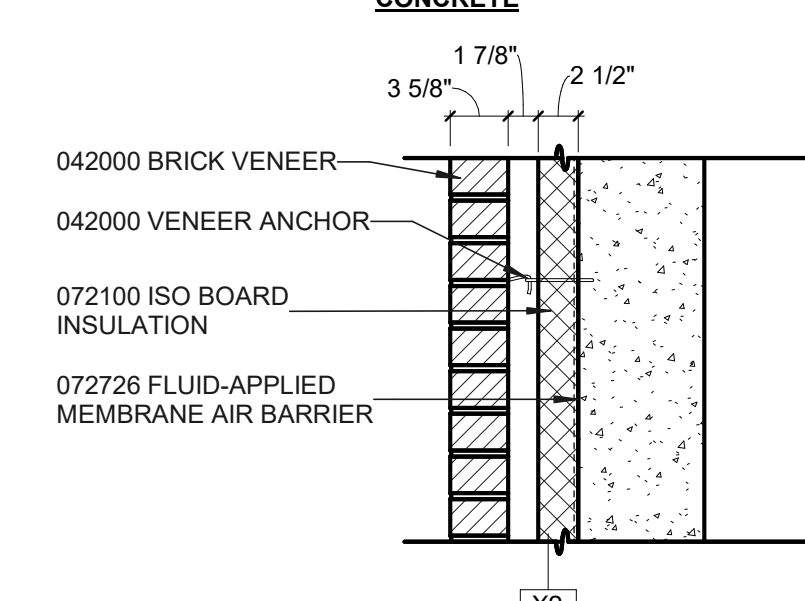
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EXTERIOR WALL TYPES

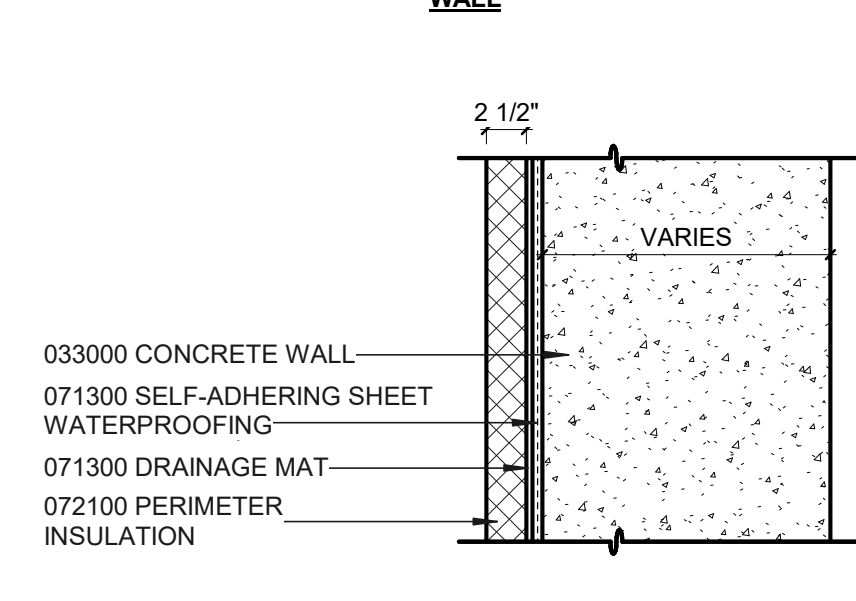
WALL TYPE X-1: TYPICAL BRICK VENEER ON CONCRETE BLOCK WALL ASSEMBLY



WALL TYPE X-2: TYPICAL BRICK VENEER ON CIP CONCRETE

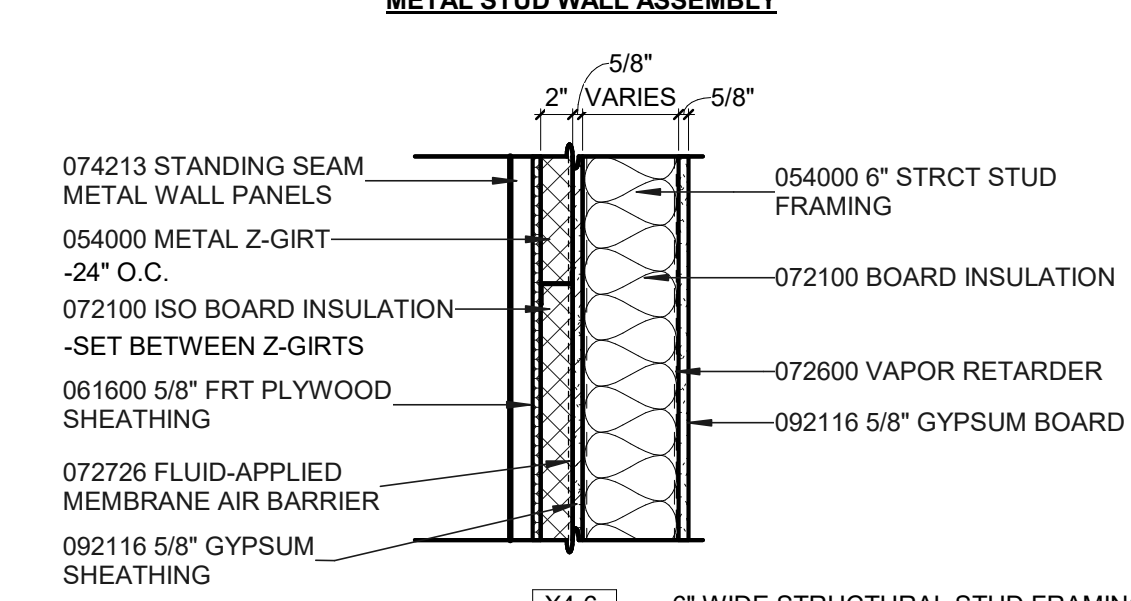


WALL TYPE X-3: TYPICAL CIP BELOW GRADE WALL



- X3-12** 12" THICK CIP CONCRETE WALL
- X3-16** 16" THICK CIP CONCRETE WALL
- X3-18** 18" THICK CIP CONCRETE WALL

WALL TYPE X-4: TYPICAL METAL PANEL ON METAL STUD WALL ASSEMBLY



- X4-6** 6" WIDE STRUCTURAL STUD FRAMING
- X4-8** 8" WIDE STRUCTURAL STUD FRAMING

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WALL, FLOOR AND ROOF TYPES

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL U.N.O.
2. UNLESS NOTED OTHERWISE, INTERIOR WALLS ARE M30

WALL TYPE SCHEDULE

WALL TYPE	DESCRIPTION
C80	8" CIP CONCRETE
C82	8" CMU
F10	1-5/8" METAL STUDS 16" O.C. 5/8" GYPSUM BOARD FINISHED SIDE.
F30	3-5/8" METAL STUDS 16" O.C. 5/8" GYPSUM BOARD FINISHED SIDE.
F60	6" METAL STUDS 16" O.C. 5/8" GYPSUM BOARD FINISHED SIDE.
M30	3-5/8" METAL STUDS 16" O.C. 5/8" GYPSUM BOARD EACH SIDE.
M32	3-5/8" METAL STUDS 16" O.C. R-11 SOUND BAT. 2 LAYERS 5/8" GYPSUM BOARD EACH SIDE.
M38	3-5/8" METAL STUDS 16" O.C. 3" SAFB. 2 LAYERS 1/2" GYPSUM BOARD OVER 1/2" RESILIENT CHANNEL. 1/2" GYPSUM BOARD OPPOSITE SIDE.
M60	6" METAL STUDS 16" O.C. 1 LAYER 5/8" GYPSUM BOARD EACH SIDE.
M80	8" METAL STUDS 16" O.C. 1 LAYER 5/8" GYPSUM BOARD EACH SIDE.

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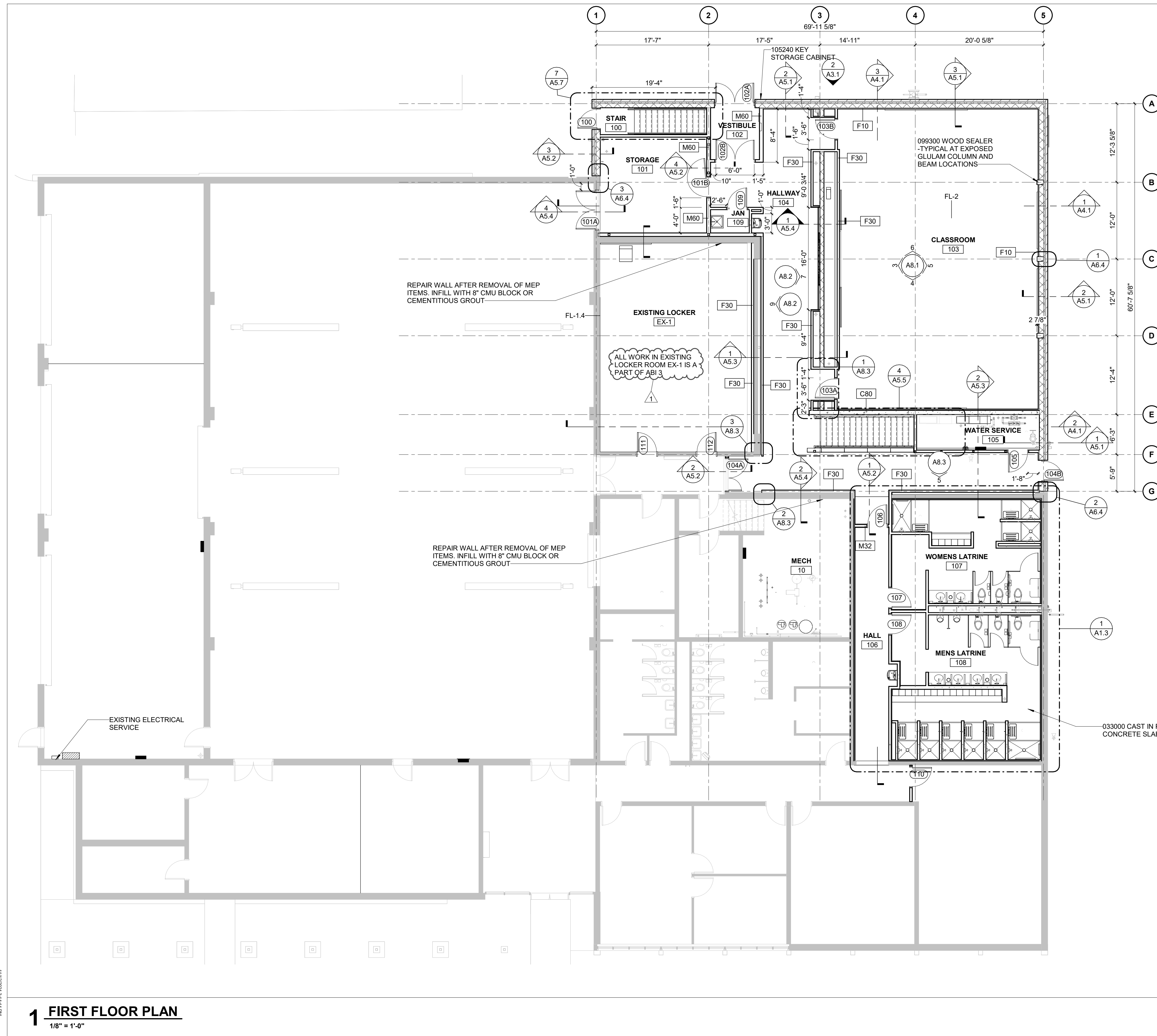


CA-0098

FIRST FLOOR PLAN



A1.1



1 FIRST FLOOR PLAN

1/8" = 1'-0"

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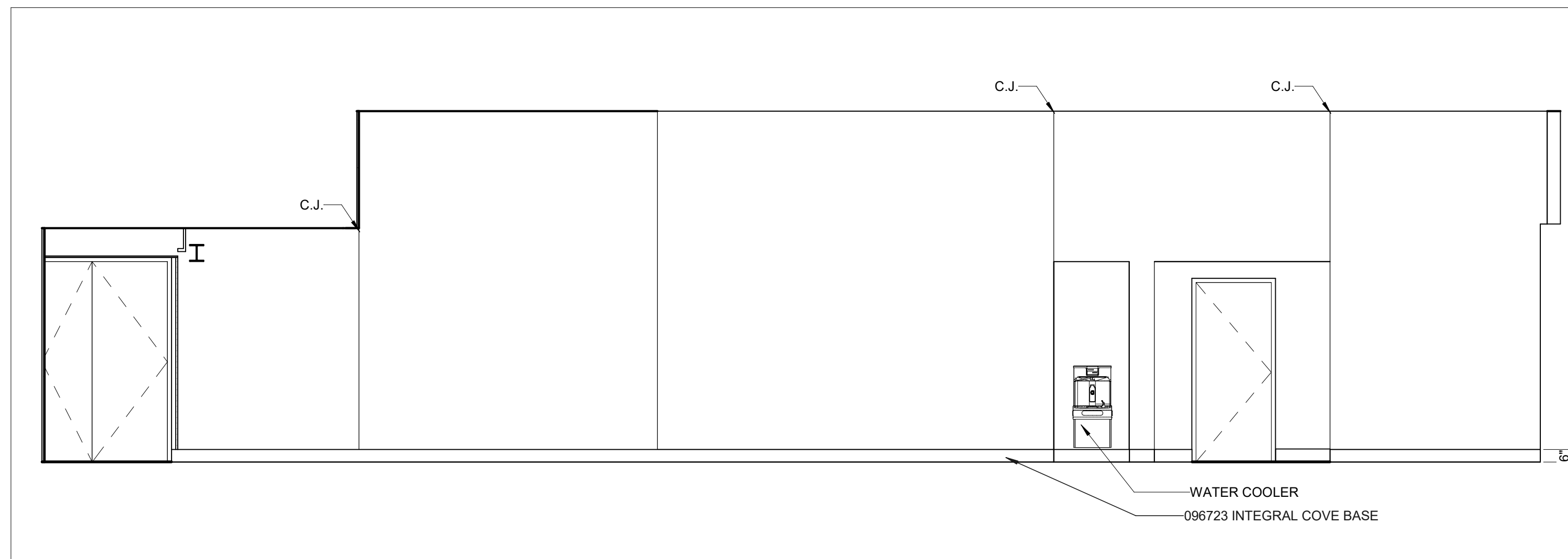
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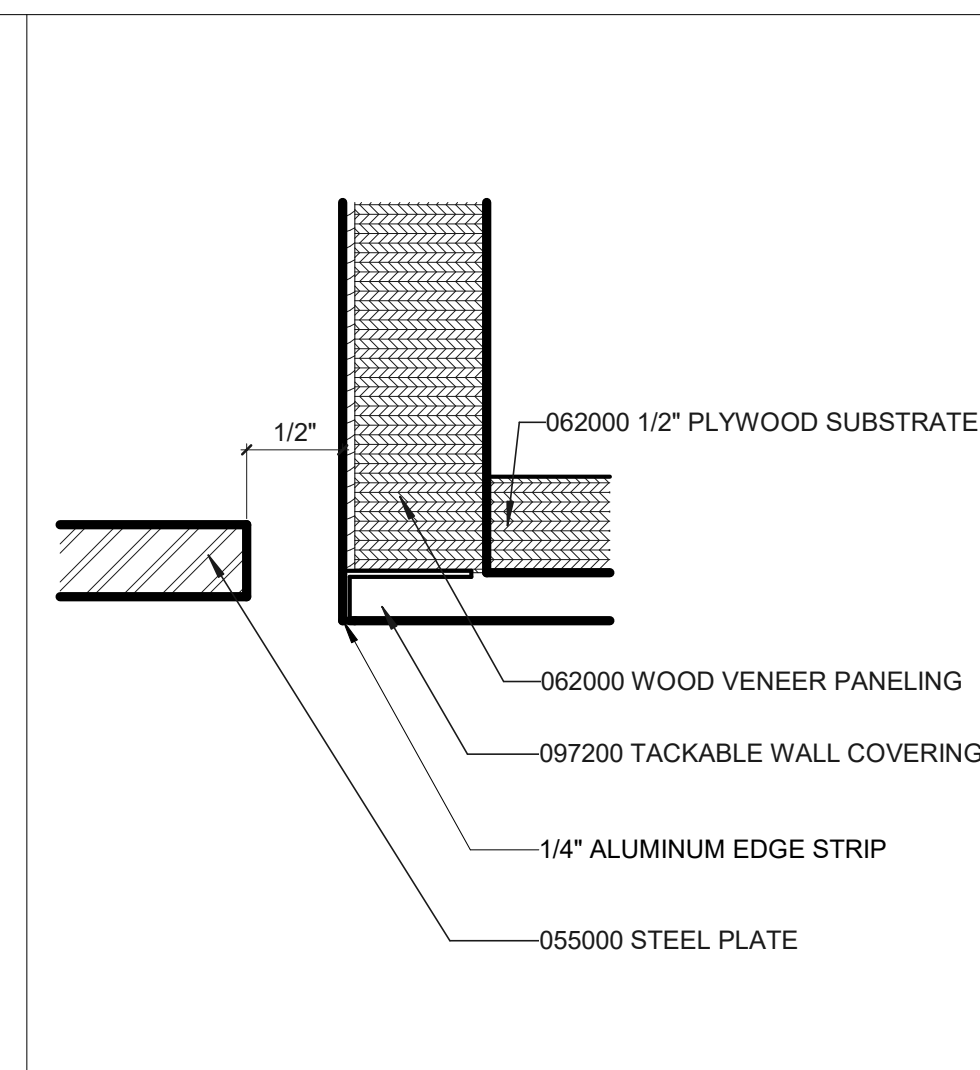
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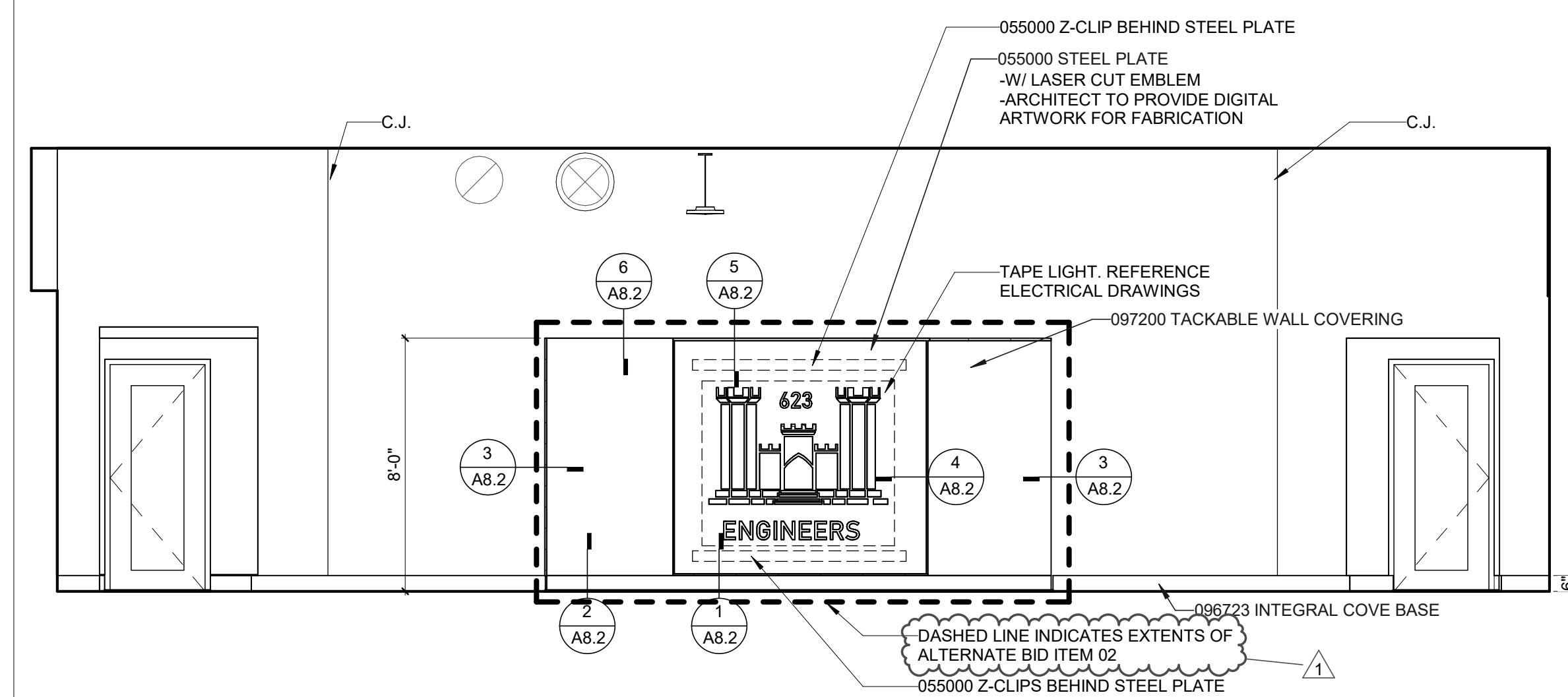
INTERIOR ELEVATIONS & DETAILS



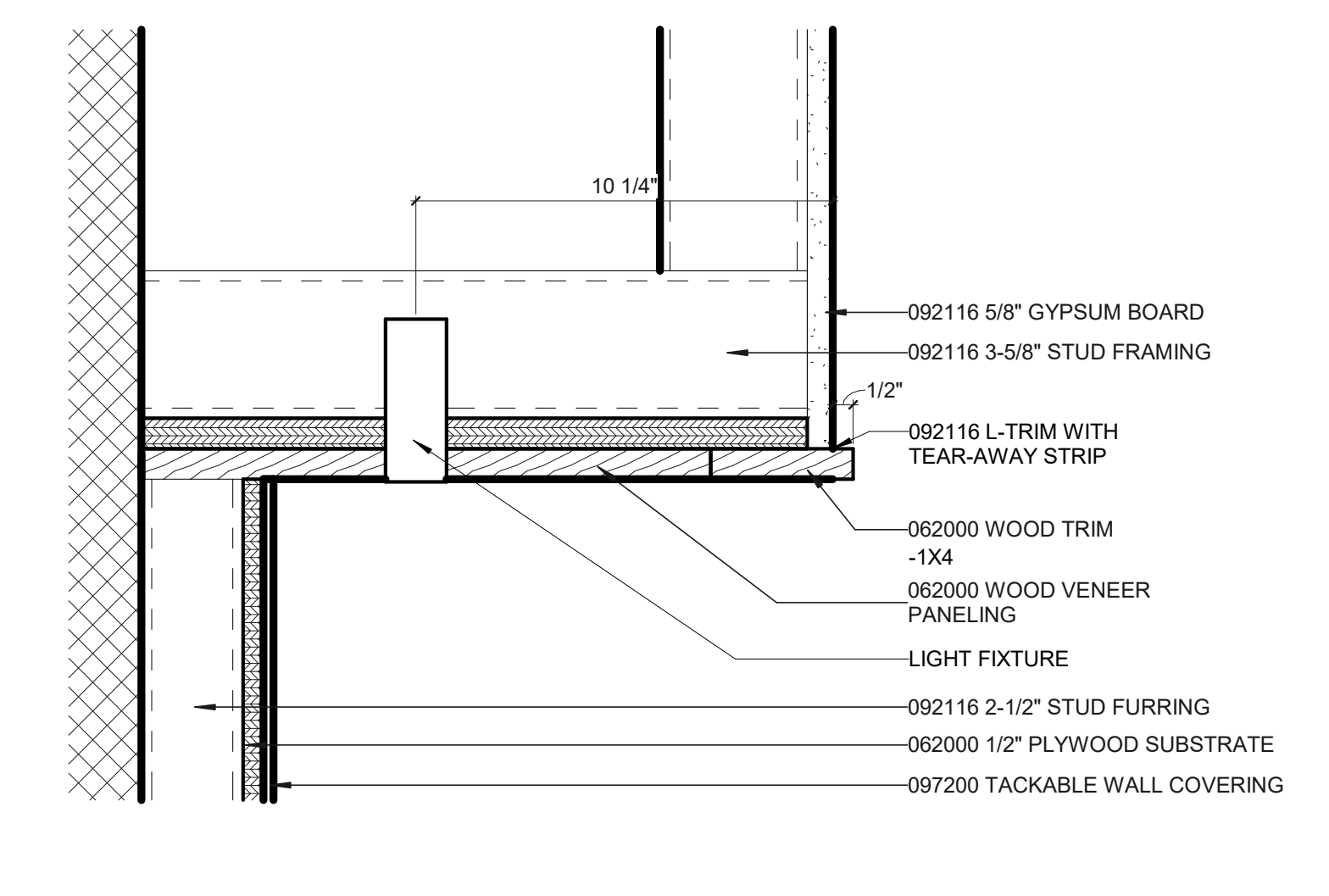
9 WEST WALL INTERIOR ELEVATION
 1/4" = 1'-0"



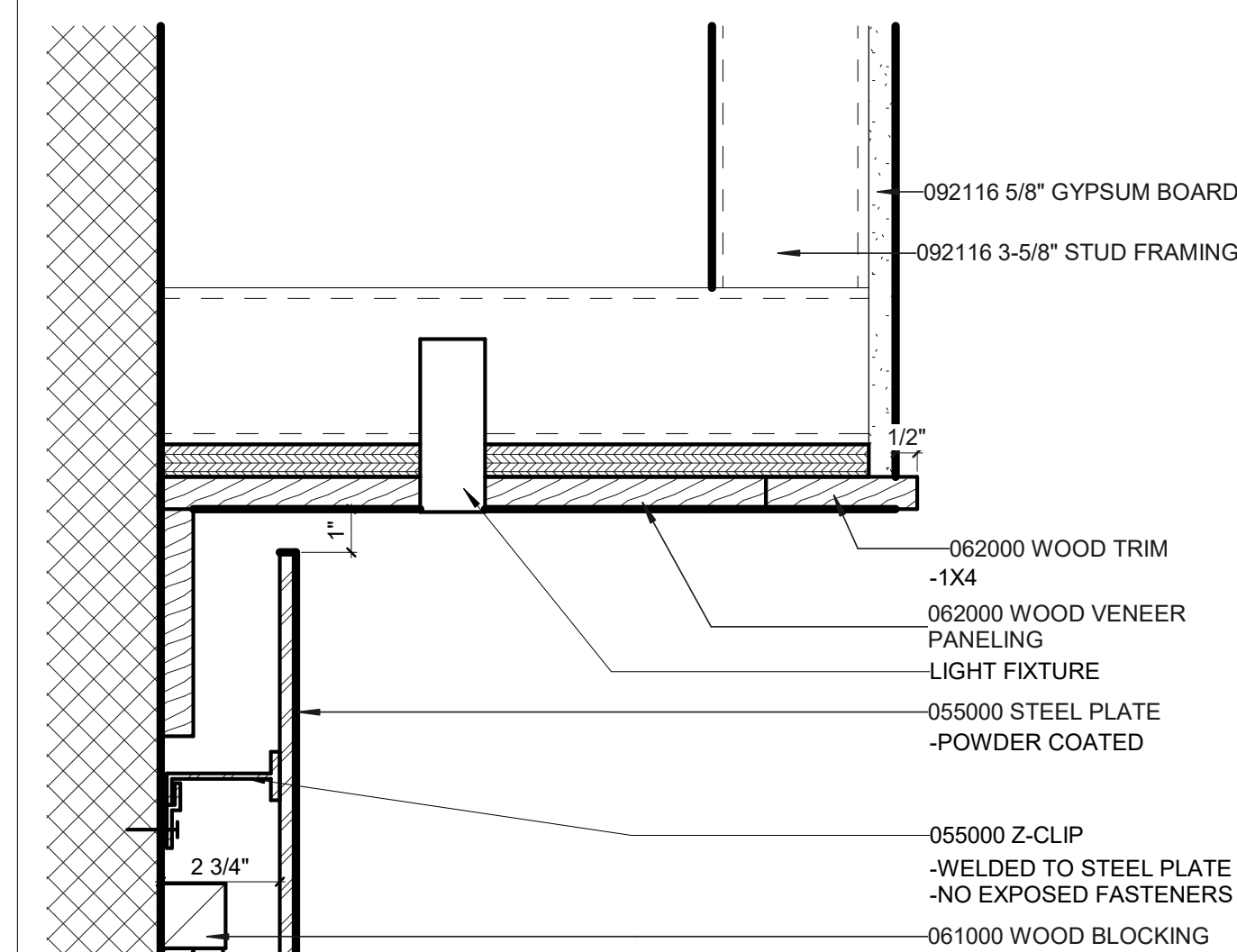
8 TACK TRIM DETAIL
 12" = 1'-0"



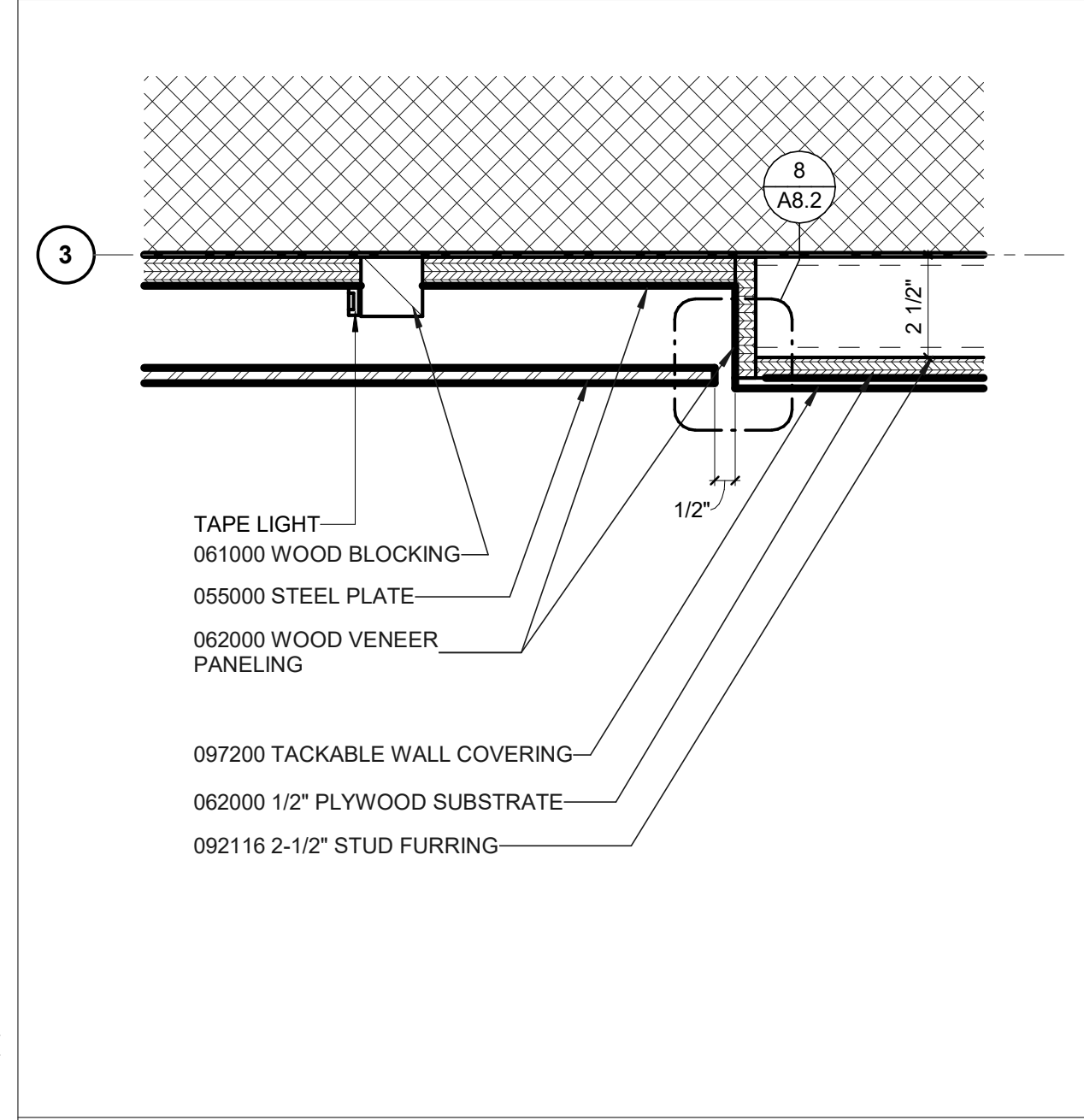
7 EAST WALL INTERIOR ELEVATION
 1/4" = 1'-0"



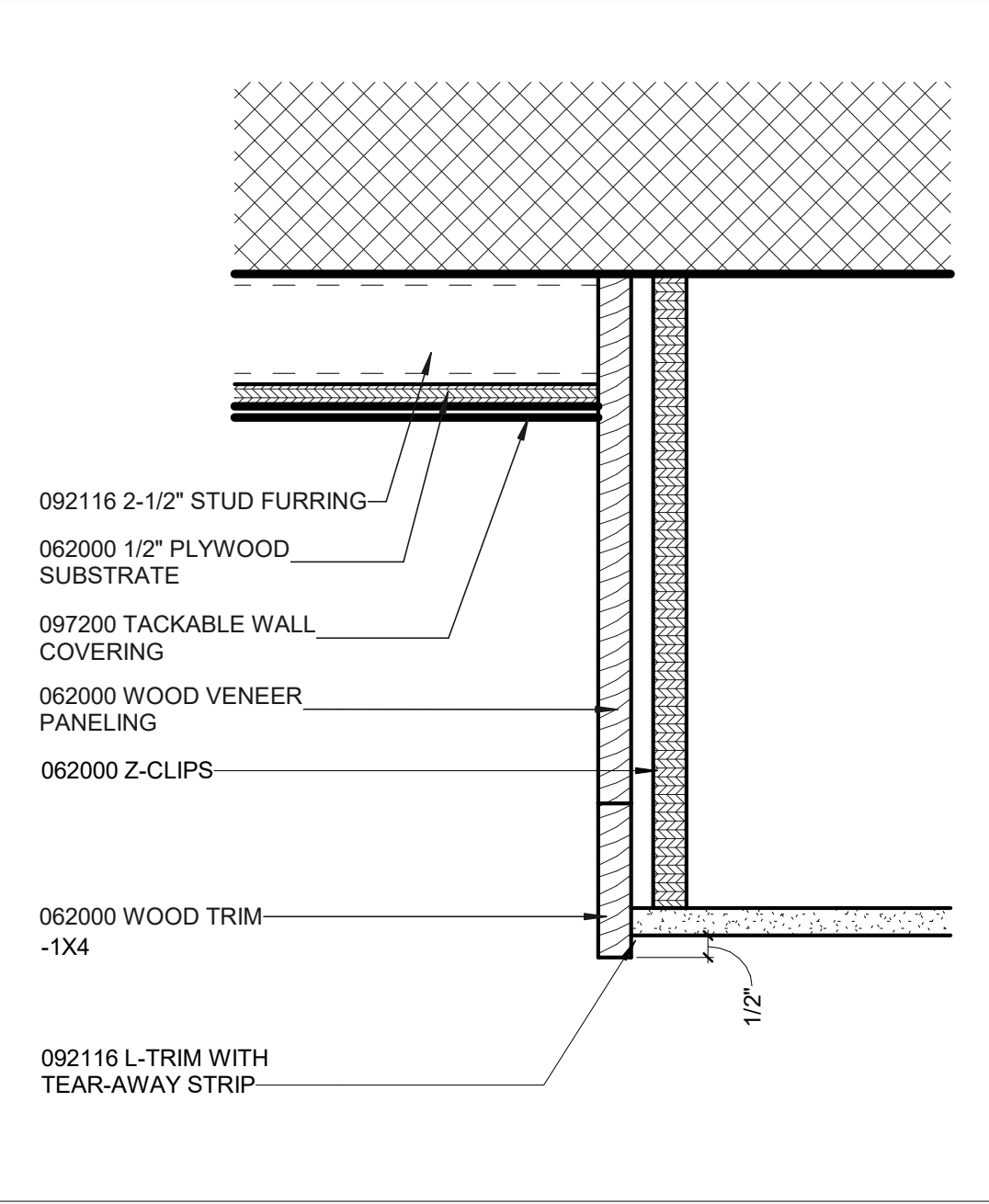
6 FEATURE WALL HEAD AT TACK BOARD
 3" = 1'-0"



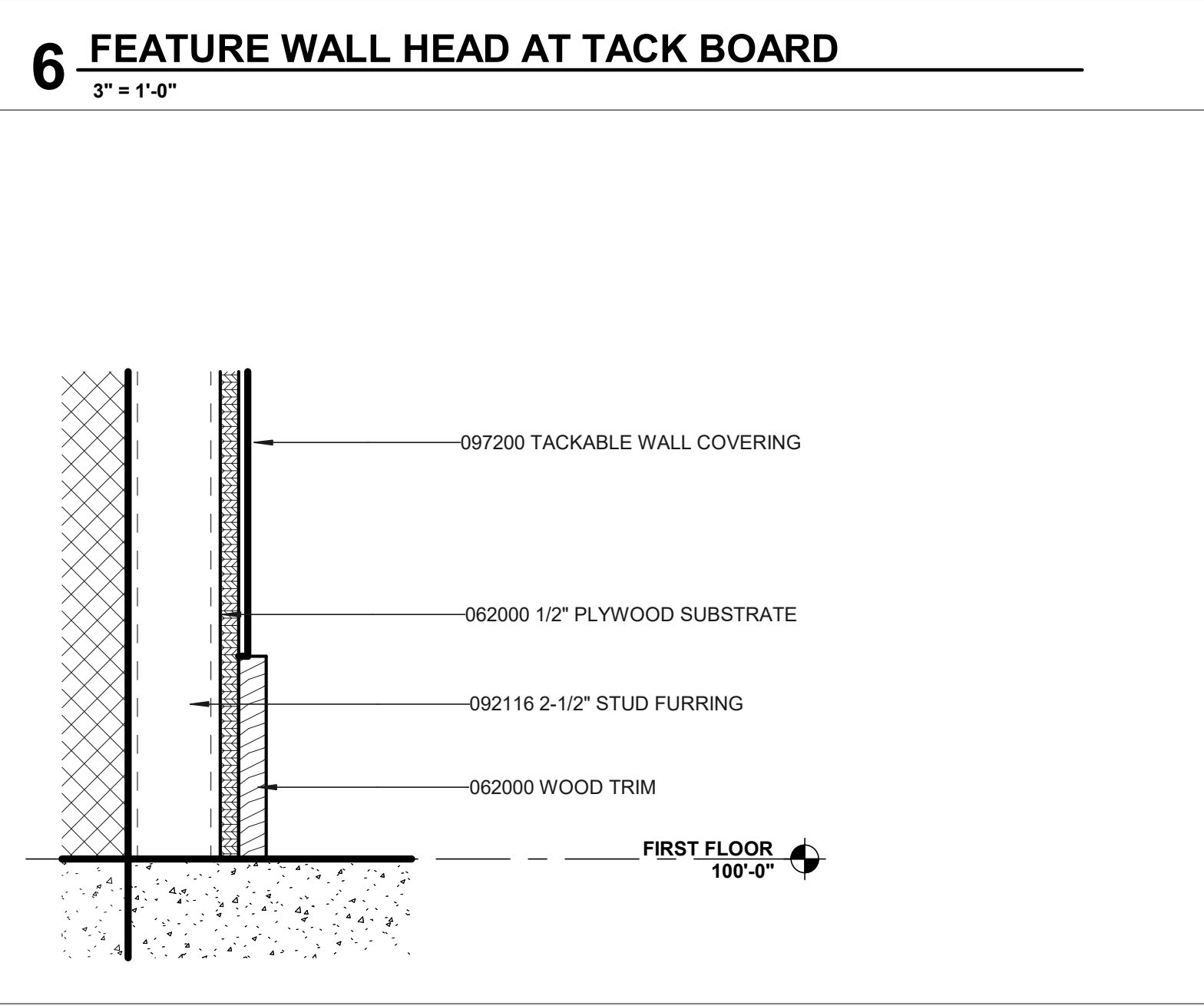
5 FEATURE WALL HEAD AT STEEL PLATE
 3" = 1'-0"



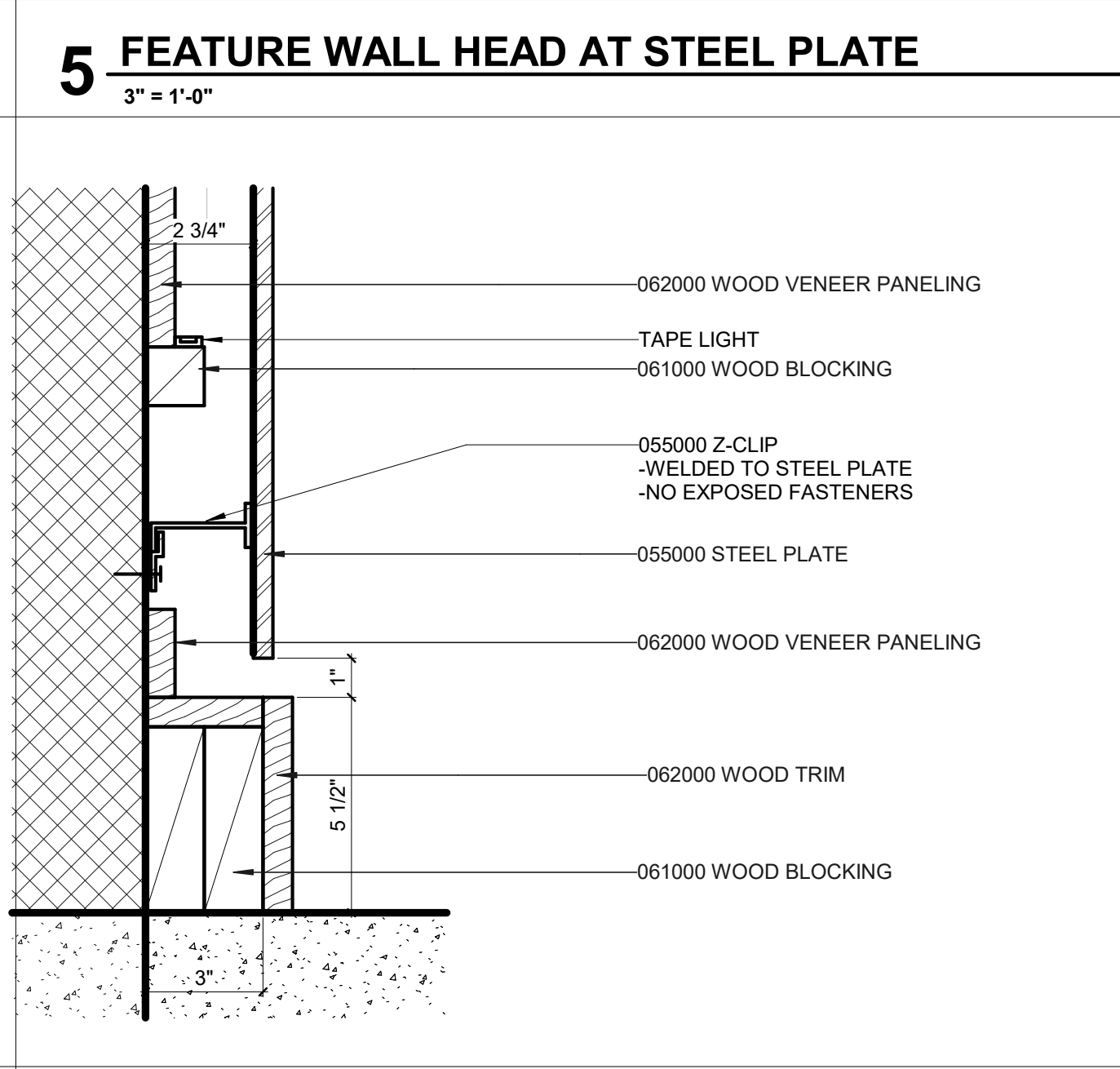
4 DETAIL
 3" = 1'-0"



3 DETAIL
 3" = 1'-0"



2 BASE AT TACKABLE SURFACE
 3" = 1'-0"



1 BASE AT STEEL PLATE
 3" = 1'-0"

PWS BPPH LLS W02250111







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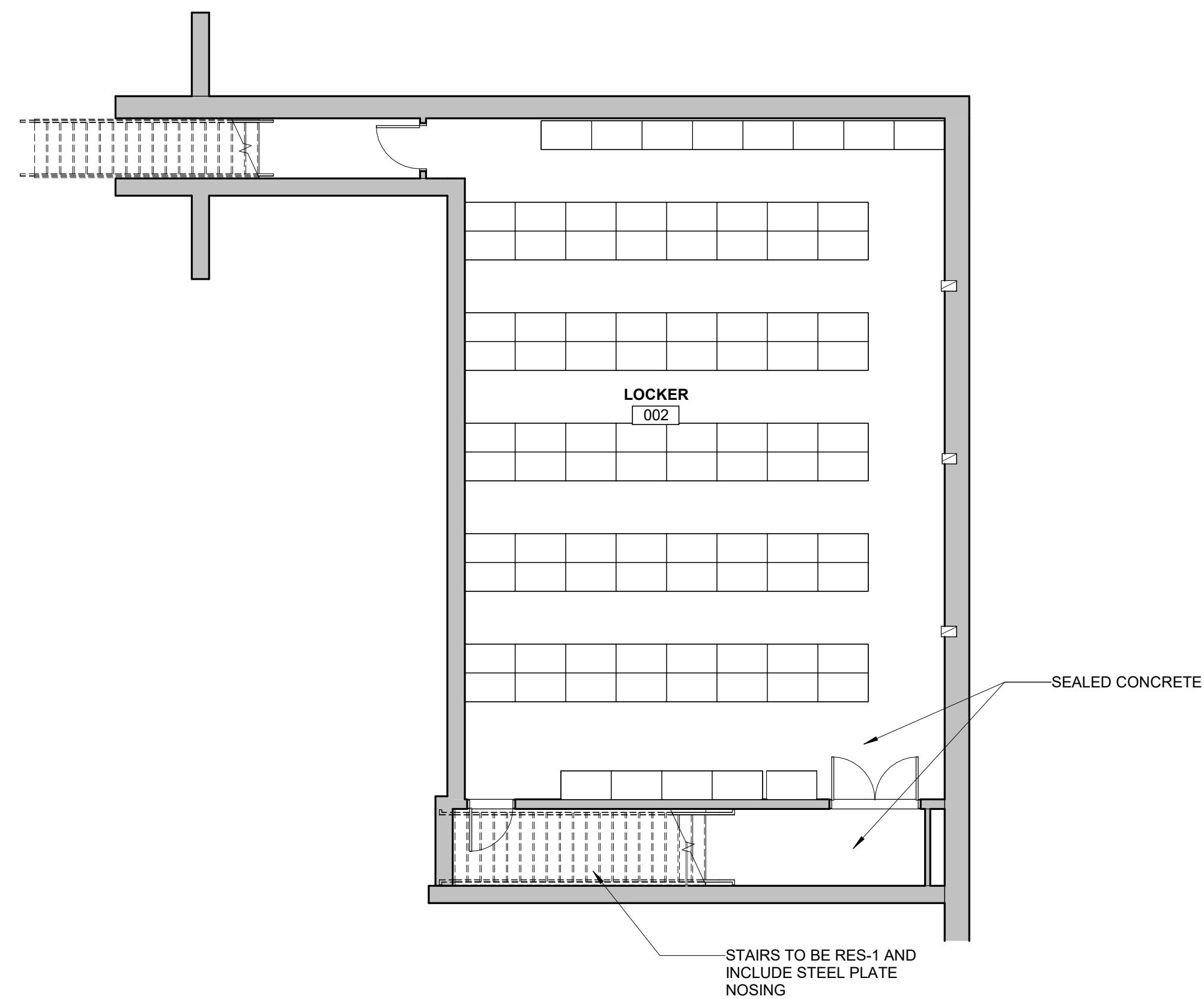
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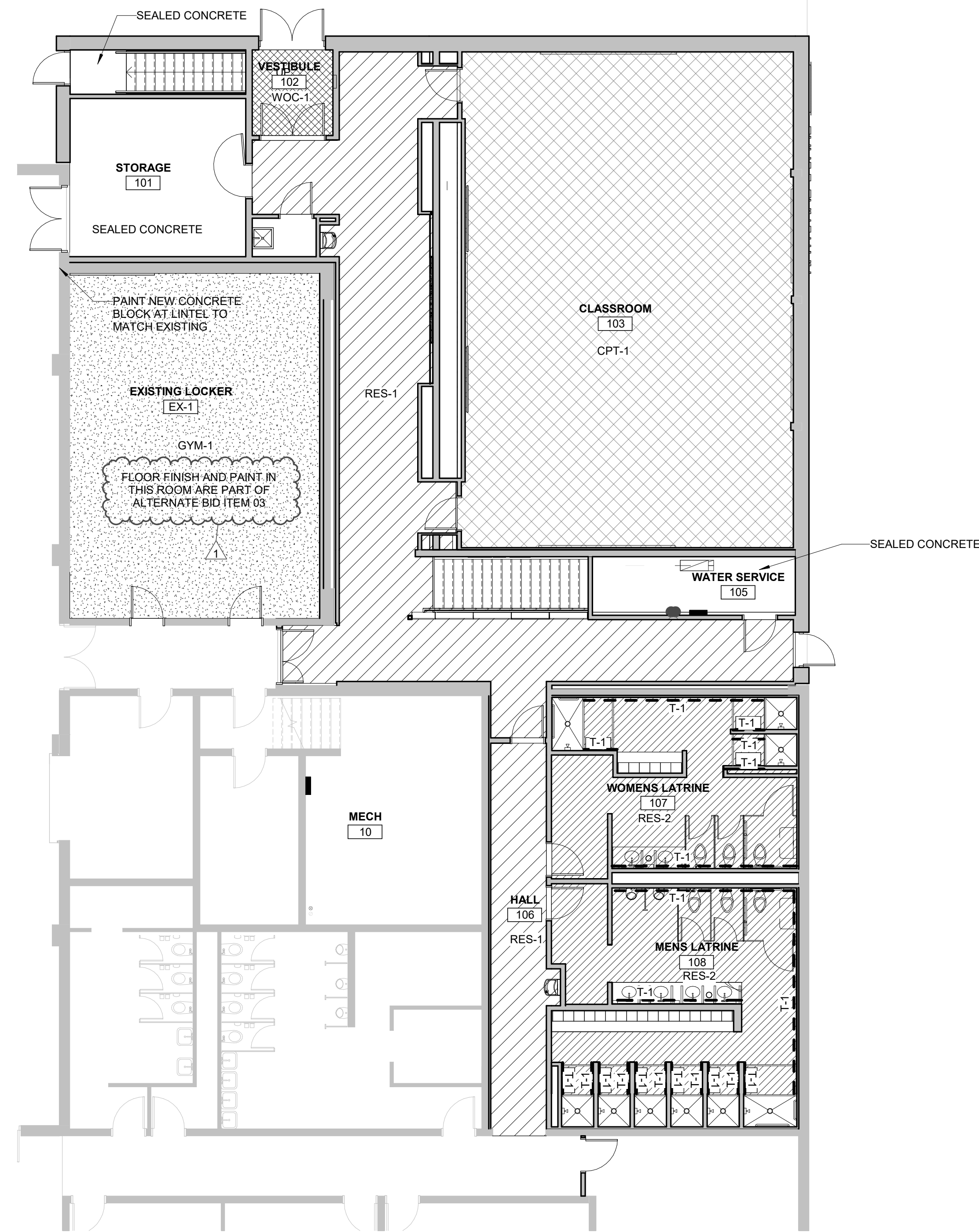
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FINISHES LEGEND

-  RES-1
-  RES-2
-  CPT-1
-  WOC-1
-  GYM-1
-  T-1



2 BASEMENT FINISH PLAN
 1/8" = 1'-0"

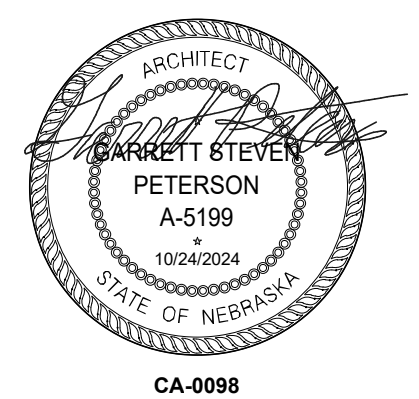


1 FIRST FLOOR FINISH PLAN
 1/8" = 1'-0"

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FINISH PLANS



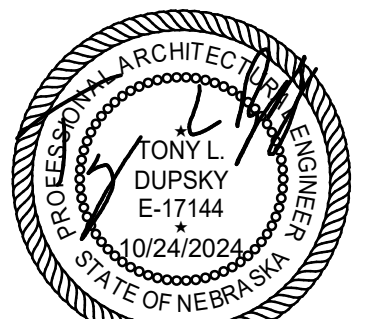
A9.1

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FIRST FLOOR MECHANICAL PLANS

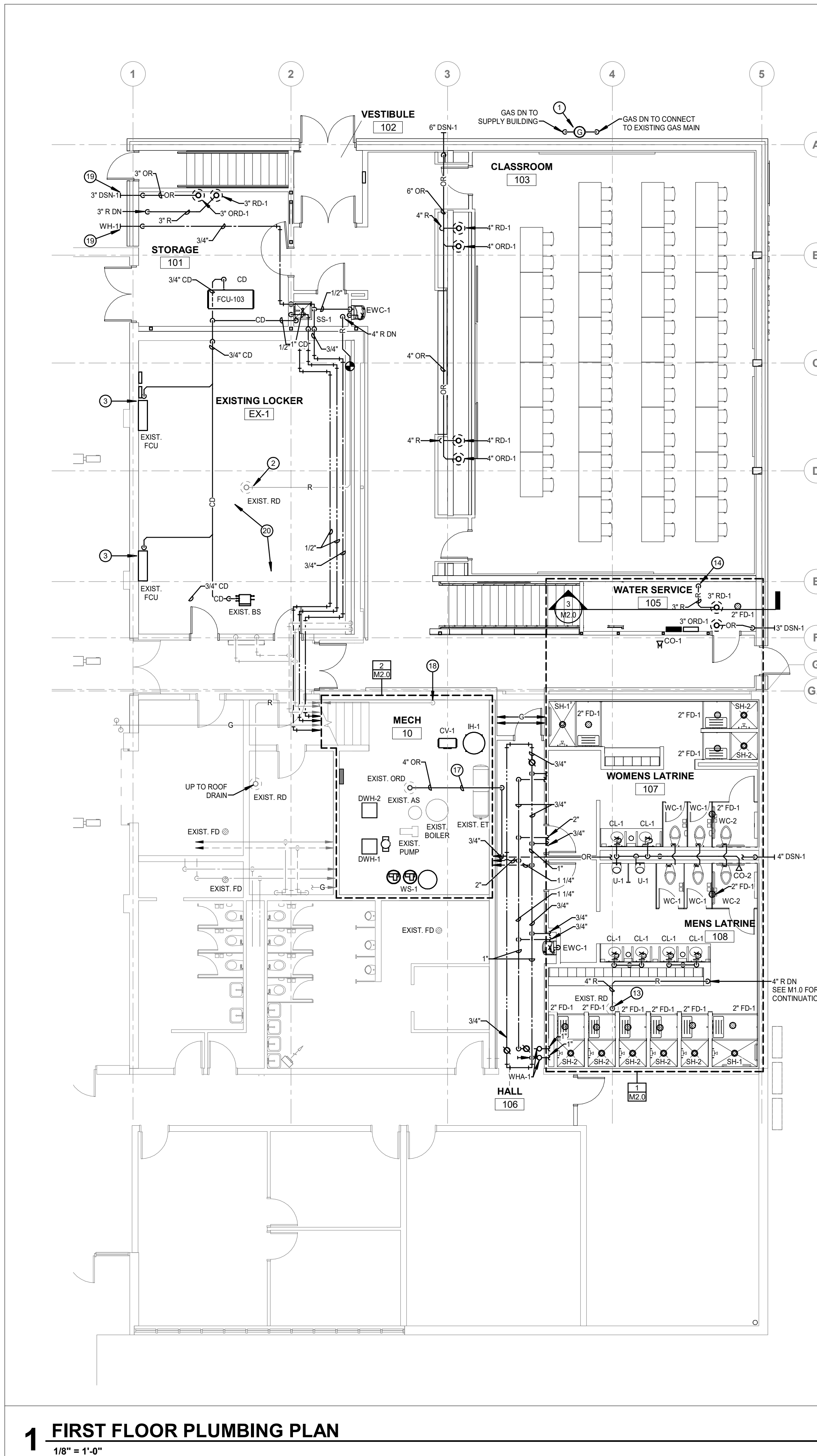
NORTH



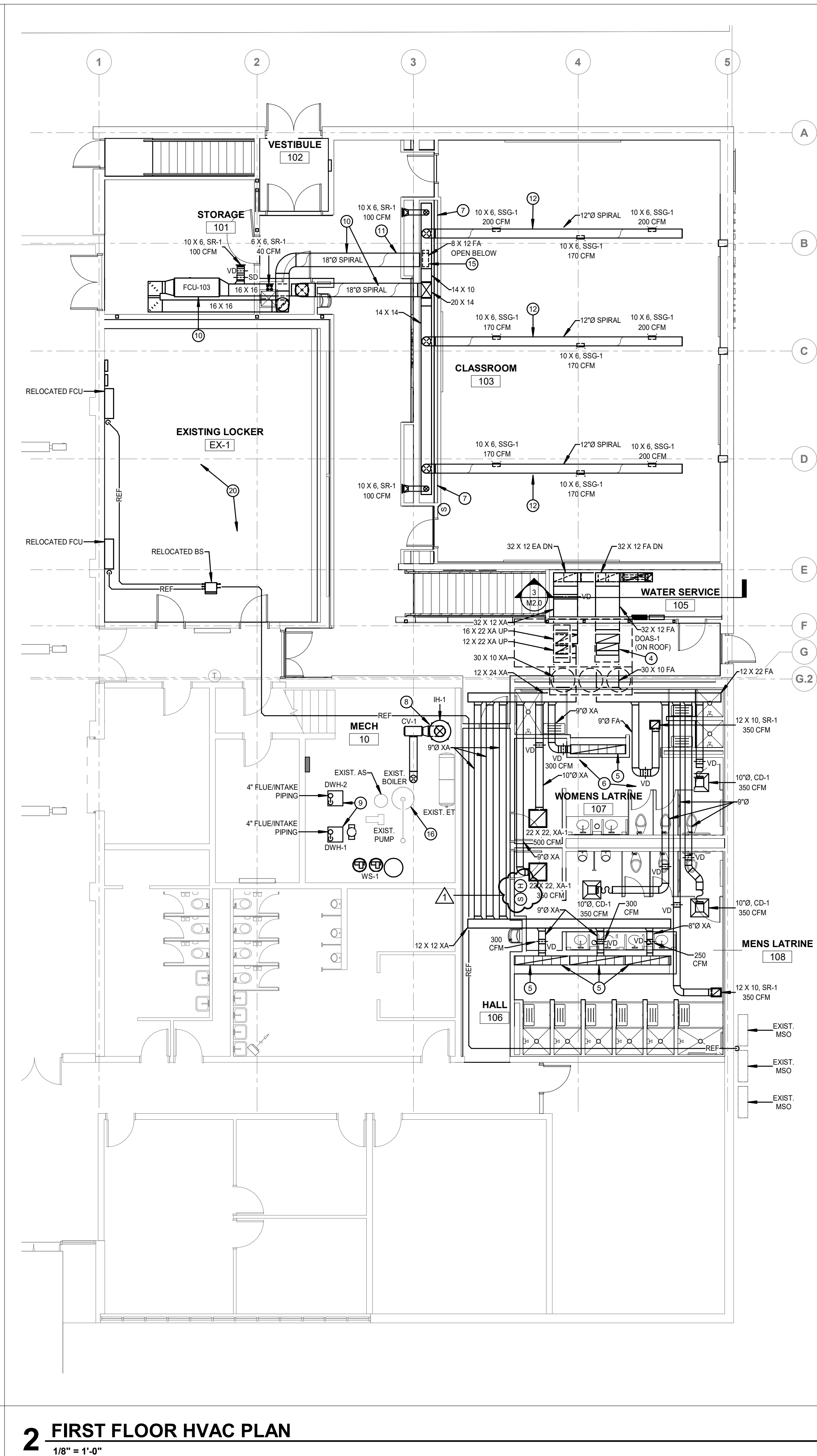
M1.1

GENERAL NOTES

- A EXPOSED DUCTWORK TO BE PROVIDED WITH GASKETED FITTINGS SUCH AS DUCTMATE OR EQUAL AND SUSPENDED WITH AIR CRAFT CABLE.
- ④ **SHEET NOTES**
 - 1 NEW GAS METER AND SERVICE TO BE PROVIDED BY LOCAL UTILITY. COORDINATE CONNECTION REQUIREMENTS AND ANY ADD TO CONSTRUCTION COSTS. BASED ON PRELIMINARY DISCUSSION WITH THE LOCAL UTILITY THE ANTICIPATED AID TO CONSTRUCTION COST IS \$7,500. EXTEND NEW GAS PIPING THROUGH LOCKER ROOM SPACE. SEE SHEET M1.0. COORDINATE CONNECTION REQUIREMENTS FOR ENERGY MANAGEMENT SYSTEM. PROVIDE PULSE KIT IF REQUIRED TO MONITOR.
 - 2 CONNECT TO EXISTING 4" RAINWATER UP HIGH AND EXTEND INTO NEW STORAGE ROOM. CONNECT TO NEW BELOW GRADE RAINWATER PIPING AS SHOWN.
 - 3 RELOCATED MINI-SPLIT FAN COIL UNITS TO BE MOUNTED ON WALL BELOW CEILING. EXTEND CONDENSATE DRAIN ABOVE LAY-IN CEILING AS SHOWN.
 - 4 EXTEND DUCTWORK FROM DOAS BETWEEN BEAMS. EXTEND 30 X 10 FRESH AIR AND EXHAUST AIR TO LATRINES AND 32 X 12 DOWN TO LOCKER ROOM.
 - 5 PROVIDE SHEET METAL PLENUM ON TOP OF LOCKERS CONCEALED IN SOFFIT. COORDINATE WITH SLOTS/VENTS PROVIDED IN TOP OF LOCKERS.
 - 6 EXTEND DUCTWORK THROUGH WEBBING OF JOISTS. PROVIDE VOLUME DAMPER FOR BALANCING ABOVE LAY-IN CEILING.
 - 7 OPEN RETURN AIR SLOT TO BE IN THE TOE KICK AREA OF THE WALL. COORDINATE REQUIREMENTS WITH GENERAL CONTRACTOR.
 - 8 NEW INTAKE HOOD (IH-1) EXTEND 14" DUCT TO COMBUSTION VENTILATOR (CV-1). INTERCONNECT CV-1 TO EXISTING BOILER AND PROVIDE DIFFERENTIAL PRESSURE SENSOR AS REQUIRED TO MAINTAIN MINIMUM ROOM PRESSURIZATION. EXTEND DISCHARGE DUCT TO WINTIN 3' OF BOILER BURNER INTAKE OPENING.
 - 9 NEW DOMESTIC WATER HEATER. PROVIDE HOUSE KEEPING PAD. EXTEND 4" PVC FLUE AND INTAKE PIPING THROUGH ROOF. PROVIDE CONCENTRIC ROOF TERMINATION KIT. MAINTAIN 10' MINIMUM CLEARANCE FROM INTAKE HOOD.
 - 10 FCU-4 TO BE SUSPENDED AS HIGH AS POSSIBLE. EXTEND SUPPLY AND RETURN DUCTWORK AS HIGH AS POSSIBLE.
 - 11 EXTEND RETURN DUCT INTO PLENUM SPACE.
 - 12 EXTEND SUPPLY DUCT AS HIGH AS POSSIBLE NEXT TO GLUE LAM BEAM. SUPPLY REGISTER TO BE INSTALLED APPROX. 45 DEG. FROM HORIZONTAL. SEE DETAIL ON SHEET M3.0.
 - 13 CONNECT NEW 4" ROOF DRAIN PIPING TO EXISTING ROOF DRAIN. EXTEND PIPING TO 5'-0" OUTSIDE THE BUILDING AS SHOWN ON SHEET M1.0. COORDINATE LOCATION AND ELEVATION WITH UTILITY CONTRACTOR.
 - 14 EXTEND 1" DOMESTIC COLD WATER FOR YARD IRRIGATION. PROVIDE ISOLATION VALVE, DEDUCT METER AND DRAIN DOWN VALVE. COORDINATE REQUIREMENTS WITH IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR TO PROVIDE VACUUM BREAKER BACKFLOW AT THE EXTERIOR OF THE BUILDING.
 - 15 8 X 12 FRESH AIR OPEN ENDED IN CHASE. EXTEND DUCT DOWN TO LOCKER ROOM. BALANCE TO 550 CFM.
 - 16 EXISTING HEATING HOT WATER SYSTEM CONTROLS TO REMAIN. PROVIDE SENSORS, RELAYS, ETC. AS REQUIRED TO MONITOR SYSTEM OPERATION AND PROVIDE ALARMS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - 17 EXTEND PIPING FROM EXISTING OVERFLOW DRAIN AS HIGH AS POSSIBLE THROUGH STRUCTURE. COORDINATE CEILING REMOVAL AND PATCHING WITH GENERAL CONTRACTOR.
 - 18 EXTEND EXISTING 4" RAINWATER/OVERFLOW DOWN TO A LEVEL BELOW GRADE OF THE ADJACENT NORTH CORRIDOR. EXTEND PIPING THROUGH MECH ROOM WALL AND CONNECT TO NEW RAINWATER/OVERFLOW PIPING.
 - 19 NEW DOWN SPOUT NOZZLE (DSN-1) AND WALL HYDRANT (WH-1) TO BE INSTALLED APPROX. 10' ABOVE GRADE AND BE INSTALLED ABOVE FULLY GROUTED CMU BLOCK.
 - 20 UNDER BASE BID, CONTRACTOR SHALL REMOVE AND REINSTALL CEILING TILES AS REQUIRED FOR INSTALLATION OF PIPING, DUCTWORK, ETC. UNDER AIR IS A NEW CEILING WILL BE INSTALLED AS SHOWN ON THE ARCHITECTURAL PLANS.



1 FIRST FLOOR PLUMBING PLAN
 1/8" = 1'-0"



2 FIRST FLOOR HVAC PLAN
 1/8" = 1'-0"

SHEET NOTES

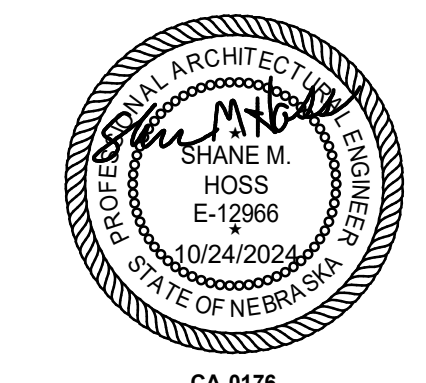
- NEW LOCATION OF EXISTING MINI-SPLIT INDOOR UNIT AND BRANCH SELECTOR BOX, EXTEND EXISTING CIRCUITS AS REQUIRED.
 - COORDINATE FLOOR BOX LOCATIONS AND INSTALLATION WITH HOLLOWCORE SUPPLIER, (TYPICAL).
 - PROVIDE AND CONNECT TO NEW CIRCUIT BREAKER IN EXISTING PANEL, SIZED AS NOTED, (TYPICAL).
 - EXPOSED CONDUIT AND BOXES IN THE HALLWAYS, CLASSROOM, AND SIMILAR AREAS ARE NOT ALLOWED UNLESS APPROVED BY DESIGN TEAM AND OWNER. CONTRACTOR SHALL RECEIVED APPROVAL AND COORDINATE THE EXACT LOCATION AND ROUTING OF ANY PROPOSED EXPOSED CONDUIT AND BOXES WITH DESIGN TEAM PRIOR TO ROUGH-IN, (TYPICAL).
 - PROPOSED ROUTING FOR CONDUITS SERVING PANEL E AND DOAS-1. EXPOSED CONDUITS SHALL BE KEPT TO A MINIMUM. INSTALL CONDUITS WHERE NOTED ALONG PROPOSED ROUTE. PULL-POINTS / JUNCTION BOXES ARE NOT SHOWN. CONTRACTOR SHALL LOCATE AS REQUIRED AND PER THE NEC. FIELD VERIFY ALL EXISTING CONDITIONS.
 - WHERE EXPOSED IN THE NEW ADDITION, ROUTE AS HIGH AND TIGHT AS POSSIBLE TO STRUCTURAL BEAMS, MINIMIZE EXPOSED CONDUITS.
 - COORDINATE LOCATION OF RECEPTACLE SERVING WATER HEATER WITH PLUMBING CONTRACTOR, (TYPICAL).
 - UNDER BASE BID, CONTRACTOR SHALL REMOVE AND REINSTALL THE EXISTING CEILING TILES AS REQUIRED FOR INSTALLATION OF ELECTRICAL INFRASTRUCTURE. UNDER ABI #2, A NEW CEILING WILL BE PROVIDED IN THIS ROOM.
- SEE SHEET E3.1 FOR WALL BOX REQUIREMENTS, (TYPICAL).

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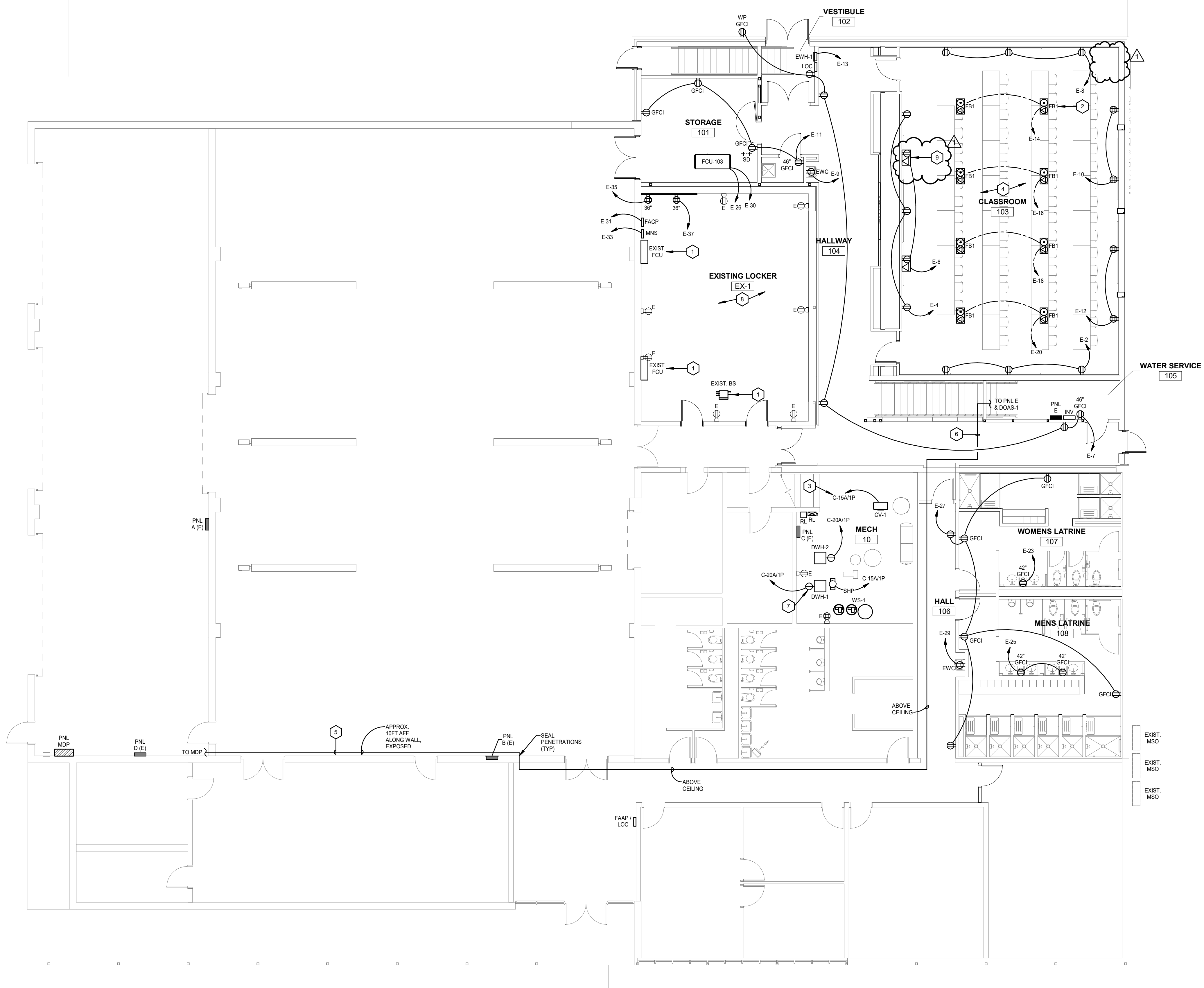


FIRST FLOOR POWER PLAN

NORTH



E2.1



1 FIRST FLOOR POWER PLAN
 1/8" = 1'-0"

NW 235568 10/24/2024

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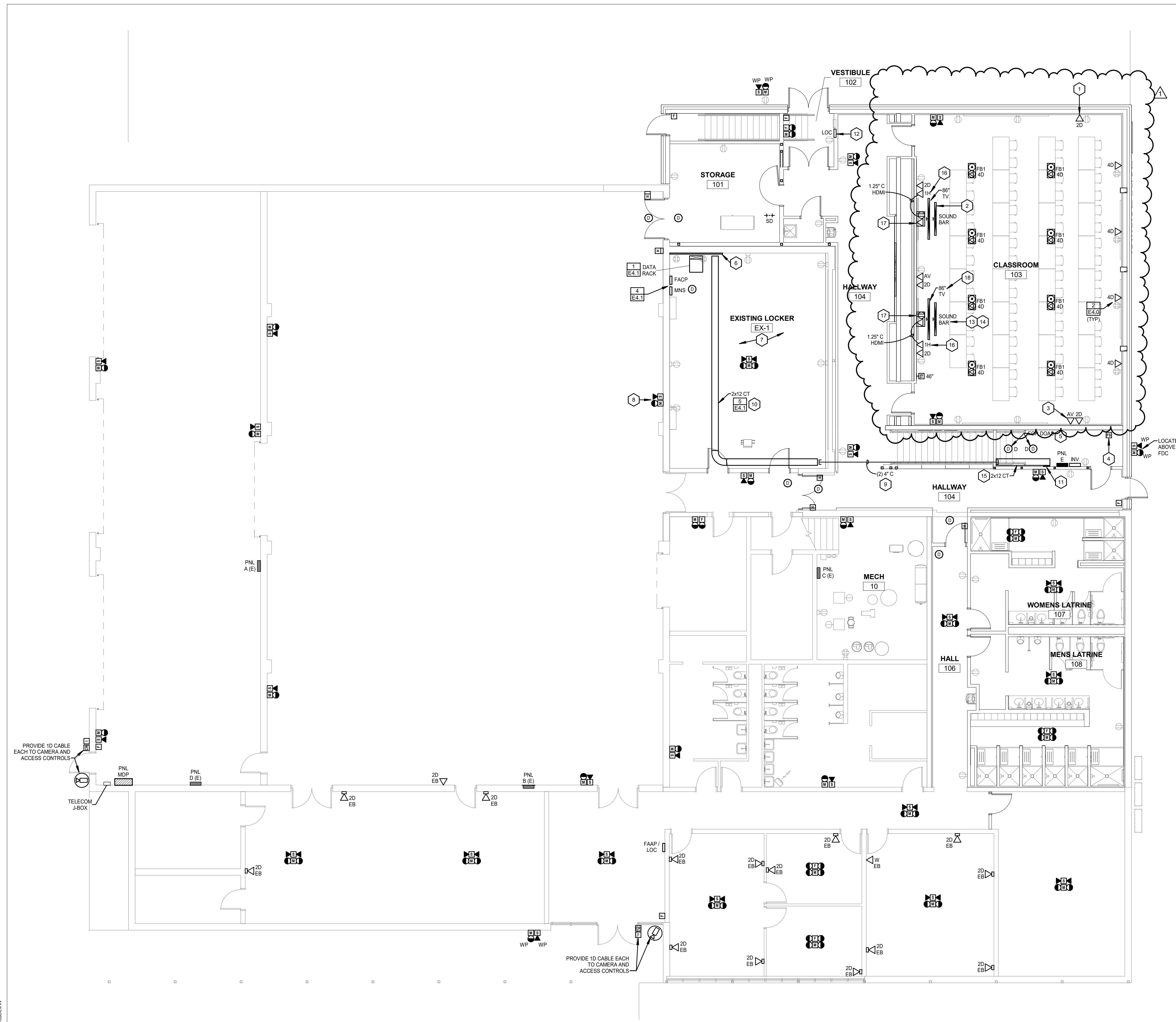
FIRST FLOOR TECHNOLOGY PLAN



E3.1

SHEET NOTES

- ROUTE CONDUIT SERVING COMMUNICATION OUTLETS IN CLASSROOM 103 DOWN TO ABOVE ACCESSIBLE CEILING IN LOCKER ROOM BELOW. (TYPICAL).
- SEE SHEET E4.1 FOR FURTHER AV SYSTEM REQUIREMENTS.
- PROVIDE BOX(ES) WITH CONDUIT(S) TO ABOVE ACCESSIBLE CEILING IN BASEMENT BELOW. SIZE CONDUIT AND BOXES AS REQUIRED FOR CABLING REQUIRED FOR AV SYSTEM.
- PROVIDE FIRE ALARM CONNECTION TO FLOW/TAMPER SWITCHES. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.
- PROVIDE DUCT DETECTION IN SUPPLY AND RETURN DUCTS FOR HVAC UNIT. PROVIDE SHUTDOWN RELAYS AND CONNECT TO UNIT AND FIRE ALARM SYSTEM AS REQUIRED.
- PROVIDE A 4FT x 8FT x 3/4" THICK, VOID-FREE, PLYWOOD TELECOM BOARD. PAINT WITH (2) COATS OF FIRE-RESISTANT ENAMEL.
- UNDER BASE BID, CONTRACTOR SHALL REMOVE AND REINSTALL THE EXISTING CEILING TILES AS REQUIRED FOR INSTALLATION OF TECHNOLOGY INFRASTRUCTURE. UNDER ABI #2, A NEW CEILING WILL BE PROVIDED IN THIS ROOM.
- FIRE ALARM DEVICES INSTALLED ON EXISTING WALLS SHALL BE SURFACE MOUNTED WITH MATCHING BACK BOX. PROVIDE EXPOSED, SURFACE-MOUNTED CONDUIT. CONDUIT SHALL BE PAINTED PER ARCHITECT'S DIRECTIVE. (TYPICAL).
- PROVIDE TELECOMMUNICATIONS CONDUITS, SIZED AS NOTED. ROUTE AS HIGH AS POSSIBLE, APPROXIMATELY 8'-4" AFF. CAP BOTH SIDES OF CONDUIT WITH PLASTIC BUSHINGS.
- PROVIDE WIRE-MESH CABLE TRAY, SIZED AS NOTED. INSTALL ABOVE ACCESSIBLE CEILING. COORDINATE INSTALLATION WITH OTHER TRADES TO MAINTAIN ACCESS TO TRAY. SEE ASSOCIATED DETAIL FOR FURTHER REQUIREMENTS.
- PROVIDE A 12" WIDE LADDER RACK, MOUNTED VERTICALLY ON WALL BELOW CABLE TRAY TO JUST ABOVE TELECOM CONDUITS SERVING BASEMENT AREA FOR VERTICAL CABLING SUPPORT.
- LOC SHALL BE RECESSED IN WALL, WITH HINGED-TRIM DOOR FOR ACCESS.
- INSTALL SOUND BAR ABOVE TV ON SOUND BAR MOUNTING KIT PROVIDED WITH WALLBOX. (TYPICAL).
- PROVIDE (2) 1.5" CONDUIT SLEEVES BETWEEN BACK BOXES THAT MAKE UP A SINGLE TV WALL BOX. PROVIDE (2) 1.5" CONDUIT SLEEVES BETWEEN EACH TV WALLBOX.
- INSTALL CABLE TRAY HIGH AS POSSIBLE, BELOW DUCTWORK, PIPING, ETC. COORDINATE INSTALLATION WITH OTHER TRADES TO MAINTAIN ACCESS TO TRAY.
- PROVIDE HDMI CABLE AND CONNECT TO ADJACENT TV, HDMI SOURCE: 2 INPUT.
- PROVIDE A MULTISERVICE AV WALL BOX, LEGRAND CHIEF MODEL FPIWMS WITH (2) IN WALL BOXES (#FPIWSBX), STUD TAB KIT (#FPIWMTK1), STORAGE AND TV MOUNT KIT (#FPIWMT2), 65MM EXTENDERS (#FHB5174), SOUND BAR MOUNT (#FPIWMA101). UTILIZE LEVEL LOCK PLATES TO PROVIDE 1RU OF SPACE FOR AV EQUIPMENT TO MOUNT WITHIN BOX. PROVIDE A DUPLEX RECEPTACLE IN EACH SPLIT BOX, (2) PER WALL BOX).
- COORDINATE THE EXACT MOUNTING HEIGHTS OF TV, WALL BOX, SOUND BAR, ETC. WITH DESIGN TEAM PRIOR TO ROUGH-IN. (TYPICAL).



1 FIRST FLOOR TECHNOLOGY PLAN
 1/8" = 1'-0"

REVISED 10/24/2024

REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
1	11/12/2024	ADD No. 1

Wahoo Readiness Center Addition

PROJECT: 24021 DATE: 10/24/2024
 © COPYRIGHT BVH ARCHITECTURE

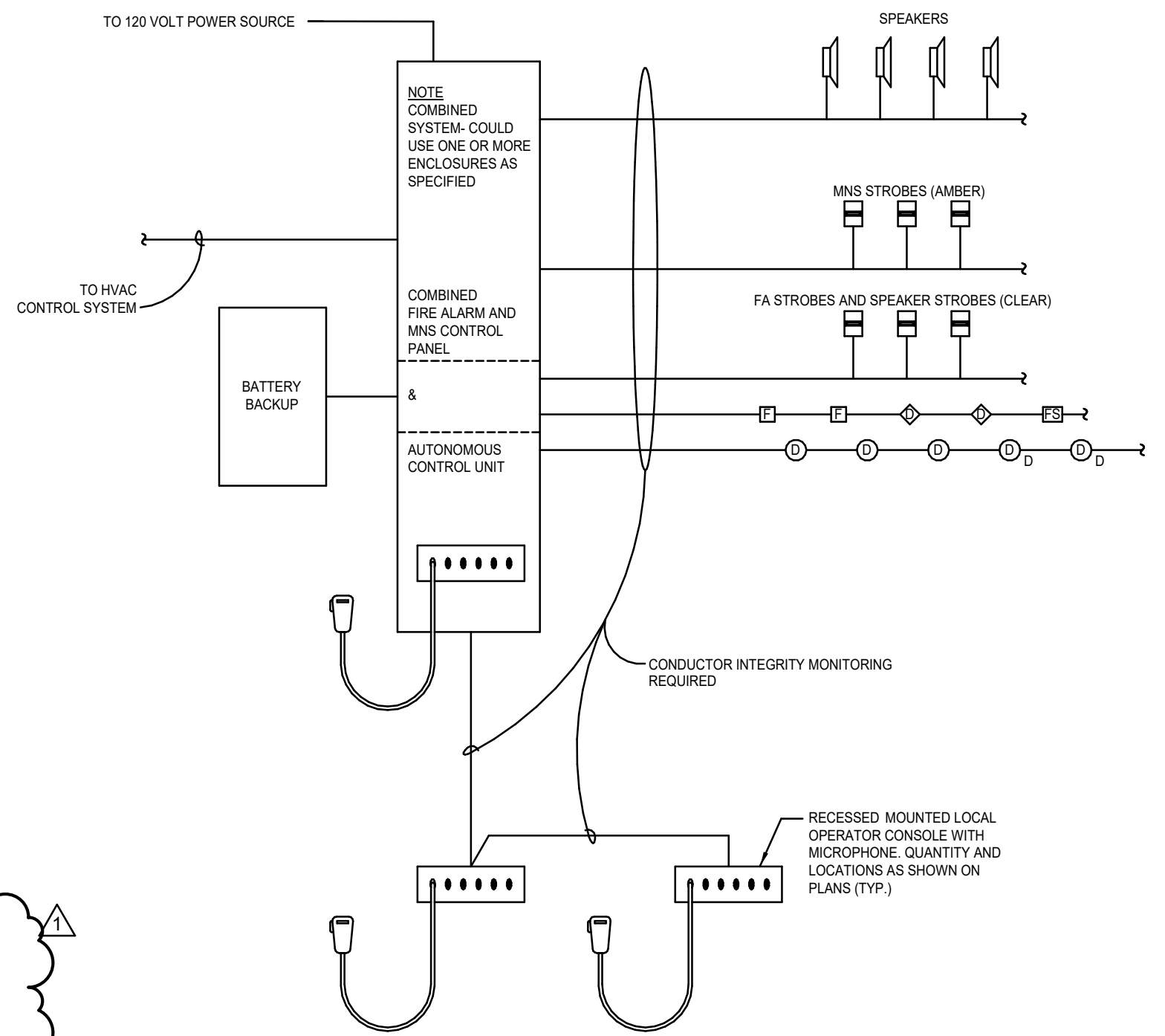


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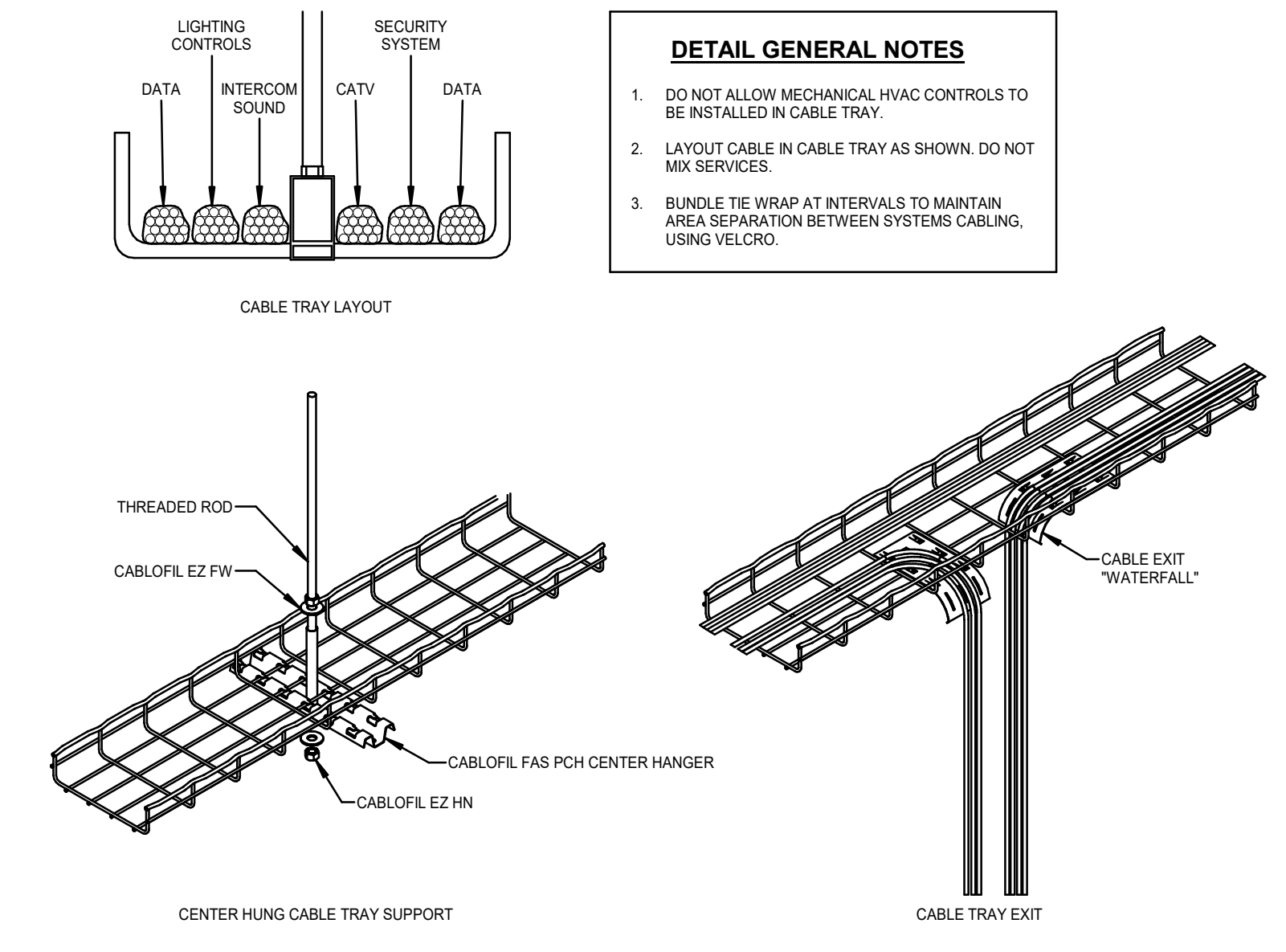
TECHNOLOGY DETAILS

NORTH

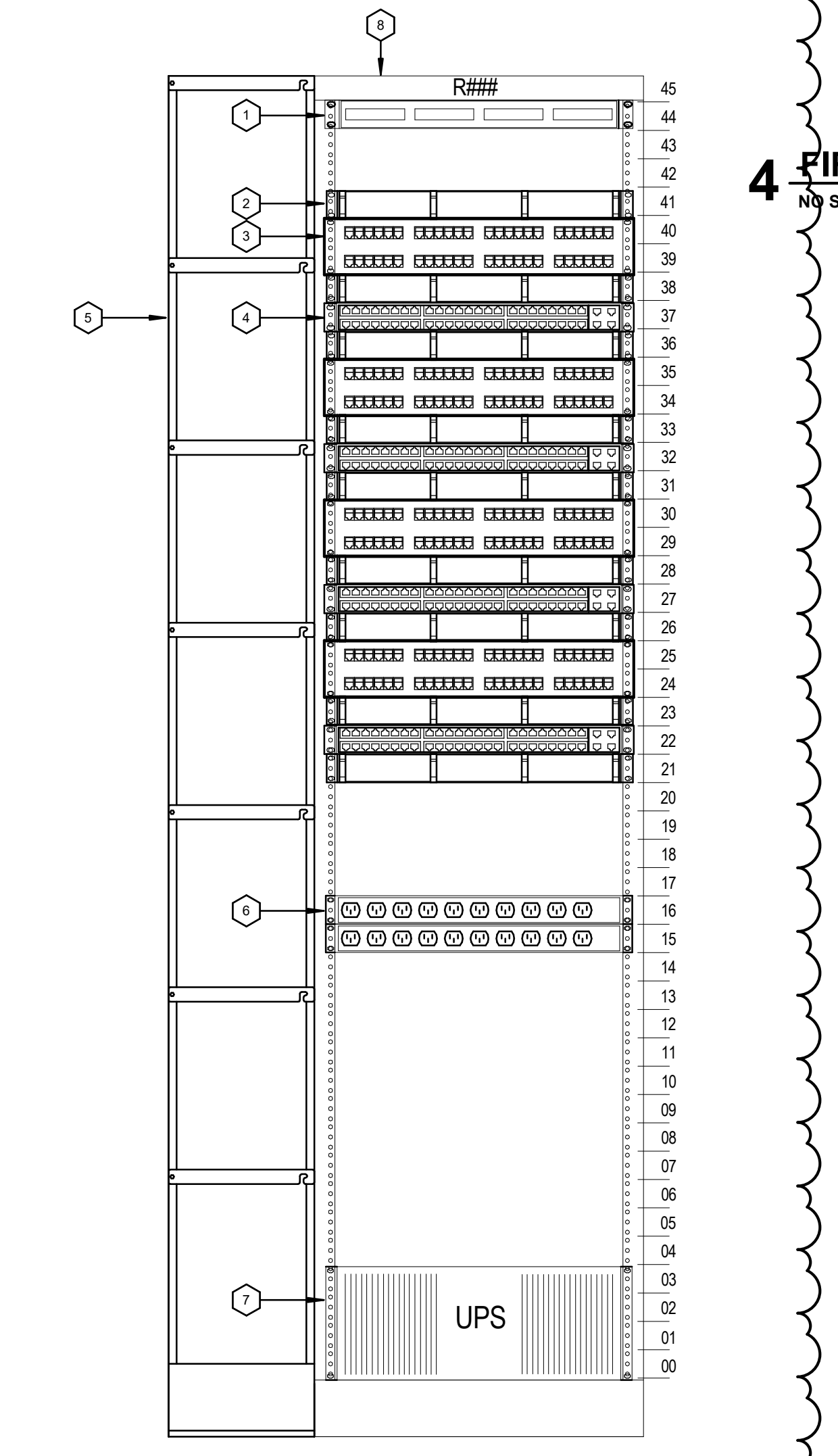
- # SHEET NOTES**
1. PROVIDE FIBER TERMINATION PANEL(S). LOCATE AT TOP OF RACK.
 2. PROVIDE 1U HORIZONTAL CABLE MANAGEMENT BETWEEN EACH PATCH PANEL / NETWORK SWITCH. (TYPICAL).
 3. PROVIDE 48-PORT MODULAR PATCH PANELS. PROVIDE QUANTITY AS REQUIRED FOR CABLE QUANTITY SHOWN ON PLANS WITH 25% ADDITIONAL SPARE CAPACITY. DROPS FOR WIRELESS ACCESS POINTS, BUILDING AUTOMATION, AND SECURITY SYSTEMS SHALL BE CONSOLIDATED ON THE LAST PANEL. (TYPICAL).
 4. PROVIDE SPACING FOR OWNER NETWORK SWITCH / EQUIPMENT. (TYPICAL).
 5. PROVIDE A 6" WIDE VERTICAL CABLE MANAGEMENT ON ONE SIDE OF RACK.
 6. PROVIDE HORIZONTAL POWER STRIP WITH SURGE PROTECTION. CHATSWORTH MODEL 12816 OR APPROVED EQUAL. (TYPICAL).
 7. UPS PROVIDED BY OWNER.
 8. PROVIDE A 4-POST, FULLY ENCLOSED FLOOR RACK WITH SOLID FRONT DOOR.
 9. PROVIDE CABLING AS REQUIRED FOR FULLY FUNCTIONAL AND OPERATIONAL AV SYSTEM. (TYPICAL).
 10. PROVIDE AV-OVER-IP WALL PLATE ENCODER. INSTALL WITHIN "AV" DESIGNATED COMMUNICATION OUTLETS NOTED ON THE PLANS. CRESTRON MODEL DM-NVX-E20-2G-B-T.
 11. PROVIDE POE MULTICAST NETWORK SWITCH, SIZED AS REQUIRED FOR AV SYSTEM.
 12. PROVIDE AV-OVER-IP ENCODER/DECODER. CRESTRON MODEL DM-NVX-360.
 13. PROVIDE CRESTRON #CP4 SERIES CONTROL PROCESSOR.
 14. PROVIDE 1:2 HDMI DISTRIBUTION AMPLIFIER. CRESTRON MODEL HD-DA2-4K2-E.
 15. PROVIDE (2) SPEAKER BARS (ONE AT EACH TV), WITH INTEGRAL MICROPHONE. PROVIDE WITH CENTRAL HUB FOR ACOUSTIC ECHO CANCELLATION. NUREVA PRO SERIES MODEL HDL410.
 16. PROVIDE VIDEO DISPLAY, SAMSUNG #UN50N8500F 86" DISPLAY WITH LANDSCAPE ORIENTATION, 4K RESOLUTION, HDMI AND RS-232 INPUTS, OR EQUAL BY I.G.
 17. PROVIDE PLUG STRIP WITH INTEGRAL SURGE PROTECTION.
 18. INSTALL EQUIPMENT WITHIN TV WALL BOXES. COORDINATE AND ALLOCATE AS NEEDED. PROVIDE WITH MOUNTING HARDWARE AS REQUIRED.



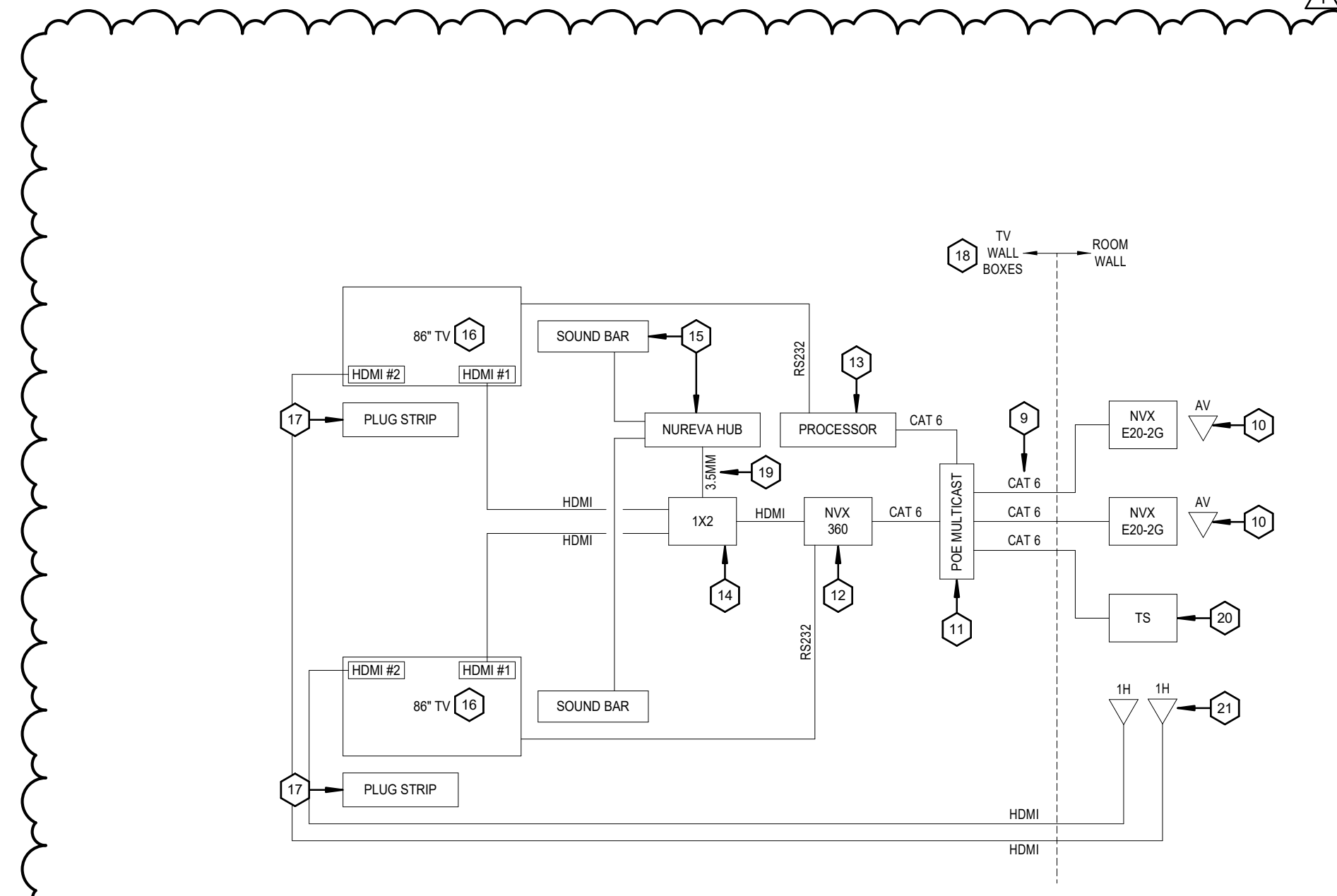
4 FIRE ALARM / MASS NOTIFICATION SYSTEM WIRING DIAGRAM
 NO SCALE



5 CABLE TRAY CABLING LAYOUT DETAIL
 NO SCALE



1 DATA RACK ELEVATION
 NO SCALE



3 AV SYSTEM DIAGRAM - CLASSROOM 103
 NO SCALE

- AV SYSTEM DIAGRAM GENERAL NOTES:**
1. PROVIDE CABLING AS RECOMMENDED BY THE MANUFACTURER(S).
 2. AV DATA CABLING SHALL BE GREEN.
 3. HDMI CABLES SHALL BE CABLES TO GO #4K ACTIVE HDMI CABLES, OR EQUAL. PROVIDE WITH COMPATIBLE WALL PLATES AND BACKBOXES.
 4. USB CABLING SHALL BE CABLES TO GO #USB 3.0 ACTIVE EXTENSION CABLE SERIES, OR EQUAL.
 5. PROVIDE ADDITIONAL DEVICES, ACCESSORIES, AND HARDWARE AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
 6. PROVIDE VELCRO STRAPS AS REQUIRED TO BUNDLE CABLING IN A NEAT AND WORKMAN LIKE MANNER BEHIND EACH TV.
 7. PROVIDE RECORD DOCUMENTS INDICATING FINAL DEVICE LAYOUTS AND WIRING.
 8. CABLING BETWEEN DEVICES OR BOXES SHALL BE INSTALLED IN A MINIMUM 1" CONDUIT. HDMI CABLING SHALL BE INSTALLED IN A 1.25" CONDUIT. PROVIDE WITH COMPATIBLE BACK BOXES.
- AV SYSTEM SEQUENCE OF OPERATIONS:**
- PROGRAM TV DISPLAYS TO AUTO SOURCE TO HDMI #1 INPUT WHEN A DEVICE IS CONNECTED TO EITHER AV INPUT WALL PLATE.
 - TV DISPLAYS SHALL DUPLICATE CONTENT FROM EITHER AV INPUT PLATE.
 - SYSTEM SHALL AUTO DETECT THE LAST INPUT FROM ANY AV INPUT WALL PLATE AND TURN ON TV DISPLAYS.
 - SYSTEM SHALL SHUT DOWN TV DISPLAYS AFTER 30-MINUTES OF NO ACTIVITY.
 - TOUCHSCREEN MAIN SPLASH SCREEN SHALL SHOWN ON/OFF BUTTONS THAT TURN ON/OFF BOTH TV DISPLAYS. THE SECOND SCREEN SPLASH PAGE SHALL ALLOW HDMI SOURCE SELECTION FOR EACH TV DISPLAY THROUGH SELECTABLE BUTTONS.

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:
 A. MOUNTING HEIGHT IS TO BOTTOM OF LIGHT FIXTURE, UNLESS OTHERWISE NOTED.
 B. FOR ALL EXTERIOR POLES, PROVIDE WITH VIBRATION DAMPENERS. PROVIDE WITH PAINT OVER PRIMER FINISH, SEE SECTION 26 5600 FOR FURTHER REQUIREMENTS.

NOTES:
 1. N/A

TYPE	DESCRIPTION	LAMP	COLOR TEMP.	LUMENS	WATTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
1A	4FT STRIP LIGHT, WHITE FINISH	LED	4000K	4,000	35W	WALL MOUNTED	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI-BAA	METALUX	-
1B	4FT STRIP LIGHT, WHITE FINISH, WITH INTEGRAL MOTION SENSOR	LED	4000K	4,000	35W	SUSPENDED	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI-SFR7CSS120/277-BAA	METALUX	-
1C	4FT STRIP LIGHT, WHITE FINISH	LED	4000K	4,000	35W	SUSPENDED	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI-BAA	METALUX	-
2	2X2 FLAT PANEL, 0-10V DIMMING	LED	4000K	3,200	26W	RECESSED, GRID	LITHONIA	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT-BAA	METALUX	-
2E	2X2 FLAT PANEL, 0-10V DIMMING, EMERGENCY BATTERY	LED	4000K	3,200	26W	RECESSED, GRID	LITHONIA	CPX-2X2-AL07-80CRI-SWW7-SWL-MVOLT-E10WLCB-BAA	METALUX	-
3A	1X4 FLAT PANEL, 0-10V DIMMING	LED	4000K	4,000	43W	RECESSED, GRID	LITHONIA	CPX-1X4-5000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT-BAA	METALUX	-
3B	1X4 FLAT PANEL, 0-10V DIMMING, DRYWALL GRID ADAPTER	LED	4000K	2,000	19W	RECESSED, GRID	LITHONIA	CPX-1X4-2000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT-BAA-DGA14	METALUX	-
4	2X4 FLAT PANEL, 0-10V DIMMING	LED	4000K	4,000	25W	RECESSED, GRID	LITHONIA	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-BAA	METALUX	-
4E	2X4 FLAT PANEL, 0-10V DIMMING, EMERGENCY BATTERY	LED	4000K	4,000	25W	RECESSED, GRID	LITHONIA	CPX-2X4-AL08-80CRI-SWW7-SWL-MVOLT-BAA-E10WLCB	METALUX	-
5	6IN CANLESS DOWNLIGHT, WET LOCATION RATED, WHITE FINISH	LED	4000K	1,200	14W	RECESSED	LITHONIA	WF6-LED-30K40K50K-90CRI-MW	HALO	-
6	PENDANT DISK FIXTURE, 16" DIAMETER, 0-10V DIMMING, WHITE FINISH	LED	4000K	3,950	52W	SUSPENDED	BROWNLEE	2700-WH-L52-WHC-40K-BAC	-	-
7	SURFACE DECORATIVE DISK FIXTURE, 14IN DIAMETER, 0-10V DIMMING, WHITE FINISH	LED	4000K	3,950	52W	SURFACE	BROWNLEE	2100-WH-L52-40K-BAC	-	-
8	4IN SURFACE CYLINDER WITH J-BOX, 0-10V DIMMING, WHITE FINISH	LED	4000K	1,500	16W	SURFACE	GOTHAM	IV04CYL-SC-D-15LM-40K-80CRI-WD-MIN1-MVOLT-ZT-L5-JBXCC-P-AR-LD-DWH	-	-
9	4IN RECESSED DOWNLIGHT, 0-10V DIMMING, WHITE FINISH	LED	4000K	1,000	11W	RECESSED	GOTHAM	IV04S-D-10LM-40K-80CRI-WD-MIN1-MVOLT-ZT-NCH-P-AR-LD-F	-	-
10	EXTERIOR WALL PACK WITH INTEGRAL MOTION SENSOR AND PHOTOCELL	LED	4000K	1,200	11W	WALL MOUNTED	LITHONIA	WDGE2-LED-P1-30K-80CRI-T2M-MVOLT-SRM-PIR1FC3V-DOBXD-BAA	-	-
10E	EXTERIOR WALL PACK WITH INTEGRAL MOTION SENSOR AND PHOTOCELL, WITH EMERGENCY BATTERY	LED	4000K	1,200	11W	WALL MOUNTED	LITHONIA	WDGE2-LED-P1-30K-80CRI-T2M-MVOLT-SRM-E20WC-PIR1FC3V-DOBXD-BAA	-	-
11	AREA POLE LIGHT, TYPE 3 DISTRIBUTION WITH HOUSE SIDE SHIELD, WITH FUSE, WITH 20FT ROUND STRAIGHT STEEL POLE	LED	4000K	6,200	51W	POLE MOUNTED, SEE DETAIL	LITHONIA	DSX0-LED-P2-30K-80CRI-T3M-MVOLT-RPA-PIR-HS-SF-BAA-DOBXD	-	-
12	LINEAR WALL GRAZE FIXTURE, 16FT LENGTH, 0-10V DIMMING, WHITE FINISH	LED	4000K	625 LMFT	5.6 W/FT	RECESSED	PRUDENTIAL	BPROZ-REC-FLSH-LED4-MQ-16FT-TMW-MGZ-SC-X7-DM01	-	-
13	RGBW TAPE LIGHT WITH LOW-PROFILE CHANNEL, WITH DMX CONTROL PANEL	LED	RGBW	-	5.8W/FT	SURFACE	LLI	LLI-LCC05-8W-20-R42-80-XX LLI-XS-TM-SA-F-XV LLI-C-CTRL-DMX-RGBW-TP	-	-
X1	EXIT SIGN, RED LETTERING ON MIRROR FINISH, DIRECTIONAL ARROWS AS REQUIRED.	LED	-	-	-	UNIVERSAL	LITHONIA	EDGR-1-RMR-BAA	-	-
X2	EMERGENCY WALL PACK, WHITE FINISH	LED	-	-	-	WALL MOUNTED	LITHONIA	ELMML	-	-

EQUIPMENT CONNECTION SCHEDULE

GENERAL NOTES:
 A. ALL LOW VOLTAGE HVAC CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 B. ALL EXHAUST FANS ARE FURNISHED WITH AN INTEGRAL DISCONNECTING MEANS, UNLESS NOTED OTHERWISE.

EQUIP	DESCRIPTION	ELECTRICAL				CONDUCTORS		GND		CONDUIT		SAFETY SWITCH	CONTROLLER	CONNECTION	REMARKS
		KW	HP	VOLTS	PHASE	NO.	SIZE	NO.	SIZE	NO.	SIZE				
CV-1	EXHAUST FAN	-	1/3	120	1	2	#12	#12	1	0.75"	INTEGRAL	-	DIRECT	-	
DOAS-1	DEDICATED OUTDOOR AIR SYSTEM	-	-	208	3	6	#3/0	(2) #3	2	2"	400-AMP FUSIBLE NEMA 3R	-	DIRECT	-	
DWH-1	DOMESTIC WATER HEATER	-	-	120	1	1	#12	#12	1	0.75"	-	-	CORD & PLUG	PROVIDE NEMA 5-20R SIMPLEX RECEPTACLE.	
DWH-2	DOMESTIC WATER HEATER	-	-	120	1	1	#12	#12	1	0.75"	-	-	CORD & PLUG	PROVIDE NEMA 5-20R SIMPLEX RECEPTACLE.	
EUH-1	ELECTRIC UNIT HEATER	2.0	-	208	1	2	#12	#12	1	0.75"	INTEGRAL	INTEGRAL THERMOSTAT	DIRECT	PROVIDE OMARK MWUH5004. PROVIDE MOUNTING BRACKETS AS REQUIRED.	
EW-H1	ELECTRIC WALL HEATER	3.0	-	208	1	2	#12	#12	1	0.75"	INTEGRAL	INTEGRAL THERMOSTAT	DIRECT	PROVIDE OMARK AWH4404F-AWHS2.	
FCU-103	FAN COIL UNIT	15.0	-	208	1	4	#8	(2) #10	2	0.75"	INTEGRAL	-	DIRECT	UNIT HAS TWO (2) ELECTRICAL CONNECTIONS.	
HP-5	HEAT PUMP	-	-	208	1	2	#4	#8	1	1"	100-AMP FUSIBLE NEMA 3R	-	DIRECT	-	
P-1	PUMP	-	F	120	1	2	#12	#12	1	0.75"	SHP	-	DIRECT	-	
SD	SMOKE DAMPER	-	F	120	1	2	12	12	1	0.75"	SHP	FIRE ALARM RELAY	DIRECT	PROVIDE DUCT OR ROOM MOUNTED SMOKE DETECTOR AS REQUIRED WITH FIRE ALARM RELAYS. CONNECT UP TO TEN (10) DAMPERS TO SPARE CIRCUIT BREAKER IN NEAREST 120V PANELBOARD.	
SP-1	SUMP PUMP	-	1/3	120	1	2	#12	#12	1	0.75"	-	-	CORD & PLUG	-	
WS-1	WATER SOFTENER	-	-	120	1	-	-	-	-	-	-	-	CORD & PLUG	EXISTING RECEPTACLE THAT FED PREVIOUS UNIT SHALL BE REUSED.	

FLOOR BOX SCHEDULE

TYPE	DESCRIPTION	GANGS				COVER	CONDUIT				MANUFACTURER	CATALOG NO.	ACCEPTABLE MANUFACTURER	REMARKS
		POWER	DATA	AV	SPARE		POWER	DATA	AV	SPARE				
FB1	POKE-THRU MULTI-GANG FLOORBOX	2-GANG 2-DUPLEX	1-GANG	-	1-GANG	BLANK COVER WITH FLANGE BLACK FINISH	1-0.75"	1-1"	-	1-1"	LEGRAND	6ATC2PBK3H	HUBBELL FSR	-

GENERAL NOTES:
 A. PROVIDE ACCESSORIES AS REQUIRED FOR INSTALLATION.
 B. PROVIDE MANUFACTURER'S STANDARD BLANK PLATES FOR UNUSED GANGS.
 C. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
 D. PROVIDE BARRIER KITS BETWEEN POWER AND LOW VOLTAGE COMPARTMENTS, WHERE PRESENT.
 E. PROVIDE BACK BOXES AND FACEPLATES AS REQUIRED FOR DEVICES INSTALLED WITHIN BOXES.

LIGHTING CONTROL SCHEDULE

GENERAL NOTES:
 A. WHERE A LOW VOLTAGE SWITCH IS INDICATED ON THE PLANS WITH NO SUBSCRIPT, PROVIDE A 2-BUTTON ON/OFF SWITCH TO CONTROL ALL LIGHTING IN A SPACE. WHERE SUBSCRIPTS ARE INDICATED ON A LOW VOLTAGE SWITCH, PROVIDE SEPARATE ON/OFF BUTTONS FOR EACH SUBSCRIPT (LIGHTING ZONE).
 B. WHERE DIMMING AND LOCAL ON/OFF IS INDICATED FOR A SPACE, PROVIDE LOW VOLTAGE SWITCH WITH SEPARATE RAISE AND LOWER BUTTONS FOR EACH ZONE INDICATED ON THE LOW VOLTAGE SWITCH.
 C. WHERE DIMMING IS INDICATED, PROVIDE DIMMING LOAD CONTROLLERS COMPATIBLE WITH LIGHT FIXTURES BEING PROVIDED. PROVIDE A DIMMING LOAD CONTROLLER FOR EACH LIGHT FIXTURE TYPE WITHIN A COMMON DIMMING ZONE.
 D. REFER TO THE LIGHTING CONTROLS SPECIFICATION FOR ADDITIONAL REQUIREMENTS.

NOTES:
 1. UPON TIME TO OFF, FIXTURES SHALL DIM TO 10%. UPON MOTION DETECTED, FIXTURES SHALL RAISE TO 100%.

TAG	MOTION SENSOR SETTINGS			LOCAL ON/OFF	DIMMING	TIME CLOCK	PHOTO-CELL	DAYLIGHT HARVESTING (FOOTCANDLES)	BUILDING NETWORKED LIGHTING CONTROL SYSTEM	EXAMPLE SPACE TYPE	NOTES
	MANUAL ON	AUTO ON (%)	TIME TO OFF (MIN)								
A	-	100	20	X	X	-	-	-	-	LOCKER ROOM	-
B	-	100	20	X	X	-	-	-	-	HALL / CORRIDOR	1
C	-	100	20	X	-	-	-	-	-	STORAGE	-
D	-	100	20	X	X	-	-	-	-	CLASSROOM	-

EMERGENCY LIGHTING INVERTER SCHEDULE

GENERAL NOTES:
 A. INVERTERS SHALL BE UL 924 LISTED.
 B. INVERTERS SHALL BE 120V INPUT AND 120V OUTPUT. OUTPUT BREAKER QUANTITY AND SIZE AS NOTED.
 C. INVERTERS SHALL BE BAA COMPLIANT.

NOTES:
 1. SET OUTPUTS TO 60% DIMMING LEVEL.

MARK	SIZE	RUNTIME	MANUFACTURER	CATALOG NUMBER	NOTES
INV	350W	90MIN	EVENLITE	PWII-551C-FD-15-23-BAA	1

DISTRIBUTION PANEL SCHEDULE

PANEL	MDP	EST. MAX DEMAND	209 KVA	VOLTAGE	120 / 208V	PHASE	3Ø	4 WIRE, SOLID NEUTRAL				80A MAIN BREAKER (NOTE 1)
								LOAD (KVA)	SIZE	POLE	TYPE	
1	SPD	-	20	1	LN	-	-	-	-	-	1"	NOTE 2
2	EXIT LIGHTS	-	20	1	LN	-	-	-	-	-	1"	NOTE 2
3	PANEL A	19	60	2	-	-	-	-	-	-	2"	NOTE 2
4	PANEL B	19	100	2	-	-	-	-	-	-	2"	NOTE 2
5	PANEL C	19	100	2	-	-	-	-	-	-	2"	NOTE 2
6	PANEL D	19	200	2	-	3	#3/0	#6	1	2"	-	-
7	PANEL E	48	200	3	-	4	#3/0	#6	1	2"	-	-
8	DOAS-1	84	400	3	LSI	-	-	-	-	-	2"	NOTE 3
9	SPACE PROVISION	-	200	3	-	-	-	-	-	-	-	-
10	SPACE PROVISION	-	200	3	-	-	-	-	-	-	-	-
11	SPACE PROVISION	-	100	3	-	-	-	-	-	-	-	-
12	SPACE PROVISION	-	100	3	-	-	-	-	-	-	-	-
13	SPACE PROVISION	-	100	3	-	-	-	-	-	-	-	-

NOTES:
 1. PROVIDE PANEL WITH LOCKABLE FRONT COVER.
 2. EXTEND EXISTING FEEDER TO THIS PANEL. FIELD VERIFY SIZE AND MATCH.
 3. REFERENCE THE EQUIPMENT CONNECTION SCHEDULE FOR WIRING REQUIREMENTS.

PANEL SCHEDULE

PANEL	E	LOAD DESCRIPTION	LOAD VA	TYPE	POLES	BREAKER	AMPS	TYPE	NO.	PHASE	NO.	BREAKER	AMPS	POLES	TYPE	VA	LOAD DESCRIPTION
LIGHTING	1,200	L	1	20	-	1	A	2	-	20	1	R	720	CLASS 103 S. RECEPITS			
EM INV.	550	L	1	20	-	3	B	4	-	20	1	R	540	CLASS 103 W. RECEPITS			
EXT. LIGHTING	125	L	1	20	-	5	C	6	-	20	1	R	500	CLASS 103 FRONT TVS			
CORR. RECEPITS	800	R	1	20	-	7	A	8	-	20	1	R	720	CLASS 103 N. RECEPITS			
EWIC	600	X	1	20	G	9	B	10	-	20	1	R	720	CLASS 103 S. RECEPITS			
STORJIAN RECEPITS	720	R	1	20	-	11	C	12	-	20	1	R	720	CLASS 103 E. RECEPITS			
EW-H1	1,500	X	2	20	-	13	A	14	-	20	1	R	720	CLASS 103 N. FLR BOXES			
	1,500	X	-	-	-	15	B	16	-	20	1	R	720	103 N MID FLR BOXES			
BASEMENT LIGHTING	1,000	L	1	20	-	17	C	18	-	20	1	R	720	103 S MID FLR BOXES			
BASEMENT RECEPITS	720	R	1	20	-	19	A	20	-	20	1	R	720	CLASS 103 S. FLR BOXES			
BASEMENT RECEPITS	540	R	1	20	-	21	C	22	-	80	2	M	3,750	HP-5			
WIMNS LATRINE RECEPITS	360	R	1	20	-	23	C	24	-	-	M	3,750	-				
MENS LATRINE RECEPITS	540	R	1	20	-	25	A	26	-	35	2	M	3,286	FCU-103 #1			
LATRINE / HALL RECEPITS	1,080	R	1	20	-	27	B	28	-	-	M	3,286	-				
HALL 108 EWIC	500	X	1	20	G	29	C	30	-	35	2	M	5,637	FCU-103 #2			
FACP	500	X	1	20	LN	31	A	32	-	-	M	5,637	-				
MNS	500	X	1	20	LN	33	B	34	-	20	2	X	936	EHF-1			
TELECOM RECEPIT	800	X	1	20	-	35	C	36	-	-	X	936	-				
TELECOM RECEPIT	800	X	1	20	-	37	A	38	LN	20	1	X	100	SMOKE DAMPERS			
SUMP PUMP	1,200	M	1	20	G	39	B	40	-	20	1	S	1,000	SPARE			
AV SYSTEM	500	X	1	20	-	41	C	42	-	20	1	S	1,000	SPARE			
SPARE	1,000	S	1	20	-	43	A	44	-	20	1	S	1,000	SPARE			
SPARE	1,000	S	1	20	-	45	B	46</									