



COMMUNITY DEVELOPMENT DEPARTMENT

45175 Ten Mile Road
Novi, MI 48375
(248) 347-0415 Phone
(248) 735-5600 Facsimile
www.cityofnovi.org

ZONING BOARD OF APPEALS STAFF REPORT

FOR: City of Novi Zoning Board of Appeals **ZONING BOARD APPEALS DATE:** January 9, 2023

REGARDING: 43455 Ten Mile Road, Parcel # 50-22-27-200-003 (PZ23-0066)

BY: Alan Hall, Deputy Director Community Development

I. GENERAL INFORMATION:

Applicant

Primrose & Swim School

Variance Type

Dimensional Variance

Property Characteristics

Zoning District: This property is zoned Office Service (OS-1)

Location: south of Ten Mile Road, west of Novi Road

Parcel #: 50-22-27-200-003

Request

The applicant is requesting variances from the City of Novi Zoning Ordinance Section 3.1.12.D for a reduction in required side yard parking setbacks to 0 ft. (10 ft. minimum, a variance of 10 ft.). This variance will enable a proposed lot-split in which the proposed parking lot will be divided between the new parcels.

II. STAFF COMMENTS:

***Background:** This property is where "Whitehall Healthcare Center of Novi" was previously located. The existing building is scheduled to be demolished and two new buildings are proposed to be constructed. The new site plan proposes that the existing parcel (50-22-27-200-003) is to be split into two separate lots so each new building will be positioned in its own lot while sharing parking and road access with each other.*

The applicant is seeking a zero-lot line side yard setback variance for both newly created parcels located along the new lot-split property line. Both newly created parcels would require this variance so the lot-split could be recorded as designed.

III. RECOMMENDATION:

The Zoning Board of Appeals may take one of the following actions:

1. I move that we ***grant*** the variance in Case No. **PZ23-0066**, sought by _____, for _____ because Petitioner has shown practical difficulty requiring _____.

(a) Without the variance Petitioner will be unreasonably prevented or limited with respect to use of the property because _____.

(b) The property is unique because _____.

(c) Petitioner did not create the condition because _____.

(d) The relief granted will not unreasonably interfere with adjacent or surrounding properties because _____.

(e) The relief if consistent with the spirit and intent of the ordinance because _____.

(f) The variance granted is subject to:

1. _____.
2. _____.
3. _____.
4. _____.

2. I move that we deny the variance in Case No. **PZ23-0066**, sought by _____, for _____ because Petitioner has not shown practical difficulty requiring _____.

(a) The circumstances and features of the property including _____ are not unique because they exist generally throughout the City.

(b) The circumstances and features of the property relating to the variance request are self-created because _____.

(c) The failure to grant relief will result in mere inconvenience or inability to attain higher economic or financial return based on Petitioners statements that _____.

(d) The variance would result in interference with the adjacent and surrounding properties by _____.

(e) Granting the variance would be inconsistent with the spirit and intent of the ordinance to _____.

Should you have any further questions with regards to the matter please feel free to contact me at (248) 347-0423.

Alan Hall – Deputy Director Community Development - City of Novi



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ZONING BOARD OF APPEALS APPLICATION

RECEIVED

NOV 22 2023

CITY OF NOVI
COMMUNITY DEVELOPMENT

APPLICATION MUST BE FILLED OUT COMPLETELY

I. PROPERTY INFORMATION (Address of subject ZBA Case)				Application Fee: \$330.00	
PROJECT NAME / SUBDIVISION Primrose & Swim School - 10 Mile Road				Meeting Date: 1-9-24	
ADDRESS 43455 W. 10 Mile Road, Novi, MI 48375		LOT/SIUTE/SPACE #			
SIDWELL # 50-22-27 - 2U0 - UU3		May be obtain from Assessing Department (248) 347-0485		ZBA Case #: PZ 23-0066	
CROSS ROADS OF PROPERTY 10 Mile Road & Novi Road					
IS THE PROPERTY WITHIN A HOMEOWNER'S ASSOCIATION JURISDICTION? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		REQUEST IS FOR: <input type="checkbox"/> RESIDENTIAL <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> VACANT PROPERTY <input type="checkbox"/> SIGNAGE			
DOES YOUR APPEAL RESULT FROM A NOTICE OF VIOLATION OR CITATION ISSUED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
II. APPLICANT INFORMATION					
A. APPLICANT		EMAIL ADDRESS samantha@814cre.com		CELL PHONE NO. (734) 260-6820	
NAME Samantha Kozlowski, Development Manager		TELEPHONE NO. (248) 817-1691			
ORGANIZATION/COMPANY 814 SERVICES, LLC		FAX NO. N/A			
ADDRESS 1695 Twelve Mile Road, Suite 100		CITY Berkley		STATE MI	ZIP CODE 48072
B. PROPERTY OWNER <input type="checkbox"/> CHECK HERE IF APPLICANT IS ALSO THE PROPERTY OWNER					
Identify the person or organization that owns the subject property:		EMAIL ADDRESS reed@814cre.com		CELL PHONE NO. (734) 260-6820	
NAME Reed Fenton, Manager		TELEPHONE NO. (248) 817-1691			
ORGANIZATION/COMPANY EIG14T MI PARTNERSHIP, LLC		FAX NO. N/A			
ADDRESS 1695 Twelve Mile Road, Suite 100		CITY Berkley		STATE MI	ZIP CODE 48072
III. ZONING INFORMATION					
A. ZONING DISTRICT					
<input type="checkbox"/> R-A <input type="checkbox"/> R-1 <input type="checkbox"/> R-2 <input type="checkbox"/> R-3 <input type="checkbox"/> R-4 <input type="checkbox"/> RM-1 <input type="checkbox"/> RM-2 <input type="checkbox"/> MH <input type="checkbox"/> I-1 <input type="checkbox"/> I-2 <input type="checkbox"/> RC <input type="checkbox"/> TC <input type="checkbox"/> TC-1 <input checked="" type="checkbox"/> OTHER <u>OSC-1</u>					
B. VARIANCE REQUESTED					
INDICATE ORDINANCE SECTION (S) AND VARIANCE REQUESTED:					
1. Section <u>3.1.21</u> Variance requested <u>Parking Setbacks (Interior Sides East and West)</u>					
2. Section _____ Variance requested _____					
3. Section _____ Variance requested _____					
4. Section _____ Variance requested _____					
IV. FEES AND DRAWINGS					
A. FEES					
<input type="checkbox"/> Single Family Residential (Existing) \$220 <input type="checkbox"/> (With Violation) \$275 <input type="checkbox"/> Single Family Residential (New) \$275 <input checked="" type="checkbox"/> Multiple/Commercial/Industrial \$330 <input type="checkbox"/> (With Violation) \$440 <input type="checkbox"/> Signs \$330 <input type="checkbox"/> (With Violation) \$440 <input type="checkbox"/> House Moves \$330 <input type="checkbox"/> Special Meetings (At discretion of Board) \$660					
B. DRAWINGS 1-COPY & 1 DIGITAL COPY SUBMITTED AS A PDF					
<ul style="list-style-type: none"> • Dimensioned Drawings and Plans • Site/Plot Plan • Existing or proposed buildings or addition on the property • Number & location of all on-site parking, if applicable • Existing & proposed distance to adjacent property lines • Location of existing & proposed signs, if applicable • Floor plans & elevations • Any other information relevant to the Variance application 					



ZONING BOARD OF APPEALS APPLICATION

V. VARIANCE

A. VARIANCE (S) REQUESTED

DIMENSIONAL USE SIGN

There is a five-(5) hold period before work/action can be taken on variance approvals.

B. SIGN CASES (ONLY)

Your signature on this application indicates that you agree to install a **Mock-Up Sign** ten-(10) days before the schedule ZBA meeting. Failure to install a mock-up sign may result in your case not being heard by the Board, postponed to the next schedule ZBA meeting, or cancelled. A mock-up sign is **NOT** to be actual sign. Upon approval, the mock-up sign must be removed within five-(5) days of the meeting. If the case is denied, the applicant is responsible for all costs involved in the removal of the mock-up or actual sign (if erected under violation) within five-(5) days of the meeting.

C. ORDINANCE

City of Novi Ordinance, Section 3107 – Miscellaneous

No order of the Board permitting the erection of a building shall be valid for a period longer than one-(1) year, unless a building permit for such erection or alteration is obtained within such period and such erection or alteration is started and proceeds to completion in accordance with the terms of such permit.

No order of the Board permitting a use of a building or premises shall be valid for a period longer than one-hundred and eighty-(180) days unless such use is establish within such a period; provided, however, where such use permitted is dependent upon the erection or alteration or a building such order shall continue in force and effect if a building permit for such erection or alteration is obtained within one-(1) year and such erection or alteration is started and proceeds to completion in accordance with the terms of such permit.

D. APPEAL THE DETERMINATION OF THE BUILDING OFFICIAL

PLEASE TAKE NOTICE:

The undersigned hereby appeals the determination of the Building Official / Inspector or Ordinance made

CONSTRUCT NEW HOME/BUILDING ADDITION TO EXISTING HOME/BUILDING SIGNAGE
 ACCESSORY BUILDING USE OTHER _____

VI. APPLICANT & PROPERTY SIGNATURES

A. APPLICANT

Samantha R. Koglanwski
Applicant Signature

11/20/2023

Date

B. PROPERTY OWNER

If the applicant is not the owner, the property owner must read and sign below:

The undersigned affirms and acknowledges that he, she or they are the owner(s) of the property described in this application, and is/are aware of the contents of this application and related enclosures.

Rak Fester
Property Owner Signature

11/20/2023

Date

VII. FOR OFFICIAL USE ONLY

DECISION ON APPEAL:

GRANTED

DENIED

The Building Inspector is hereby directed to issue a permit to the Applicant upon the following and conditions:

Chairperson, Zoning Board of Appeals

Date



Community Development Department

45175 Ten Mile Road
Novi, MI 48375
(248) 347-0415 Phone
(248) 735-5600 Facsimile
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**REVIEW STANDARDS
DIMENSIONAL VARIANCE**

The Zoning Board of Appeals (ZBA) will review the application package and determine if the proposed Dimensional Variance meets the required standards for approval. In the space below, and on additional paper if necessary, explain how the proposed project meets each of the following standards. (Increased costs associated with complying with the Zoning Ordinance will not be considered a basis for granting a Dimensional Variance.)

Standard #1. Circumstances or Physical Conditions.

Explain the circumstances or physical conditions that apply to the property that do not apply generally to other properties in the same zoning district or in the general vicinity. Circumstances or physical conditions may include:

- a. Shape of Lot.** Exceptional narrowness, shallowness or shape of a specific property in existence on the effective date of the Zoning Ordinance or amendment.
 Not Applicable Applicable If applicable, describe below:

and/or

- b. Environmental Conditions.** Exceptional topographic or environmental conditions or other extraordinary situations on the land, building or structure.
 Not Applicable Applicable If applicable, describe below:

There are significant wetlands on this property which restricts the limit of development on the west side of the parcel.

and/or

- c. Abutting Property.** The use or development of the property immediately adjacent to the subject property would prohibit the literal enforcement of the requirements of the Zoning Ordinance or would involve significant practical difficulties.
 Not Applicable ~~Applicable~~ If applicable, describe below:

SM

Standard #2. Not Self-Created.

Describe the immediate practical difficulty causing the need for the Dimensional Variance, that the need for the requested variance is not the result of actions of the property owner or previous property owners (i.e., is not self-created).

The existing parcel is being redeveloped into a cohesive, multi-tenant development with shared access and parking. Due to the shared parking required to achieve this development, we are not able to provide the required parking setback between the two uses. Also due to the shared parking arrangement, it is not appropriate to cut off lighting between the two uses as this would not provide acceptable lighting levels in the majority of the parking area.

Standard #3. Strict Compliance.

Explain how the Dimensional Variance in strict compliance with regulations governing area, setback, frontage, height, bulk, density or other dimensional requirements will unreasonably prevent the property owner from using the property for a permitted purpose, or will render conformity with those regulations unnecessarily burdensome.

We would not be able to provide the required amount of parking for the two users if we were to provide the required setback between the childcare and swim school uses. The most efficient way to provide lighting for the shared parking area is to establish lighting, as proposed, in the two landscape islands on the north and south sides of the parking area.

Standard #4. Minimum Variance Necessary.

Explain how the Dimensional Variance requested is the minimum variance necessary to do substantial justice to the applicant as well as to other property owners in the district.

The requested variances are the minimum necessary to complete the development as proposed and were previously presented to the Planning Commission. We are committed to developing this project and will provide for shared access, parking, and maintenance between the two parcels. The requested variances will result in a development that is similar to many other commercial developments within the City.

Standard #5. Adverse Impact on Surrounding Area.

Explain how the Dimensional Variance will not cause an adverse impact on surrounding property, property values, or the use and enjoyment of property in the neighborhood or zoning district.

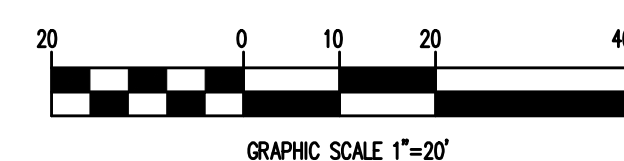
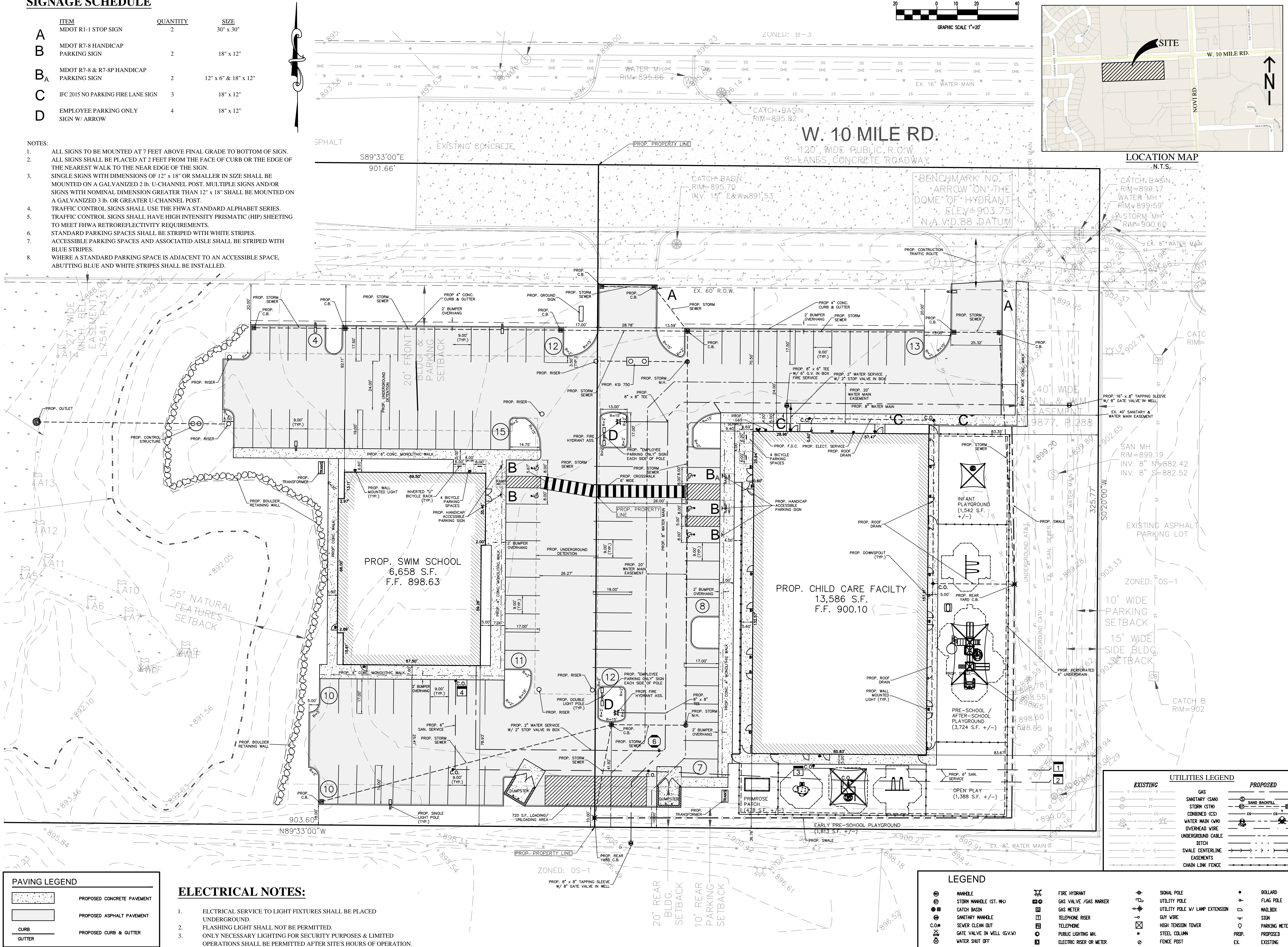
Our redevelopment will not cause any adverse impact on surrounding property or property values. The redevelopment of this property will rid the City of Novi of the existing, vacant, retirement home that has been an eyesore for way too long and attracts vandalism. There will be no significant change to how this development will appear or function with the granting of the variances. The redevelopment will enhance the community and surrounding properties, while providing much needed services to the residents of the City of Novi.

SIGNAGE SCHEDULE

ITEM	QUANTITY	SIZE
A MDTOT R1-1 STOP SIGN	2	30" x 30"
B MDTOT R7-8 HANDICAP PARKING SIGN	2	18" x 12"
B _A MDTOT R7-8 & R7-8P HANDICAP PARKING SIGN	2	12" x 6" & 18" x 12"
C IFC 2015 NO PARKING FIRE LANE SIGN	3	18" x 12"
D EMPLOYEE PARKING ONLY SIGN W/ ARROW	4	18" x 12"

NOTES:

- ALL SIGNS TO BE MOUNTED AT 7 FEET ABOVE FINAL GRADE TO BOTTOM OF SIGN.
- ALL SIGNS SHALL BE PLACED AT 2 FEET FROM THE FACE OF CURB OR THE EDGE OF THE NEAREST WALK TO THE NEAR EDGE OF THE SIGN.
- SINGLE SIGNS WITH DIMENSIONS OF 12" x 18" OR SMALLER IN SIZE SHALL BE MOUNTED ON A GALVANIZED 2 LB. U-CHANNEL POST. MULTIPLE SIGNS AND/OR SIGNS WITH NOMINAL DIMENSION GREATER THAN 12" x 18" SHALL BE MOUNTED ON A GALVANIZED 3 LB. OR GREATER U-CHANNEL POST.
- TRAFFIC CONTROL SIGNS SHALL USE THE FHWA STANDARD ALPHABET SERIES.
- TRAFFIC CONTROL SIGNS SHALL HAVE HIGH INTENSITY PRISMATIC (HIP) SHEETING TO MEET FHWA RETROREFLECTIVITY REQUIREMENTS.
- STANDARD PARKING SPACES SHALL BE STRIPED WITH WHITE STRIPES.
- ACCESSIBLE PARKING SPACES AND ASSOCIATED AISLE SHALL BE STRIPED WITH BLUE STRIPES.
- WHERE A STANDARD PARKING SPACE IS ADJACENT TO AN ACCESSIBLE SPACE, ABUTTING BLUE AND WHITE STRIPES SHALL BE INSTALLED.



Orman Engineering, LLC
 5476 Vivian Lane
 Waterford, MI 48327
 phone: 248.682.6001
 email: alex@ormanengineering.com

PROJECT
 PRIMROSE & SWIM SCHOOL
 10 MILE ROAD

CLIENT
 EIG14T MI - Novi LLC
 1695 Twelve Mile Road
 Berkley, Michigan 48072

Contact: Mark Kellenberger
 Phone: (248) 921-3733

SEAL

SHEET
 SITE PLAN

PROJECT LOCATION
 43455 W. 10 Mile Rd.
 City of Novi,
 Oakland County, MI 48375

miss dig
811
 Know what's below
 Call before you dig.

REVISIONS

Date	Description
10-30-2023	FSP SUBMISSION
05-19-2023	REVISED FOR SPA
03-08-2023	SPA

Designed by: A.O. **Drawn by:** S.D.M.
Approved by: A.O. **Date:** 02/28/2023

Scale: 1" = 20'
Job No.: 1393 **Sheet:** FSP-4

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED ASPHALT PAVEMENT
	PROPOSED CURB & GUTTER

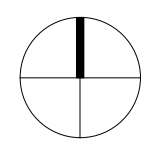
ELECTRICAL NOTES:

- ELECTRICAL SERVICE TO LIGHT FIXTURES SHALL BE PLACED UNDERGROUND.
- FLASHING LIGHT SHALL NOT BE PERMITTED.
- ONLY NECESSARY LIGHTING FOR SECURITY PURPOSES & LIMITED OPERATIONS SHALL BE PERMITTED AFTER SITE'S HOURS OF OPERATION.

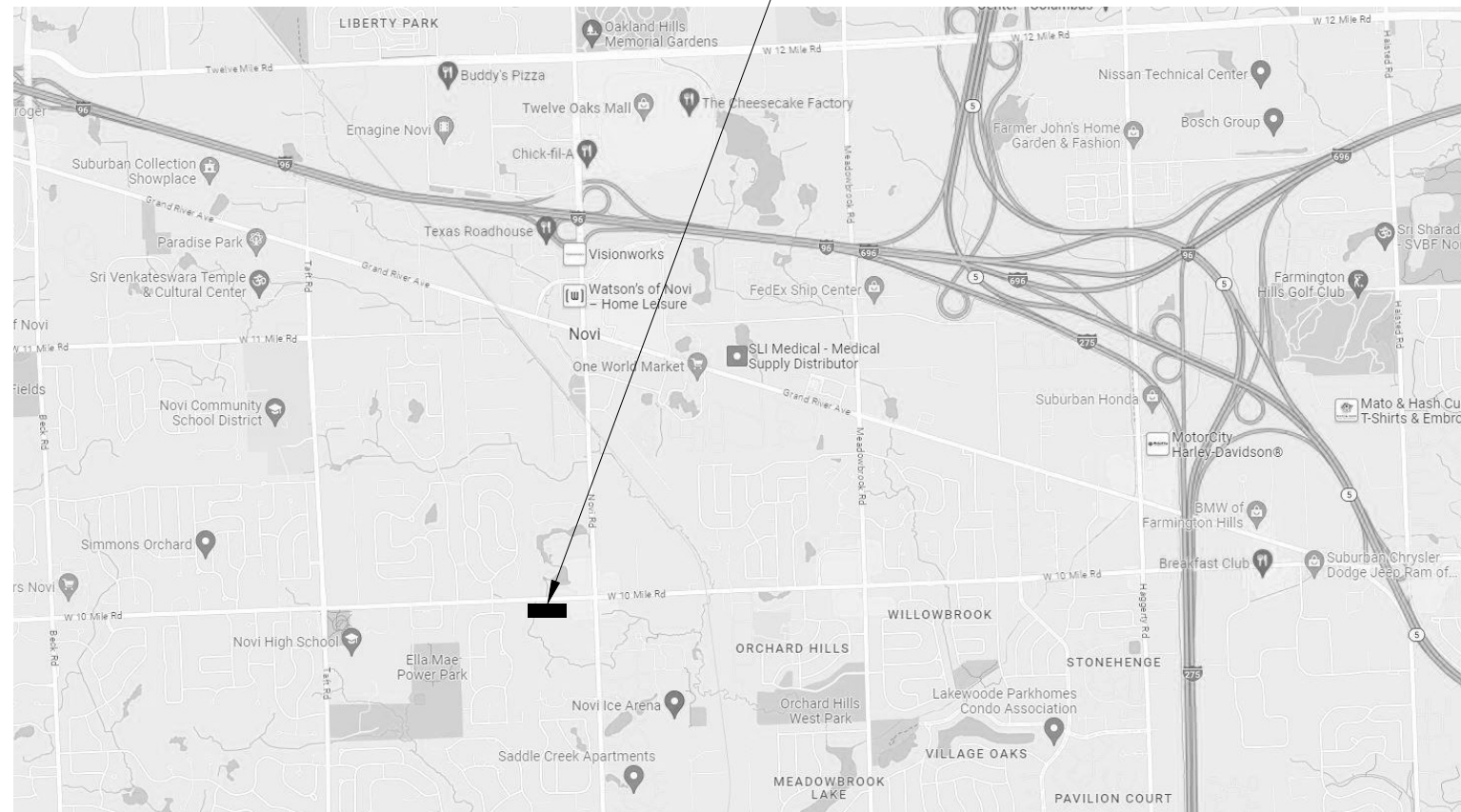
LEGEND

	MANHOLE		FIRE HYDRANT		SIGNAL POLE
	STORM BASIN (ST. M.)		GAS VALVE / GAS MARKER		UTILITY POLE W/ LAMP EXTENSION
	CATCH BASIN		TELEPHONE RISER		GUY WIRE
	SANITARY MANHOLE		TELEPHONE		HIGH TENSION TOWER
	WATER MAIN (W/ VALVE)		PUBLIC LIGHTING M.H.		STEEL COLUMN
	OVERHEAD WIRE		ELECTRIC RISER OR METER		FENCE POST
	UNDERGROUND CABLE				BOLLARD FLAG POLE
	DITCH				MAILBOX
	SWAILE CENTERLINE				SIGN
	EASEMENTS				PROPOSED PARKING METER
	CHAIN LINK FENCE				EXISTING PARKING METER

LOCATION MAP



SITE LOCATION



PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



Erwin

INDEX OF DRAWINGS

Table with columns for drawing number and name, listing architectural, structural, mechanical, and electrical drawings.

PROJECT CONTACTS

OWNER/DEVELOPER: EIG14T (814 CRE), 1695 TWELVE MILE RD, SUITE 100, BERKLEY, MI 48072...

FRANCHISOR: PRIMROSE SCHOOL FRANCHISING COMPANY, 3200 WINDY HILL ROAD, SUITE 1200E, ATLANTA, GA 30339...

GENERAL NOTES

THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, A.I.A. DOCUMENT A201, LATEST EDITION ARE HEREBY MADE A PART OF THESE CONSTRUCTION DOCUMENTS AS IF BOUND HEREIN...

DEFERRED SUBMITTALS:

- PROVIDE SHOP DRAWINGS TO THE ARCHITECT & APPROVING GOVERNMENTAL AUTHORITIES FOR THE FOLLOWING SYSTEMS: 1. PREFABRICATED WOOD TRUSSES...

SPECIAL INSPECTIONS:

- THE CONTRACTOR SHALL ARRANGE & COORDINATE REQUIRED SPECIAL INSPECTIONS TO BE PAID FOR BY THE CONTRACTOR. THE INSPECTOR(S) SHALL BE QUALIFIED TO PERFORM INSPECTIONS AS DETERMINED BY THE LOCAL BUILDING OFFICIAL...

NOTE TO CONTRACTOR:

- 1. FENCING MAY REQUIRE A SEPARATE PERMIT AND SUBMITTAL. IF REQUIRED, IT SHALL BE SUBMITTED BY THE CONTRACTOR.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN ELEVATIONS, DIMENSIONS, AND SITE CONDITIONS BEFORE PROCEEDING WITH ANY WORK...

ABBREVIATIONS

Table listing abbreviations for construction materials and systems, such as AC (AIR CONDITIONING), AFF (ABOVE FINISH FLOOR), and MFR (MANUFACTURER).

PROJECT DESCRIPTION

THIS FACILITY DESIGN IS BASED ON THE FOLLOWING DESIGN CRITERIA: BUILDING CLASSIFICATIONS AND DATA

BUILDING CODES LIST

- 2015 Michigan Building Code, 2015 International Fire Code, 2018 Michigan Plumbing Code, 2015 Michigan Mechanical Code, 2015 International Fuel Gas Code...

OCCUPANCY GROUP CLASSIFICATION:

NON-SEPARATED OCCUPANCIES PER SECTION 508.3 GROUP: E-DAYCARE FACILITIES (SECTION 305.2) PER SECTION 308.6.1: A CHILD DAY CARE FACILITY THAT PROVIDES CARE FOR MORE THAN 5 BUT NOT MORE THAN 100 CHILDREN...

TYPE OF CONSTRUCTION CLASSIFICATION:

TYPE V-B - UNPROTECTED - SPRINKLED

BUILDING AREA:

ALLOWABLE AREA: TABULAR AREA (TABLE 506.2): 38,000 SF

BUILDING HEIGHT:

MAXIMUM ALLOWABLE PER TABLE 504.3 = 60'-0" ACTUAL BUILDING HEIGHT: TOP OF HIGHEST RIDGE = 29'-0" +/- ALLOWABLE NUMBER OF STORIES PER TABLE 504.4 = 2 ACTUAL NUMBER OF STORIES = 1

DRAFTSTOPPING IN ATTICS: (SECTION 718.4)

EXCEPTION: DRAFTSTOPPING NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1, PROVIDED THAT AUTOMATIC SPRINKLERS ARE INSTALLED IN THE COMBUSTIBLE CONCEALED SPACE WHERE THE DRAFTSTOPPING IS BEING OMITTED.

CORRIDORS: (SECTION 1020)

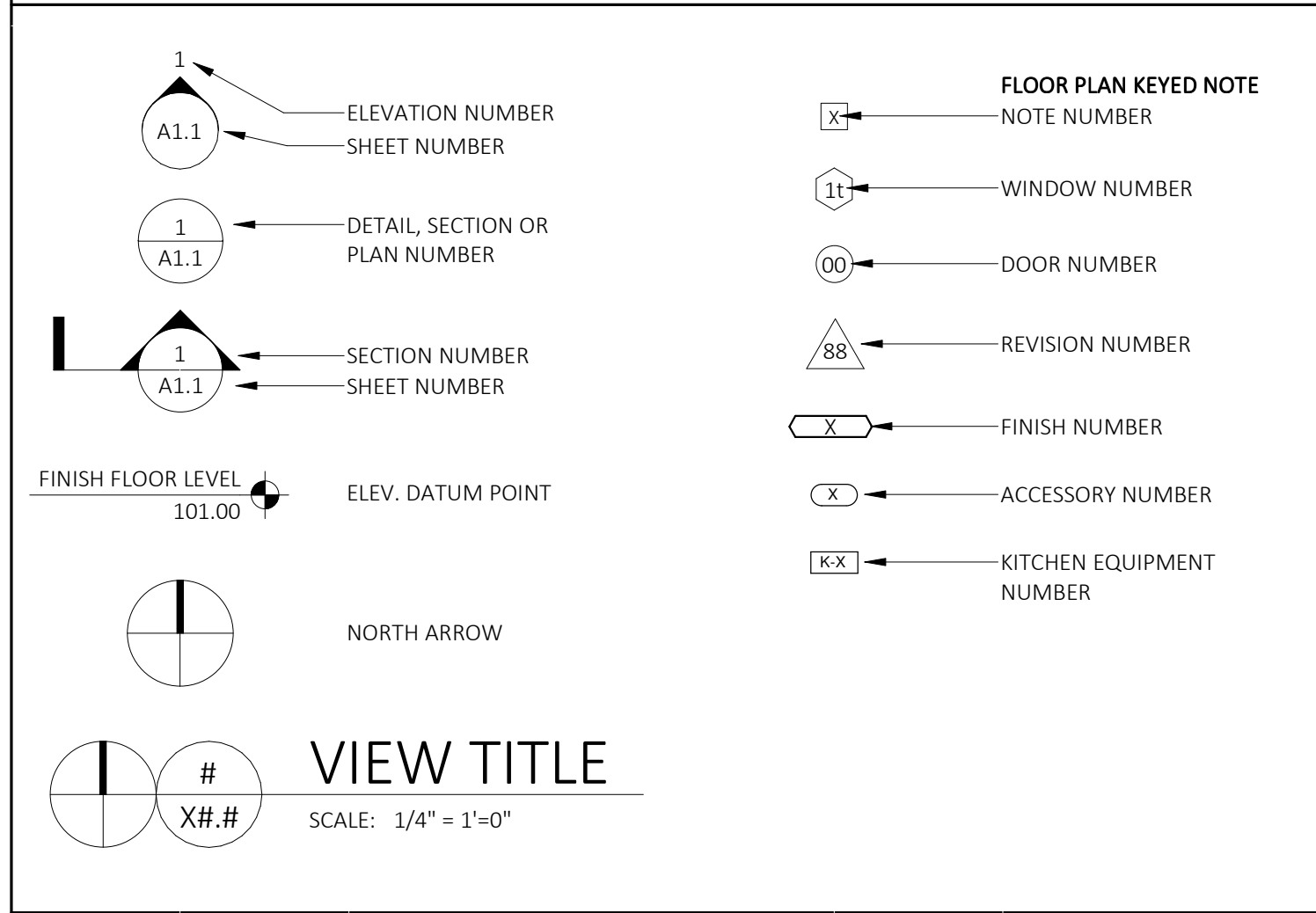
CORRIDORS SHALL BE FIRE RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1. A FIRE RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS IN AN OCCUPANCY GROUP E WHERE BUILDINGS ARE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 WHERE ALLOWED.

REFER TO LS1.0 'LIFE SAFETY PLAN' FOR EXITING INFORMATION

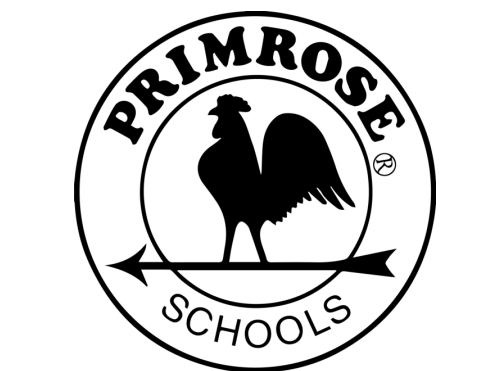
NOTE TO CONTRACTOR RE: MOLD/MILDEW

- 1. THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS. 2. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION, AND / OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT COULD INCLUDE THE PRESENCE OF MOLD AND / OR MILDEW...

SYMBOL LEGEND



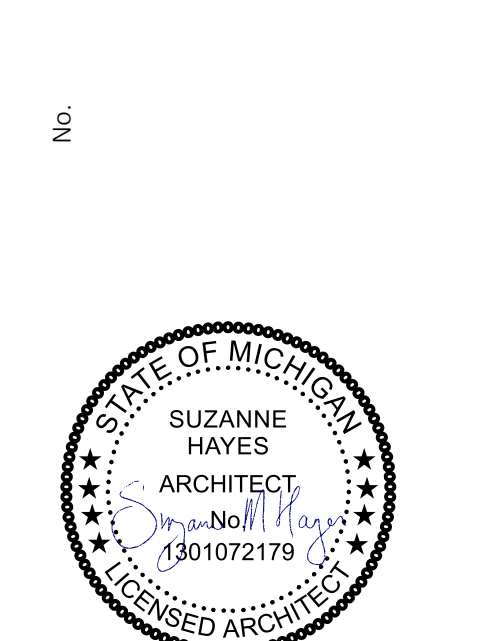
PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
3200 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640

THESE DRAWINGS AND THE DESIGN REPRESENTED HEREBY ARE THE EXCLUSIVE PROPERTY OF PRIMROSE SCHOOL FRANCHISING CO. REPRODUCTION OR ANY USE OF THESE DRAWINGS OTHER THAN FOR THE PROJECT INTENDED WITHOUT THE EXPRESS WRITTEN CONSENT OF PRIMROSE SCHOOL FRANCHISING CO. IS PROHIBITED. ANY UNAUTHORIZED USE WILL BE SUBJECT TO LEGAL ACTION.

Table for CONSTR. DOC. & REVISIONS with columns for Date, Description, and No.



Professional of Record: Suzanne M Hayes, LICENSE NO: 1301072179, EXP. DATE: 12/19/24

Table for Drawn/Checked, Project Number, Bid Date, Permit Date, For Construction.

TITLE SHEET

T1.0

SITE SUMMARY (NOVI, MI):

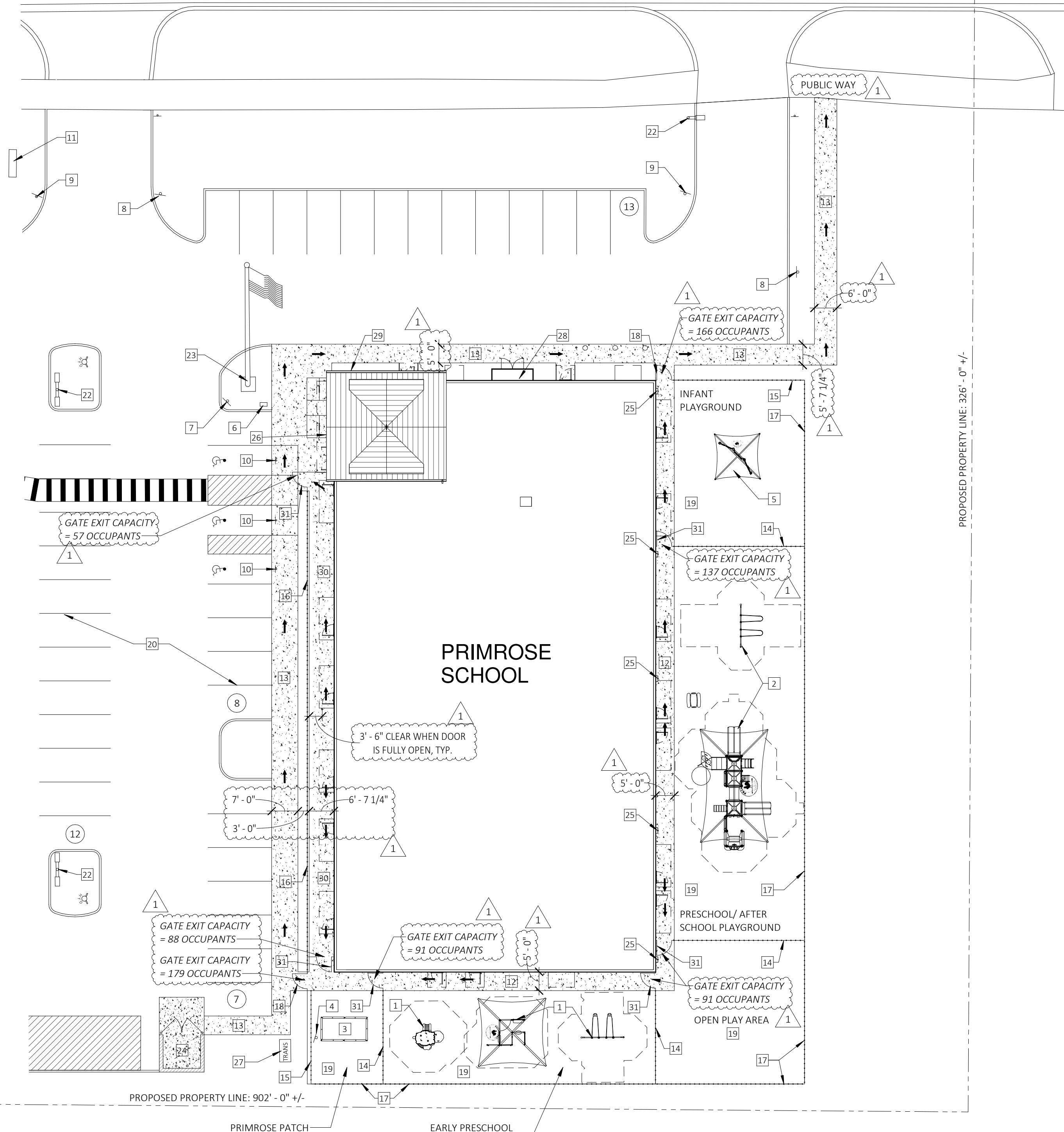
BUILDING AREA: 13,546 S.F.
 PLAYGROUND AREA: 10,244 S.F.
 PROPOSED PARKING SPACES: 38
 LOT AREA: 294,048 S.F. +/- (6.75 ACRES)

© 2023 CASCO DIVERSIFIED CORPORATION

PRIMROSE IS NOT THE ONLY TENANT ON THIS PROPERTY. REFER TO CIVIL FOR FULL EXTENT OF PROPERTY LINES AND ADDITIONAL TENANTS/ BUILDINGS ON THIS SITE. THE SITE PLAN ON THIS SHEET IS ONLY THE PORTION THAT PERTAINS TO THE SCOPE OF THIS PROJECT.

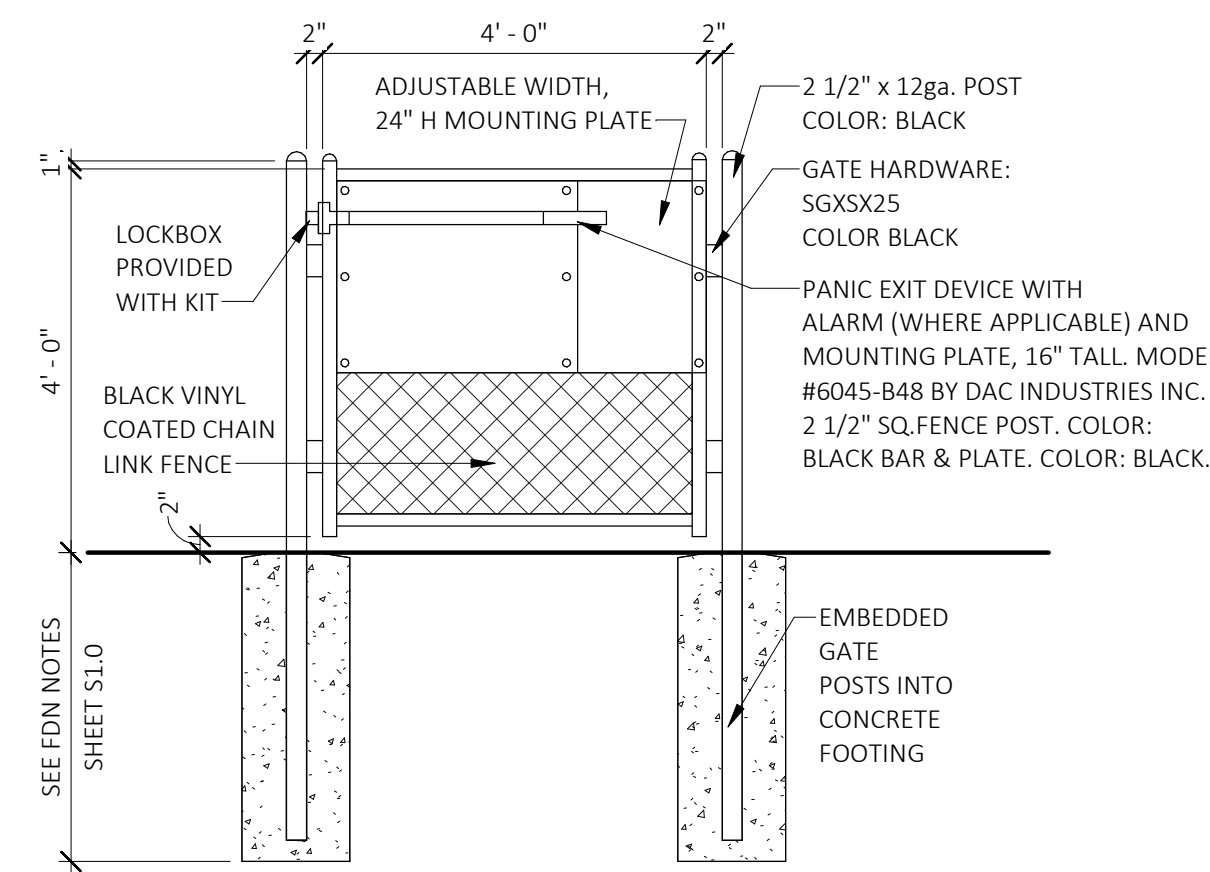
PROPOSED PROPERTY LINE: 902' - 0" +/-

10 MILE ROAD



6 SITE PLAN
 SCALE: 1" = 20'-0"

↑ INDICATES SHORTEST DIRECTION OF TRAVEL TO GET AWAY FROM BUILDING AND TO THE PUBLIC WAY



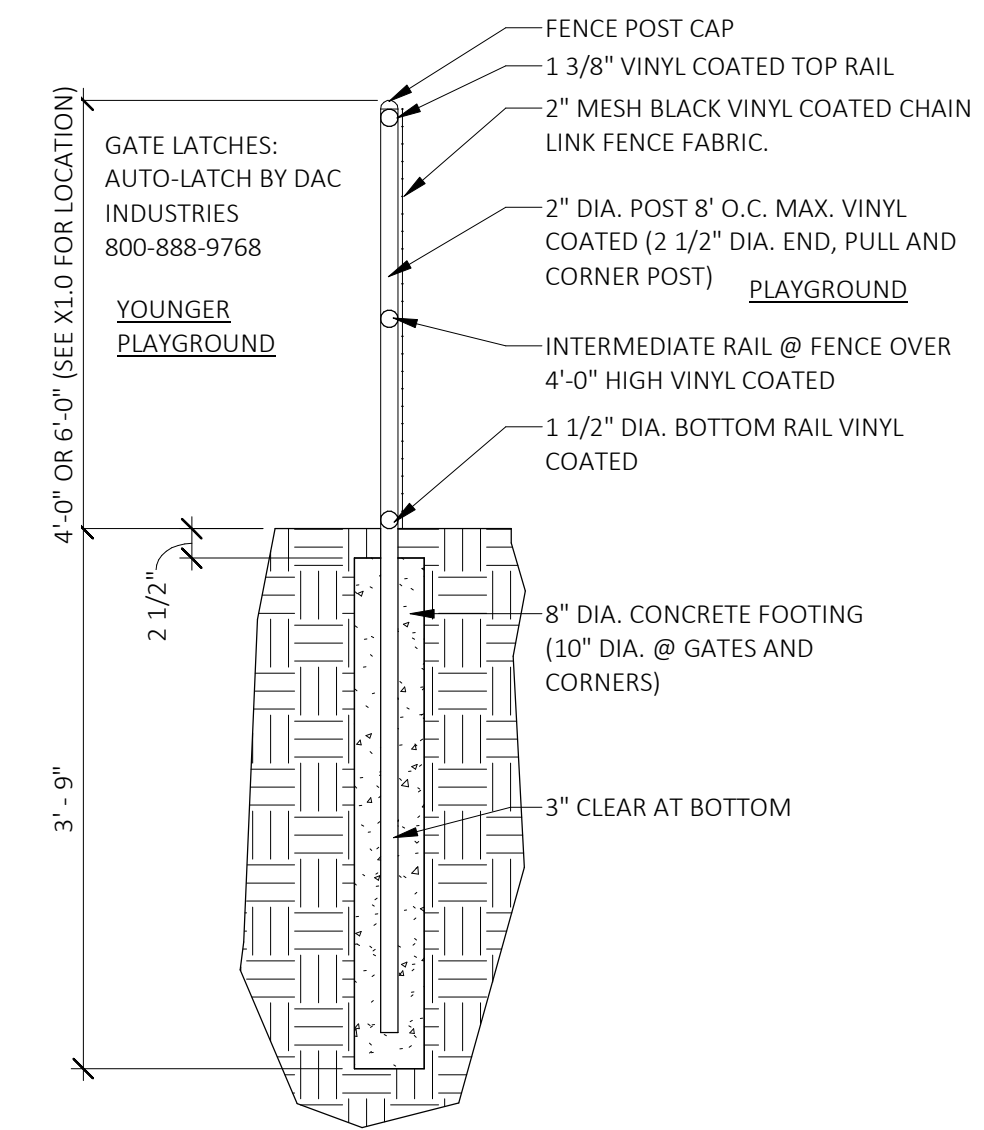
5 GATE ELEVATION
 SCALE: 1/2" = 1'-0"

SITE PLAN GENERAL NOTES

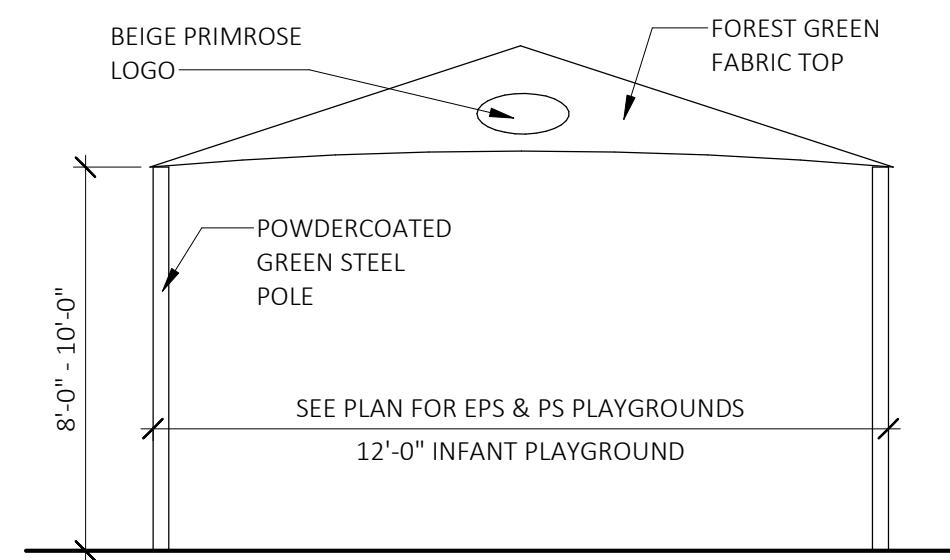
- ENTRAPMENT. THE DISTANCE BETWEEN ANY OPENING SURFACES SHALL NOT BE GREATER THAN 3.5 INCHES AND LESS THAN 9 INCHES.
- CONTRACTOR TO FURNISH, ASSEMBLE AND INSTALL PER MANUFACTURER'S INSTRUCTIONS ALL EQUIPMENT LISTED ON THIS PLAN UNLESS OTHERWISE NOTES.
- CONCRETE EXPANSION JOINTS ARE TO BE PLANNED AND SET WITH CONSIDERATION TO OVERALL SITE LAYOUT AND DESIGN. EXPANSION JOINTS SHALL OCCUR TO CREATE SQUARES NO GREATER THAN 20 FEET IN EACH DIRECTION. CONTROL JOINTS SHALL BE 1/2" INCH DEEP TOOLED JOINTS AND CREATE SQUARES NO GREATER THAN 10 FEET X 10 FEET IN EACH DIRECTION.
- CONCRETE WALKS SHALL BE FLUSH AT FF WITH A 2% MAX FALL. SIDEWALKS ELSEWHERE SHALL BE 2" MIN BELOW FF AND SLOPING AWAY FROM THE BUILDING AT 2%. MAX SLOPE ACROSS PLAY SURFACING SHALL BE 2% AT FALL SURFACES - SODDED AREAS 8% PATH OF TRAVEL FROM PUBLIC WALK TO FRONT DOOR SHALL BE 5% MAX, WITH A 1% MAX CROSS SLOPE.
- DO NOT USE TOXIC PLANTS. EXISTING PLANTS SHALL BE EVALUATED AND HAZARDOUS PLANTS REMOVED. CONTACT OWNER FOR LIST OF POISONOUS PLANTS. CONTRACTOR IS RESPONSIBLE FOR ENSURING NO POISONOUS PLANTS ARE USED. PLANTS WHICH HAVE FRUITS THAT POSE A CHOKING HAZARDS SHALL NOT BE USED. PLANTS WITH OTHER HAZARDS SUCH AS THORNS SHALL NOT BE USED. EXISTING VEGETATION SHALL BE PROTECTED WHENEVER POSSIBLE.
- NO TREE SHALL BE PLANTED WITHIN 10' OF A UTILITY LINE UNLESS APPROVED BY OWNER.
- TREES AND SHRUBS SHALL NOT INTERFERE WITH PHYSICAL OR SIGHT CLEARANCES REQUIRED FOR VEHICLE OR PEDESTRIAN TRAFFIC WITHIN AND ACCESSING THE SITE, BOTH INITIALLY AND THROUGH MATURITY.
- IF A METAL OR CONCRETE MOW STRIP IS USED, IT SHALL BE FLUSH WITH GRADE AND PREFERABLY OUTSIDE OF THE PLAYGROUND FENCE. THERE SHALL BE NO PROTRUDING OBJECTS ON THE PLAYGROUND.
- FILL GAP IN SOD WITH SANDY TOPSOIL AND LIGHTLY ROLL TO BRING THE ROOTS OF THE GRASS INTO FIRM CONTACT WITH THE SOIL SO THAT SOIL MOISTURE IS AVAILABLE TO THE ROOTS AND THE SOD CAN "KNIT" WITH THE SOIL SONNER. ROLLING ISN'T FOR SMOOTHING OUT THE BUMPS. THAT IS DONE BY PROPER SITE PREPARATION BEFORE LAYING THE SOD.
- ARCHITECTURAL SITE PLAN IS FOR LOCATION OF PLAY AND SITE FURNITURE. BUILDING SETBACKS, DRIVE AND BUILDING LOCATION SHOULD BE LOCATED PER CIVIL PLANS. UTILITIES AND SITE LIGHTING SHOULD BE LOCATED PER CIVIL AND ELECTRICAL DRAWINGS.
- FINAL SIGN PLACEMENT SHALL BE AGREED UPON BETWEEN CONTRACTOR AND FRANCHISE OWNER.
- PROVIDE PANIC DEVICES ON ALL PLAYGROUND GATES. ALARMS ARE ONLY REQUIRED AT GATES THAT EXIT TO THE PARKING LOT OR A PUBLIC SPACE.

SITE PLAN KEYED NOTES

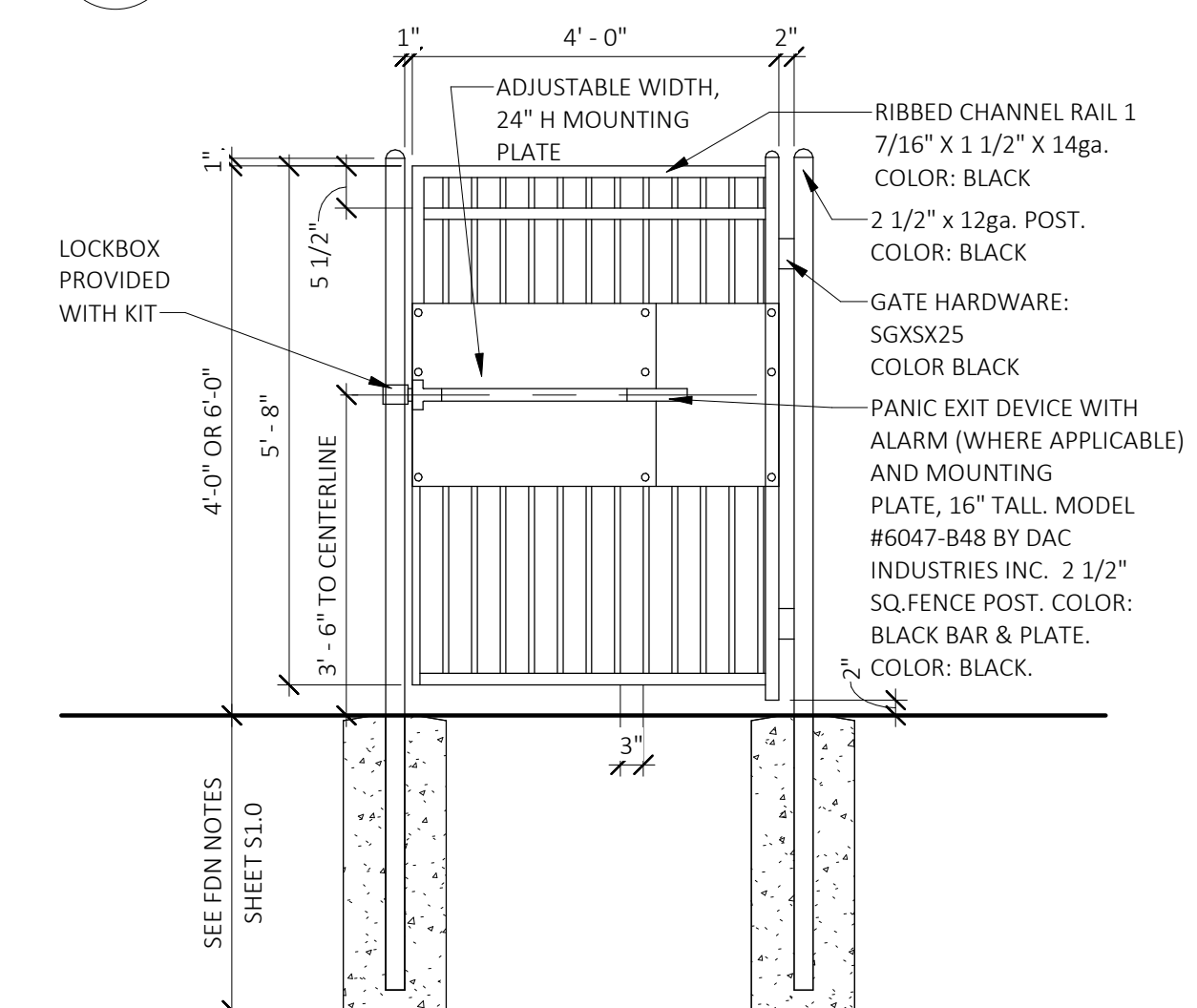
- EARLY PRE-SCHOOL PLAYGROUND EQUIPMENT - SEE 1/A7.2
- PRE-SCHOOL / AFTER SCHOOL PLAYGROUND EQUIPMENT - SEE 2/A7.2
- PRIMROSE PATCH - 6' x 12' - SEE 6/A7.2
- PRIMROSE PATCH SIGN - SEE 3/A7.2
- 12' x 12' SUNPORTS SUNSHADE. FORSET GREEN WITH BEIGE LOGO - SEE 3/X1.0
- MAILBOX, COORDINATE LOCATION WITH DEVELOPMENT MANAGER
- SMOKE FREE SIGN - SEE 3/A7.2
- BUCKLE UP SIGN - SEE 3/A7.2
- WATCH FOR CHILDREN SIGN - SEE 3/A7.2
- HC PARKING SIGNAGE - SEE CIVIL DRAWINGS
- MONUMENT SIGN - SEE CIVIL DRAWINGS
- 5'W SIDEWALK - SEE 7/A7.2
- SIDEWALK - SEE CIVIL DRAWINGS
- 4' BLACK VINYL CLAD CHAIN LINK FENCE, TYPICAL AT ALL INTERIOR FENCES - SEE 6/X1.0
- 6' BLACK AMERISTAR IMPACT FENCE, TYPICAL AT FRONT OF BUILDING - SEE DETAILS ON A7.3.
- 4' BLACK AMERISTAR IMPACT FENCE, TYPICAL AT FRONT OF BUILDING - SEE DETAILS ON A7.3.
- 6' BLACK AMERISTAR FENCE TYPICAL AT PERIMETER FENCES - SEE 1 & 2/X1.0
- 4'W x 6'H BLACK GATE W/PANIC HARDWARE TO MATCH FENCE MATERIAL, TYPICAL - SEE 2 & 5/X1.0
- PROVIDE ARTIFICIAL TURF THROUGHOUT PLAYGROUND - SEE 8/A7.2
- PARKING LOT WITH STRIPING - SEE CIVIL DRAWINGS FOR DIMENSIONS.
- NOT USED
- LOT LIGHT - SEE ELECTRICAL DRAWINGS
- FLAGPOLE - SEE 8/A7.1
- PROPOSED MASONRY TRASH ENCLOSURE, WITH CONCRETE APPROACH - SEE SHEET A7.1
- DOWNSPOUT - CONNECT W/4" PVC TO STORM - SEE ROOF PLAN
- PROVIDE A KNOX BOX NEAR THE FRONT ENTRANCE FOR THE FIRE DEPT. ACCESS COORDINATE WITH LOCAL FIRE OFFICE.
- PAD MOUNTED TRANSFORMER - SEE ELECTRICAL DRAWINGS
- METER AND C.T. CABINET INSTALL BY G.C.G.C. CSHALL VERIFY EXACT LOCATION (PRIOR TO ROUGH-IN) WITH ELECTRIC UTILITY REP.
- GAS METER LOCATION - SEE PLUMBING DRAWINGS
- 6'-7" +/- SIDEWALK, SEE 7/A7.2.
- 4'W x 4'H BLACK GATE W/ PANIC HARDWARE ARE TO MATCH FENCE MATERIAL, TYP. - SEE 2 & 5/X1.0



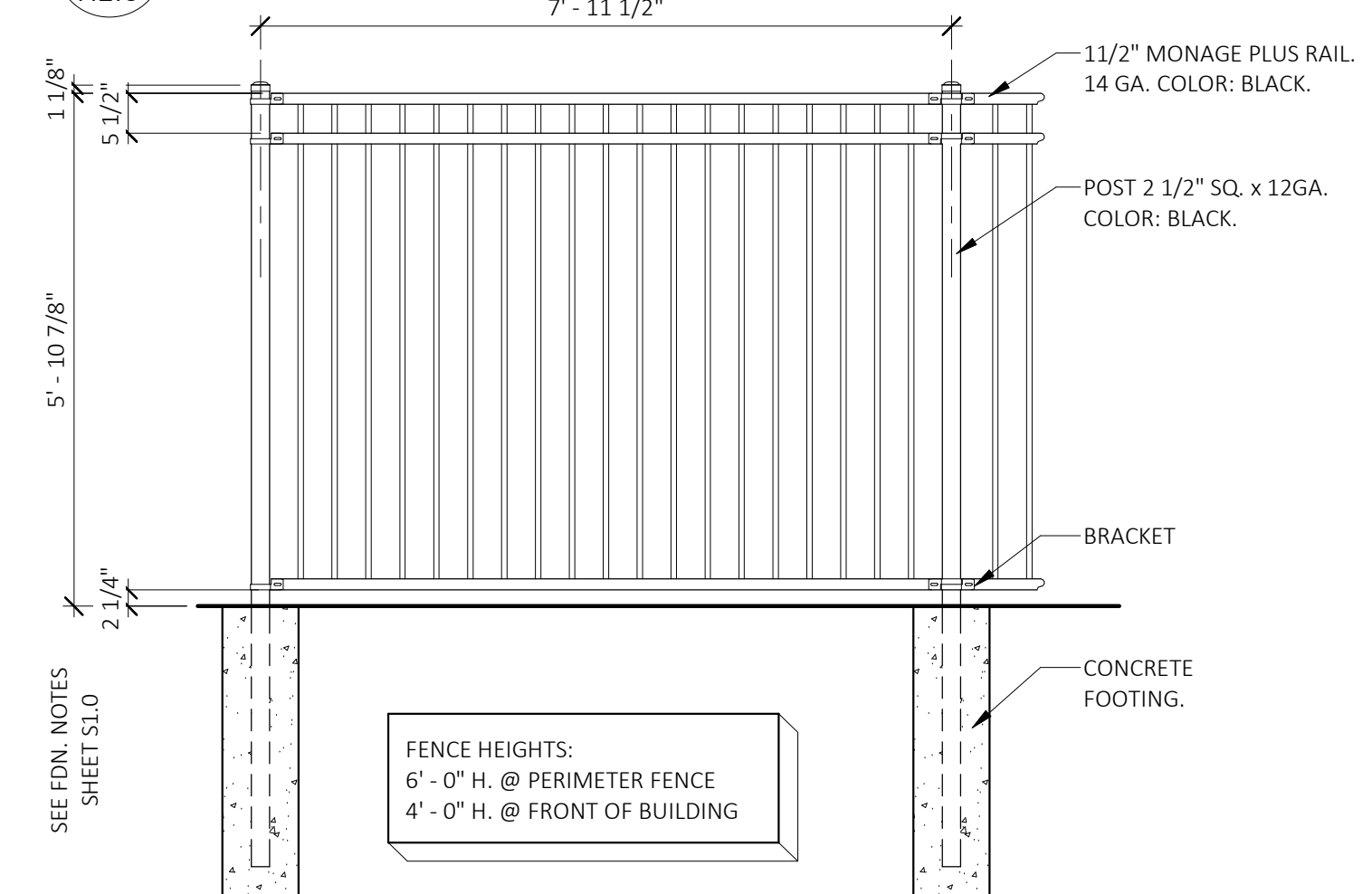
4 CHAIN LINK FENCE
 SCALE: 3/4" = 1'-0"



3 SHADE STRUCTURE
 SCALE: 1/4" = 1'-0"



2 GATE ELEVATION
 SCALE: 1/2" = 1'-0"



1 FENCE ELEVATION
 SCALE: 1/2" = 1'-0"

PRIMROSE SCHOOL

43455 W. 10 MILE ROAD
 NOVI, MI 48375



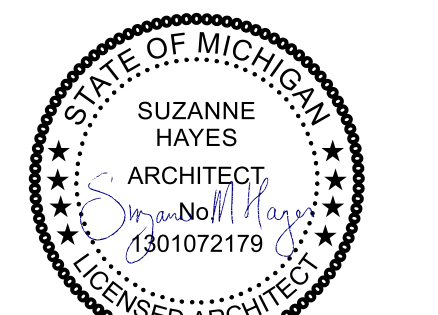
PRIMROSE SCHOOL FRANCHISING COMPANY
 3300 WINDY HILL ROAD, SUITE 1200 E
 ATLANTA, GEORGIA 30339-5640

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Date
 11/09/23

CONSTR. DOC. & REVISIONS
 Description
 1 CODE RESPONSE

No.
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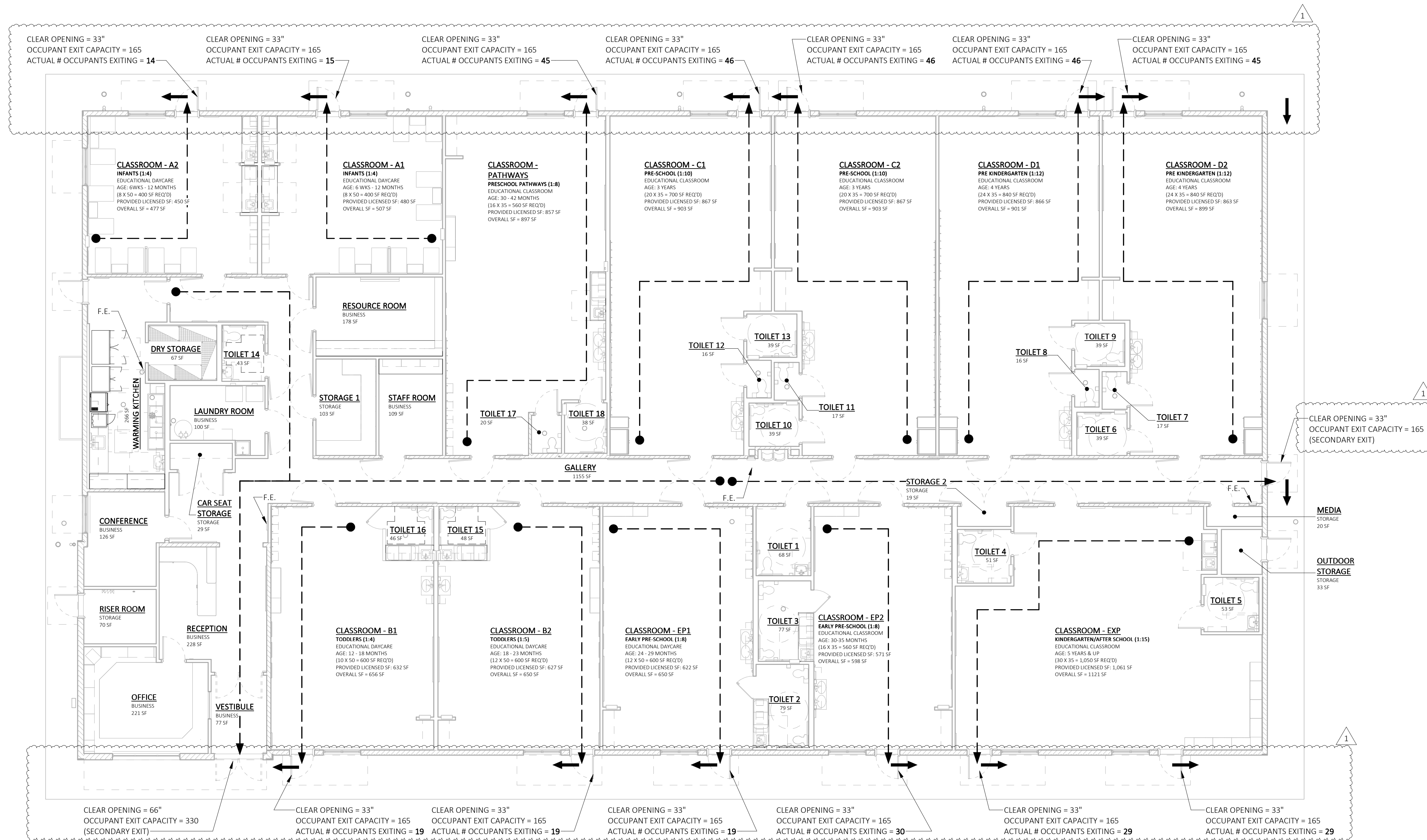
Professional of Record:
 Suzanne M Hayes
 LICENSE NO: 1301072179
 EXP. DATE: 12/19/24

Drawn/Checked DSC / ALA
 Project Number 2202640
 Bid Date --/--
 Permit Date 7/10/23
 For Construction --/--

ARCHITECTURAL
 SITE PLAN

X1.0

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PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



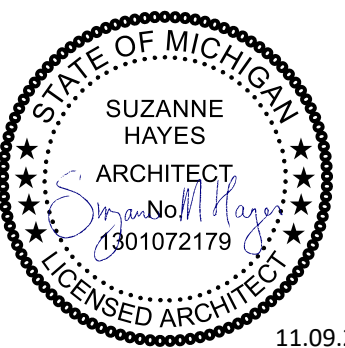
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Date
11/09/23

CONSTR. DOC. & REVISIONS
Description

No.
1

CODE RESPONSE



Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

Drawn/Checked DSC / ALA
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

BUILDING PROGRAM - MI

Primrose School - Michigan 06/06/2023

Name	Ages	Primrose S.F. Per Child	Michigan State Ratio	Michigan Max Group Size	PSFC Staff Ratio	PSFC Max Group Size	Proposed Room Capacity	Staff Required	Required Area S.F.
A1 - Infants	6 Wks - 12 Months	50	1:4	12	1:4	8	8	2	400
A2 - Infants	6 Wks - 12 Months	50	1:4	12	1:4	8	8	2	400
B1 - Toddlers	12 - 18 Months	50	1:4	12	1:6	12	12	3	600
B2 - Toddlers	18 - 23 Months	50	1:4	12	1:6	12	12	3	600
EP1 - Early Preschool	24 - 29 Months	50	1:4	12	1:8	16	12	3	600
EP2 - Early Preschool	30 - 35 Months	35	1:8	16	1:8	16	16	2	560
Preschool Pathways	30 - 42 Months	35	1:8	16	1:8	16	16	2	560
C1 - Preschool	3 Years	35	1:10	30	1:12	24	20	2	700
C2 - Preschool	3 Years	35	1:10	30	1:12	24	20	2	700
D1 - Pre - Kindergarten	4 Years	35	1:12	36	1:12	24	24	2	840
D2 - Pre - Kindergarten	4 Years	35	1:12	36	1:12	24	24	2	840
EXP - Kindergarten / After School	5 Years +	35	1:18	36	1:15	30	30	2	1050
						202	27		7,850

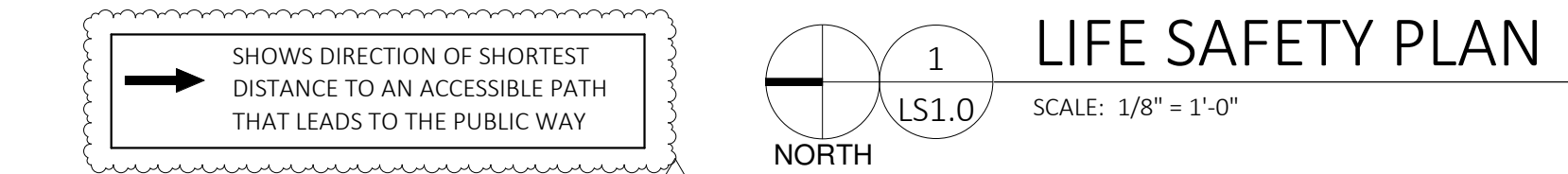
AREA	AREA SUM	OCCUPANTS	TOILET FIXTURES (TABLE 2902.1)
EDUCATION: DAYCARE	2,940 S.F. / 35 =	84	1 FIXTURE / 50 OCC. = 2 FIXTURES
EDUCATION: CLASSROOM	6,222 S.F. / 20 =	312	1 FIXTURE / 50 OCC. = 7 FIXTURES
KITCHEN:	266 S.F. / 200 =	2	1 FIXTURE / 25 OCC. = 1 FIXTURE
BUSINESS:	1,039 S.F. / 150 =	7	1 FIXTURE / 25 OCC. = 1 FIXTURE
STORAGE:	274 S.F. / 300 =	1	1 FIXTURE / 100 OCC. = 1 FIXTURE
HALL:	1,155 S.F. / 5 =	231	1 FIXTURE / 100 OCC. = 3 FIXTURES
TOILETS:	745 S.F. / 5 =	149	1 FIXTURE / 100 OCC. = 2 FIXTURES
TOTAL NET OCCUPANTS:		786	TOTAL: 17 FIXTURES
			TOILET FIXTURES PROVIDED: 20 FIXTURES

NOTE: EXTERIOR WALLS, TOILETS AND CORRIDORS ARE CONSIDERED UNOCCUPIED SPACE AND NOT CALCULATED IN THE OCCUPANCY.

EXIT REQUIREMENTS:
TRAVEL DISTANCE 250' (TABLE 1017.2)
MAXIMUM DEAD END CORRIDOR LENGTH 50' (SECTION 1020.4)
EGRESS WIDTH (INCHES PER OCCUPANT) 0.2" (SECTION 1005.1)
MINIMUM CORRIDOR OR AISLE WIDTH 44" (TABLE 1020.2)
MINIMUM CLEAR OPENING EXIT DOOR 32" (SECTION 1010.1.1)
MINIMUM DOOR HEIGHT 80" (SECTION 1010.1.1)

REQUIRED NUMBER OF EXITS: SECTION 1006
REQUIRED: (2) EXITS
PROVIDED: (16) EXITS

EXIT WIDTH:
REQUIRED: 406 OCCUPANTS x 0.2" = 81.2"
PROVIDED: 15 DOORS @ 33" = 495"
1 DOOR @ 66" = 66"
TOTAL PROVIDED = 561"
TOTAL: 561" PROVIDED > 81.2" REQUIRED



LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

CORRIDORS: SECTION 1020
CORRIDORS SHALL BE FIRE RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.1

A FIRE RESISTANCE RATING IS NOT REQUIRED FOR CORRIDORS IN AN OCCUPANCY GROUP E WHERE BUILDINGS ARE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 WHERE ALLOWED.

BUILDING HEIGHT:
MAXIMUM ALLOWABLE PER TABLE 504.3 = 60'-0"
ALLOWABLE NUMBER OF STORIES PER TABLE 504.4 = 2

ACTUAL BUILDING HEIGHT:
TOP OF HIGHEST RIDGE = 29'-0" +/-
ACTUAL NUMBER OF STORIES = 1

OCCUPANCY LOAD:
MAX. FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.5)

CALCULATED AREA

NAME	AREA
BUILDING SQUARE FOOT AREA SUMMARY	
EDUCATION & BUSINESS USE:	
EDUCATIONAL DAYCARE	2,940 SF
EDUCATIONAL CLASSROOM	6,222 SF
BUSINESS USE GROUP	1,039 SF
KITCHEN	266 SF
HALL	1,155 SF
TOILETS	745 SF
ACCESSORY USES:	
STORAGE USE GROUP	274 SF
INTERIOR WALLS	628 SF
NET AREA (INSIDE FACE OF EXT. WALLS)	13,269 SF
EXTERIOR WALLS	
	277 SF
TOTAL BUILDING S.F.	13,546 SF

TRAVEL DISTANCES

CLASSROOM - A1	30' - 7 3/4"
CLASSROOM - A2	28' - 10"
CLASSROOM - B1	36' - 6 5/8"
CLASSROOM - B2	38' - 6 5/8"
CLASSROOM - C1	58' - 1 1/4"
CLASSROOM - C2	58' - 0 1/2"
CLASSROOM - D1	57' - 11 1/2"
CLASSROOM - D2	57' - 11 1/4"
CLASSROOM - EP1	44' - 0 1/8"
CLASSROOM - EP2	37' - 11 3/4"
CLASSROOM - EXP	56' - 5 1/8"
CLASSROOM - PATHWAYS	59' - 7 3/4"
Hall Path 1	70' - 11 3/4"
Hall Path 2	99' - 0"
Hall Path 3	82' - 0 1/2"

LIFE SAFETY PLAN

LS1.0

SECTION 02200 - TERMITE CONTROL

- PART 1 - GENERAL
1. If the project is located in an area that does not have termites or other wood boring insects...

PART 2 - PRODUCTS

- 1. Soil treatment chemicals and installation shall be provided by a local company registered with the state to provide and install termite protection.

PART 3 - EXECUTION

- 1. Apply chemical to the soil under and around the building in strict accordance with federal, state and local regulations.

SECTION 02300 - PAVING AND SURFACING

PART 1 - GENERAL

- 1. See engineered site plan for site specific information regarding paving types.
2. All work shall comply with the requirements of the Standard State Highway Department Specifications.

SECTION 02350 EXTERIOR CONCRETE FLATWORK

PART 1 - GENERAL

- 1. Concrete Walks & Porches: Concrete shall be four (4) inches thick, air entrained and having a psi strength as specified in Section 03010, with 6x6 1.4/4.5 welded wire fabric...

SECTION 02351 - ASPHALTIC CONCRETE PAVING

PART 1 - GENERAL

- 1. Core tests shall be taken to verify thickness and subsurface compaction.
2. The entire installation shall comply with all local and state laws and ordinances.

PART 2 - PRODUCTS

- 1. Asphalt cement, fine aggregate, and coarse aggregate shall be in compliance with state highway department standards for parking areas and driveways.

PART 3 - EXECUTION

- 1. Check subgrade surface elevation prior to placement of asphaltic concrete paving; method subject to approval of Architect.
2. Proof roll prepared subgrade surface to check for unstable areas and areas needing additional compaction.

SECTION 02362 - PAVEMENT MARKING

PART 1 - GENERAL

- 1. Striping: All parking areas shall have four (4) inch white lines with separation between lines as shown on final approved Site Plan or as required by Local Code.

SECTION 02400 - STORM DRAINAGE

PART 1 - GENERAL

- 1. Where connection to storm drains is necessary, furnish and install all pipe, structures, gratings and drains (per local codes and/or specifications) in sizes as noted on engineered site plans.

SECTION 02500 - IRRIGATION SYSTEMS

PART 1 - GENERAL

- 1. Scope of the Work: a. The work consists of designing and installing a complete underground irrigation system as shown on the drawings and as hereinafter specified...

SECTION 02600 - VINYL COATED CHAIN LINK FENCE

PART 1 - GENERAL

- 1. Interior Fence shall be four feet (4'-0") high or height as shown on plans with six (6) gauge finish material with two (2) inch mesh fabric coated with aluminum or zinc.

SECTION 02625 - DECORATIVE IRON FENCE - Ameristar

PART 1 - GENERAL

- 1. If specified on the architectural site plan, interior fence shall be four feet (4'-0") high or height as shown on plans. Bolt ends on perimeter to face out. Color shall be black.

SECTION 02625 - DECORATIVE IRON FENCE - FORTRESS VERSAI ASSURANCE

PART 1 - GENERAL

- 1. Provide Ornamental Rackable welded steel fence system, Fortress Iron's VERSAI products including a 20-year limited warranty from the date of purchase for defects in material and workmanship including protection against cracking, peeling, blistering and corrosion (rusting). Color shall be black.

PART 2 - PRODUCTS

- 1. Rails are Grade A cold rolled steel formed U-Channel and Pickets are Grade A cold rolled steel formed and welded tubing, both conforming to ASTM A500 with G 60 zinc coating (0.60 oz/ft2) total inside and outside surfaces in accordance with the ASTM A123 hot dipped electroplating process.

PART 3 - EXECUTION

- 1. Stake layout showing locations of all gates and posts. Contact "CALL BEFORE YOU DIG" prior to beginning any excavation work.

SECTION 02700 - PLAYGROUND EQUIPMENT

PART 1 - GENERAL

- 1. The Contractor is responsible for providing and installing the playground equipment site area as specified on site plan, including final grading (maximum two (2) percent slope) suitable for installation of playground equipment.

REQUIRED VENDORS:

- PlayPower LT Farmington, Inc. OR, BCI Burke Company Refer to sheet A2.2 for contact information.

SECTION 02824 - ARTIFICIAL TURF SURFACING

PART 1 - GENERAL

- 1. Provide all labor, materials, equipment, and tools necessary for the complete installation of synthetic grass safety surface. Surface shall meet the requirements of ASTM F1292-13, that states that the surface must yield both a peak deceleration of no more than 200 g's and a Head Injury Criterion (HIC) value of no more than 1,000 for a headfall from the accessible height of the play equipment.

PART 2 - PRODUCTS

- 1. SYNTHETIC GRASS SAFETY SURFACE
A. Aggregate Base - 1/2" Screenings, 3/4" Clean Aggregate, Compacted 4" deep (Refer to Section 3.2-3).

- a. Face Weight: 53 oz/sy
b. Face Yarn Type: Polyethylene
c. Yarn Size: 10800/7300
d. Pile Height: 1.55"

PART 3 - EXECUTION

- 1. GROUND PREPARATION:
a. General: The ground area to receive synthetic grass safety surface is indicated on the Drawings.

SECTION 02900 - LANDSCAPING

PART 1 - GENERAL

- 1. Sodding Of Lawn Areas - See Landscape Plan for locations:
a. Variety of sod shall be per the site plan, or as selected by the Owner's representative.

PART 2 - PRODUCTS

- 1. SYNTHETIC GRASS SAFETY SURFACE
A. Aggregate Base - 1/2" Screenings, 3/4" Clean Aggregate, Compacted 4" deep (Refer to Section 3.2-3).

- 1. Sodding Of Lawn Areas - See Landscape Plan for locations:
a. Variety of sod shall be per the site plan, or as selected by the Owner's representative.

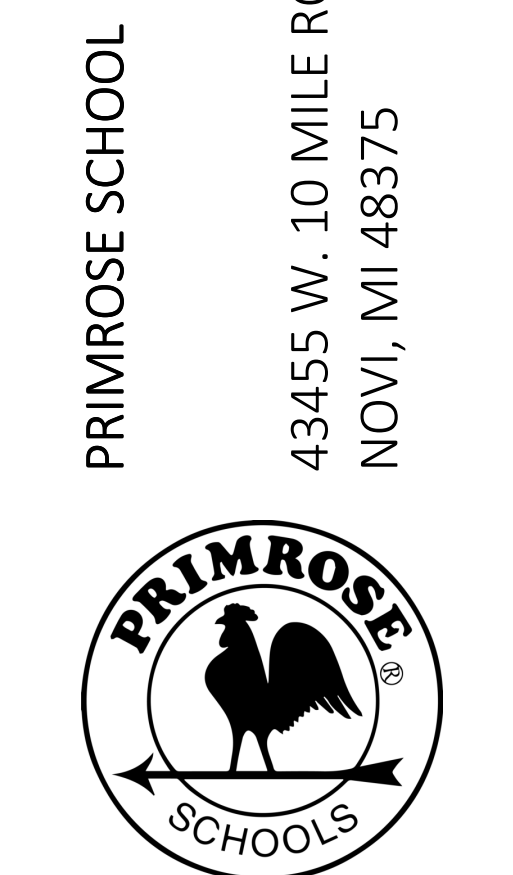
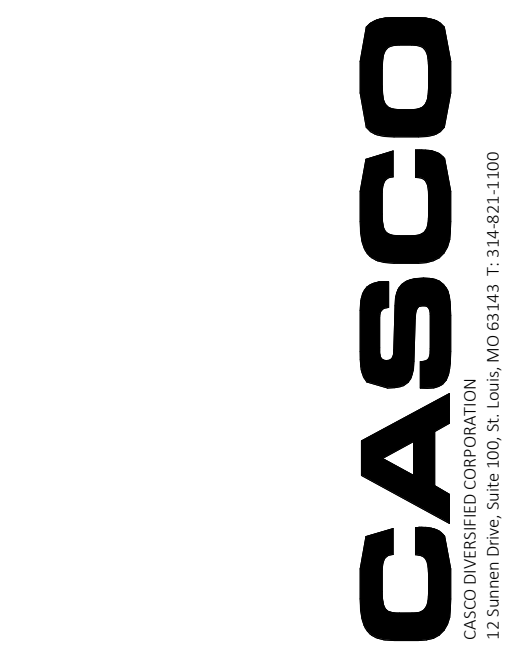
SECTION 03010 - POURED-IN-PLACE CONCRETE

PART 1 - GENERAL

- 1. Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed on at least one composite sample for each 50 cubic yard or fraction thereof of each concrete mixture placed each day.

PART 2 - PRODUCTS

- 1. Concrete properties for concrete exposed to freeze/thaw cycles shall be determined from designated Exposure Category F Class F2 as described in Section 4.2.1 of the latest edition of ACI 318, unless noted otherwise.



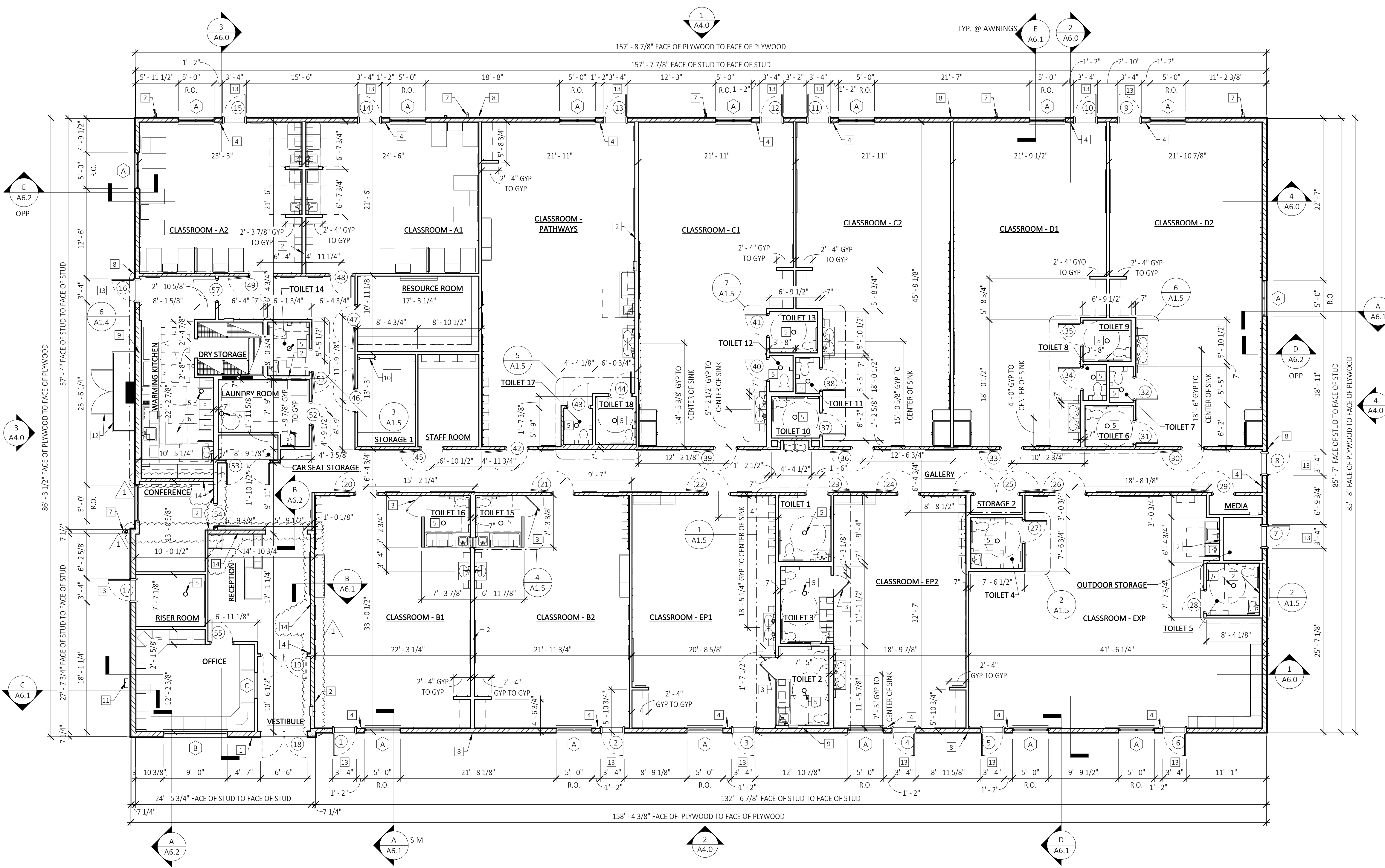
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Table with columns: No., Description, Date, and No. of revisions. Includes project details like 'Drawn/Checked DSC / ALA' and 'Project Number 2202640'.

SPECIFICATIONS

A0.2



FLOOR PLAN LEGEND

- EXTERIOR SHEAR/BEARING WALL (ENTRY TOWER EXTERIOR WALLS): STONE VENEER AND HARDIE BOARD AND BATTEN SIDING ON 2X8 WOOD STUDS @ 16" O.C. WITH EXTERIOR SHEATHING AND 5/8" GYPSUM BOARD UP TO ROOF DECK ON INTERIOR - SEE EXTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS.
 - EXTERIOR SHEAR/BEARING WALL (MAIN BLDG EXTERIOR WALLS): HARDIE BOARD AND BATTEN SIDING/ THIN STONE/ THIN BRICK ON 2X6 WOOD STUDS @ 16" O.C. WITH EXTERIOR SHEATHING AND 5/8" GYPSUM BOARD UP TO ROOF DECK ON INTERIOR - SEE EXTERIOR ELEVATIONS AND STRUCTURAL DRAWINGS.
 - TYPICAL INTERIOR BEARING WALL: 2X4 OR 2X6 WOOD STUDS @ 12" O.C. (MAX.) TO BOTTOM OF ROOF TRUSSES. PROVIDE 5/8" GYPSUM BOARD TO 6" ABOVE CEILING BOTH SIDES, PROVIDE GYPSUM BOARD TO BOTTOM OF STRUCTURE AT SOUND WALLS, SEE REFLECTED CEILING PLAN FOR LOCATIONS. - SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - TYPICAL INTERIOR WALL: 2X4 WOOD STUDS @ 16" O.C. TO BE FRAMED 1" BELOW BOTTOM CHORD OF TRUSS, THEY SHALL BE ATTACHED WITH SIMPSON STC ROOF TRUSS CLIP TO ALLOW FOR VERTICAL MOVEMENT WHEN LOADS ARE APPLIED. SIMPSON STRONG-TIE SHALL BE PLACED EVERY 48" O.C.. WALL IS TO HAVE 5/8" GYPSUM BOARD TO 6" ABOVE CEILING BOTH SIDES, PROVIDE GYPSUM BOARD TO BOTTOM OF STRUCTURE AT SOUND WALLS, SEE REFLECTED CEILING PLAN FOR LOCATIONS.
 - TYPICAL INTERIOR HALF WALL: 2X4 WOOD STUDS @ 16" O.C. WITH 5/8" GYPSUM BOARD ON BOTH SIDES. SEE DETAILS 7 AND 8/A2.4
 - DOOR TAG, SEE DOOR SCHEDULE.
 - WINDOW TAG, SEE WINDOW LEGEND.
- NOTES:
 1. NOMINAL DIMENSIONS ARE TO FACE OF STUD.
 2. PROVIDE DOUBLE 2X4 WOOD STUD WALLS BEHIND ALL TOILETS, AT ELECTRICAL PANELS AND WALL BETWEEN LAUNDRY AND KITCHEN.

FLOOR PLAN KEYED NOTES

- 1 PROVIDE A KNOX BOX NEAR THE FRONT ENTRANCE FOR FIRE DEPT. ACCESS. COORDINATE WITH LOCAL FIRE OFFICIAL.
- 2 2 X 6 STUD WALL
- 3 HALF HEIGHT GATE, PART OF MILLWORK PACKAGE. SEE DETAIL 7/A2.4
- 4 PROVIDE TACTILE EXIT SIGN AT LATCH SIDE OF EXIT DOOR
- 5 FLOOR DRAIN, SEE PLUMBING
- 6 GREASE TRAP, SEE PLUMBING
- 7 DOWNSPOUT. SEE EXTERIOR ELEVATIONS FOR EXACT LOCATION. COORDINATE WITH CIVIL DRAWINGS FOR UNDERGROUND PIPING CONNECTIONS (TYP.)
- 8 HOSE BIBB. SEE PLUMBING DRAWINGS. COORDINATE WITH INTERIOR WALL.
- 9 PROVIDE AN ADDITIONAL 2 X 4 STUD WALL AT INTERIOR SIDE OF THE EXTERIOR WALL. BOTH STUD SPACES ARE TO BE FULLY INSULATED. PIPING SHOULD ONLY BE PLACED IN THE INSULATED INTERIOR WALL.
- 10 ROOF ACCESS LADDER. CENTER LADDER ON ROOF HATCH ABOVE. SEE DETAIL 1/A2.4
- 11 LOCATION OF GAS METER, SEE MECHANICAL AND PLUMBING DRAWINGS
- 12 4"-0" HIGH SOLID VINYL FENCE WITH (2) 3"-0" WIDE GATES
- 13 PROVIDE A ROUGH OPENING OF 40 1/2" WIDE x 86 1/4" TALL AT EXTERIOR DOOR OPENINGS FOR METAL DOOR FRAMES. VERIFY WITH DOOR CONTRACTOR FOR REQUIRED FRAME OPENING
- 14 AT INTERIOR BEARING WALLS OF TOWER, AND CONFERENCE ROOM WALLS (WHERE NOTED), PROVIDE GYPSUM BOARD UP TO ROOF DECK ON (1) SIDE OF WALL. SEE SECTIONS FOR ADDITIONAL INFORMATION.

GENERAL FLOOR PLAN NOTES

1. ALL INTERIOR DIMENSIONS ARE TO FACE OF STUDS, UNLESS NOTED OTHERWISE.
2. ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF STUD OR ROUGH OPENING, UNLESS NOTED OTHERWISE.
3. PROVIDE BLOCKING IN WALL BEHIND ALL WALL MOUNTED FIXTURES & CASEWORK (TYPICAL).
4. CONTROLS AND OPERATING MECHANISMS:
 CONTROLS SPECIFICALLY INTENDED FOR ADULTS SUCH AS INTERCOMS, THERMOSTATS, ETC, SHALL BE MOUNTED AT 48" A.F.F. TO THE OPERATING PARTS. CONTROLS SUCH AS LIGHT SWITCHES, ALARM CONTROLS, SHALL BE MOUNTED AT 48" A.F.F. TO THE OPERATING PARTS. VERIFY WITH OWNER BEFORE INSTALLING CONTROLS.
5. SECURITY SYSTEM NOTES:
 A. THIS IS A REQUIRED SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR HIRING A LICENSED SECURITY FIRM FOR THEIR SCHOOL.
 B. SECURITY SYSTEM SUBCONTRACTOR TO SEAL ALL WIRING PENETRATIONS FOR SECURITY SYSTEM AT POINTS OF CONTACT.
6. BUILDING ADDRESS MUST BE VISIBLE FROM THE STREET. NUMBER HEIGHT A MINIMUM OF 6" FOR UP TO 50' DISTANCE, THEN LETTERS SHALL BE AN ADDITIONAL 1" TALLER PER EACH ADDITIONAL 10'-0" OF DISTANCE.
7. THERE ARE NO RECEPTACLES IN ANY OF THE TOILET ROOMS.
8. HOLD DOORS 4" FROM WALLS UNLESS NOTED OTHERWISE
9. G.C. SHALL CONFIRM EXACT QUANTITY & LOCATION OF SOAP AND PAPER TOWEL DISPENSERS WITH FRANCHISE OWNER PRIOR TO ORDERING.
10. ALL PARTITIONS EXTEND TO UNDERSIDE OF ROOF TRUSSES, UNLESS NOTED OTHERWISE, REFER TO BUILDING SECTIONS FOR ADDITIONAL INFORMATION.
11. REFER TO REFLECTED CEILING PLAN FOR LOCATION OF SOUND BATTS.
12. ALL DOWNSPOUTS ARE TO BE ROUTED TO UNDERGROUND STORM DRAIN SYSTEM.
13. ALL INTERIOR WALLS ARE 2X4s WITH 5/8" GYPSUM BOARD EACH SIDE, UNLESS NOTED OTHERWISE.
14. MOISTURE RESISTANT GYPSUM BOARD REQUIRED IN TOILET ROOMS, KITCHEN, AT WATER COOLERS AND LAUNDRY ROOM.
15. JOINT ALONG PERIMETER OF BUILDING AT ADJOINING FLATWORK SHALL BE SEALED.
16. MINIMUM R-VALUES:
 EXTERIOR WALLS = R-21 KRAFT FACED
 ROOF = R-38 (SEE SPECIFICATIONS)

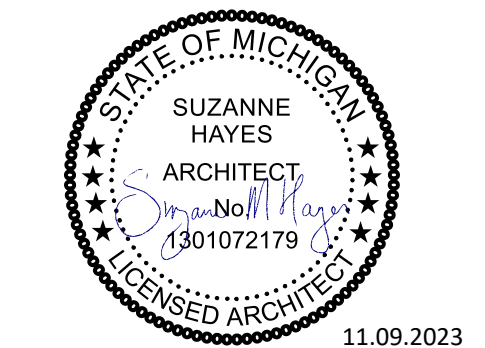
FLOOR PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

PRIMROSE SCHOOL
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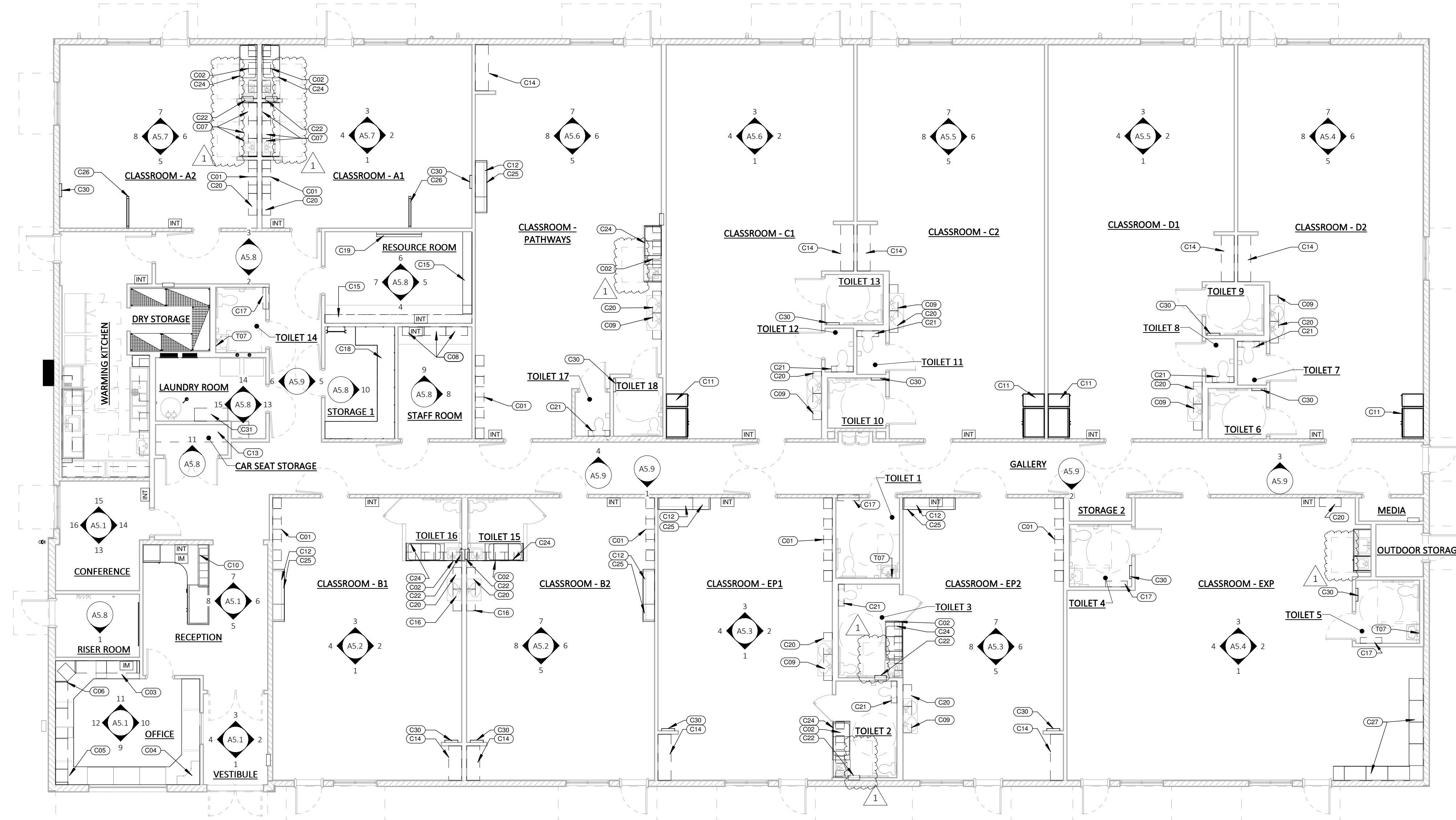


Professional of Record:
 Suzanne M Hayes
 LICENSE NO: 1301072179
 EXP. DATE: 12/19/24

Drawn/Checked	DSC / ALA
Project Number	2202640
Bid Date	--/--
Permit Date	7/10/23
For Construction	--/--

FLOOR PLAN

A1.1



1 CASEWORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

ACCESSORY GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL FASTEN ALL ITEMS WITH APPROVED FASTENERS, ETC. AND MISC. ITEMS WHICH THE OWNER NEEDS TO HAVE PERMANENTLY ATTACHED TO WALLS OR FLAT SURFACES.
2. CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THERE ARE NO OUTLETS, INTERCOMS, SWITCHES, THERMOSTATS, ETC. LOCATED BEHIND AND BULLETIN BOARD LOCATIONS.
3. REFER TO ENLARGED TOILET ROOM PLANS AND TOILET ROOM ELEVATIONS FOR TOILET ROOM ACCESSORIES.
4. SEE INTERIOR ELEVATIONS AND FFE PLAN FOR ANY ADDITIONAL CASEWORK OR EQUIPMENT NOT SHOWN OR NOTED ON THIS PLAN.
5. REFER TO FFE PLAN FOR INSTALLATION REQUIREMENTS.

CABINETRY NOTES

1. ALL BASE CABINET PARTS, DRAWER FRONTS AND DOORS SHALL BE FABRICATED FROM 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH. CABINET BACK PANEL SHALL BE 1/4" HARDBOARD W/ PLASTIC LAM. FINISH AND 1X4 WOOD BLOCKING CONT. SEE CABINETRY SPEC. AND DETAILS FOR CONSTRUCTION.
2. ALL WALL MOUNTED CABINET PARTS AND DOORS SHALL BE FABRICATED FROM 3/4" PARTICLE BOARD W/ PLASTIC LAMINATE FINISH. CABINET BACK PANEL SHALL BE 3/8" PLYWOOD W/ PLASTIC LAM. FINISH AND 1X4 WOOD BLOCKING CONT. SEE CABINETRY SPEC. AND DETAILS FOR CONSTRUCTION.
3. ALL CABINET DOORS AND DRAWERS IN CLASSROOMS TO HAVE CHILD RESISTANT KEY TYPE LATCHING DEVICES. USE METAL DRAWER SIDES WITH POWDER-COATED EPOXY FINISH INSTEAD OF PLYWOOD BOXES U.N.O.
4. ALL COUNTERTOPS TO HAVE 1 1/2" MIN. RADIUS ROUNDED CORNERS. ALL SHARP CORNERS SHALL BE CHAMFERED OR ROUNDED OVER.
5. ALL CASEWORK TO HAVE GAPS AND VOIDS FILLED WITH APPROPRIATE CAULK SEALANT, APPLIED PER MFG. SPECS. SILICONE SEAL ALL JUNCTURES BETWEEN PLASTIC LAMINATE TOPS, BACKSPLASHES, AND WALLS.
6. PULLS SHALL BE CHROME BOW.
7. ALL FOOD STORAGE SHELVES SHALL HAVE A SMOOTH, CLEANABLE AND DURABLE FINISH AT ALL SIDES OF SHELVES. NO EXPOSED RAW WOOD FINISH.
8. USE PVC FOR ALL CABINET EDGE BANDING.
9. USE MELAMINE ON VERTICAL SURFACES.
10. ALL CABINET INTERIORS TO BE WHITE MELAMINE.
11. BLOCKING- G.C. TO PROVIDE ADEQUATE WOOD BLOCKING IN WALLS FOR ALL CABINETS, SHELVES AND ANY OTHER WALL MOUNTED ITEM, AS REQUIRED.
12. SEE A2.2 FOR PLASTIC LAMINATE COLORS.
13. CASEWORK SHALL BE KEVED AS FOLLOWS:
 1. OFFICE AND CHECKS
 2. RECEPTION, KITCHEN
 3. CLASSROOMS

CASEWORK SCHEDULE

TYPE MARK	ITEM (REFER TO FFE SCHEDULE ON SHEET ID1.0 FOR "F" TAGGED ITEMS)	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY				o
C02	CUBBIES ABOVE CHANGE TABLE				o
C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED				o
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET				o
C05	16" DEEP X 1'-6"W X 3'-6"H SURFACE MOUNTED				o
C06	16" DEEP X 1'-3"W X 3'-6"H SURFACE MOUNTED				o
C07	12" DEEP X 2'-0"W X 2'-0" WALL CABINET				o
C08	12" DEEP X 2'-6"W X 3'-3" WALL CABINET				o
C09	12" DEEP X 3'-0"W X 3'-0" WALL CABINET				o
C10	RECEPTION DESK CABINETS				o
C11	30" X 40" CURRICULUM CABINET				o
C12	16" DEEP X 4' LONG WALL CABINET				o
C13	CAR SEAT STORAGE SHELVING				o
C14	24"D x 36"L ADJ. WD SHELVES W/ 1'-6" L STANDARDS				o
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS				o
C16	12" DEEP X 3'-0"W X 3'-0" SURFACE MOUNTED				o
C17	8" DEEP X 2'-6"W X 3'-0" SEMI- RECESSED				o
C18	STORAGE ROOM SHELVING				o
C19	PAPER ROLL HOLDER				o
C20	12" DEEP X 2'-6" LONG WOOD SHELF				o
C21	8" DEEP X 2'-6"W X 3'-0" SURFACE MOUNTED				o
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS				o
C23	KITCHENETTE BASE CABINETS				o
C24	BABY CHANGING TABLE (SNEEZE GAURDS ONLY OCCUR AT POTTY PODS OR AT CHANGING TABLES THAT ARE NOT AGAINST A WALL)				o
C25	"PUT DOWN" COUNTER				o
C26	MOBILE INFANT PARTITION, SEE DETAIL 9/A2.4				o
C27	LOCKERS, SEE ELEVATIONS				o
C28	SINGLE LAVATORY				o
C29	DOUBLE LAVATORY				o
C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				o
C31	LAUNDRY ROOM STORAGE SHELVING				o
C32	16" DEEP X 3'-0"W X 3'-6"H SURFACED MOUNTED				o

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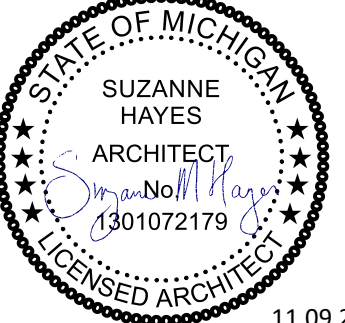
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Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

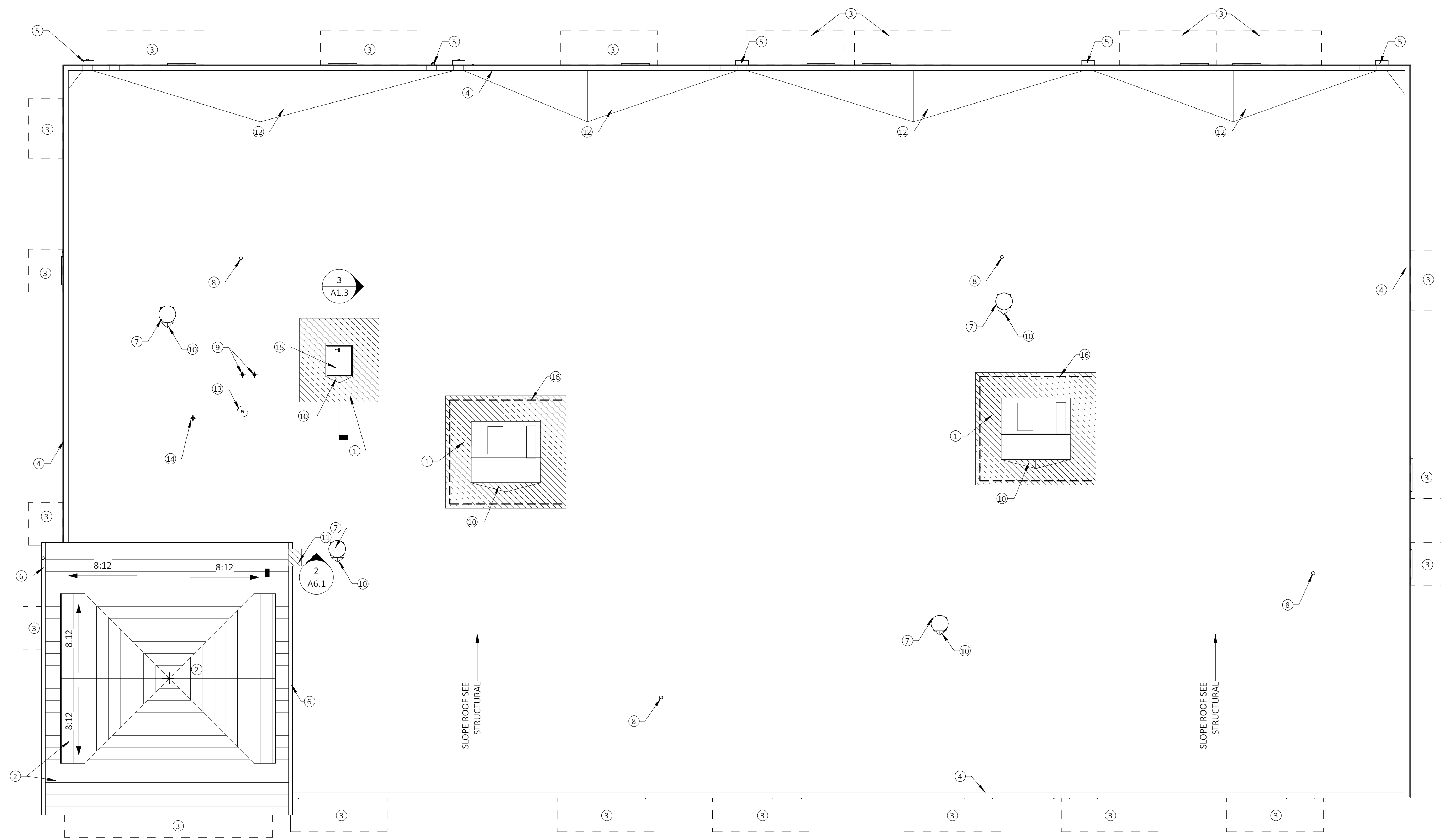
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GENERAL ROOF PLAN NOTES

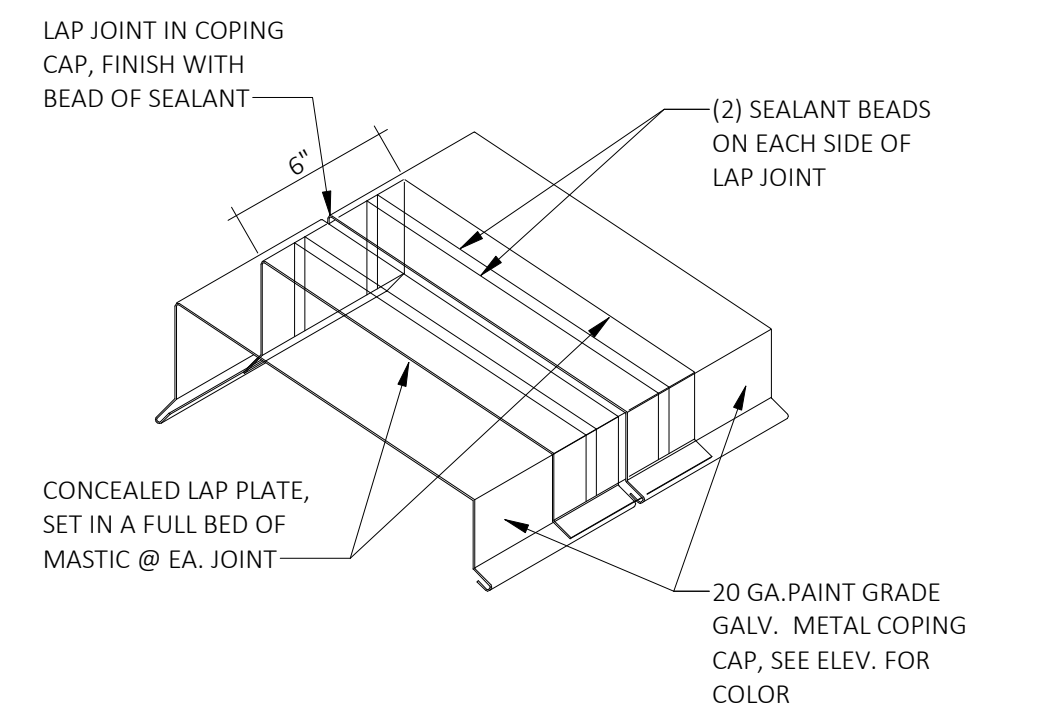
- ALL ROOF MOUNTED EQUIPMENT SHALL BE PAINTED TO MATCH ROOF COLOR.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- VERIFY LOCATIONS OF ALL ROOF PARAMETERS WITH STRUCTURAL, PLUMBING, MECHANICAL, AND ARCHITECTURAL DRAWINGS.
- ALL EQUIPMENT ON ROOF TO BE MOUNTED ON CURBS.
- EXHAUST FANS AND VENTS TO BE LOCATED A MINIMUM OF 10'-0" FROM A.C. INTAKE AND A MIN. OF 5'-0" FROM PARAPET WALLS. VERIFY ALL LOCATIONS WITH PLUMBING AND MECHANICAL DRAWINGS.
- ALL ROOF PENETRATIONS TO BE SEALED BY A GENERAL CONTRACTOR.
- SEE MECHANICAL/PLUMBING DRAWINGS FOR ADDITIONAL NOTES, DETAILS, VENTS, ETC.
- MECHANICAL SUB-CONTRACTOR TO COORDINATE INSTALLATION AND ACCEPTANCE OF PRE-FABRICATED CURBS AND PENETRATIONS WITH ROOF MEMBRANE SUB-CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE BLOCKING, NAILING, ETC. AS NECESSARY FOR A WATERTIGHT AND WATERPROOF BUILDING.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY, COORDINATE, AND/OR INSTALL ALL ADJACENT AND/OR RELATED FLASHING, BLOCKING, NAILERS, INSULATION STOPS, CRICKETS, ETC. NECESSARY FOR THE COMPLETE INSTALLATION OF THE ROOF MEMBRANE WHICH ARE REQUIRED FOR A COMPLETE WARRANTED, WATERTIGHT, AND WATERPROOF INSTALLATION.
- ALL ROOF PENETRATIONS REQUIRE PRESSURE TREATED 2 X 6 WOOD BLOCKING AT INSULATION AROUND ENTIRE PERIMETER OF OPENING FOR FLASHING ATTACHMENT IN ACCORDANCE W/ SELECTED ROOF TYPE.
- GAS PIPING ON ROOF TO BE PAINTED: YELLOW, UNLESS PROHIBITED BY SPECIFIC JOB CONDITIONS. IF THIS OCCURS, VERIFY PAINT COLOR W/ OWNER'S REPRESENTATIVE PRIOR TO PAINTING.
- DO NOT ATTACH 4 X 4 WOOD SLEEPERS TO DECK FOR SUPPORT OF GAS PIPING. PROVIDE MEMBRANE-ROOFING PADS BELOW SLEEPERS.

ROOF PLAN KEYED NOTES

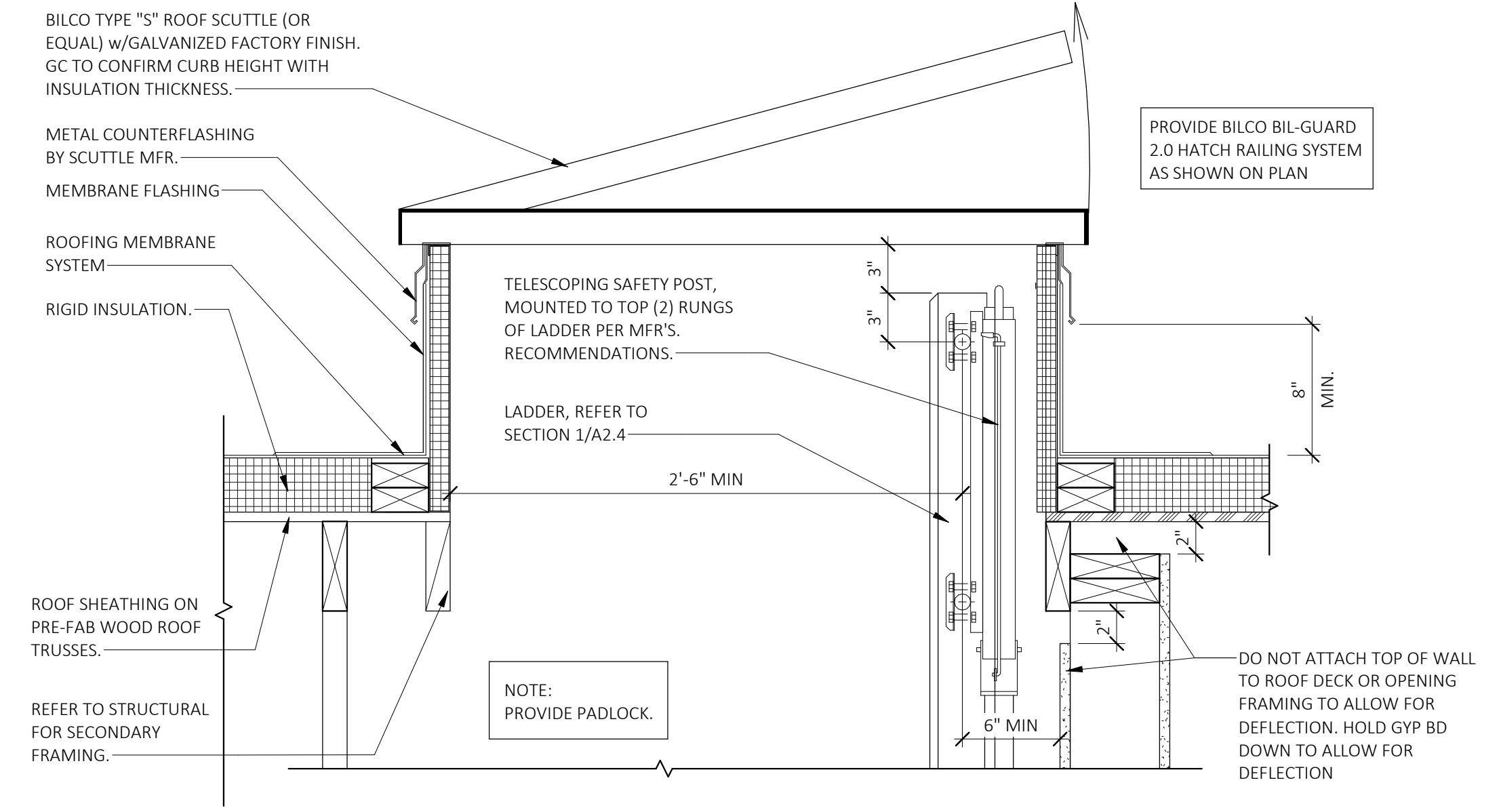
- 3'-0" PVC WALK PAD AT RTU OR ROOF HATCH AS REQUIRED BY MANUFACTURER.
- STANDING SEAM METAL ROOF. REFER TO EXTERIOR ELEVATIONS FOR COLOR.
- METAL AWNING BELOW. REFER TO EXTERIOR ELEVATIONS FOR COLOR.
- METAL PARAPET COPING. SEE EXTERIOR ELEVATIONS FOR COLOR.
- METAL SCUPPER BOX AND DOWNSPOUT. REFER TO EXTERIOR ELEVATIONS AND SECTIONS.
- ALUMINUM GUTTER. SEE EXTERIOR ELEVATIONS FOR COLOR.
- EXHAUST FAN. REFER TO MECHANICAL DRAWINGS.
- PLUMBING VENT. REFER TO PLUMBING DRAWINGS.
- DRYER VENT. REFER TO MECHANICAL DRAWINGS.
- BUILT-UP TAPERED RIGID INSULATION CRICKET, TYPICAL.
- AT DOWNSPOUT, PROVIDE 24" X 24" WALK PAD AS SPLASH BLOCK
- BUILT-UP TAPERED RIGID INSULATION CRICKET. HOLD 4" (MAX) ABOVE PRIMARY DRAIN ELEVATION.
- HOSE BIBB. REFER TO PLUMBING DRAWINGS.
- WATER HEATER CONCENTRIC VENT. REFER TO PLUMBING DRAWINGS.
- 30" X 36" ROOF HATCH, SEE 3/A1.3
- RTU SCREENED ON 3 SIDES AS SHOWN, FIELD PAINT TO MATCH SIDING COLOR "ARCTIC WHITE". PROVIDED BY CAPTIVE AIRE. BOLTED TO RTU CURB. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.



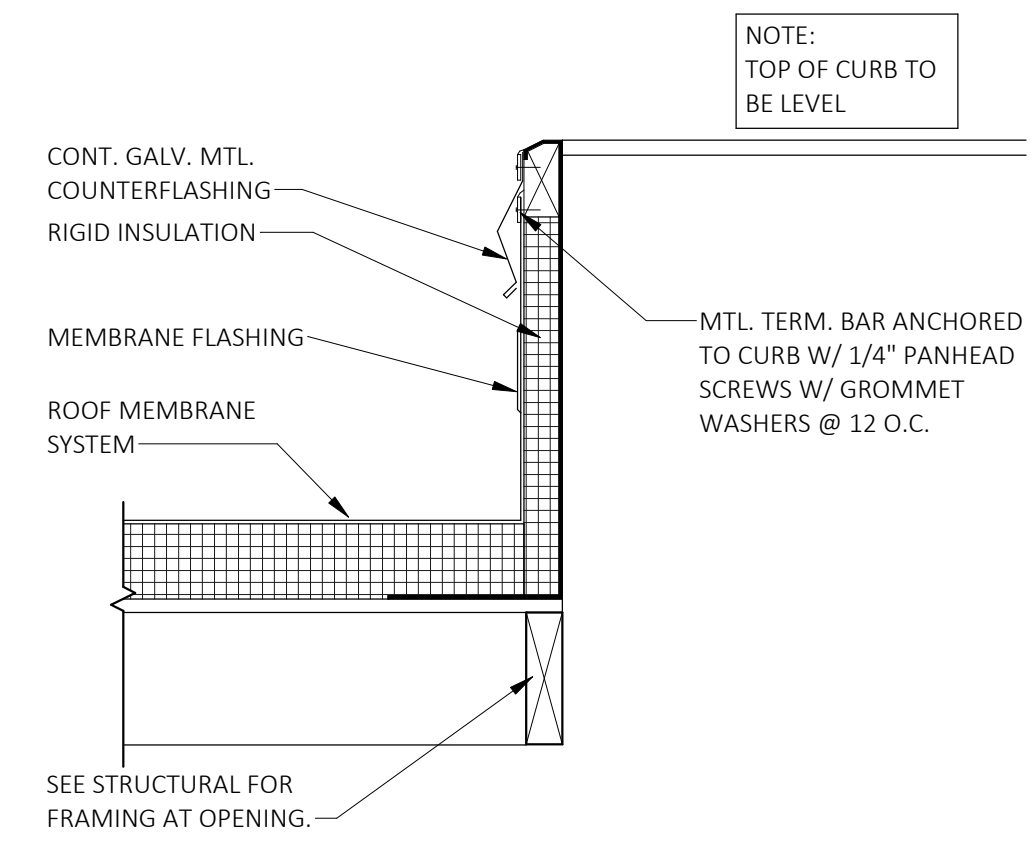
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SCALE: 1/8" = 1'-0"
NORTH



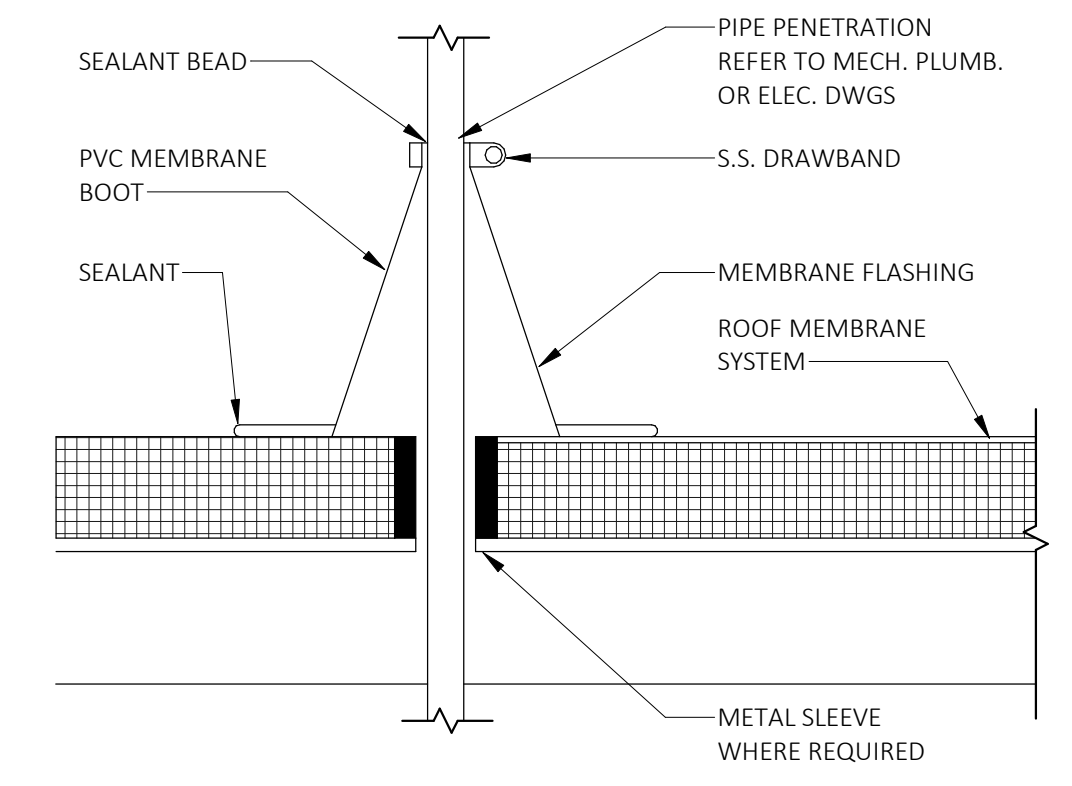
2 TYP. COPING LAP JOINT
SCALE: 1 1/2" = 1'-0"



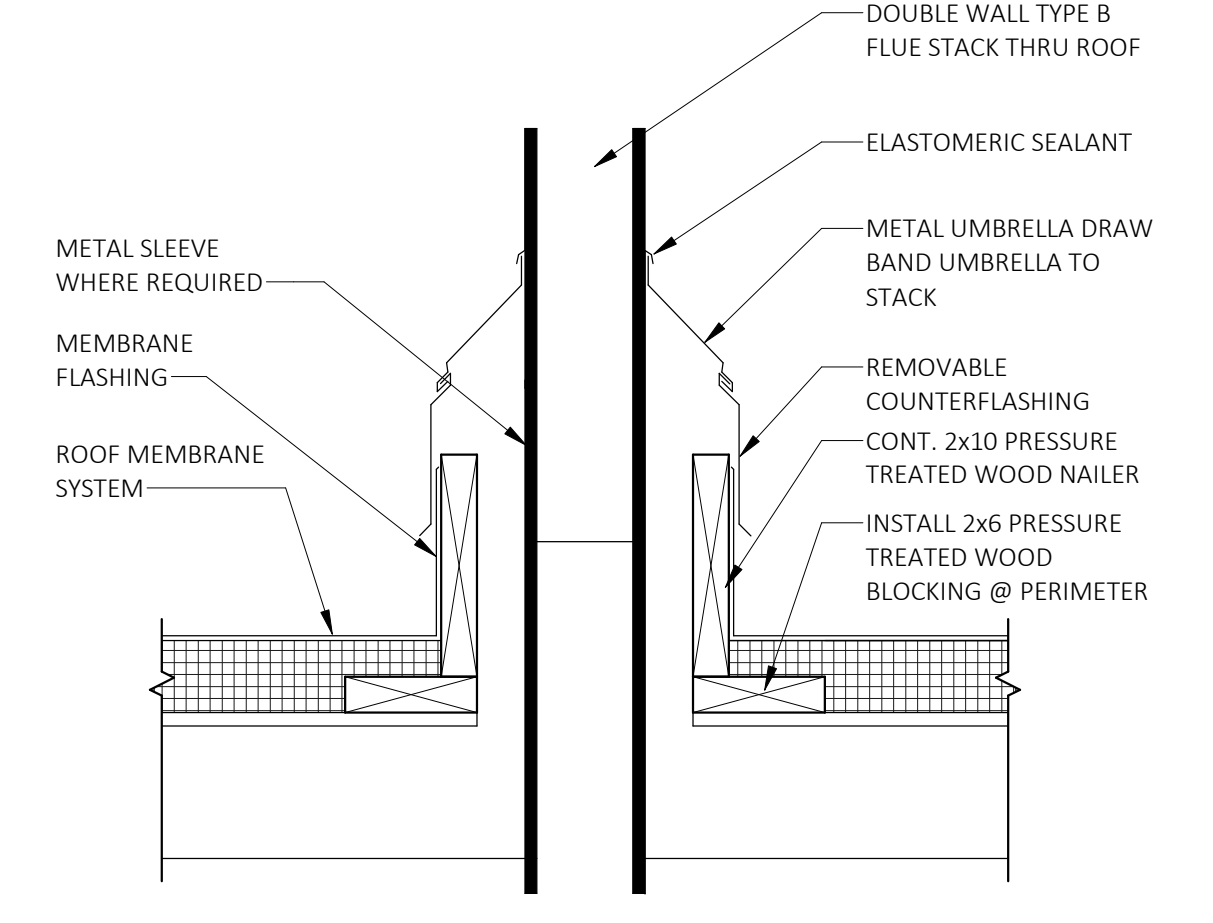
3 DETAIL @ ROOF HATCH
SCALE: 1 1/2" = 1'-0"



4 DETAIL @ RTU CURB
SCALE: 1 1/2" = 1'-0"

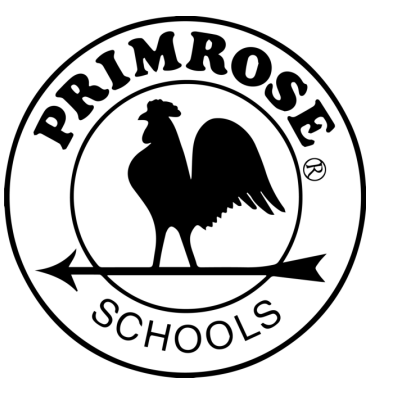


5 DETAIL @ PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"



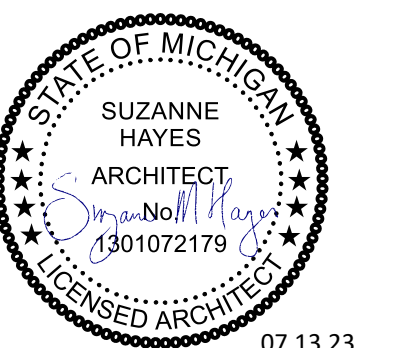
6 DETAIL @ FLUE PENETRATION
SCALE: 1 1/2" = 1'-0"

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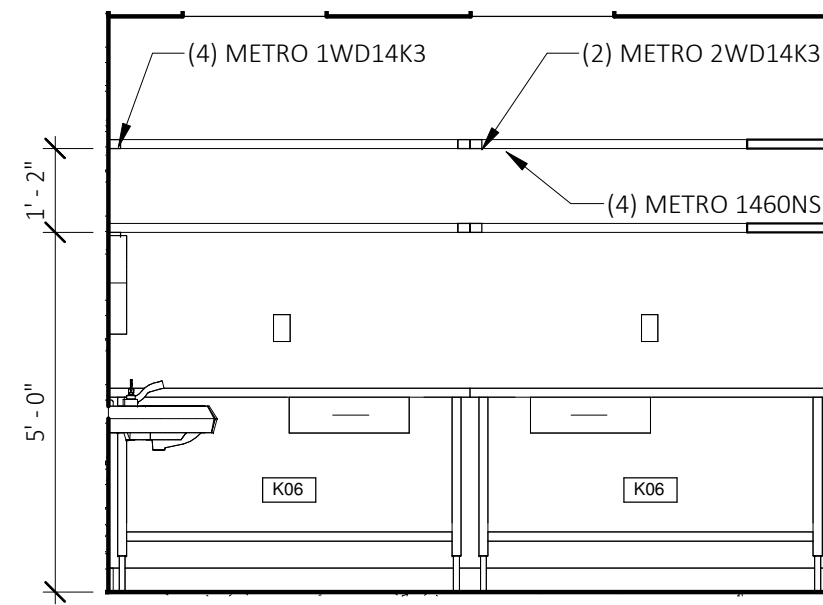


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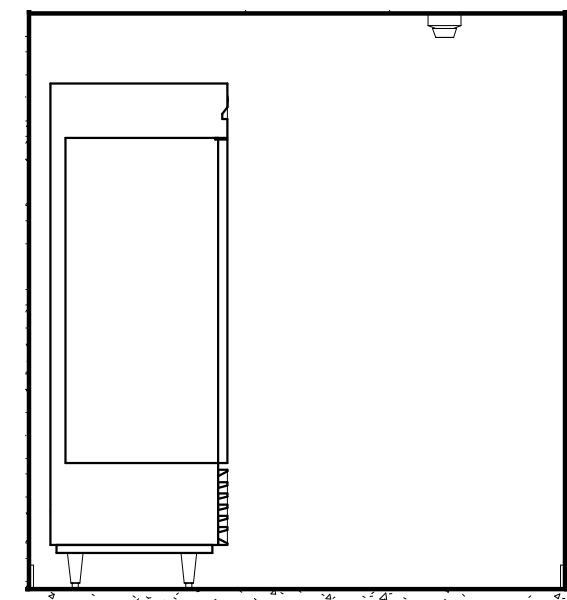
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ROOF PLAN

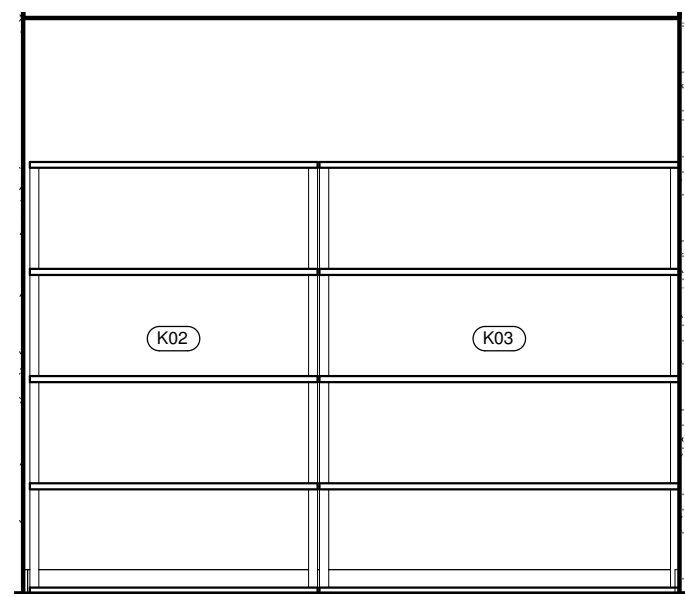
A1.3



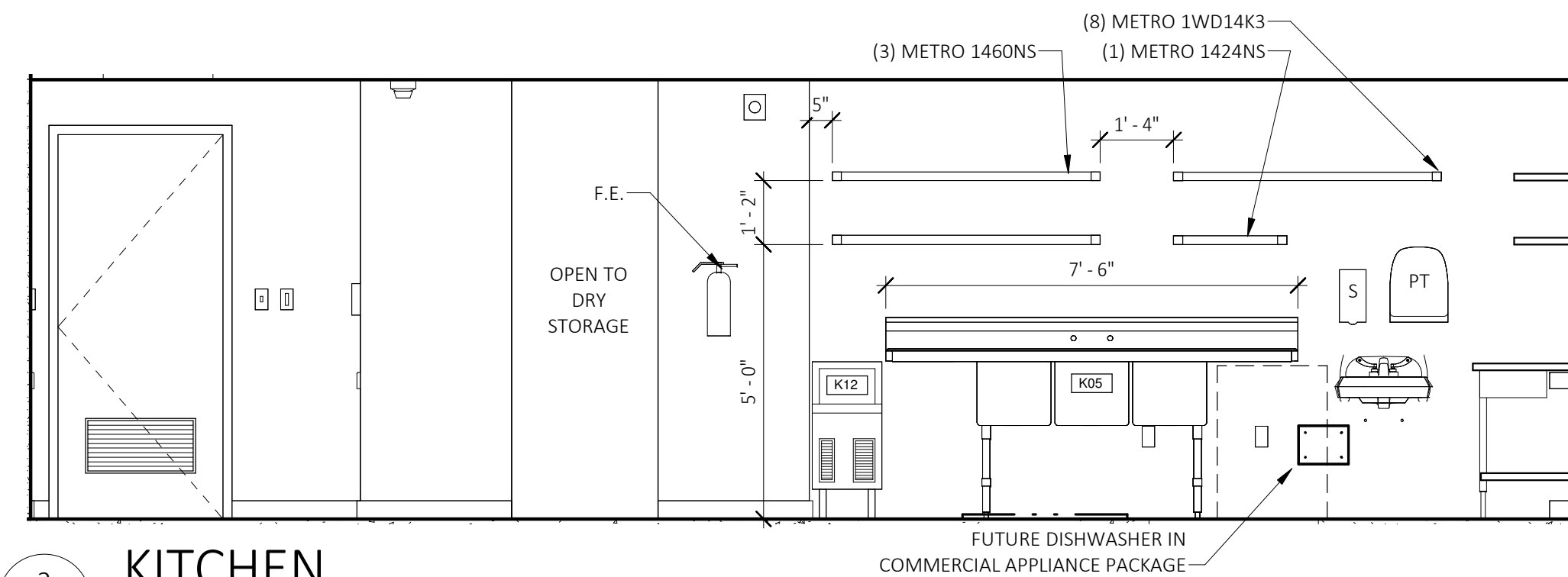
1 KITCHEN
A1.4 SCALE: 3/8" = 1'-0"



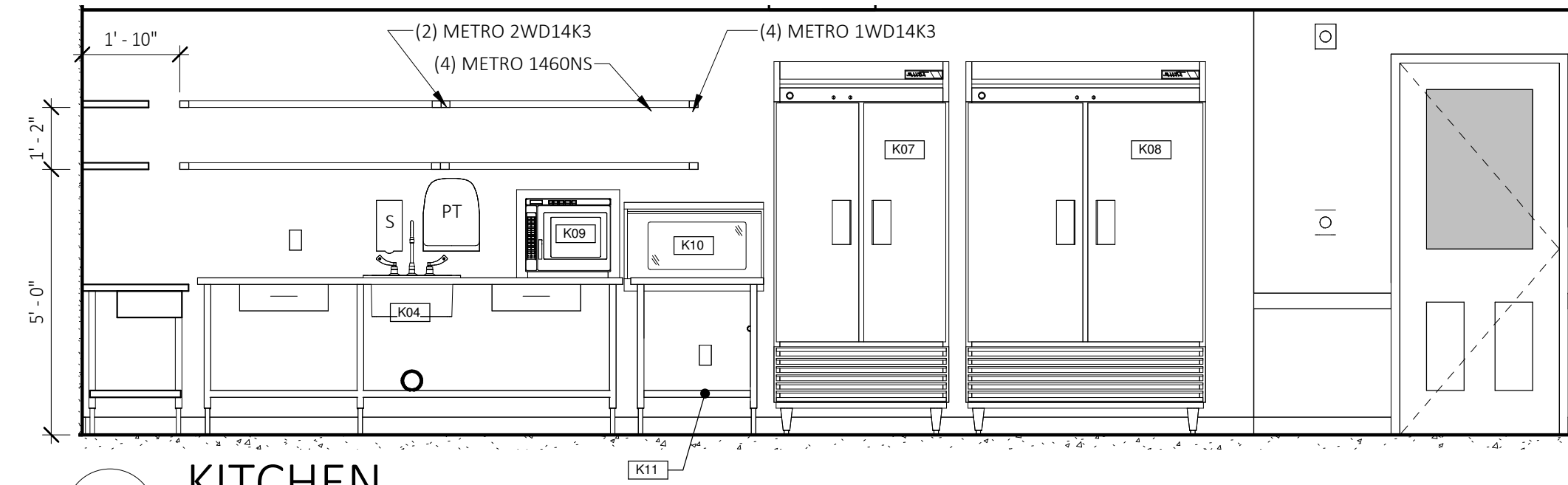
3 KITCHEN
A1.4 SCALE: 3/8" = 1'-0"



5 DRY STORAGE
A1.4 SCALE: 3/8" = 1'-0"

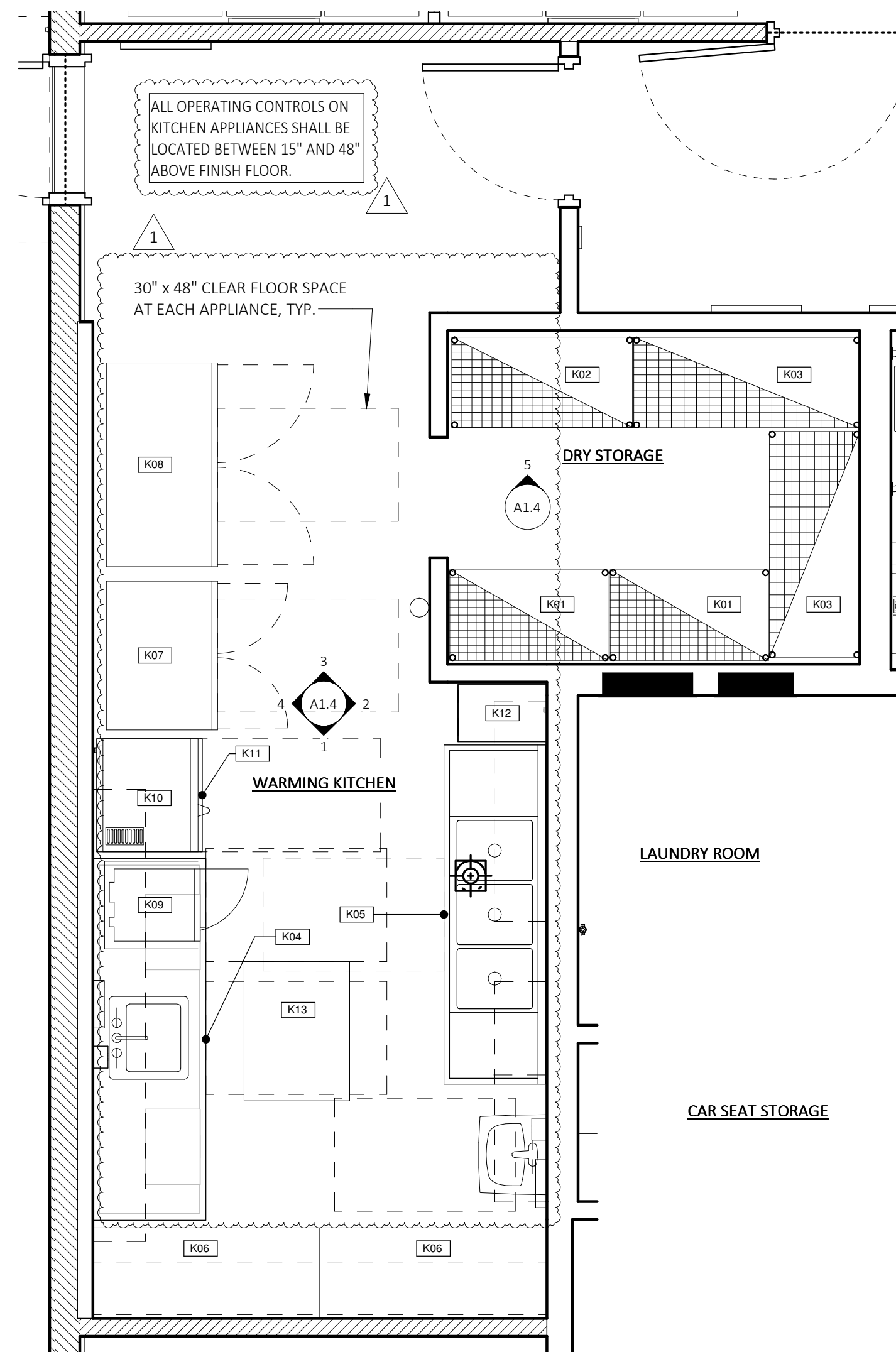


2 KITCHEN
A1.4 SCALE: 3/8" = 1'-0"



4 KITCHEN
A1.4 SCALE: 3/8" = 1'-0"

PROVIDE WALL BLOCKING FOR ALL WALL HUNG SHELVING & EQUIPMENT. METRO IS BASIS OF DESIGN. EQUAL NSF PRODUCTS ACCEPTABLE.



6 WARMING KITCHEN FLOOR PLAN
A1.4 SCALE: 3/8" = 1'-0"

CONTRACTOR PURCHASED AND INSTALLED ITEMS

RESIDENTIAL APPLIANCE PACKAGE

PREFERRED VENDORS: TUNDRA SPECIALTIES OR BOELTER, REFER TO SPECIFICATIONS FOR CONTACT INFORMATION

ESTIMATED QUANTITY	ITEM #	DESCRIPTION
2	SEE NOTE 3	FRONT LOAD WASHER
2	SEE NOTE 4	FRONT LOAD DRYER
1	JES1460DSWW	G.E. - MICROWAVE 1.4 CU. FT. - 1100 WATTS
1	FFAR23L	SUMMIT - 1.7 CU. FT. SMALL REFRIG. FOR MEDICINE STORAGE (OR EQUAL)
SEE PLAN	FF6WB17ADA	SUMMIT - REFRIGERATOR IN CLASSROOMS A1 & A2

NOTES:

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE SPACE REQUIREMENTS OF ANY EQUIPMENT SUBSTITUTION.
- PROVIDE CUT SHEETS OF ANY EQUIPMENT SUBSTITUTION FOR ARCHITECT'S APPROVAL.
- WASHER - 4.3 CU.FT. CAPACITY STAINLESS STEEL FRONT LOAD WASHER 120V APPROX. 12A. SIZE APPROX. 27"W X 33"D X 40"HT. NO PEDESTAL. ENERGY STAR APPROVAL RECOMMENDED. COLOR TO BE SELECTED BY FRANCHISE OWNER.
- DRYER - 7.5 CU.FT. CAPACITY STAINLESS STEEL FRONT LOAD ELECTRIC DRYER, WITH 30AMP CIRCUIT BREAKER, APPROX. 5.6KW (24A) @ 240V OR 4.4 KW (22A) @ 208V. PROVIDE BRACKETS FOR STACKING OVER WASHER. SIZE APPROX. 27"W X 33"D X 40"HT. DRYER SHALL BE EXHAUSTED TO THE OUTSIDE. ENERGY STAR APPROVAL RECOMMENDED. COLOR TO BE SELECTED BY FRANCHISE OWNER.
- PROVIDE AN ALLOWANCE OF \$5,000 FOR THE WASHERS, DRYERS, AND STACKING KITS

COMMERCIAL APPLIANCE PACKAGE

QUANTITY	MANUFACTURER	ITEM #	DESCRIPTION
1	TRUE or TURBO-AIR	T-35 / TSR-35SD-N	REFRIGERATOR
1	TRUE or TURBO-AIR	T-49 / TSF-49SD-N	FREEZER
1	SCOTSMAN	CU0515GA-1	SELF-CONTAINED ICE MACHINE
1	AMANA	RC30S2	COMMERCIAL MICROWAVE/ STEAMER
1	CADCO	XAF-193	COMMERCIAL CONVECTION OVEN
1	CADCO	OST-195-C	STAND AND CORD
1	CMA DISHMACHINES	UC50e	HIGH TEMP UNDERCOUNTER DISHWASHER AND GLASSWASHER

NOTES:

- CONTRACTOR IS RESPONSIBLE TO VERIFY SPACE REQUIREMENT FOR ANY EQUIPMENT SUBSTITUTION.
- PROVIDE CUT SHEETS OF ANY EQUIPMENT SUBSTITUTION FOR ARCHITECT'S APPROVAL.
- SEE INTERIOR KITCHEN ELEVATIONS FOR SHELVING SPECIFICATIONS. METRO SHELVING IS BASE BID, BUT ALTERNATES WILL BE ACCEPTED.

NOTE: KITCHEN TABLES AND SHELVING ARE SHOWN FOR LOCATION ONLY. ACTUAL SIZES AND TYPES OF EQUIPMENT REQUIRED MAY VARY BASED ON FIELD CONDITIONS. ADDITIONAL CHANGES TO KITCHEN LAYOUT MAY OCCUR. SEE RESIDENTIAL AND COMMERCIAL APPLIANCE PACKAGE ON THIS SHEET FOR SPECIFIC MODEL NUMBERS AND ADDITIONAL INFORMATION THAT IS NOT SHOWN BELOW.

KITCHEN EQUIPMENT SCHEDULE

MARK	SPECIFICATION
K01	WIRE SHELVING, CENTAUR MODEL NO. C2442K OR EQUAL (10 TOTAL) 42"W X 24"D, GREEN EPOXY, NSF STATIONARY POST - CENTAUR C86K (8 TOTAL) 86-5/8"H, WITH LEVELING BOLT & CAP, GREEN EPOXY
K02	WIRE SHELVING, CENTAUR MODEL NO. C2448K OR EQUAL (5 TOTAL) 48"W X 24"D, GREEN EPOXY, NSF STATIONARY POST - CENTAUR C86K (4 TOTAL) 86-5/8"H, WITH LEVELING BOLT & CAP, GREEN EPOXY
K03	WIRE SHELVING, CENTAUR MODEL NO. C2460K OR EQUAL (10 TOTAL) 60"W X 24"D, GREEN EPOXY, NSF STATIONARY POST - CENTAUR C86K (8 TOTAL) 86-5/8"H, WITH LEVELING BOLT & CAP, GREEN EPOXY
K04	WORK TABLE, STAINLESS STEEL TOP ADVANCE TABCO MODEL NO. FMS-308 WORK TABLE, 96"W X 30"D, 16 GAUGE 304 STAINLESS STEEL TOP WITH 1-1/2" REAR UPTURN, ADJUSTABLE 18 GAUGE STAINLESS STEEL UNDERSHELF, STAINLESS STEEL LEGS & ADJUSTABLE BULLET FEET, NSF (2) SS - 2020 DELUXE DRAWERS, 20" x 20" x 5" DEEP DRAWER PAN INSERT, STAINLESSSTEEL, WITH DRAWER SLIDES (1 ON EACH SIDE OF SINK). WELD IN SINK TA-11C SINK WELDED INTO TABLE TOP, 20"W x 20"D x 8" DEEP BOWL, INCLUDES FAUCET (MUST SPECIFY SINK LOCATION) K-316-LUHA WRIST HANDLES ONLY, FOR SPLASH OR DESK MOUNT HAND SINK FAUCET (1 PAIR HOT & COLD 4" LONG BLADES), FITS FAUCETS SUPPLIED WITH HOT & COLD COLOR RINGS THAT DO NOT HAVE EXPOSED SCREW HEAD K-5 DRAIN, TWIST OPERATED, 2" NPT & 1-1/2" IPS OUTLET CONNECTIONS K-4 SUPPORT BRACKET, FOR LEVER WASTE DRAIN HANDLE, (1) SUPPORT REQUIRED FOR EACH LEVER DRAIN
K05	90" x 30" STAINLESS STEEL 3 COMP SINK. (SEE PLUMBING FOR SPECS)
K06	WORK TABLE, 60"W X 24"D 16 GAUGE 304 STAINLESSSTEEL TOP WITH 5"H BACKSPLASH, 18 GAUGE STAINLESS STEEL ADJUSTABLE UNDERSHELF, STAINLESS STEEL LEGS & ADJUSTABLE BULLET FEET, NSF SS - 2020 DELUXE DRAWER, 20"W X20"D X 5" DEEP DRAWER PAN INSERT, STAILESS STEEL, WITH DRAWER SLIDES (SEE ELEVATIONS FOR DRAWER LOCATIONS)
K07	WARMING KITCHEN REFRIGERATOR
K08	WARMING KITCHEN FREEZER
K09	COMMERCIAL MICROWAVE
K10	CONVECTION OVEN
K11	COMMERCIAL CONVECTION OVEN STAND
K12	ICE MACHINE
K13	GREASE TRAP SEE PLUMBING

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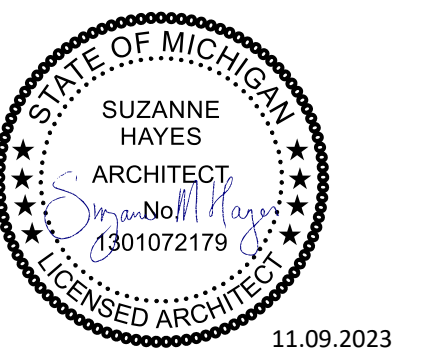
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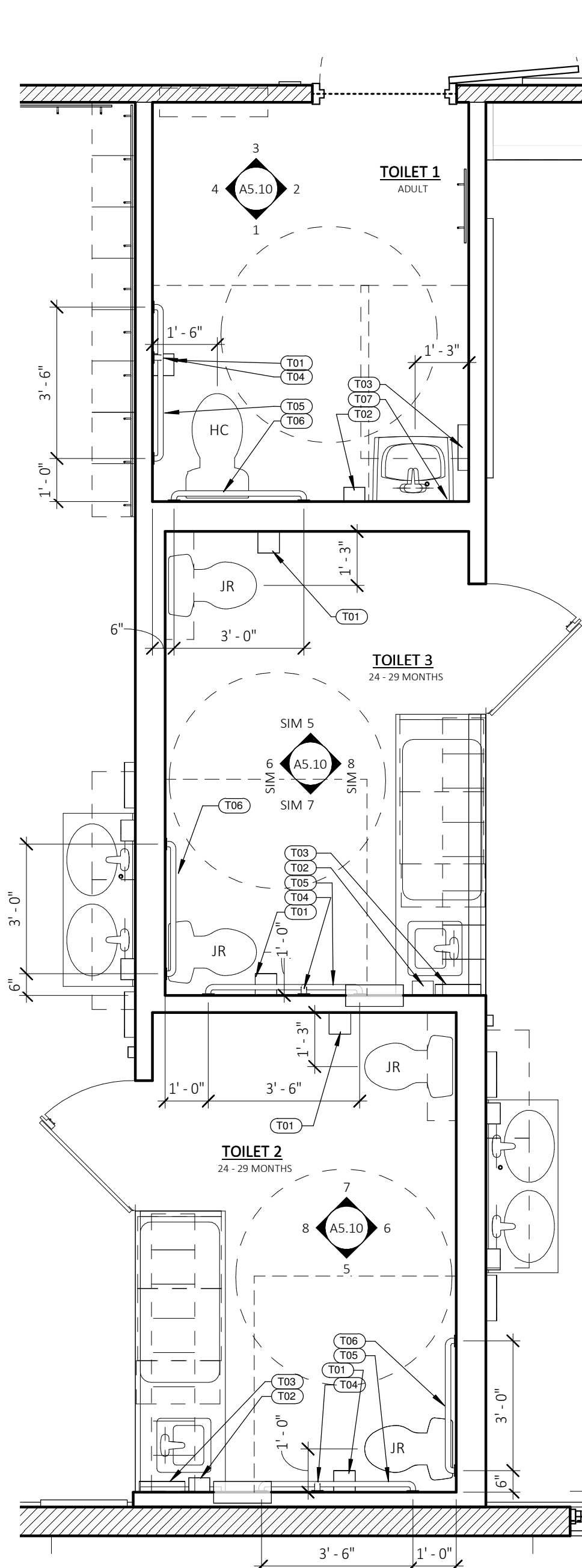


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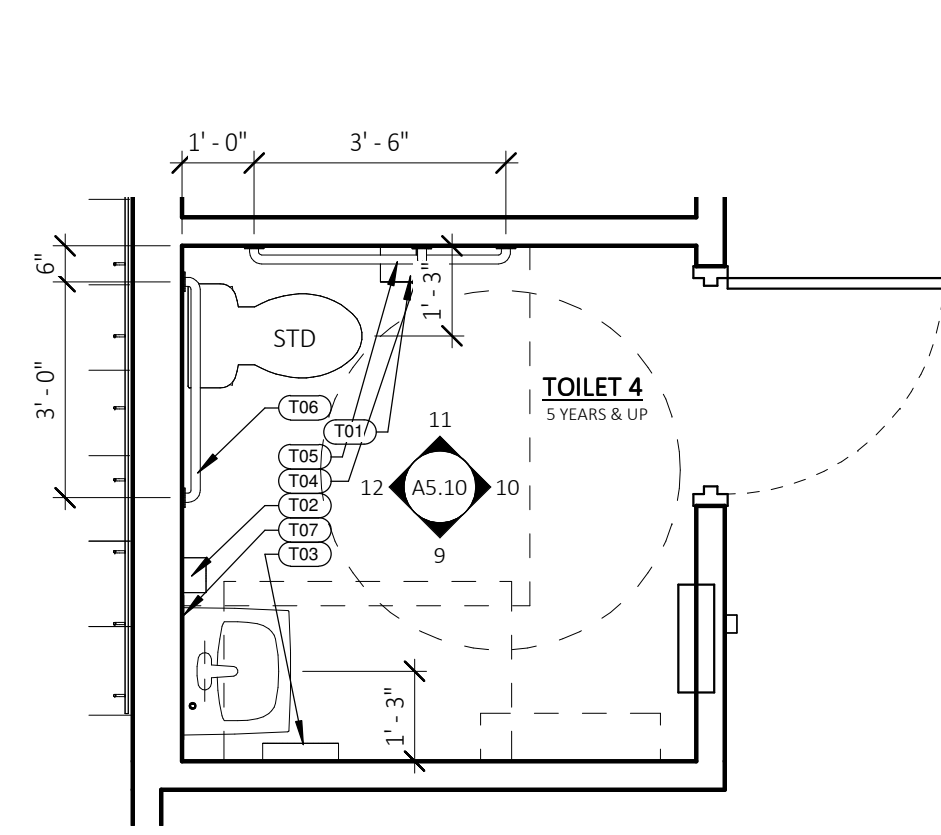
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WARMING
KITCHEN PLAN &
ELEVATIONS

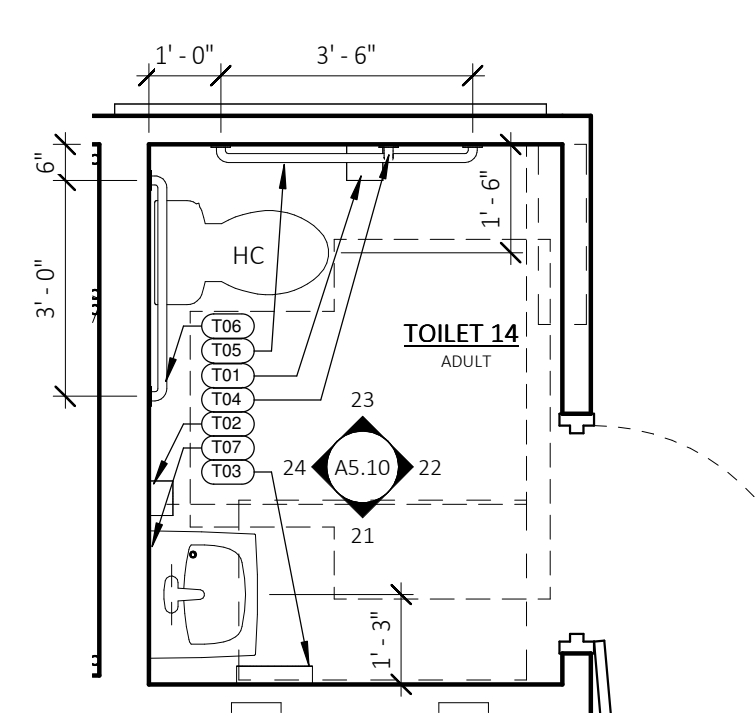
A1.4



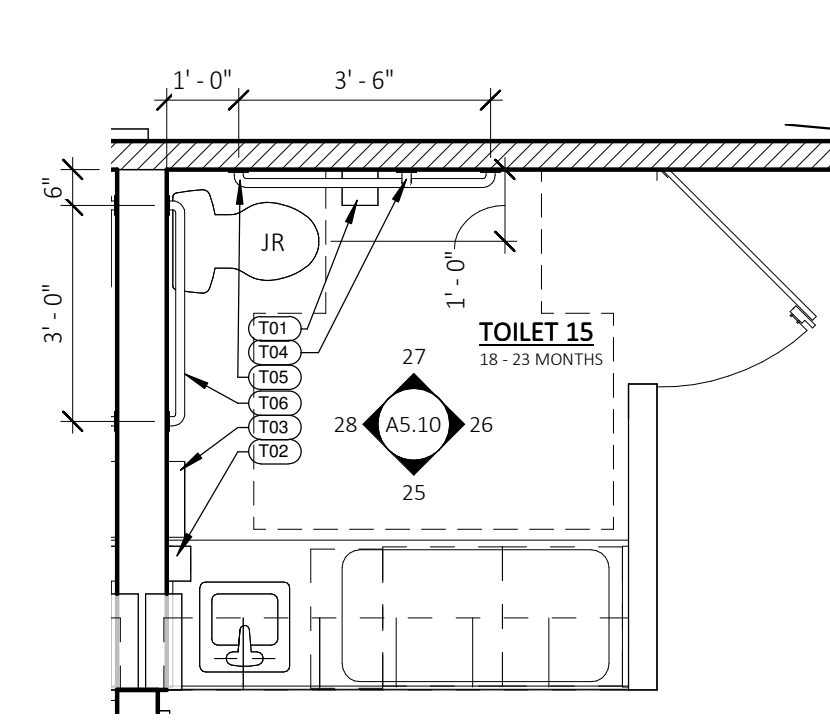
1 TOILET 1, 2, 3
A1.5 SCALE: 3/8" = 1'-0"



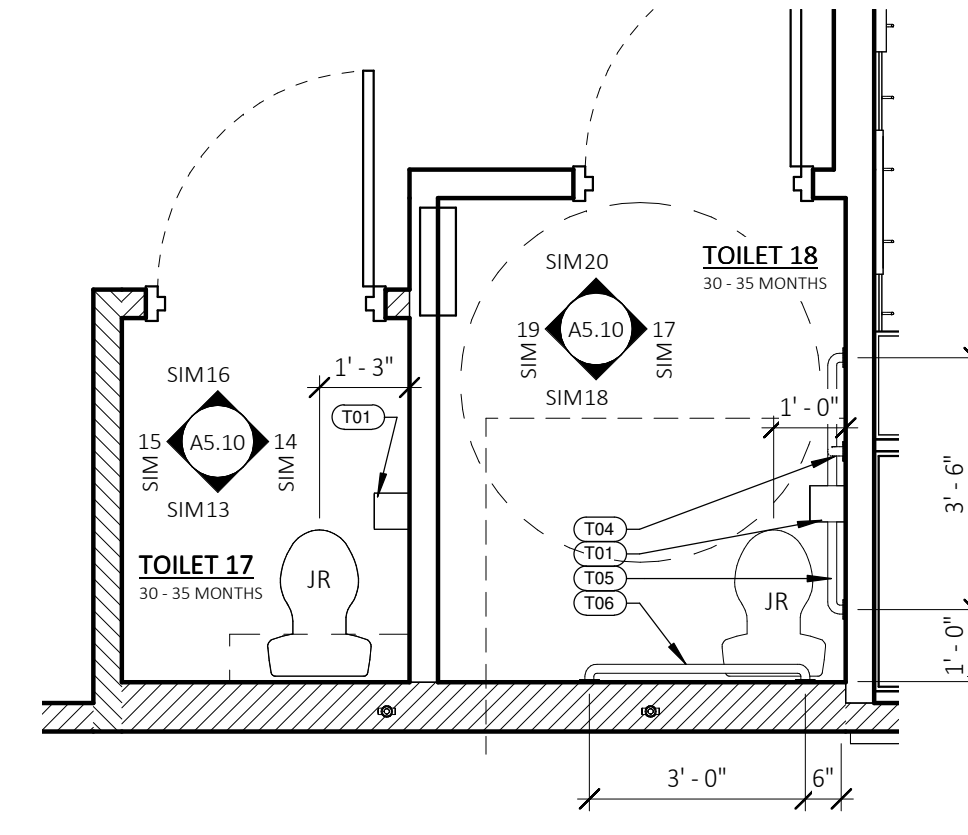
2 TOILET 4
A1.5 SCALE: 3/8" = 1'-0" SIM. TLT 5 (5 YR+)



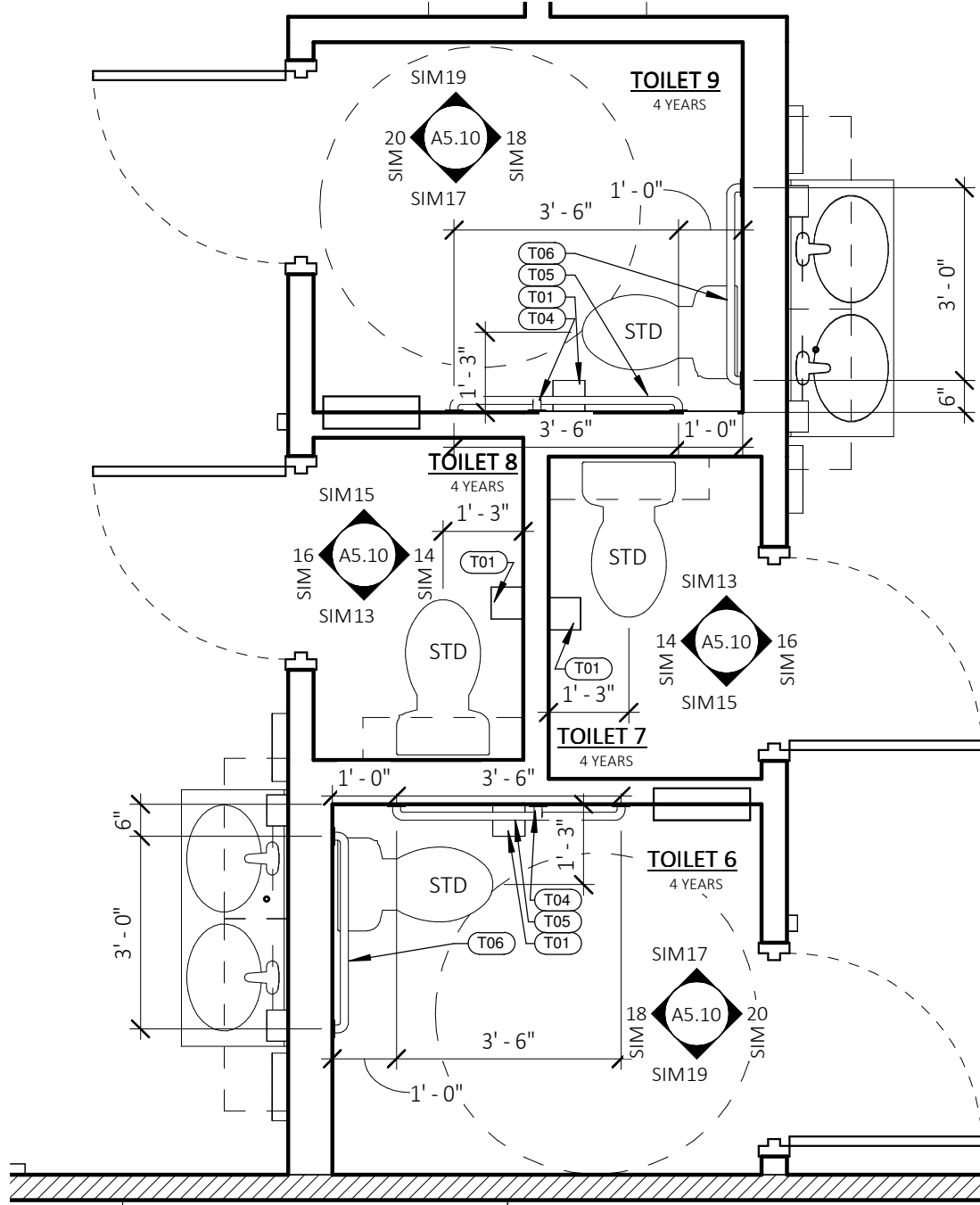
3 TOILET 14
A1.5 SCALE: 3/8" = 1'-0"



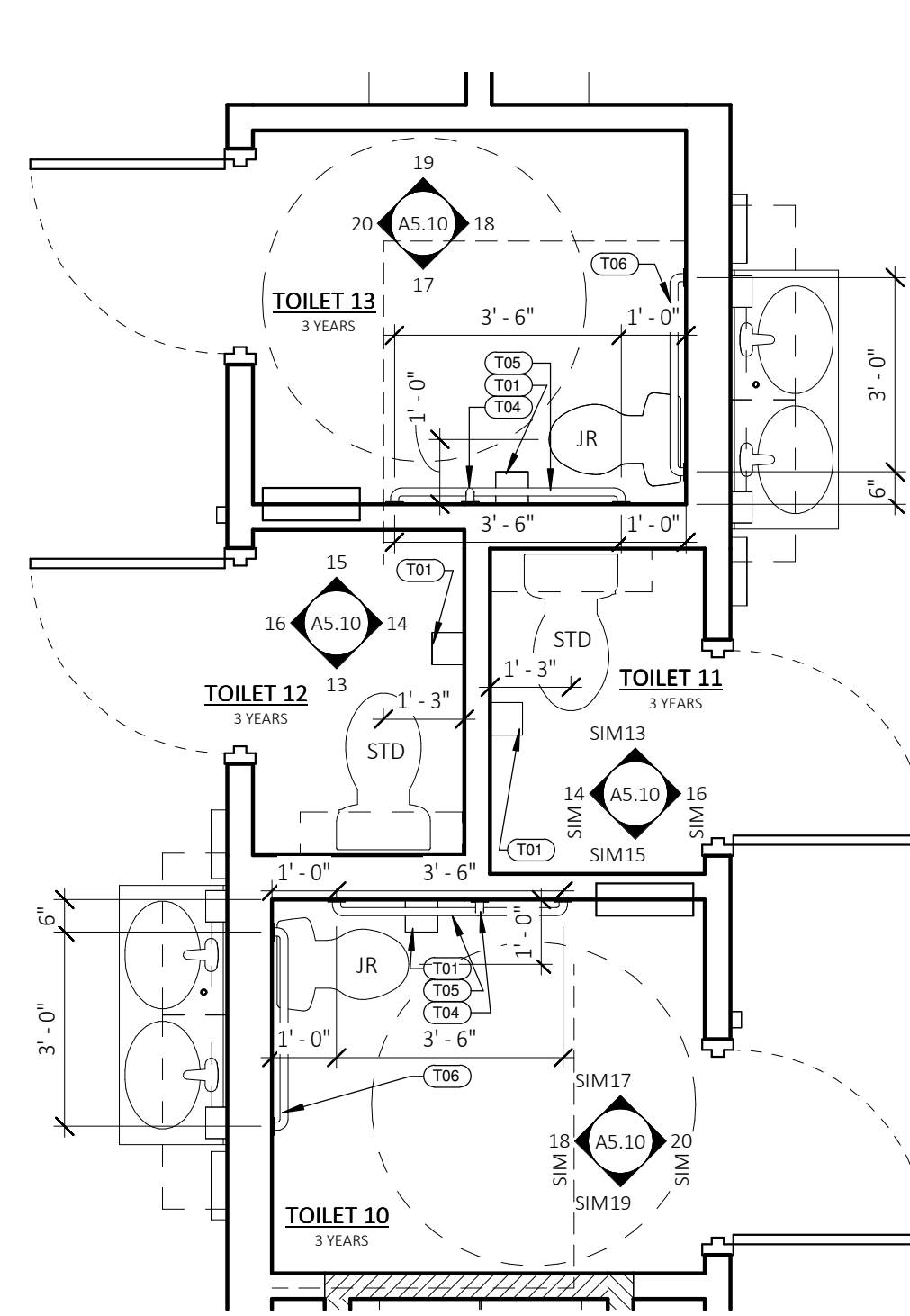
4 TOILET 15
A1.5 SCALE: 3/8" = 1'-0" SIM. TLT 16 (12-18 MONTHS)



5 TOILET 17, 18
A1.5 SCALE: 3/8" = 1'-0"



6 TOILET 6, 7, 8, 9
A1.5 SCALE: 3/8" = 1'-0"



7 TLT 10, 11, 12, 13
A1.5 SCALE: 3/8" = 1'-0"

TOILET ROOM GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
- HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- RECESSED CABINETS SHALL NOT PROTRUDE MORE THAN 4" FROM FACE OF DRYWALL

ACCESSIBILITY NOTES

WATER CLOSETS

- THE SEAT HEIGHT OF THE WATER CLOSET SHALL BE 17" TO 19" FOR ADULTS.
- FLUSH CONTROLS SHALL BE MOUNTED FOR USE ON THE OPEN SIDE OF THE TOILET
- GRAB BARS SHALL BE MOUNTED AS SHOWN IN PLAN AND ELEVATIONS.

LAVATORIES

- PROVIDE A MIN. CLEARANCE OF 27" A.F.F. TO THE BOTTOM OF THE APRON. THE RIM SHALL BE NO HIGHER THAN 34" MAX. SINK BOWLS SHALL HAVE A MAXIMUM DEPTH OF 6.5"
- HOT WATER AND DRAIN PIPES UNDER THE LAV SHALL BE INSULATED AND PROTECTED.
- ALL FAUCETS SHALL BE LEVER TYPE.
- MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTIVE SURFACE NO HIGHER THAN 40", (34" MAX. AT CHILDRENS).

GRAB BARS

- COMPLY FOR ALLOWABLE STRESSES IN BENDING, SHEAR AND TENSION SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 LBS. IS APPLIED AT ANY POINT ON THE GRAB BAR.

NOTE: HANDRAILS SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE OF A NOMINAL DIAMETER OR WIDTH OF 1 1/4" TO 1 1/2".

TOILET PAPER DISPENSERS

- INSTALL AS INDICATED ON ELEVATIONS. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW, SHALL NOT BE USED.
- INSTALL TOILET PAPER DISPENSER 7"-9" FROM FRONT EDGE OF TOILET TO CENTERLINE OF DISPENSER.

CHILDREN'S TOILET ROOM DOORS

- MOUNT PULL AT 34" A.F.F. TO THE BOTTOM OF PULL.

NOTE TO GENERAL CONTRACTOR:

A COPY OF THIS SHEET SHALL BE FURNISHED TO THE PLUMBING CONTRACTOR.

TOILET ACCESSORIES		OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
Type Mark	Description				
T01	TOILET TISSUE DISPENSER				
T02	NEW SCHOOL ITEM - SOAP DISPENSER - WHITE OR FAUX STAINLESS				
T03	NEW SCHOOL ITEM - PAPER TOWEL DISPENSER - WHITE OR FAUX STAINLESS				
T04	24" GRAB BAR. SEE ELEVATION.				
T05	42" GRAB BAR. SEE ELEVATION.				
T06	36" GRAB BAR. SEE ELEVATION.				
T07	24" X 36" RESTROOM MIRROR				

MOUNTING HEIGHTS

CHILDREN'S DIMENSIONS (1.5" Ø GRAB BARS ASSUMED)

TOILET TYPE	SIDE BAR HEIGHT	(CONFIRM) TOILET TANK HEIGHT	REAR BAR HEIGHT	DISPENSER OUTLET HEIGHT
JUNIOR (JR)	18" - 20" TOP	26"	27.5" BOT	14"
STANDARD (STD)	20" - 25" TOP	29"	30.5" BOT	14" - 17"
ADA (HC)	33" - 36" TOP	30.25"	33" - 36" TOP	15" - 48" TOP

TOILET SIZES

JUNIOR SIZE TOILETS: TOILET ROOMS 2, 3, 10, 13, 15, 16, 17, 18

STANDARD SIZE TOILETS: TOILET ROOMS 4, 5, 6, 7, 8, 9, 11, 12

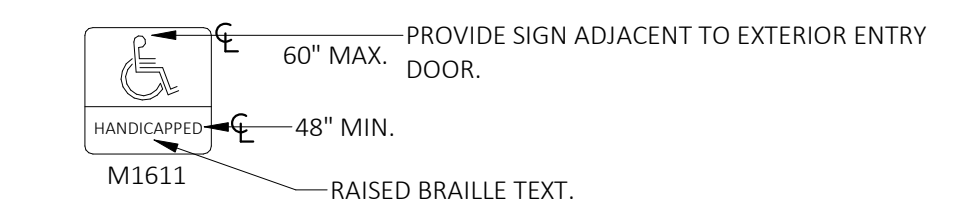
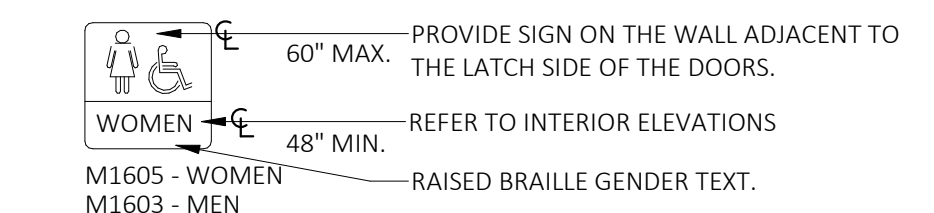
ADA SIZE TOILETS: TOILET ROOMS 1, 14

NOTE:

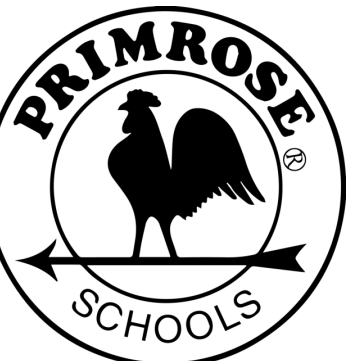
G.C. SHALL CONFIRM EXACT QUANTITY & LOCATION OF SOAP AND PAPER TOWEL DISPENSERS WITH FRANCHISE OWNER PRIOR TO ORDERING.

ACCESSIBILITY SIGNAGE DETAILS

- THE CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. THE SIGNAGE SHALL CONSIST OF BLACK LETTERS AND CHARACTERS ON A WHITE BACKGROUND. THE SIGN SHALL HAVE A NON-GLARE FINISH.
- LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPER CASE "SANS SERIF OR SIMPLE SERIF" TYPE, ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NO HIGHER THAN 2".
- THE SIGNAGE PACKET PURCHASED THROUGH AN APPROVED VENDOR SHALL COMPLY WITH THE SIGNAGE SECTION OF THE LOCAL ACCESSIBILITY CODE.
- SIGNAGE CONTAINING TACTILE CHARACTERS SHOULD BE MOUNTED AT THE STRIKE SIDE OF THE DOOR & SHOULD BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. BY 18" MIN., CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION & 45 DEGREE OPEN POSITION.
- THE PICTOGRAM FIELD MUST HAVE A HEIGHT OF 6" MIN. CHARACTER & BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

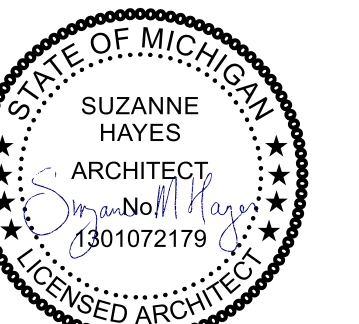


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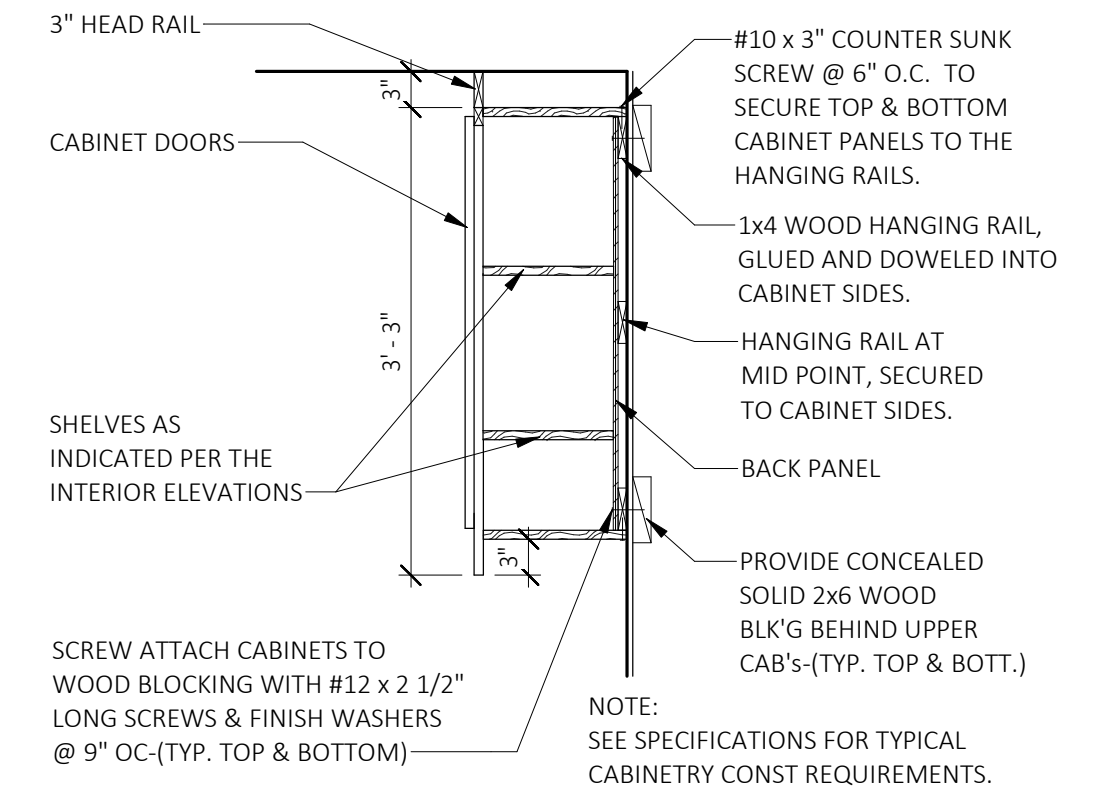
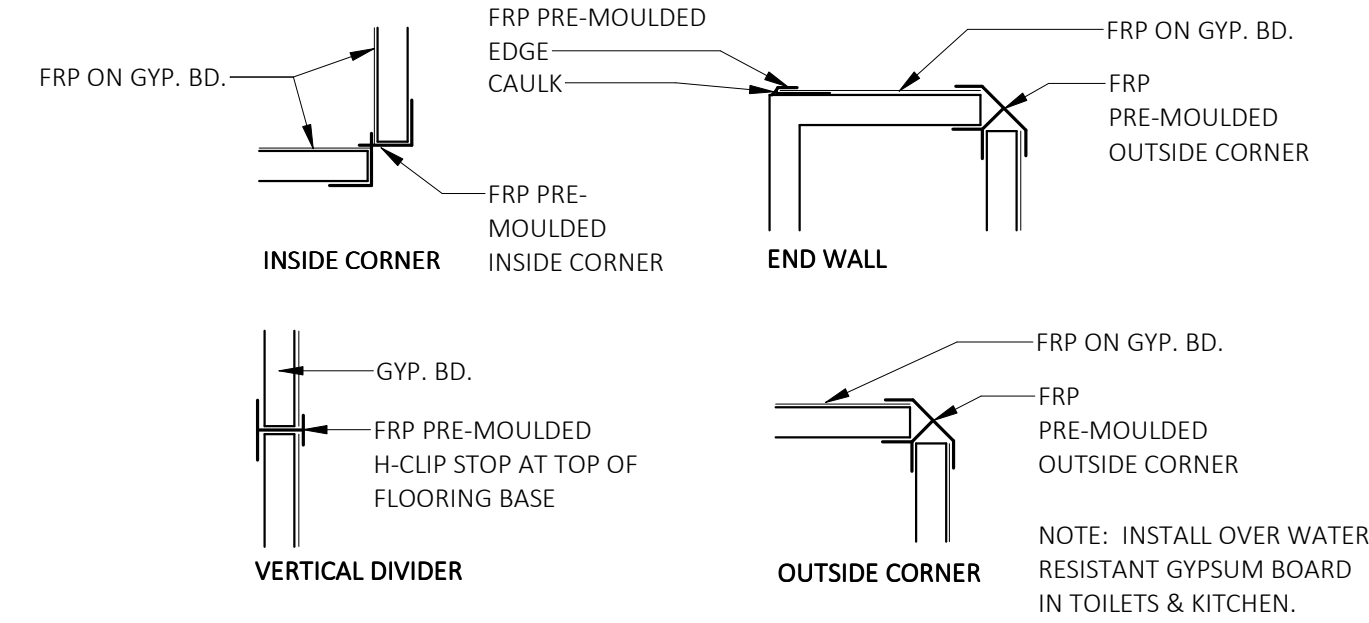
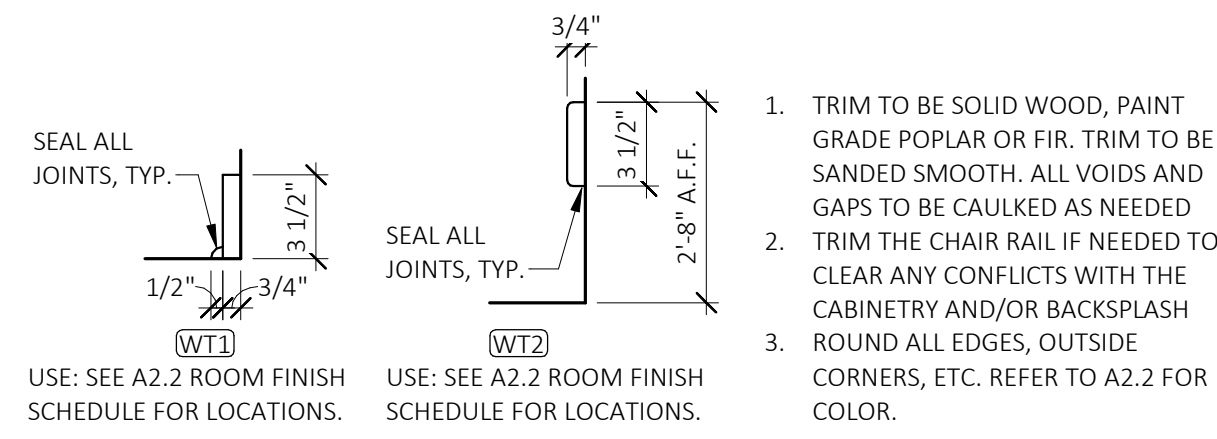


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

Drawn/Checked DSC / ALA
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Bid Date --/--
Permit Date 7/10/23
For Construction --/--

ENLARGED TOILET ROOM PLANS

A1.5



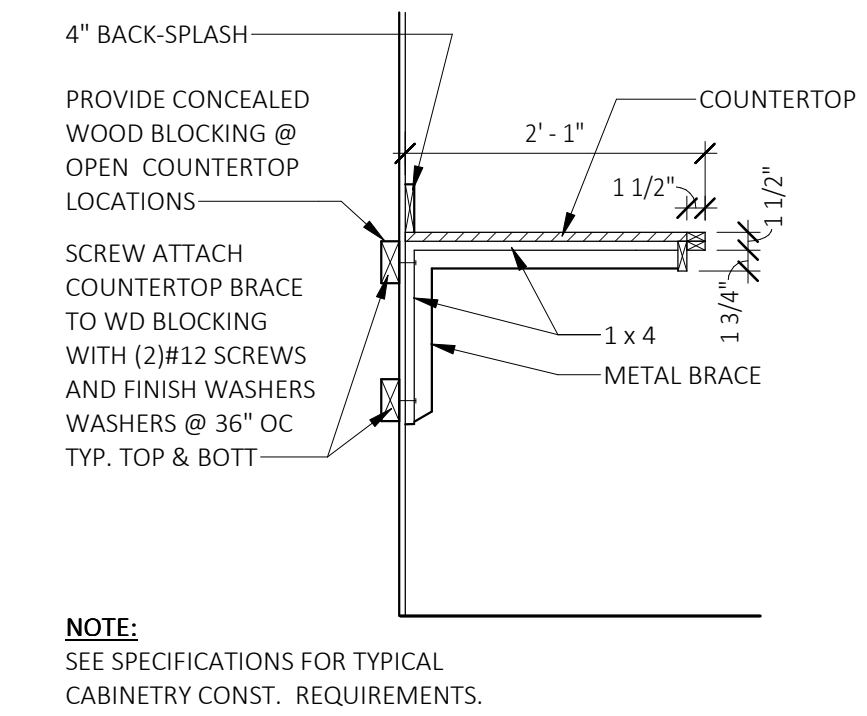
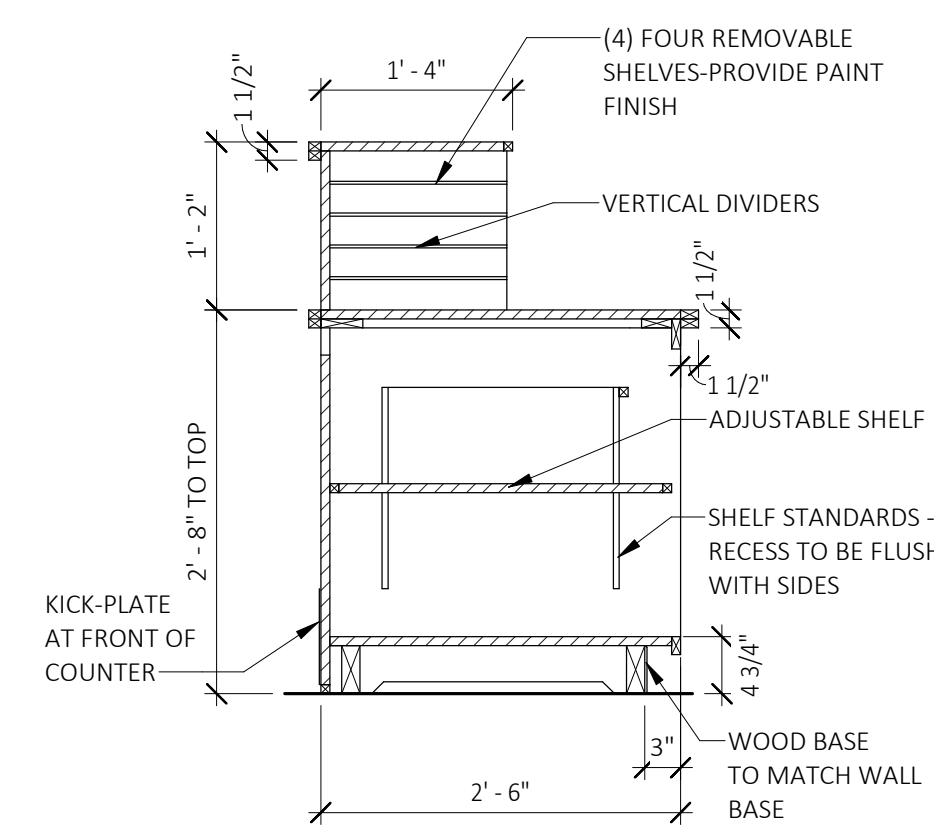
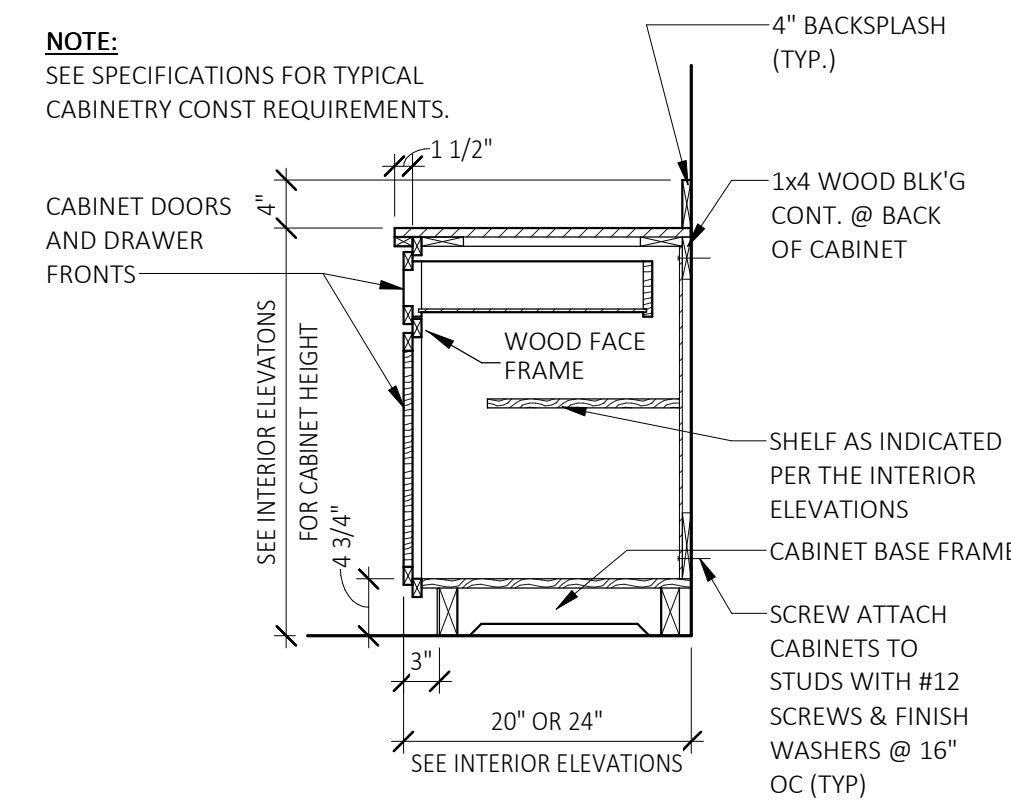
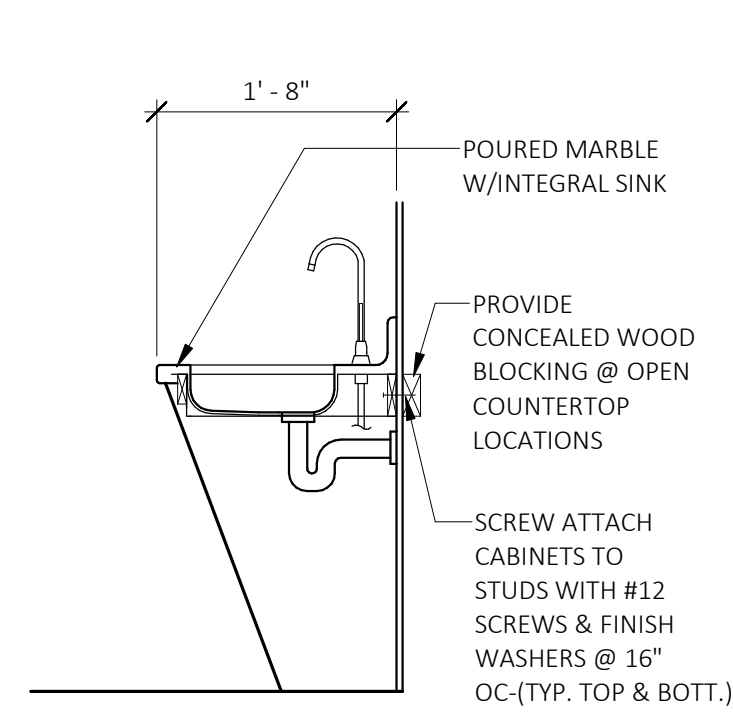
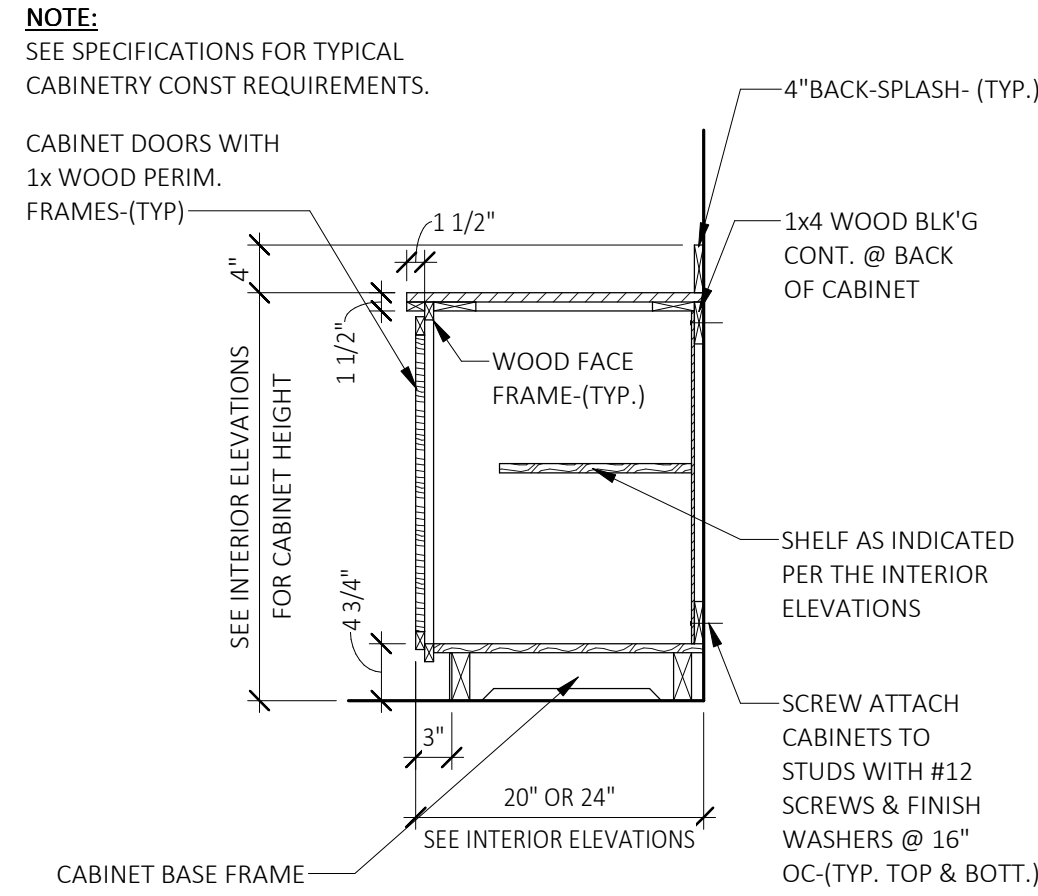
1 NOT USED
A2.3 SCALE: 3/8" = 1'-0"

2 TYPICAL WOOD TRIM PROFILES
A2.3 SCALE: 1 1/2" = 1'-0"

3 NOT USED
A2.3 SCALE: 3/8" = 1'-0"

4 FRP
A2.3 SCALE: 3" = 1'-0"

5 TYP - UPPER CABINET
A2.3 SCALE: 3/4" = 1'-0"



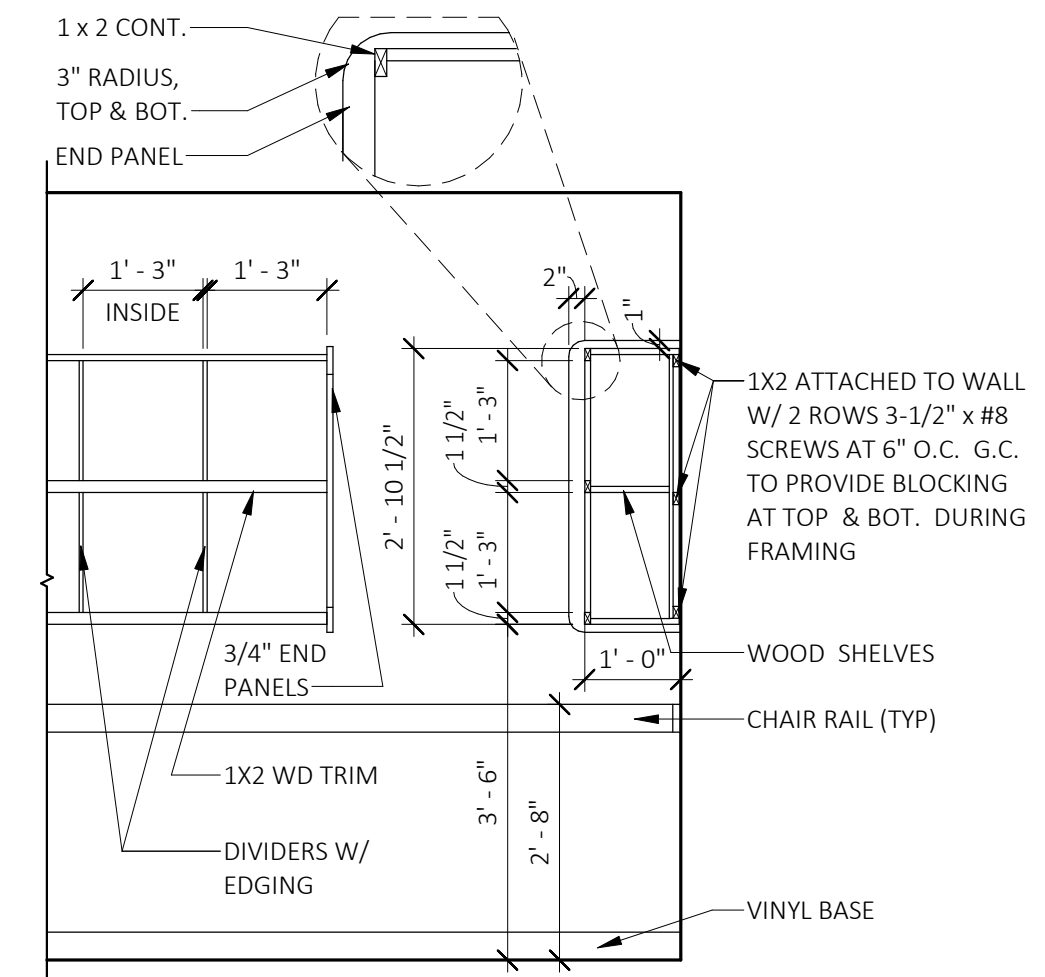
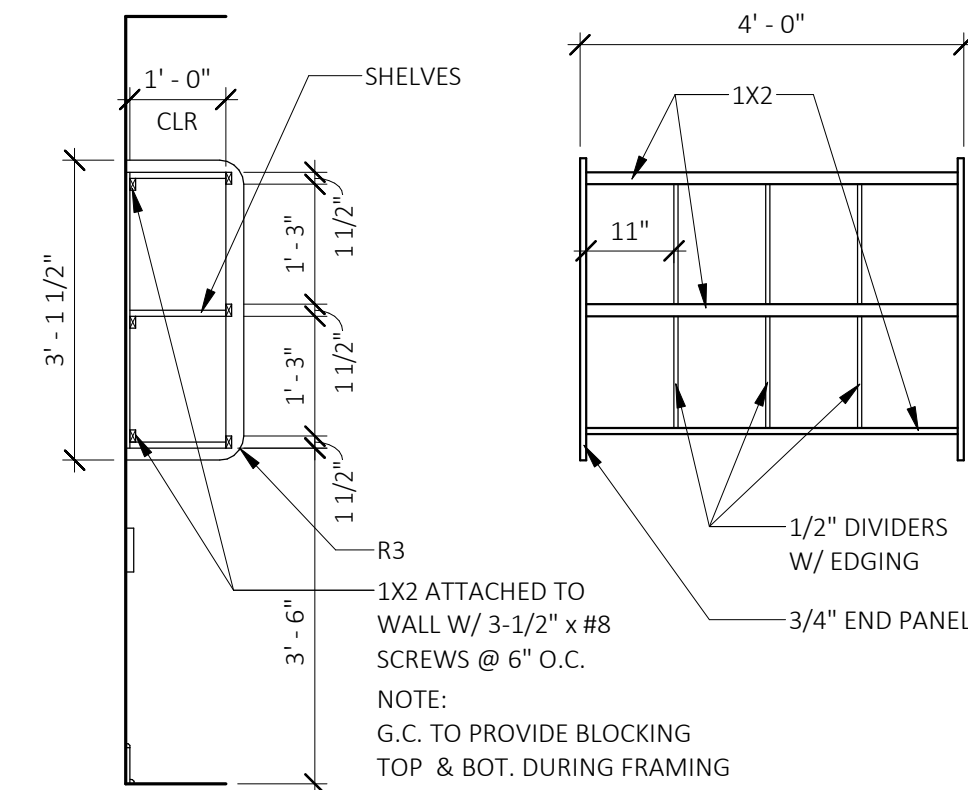
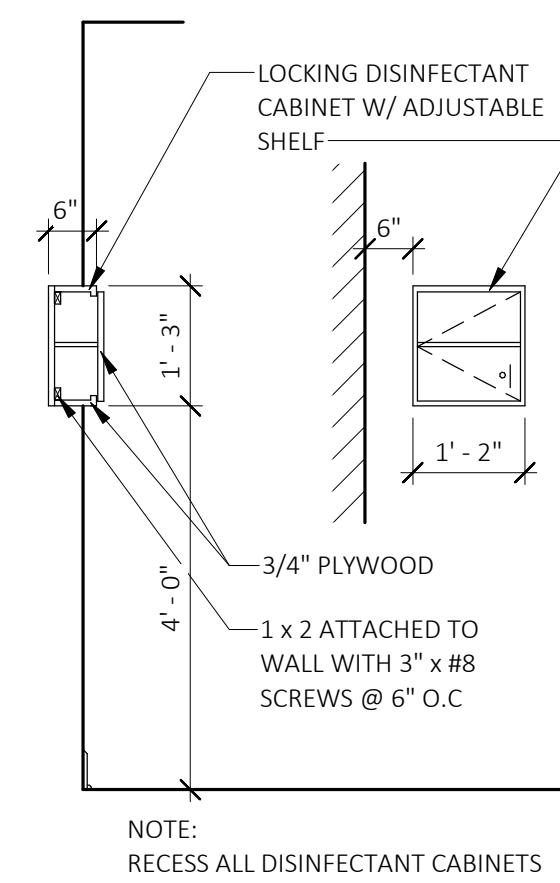
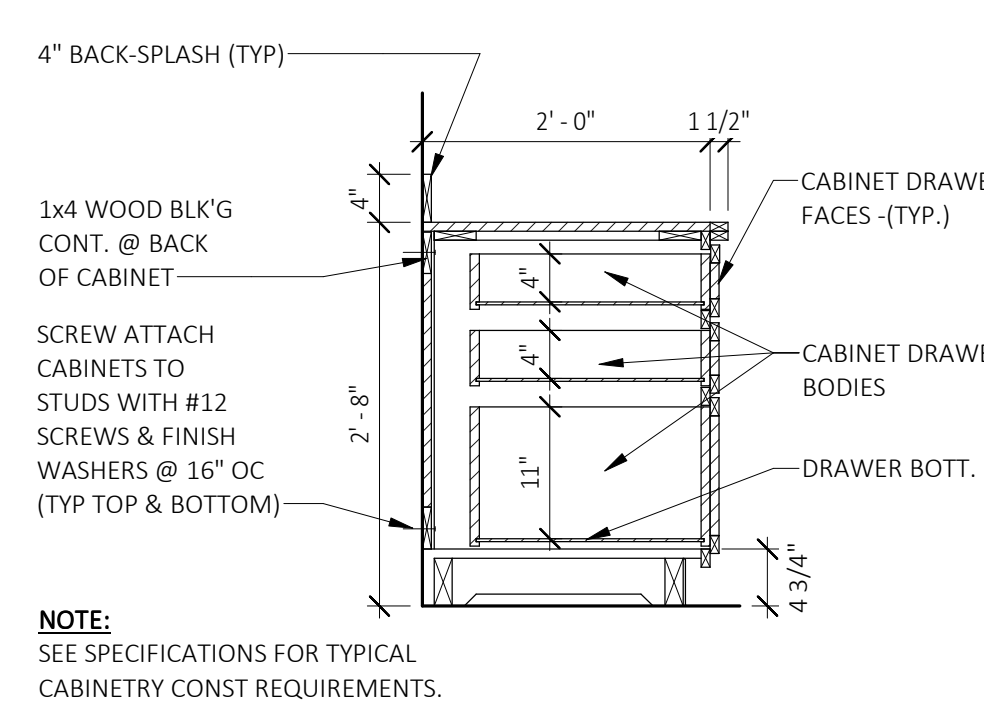
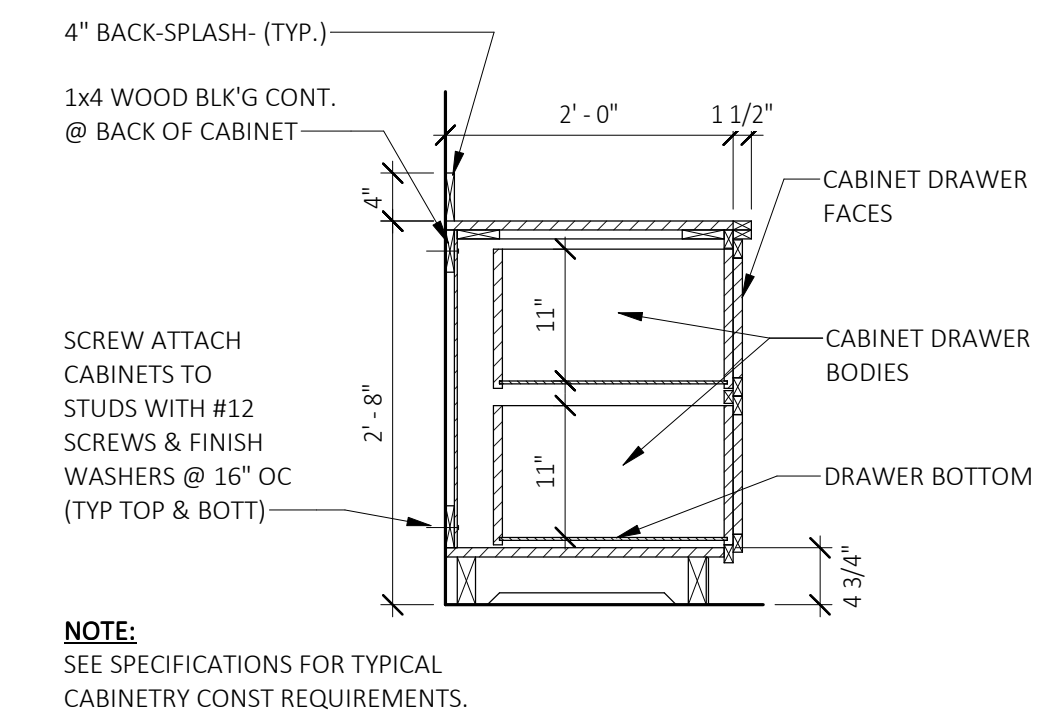
6 BASE CABINET (1 DOOR)
A2.3 SCALE: 3/4" = 1'-0"

7 TYP - SINK CABINET
A2.3 SCALE: 3/4" = 1'-0"

8 BASE CAB (1 DR/1 DWR)
A2.3 SCALE: 3/4" = 1'-0"

9 RECEPTION COUNTER
A2.3 SCALE: 3/4" = 1'-0"

10 TYP - COUNTER
A2.3 SCALE: 3/4" = 1'-0"



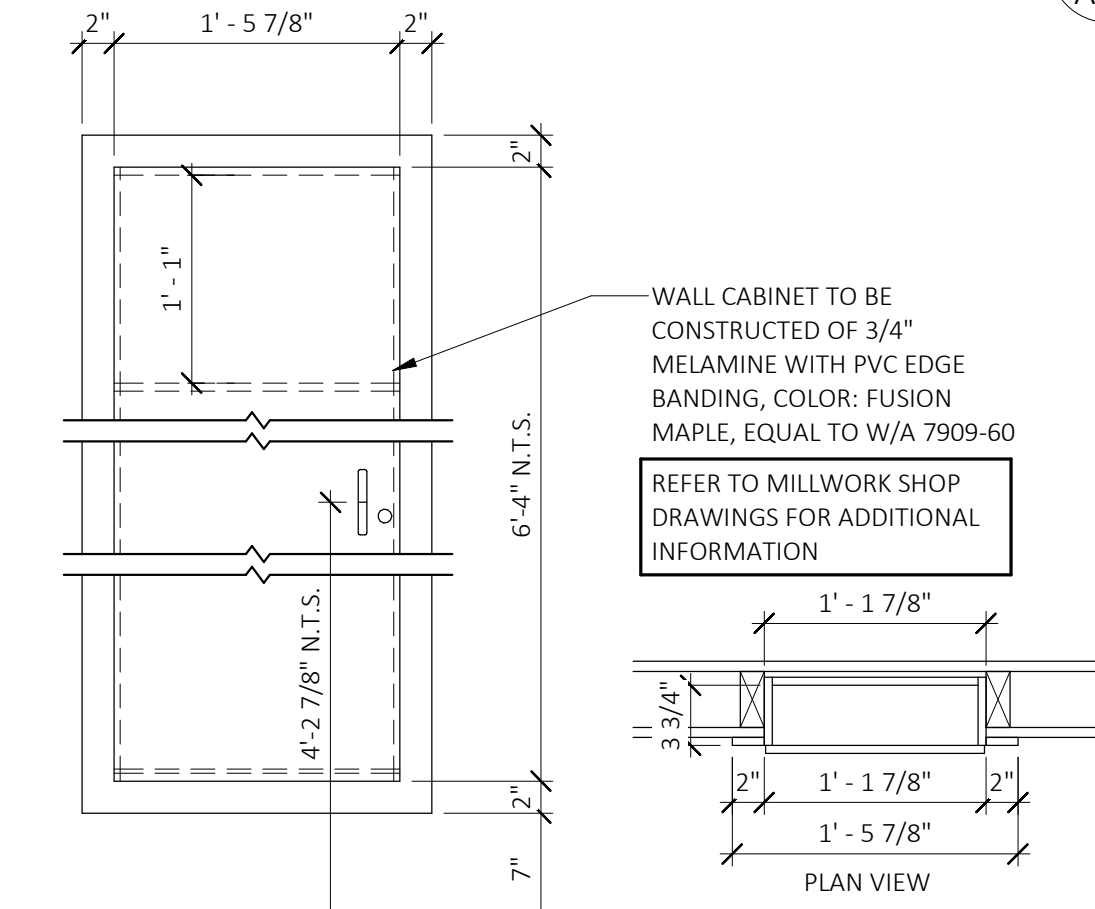
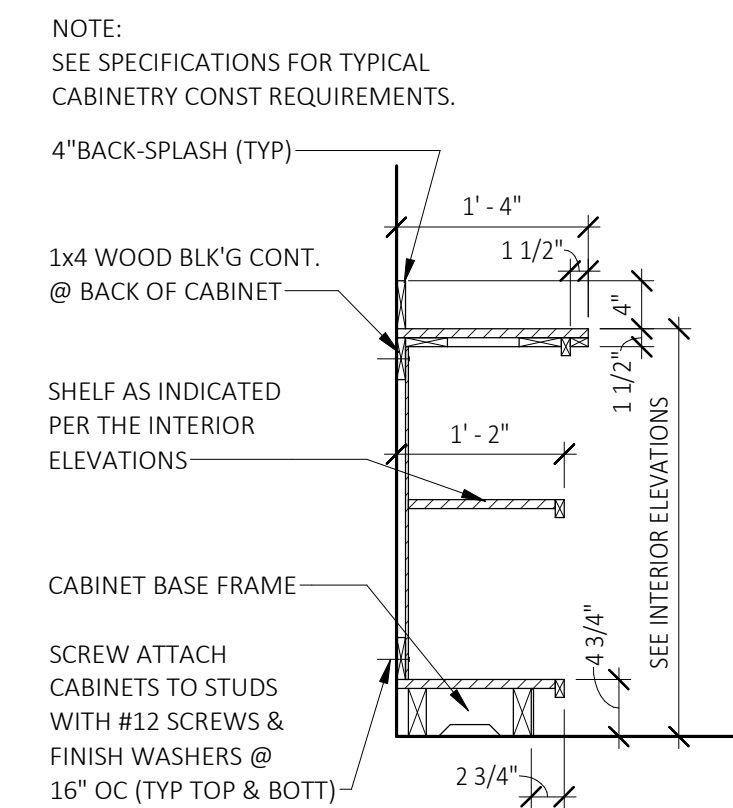
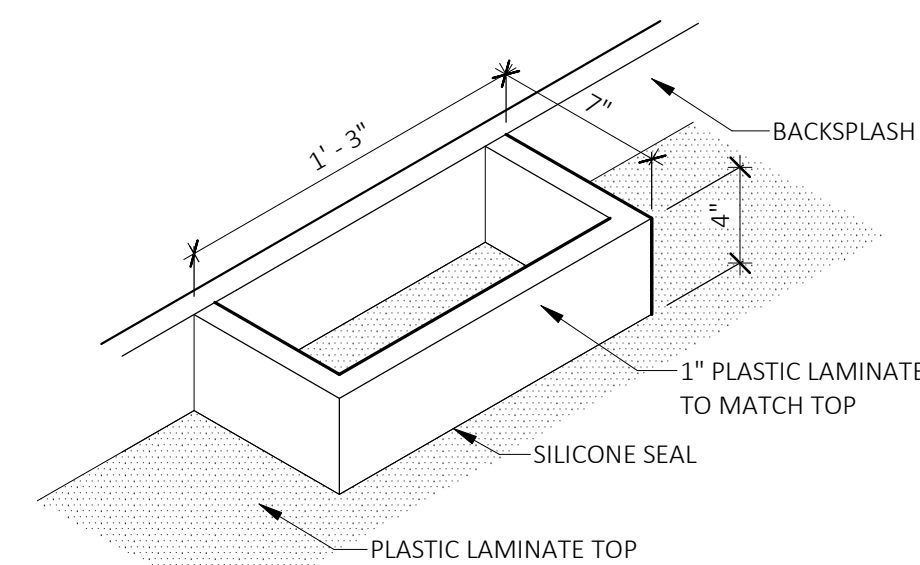
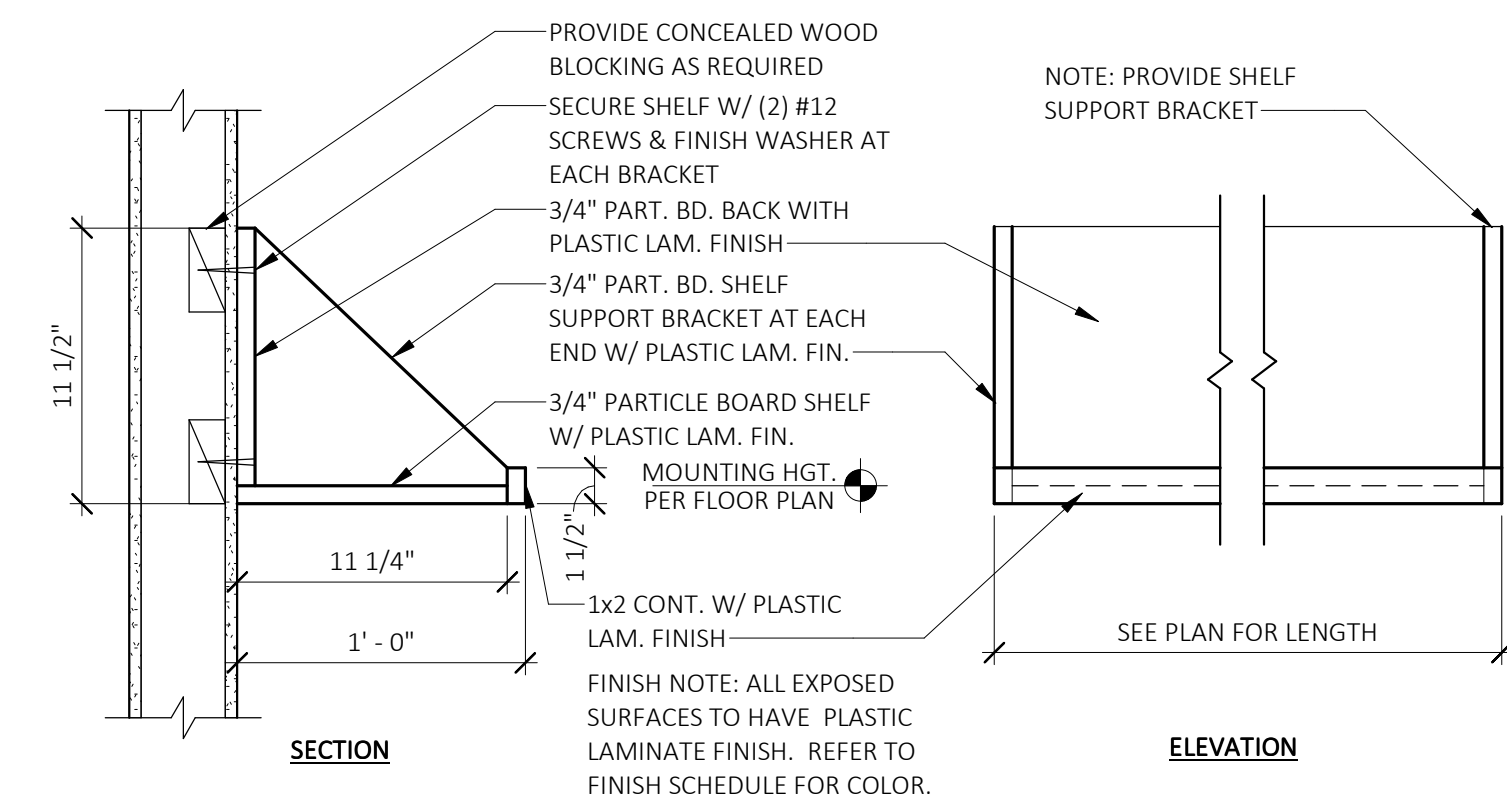
11 BASE CAB (2 DRAWERS)
A2.3 SCALE: 3/4" = 1'-0"

12 BASE CAB (3 DRAWERS)
A2.3 SCALE: 3/4" = 1'-0"

13 DISINFECTANT CAB
A2.3 SCALE: 1/2" = 1'-0"

14 INFANT CUBBIE
A2.3 SCALE: 1/2" = 1'-0"

15 CUBBIE
A2.3 SCALE: 1/2" = 1'-0"



16 WOOD SHELF
A2.3 SCALE: 1 1/2" = 1'-0"

17 BOTTLE WARMER HOLDER
A2.3 SCALE: 1 1/2" = 1'-0"

18 PUT DOWN COUNTER
A2.3 SCALE: 3/4" = 1'-0"

19 BROOM CLOSET
A2.3 SCALE: 1" = 1'-0"

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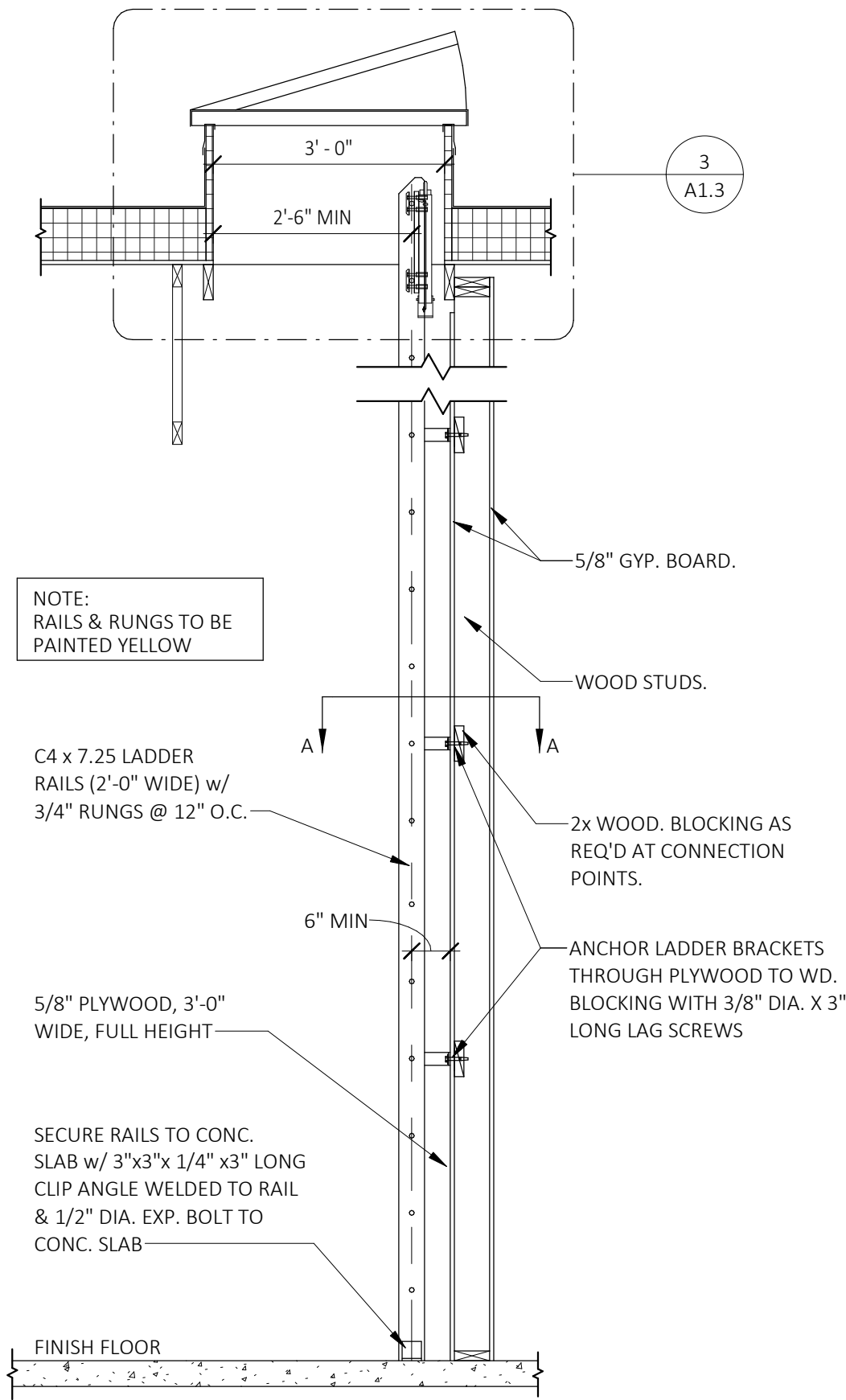
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Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

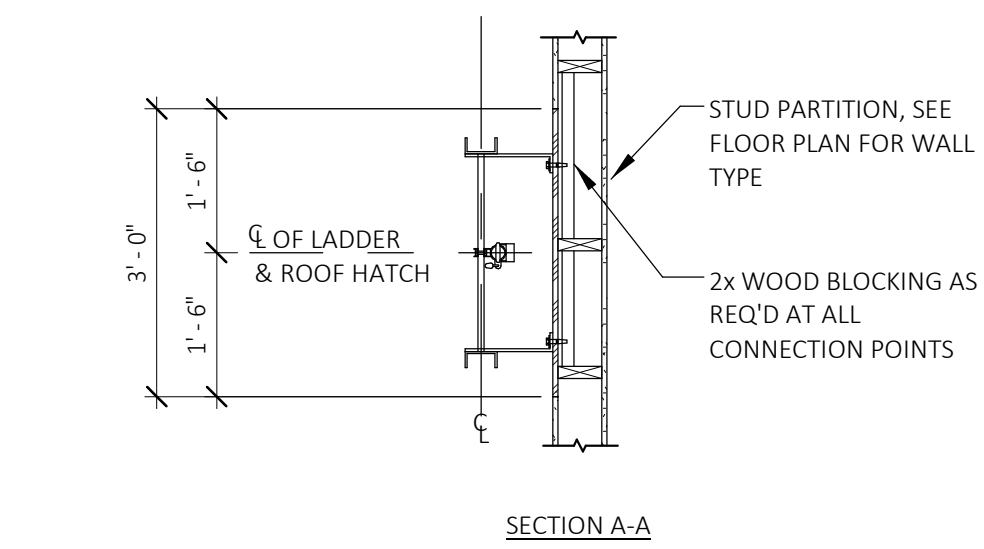
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Project Number	2202640
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Permit Date	7/10/23
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INTERIOR DETAILS

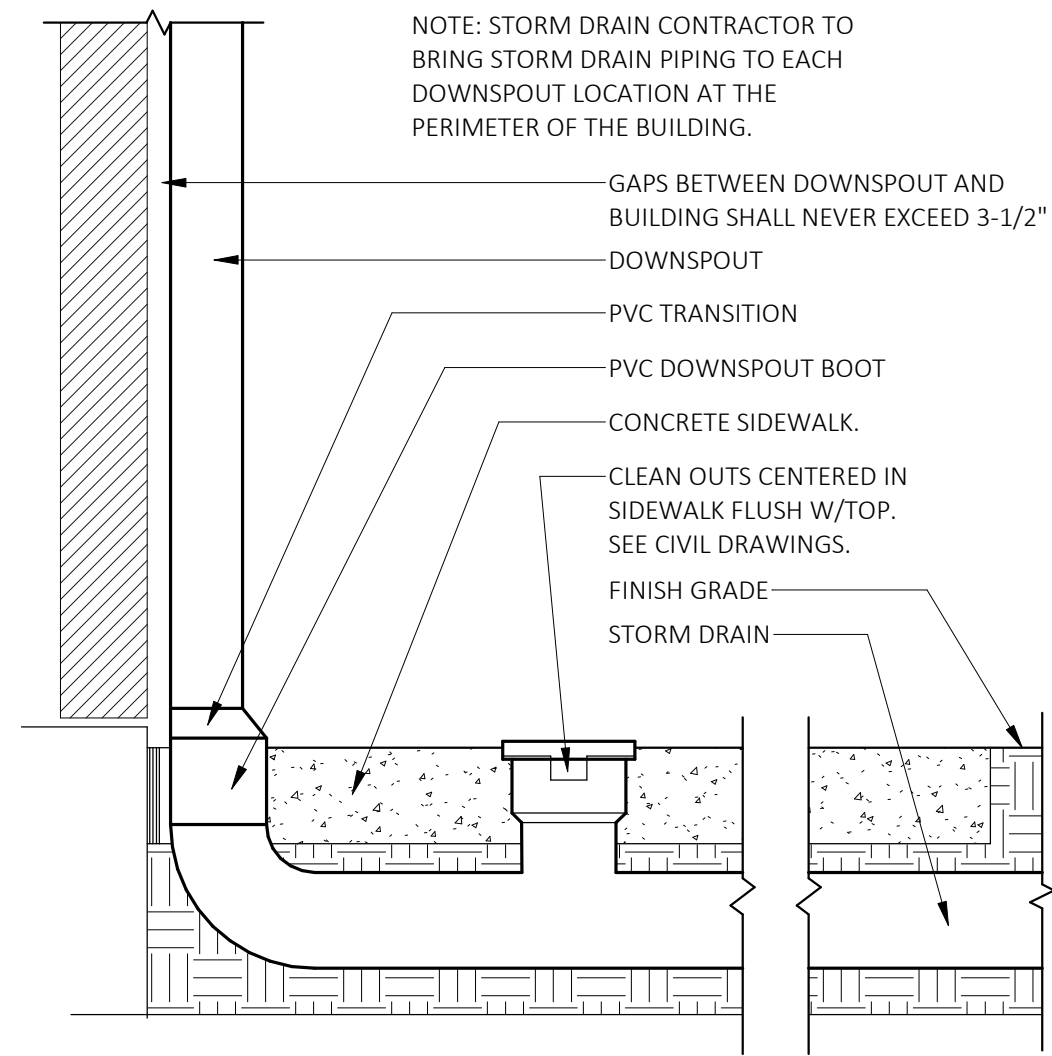
A2.3



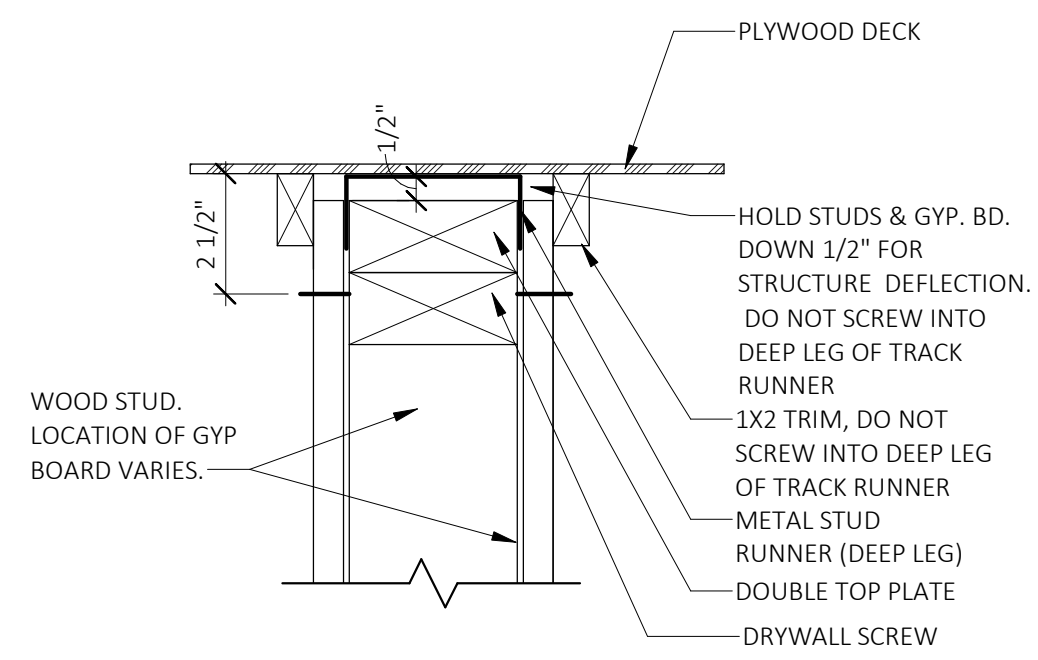
NOTE: RAILS & RUNGS TO BE PAINTED YELLOW



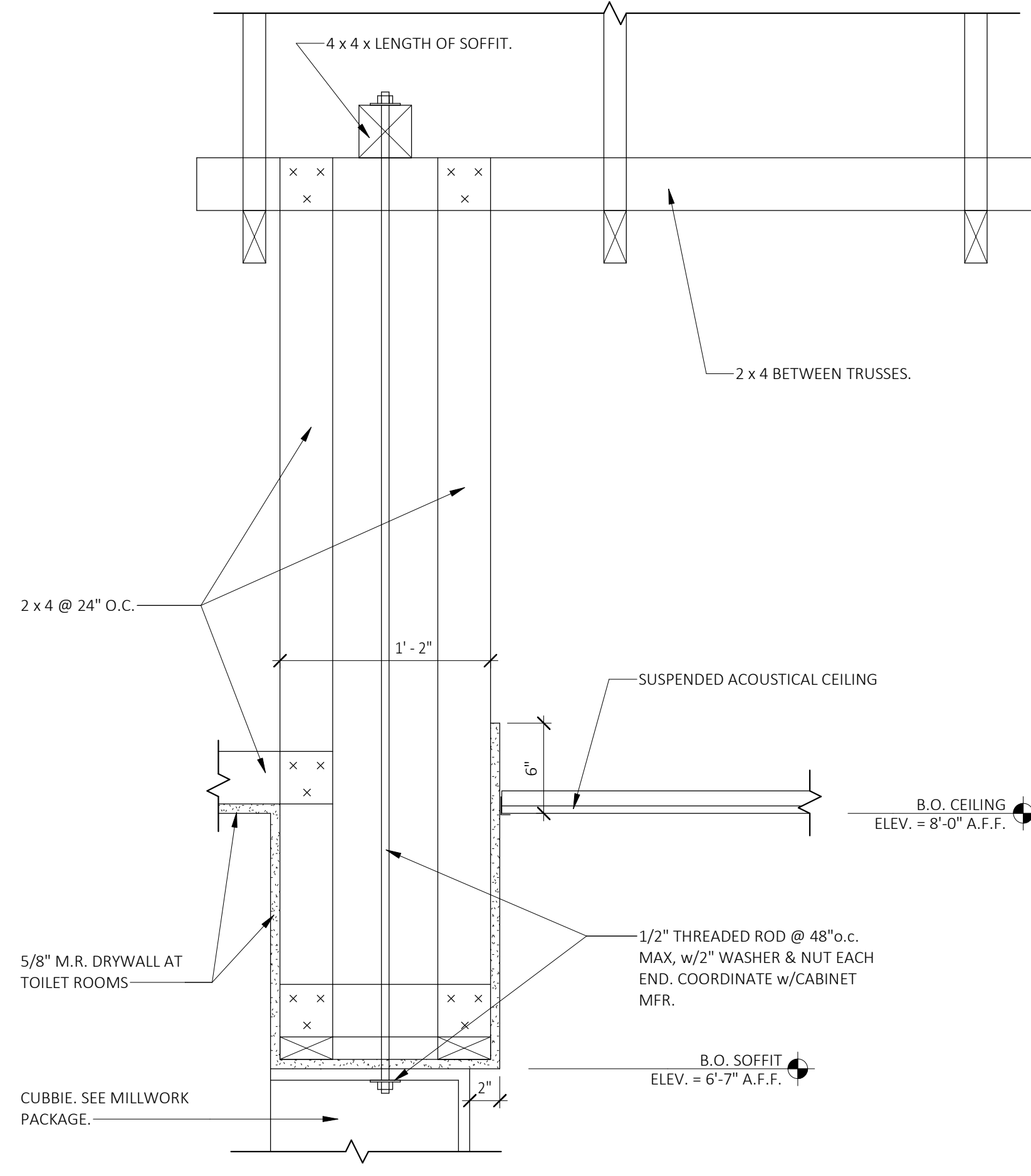
1 LADDER
A2.4 SCALE: 1/2" = 1'-0"



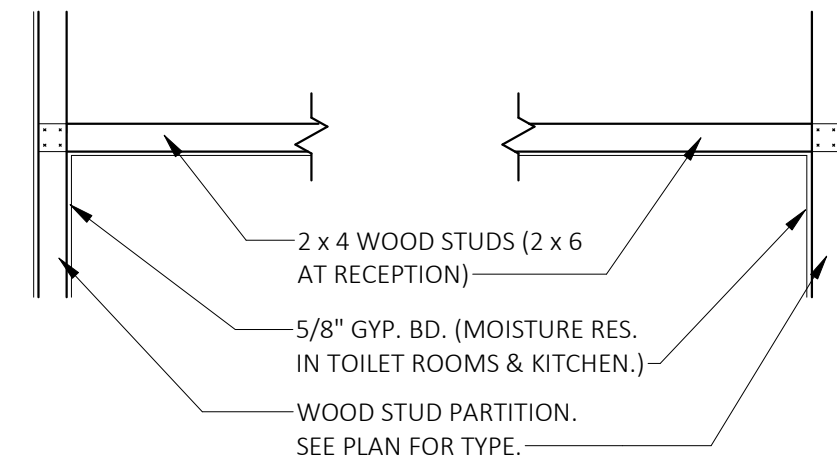
2 DOWNSPOUT
A2.4 SCALE: 1 1/2" = 1'-0"



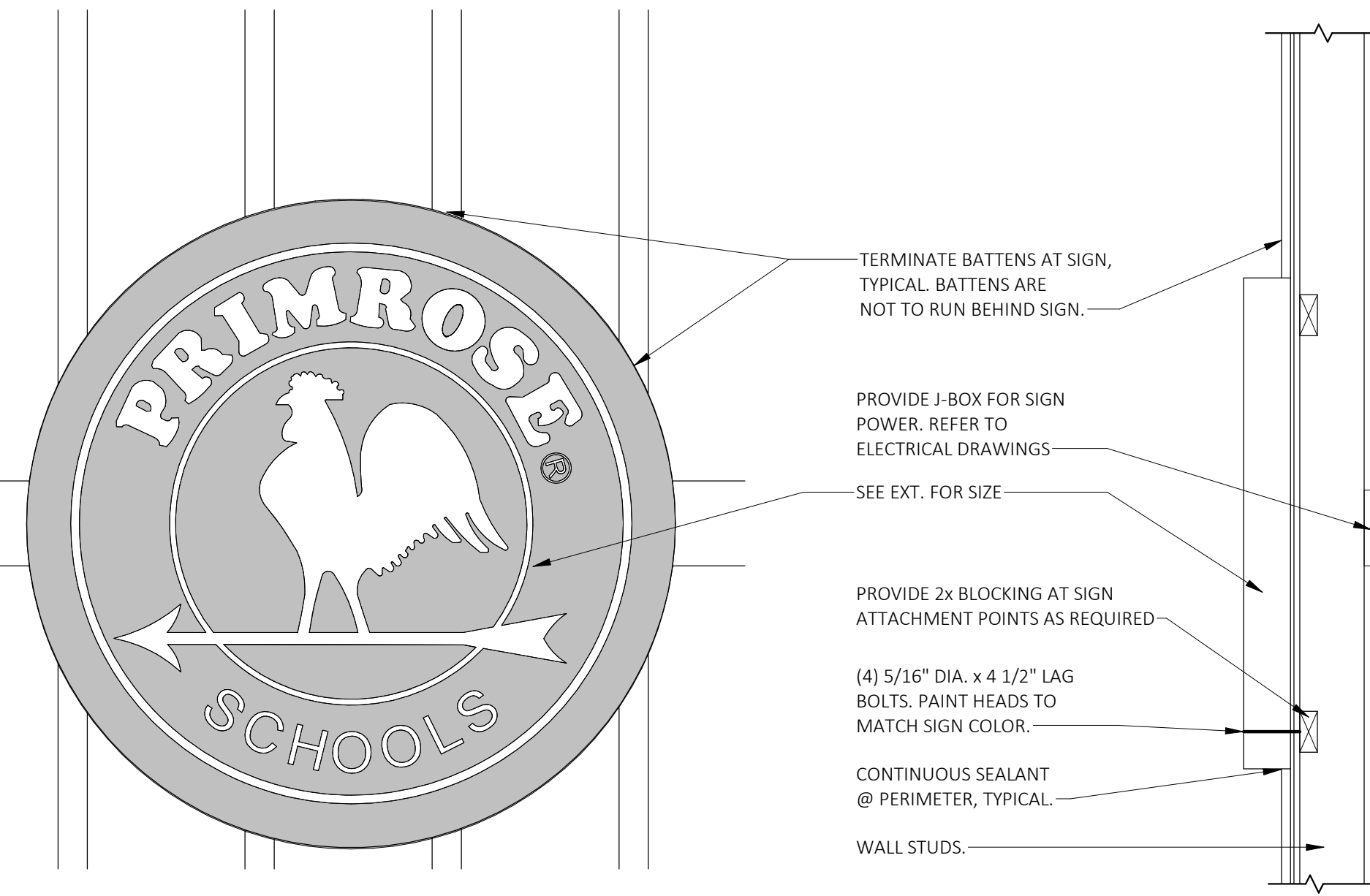
3 PARTITION SLIP JOINT
A2.4 SCALE: 3" = 1'-0"



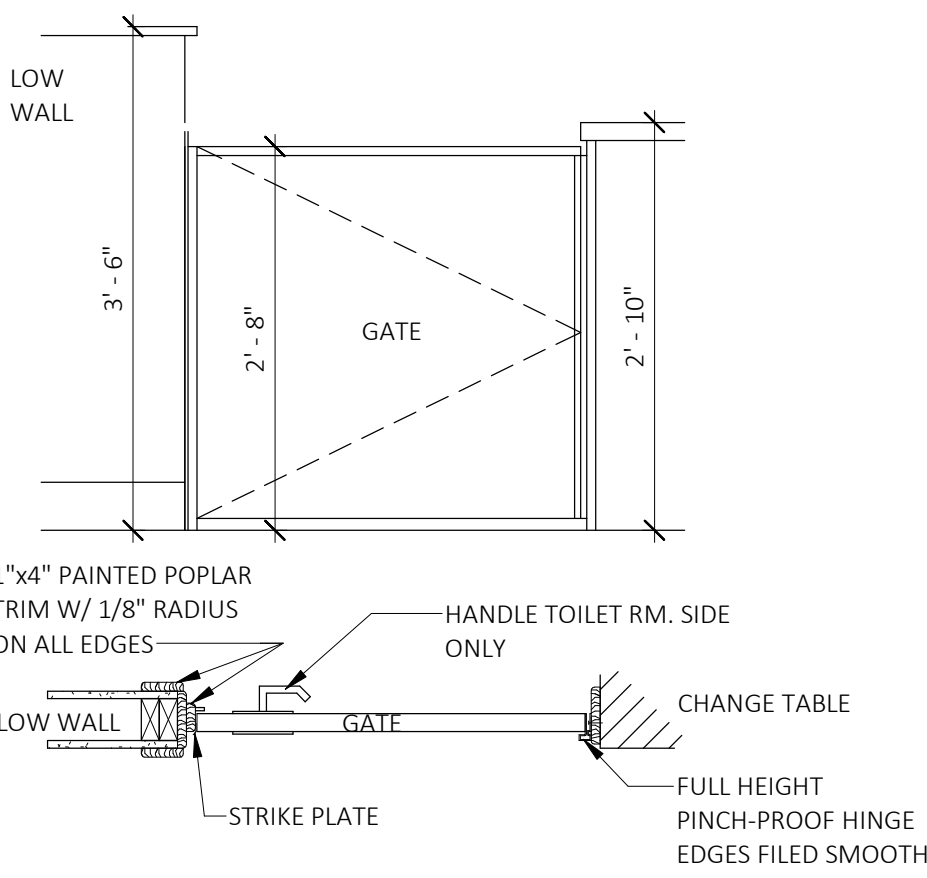
4 SOFFIT
A2.4 SCALE: 1 1/2" = 1'-0"



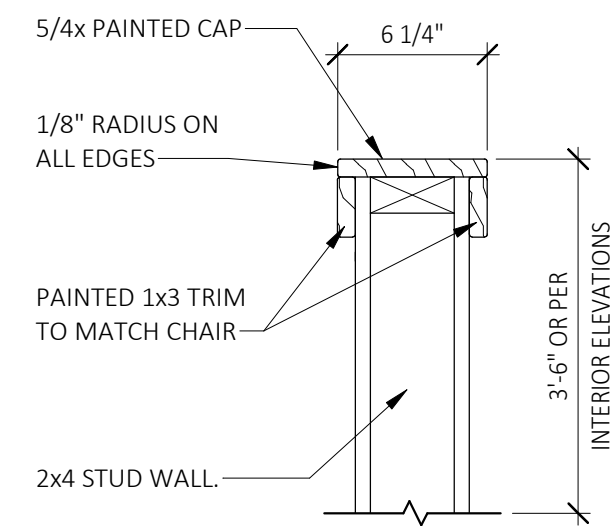
5 TYP GYP BD CLG
A2.4 SCALE: 1/2" = 1'-0"



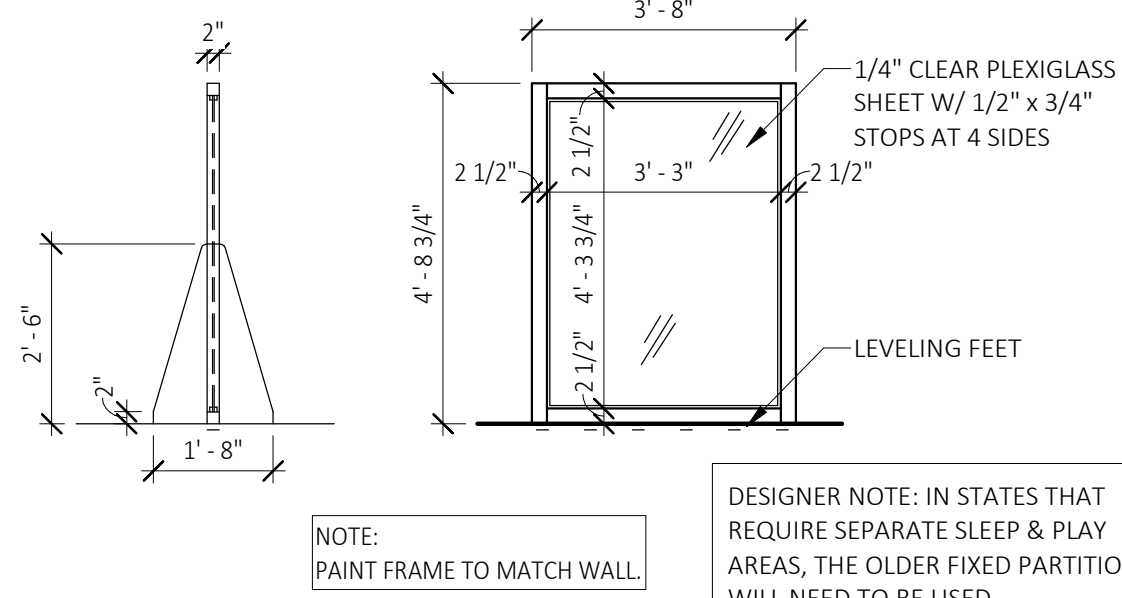
6 SIGN MOUNTING
A2.4 SCALE: 1" = 1'-0"



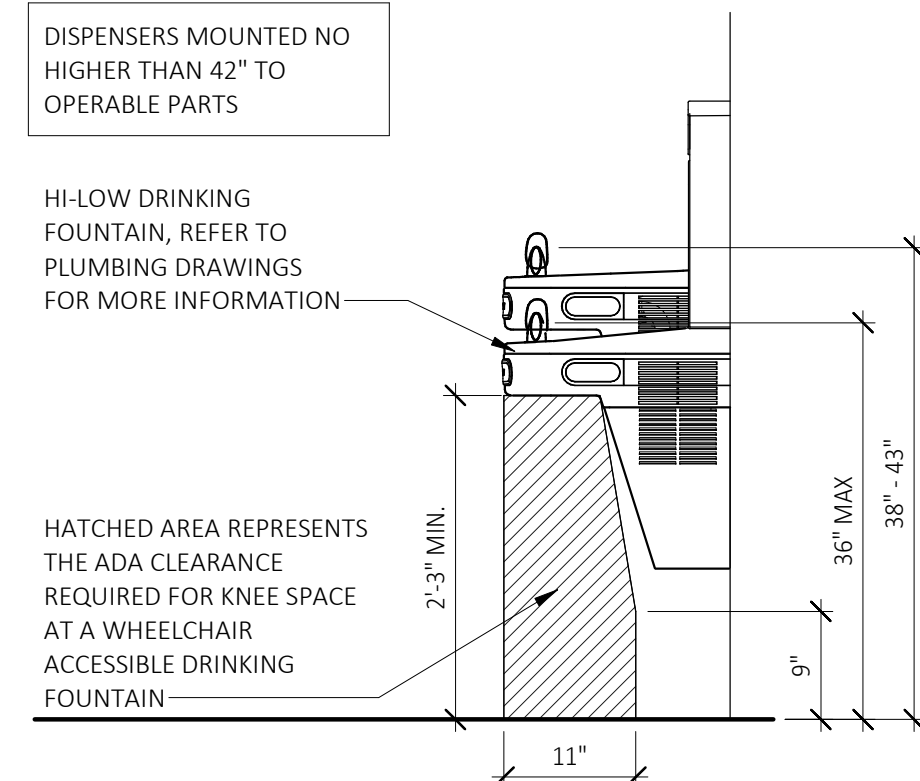
7 GATE
A2.4 SCALE: 3/4" = 1'-0"



8 LOW WALL
A2.4 SCALE: 1 1/2" = 1'-0"



9 MOBILE INFANT PARTITION DETAIL
A2.4 SCALE: 3/8" = 1'-0"



10 DRINKING FOUNTAIN
A2.4 SCALE: 3/4" = 1'-0"

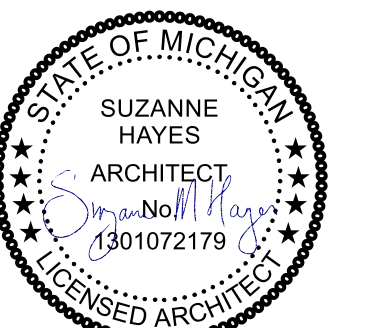
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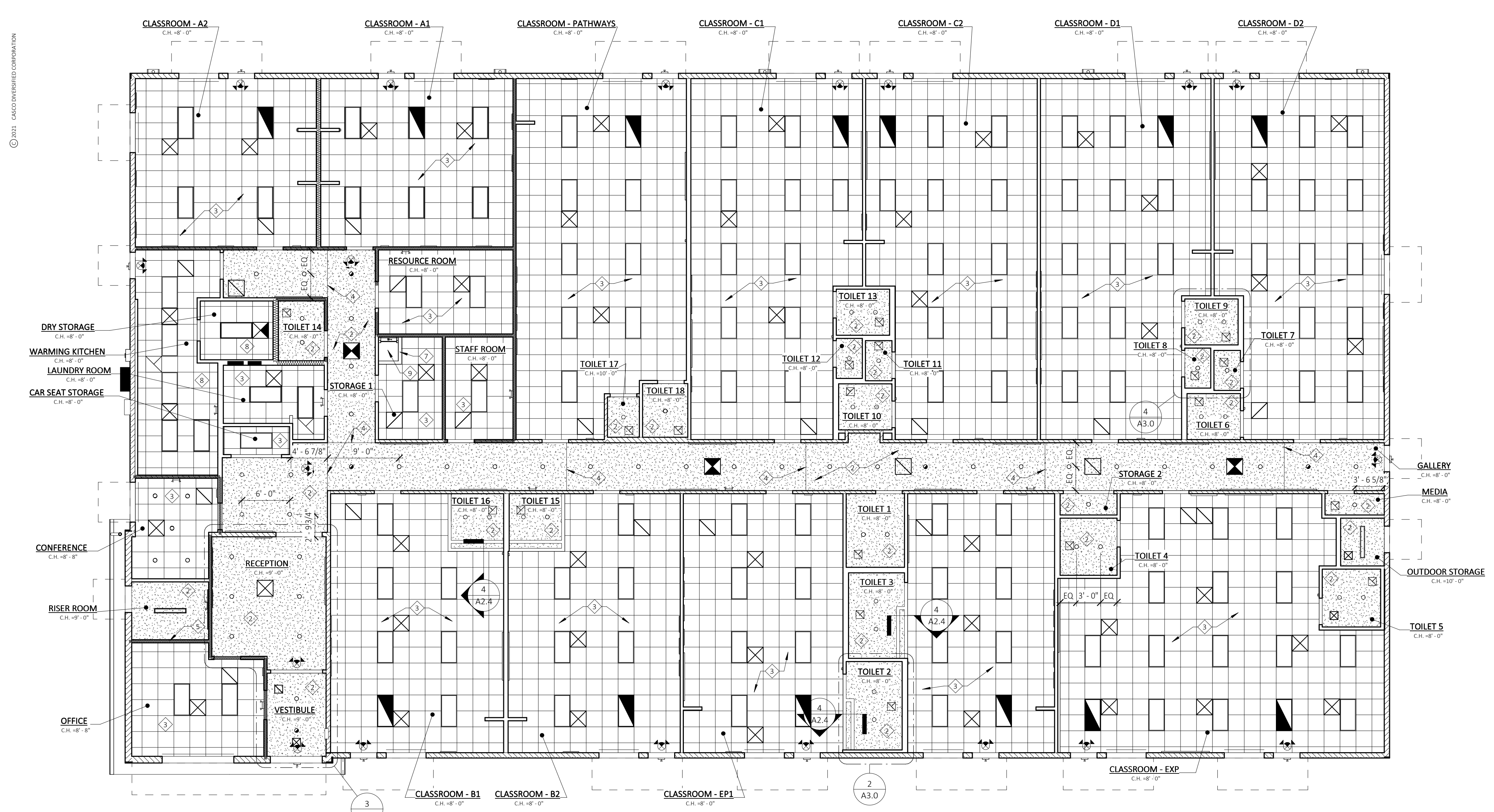
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MISCELLANEOUS
DETAILS



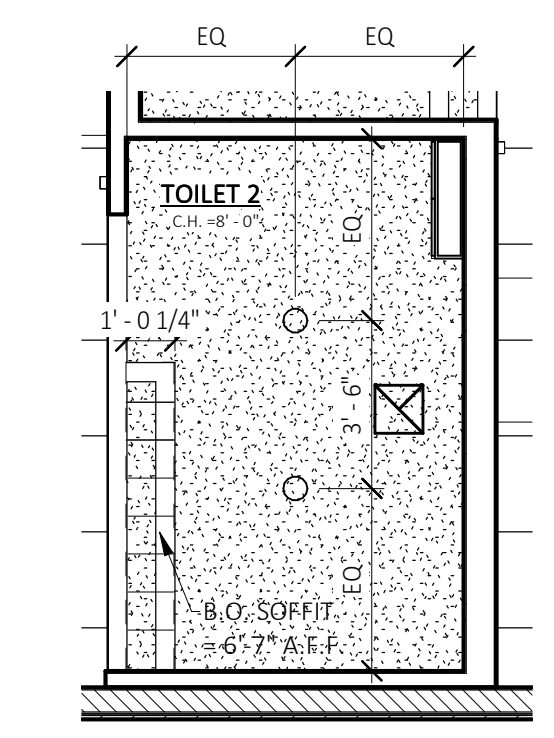
CEILING LEGEND

- DRYWALL CEILING. CEILING HEIGHT (C.H.) AS INDICATED.
- SUSPENDED LAY-IN ACOUSTICAL TILE CEILING. CEILING HEIGHT (C.H.) AS INDICATED.
- SOUND WALL - FILL CAVITY FROM FLOOR TO BOTTOM OF STRUCTURE W/ SOUND ATTENUATION BATTS. PROVIDE GYPSUM BOARD TO BOTTOM OF STRUCTURE AS REQUIRED FOR INSTALLATION OF BATTS.
- EXTERIOR WALL MOUNTED FIXTURE. MOUNT 84" A.F.F. TO BOTTOM OF FIXTURE, U.N.O. EXTERIOR ELEVATIONS. SEE ELECTRICAL.
- EXTERIOR EMERGENCY LIGHT FIXTURE. SEE ELECTRICAL.
- INTERIOR EMERGENCY LIGHT FIXTURE. SEE ELECTRICAL.
- 1' X 4' LIGHT FIXTURE, CEILING MOUNTED. SEE MECHANICAL.
- 2' X 4' LIGHT FIXTURE, RECESSED. SEE ELECTRICAL.
- 2' X 4' LIGHT FIXTURE, RECESSED - NIGHT LIGHT. SEE ELECTRICAL.
- RECESSED DOWNLIGHT. SEE ELECTRICAL.
- CEILING / WALL MOUNTED BATTERY POWERED EMERGENCY EXIT LIGHT W/ EMERGENCY LIGHT HEADS. SEE ELECTRICAL.
- RETURN AIR - SEE MECHANICAL.
- EXHAUST GRILLE - SEE MECHANICAL.
- SUPPLY AIR - SEE MECHANICAL.

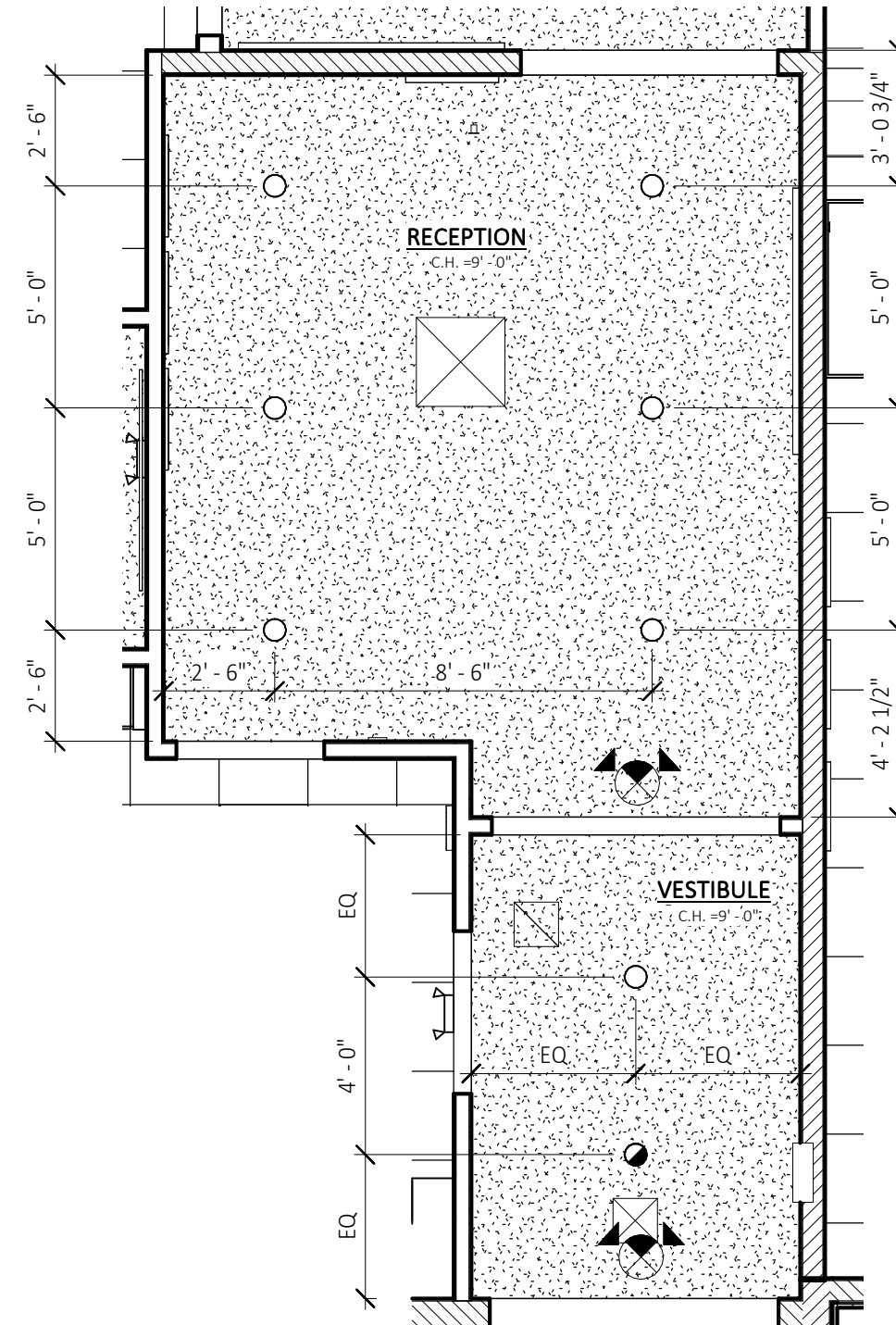
RCP KEYED NOTES

- 1 NOT USED
- 2 5/8" GYPSUM BOARD CEILING
- 3 2' X 2' SUSPENDED CEILING GRID WITH LAY IN ACOUSTICAL TILES. CENTER LIGHTS U.N.O.
- 4 DRYWALL CONTROL JOINT. MAXIMUM SPACING 30' - 0" O.C.
- 5 ELECTRIC HEATER. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
- 6 NOT USED
- 7 36" X 30" BILCO "TYPE 5" ROOF HATCH OR EQUAL.
- 8 2' X 2' SUSPENDED CEILING GRID WITH "KITCHEN ZONE" LAY IN ACOUSTICAL TILES, CENTER LIGHTS, U.N.O. COLOR AS INDICATED ON FINISH SCHEDULE.
- 9 ROOF LADDER, SEE 1/A2.4

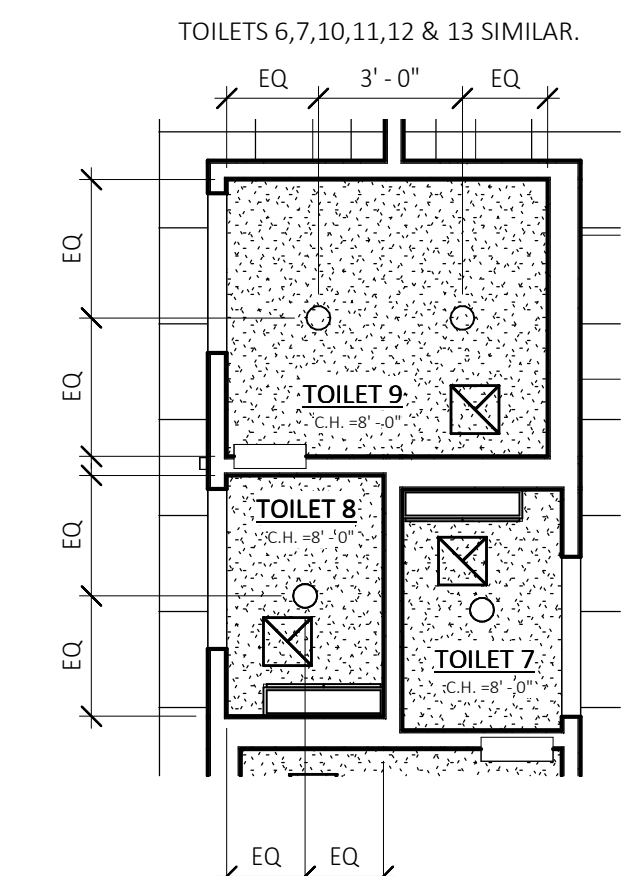
1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"
NORTH



2 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"

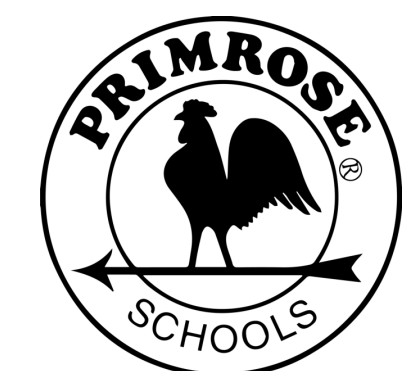


3 ENLARGED RECEPTION PLAN
SCALE: 1/4" = 1'-0"



4 ENLARGED TOILET PLAN
SCALE: 1/4" = 1'-0"

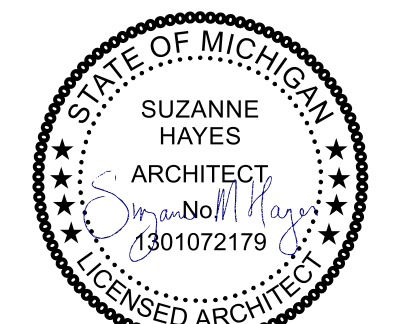
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Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

CEILING GENERAL NOTES

- A. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD, UNLESS NOTED OTHERWISE.
- B. CENTER LIGHT FIXTURES IN ROOMS. UNLESS NOTED OTHERWISE.
- C. COORDINATE CEILING PLAN & INSTALLATION WITH ALL ARCHITECTURAL, MECHANICAL & ELECTRICAL TRADES. (REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION & ELECTRICAL DRAWINGS FOR REQUIREMENTS)
- D. REFER TO ROOM FINISH SCHEDULE AND SPECS FOR FINISH CEILING TYPES & INSTALLATION REQUIREMENTS.
- E. PROVIDE AND INSTALL SEISMIC CEILING BRACING & RESTRAINTS, WHERE REQUIRED BY STATE OR LOCAL LAWS, CODES AND ORDINANCES.
- F. MECHANICAL CONTRACTOR SHALL COORDINATE ALL GRILLES, DIFFUSERS, EQUIPMENT, DUCTS, ETC. WITH ALL OTHER TRADES INCLUDING, BUT NOT LIMITED TO THE MILLWORK, CABINERY THAT EXTENDS TO THE CEILING IN TOILET ROOMS, ELECTRICAL CONTRACTOR, AND LIGHTING.
- G. ALL GYP. BD. CEILING PENETRATIONS TO BE SEALED, TEXTURED, AND FINISHED.
- H. CENTER ALL SUSPENDED CEILING GRIDS IN BOTH DIRECTIONS, TYPICAL UNLESS NOTED OR DIMENSIONED.
- I. EXTEND GYP. BD. TO 6" ABOVE SUSPENDED CEILING, U.N.O. GYP. BD. SHOULD EXTEND TO ROOF DECK AT ALL EXTERIOR WALLS.
- J. GC TO COORDINATE EXACT ROOF HATCH OPENING LOCATION WITH WALL AND LADDER BELOW AS WELL AS TRUSS SHOP DRAWINGS.

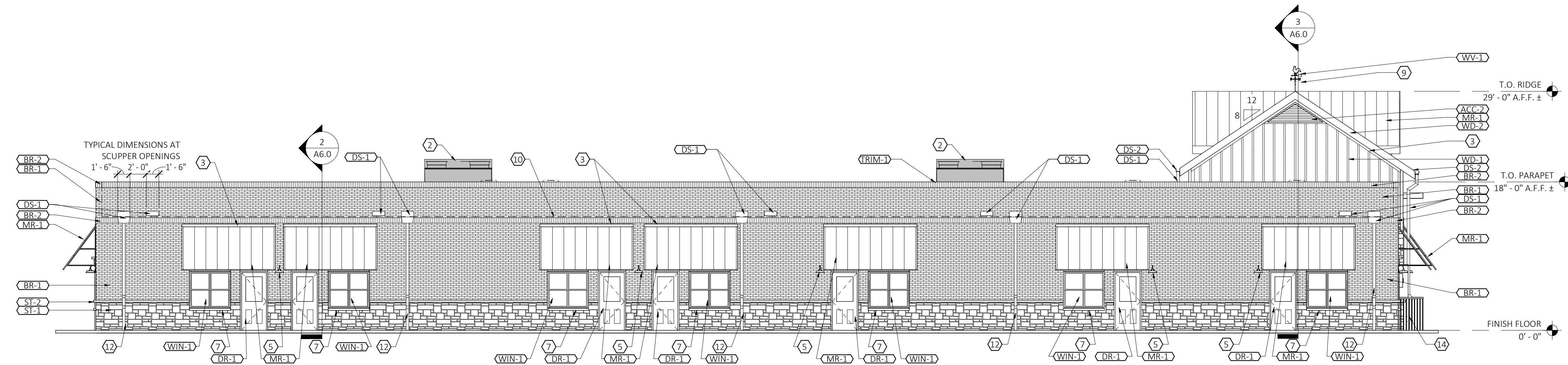
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Project Number 2202640
Bid Date -/-/-
Permit Date 7/10/23
For Construction -/-/-

REFLECTED CEILING PLAN

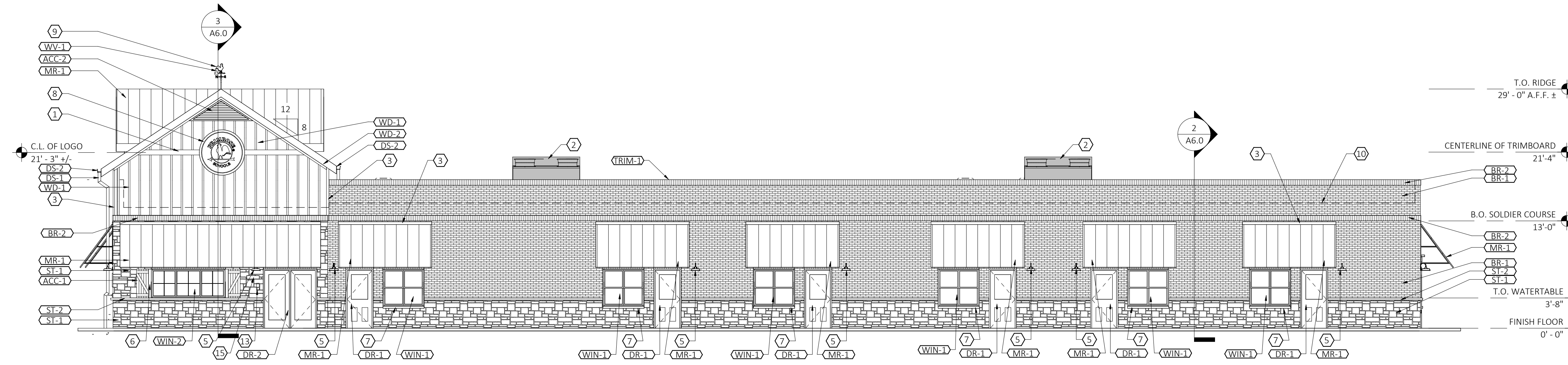
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ELEVATION KEYED NOTES

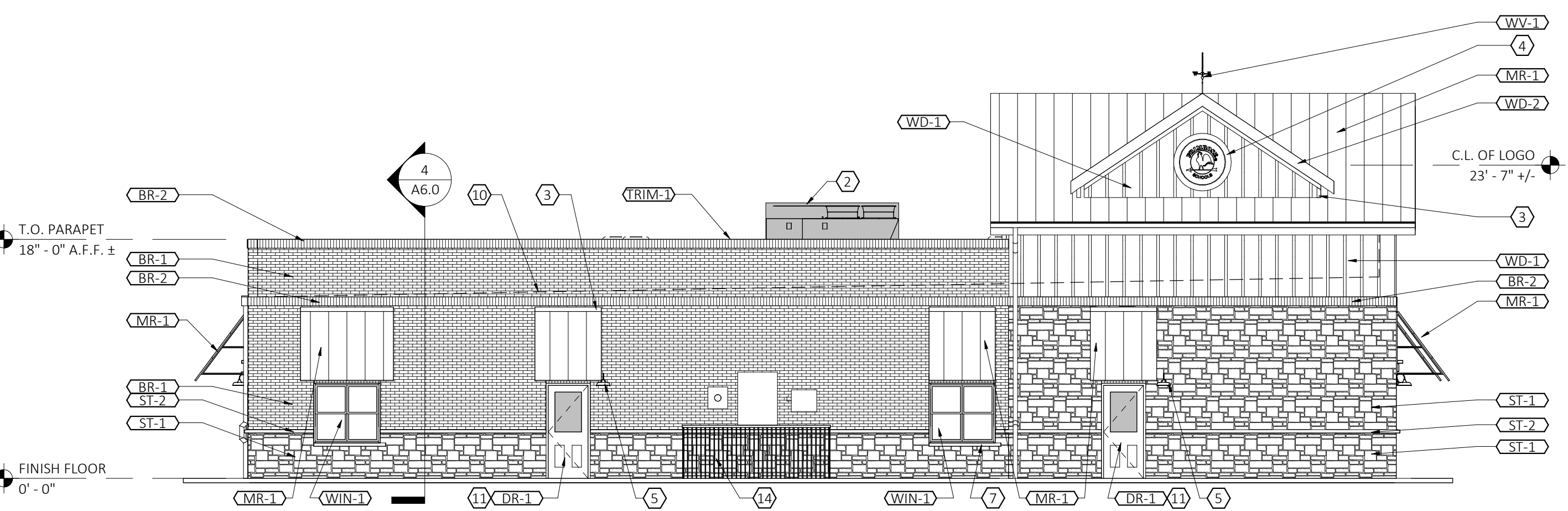
- 1 5/4 x 8 TRIMBOARD, PAINT TO MATCH WD - 1
- 2 RTU SCREENED ON 3 SIDES AS SHOWN, FIELD PAINT TO MATCH SIDING COLOR "ARCTIC WHITE". PROVIDED BY CAPTIVE AIRE. BOLTED TO RTU CURB. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 3 5/4 x 4 TRIMBOARD, WD - 2
- 4 42" ROUND LED LIGHTED SIGN (INTERNALLY LIT). SEE 6/A2.4 FOR MOUNTING DETAIL.
- 5 LIGHTING, REFER TO ELECTRICAL DRAWINGS.
- 6 TRIMBOARD AT OFFICE WINDOWS: 5/4 x 4, WD-1
- 7 BULLNOSE WINDOW SILL
- 8 60" ROUND LED LIGHTED SIGN (INTERNALLY LIT). SEE 6/A2.4 FOR MOUNTING DETAIL
- 9 WEATHERVANE
- 10 ROOF LINE BEHIND PARAPET WALL.
- 11 GLAZING TO RECEIVE WINDOW FILM, TINT - 1. SEE FINISH SCHEDULE SHEET A2.2
- 12 DOWNSPOUTS TIED INTO UNDERGROUND STORM SEWER BELOW GRADE.
- 13 KNOX BOX OR APPROVED EQUAL. COORDINATE LOCATION WITH LOCAL FIRE OFFICIAL
- 14 4' - 0" HIGH SOLID VINYL FENCE WITH (2) 3' - 0" W GATES.
- 15 BEIGE ALUMINUM PLAQUE W/6" REFLECTIVE BLACK VINYL NUMBERS. PROVIDED BY 1 HOUR SIGN. COORDINATE LOCATION WITH LOCAL FIRE OFFICIAL.



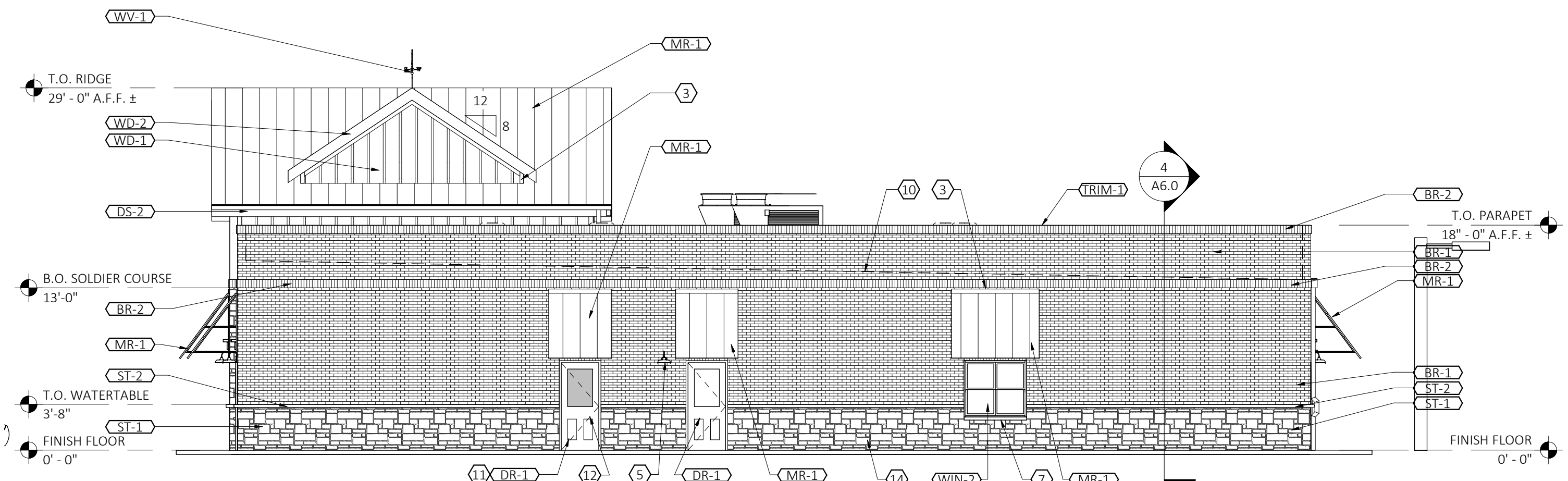
1 EAST ELEVATION
A4.0 SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
A4.0 SCALE: 1/8" = 1'-0"



3 NORTH ELEVATION
A4.0 SCALE: 1/8" = 1'-0"



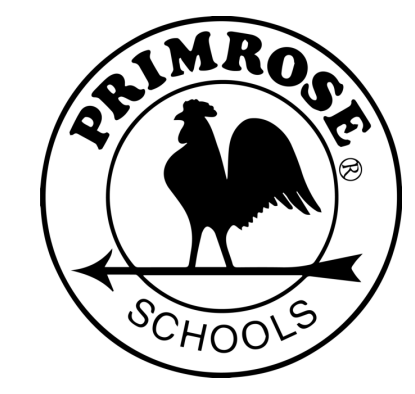
4 SOUTH ELEVATION
A4.0 SCALE: 1/8" = 1'-0"

EXTERIOR FINISH LEGEND

MARK	DESCRIPTION	SPECIFICATION
MR-1	METAL ROOF	BERRIDGE CEE-LOCK SYSTEM. COLOR: CHARCOAL GREY
ST-1	STACK STONE	BUECHEL STONE CORP.; MODEL: CHILTON LEDGESTONE
ST-2	3" STONE SILL @ WAINSCOT	BUECHEL STONE CORP.; STONE SILL COLOR: CHILTON, 3" x 3" D. SLOPE TOP FOR POSITIVE DRAINAGE
TRIM	MISC METAL TRIM & FLASHING	ANY MISC METAL FLASHING AND TRIM NOT NOTED AS TRIM-1 OR TRIM-2 SHOULD MATCH COLOR OF ADJACENT SURFACE. CONTACT ARCHITECT FOR DIRECTION AS REQ'D.
TRIM-1	MTL COPING @ PARAPET WALLS	COLOR TO MATCH HARDIE BOARD ARCTIC WHITE
TRIM-2	MTL TRIM @ METAL ROOF	COLOR: TO MATCH "MR-1"
WD-1	BOARD & BATTEN SIDING	HARDIE PANEL (4' x 10') & HARDIE TRIM BATTEN BOARDS (1 1/2" WIDE @ 16" O.C.) FINISH: SMOOTH COLOR: ARCTIC WHITE (PRIMED AND FIELD PAINTED)
WD-2	TRIM (FASCIA TRIM @ METAL ROOF)	HARDIE TRIM BOARDS, 5/4 NT3 SMOOTH, VARIOUS WIDTHS AS REQUIRED (SEE ELEVATIONS). COLOR: ARCTIC WHITE (PRIMED AND FIELD PAINTED)
ACC-1	SHUTTERS	EKENA MILLWORK: TWO BATTEN W/3-BAR BOARD & BATTEN COMPOSITE SHUTTERS. 3' - 6" x 1' - 6" W. SHUTTERS TO BE ORDERED PRIMED, PAINT TO MATCH WD-1
ACC-2	LOUVERS	AMERICAN LOUVER & VENT COMPANY, TGV81260 OR APPROVED EQUAL. COLOR: TO MATCH WD-1
WV-1	WEATHER VANE	LARGE COPPER ROOSTER WEATHERVANE. SEE 1A/A6.3 FOR ADDITIONAL INFORMATION.
DS-1	SCUPPERS, DOWNSPOUTS @ GABLED ROOF	COLOR: "ARCTIC WHITE"; 6" GUTTERS AND DOWNSPOUTS U.N.O.
DS-2	GUTTERS ALONG METAL ROOF	COLOR: TO MATCH "MR-1"
DR-1	HALF LITE DOORS	EXTERIOR INSULATED METAL HALF LITE DOOR; COLOR (INTERIOR & EXTERIOR); CHARCOAL GREY. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
DR-2	FULL LITE DOOR	EXTERIOR INSULATED METAL FULL LITE DOOR; COLOR (INTERIOR & EXTERIOR); CHARCOAL GREY. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION.
WIN-1	VINYL WINDOWS	ANDERSEN: SILVERLINE 2200 SERIES. COLOR: CHARCOAL GREY. SEE WINDOW SCHEDULE.
WIN-2	VINYL WINDOWS (@ OFFICE)	ANDERSEN: 100 SERIES. COLOR: CHARCOAL GREY. SEE WINDOW SCHEDULE.
BR-1	BRICK VENEER	AUTHENTIC BRICK; THIN BRICK VENEER; STYLE "COTTONWOOD"
BR-2	BRICK VENEER SOLDIER COURSE	OLDMILL BRICK VENEER SOLDIER COURSE; MODEL: OLYMPUS

PRIMROSE SCHOOL

43455 W. 10 MILE ROAD
NOVI, MI 48375

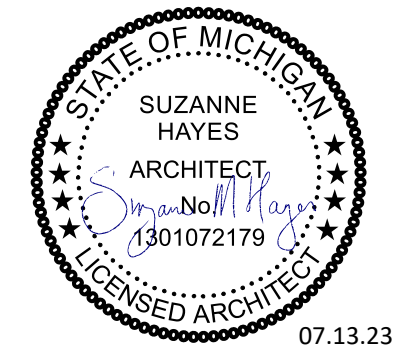


PRIMROSE SCHOOL FRANCHISING COMPANY
3200 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640

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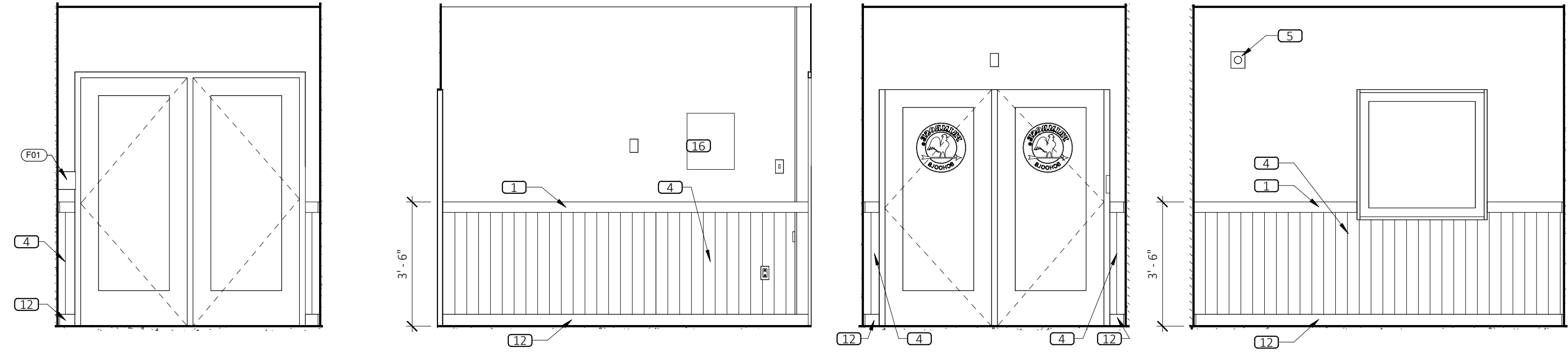


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

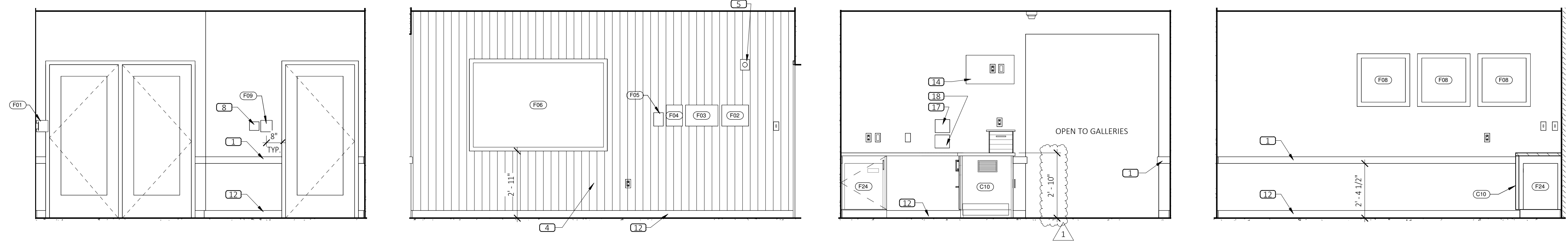
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EXTERIOR ELEVATIONS

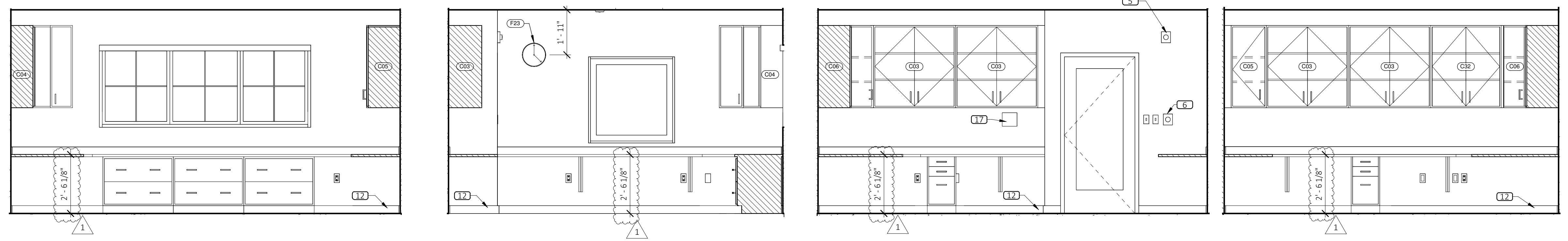
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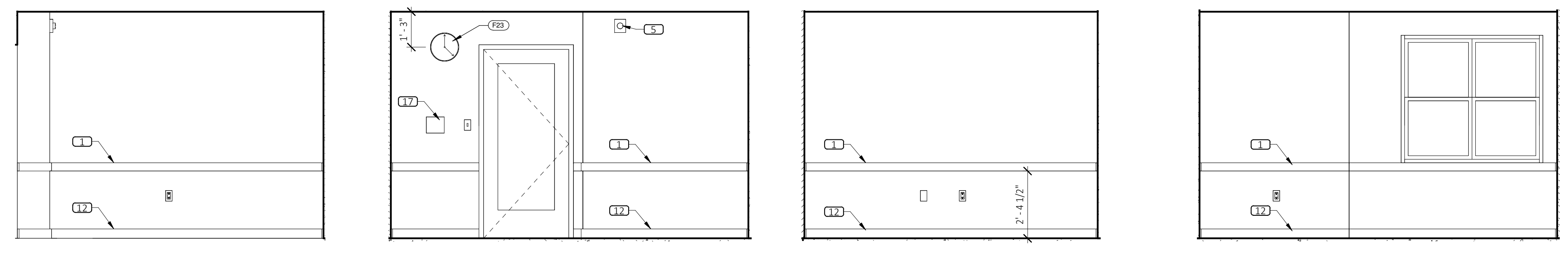
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 2 VESTIBULE SCALE: 3/8" = 1'-0"
 3 VESTIBULE SCALE: 3/8" = 1'-0"
 4 VESTIBULE SCALE: 3/8" = 1'-0"



5 RECEPTION SCALE: 3/8" = 1'-0"
 6 RECEPTION SCALE: 3/8" = 1'-0"
 7 RECEPTION SCALE: 3/8" = 1'-0"
 8 RECEPTION SCALE: 3/8" = 1'-0"



9 OFFICE SCALE: 3/8" = 1'-0"
 10 OFFICE SCALE: 3/8" = 1'-0"
 11 OFFICE SCALE: 3/8" = 1'-0"
 12 OFFICE SCALE: 3/8" = 1'-0"



13 CONFERENCE SCALE: 3/8" = 1'-0"
 14 CONFERENCE SCALE: 3/8" = 1'-0"
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 16 CONFERENCE SCALE: 3/8" = 1'-0"

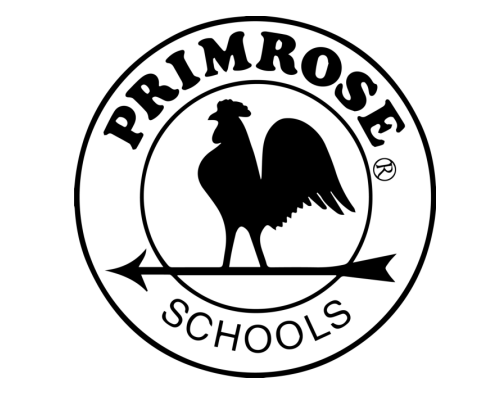
ELEVATION KEYED NOTES

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- 10 MOP SINK
- 11 FRP
- 12 COVE BASE
- 13 COAT HOOKS
- 14 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- 15 TIME CLOCK
- 16 FIRE ALARM ANNUNCIATOR PANEL
- 17 INTERCOM
- 18 MASTER INTERCOM

CASEWORK SCHEDULE

TYPE MARK	ITEM (REFER TO FFE SCHEDULE ON SHEET ID1.0 FOR "F" TAGGED ITEMS)	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY				
C02	CUBBIES ABOVE CHANGE TABLE				
C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED				
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET				
C05	16" DEEP X 1'-6"W X 3'-6"H SURFACE MOUNTED				
C06	16" DEEP X 1'-3"W X 3'-6"H SURFACE MOUNTED				
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C10	RECEPTION DESK CABINETS				
C11	30" X 40" CURRICULUM CABINET				
C12	16" DEEP X 4' LONG WALL CABINET				
C13	CAR SEAT STORAGE SHELVING				
C14	24"D x 36"L ADJ. WD SHELVES W/ 1'-6" L STANDARDS				
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS				
C16	12" DEEP X 3'-0"W X 3'-0"T SURFACE MOUNTED				
C17	8" DEEP X 2'-6"W X 3'-0" SEMI - RECESSED				
C18	STORAGE ROOM SHELVING				
C19	PAPER ROLL HOLDER				
C20	12" DEEP X 2'-6" LONG WOOD SHELF				
C21	8" DEEP X 2'-6"W X 3'-0" SURFACE MOUNTED				
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS				
C23	KITCHENETTE BASE CABINETS				
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C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				
C31	LAUNDRY ROOM STORAGE SHELVING				
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PRIMROSE SCHOOL
 43455 W. 10 MILE ROAD
 NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
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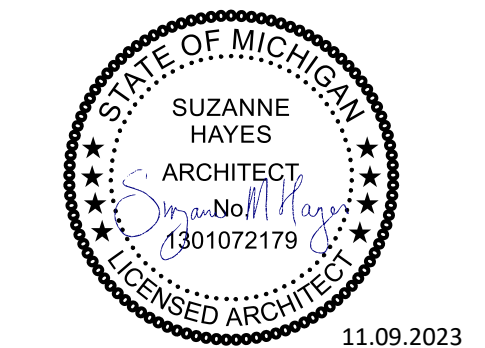
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Date
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 Description

No.
 1

CODE RESPONSE



Professional of Record:
 Suzanne M Hayes
 LICENSE NO: 1301072179
 EXP. DATE: 12/19/24

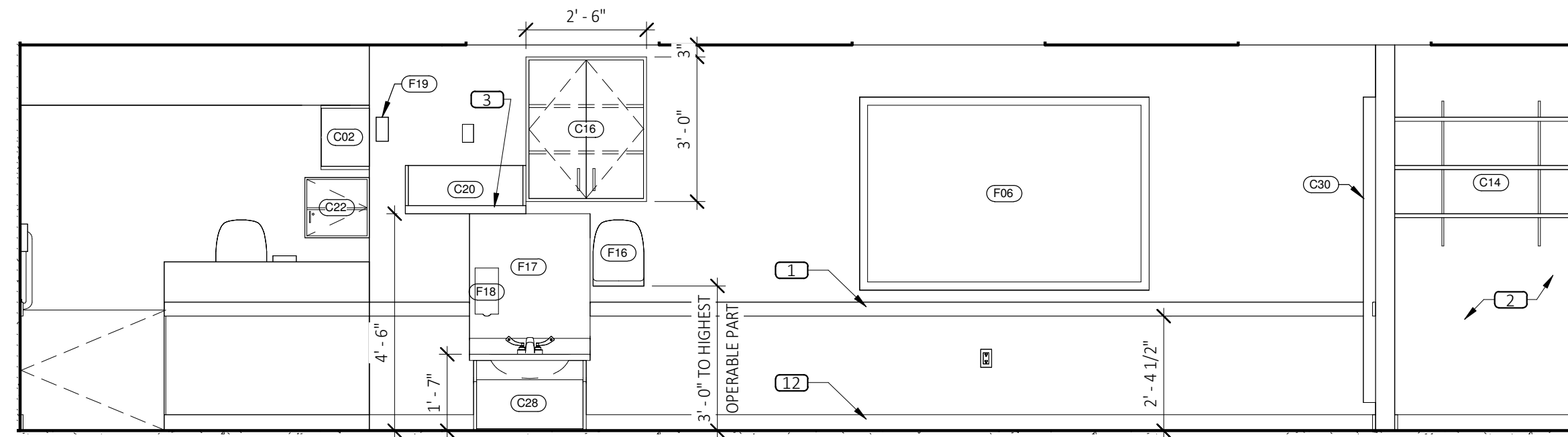
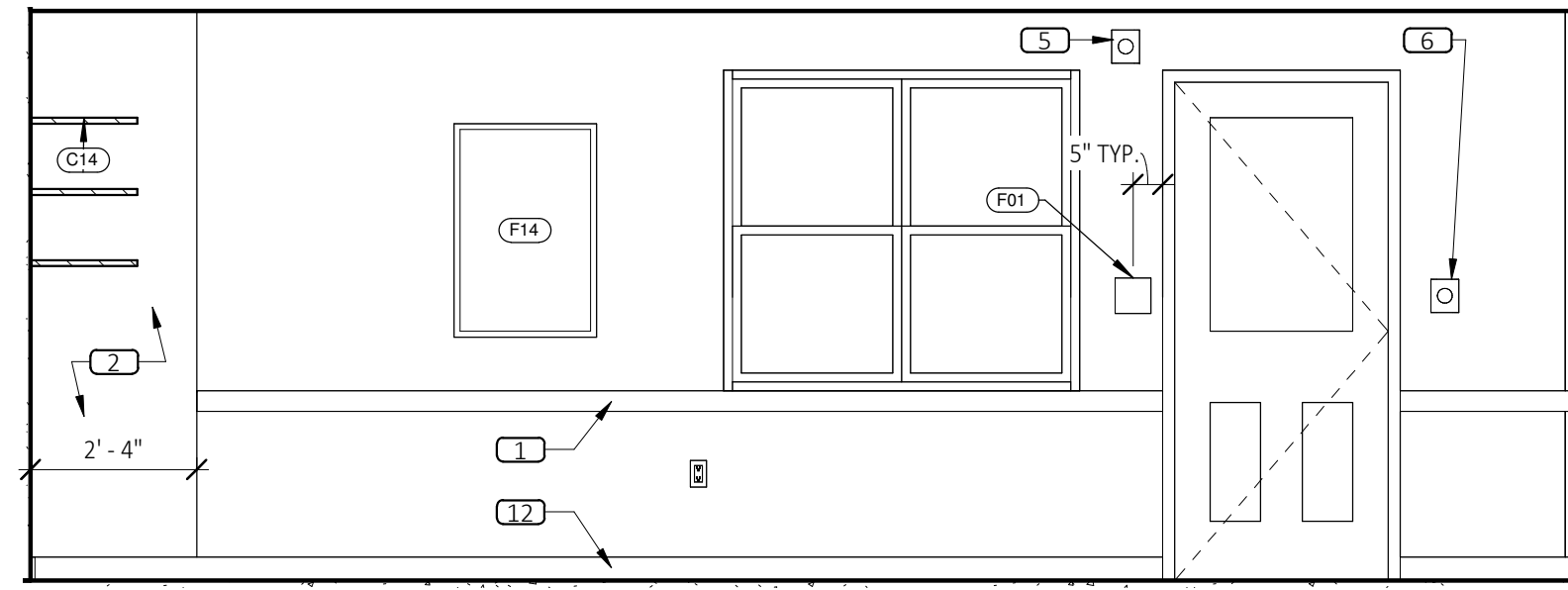
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INTERIOR
 ELEVATIONS

A5.1

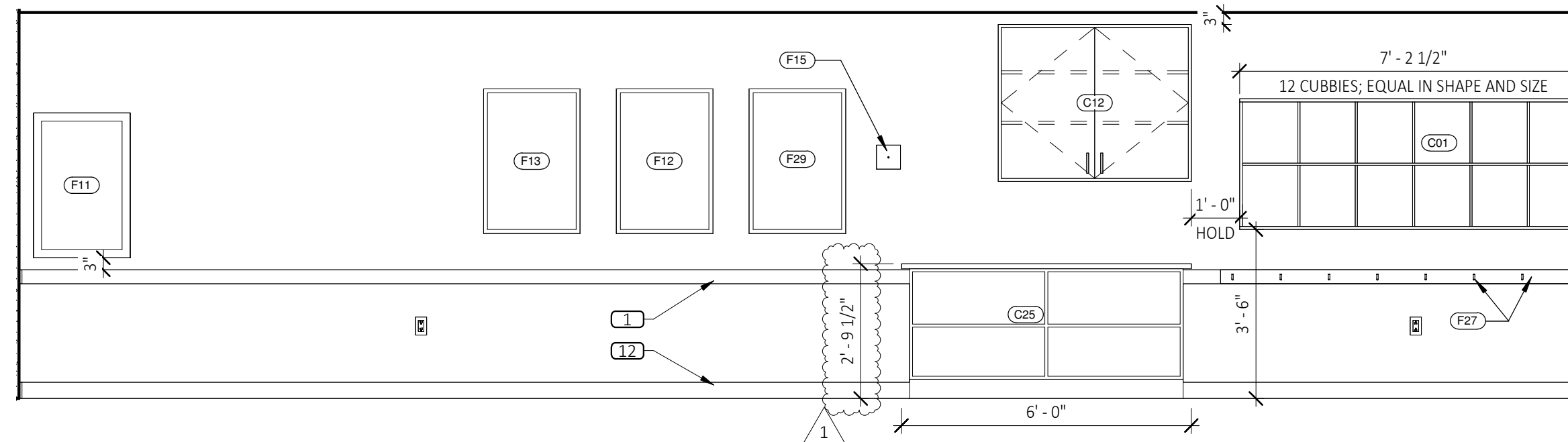
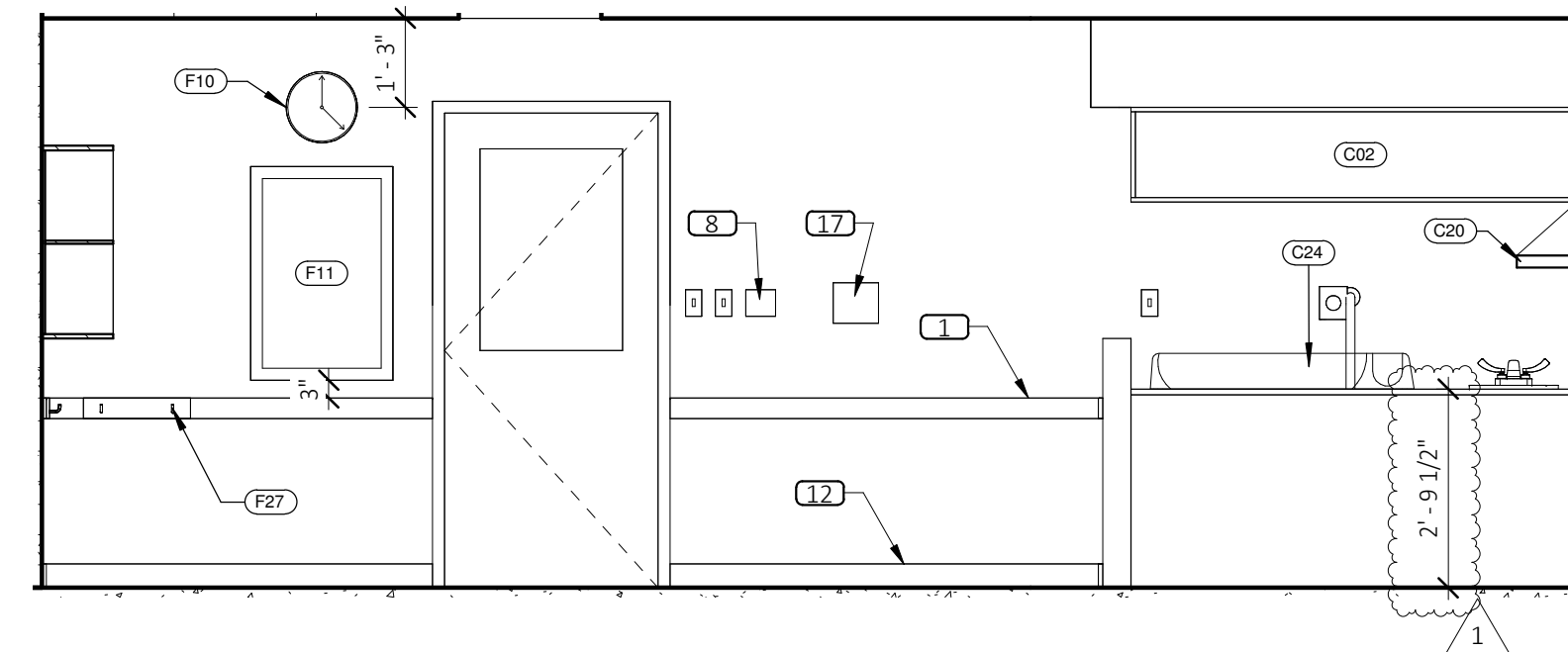
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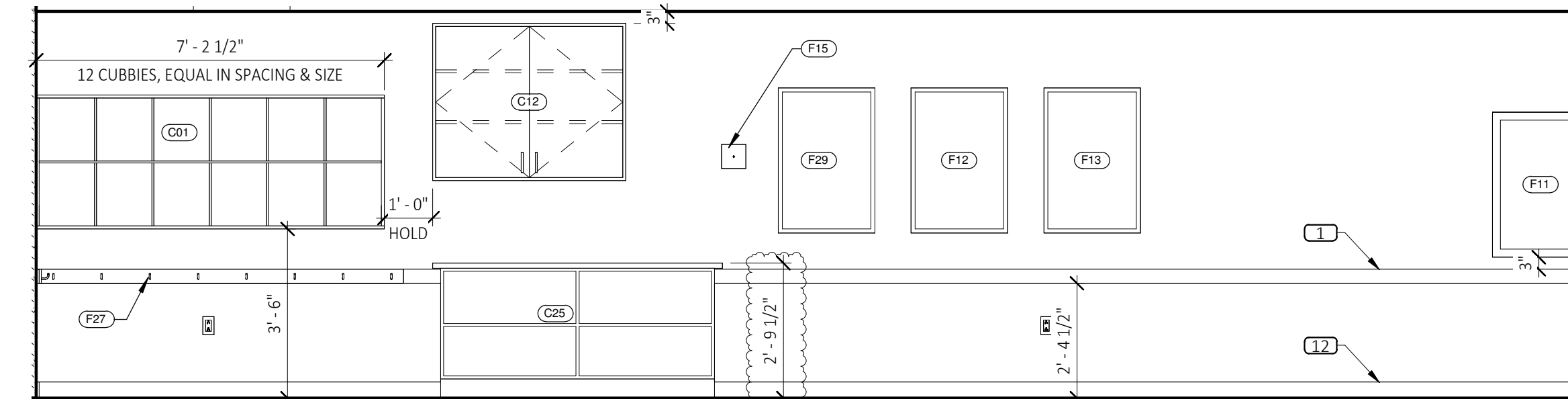
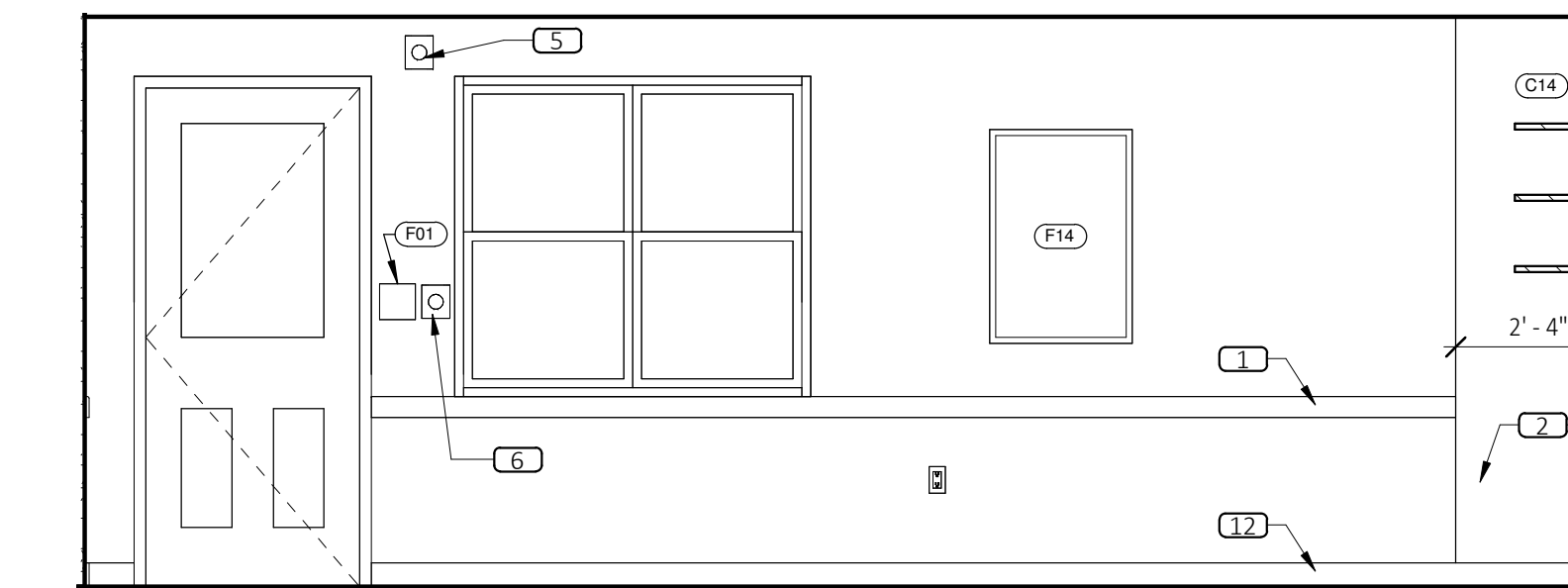
1 CLASSROOM B1
A5.2 SCALE: 3/8" = 1'-0"

2 CLASSROOM B1
A5.2 SCALE: 3/8" = 1'-0"



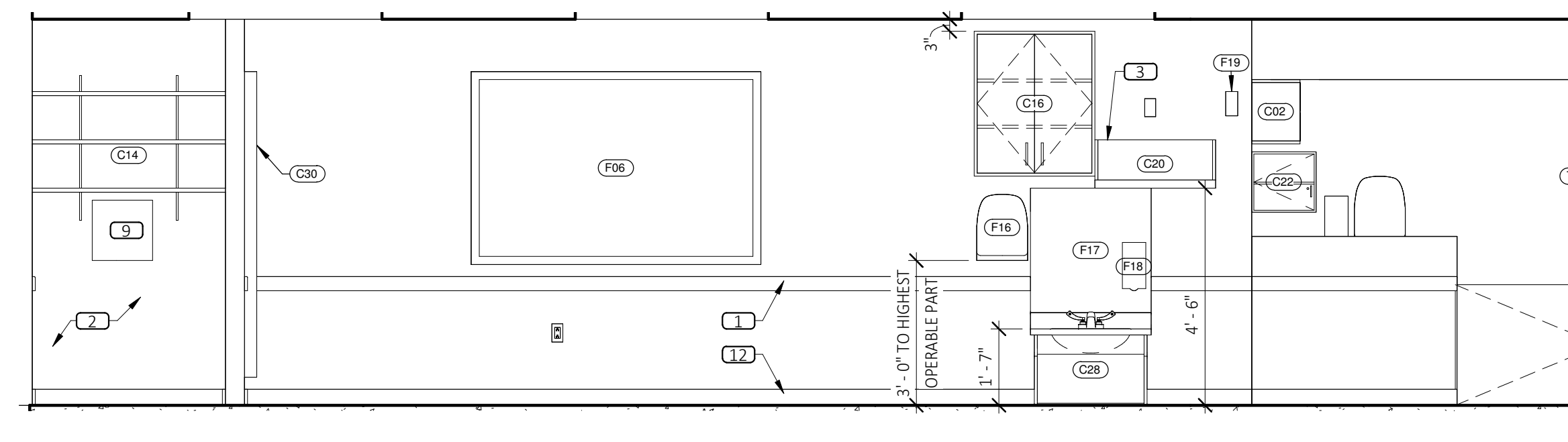
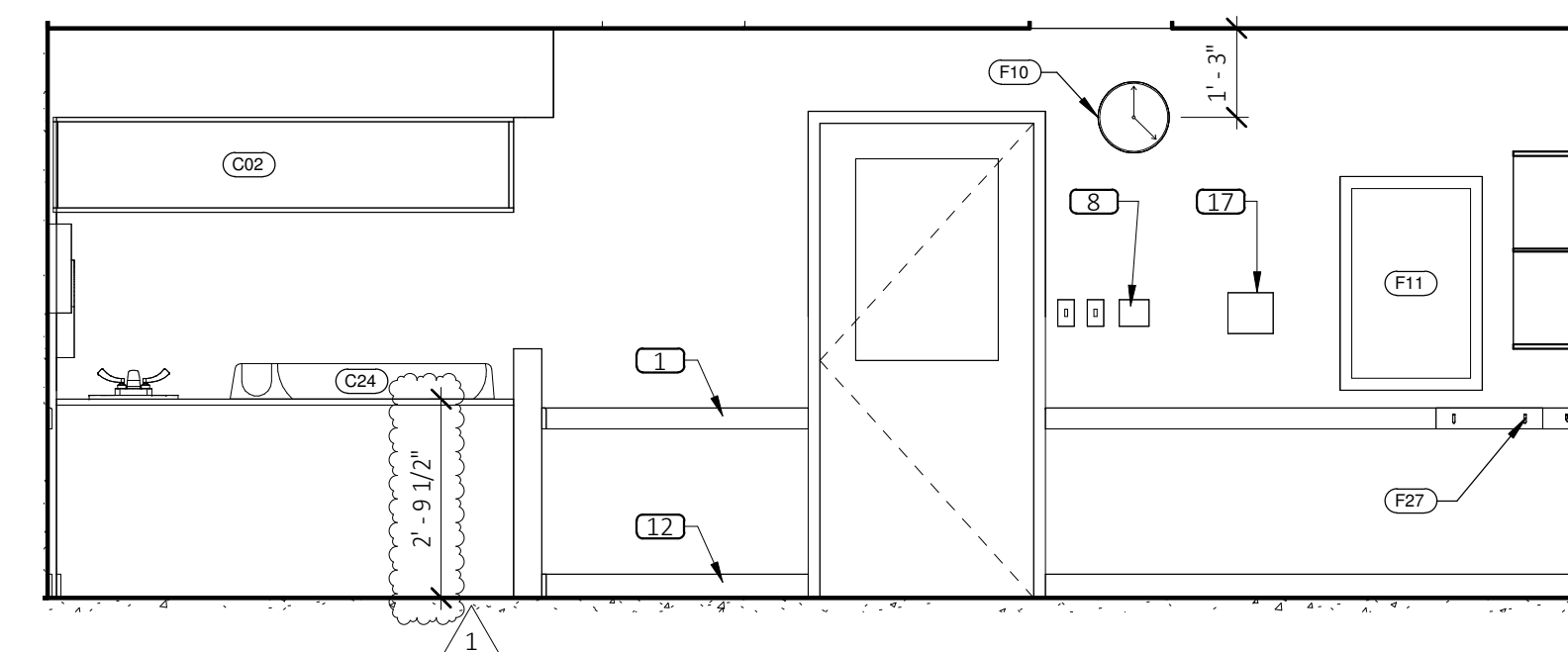
3 CLASSROOM B1
A5.2 SCALE: 3/8" = 1'-0"

4 CLASSROOM B1
A5.2 SCALE: 3/8" = 1'-0"



5 CLASSROOM B2
A5.2 SCALE: 3/8" = 1'-0"

6 CLASSROOM B2
A5.2 SCALE: 3/8" = 1'-0"



7 CLASSROOM B2
A5.2 SCALE: 3/8" = 1'-0"

8 CLASSROOM B2
A5.2 SCALE: 3/8" = 1'-0"

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PRIMROSE SCHOOL
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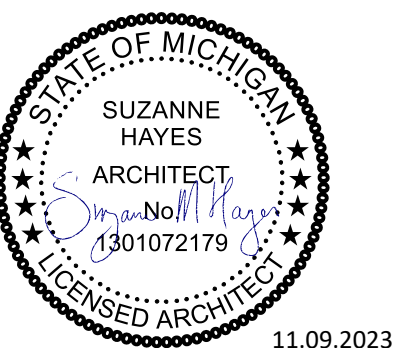
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Date
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CONSTR. DOC. & REVISIONS
Description

No. 1

1 CODE RESPONSE



11.09.2023
Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

Drawn/Checked DSC / ALA
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INTERIOR
ELEVATIONS

A5.2

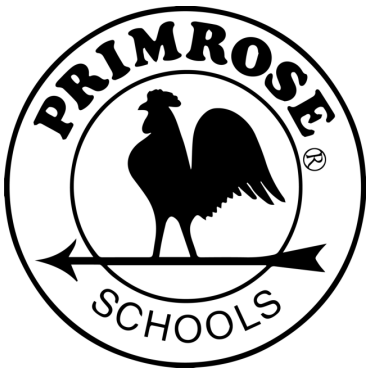
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C14	24"D x 36"L ADJ. WD SHELVES W/ 1"-6" L STANDARDS				
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS				
C16	12" DEEP X 3'-0"W X 3'-0"T SURFACE MOUNTED				
C17	8" DEEP X 2'-6"W X 3'-0" SEMI- RECESSED				
C18	STORAGE ROOM SHELVING				
C19	PAPER ROLL HOLDER				
C20	12" DEEP X 2'-6" LONG WOOD SHELF				
C21	8" DEEP X 2'-6"W X 3'-0" SURFACE MOUNTED				
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS				
C23	KITCHENETTE BASE CABINETS				
C24	BABY CHANGING TABLE (SNEEZE GAURDS ONLY OCCUR AT AGAINST A WALL)				
C25	"PUT DOWN" COUNTER				
C26	MOBILE INFANT PARTITION, SEE DETAIL 9/A2.4				
C27	LOCKERS, SEE ELEVATIONS				
C28	SINGLE LAVATORY				
C29	DOUBLE LAVATORY				
C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				
C31	LAUNDRY ROOM STORAGE SHELVING				
C32	16" DEEP X 3'-0"W X 3'-6"H SURFACED MOUNTED				

PRIMROSE SCHOOL
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NOVI, MI 48375

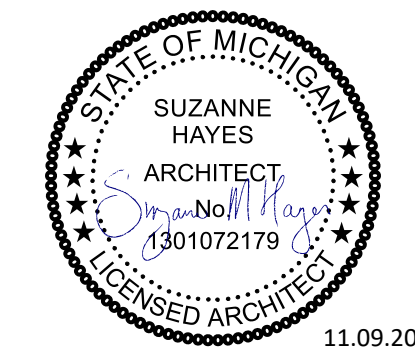


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ATLANTA, GEORGIA 30339-5640
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Date
11/09/23

CONSTR. DOC. & REVISIONS
Description

No. 1
CODE RESPONSE



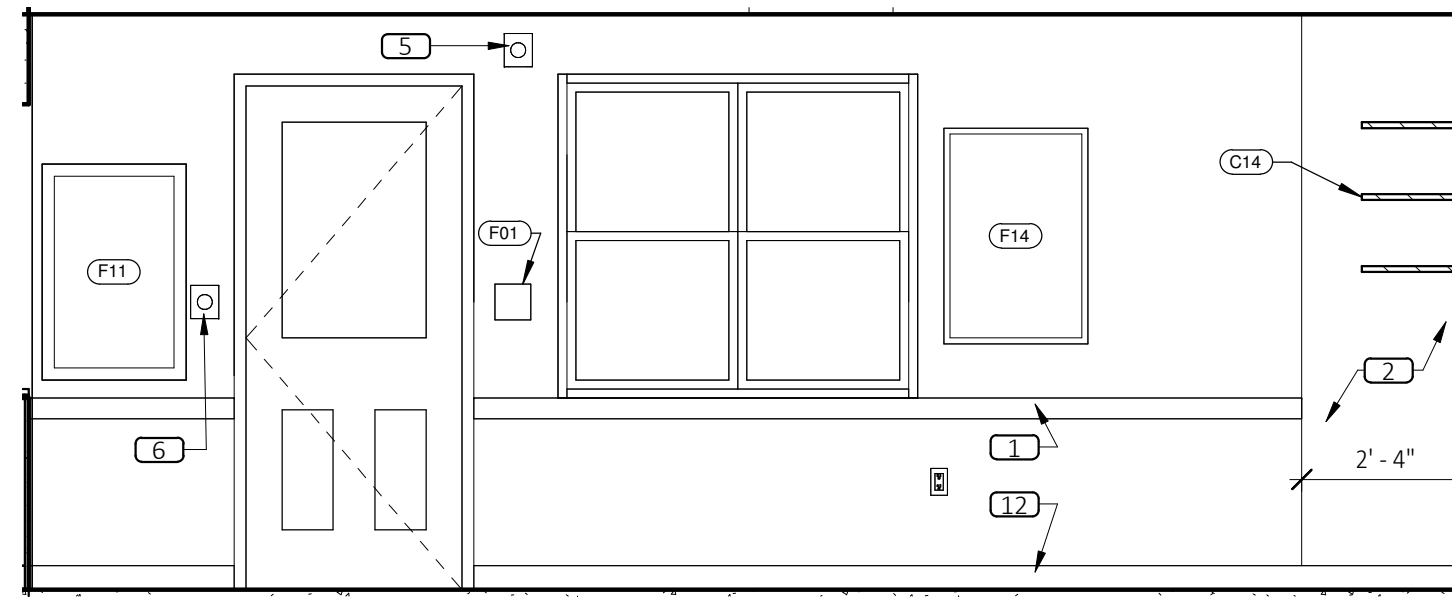
11.09.2023

Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

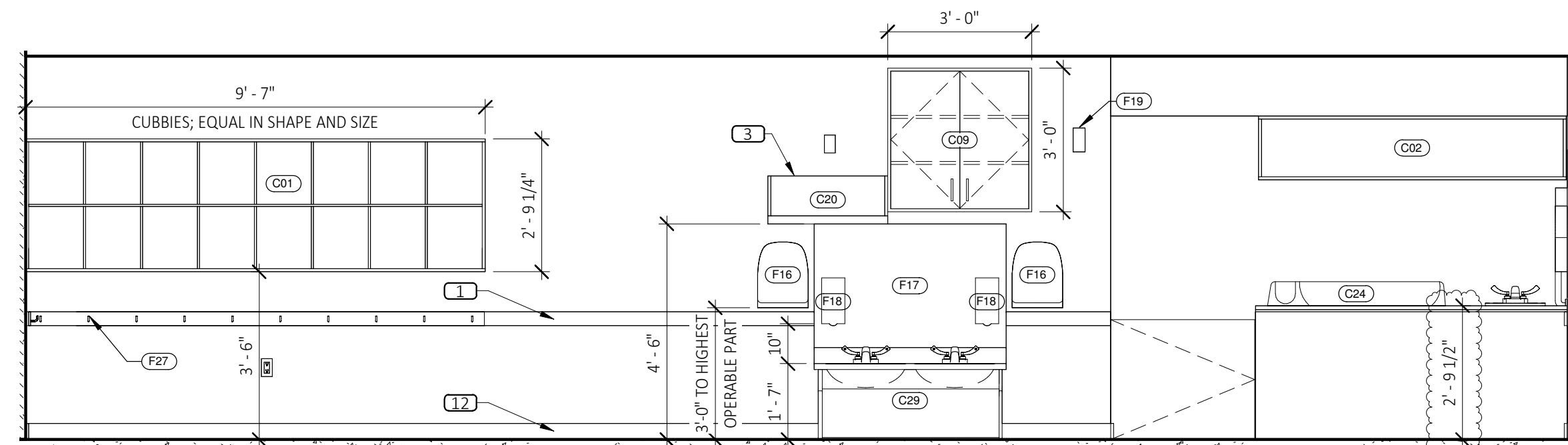
Drawn/Checked DSC / ALA
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

INTERIOR
ELEVATIONS

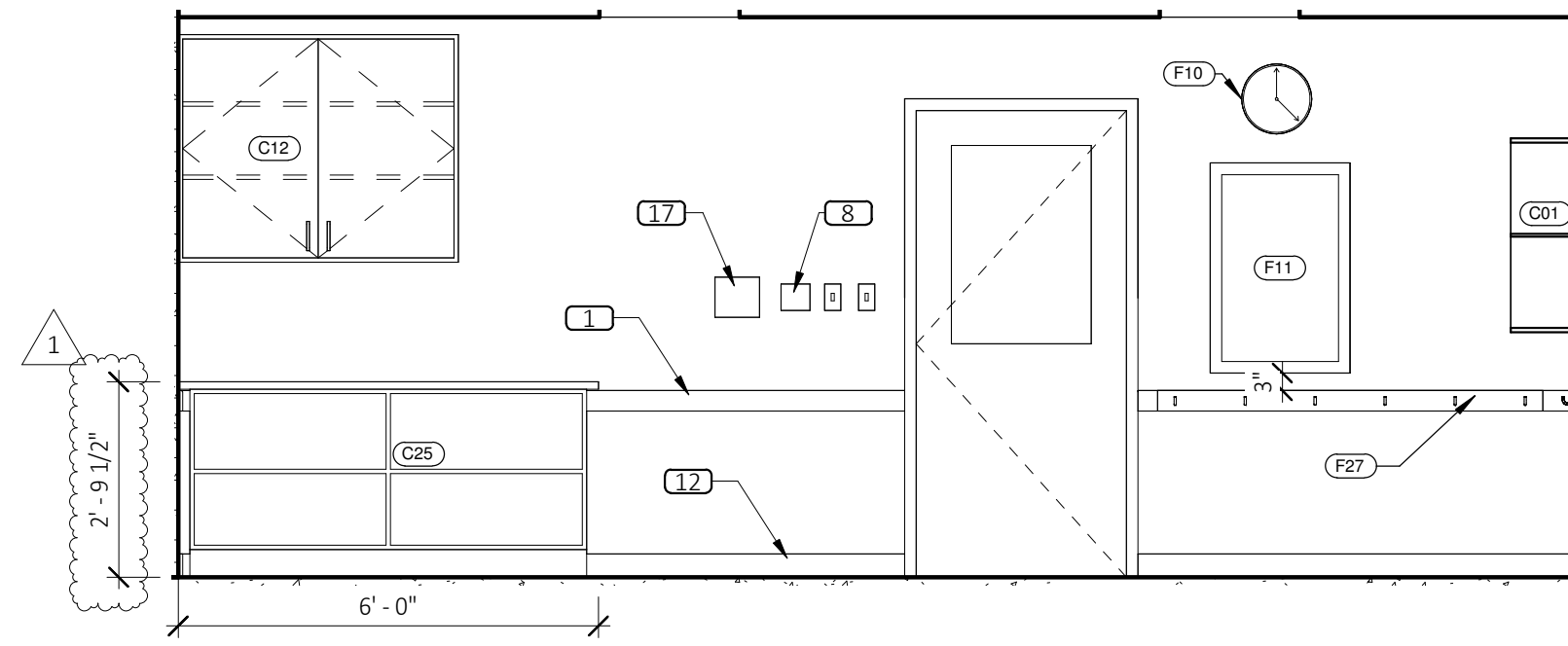
A5.3



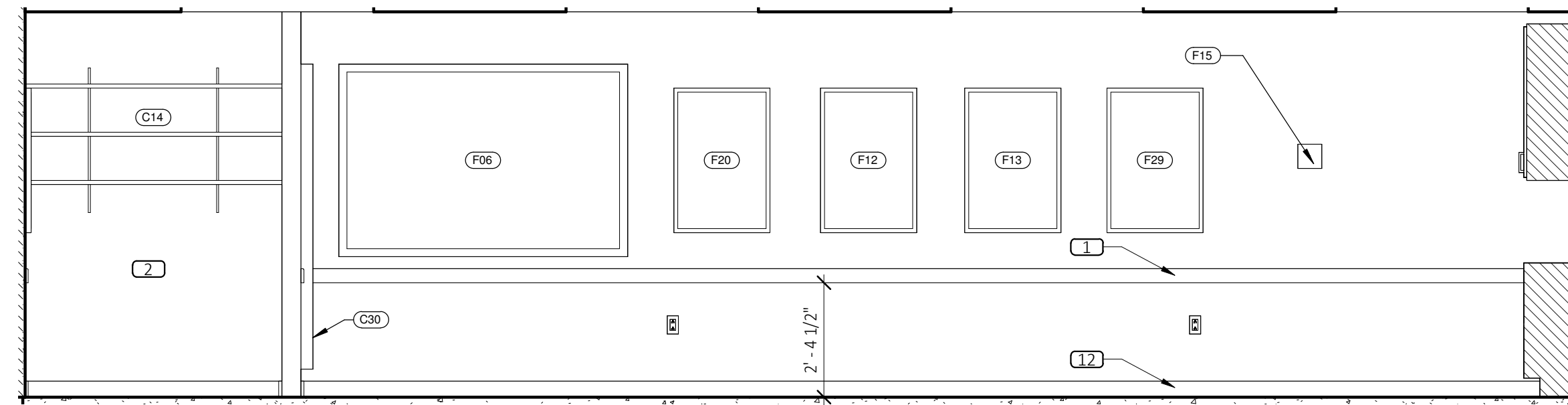
1 CLASSROOM EP1
A5.3 SCALE: 3/8" = 1'-0"



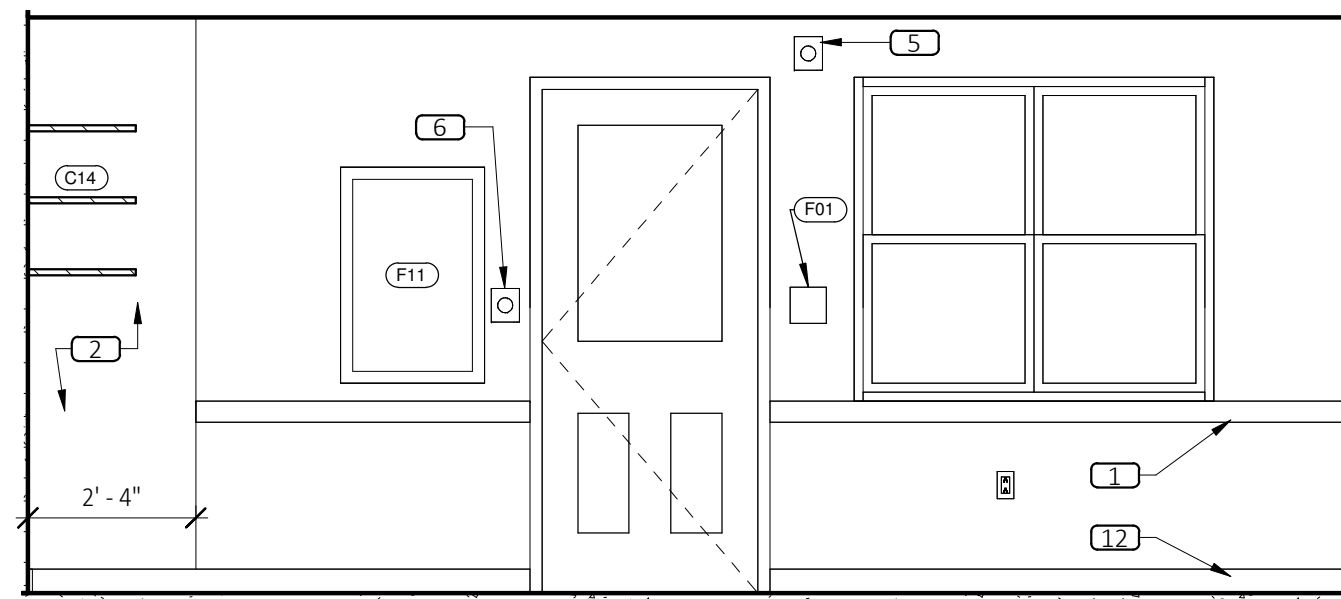
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A5.3 SCALE: 3/8" = 1'-0"



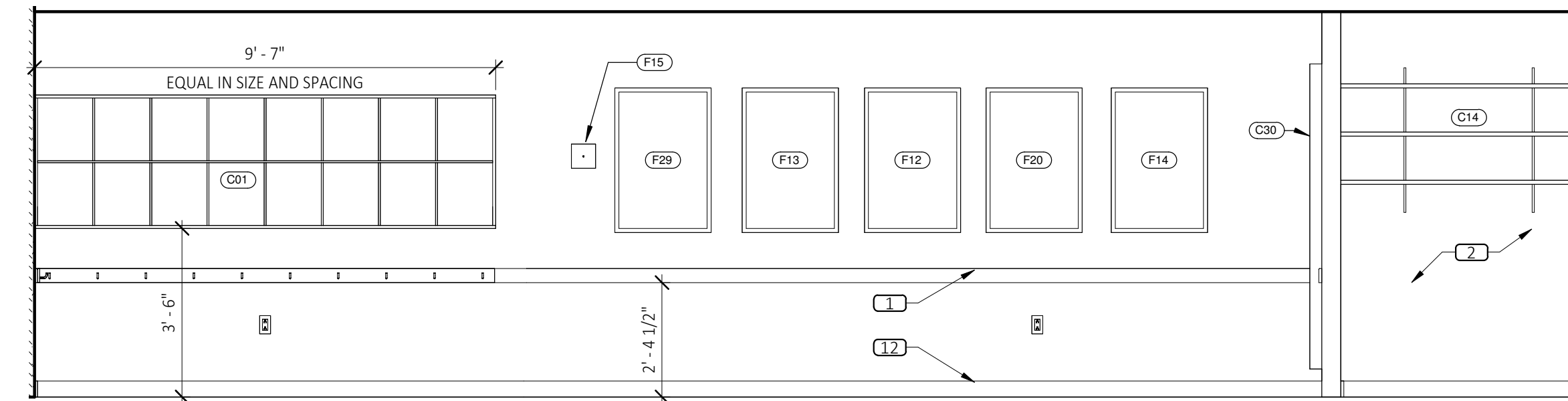
3 CLASSROOM EP1
A5.3 SCALE: 3/8" = 1'-0"



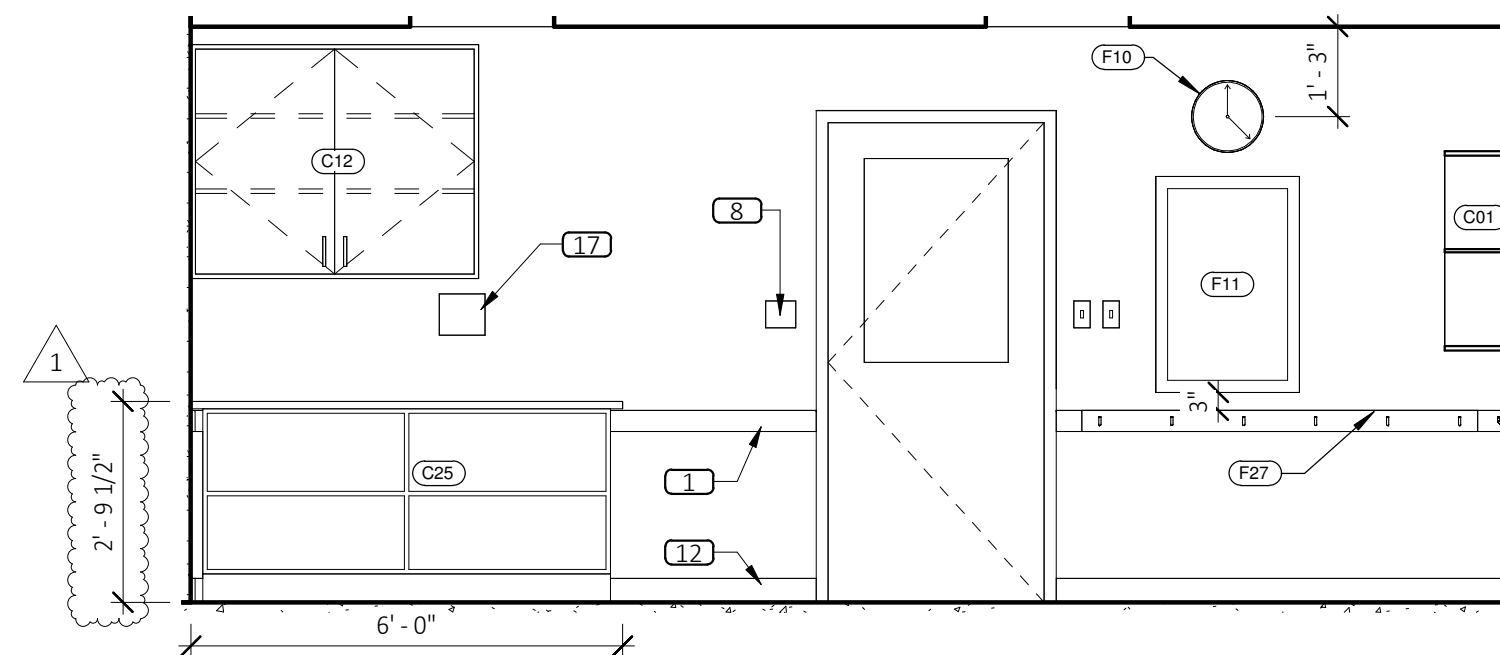
4 CLASSROOM EP1
A5.3 SCALE: 3/8" = 1'-0"



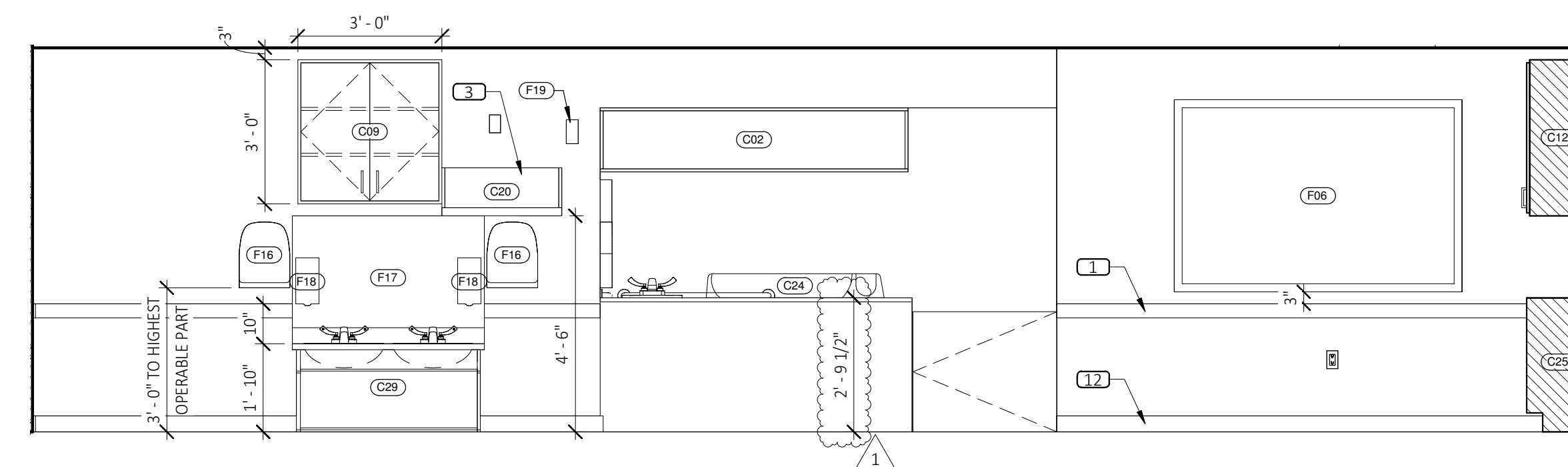
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A5.3 SCALE: 3/8" = 1'-0"



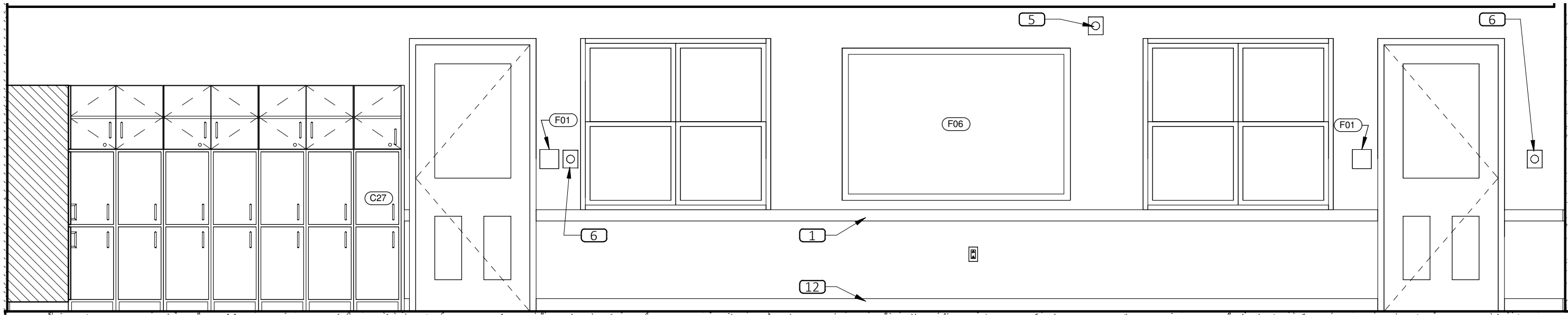
6 CLASSROOM EP2
A5.3 SCALE: 3/8" = 1'-0"



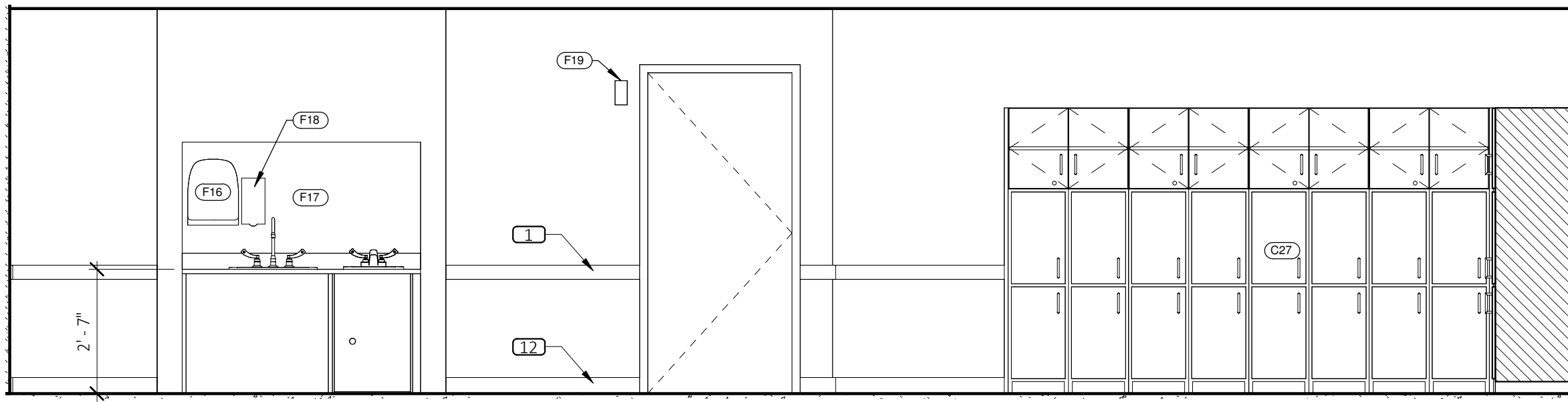
7 CLASSROOM EP2
A5.3 SCALE: 3/8" = 1'-0"



8 CLASSROOM EP2
A5.3 SCALE: 3/8" = 1'-0"



1 CLASSROOM EXP
SCALE: 3/8" = 1'-0"



2 CLASSROOM EXP
SCALE: 3/8" = 1'-0"

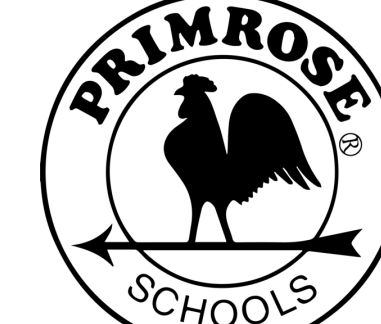
ELEVATION KEYED NOTES

- 1 CHAIR RAIL, SEE FINISH SCHEDULE
- 2 PROVIDE FULL HEIGHT FRP AT COT STORAGE ALCOVE. EXTEND FRP TO END FACE OF WING WALL & TERMINATE W/ J-MOULD (TYP.)
- 3 PROVIDE BLOCKING FOR WOOD SHELF
- 4 1" x 4" SHIP LAP. PROVIDE WOOD BLOCKING IN WALL AS NEEDED.
- 5 FA VISUAL STROBE
- 6 FA PULL STATION
- 7 8" BACK SPLASH
- 8 THERMOSTAT WITH CLEAR LOCKABLE COVER. 48" TO HIGHEST OPERABLE PART, SEE MECHANICAL.
- 9 HOSE BIBB ACCESS PANEL
- 10 MOP SINK
- 11 FRP
- 12 COVE BASE
- 13 COAT HOOKS
- 14 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- 15 TIME CLOCK
- 16 FIRE ALARM ANNUNCIATOR PANEL
- 17 INTERCOM
- 18 MASTER INTERCOM

CASEWORK SCHEDULE

TYPE MARK	ITEM (REFER TO FFE SCHEDULE ON SHEET ID1.0 FOR "F" TAGGED ITEMS)	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY				
C02	CUBBIES ABOVE CHANGE TABLE				
C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED				
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET				
C05	16" DEEP X 1'-6"W X 3'-6"H SURFACE MOUNTED				
C06	16" DEEP X 1'-3"W X 3'-6"H SURFACE MOUNTED				
C07	12" DEEP X 2'-0"W X 2'-0"H WALL CABINET				
C08	12" DEEP X 2'-6"W X 3'-3"H WALL CABINET				
C09	12" DEEP X 3'-0"W X 3'-0"H WALL CABINET				
C10	RECEPTION DESK CABINETS				
C11	30" X 40" CURRICULUM CABINET				
C12	16" DEEP X 4' LONG WALL CABINET				
C13	CAR SEAT STORAGE SHELVING				
C14	24"D x 36"L ADJ. WD SHELVES W/ 1'-6" L STANDARDS				
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS				
C16	12" DEEP X 3'-0"W X 3'-0"H SURFACE MOUNTED				
C17	8" DEEP X 2'-6"W X 3'-0"H SEMI-RECESSED				
C18	STORAGE ROOM SHELVING				
C19	PAPER ROLL HOLDER				
C20	12" DEEP X 2'-6" LONG WOOD SHELF				
C21	8" DEEP X 2'-6"W X 3'-0"H SURFACE MOUNTED				
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS				
C23	KITCHENETTE BASE CABINETS				
C24	BABY CHANGING TABLE (SNEEZE GAURDS ONLY OCCUR AT POTTY PODS OR AT CHANGING TABLES THAT ARE NOT AGAINST A WALL)				
C25	"PUT DOWN" COUNTER				
C26	MOBILE INFANT PARTITION, SEE DETAIL 9/A2.4				
C27	LOCKERS, SEE ELEVATIONS				
C28	SINGLE LAVATORY				
C29	DOUBLE LAVATORY				
C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				
C31	LAUNDRY ROOM STORAGE SHELVING				
C32	16" DEEP X 3'-0"W X 3'-6"H SURFACED MOUNTED				

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



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Date

Description

No.

CONSTR. DOC. & REVISIONS

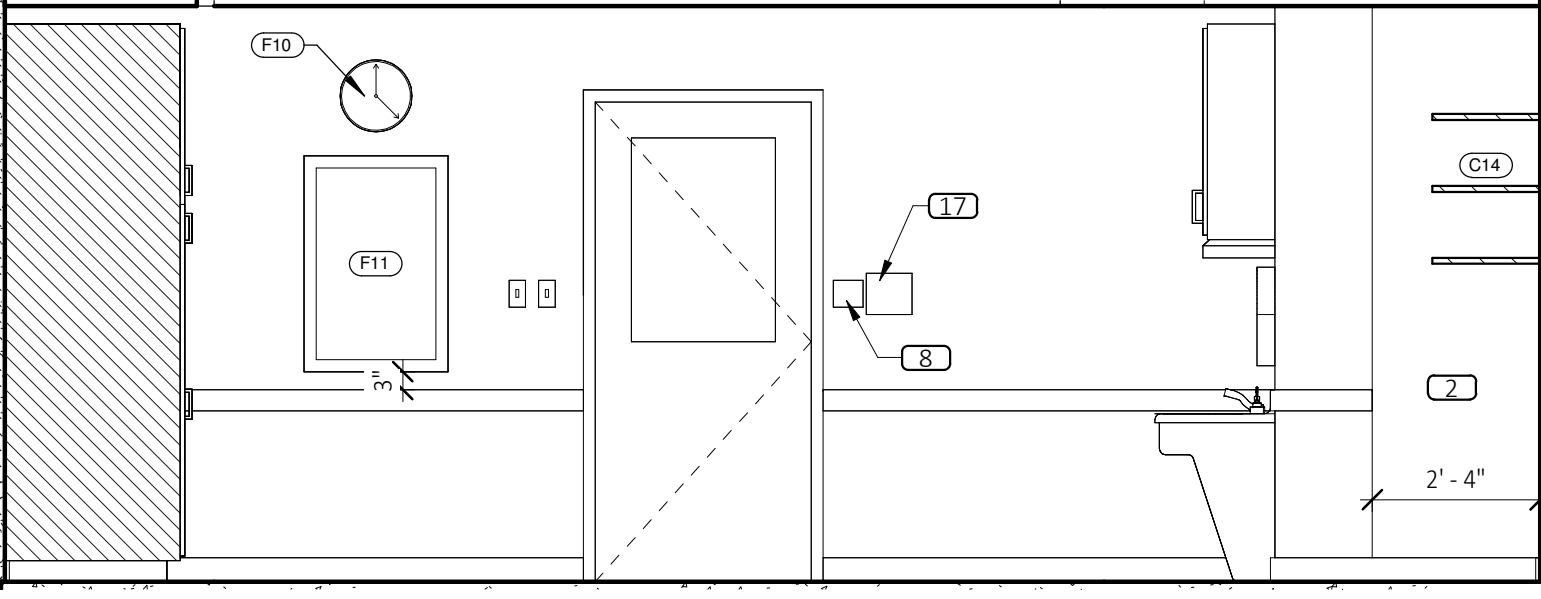
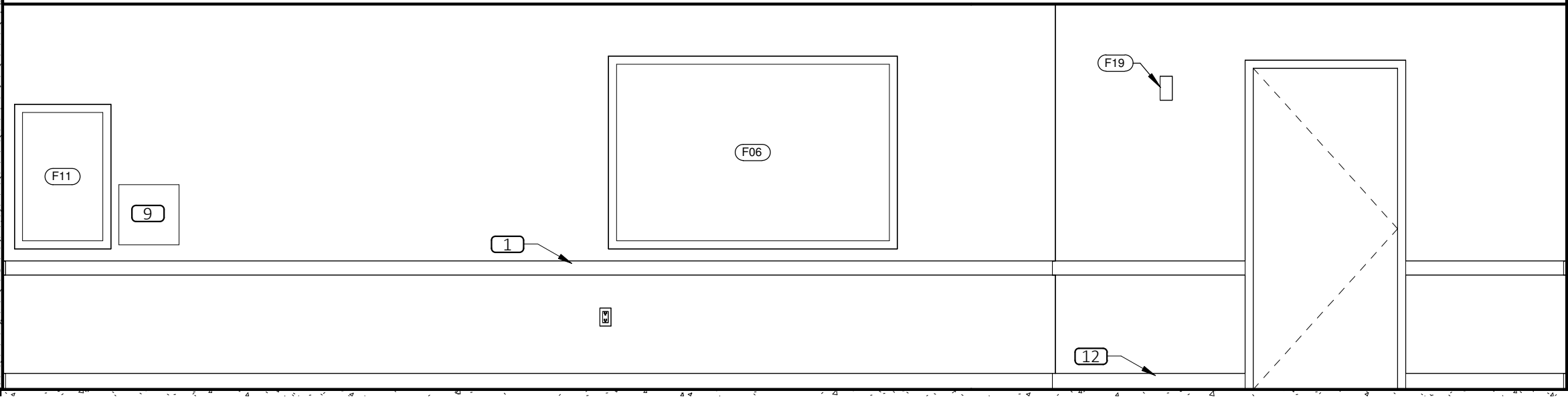
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Description

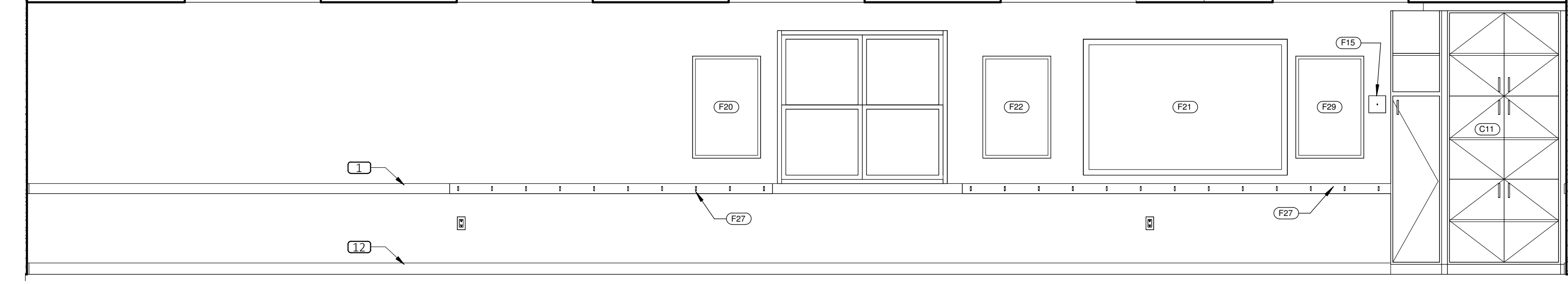
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CONSTR. DOC. & REVISIONS

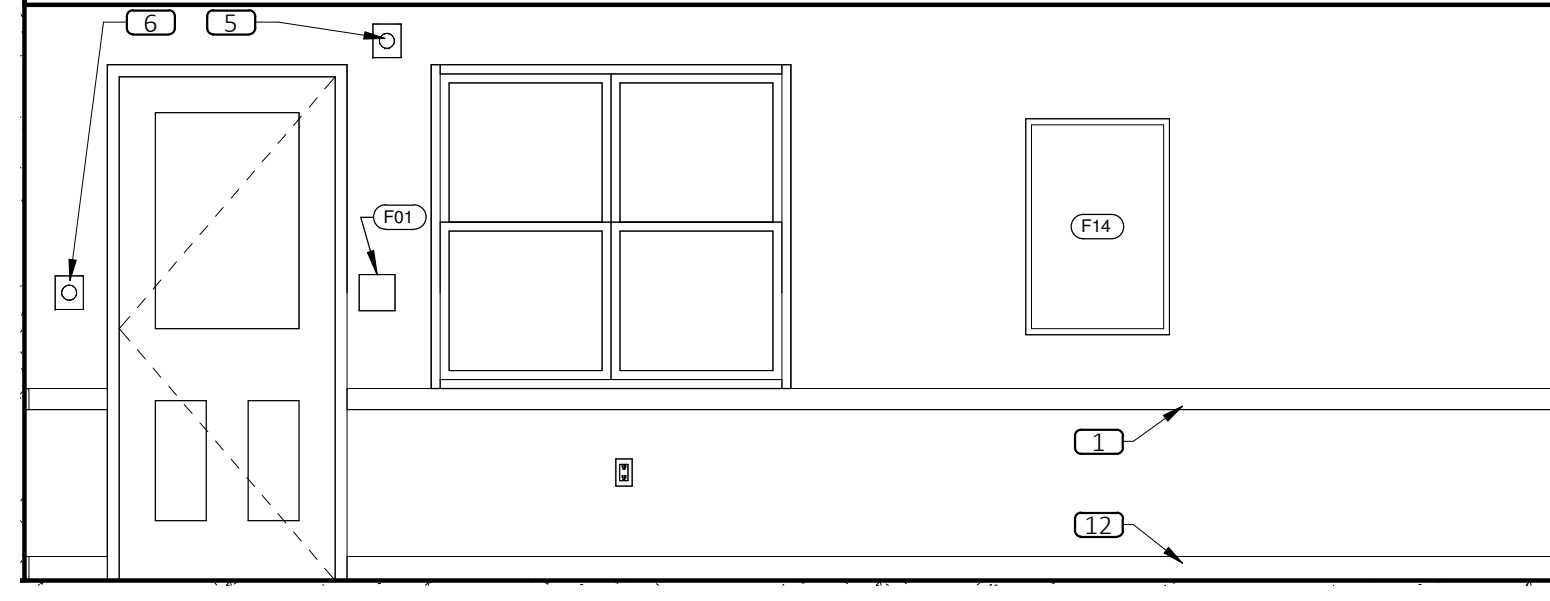
3 CLASSROOM EXP
SCALE: 3/8" = 1'-0"



4 CLASSROOM EXP
SCALE: 3/8" = 1'-0"

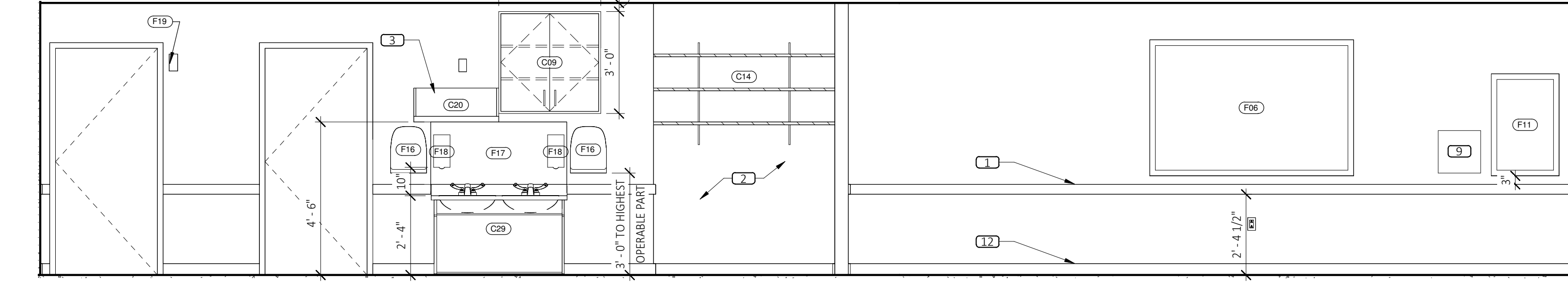


5 CLASSROOM D2
SCALE: 3/8" = 1'-0"

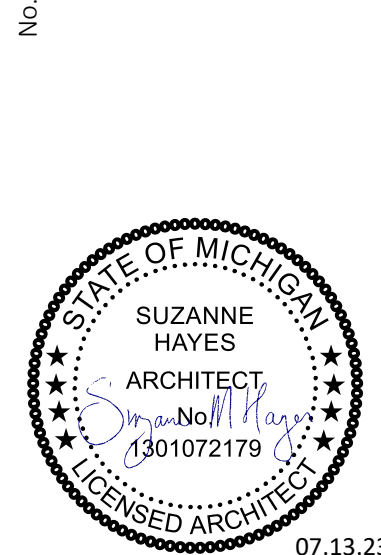


6 CLASSROOM D2
SCALE: 3/8" = 1'-0"

7 CLASSROOM D2
SCALE: 3/8" = 1'-0"



8 CLASSROOM D2
SCALE: 3/8" = 1'-0"



Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

Drawn/Checked DSC / ALA
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

INTERIOR
ELEVATIONS

A5.4

ELEVATION KEYED NOTES

- 1 CHAIR RAIL, SEE FINISH SCHEDULE
- 2 PROVIDE FULL HEIGHT FRP AT COT STORAGE ALCOVE. EXTEND FRP TO END FACE OF WING WALL & TERMINATE W/ J-MOULD (TYP.)
- 3 PROVIDE BLOCKING FOR WOOD SHELF
- 4 1" x 4" SHIP LAP. PROVIDE WOOD BLOCKING IN WALL AS NEEDED.
- 5 FA VISUAL STROBE
- 6 FA PULL STATION
- 7 8" BACK SPLASH
- 8 THERMOSTAT WITH CLEAR LOCKABLE COVER. .48" TO HIGHEST OPERABLE PART, SEE MECHANICAL.
- 9 HOSE BIBB ACCESS PANEL
- 10 MOP SINK
- 11 FRP
- 12 COVE BASE
- 13 COAT HOOKS
- 14 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- 15 TIME CLOCK
- 16 FIRE ALARM ANNUCIATOR PANEL
- 17 INTERCOM

CASEWORK SCHEDULE

TYPE MARK	ITEM (REFER TO FFE SCHEDULE ON SHEET ID1.0 FOR "F" TAGGED ITEMS)	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY			o	o
C02	CUBBIES ABOVE CHANGE TABLE			o	o
C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED			o	o
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET			o	o
C05	16" DEEP X 1'-6"W X 3'-6"H SURFACE MOUNTED			o	o
C06	16" DEEP X 1'-3"W X 3'-6"T SURFACE MOUNTED			o	o
C07	12" DEEP X 2'-0"W X 2'-0"T WALL CABINET			o	o
C08	12" DEEP X 2'-6"W X 3'-3"T WALL CABINET			o	o
C09	12" DEEP X 3'-0"W X 3'-0"T WALL CABINET			o	o
C10	RECEPTION DESK CABINETS			o	o
C11	30" X 40" CURRICULUM CABINET			o	o
C12	16" DEEP X 4' LONG WALL CABINET			o	o
C13	CAR SEAT STORAGE SHELVING			o	o
C14	24"D x 36"L ADJ. WID SHELVES W/ 1'-6" L STANDARDS			o	o
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS			o	o
C16	12" DEEP X 3'-0"W X 3'-0"T SURFACE MOUNTED			o	o
C17	8" DEEP X 2'-6"W X 3'-0" SEMI- RECESSED			o	o
C18	STORAGE ROOM SHELVING			o	o
C19	PAPER ROLL HOLDER			o	o
C20	12" DEEP X 2'-6" LONG WOOD SHELF			o	o
C21	8" DEEP X 2'-6"W X 3'-0" SURFACE MOUNTED			o	o
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS			o	o
C23	KITCHENETTE BASE CABINETS			o	o
C24	BABY CHANGING TABLE (SNEEZE GAURDS ONLY OCCUR AT POTTY PODS OR AT CHANGING TABLES THAT ARE NOT AGAINST A WALL)			o	o
C25	"PUT DOWN" COUNTER			o	o
C26	MOBILE INFANT PARTITION, SEE DETAIL 9/A2.4			o	o
C27	LOCKERS, SEE ELEVATIONS			o	o
C28	SINGLE LAVATORY			o	o
C29	DOUBLE LAVATORY			o	o
C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)			o	o
C31	LAUNDRY ROOM STORAGE SHELVING			o	o
C32	16" DEEP X 3'-0"W X 3'-6"H SURFACED MOUNTED			o	o

PRIMROSE SCHOOL
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NOVI, MI 48375



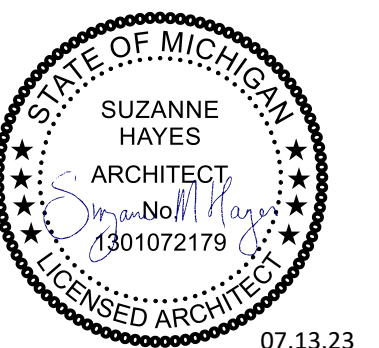
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Date

CONSTR. DOC. & REVISIONS

No.

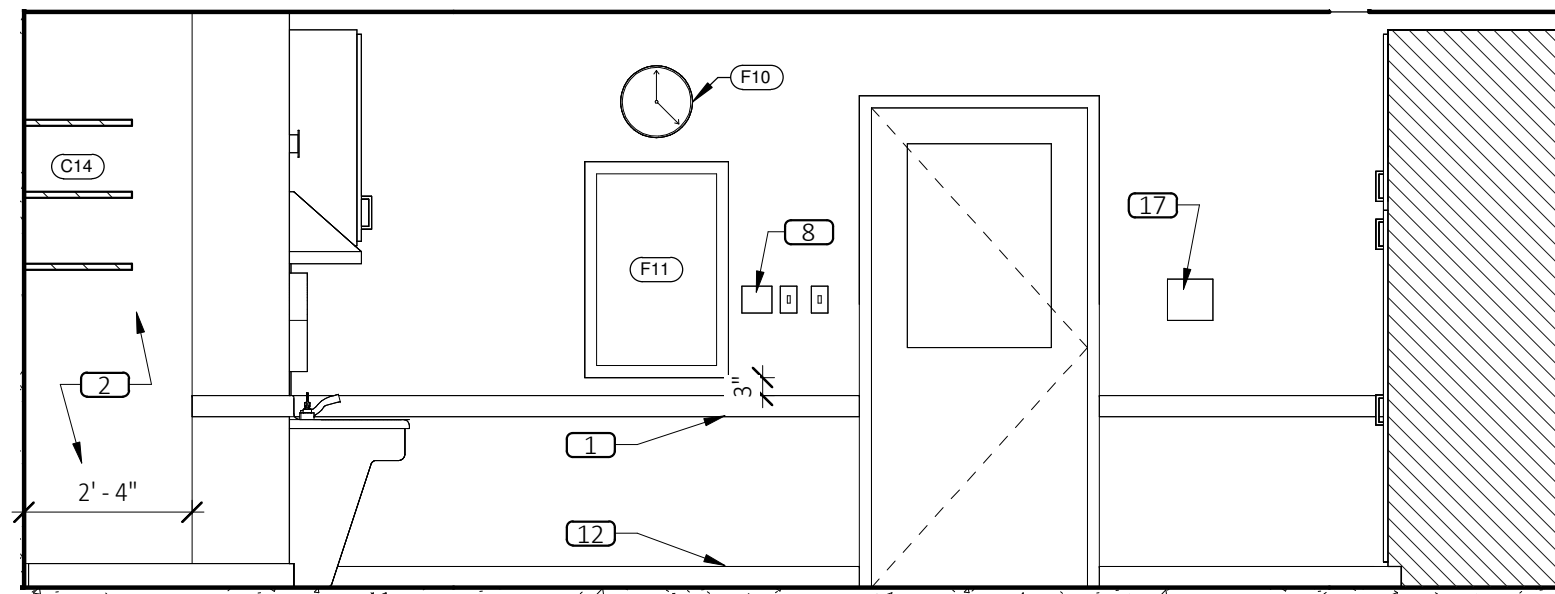


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

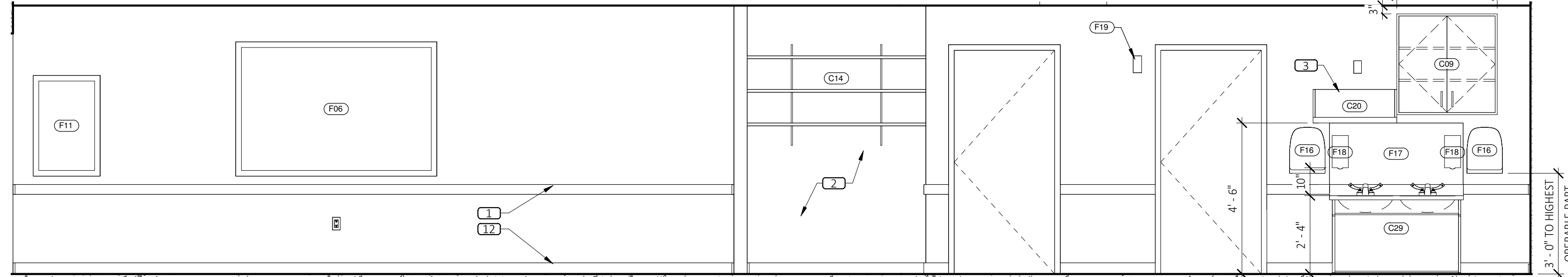
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Project Number 2202640
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For Construction --/--

INTERIOR ELEVATIONS

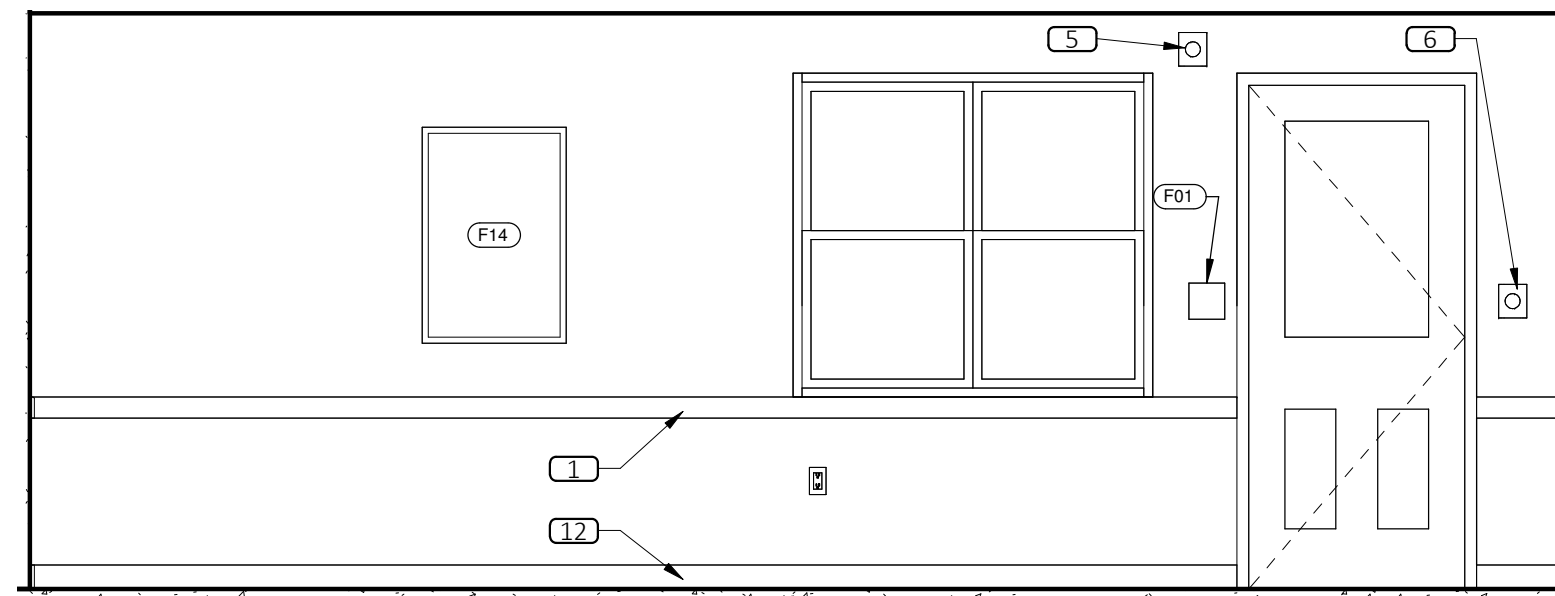
A5.5



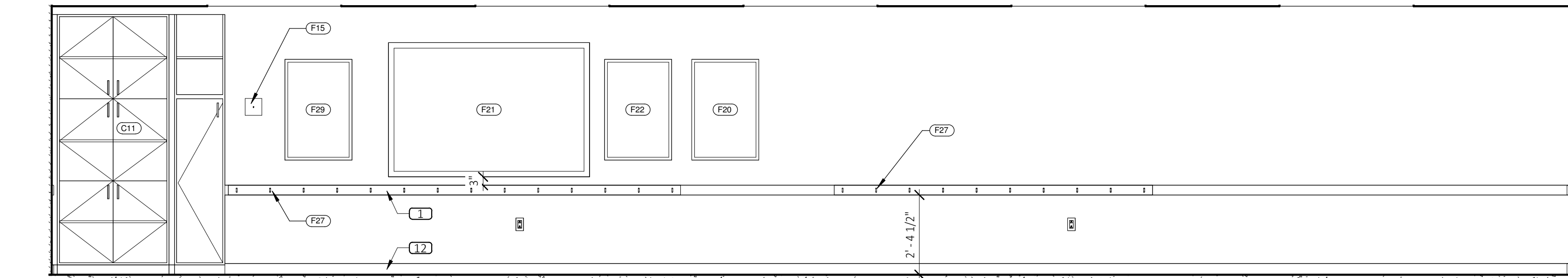
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A5.5 SCALE: 3/8" = 1'-0"



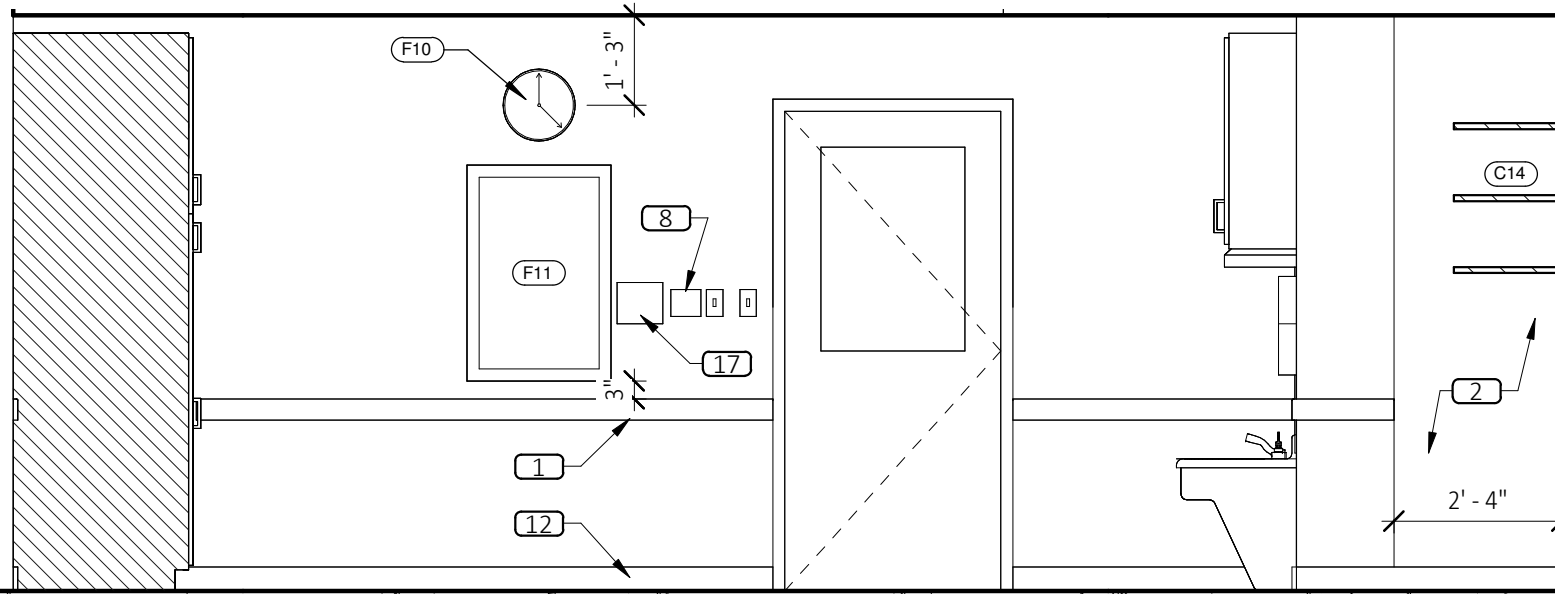
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A5.5 SCALE: 3/8" = 1'-0"



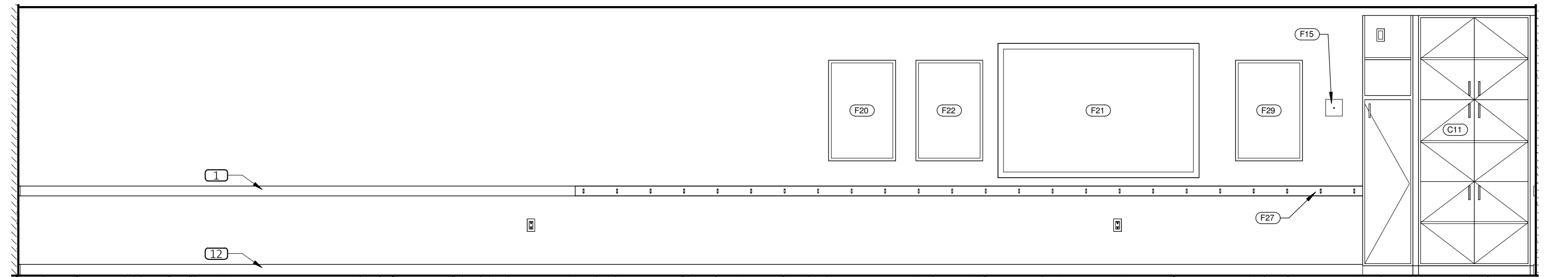
3 CLASSROOM D1
A5.5 SCALE: 3/8" = 1'-0"



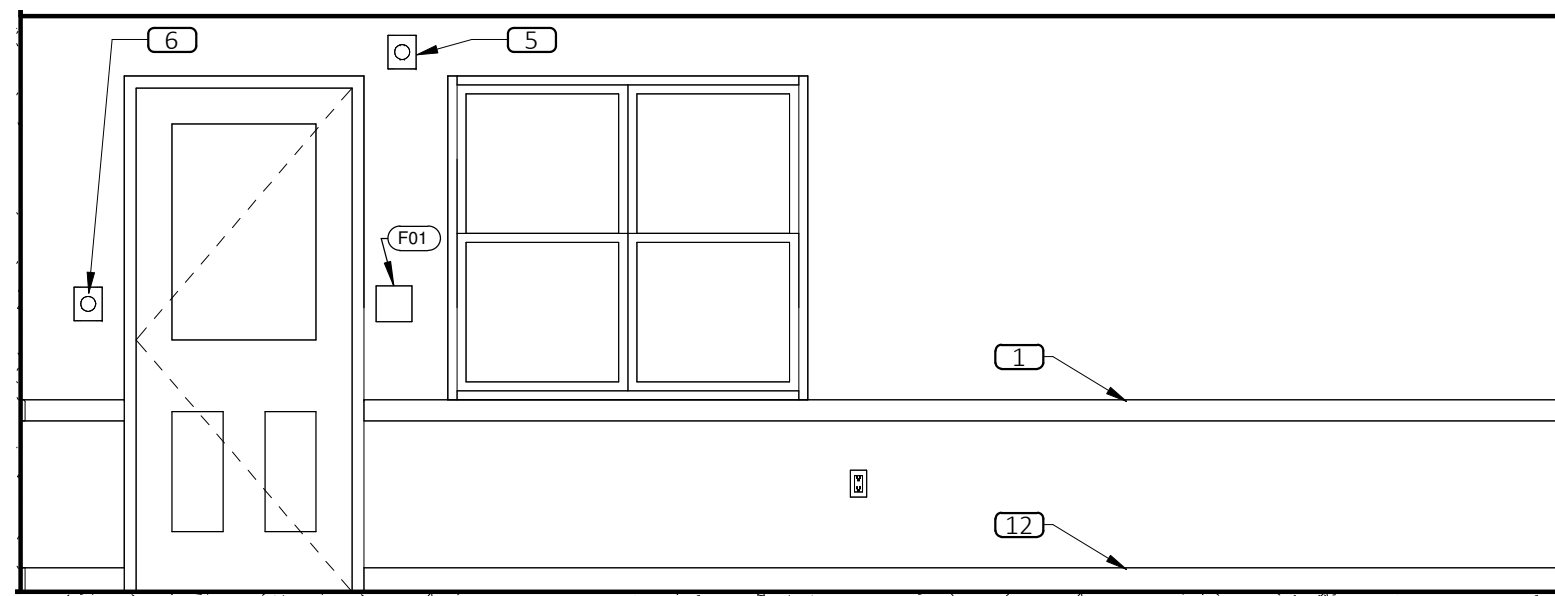
4 CLASSROOM D1
A5.5 SCALE: 3/8" = 1'-0"



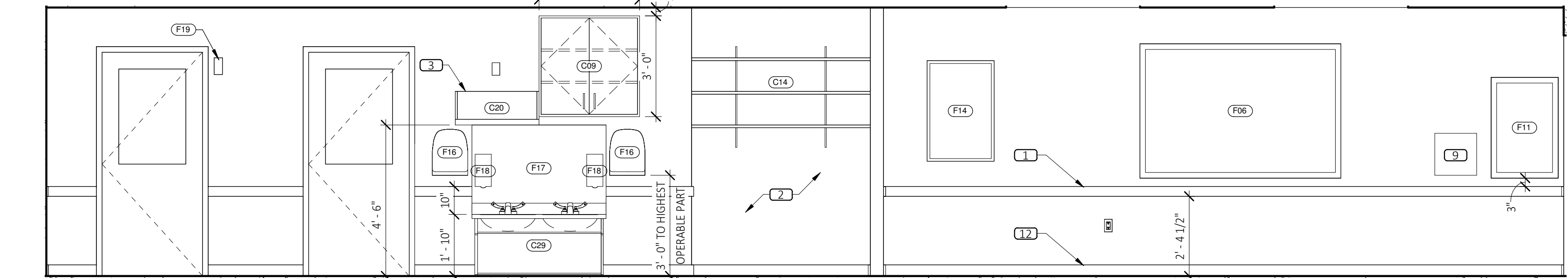
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A5.5 SCALE: 3/8" = 1'-0"



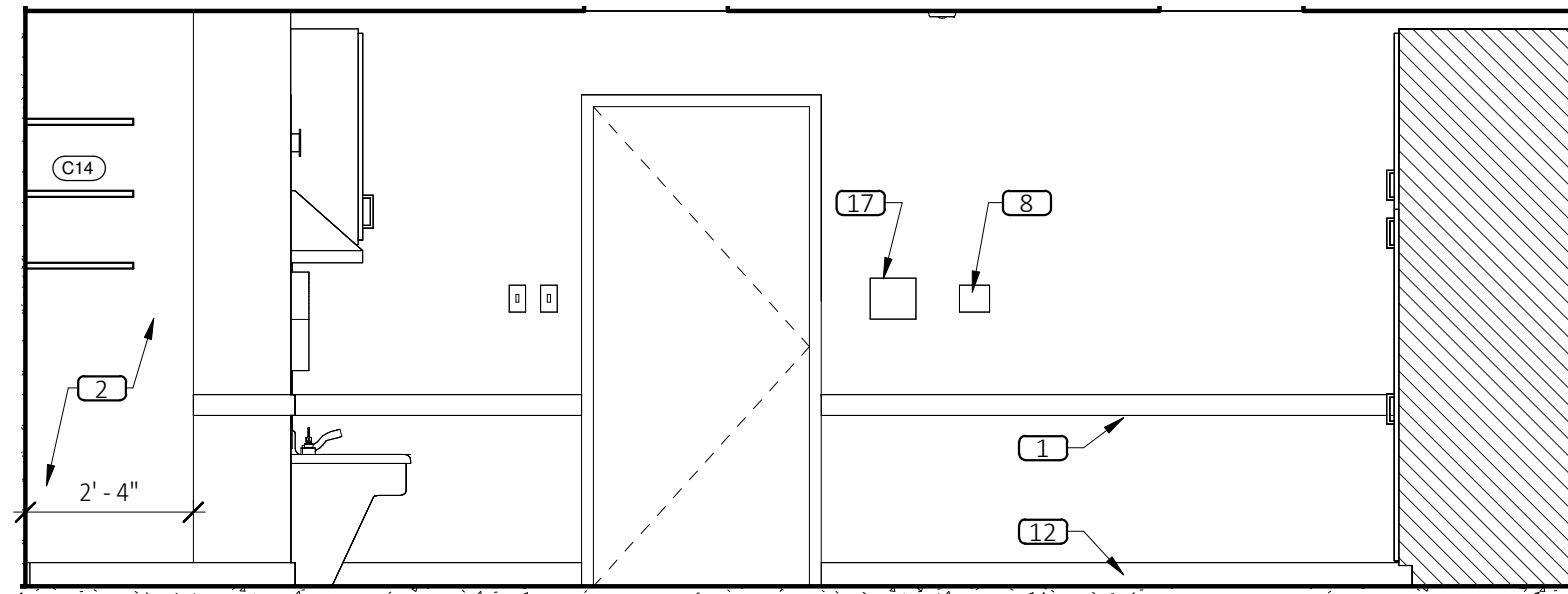
6 CLASSROOM C2
A5.5 SCALE: 3/8" = 1'-0"



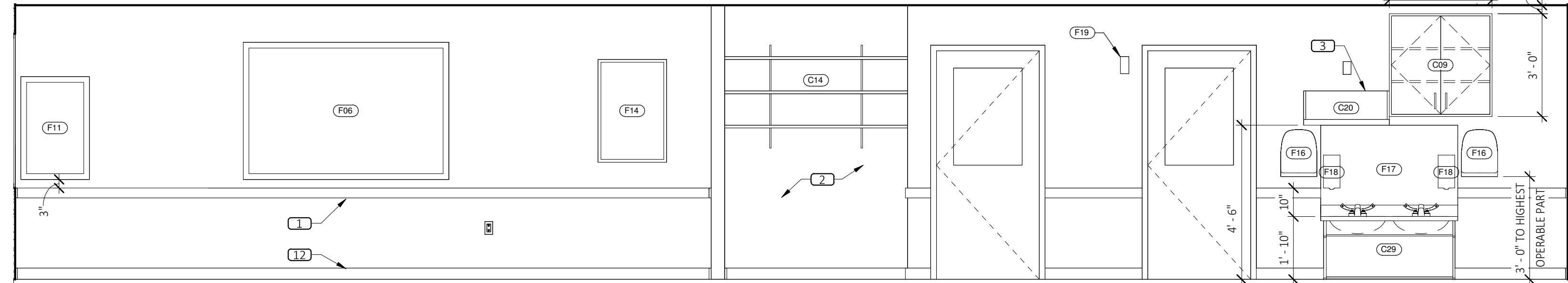
7 CLASSROOM C2
A5.5 SCALE: 3/8" = 1'-0"



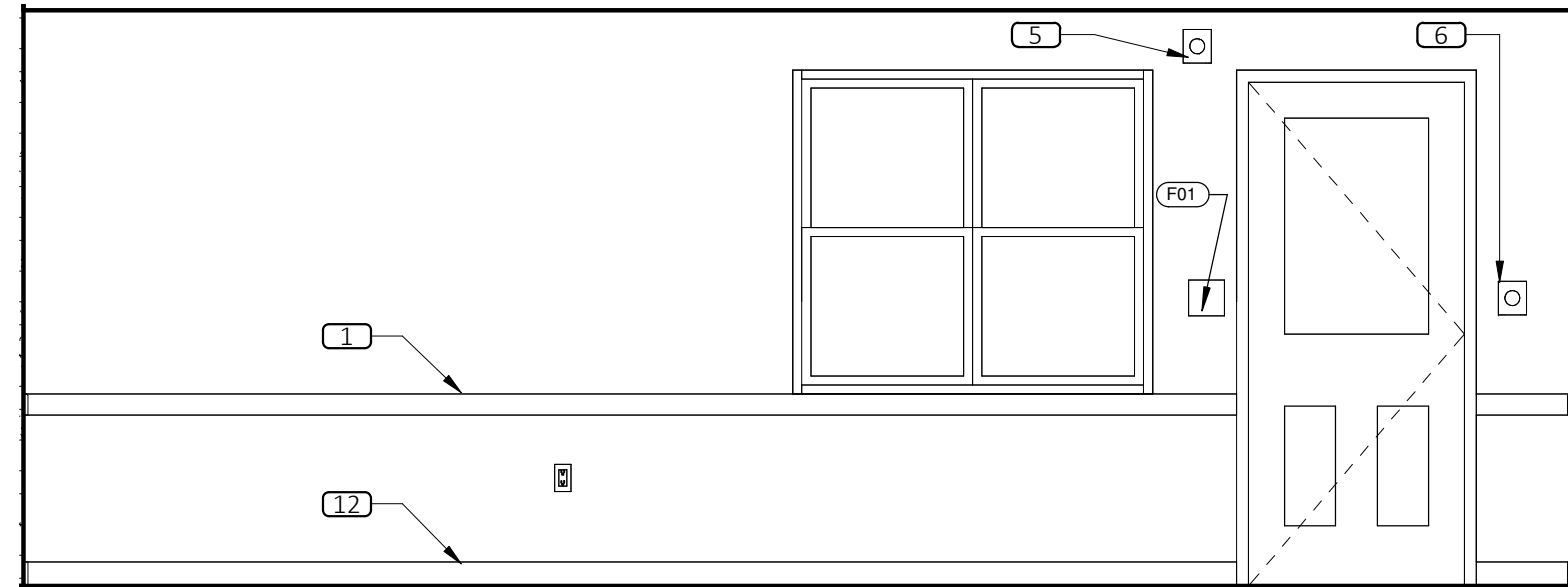
8 CLASSROOM C2
A5.5 SCALE: 3/8" = 1'-0"



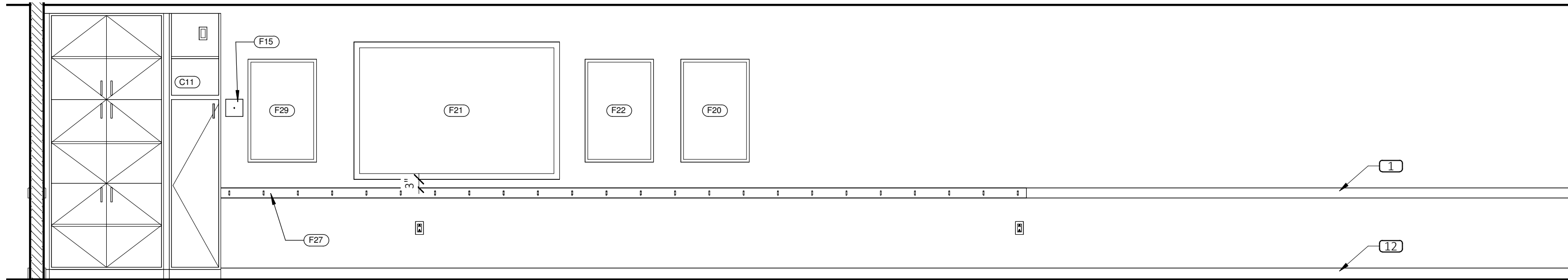
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A5.6 SCALE: 3/8" = 1'-0"



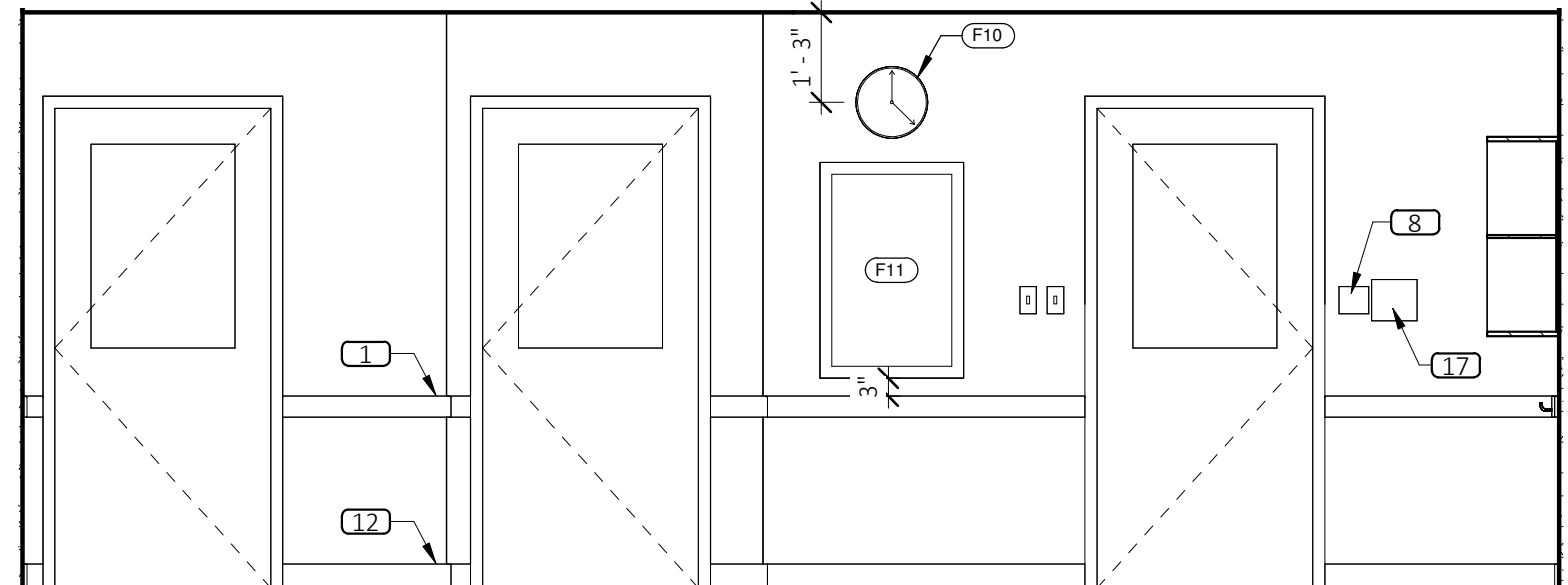
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A5.6 SCALE: 3/8" = 1'-0"



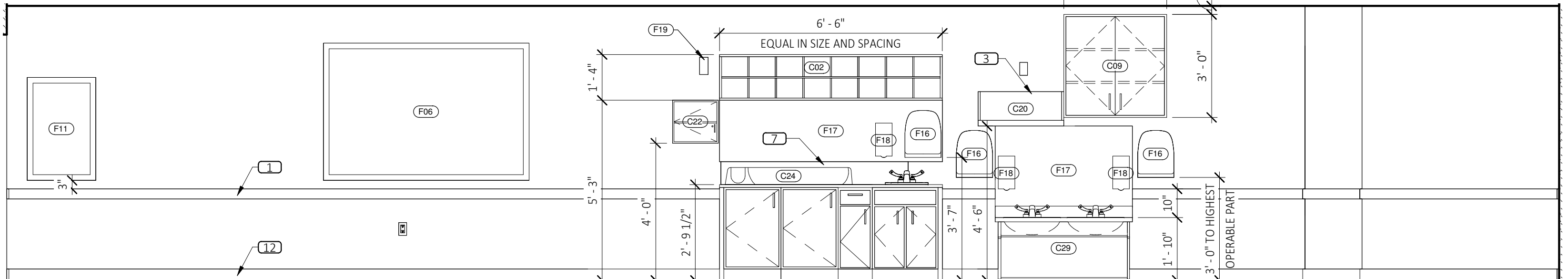
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A5.6 SCALE: 3/8" = 1'-0"



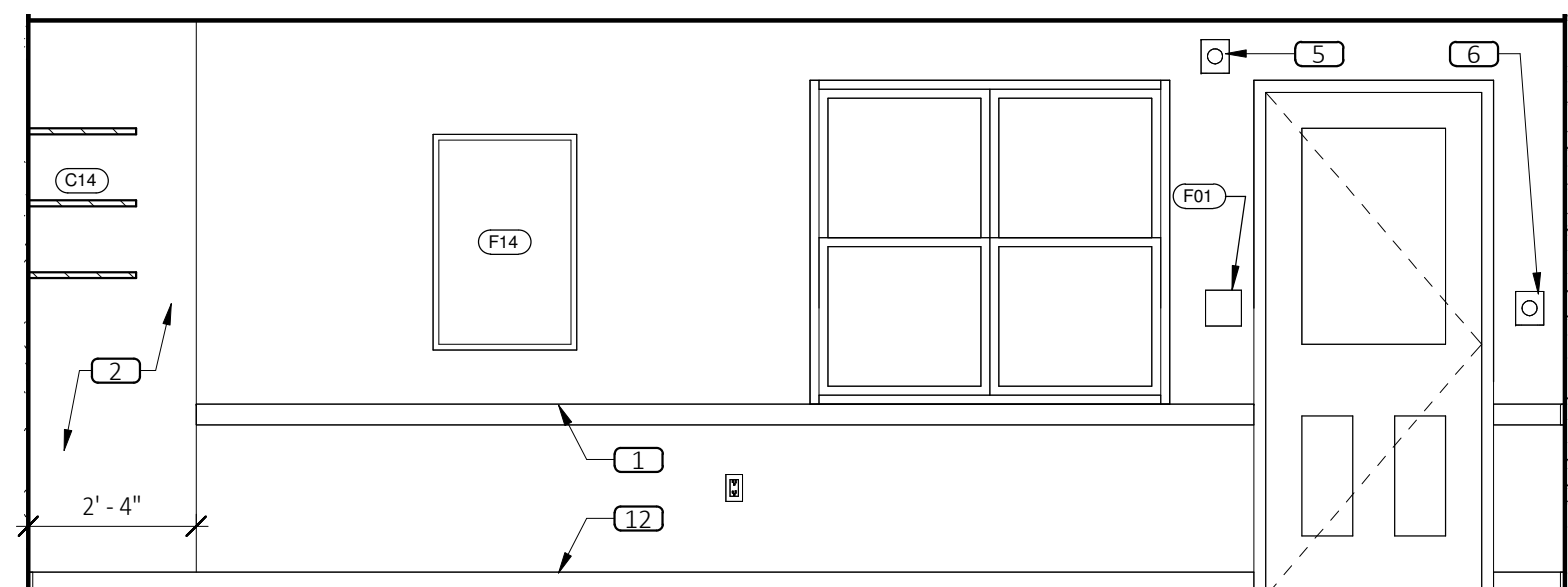
4 CLASSROOM C1
A5.6 SCALE: 3/8" = 1'-0"



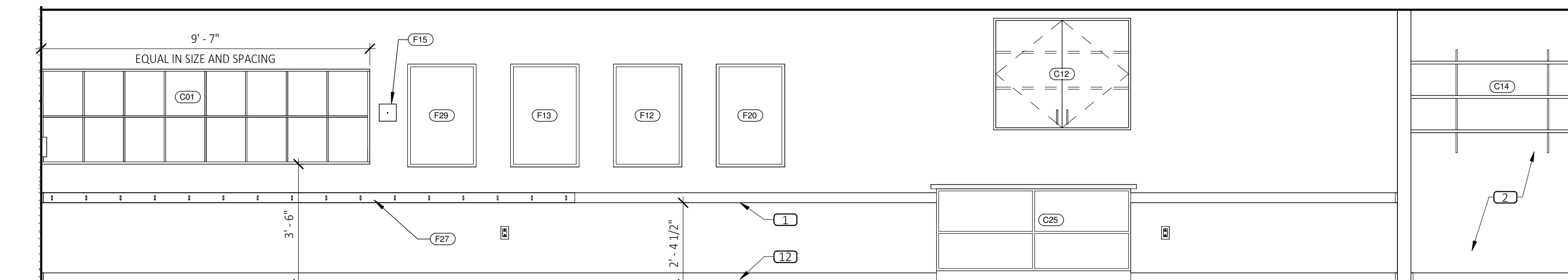
5 PATHWAY
A5.6 SCALE: 3/8" = 1'-0"



6 PATHWAY
A5.6 SCALE: 3/8" = 1'-0"



7 PATHWAY
A5.6 SCALE: 3/8" = 1'-0"



8 PATHWAY
A5.6 SCALE: 3/8" = 1'-0"

ELEVATION KEYED NOTES

- CHAIR RAIL, SEE FINISH SCHEDULE
- PROVIDE FULL HEIGHT FRP AT COT STORAGE ALCOVE. EXTEND FRP TO END FACE OF WING WALL & TERMINATE W/ J-MOULD (TYP.)
- PROVIDE BLOCKING FOR WOOD SHELF
- 1" x 4" SHIP LAP. PROVIDE WOOD BLOCKING IN WALL AS NEEDED.
- FA VISUAL STROBE
- FA PULL STATION
- 8" BACK SPLASH
- THERMOSTAT WITH CLEAR LOCKABLE COVER. .48" TO HIGHEST OPERABLE PART, SEE MECHANICAL
- HOSE BIBB ACCESS PANEL
- MOP SINK
- FRP
- COVE BASE
- COAT HOOKS
- 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- TIME CLOCK
- FIRE ALARM ANUNCIATOR PANEL
- INTERCOM
- MASTER INTERCOM

CASEWORK SCHEDULE

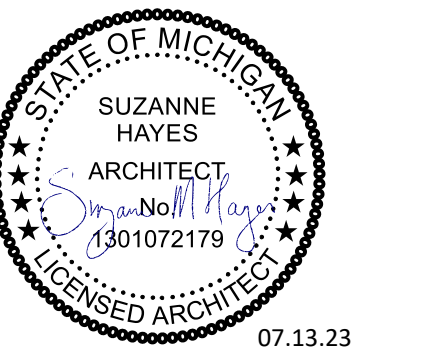
TYPE MARK	ITEM (REFER TO FFE SCHEDULE ON SHEET ID1.0 FOR "F" TAGGED ITEMS)	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY				
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C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED				
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET				
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C09	12" DEEP X 3'-0"W X 3'-0"T WALL CABINET				
C10	RECEPTION DESK CABINETS				
C11	30" X 40" CURRICULUM CABINET				
C12	16" DEEP X 4" LONG WALL CABINET				
C13	CAR SEAT STORAGE SHELVING				
C14	24"D x 36"L ADJ. WD SHELVES W/ 1'-6" L STANDARDS				
C15	18" DEEP ADJUSTABLE WOOD SHELVES, SEE ELEVATIONS				
C16	12" DEEP X 3'-0"W X 3'-0"T SURFACE MOUNTED				
C17	8" DEEP X 2'-6"W X 3'-0" SEMI - RECESSED				
C18	STORAGE ROOM SHELVING				
C19	PAPER ROLL HOLDER				
C20	12" DEEP X 2'-6" LONG WOOD SHELF				
C21	8" DEEP X 2'-6"W X 3'-0" SURFACE MOUNTED				
C22	2'-0"H X 1'-4"W X 6"D DISINFECTANT CABINETS				
C23	KITCHENETTE BASE CABINETS				
C24	BABY CHANGING TABLE (SNEEZE GAURDS ONLY OCCUR AT POTTY PODS OR AT CHANGING TABLES THAT ARE NOT AGAINST A WALL)				
C25	"PUT DOWN" COUNTER				
C26	MOBILE INFANT PARTITION, SEE DETAIL 9/A2.4				
C27	LOCKERS, SEE ELEVATIONS				
C28	SINGLE LAVATORY				
C29	DOUBLE LAVATORY				
C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3. (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				
C31	LAUNDRY ROOM STORAGE SHELVING				
C32	16" DEEP X 3'-0"W X 3'-6"H SURFACED MOUNTED				

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
3200 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640

No.	Description	Date
	CONSTR. DOC. & REVISIONS	

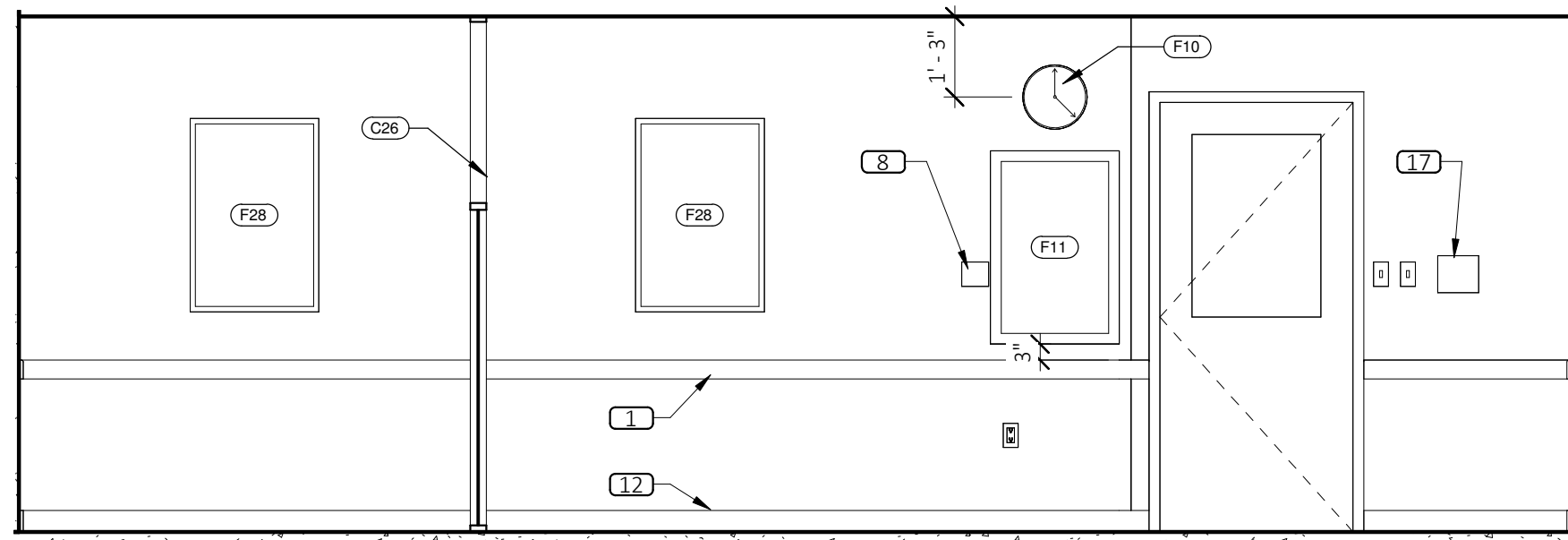


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

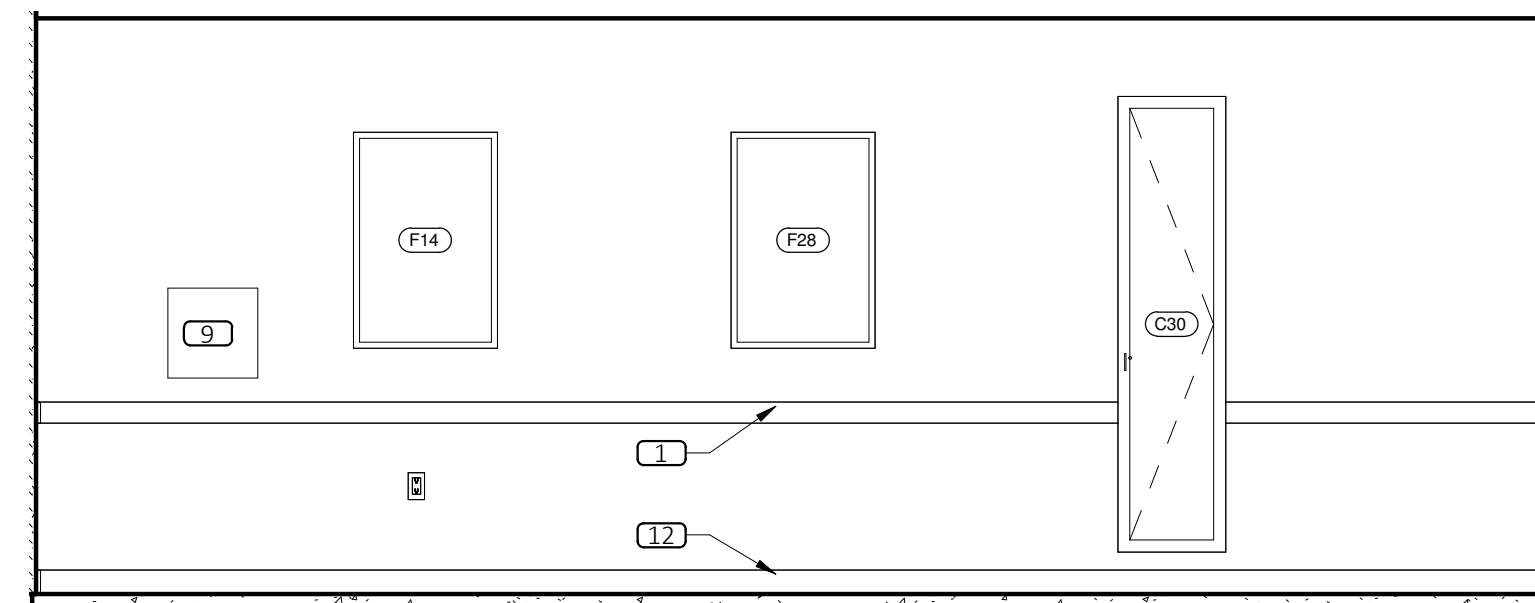
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Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

INTERIOR
ELEVATIONS

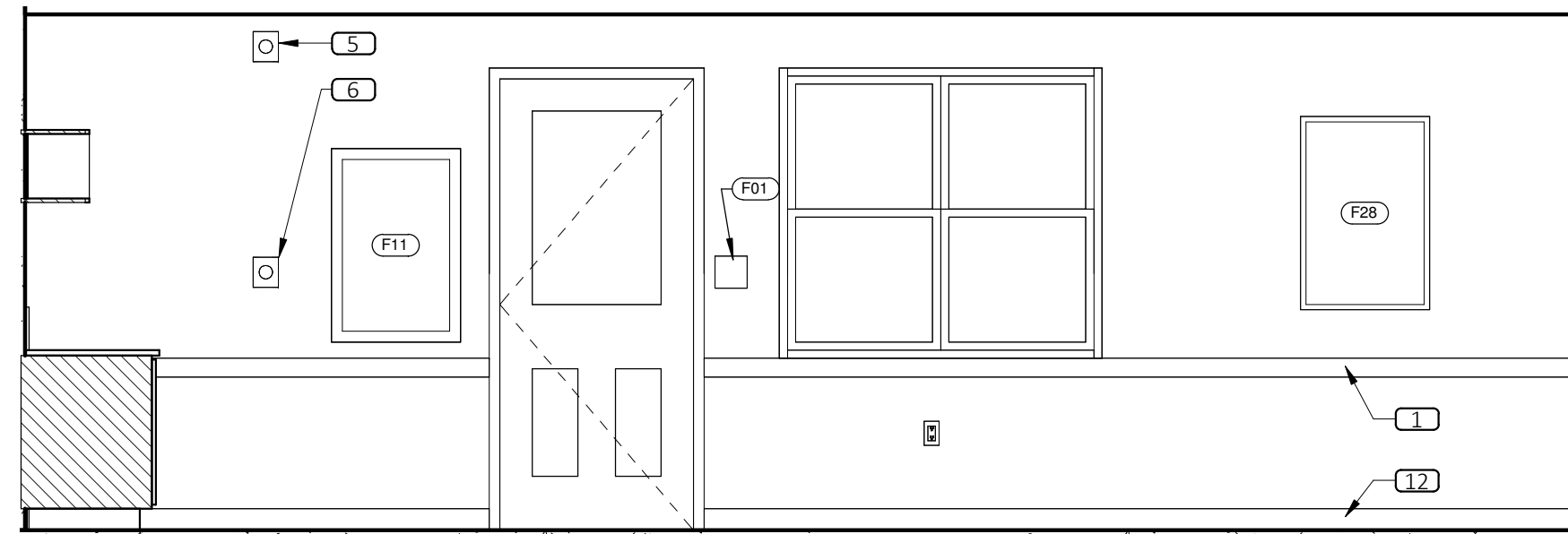
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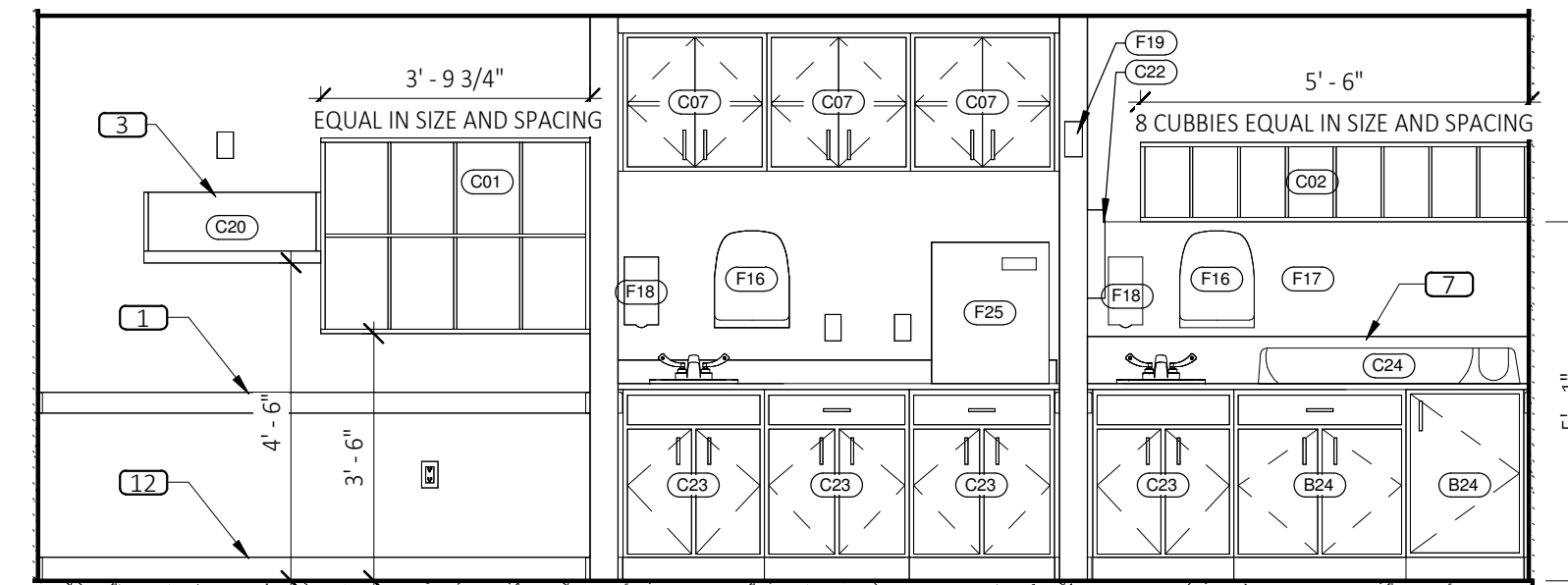
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SCALE: 3/8" = 1'-0"



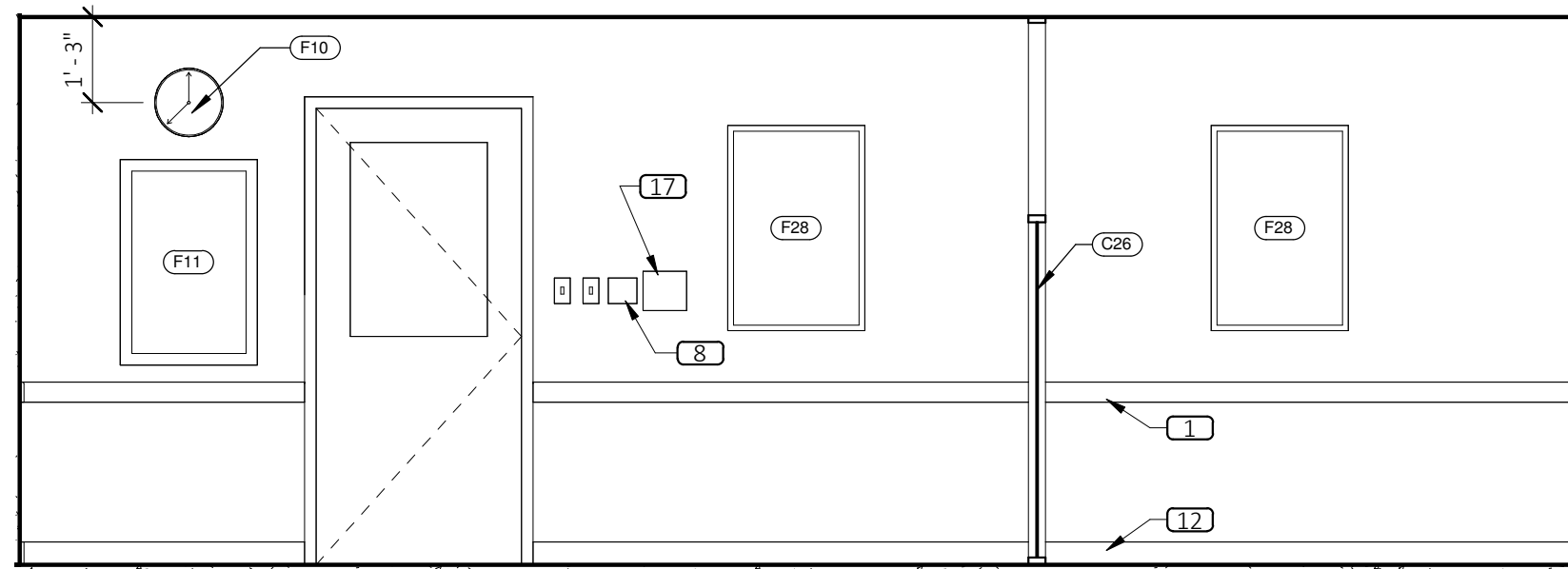
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SCALE: 3/8" = 1'-0"



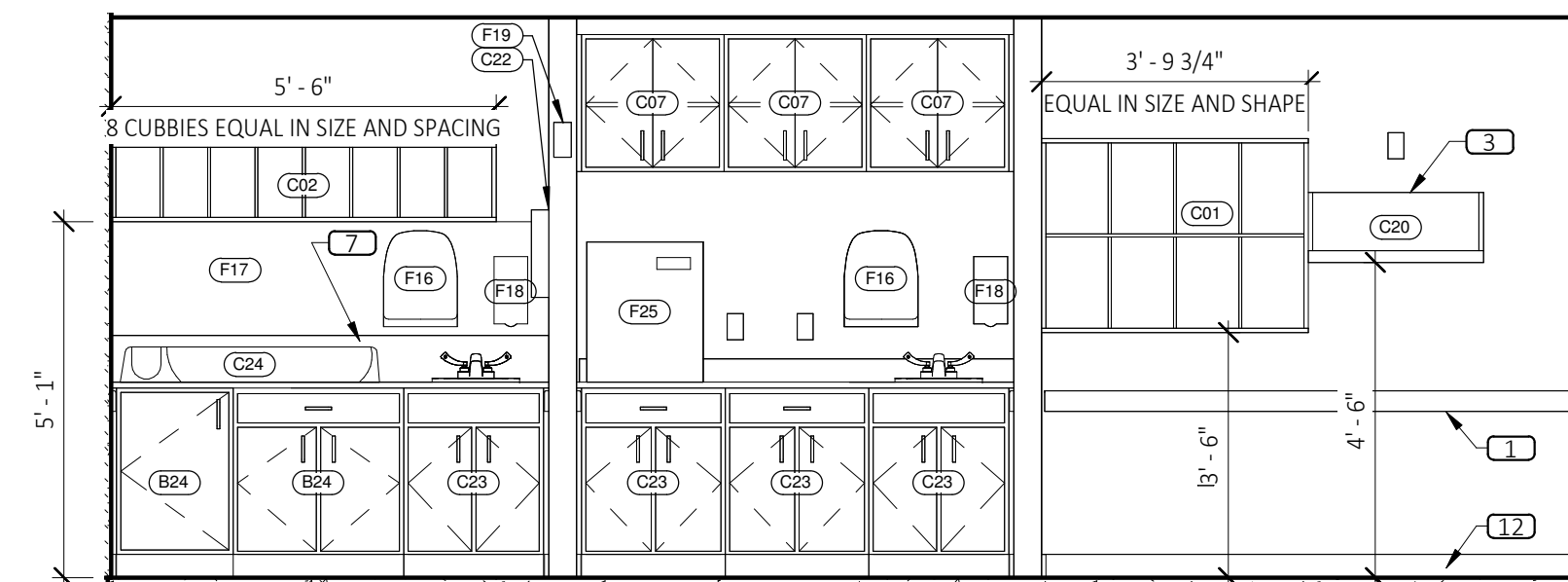
3 CLASSROOM A1
SCALE: 3/8" = 1'-0"



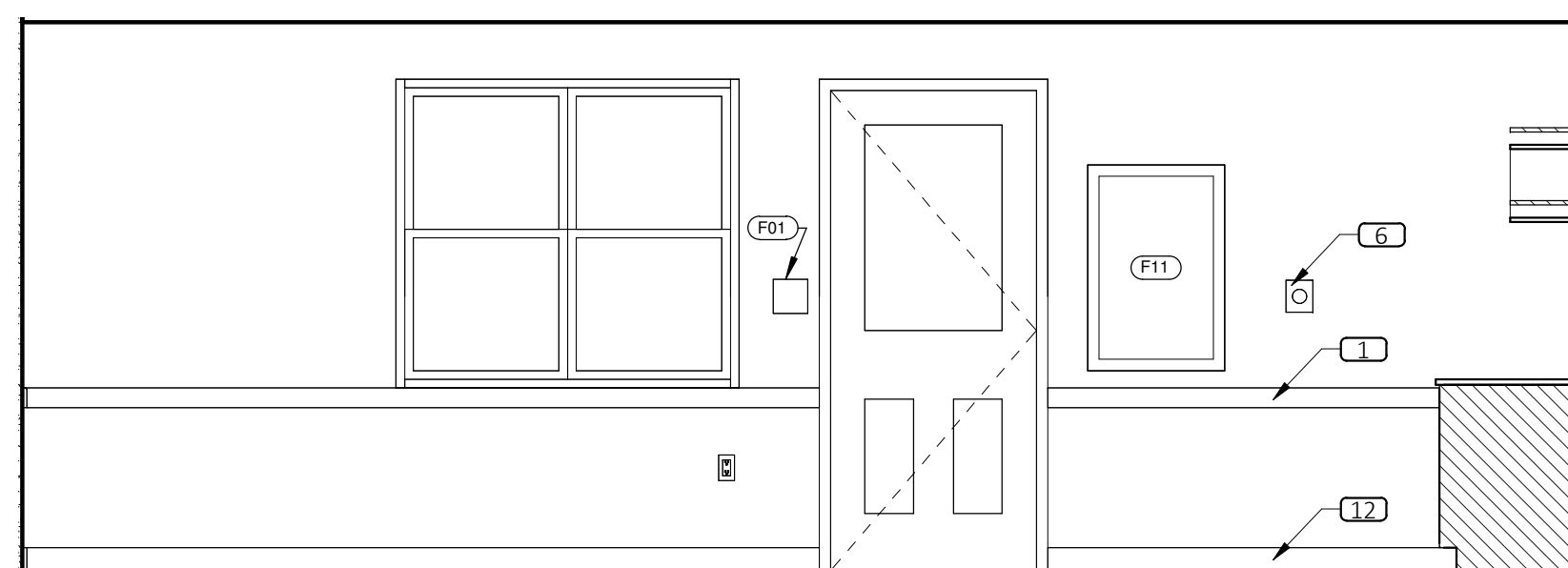
4 CLASSROOM A1
SCALE: 3/8" = 1'-0"



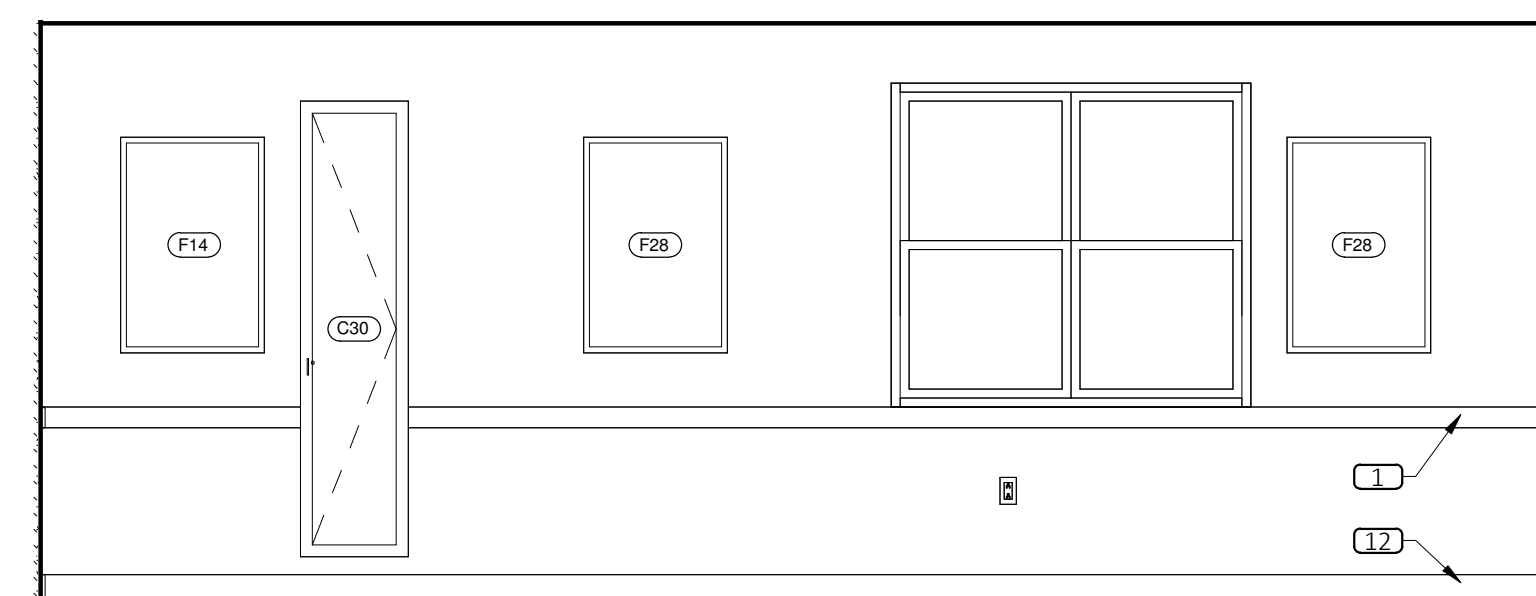
5 CLASSROOM A2
SCALE: 3/8" = 1'-0"



6 CLASSROOM A2
SCALE: 3/8" = 1'-0"



7 CLASSROOM A2
SCALE: 3/8" = 1'-0"



8 CLASSROOM A2
SCALE: 3/8" = 1'-0"

ELEVATION KEY NOTES

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- 2 PROVIDE FULL HEIGHT FRP AT COT STORAGE ALCOVE. EXTEND FRP TO END FACE OF WING WALL & TERMINATE W/ J-MOULD (TYP.)
- 3 PROVIDE BLOCKING FOR WOOD SHELF
- 4 1" x 4" SHIP LAP. PROVIDE WOOD BLOCKING IN WALL AS NEEDED.
- 5 FA VULS STROBE
- 6 FA PULL STATION
- 7 8" BACK SPLASH
- 8 THERMOSTAT WITH CLEAR LOCKABLE COVER. .48" TO HIGHEST OPERABLE PART, SEE MECHANICAL.
- 9 HOSE BIBB ACCESS PANEL
- 10 MOP SINK
- 11 FRP
- 12 COVE BASE
- 13 COAT HOOKS
- 14 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- 15 TIME CLOCK
- 16 FIRE ALARM ANNUNCIATOR PANEL
- 17 INTERCOM
- 18 MASTER INTERCOM

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C01	CUBBIES, SEE ELEVATIONS FOR QUANTITY				
C02	CUBBIES ABOVE CHANGE TABLE				
C03	16" DEEP X 3'-6"W X 3'-6"H SURFACED MOUNTED				
C04	16" DEEP X 3'-0"W X 3'-6"H CORNER CABINET				
C05	16" DEEP X 1'-6"W X 3'-6"H SURFACE MOUNTED				
C06	16" DEEP X 1'-3"W X 3'-6"T SURFACE MOUNTED				
C07	12" DEEP X 2'-0"W X 2'-0"T WALL CABINET				
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C10	RECEPTION DESK CABINETS				
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C12	16" DEEP X 4' LONG WALL CABINET				
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C30	RECESSED BROOM CLOSET, SEE DETAIL 19/A2.3 (OPTIONAL - CHECK WITH OWNER PRIOR TO ORDERING)				
C31	LAUNDRY ROOM STORAGE SHELVING				
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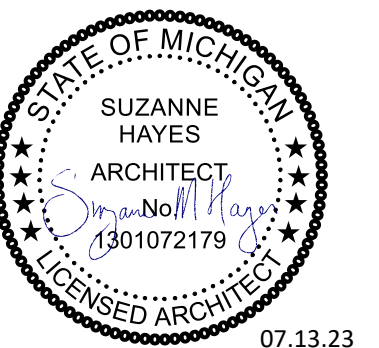
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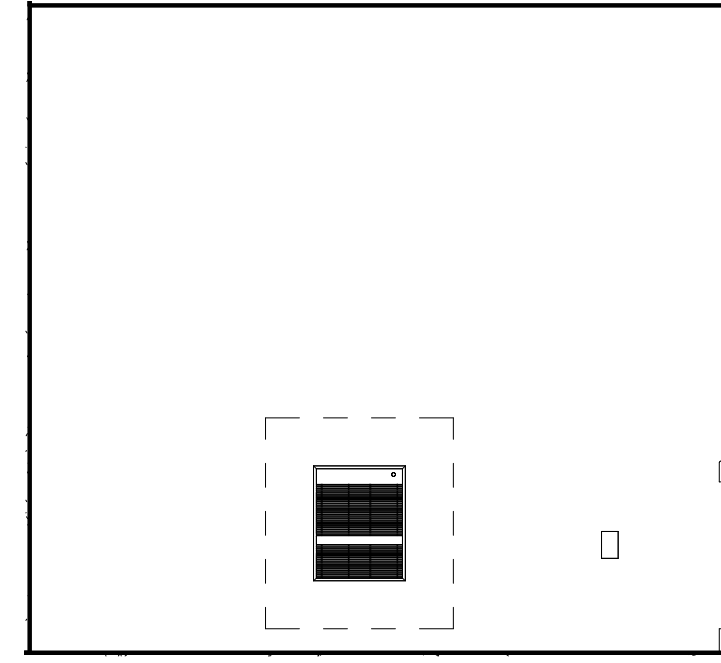


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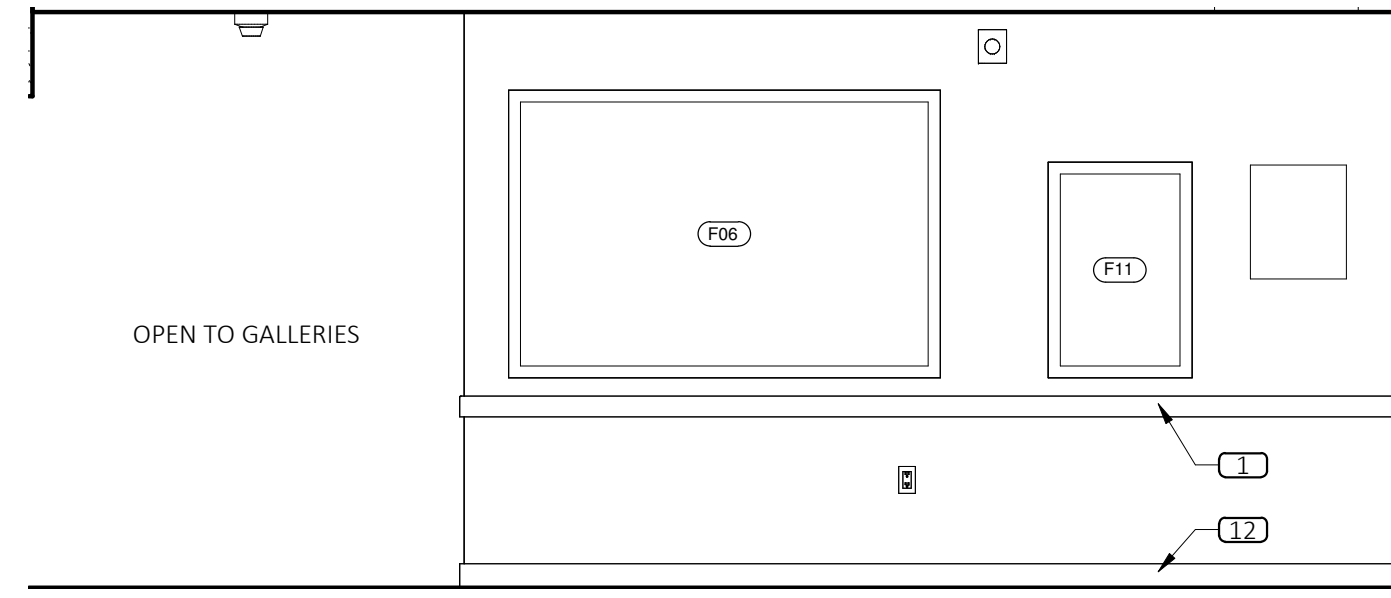
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INTERIOR
ELEVATIONS

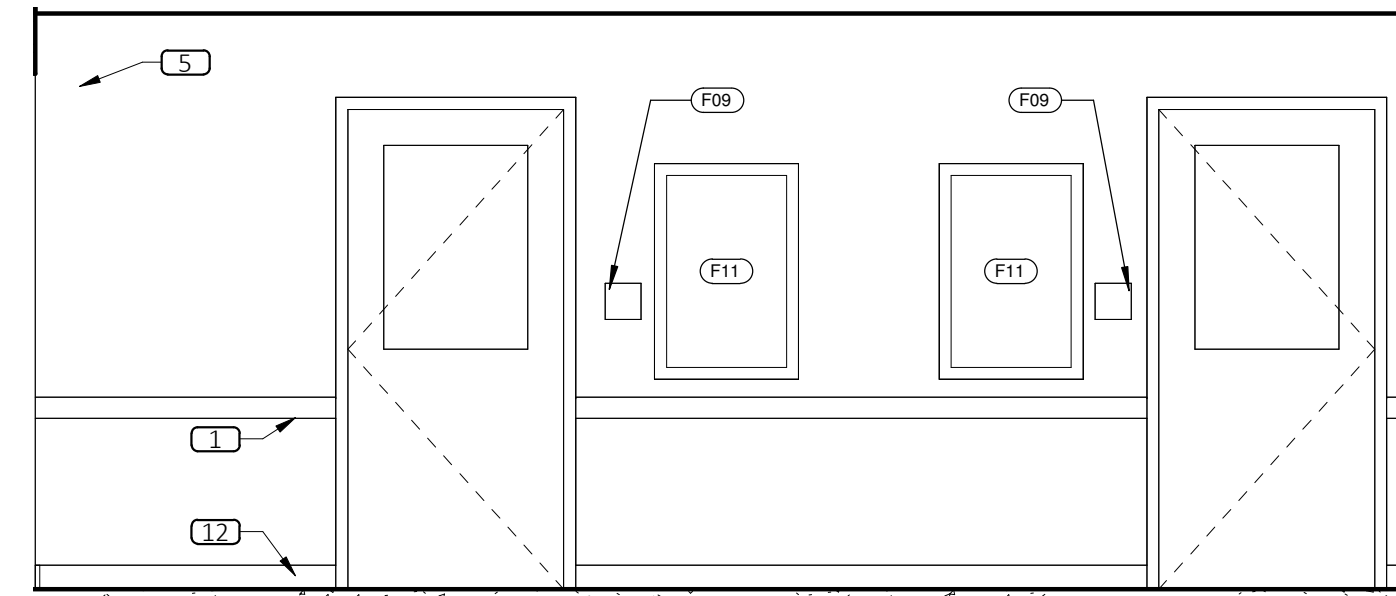
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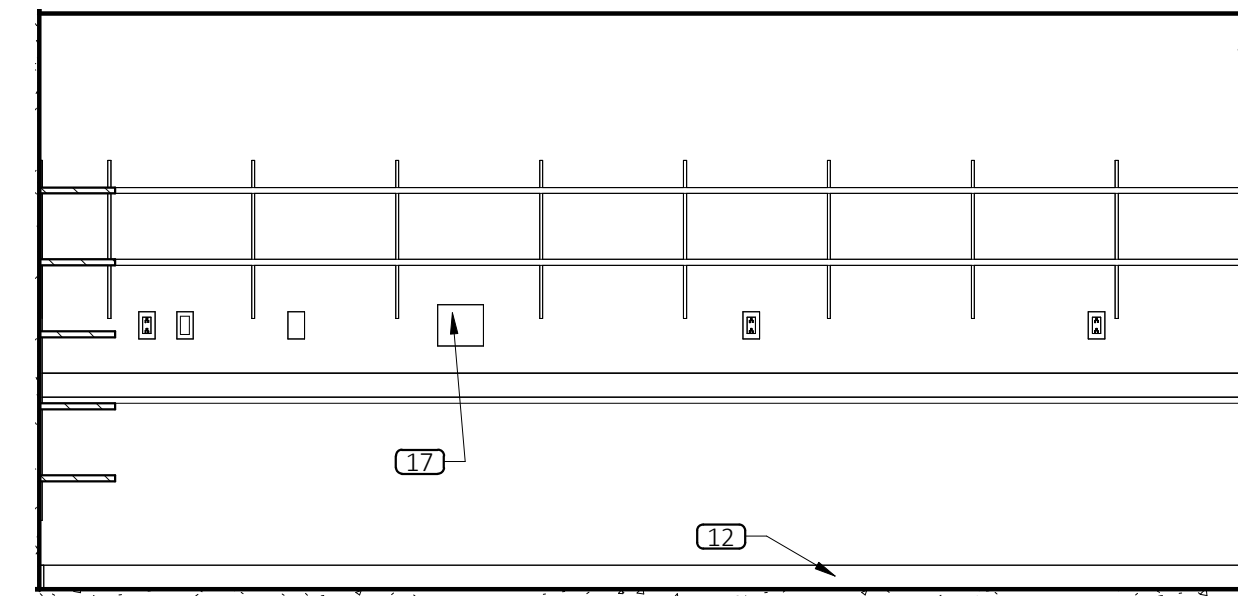
1 FIRE RISER ROOM
A5.8 SCALE: 3/8" = 1'-0"



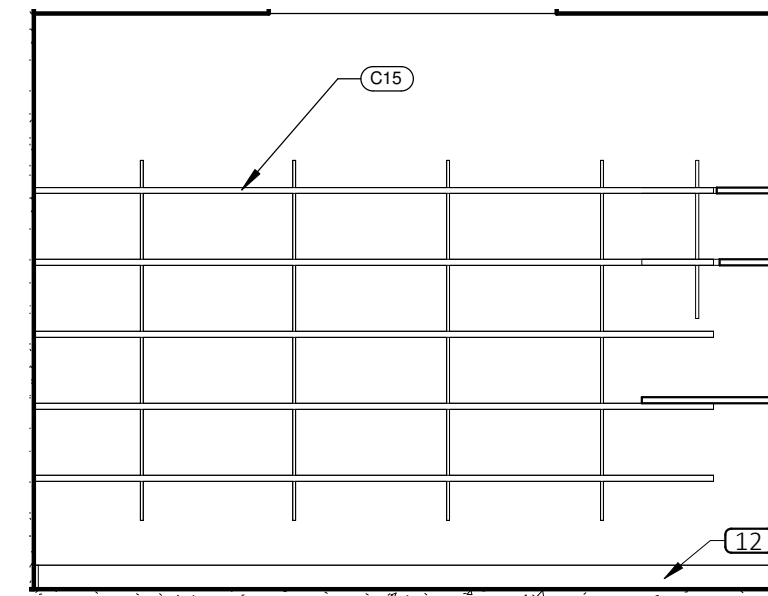
2 GALLERY 3
A5.8 SCALE: 3/8" = 1'-0"



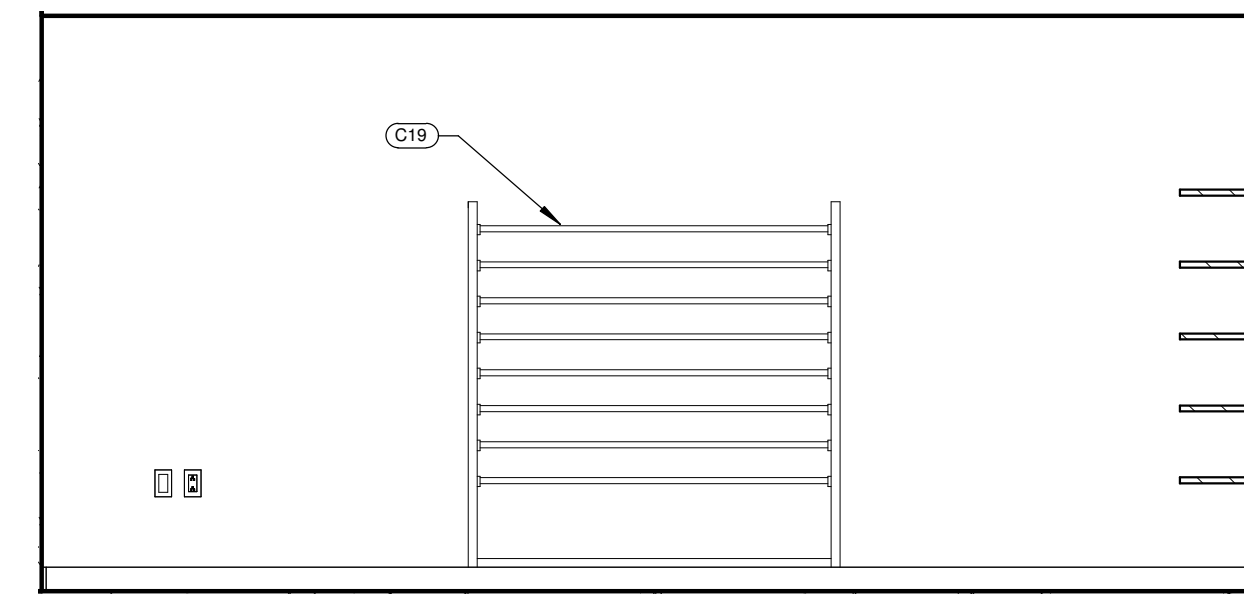
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A5.8 SCALE: 3/8" = 1'-0"



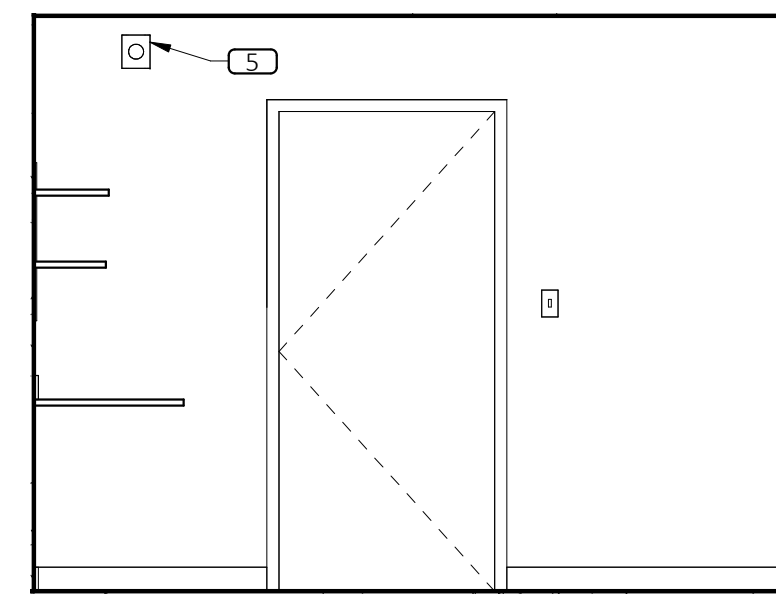
4 RESOURCE
A5.8 SCALE: 3/8" = 1'-0"



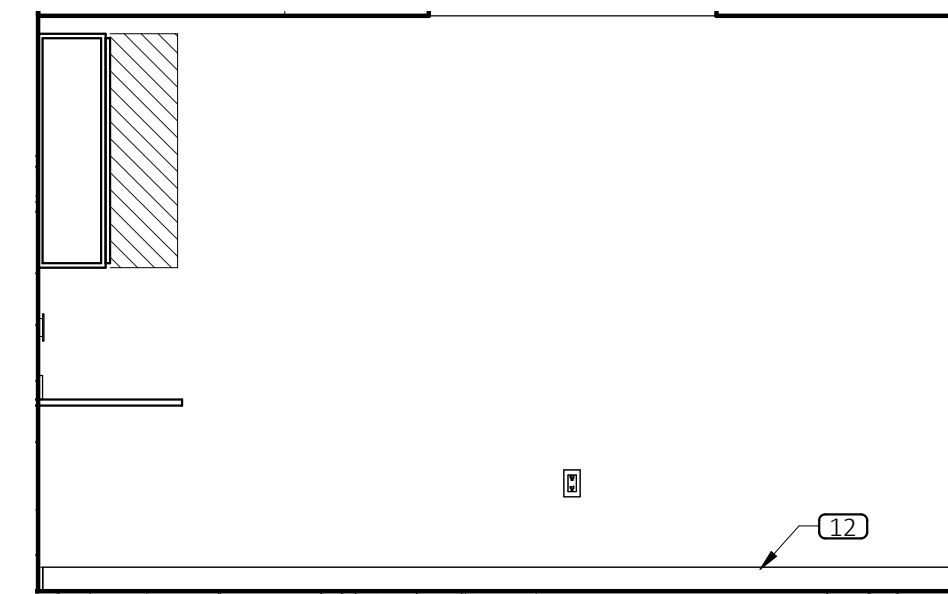
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A5.8 SCALE: 3/8" = 1'-0"



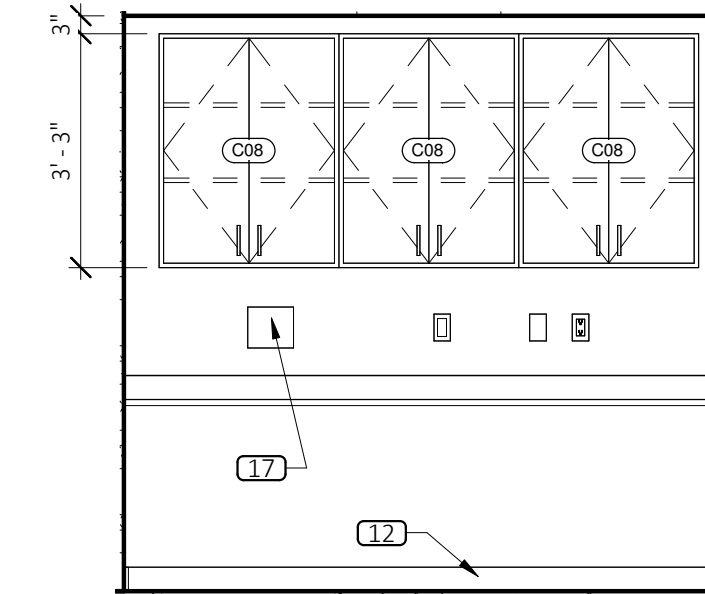
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A5.8 SCALE: 3/8" = 1'-0"



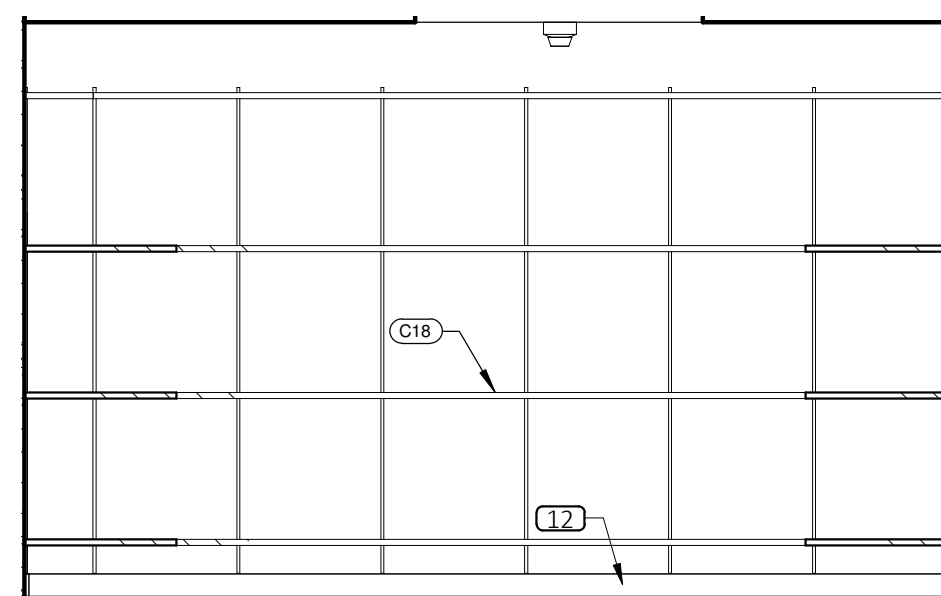
7 RESOURCE
A5.8 SCALE: 3/8" = 1'-0"



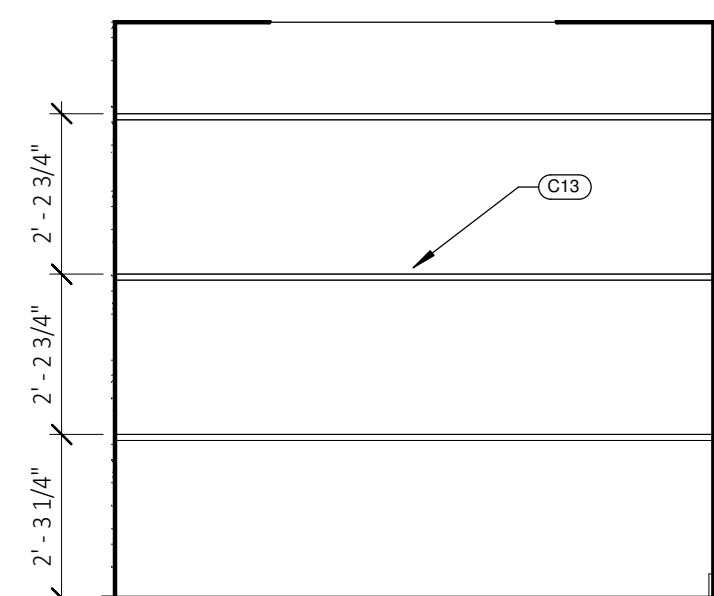
8 STAFF
A5.8 SCALE: 3/8" = 1'-0"



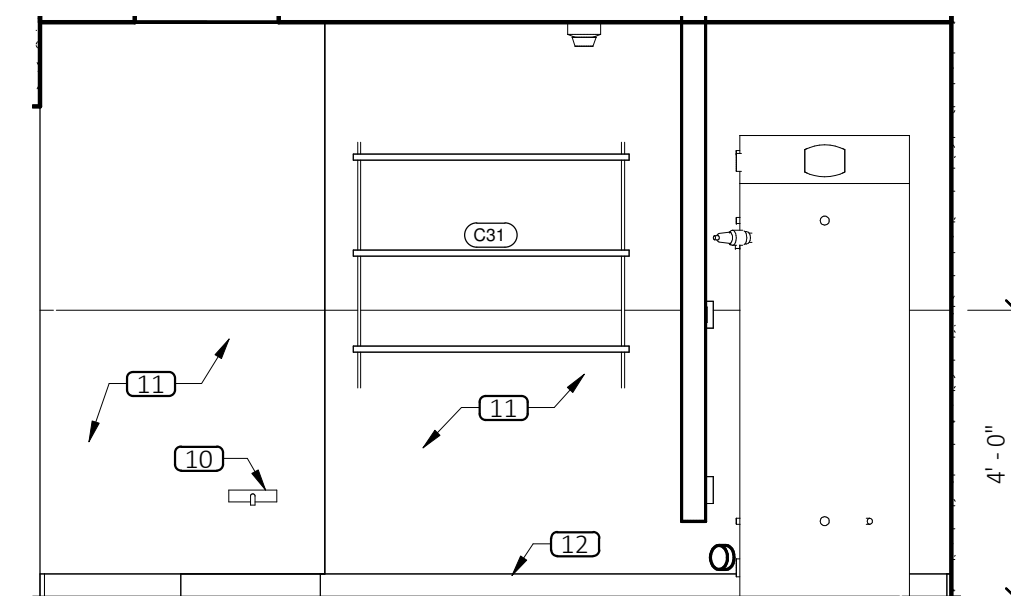
9 STAFF
A5.8 SCALE: 3/8" = 1'-0"



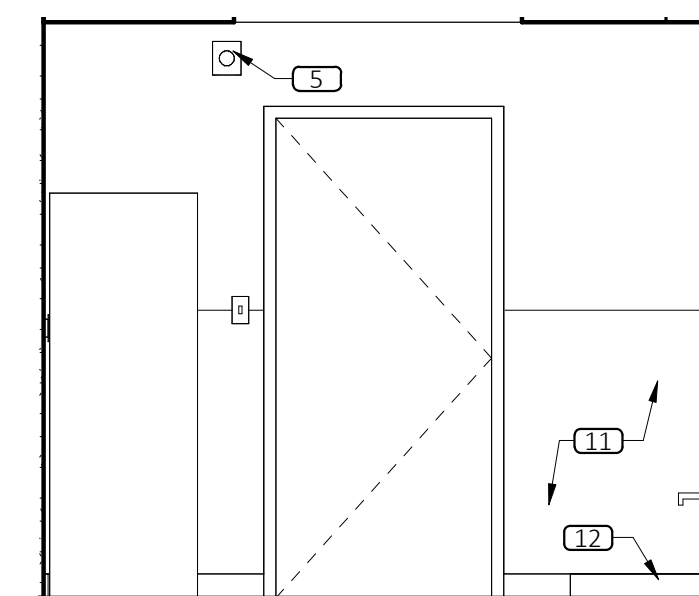
10 STORAGE
A5.8 SCALE: 3/8" = 1'-0"



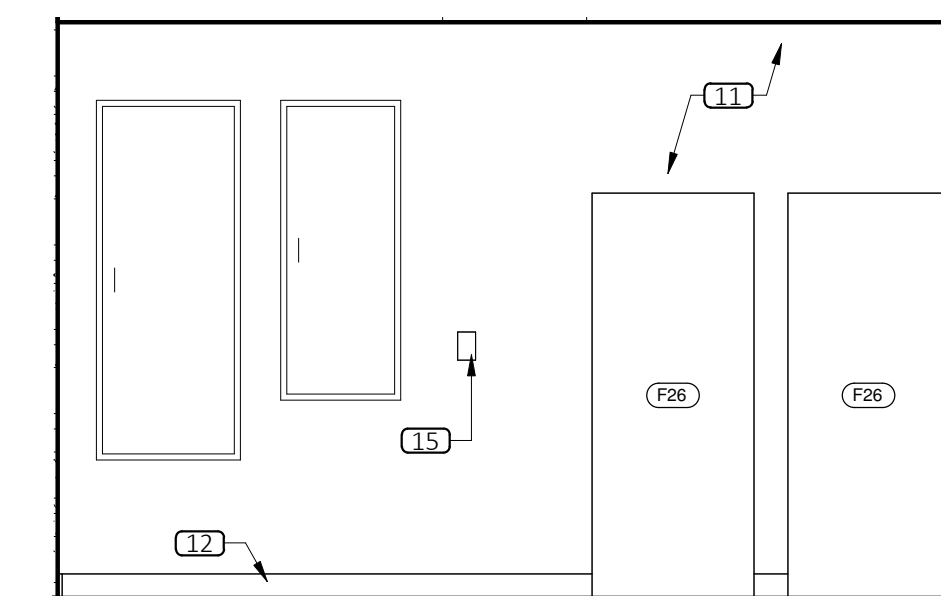
11 CARESEAT STORAGE
A5.8 SCALE: 3/8" = 1'-0"



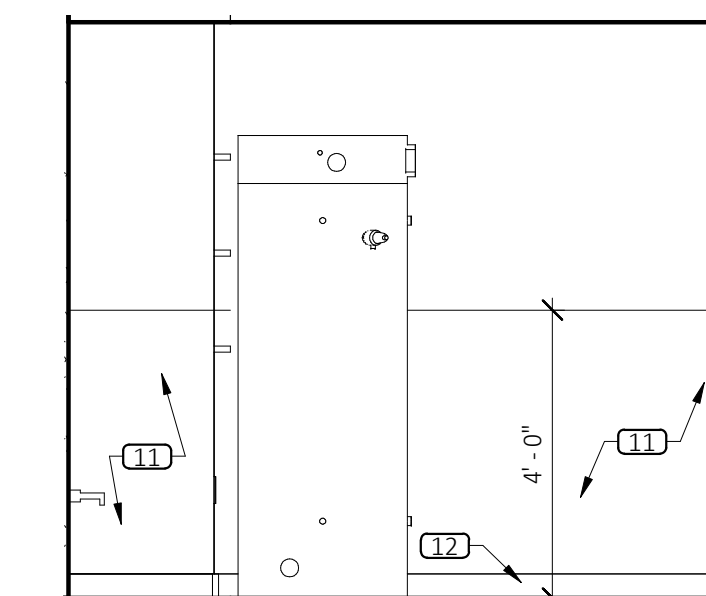
12 LAUNDRY
A5.8 SCALE: 3/8" = 1'-0"



13 LAUNDRY
A5.8 SCALE: 3/8" = 1'-0"



14 LAUNDRY
A5.8 SCALE: 3/8" = 1'-0"



15 LAUNDRY
A5.8 SCALE: 3/8" = 1'-0"

ELEVATION KEYED NOTES

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- 8 THERMOSTAT WITH CLEAR LOCKABLE COVER. .48" TO HIGHEST OPERABLE PART, SEE MECHANICAL.
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CASEWORK SCHEDULE

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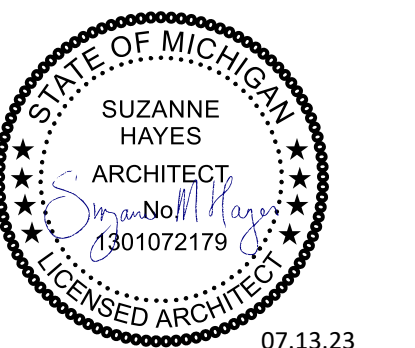
PRIMROSE SCHOOL
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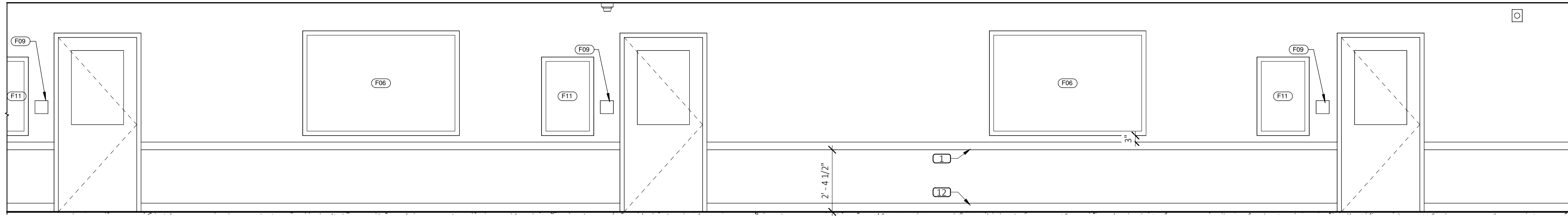


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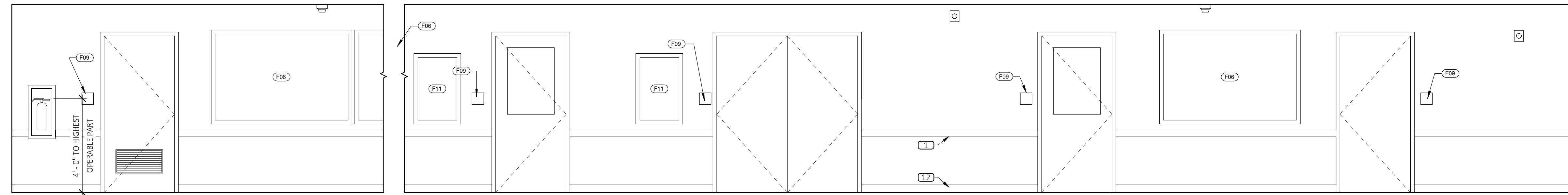
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INTERIOR ELEVATIONS

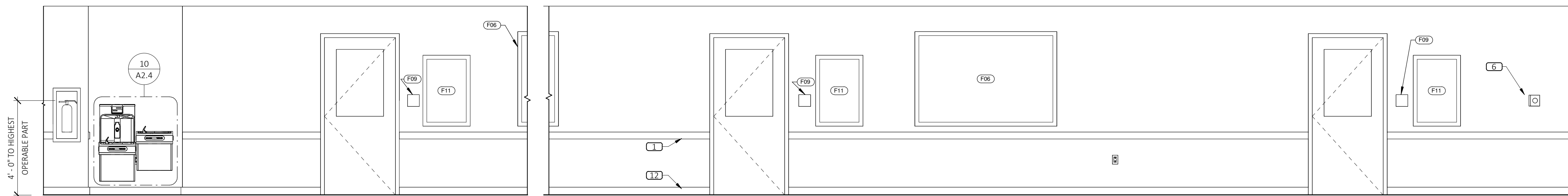
A5.8



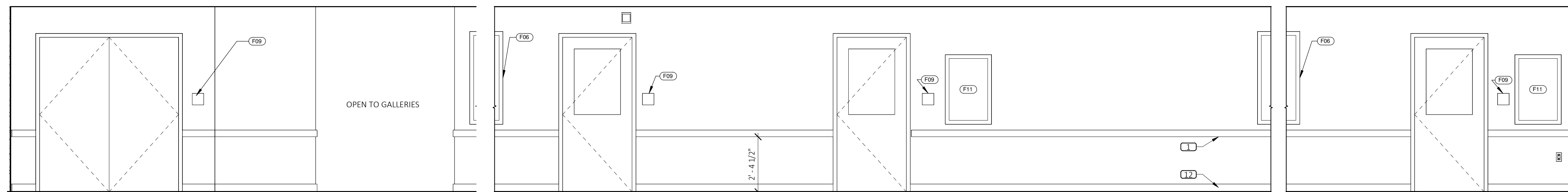
1 GALLERY
A5.9 SCALE: 3/8" = 1'-0"



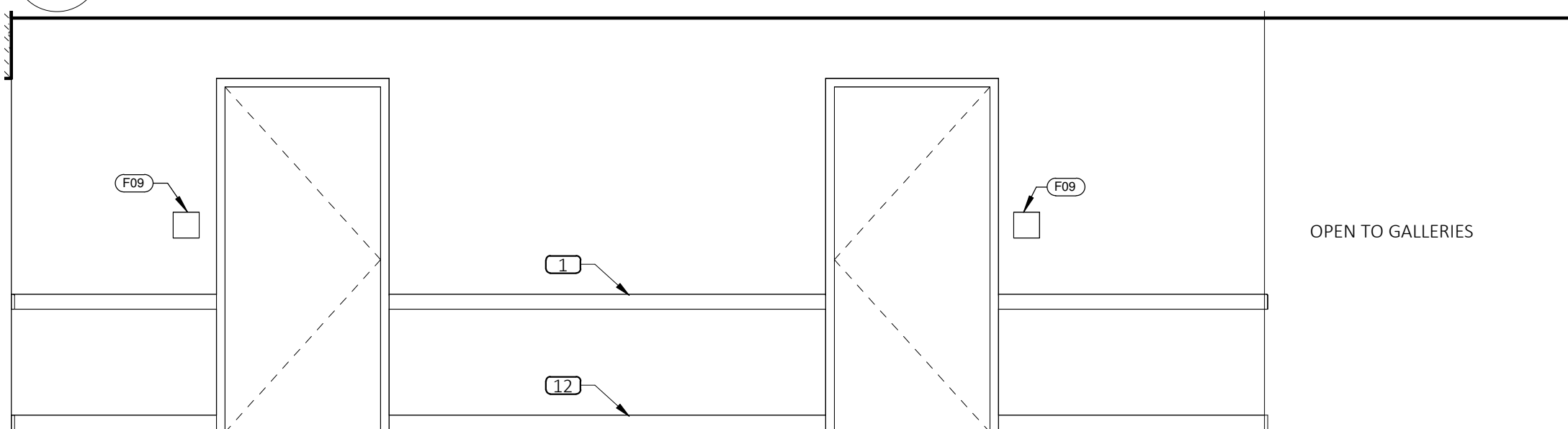
2 GALLERY
A5.9 SCALE: 3/8" = 1'-0"



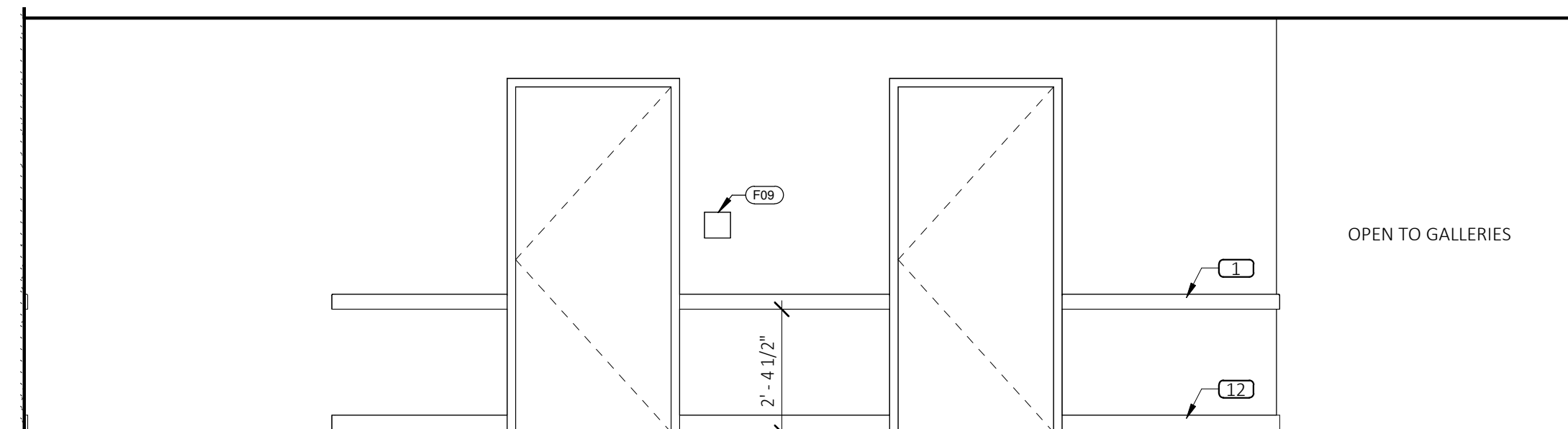
3 GALLERY
A5.9 SCALE: 3/8" = 1'-0"



4 GALLERY
A5.9 SCALE: 3/8" = 1'-0"



5 GALLERY
A5.9 SCALE: 3/8" = 1'-0"



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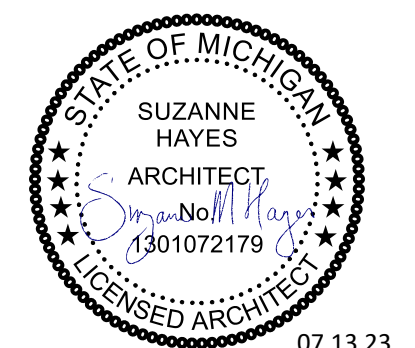


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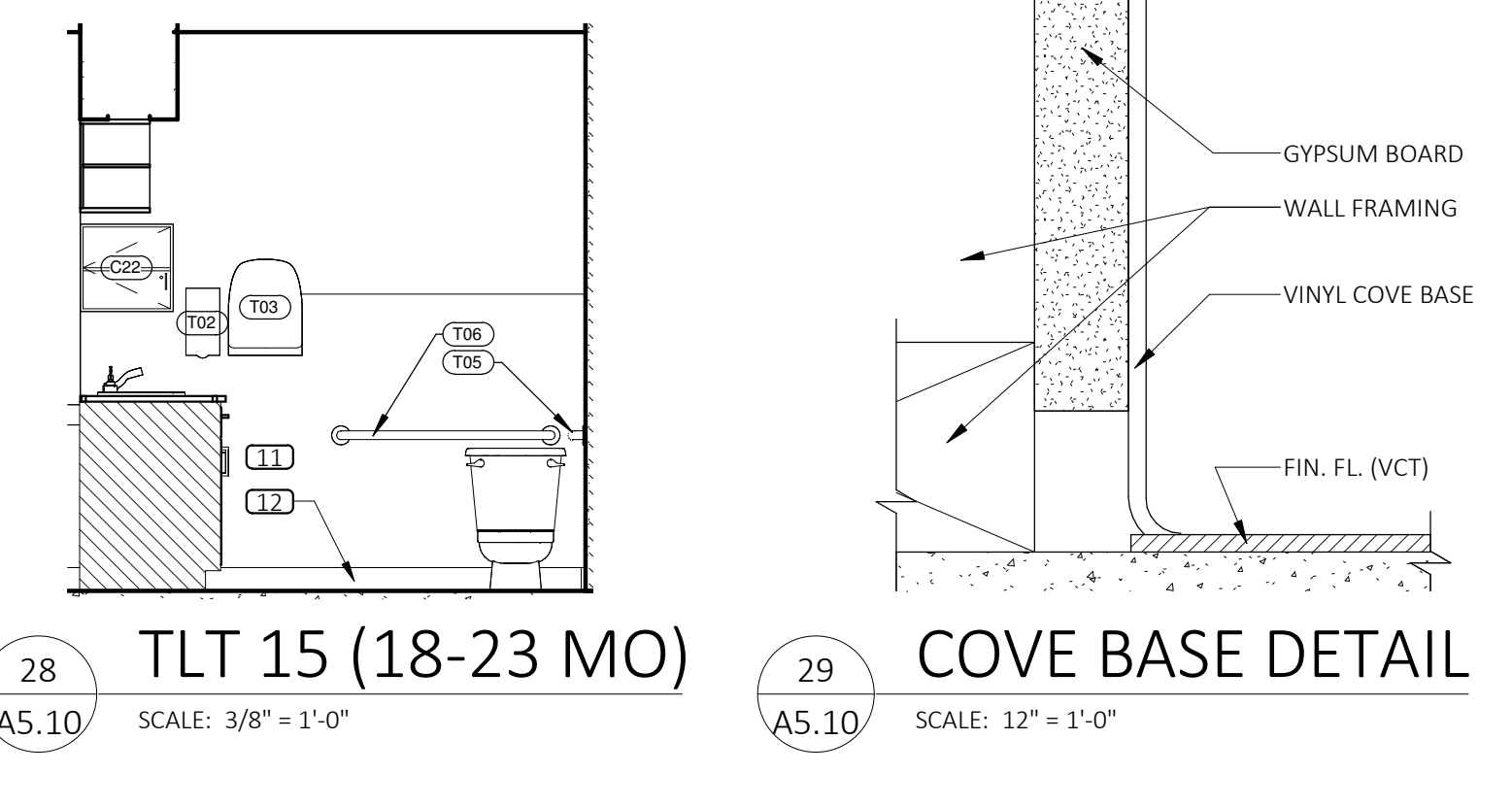
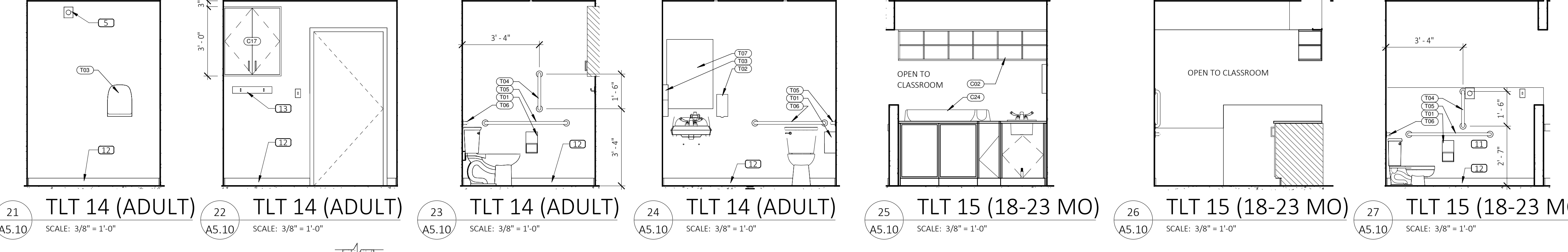
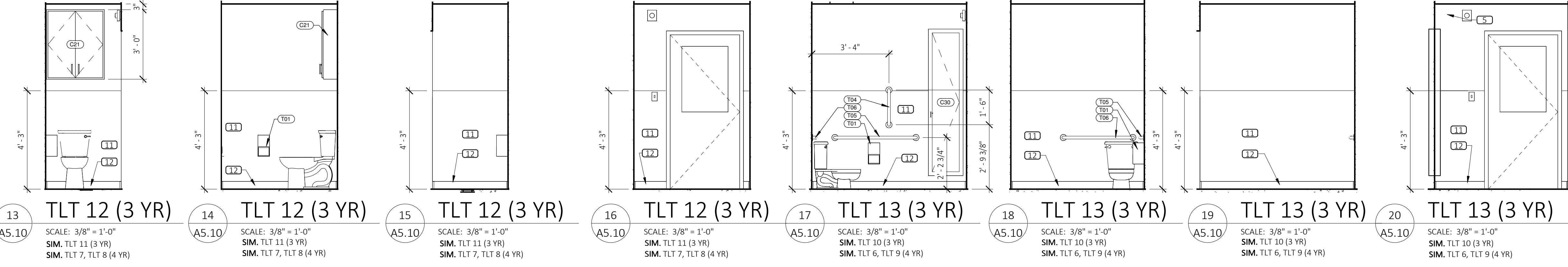
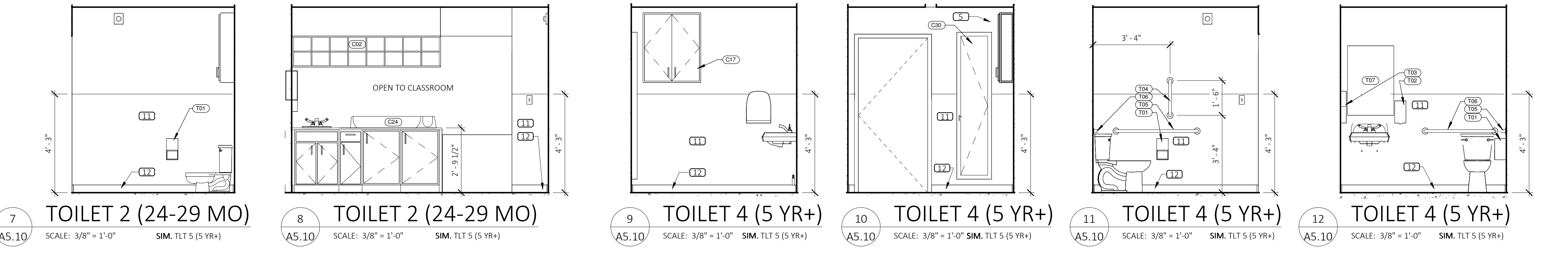
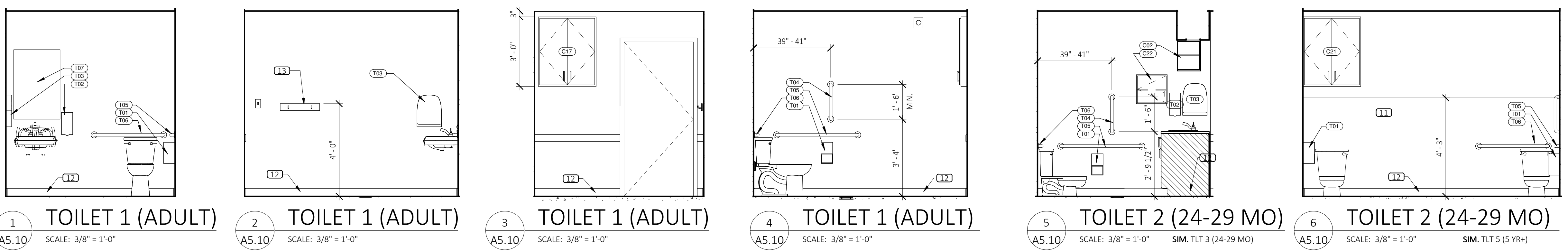


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

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INTERIOR
ELEVATIONS

A5.9



ACCESSIBILITY NOTES

- WATER CLOSETS**
- THE SEAT HEIGHT OF THE WATER CLOSET SHALL BE 17" TO 19" FOR ADULTS.
 - FLUSH CONTROLS SHALL BE MOUNTED FOR USE ON THE OPEN SIDE OF THE TOILET.
 - GRAB BARS SHALL BE MOUNTED AS SHOWN IN PLAN AND ELEVATIONS.

- LAVATORIES**
- PROVIDE A MIN. CLEARANCE OF 27" A.F.F. TO THE BOTTOM OF THE APRON. THE RIM SHALL BE NO HIGHER THAN 34" MAX. SINK BOWLS SHALL HAVE A MAXIMUM DEPTH OF 6.5"
 - HOT WATER AND DRAIN PIPES UNDER THE LAV SHALL BE INSULATED AND PROTECTED.
 - ALL FAUCETS SHALL BE LEVER TYPE.
 - MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTIVE SURFACE NO HIGHER THAN 40", (34" MAX. AT CHILDRENS).

- GRAB BARS**
- COMPLY FOR ALLOWABLE STRESSES IN BENDING, SHEAR AND TENSION SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 LBS. IS APPLIED AT ANY POINT ON THE GRAB BAR.

NOTE: HANDRAILS SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE OF A NOMINAL DIAMETER OR WIDTH OF 1 1/4" TO 1 1/2".

- TOILET PAPER DISPENSERS**
- INSTALL AS INDICATED ON ELEVATIONS. DISPENSERS THAT CONTROL DELIVERY, OR THAT DO NOT PERMIT CONTINUOUS PAPER FLOW, SHALL NOT BE USED.
 - INSTALL TOILET PAPER DISPENSER 7"-9" FROM FRONT EDGE OF TOILET TO CENTERLINE OF DISPENSER.

- CHILDREN'S TOILET ROOM DOORS**
- MOUNT PULL AT 34" A.F.F. TO THE BOTTOM OF PULL.

NOTE TO GENERAL CONTRACTOR:
A COPY OF THIS SHEET SHALL BE FURNISHED TO THE PLUMBING CONTRACTOR.

MOUNTING HEIGHTS

CHILDREN'S DIMENSIONS (1.5" Ø GRAB BARS ASSUMED)

TOILET TYPE	SIDE BAR HEIGHT	(CONFIRM) TOILET TANK HEIGHT	REAR BAR HEIGHT	DISPENSER OUTLET HEIGHT
JUNIOR (JR)	18" - 20" TOP	26"	27.5" BOT	14"
STANDARD (STD)	20" - 25" TOP	29"	30.5" BOT	14" - 17"
ADA (HC)	33" - 36" TOP	30.25"	33" - 36" TOP	15" - 48" TOP

TOILET SIZES

JUNIOR SIZE TOILETS: TOILET ROOMS 2, 3, 10, 13, 15, 16, 17, 18
STANDARD SIZE TOILETS: TOILET ROOMS 4, 5, 6, 7, 8, 9, 11, 12
ADA SIZE TOILETS: TOILET ROOMS 1, 14

NOTE:
G.C. SHALL CONFIRM EXACT QUANTITY & LOCATION OF SOAP AND PAPER TOWEL DISPENSERS WITH FRANCHISE OWNER PRIOR TO ORDERING.

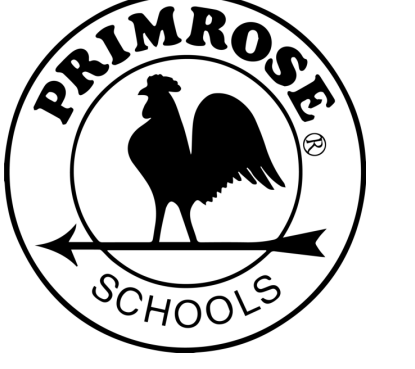
ELEVATION KEYED NOTES

- CHAIR RAIL, SEE FINISH SCHEDULE
- PROVIDE FULL HEIGHT FRP AT COT STORAGE ALCOVE. EXTEND FRP TO END FACE OF WING WALL & TERMINATE W/ J-MOULD (TYP.)
- PROVIDE BLOCKING FOR WOOD SHELF
- 1" x 4" SHIP LAP. PROVIDE WOOD BLOCKING IN WALL AS NEEDED.
- FA VISUAL STROBE
- FA PULL STATION
- 8" BACK SPLASH
- THERMOSTAT WITH CLEAR LOCKABLE COVER. .48" TO HIGHEST OPERABLE PART, SEE MECHANICAL.
- HOSE BIBB ACCESS PANEL
- MOP SINK
- FRP
- COVE BASE
- COAT HOOKS
- 29" MONITOR. PROVIDE OUTLET, SEE ELECTRICAL
- TIME CLOCK
- FIRE ALARM ANNUNCIATOR PANEL
- INTERCOM
- MASTER UNIT FRP DM

TOILET ACCESSORIES

Type Mark	Description	OWNER FURNISHED	INSTALLER FURNISHED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED
T01	TOILET TISSUE DISPENSER				
T02	NEW SCHOOL ITEM - SOAP DISPENSER - WHITE OR FAUX STAINLESS				
T03	NEW SCHOOL ITEM - PAPER TOWEL DISPENSER - WHITE OR FAUX STAINLESS				
T04	24" GRAB BAR. SEE ELEVATION				
T05	42" GRAB BAR. SEE ELEVATION.				
T06	36" GRAB BAR. SEE ELEVATION.				
T07	24" X 36" RESTROOM MIRROR				

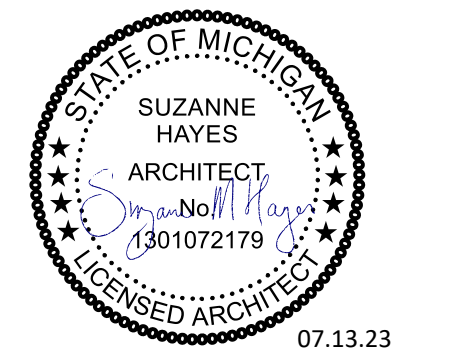
PRIMROSE SCHOOL
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 NOVI, MI 48375



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 Description
 CONSTR. DOC. & REVISIONS

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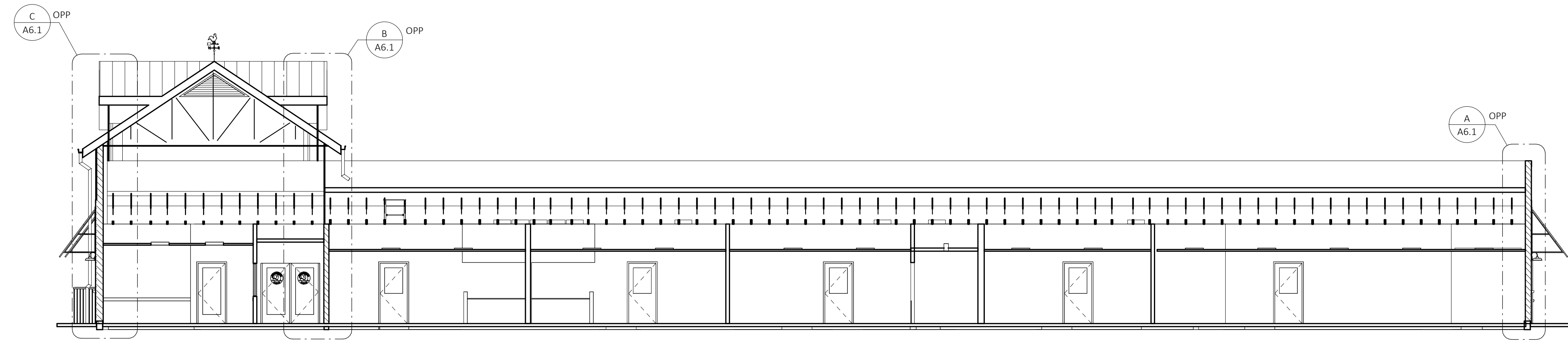


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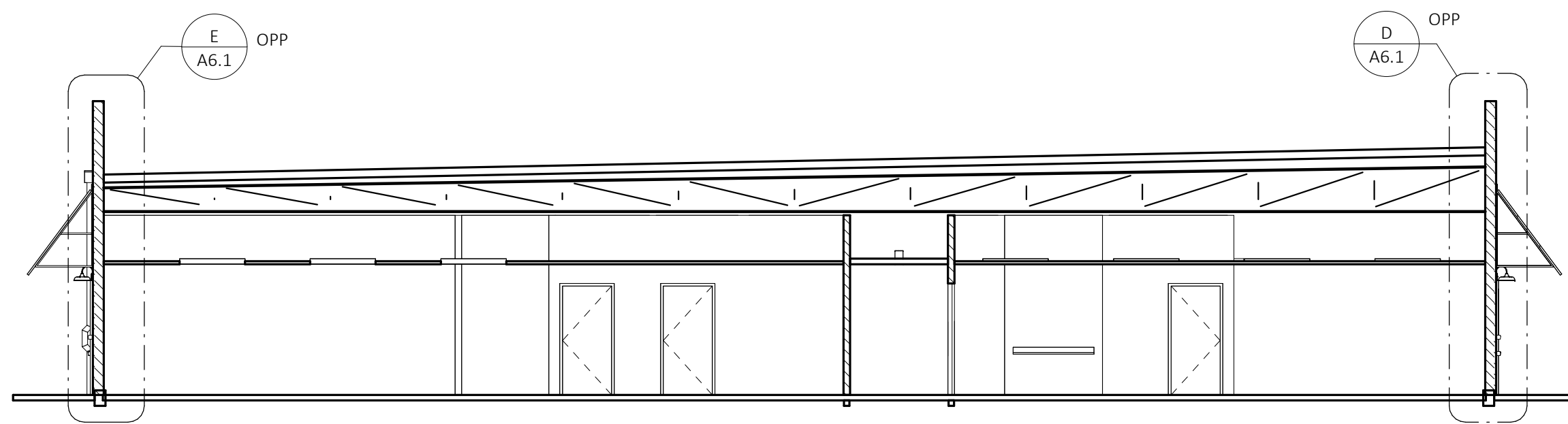
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TOILET ROOM DETAILS

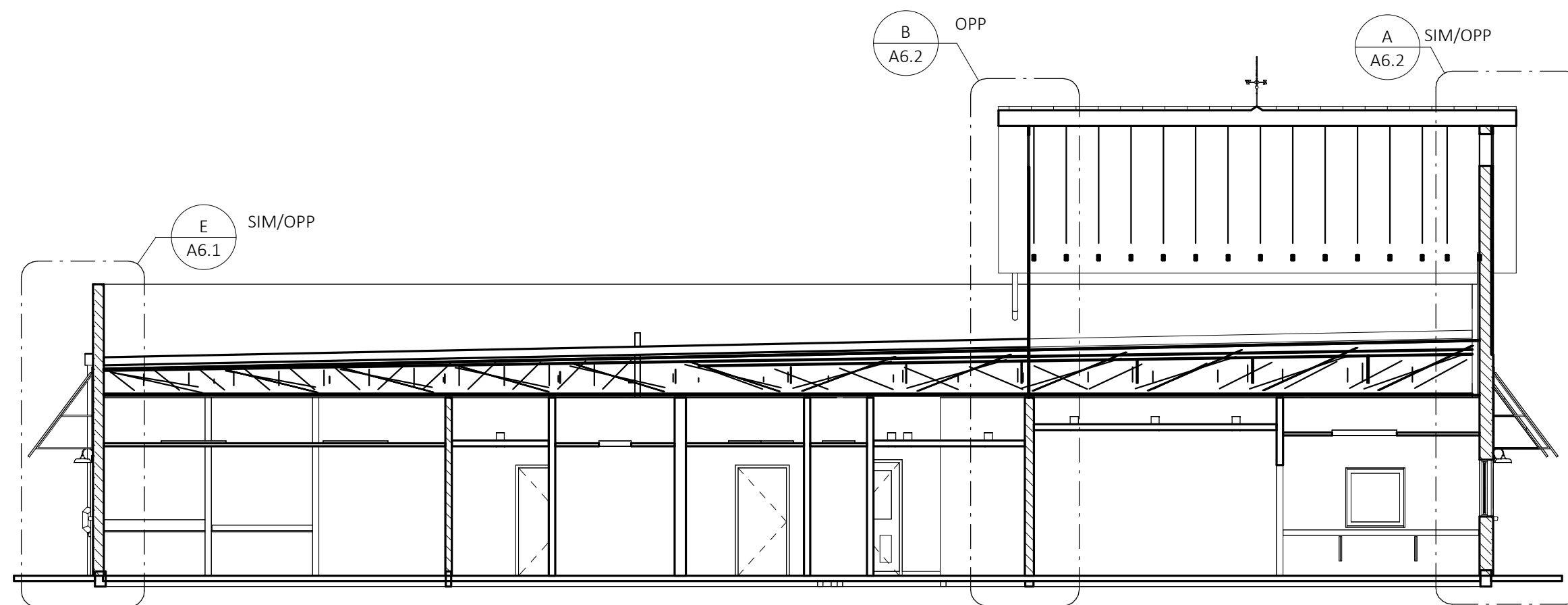
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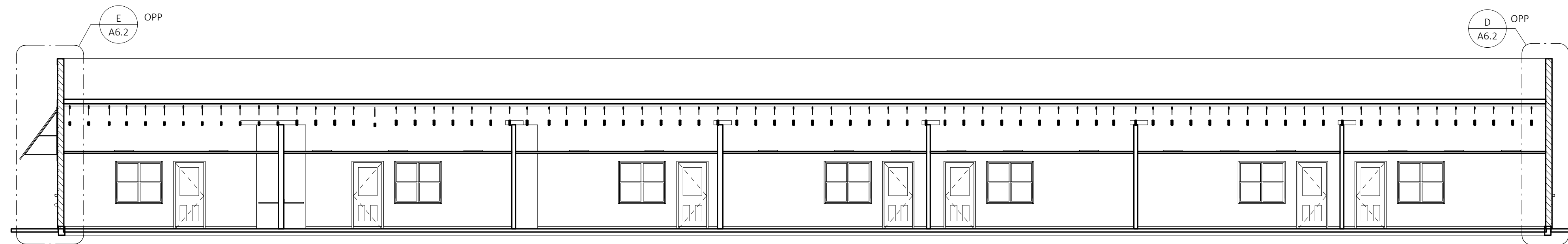
1 BUILDING SECTION
A6.0 SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
A6.0 SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
A6.0 SCALE: 1/8" = 1'-0"



4 BUILDING SECTION
A6.0 SCALE: 1/8" = 1'-0"

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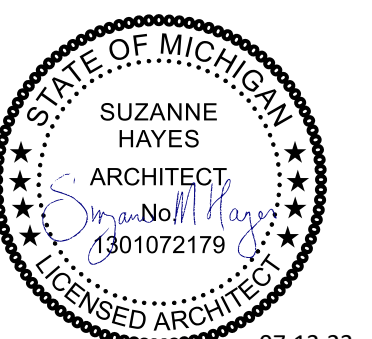


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Description

No.



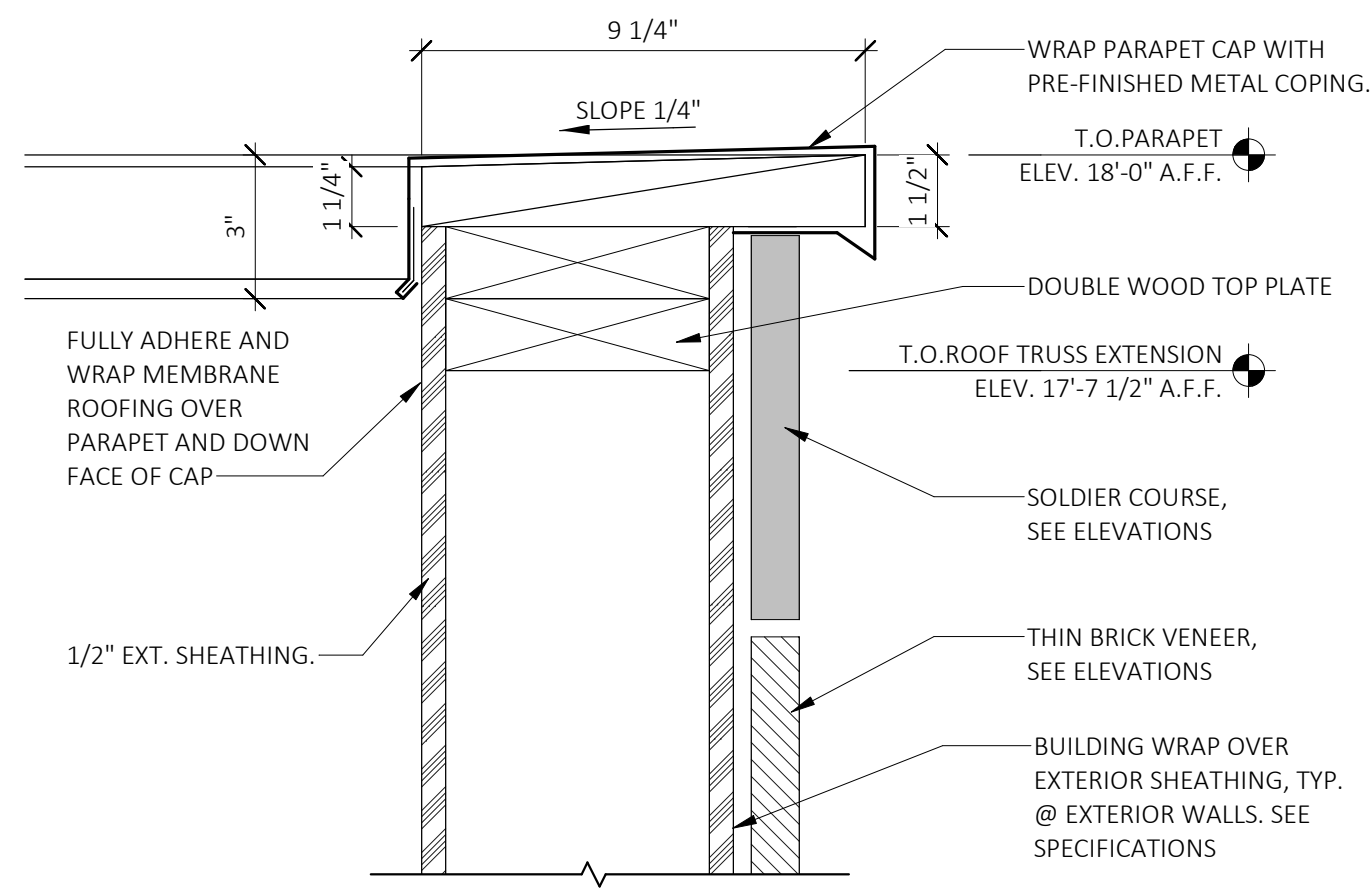
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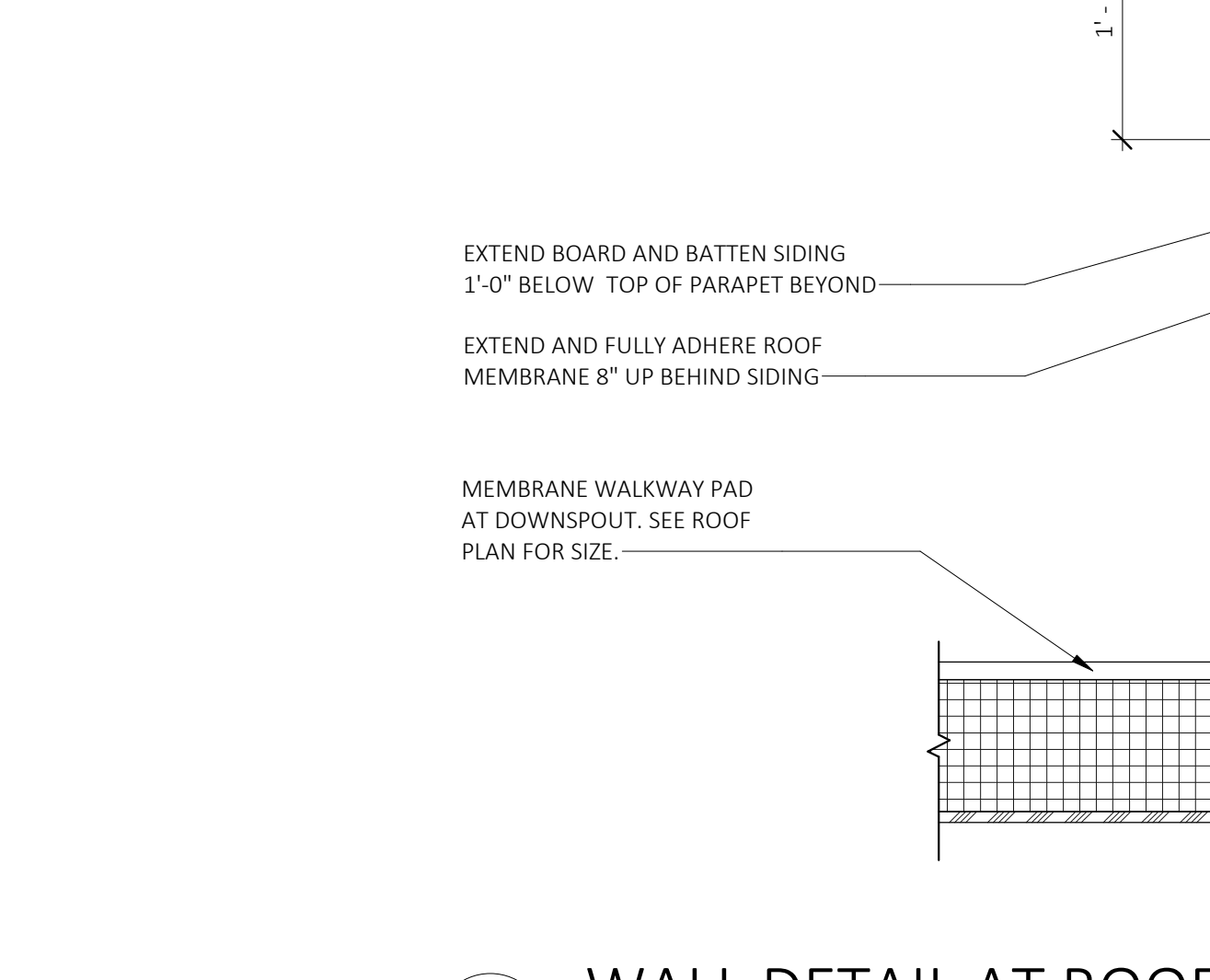
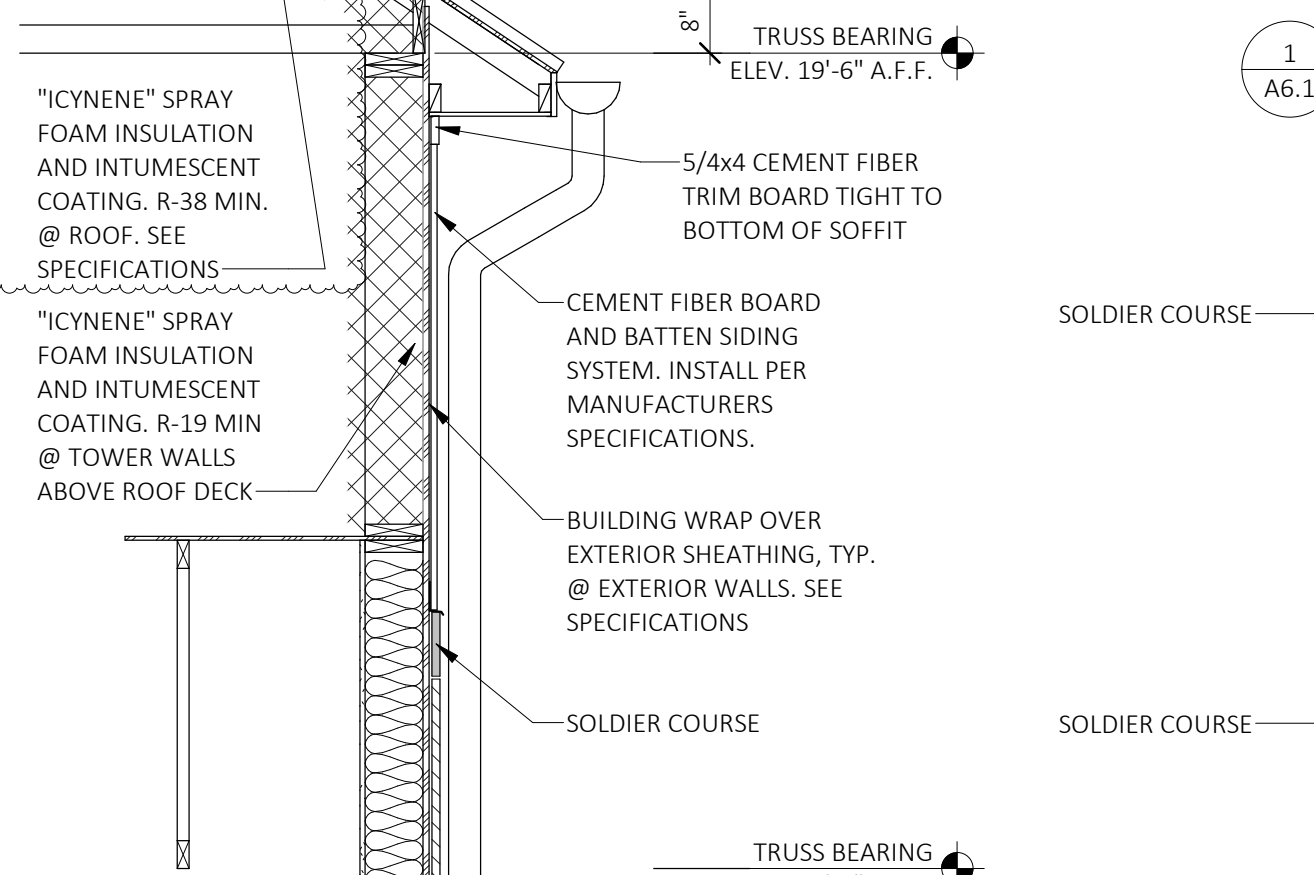
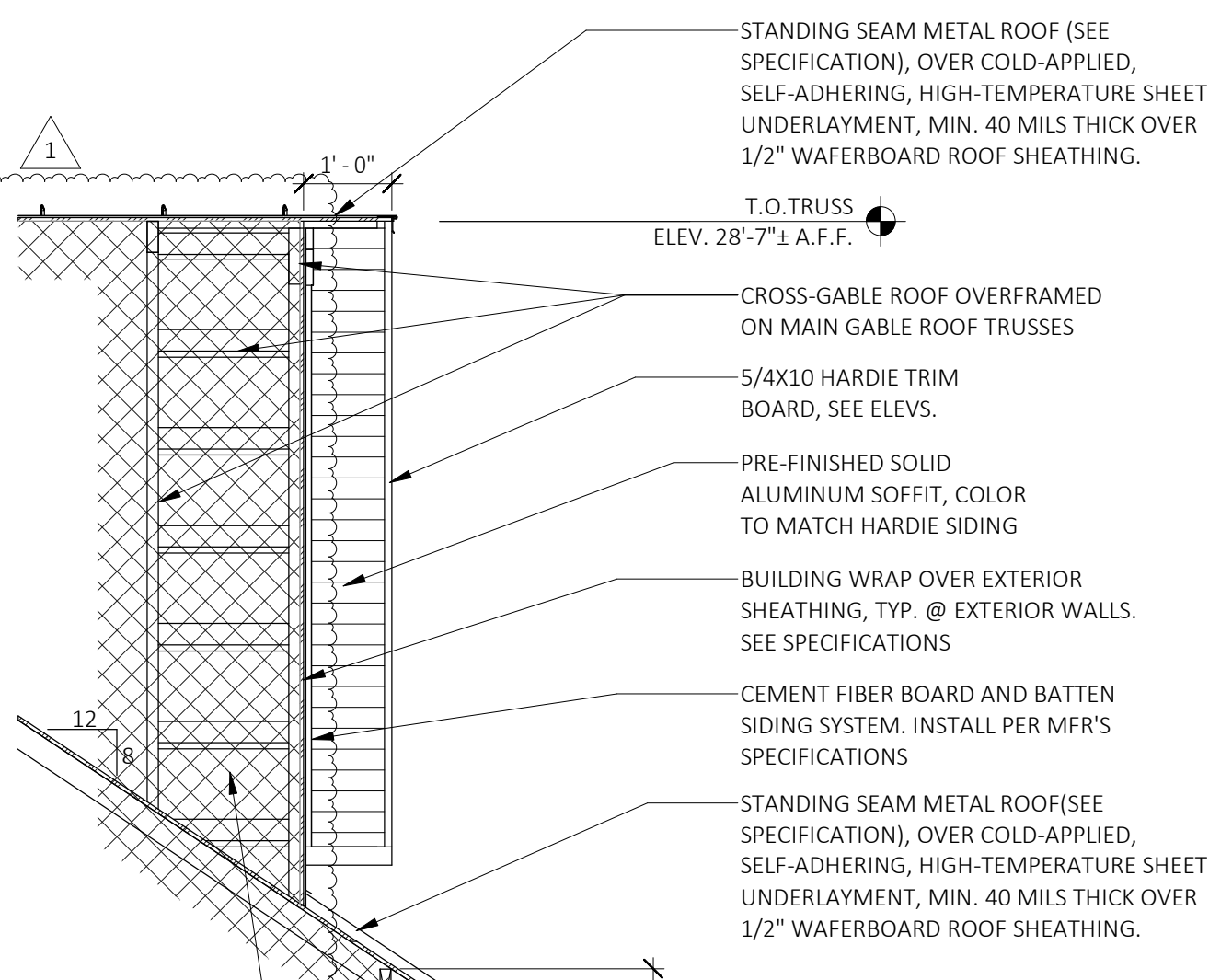
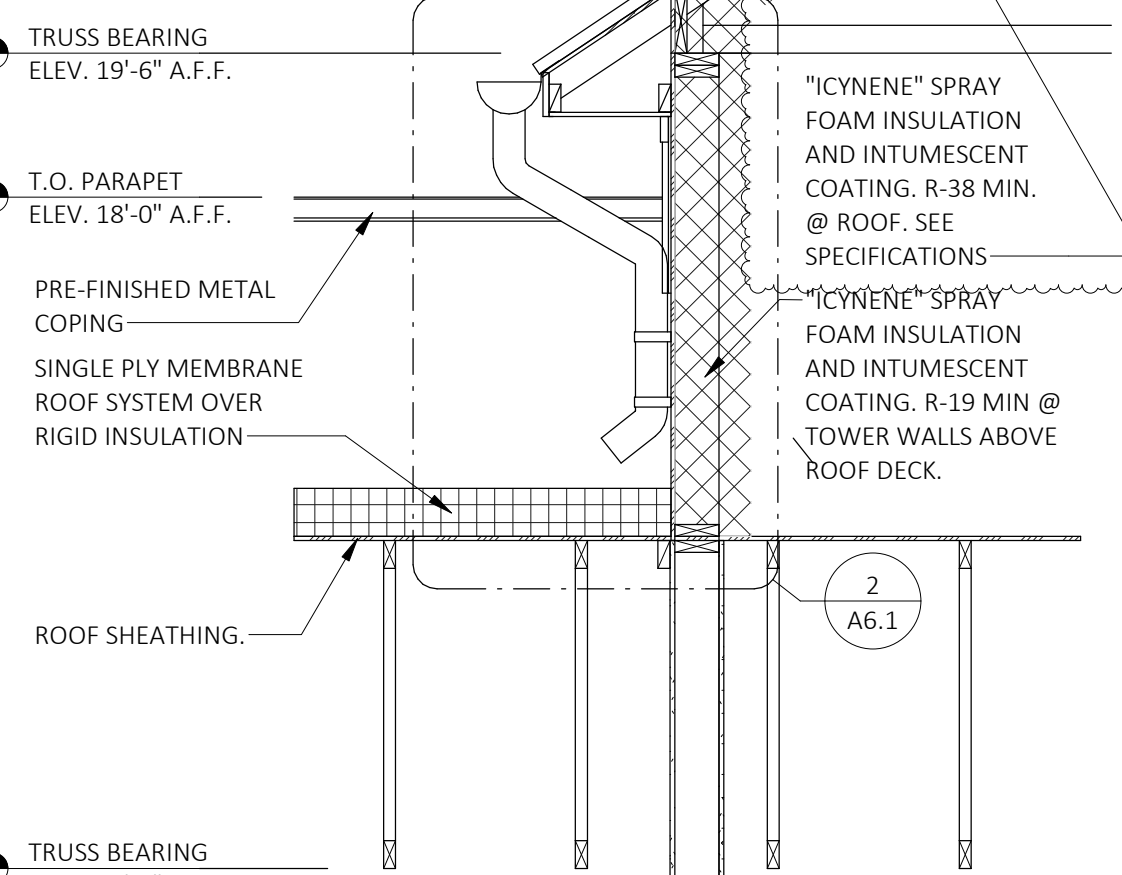
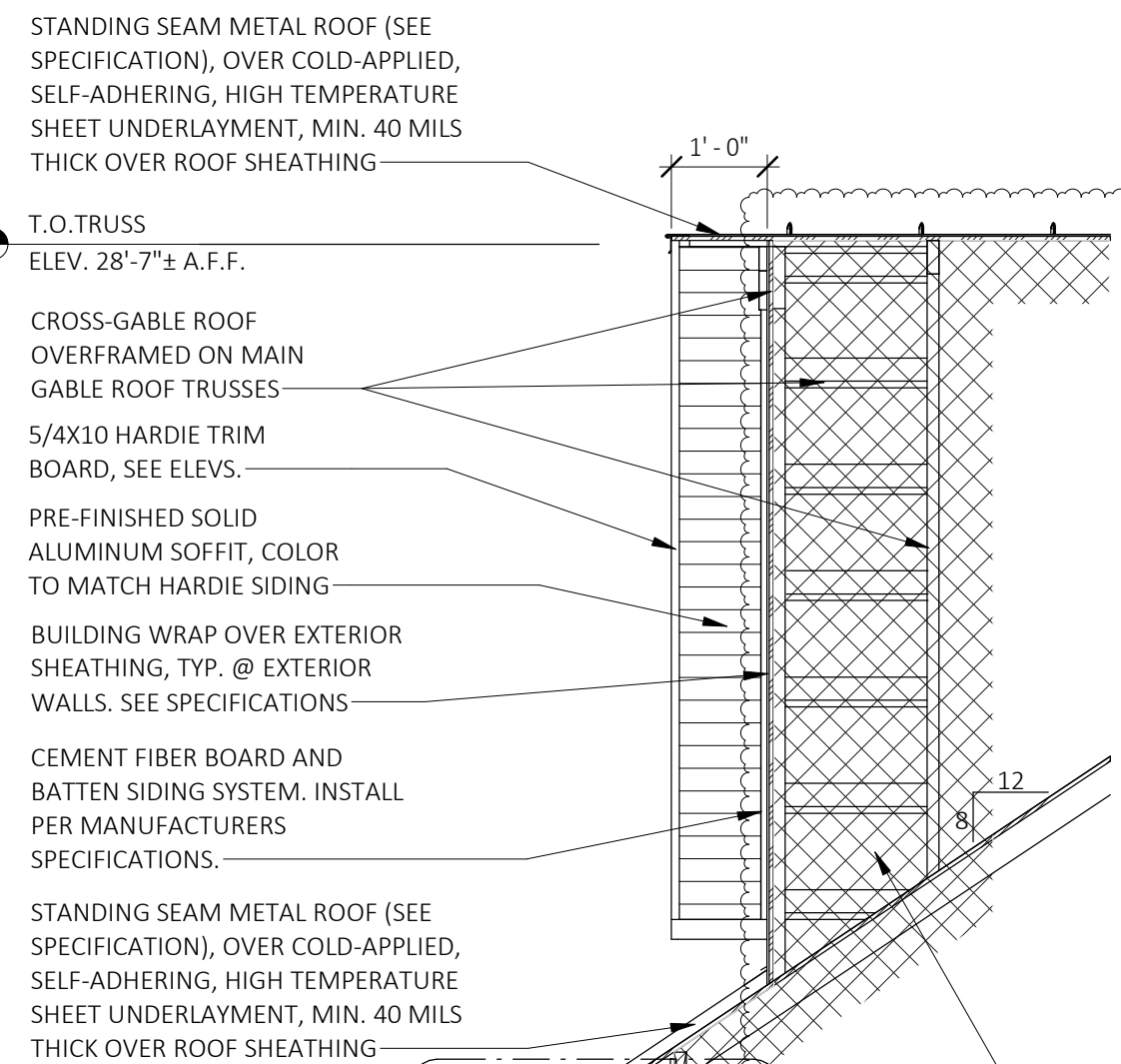
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BUILDING
SECTIONS

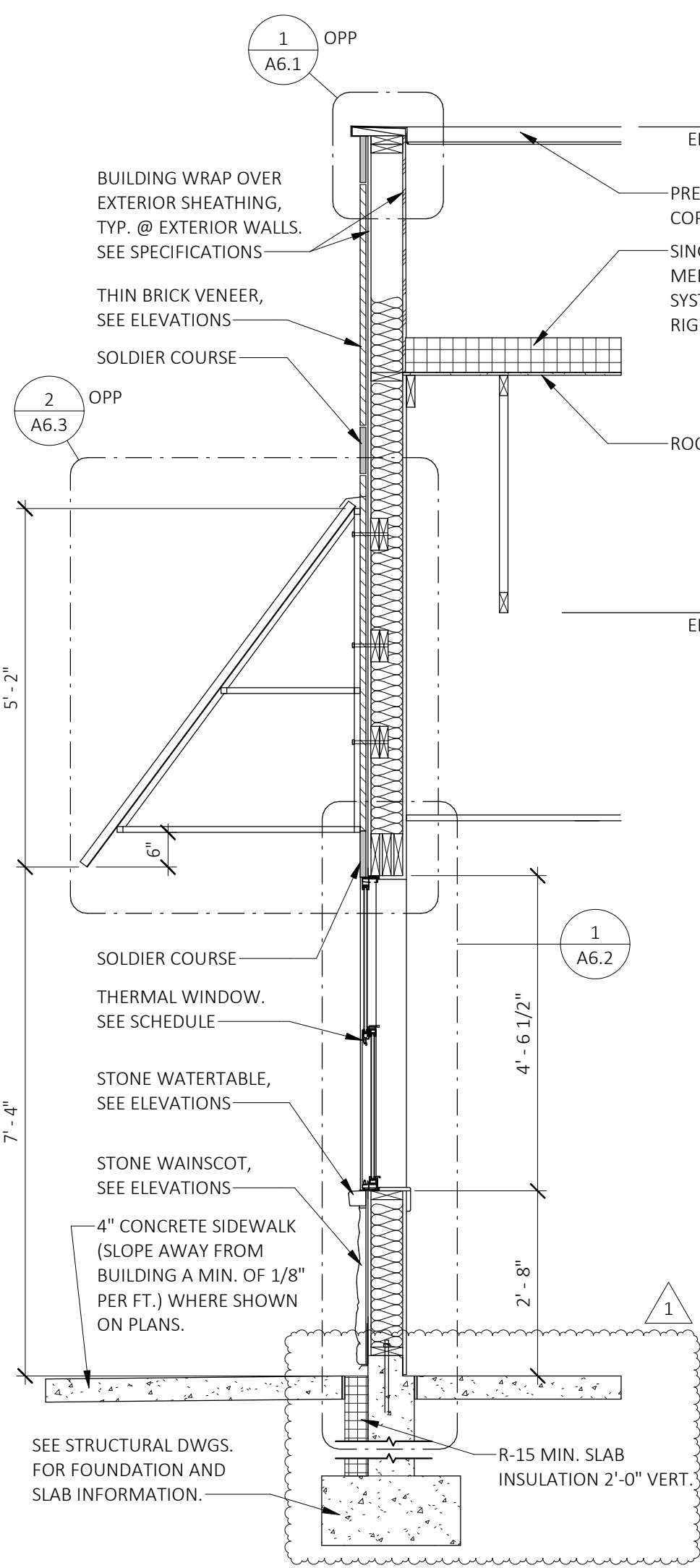
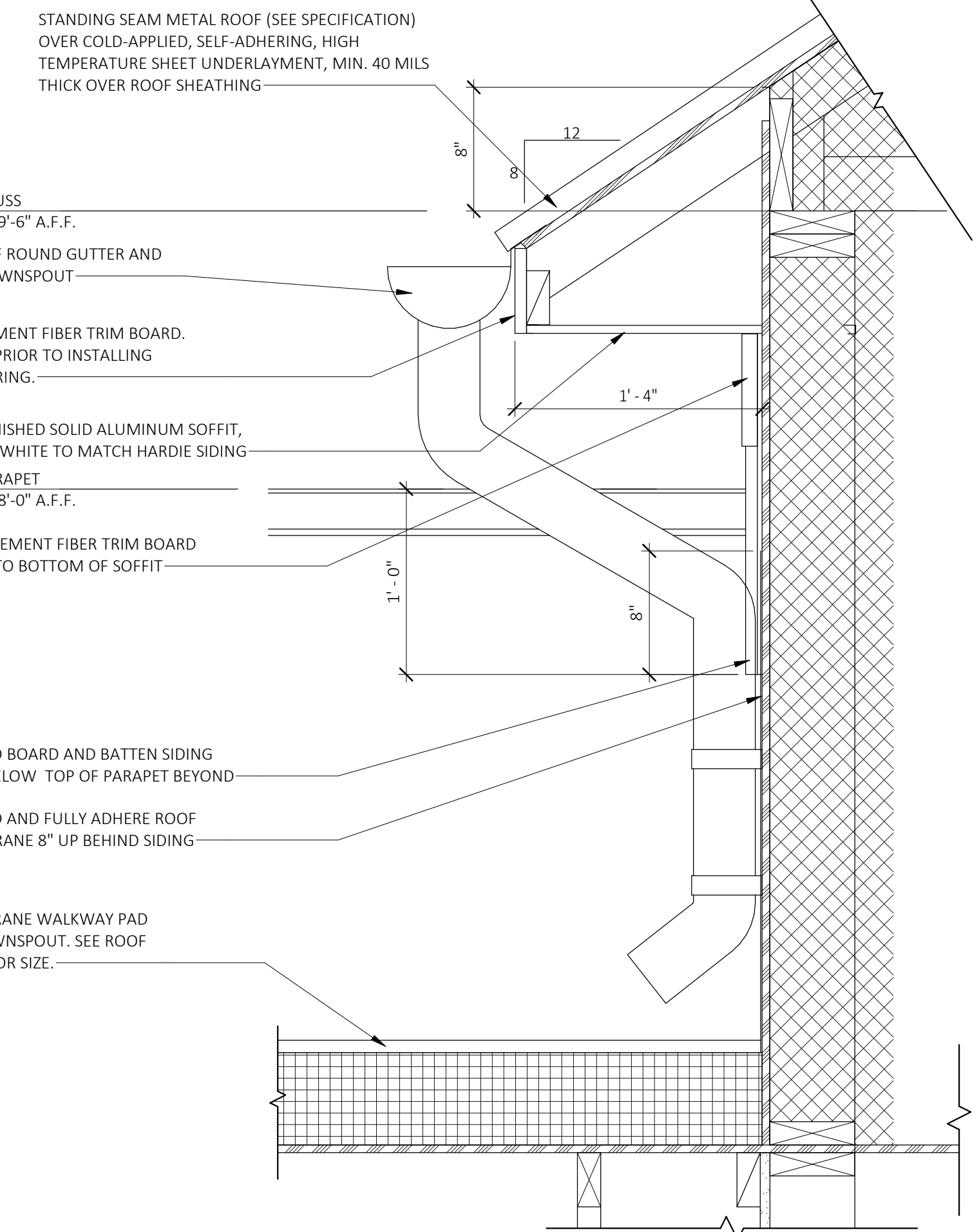
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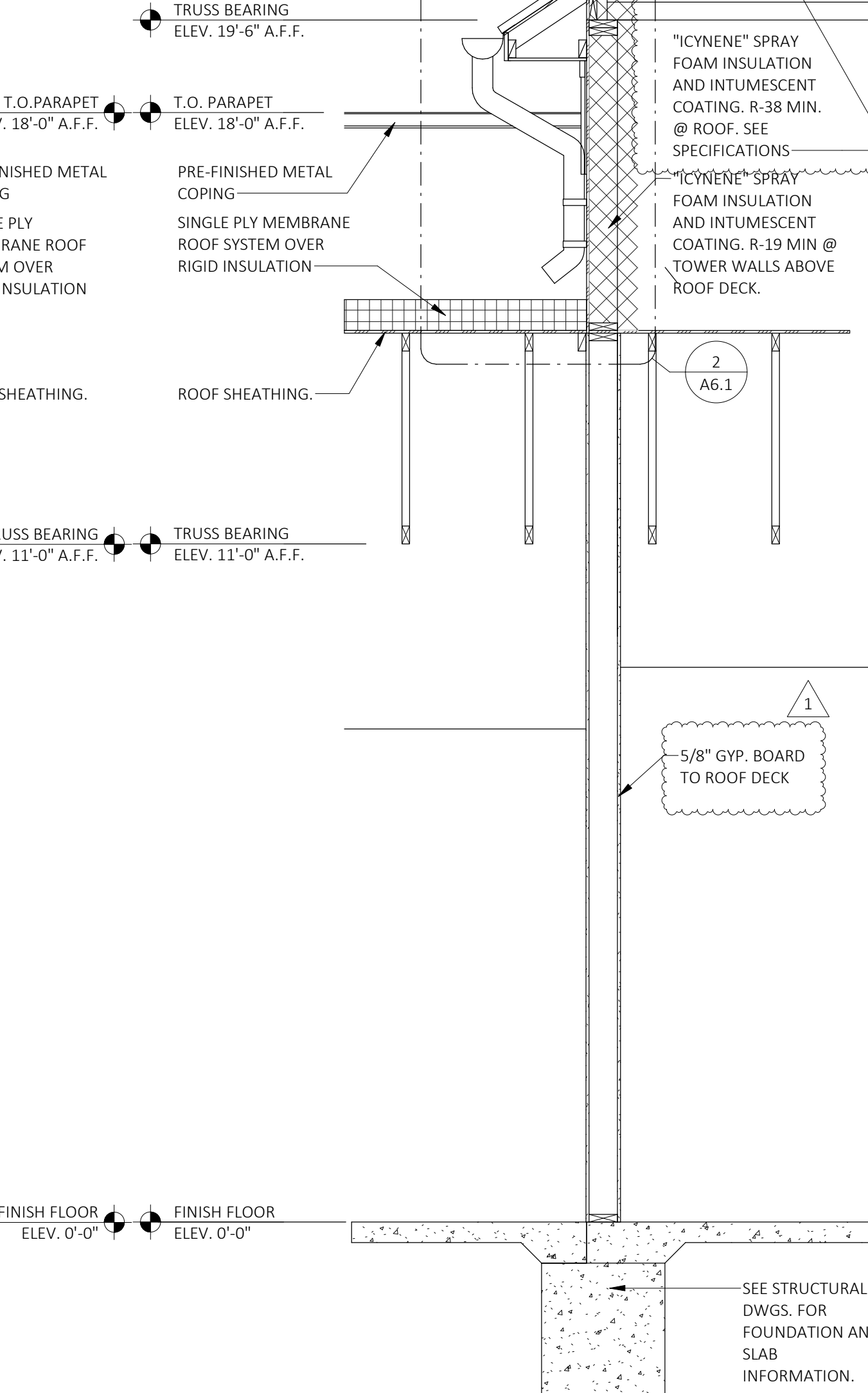
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A6.1
PARAPET
SCALE: 3" = 1'-0"



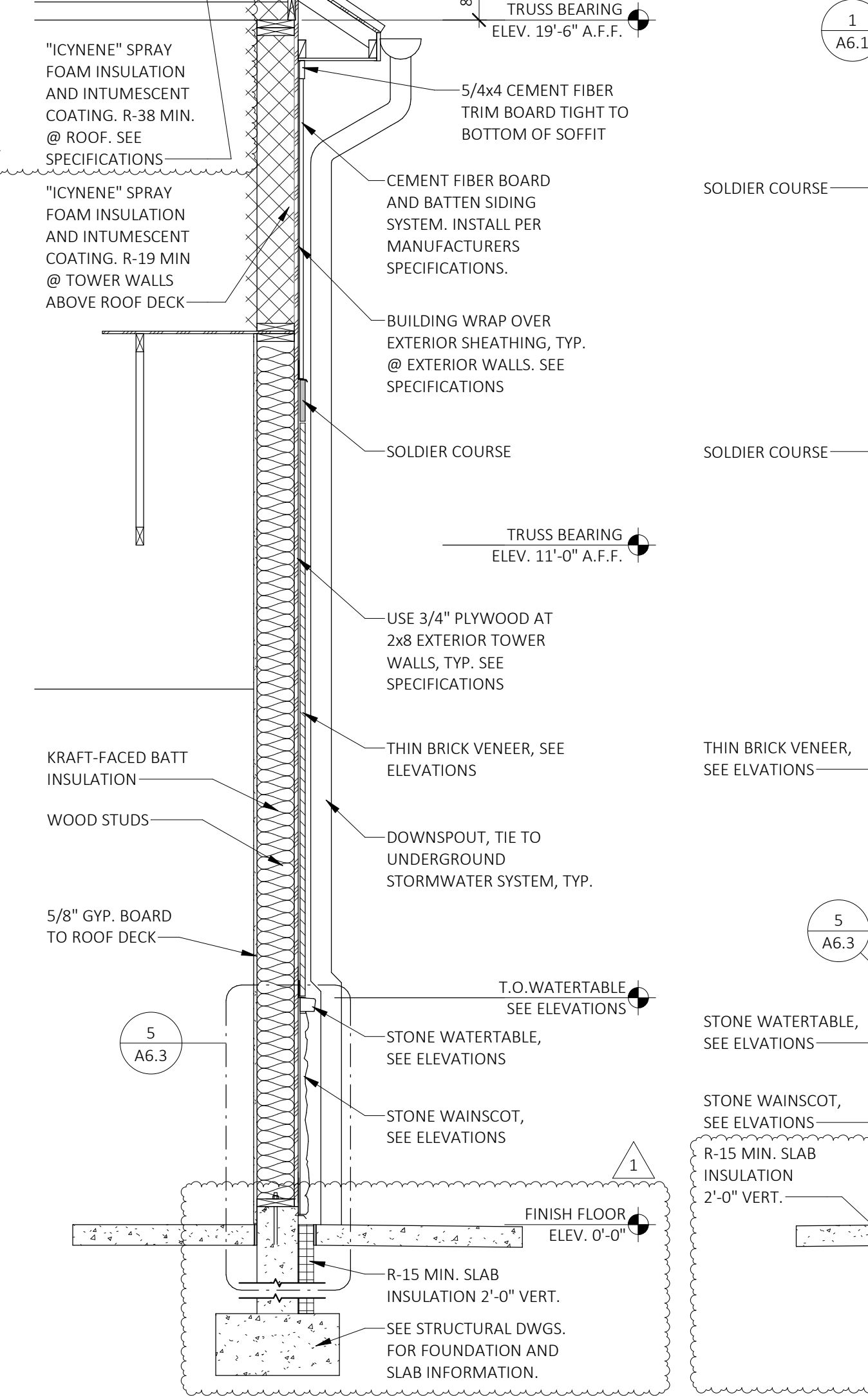
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A6.1
WALL DETAIL AT ROOF
SCALE: 1 1/2" = 1'-0"



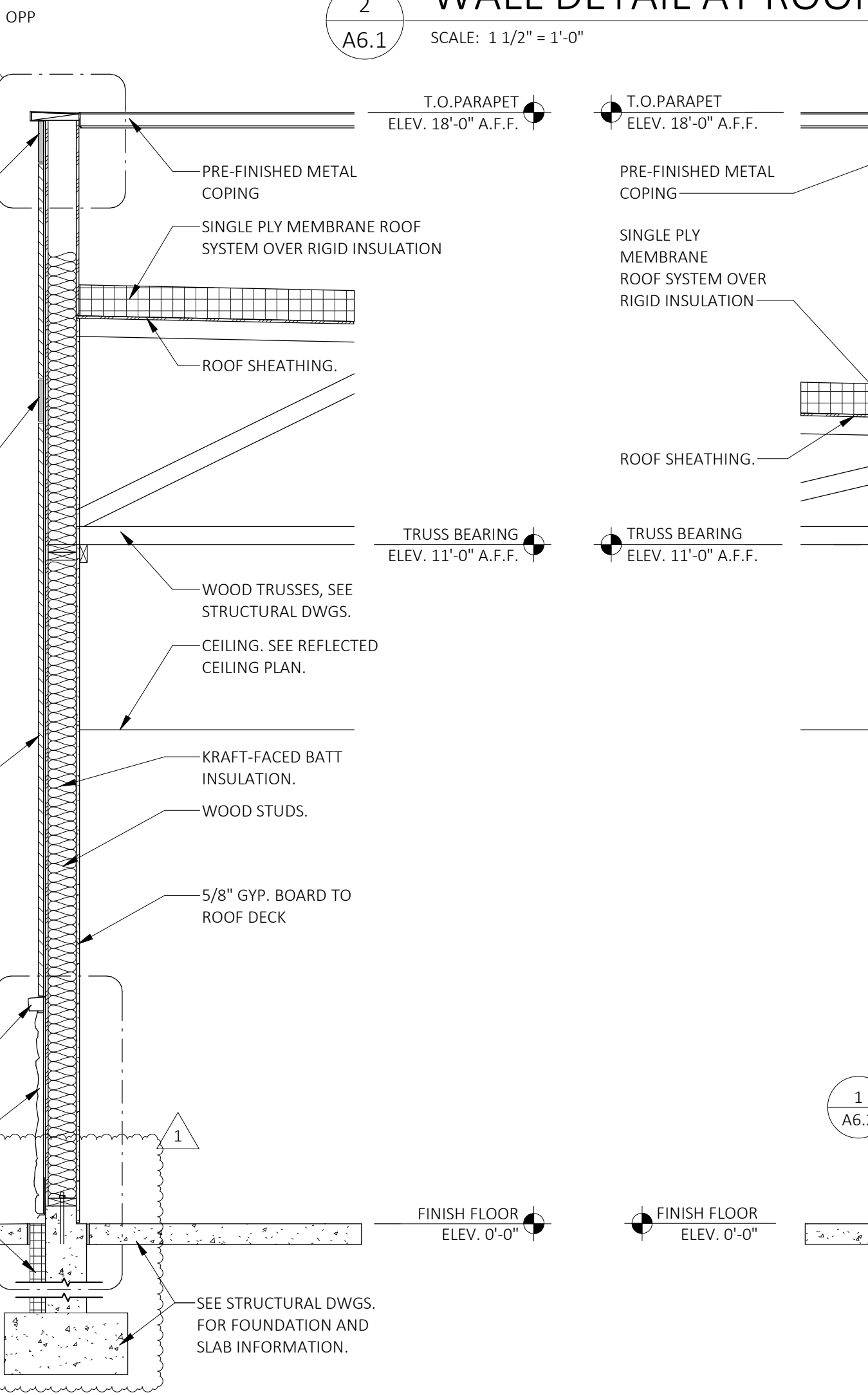
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A6.1
WALL SECTION
SCALE: 1/2" = 1'-0"



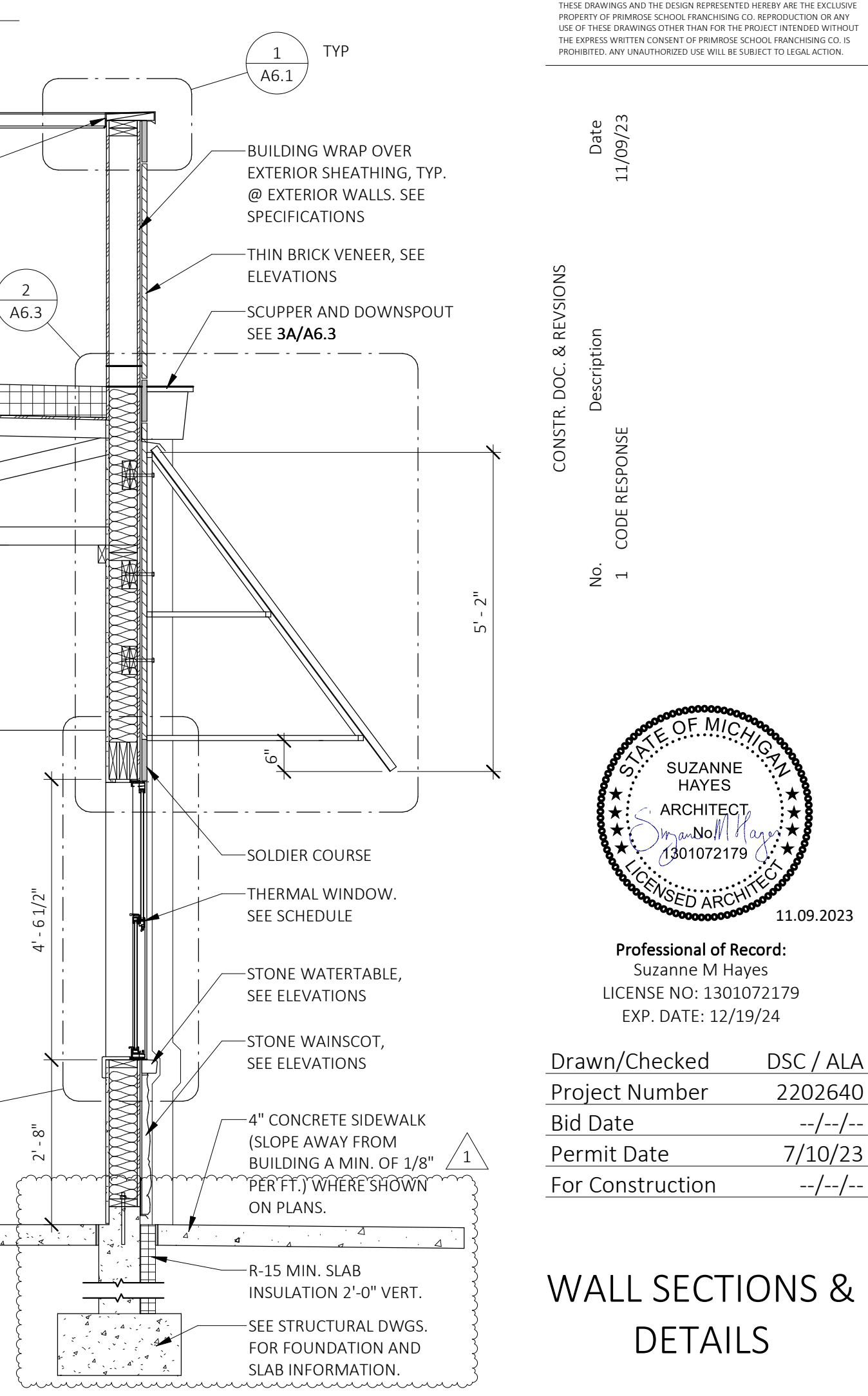
B
A6.1
WALL SECTION
SCALE: 1/2" = 1'-0"



C
A6.1
WALL SECTION
SCALE: 1/2" = 1'-0"

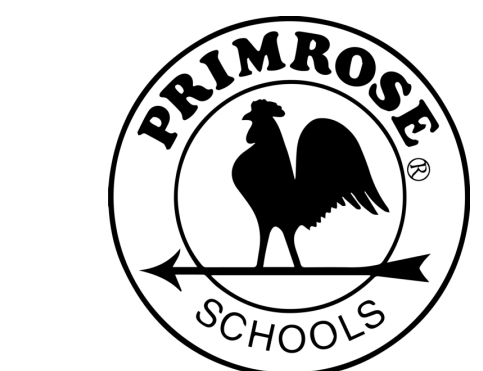


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A6.1
WALL SECTION
SCALE: 1/2" = 1'-0"



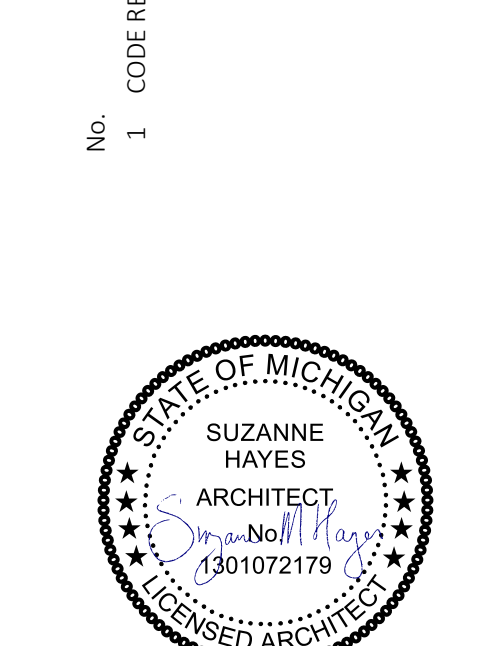
E
A6.1
WALL SECTION
SCALE: 1/2" = 1'-0"

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WALL SECTIONS & DETAILS

A6.1

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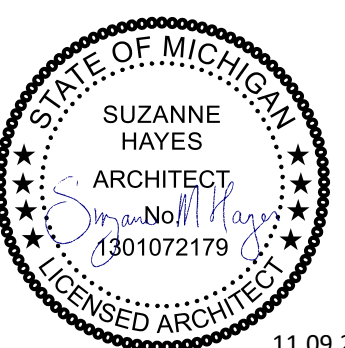


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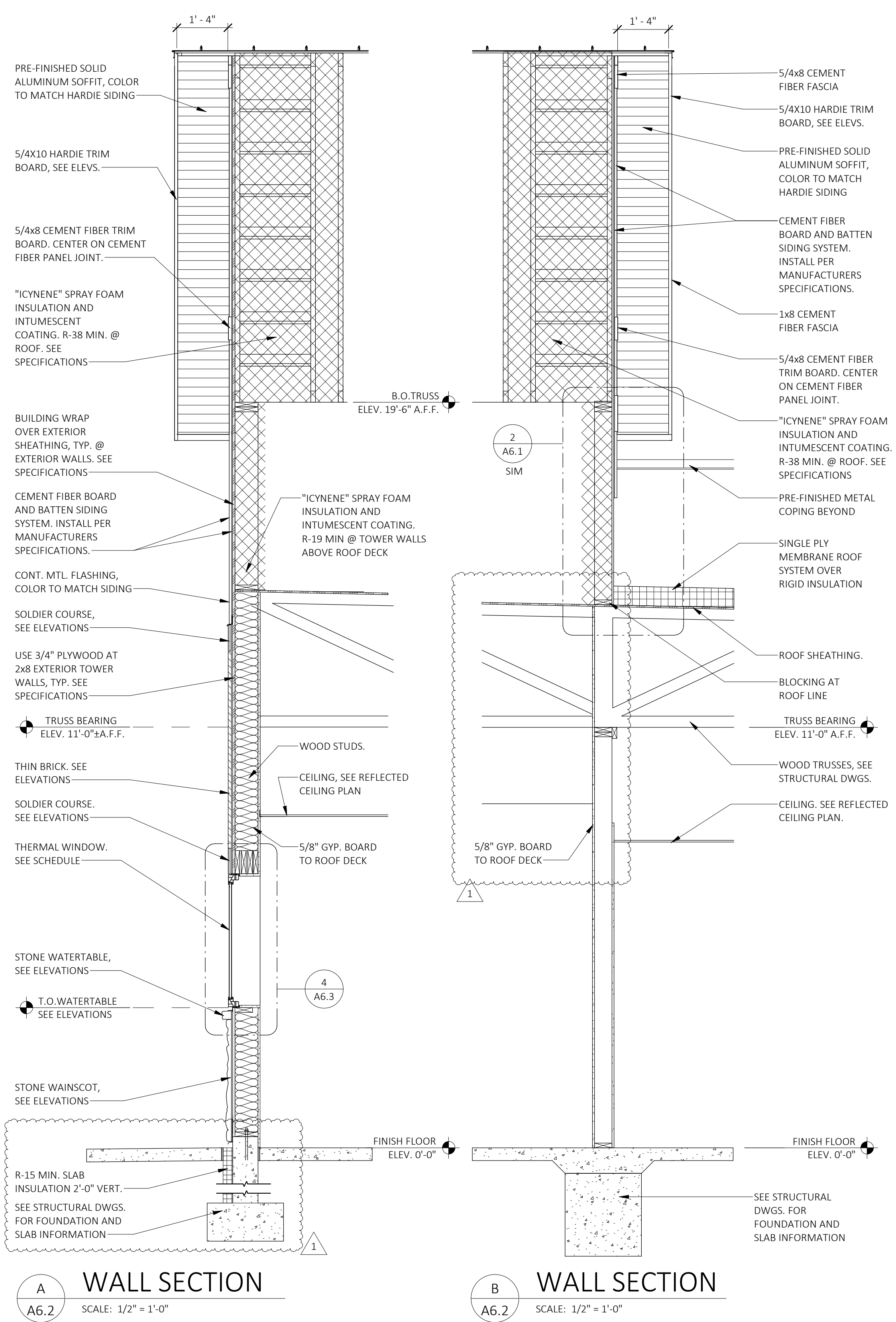


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WALL SECTIONS & DETAILS

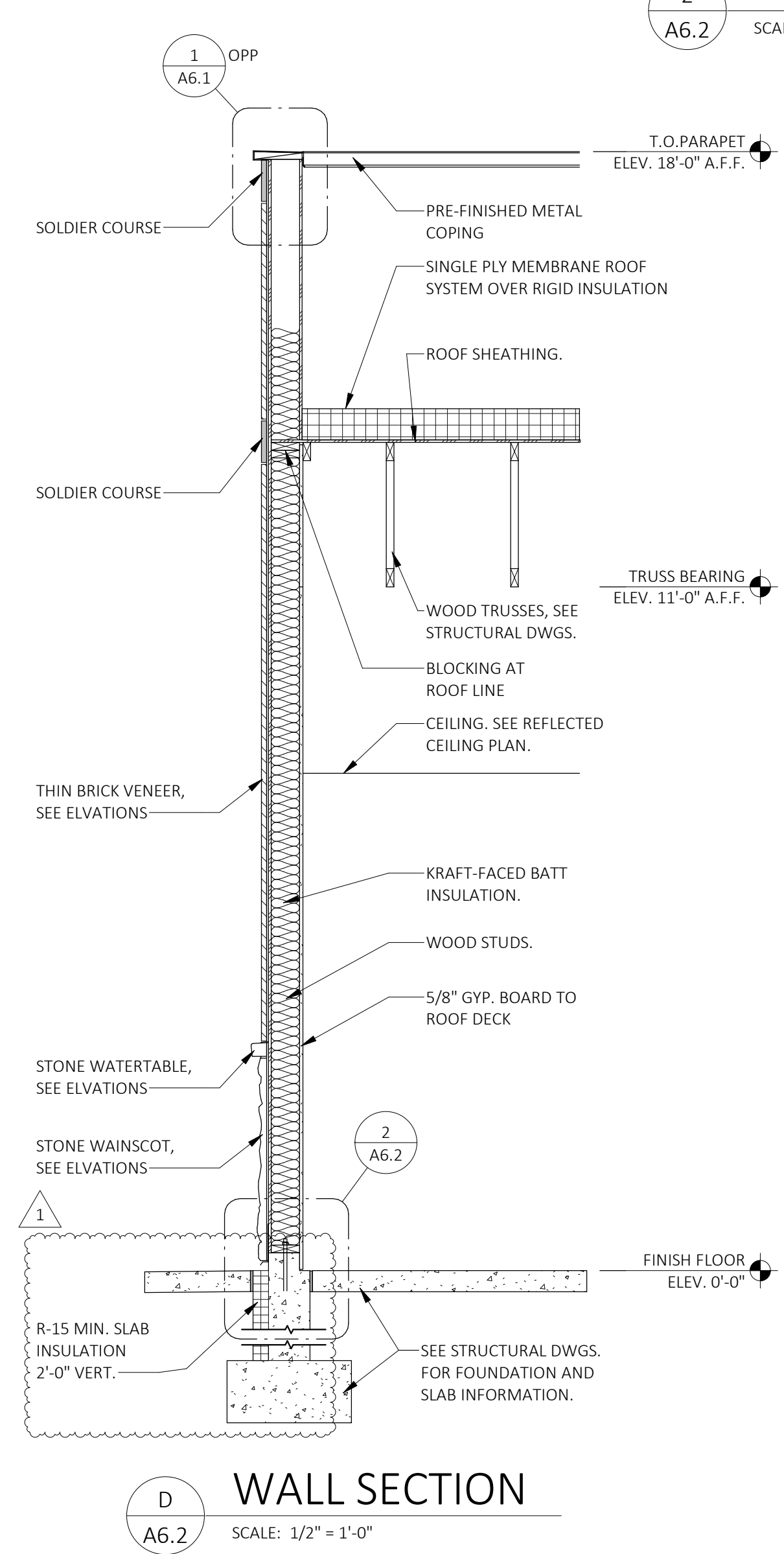
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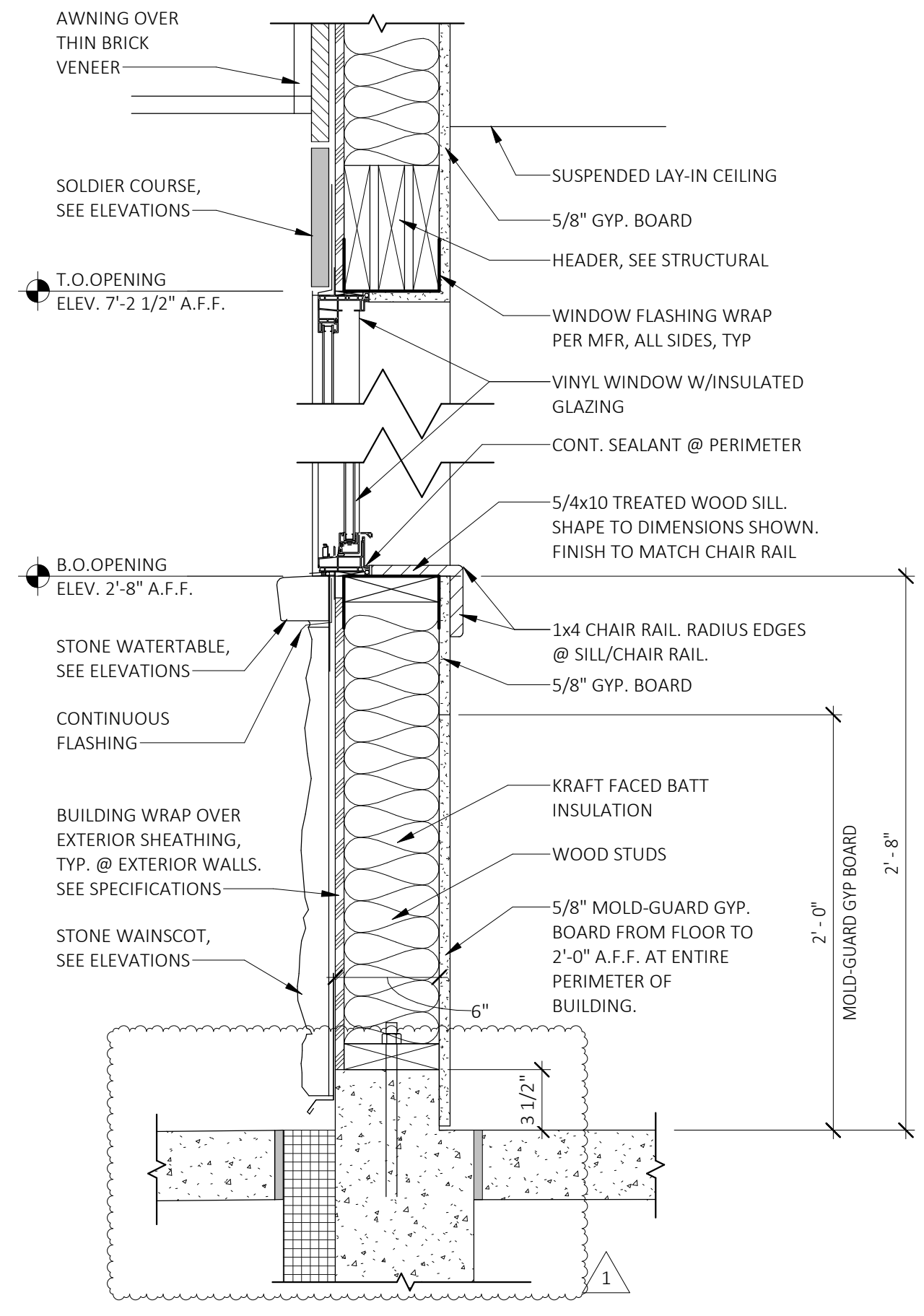
A WALL SECTION
A6.2 SCALE: 1/2" = 1'-0"

B WALL SECTION
A6.2 SCALE: 1/2" = 1'-0"

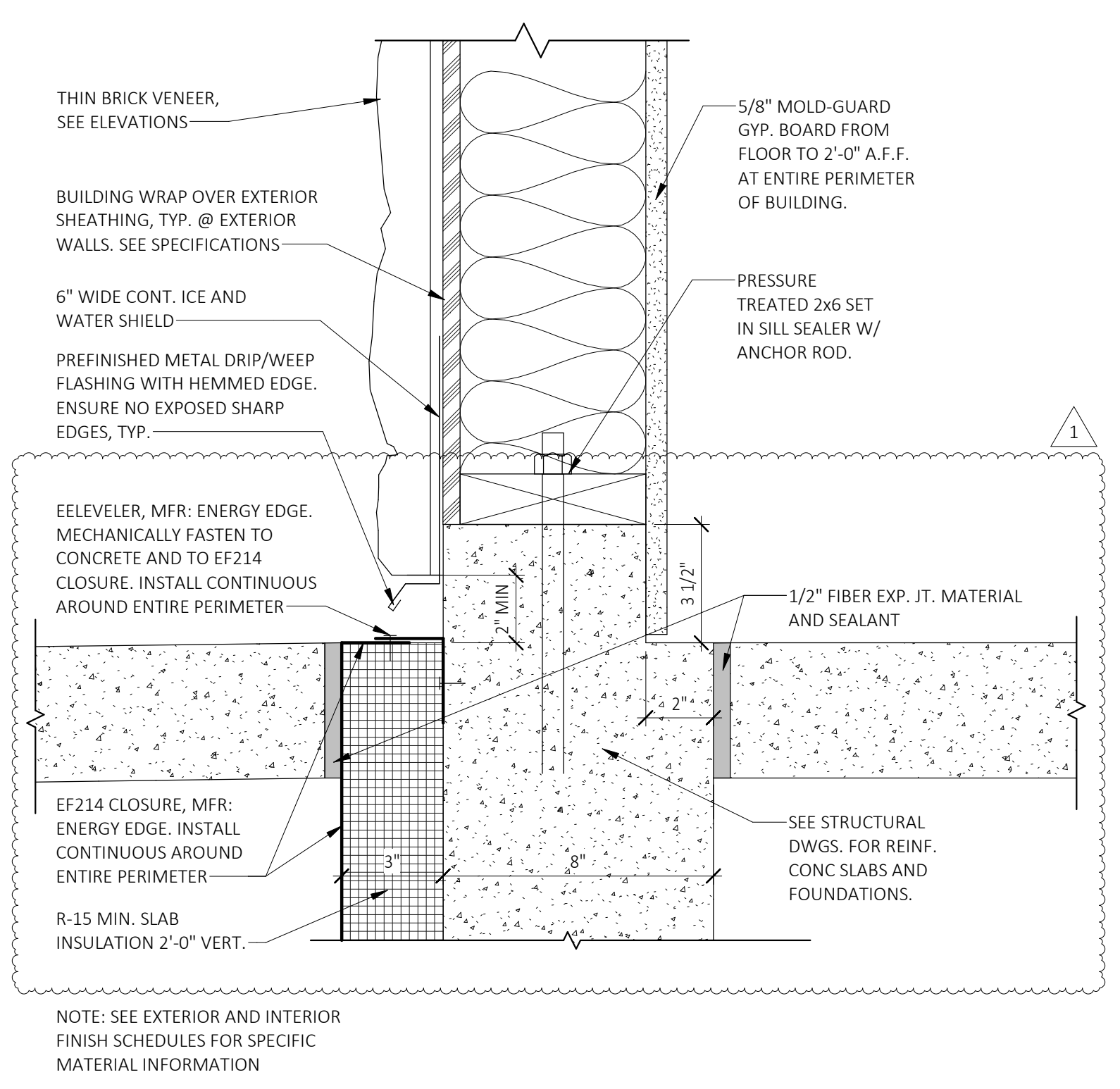
C NOT USED
A6.2 SCALE: 1/2" = 1'-0"



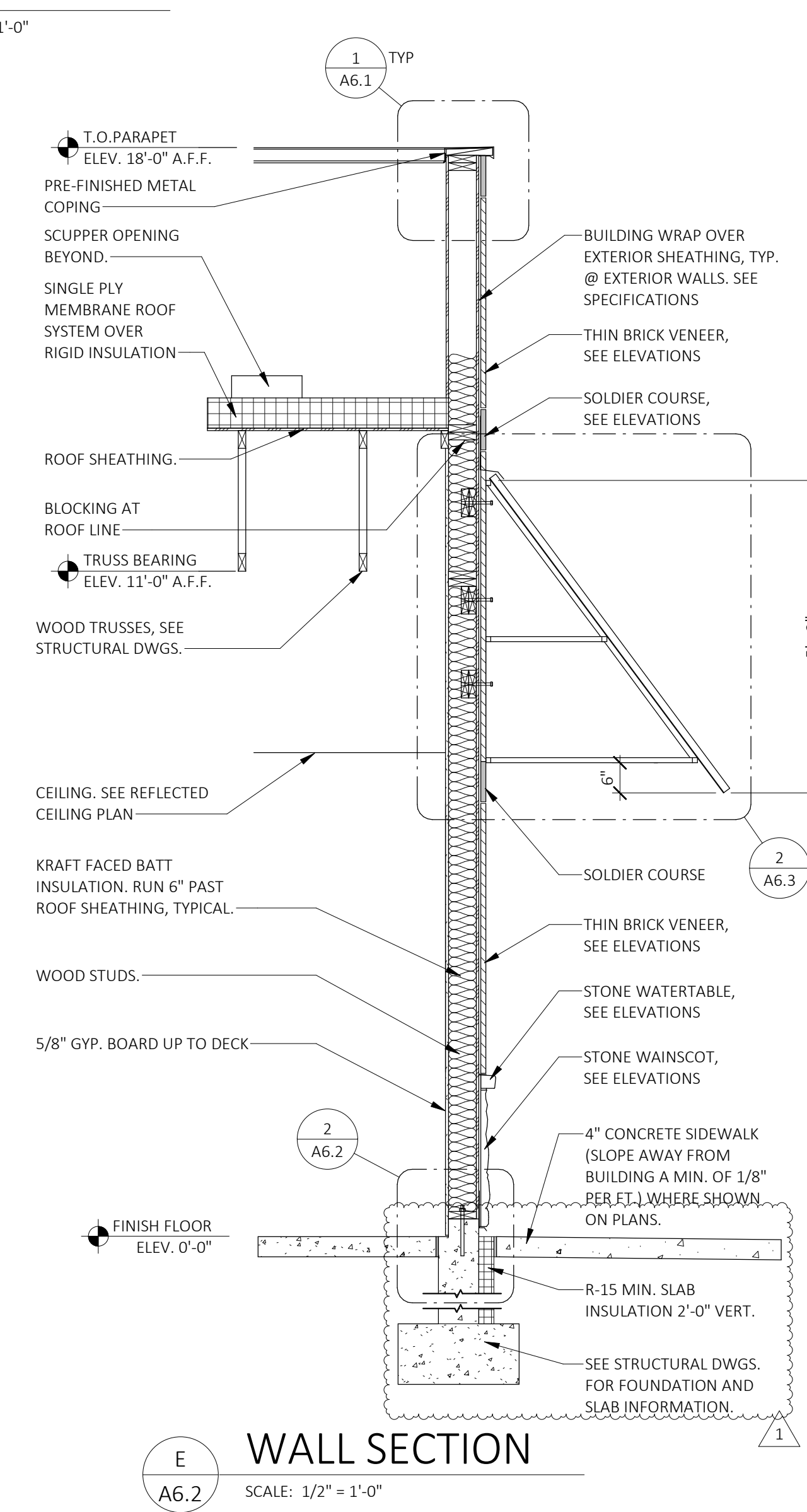
D WALL SECTION
A6.2 SCALE: 1/2" = 1'-0"



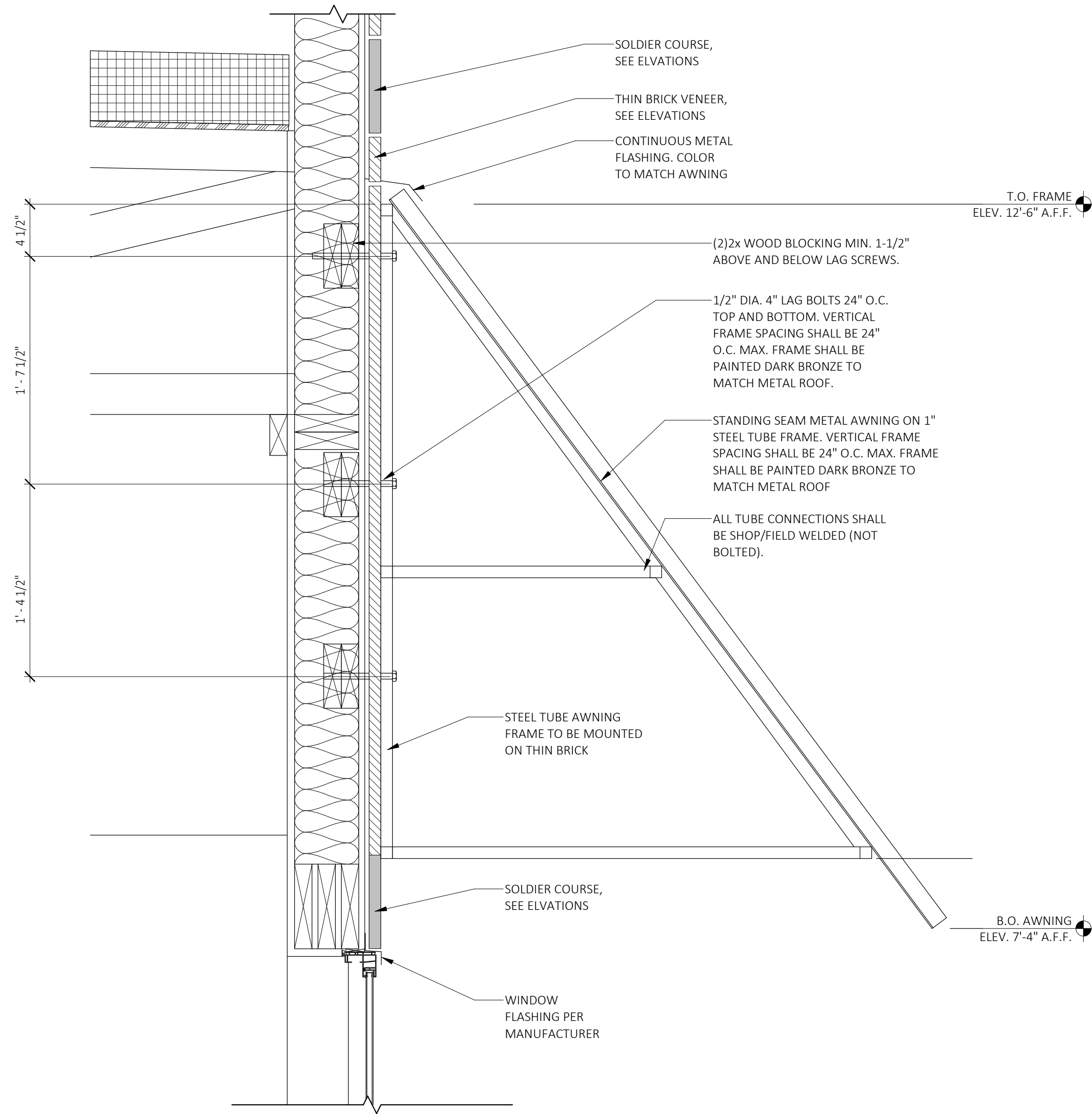
1 WINDOW
A6.2 SCALE: 1 1/2" = 1'-0"



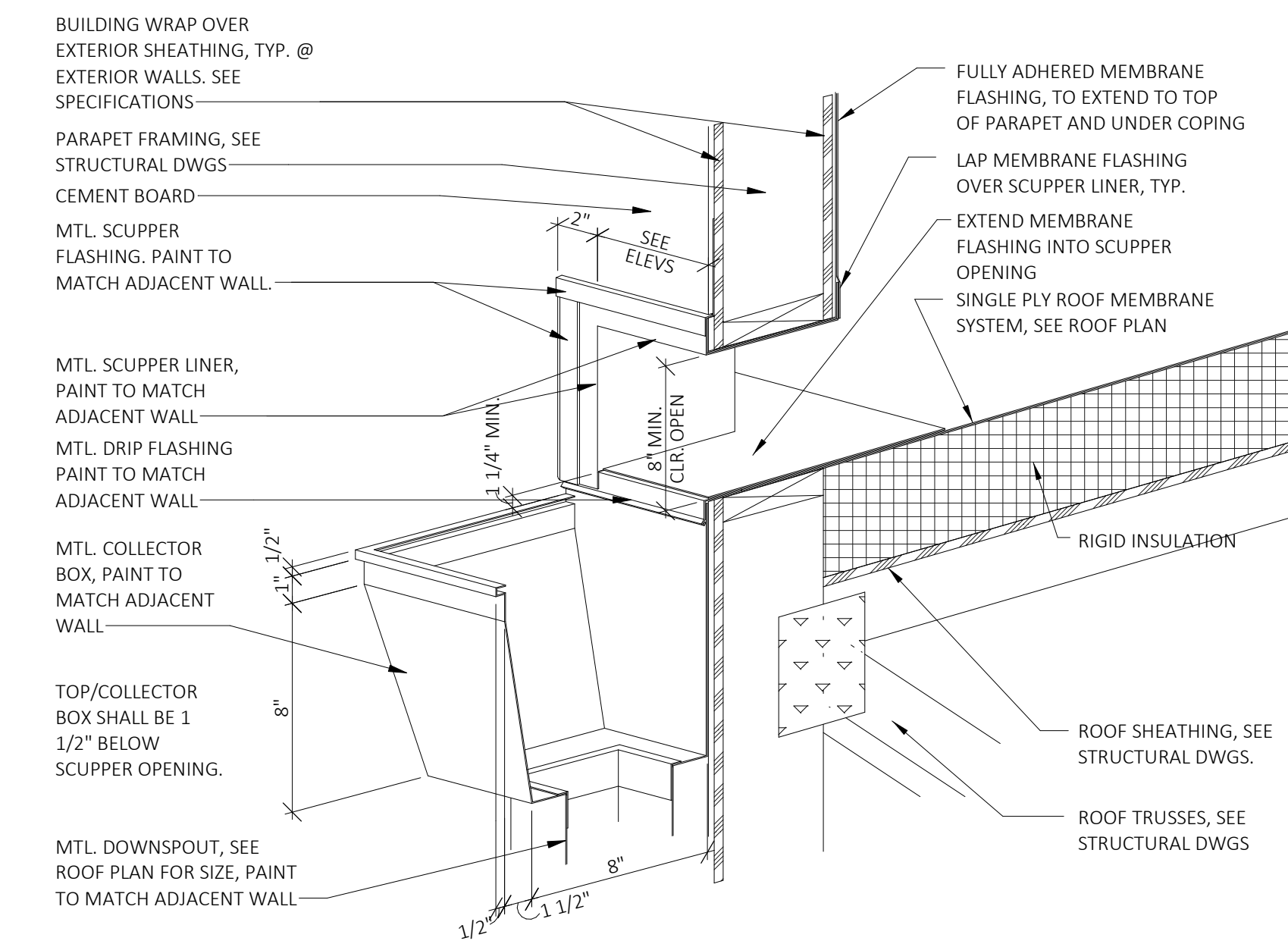
2 BASE WALL
A6.2 SCALE: 3" = 1'-0"



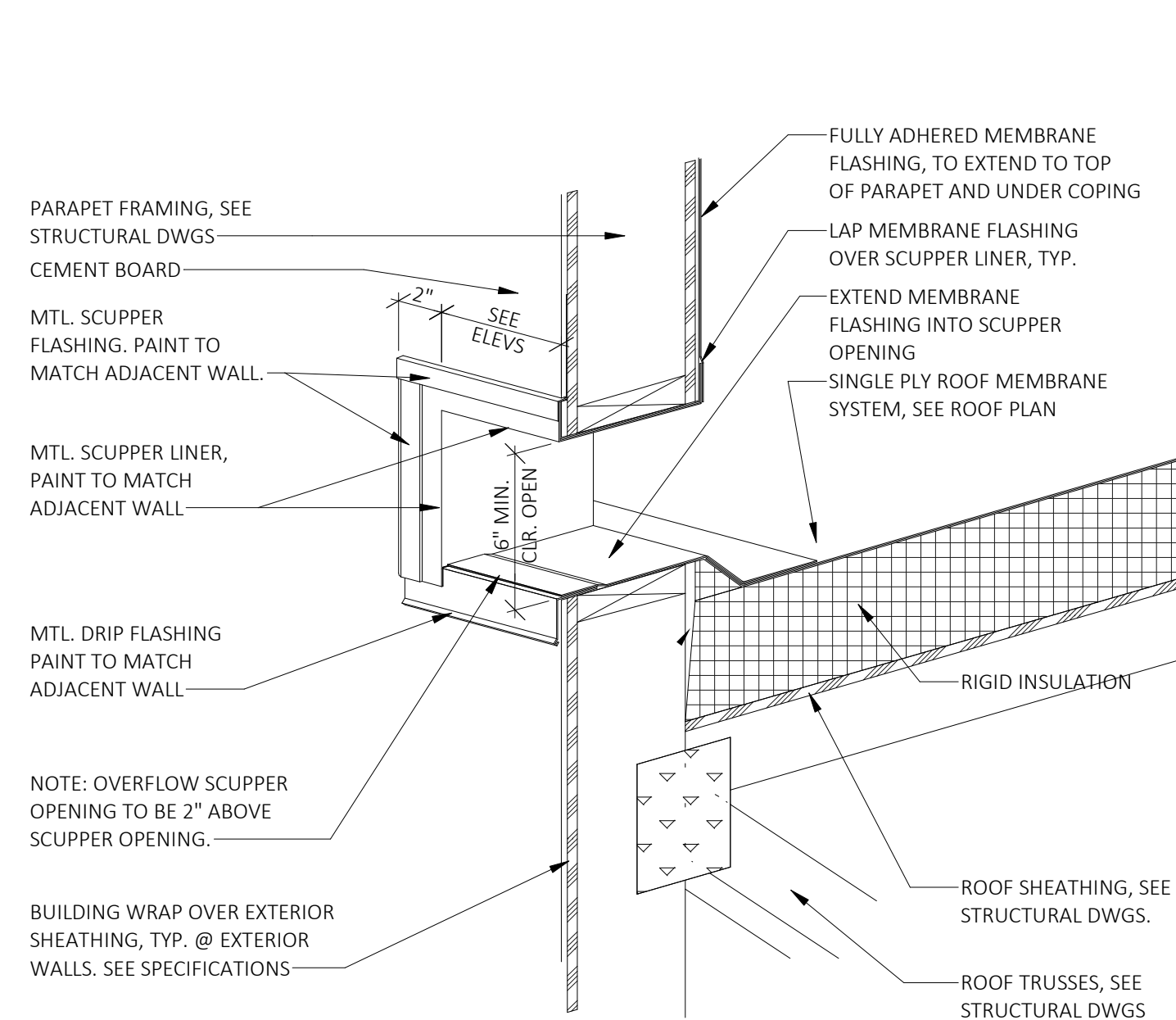
E WALL SECTION
A6.2 SCALE: 1/2" = 1'-0"



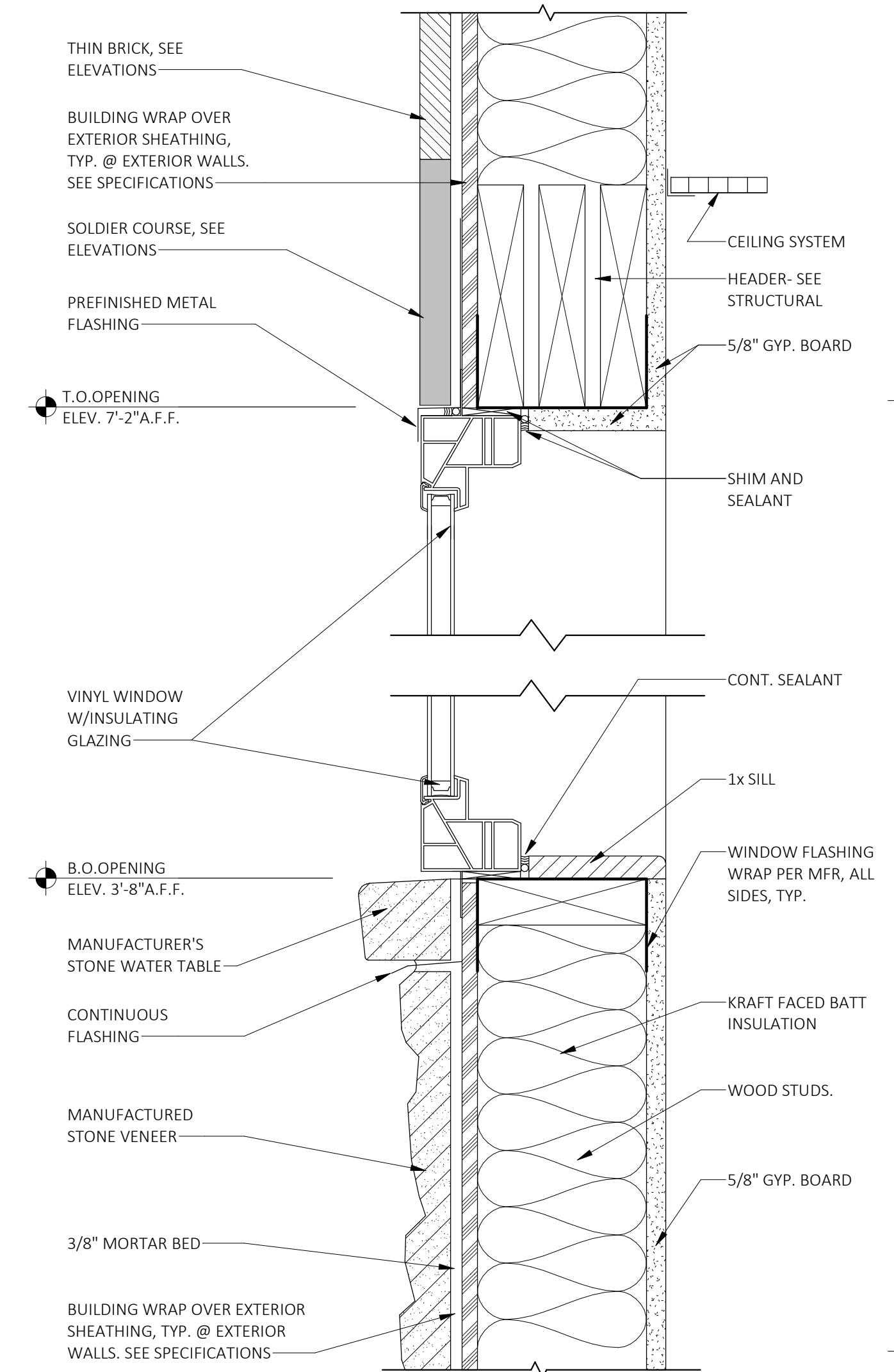
2 TYP. AWNING SECTION
A6.3 SCALE: 1 1/2" = 1'-0"



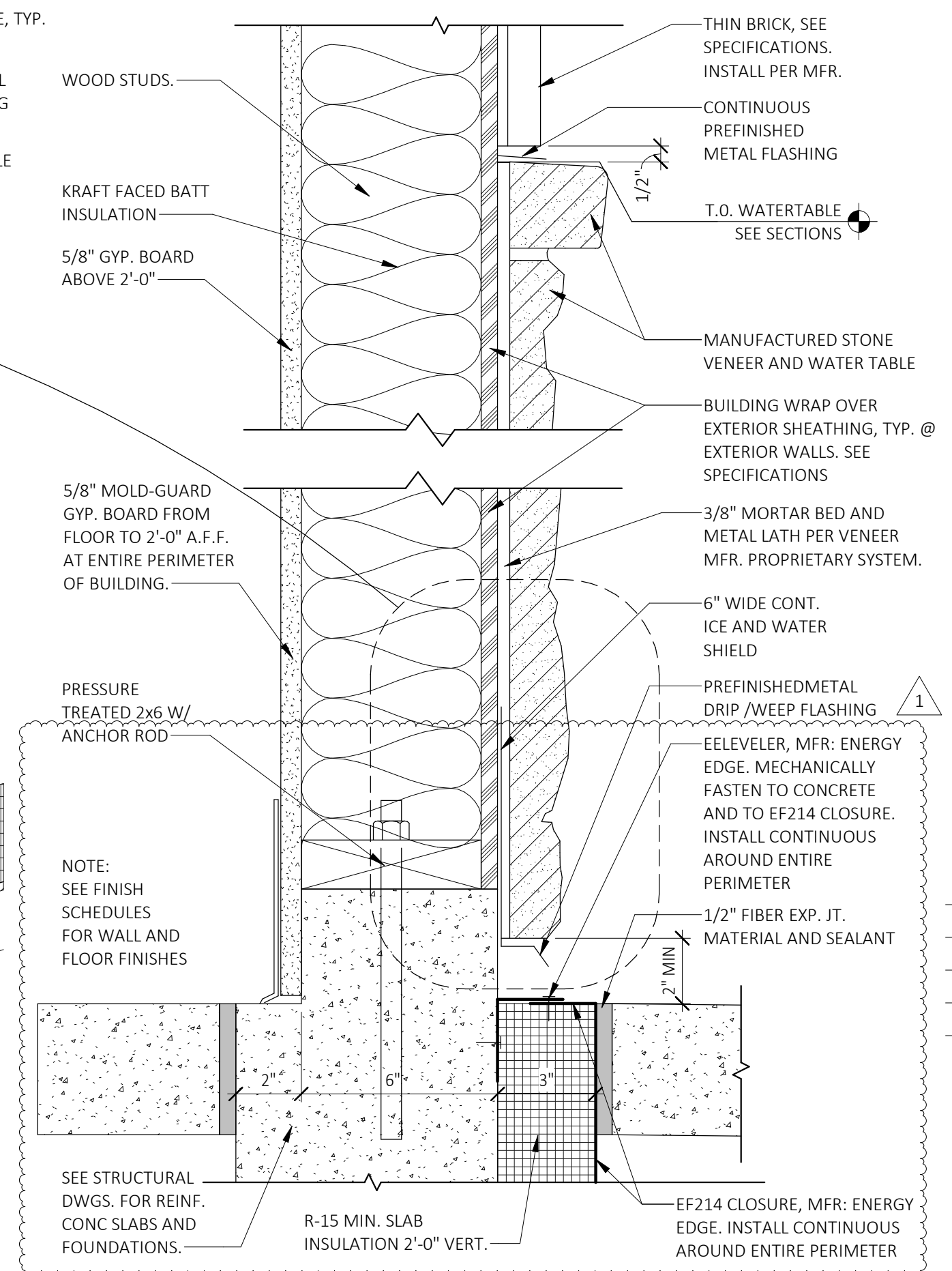
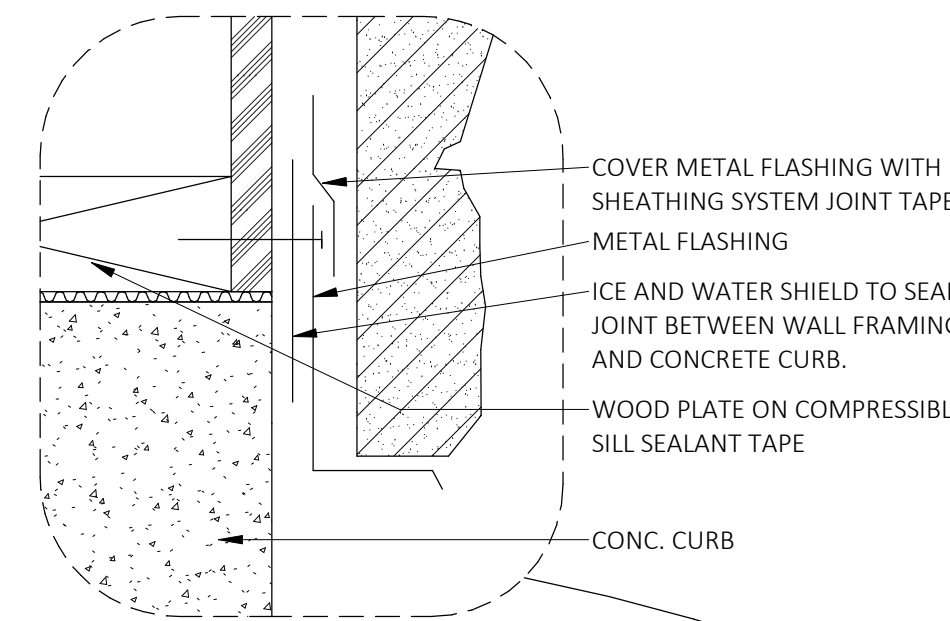
3A SCUPPER
A6.3 SCALE: 1 1/2" = 1'-0"



3B OVERFLOW DRAIN
A6.3 SCALE: 1 1/2" = 1'-0"



4 SECTION @ OFFICE WINDOW
A6.3 SCALE: 3" = 1'-0"

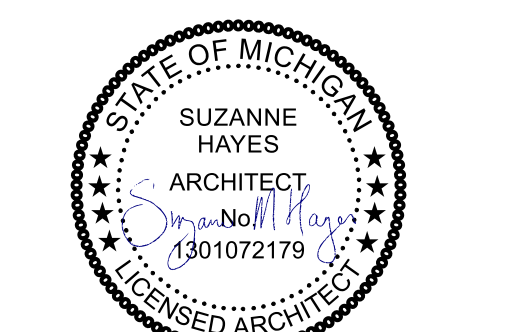


5 SECTION @ STONE VENEER
A6.3 SCALE: 3" = 1'-0"



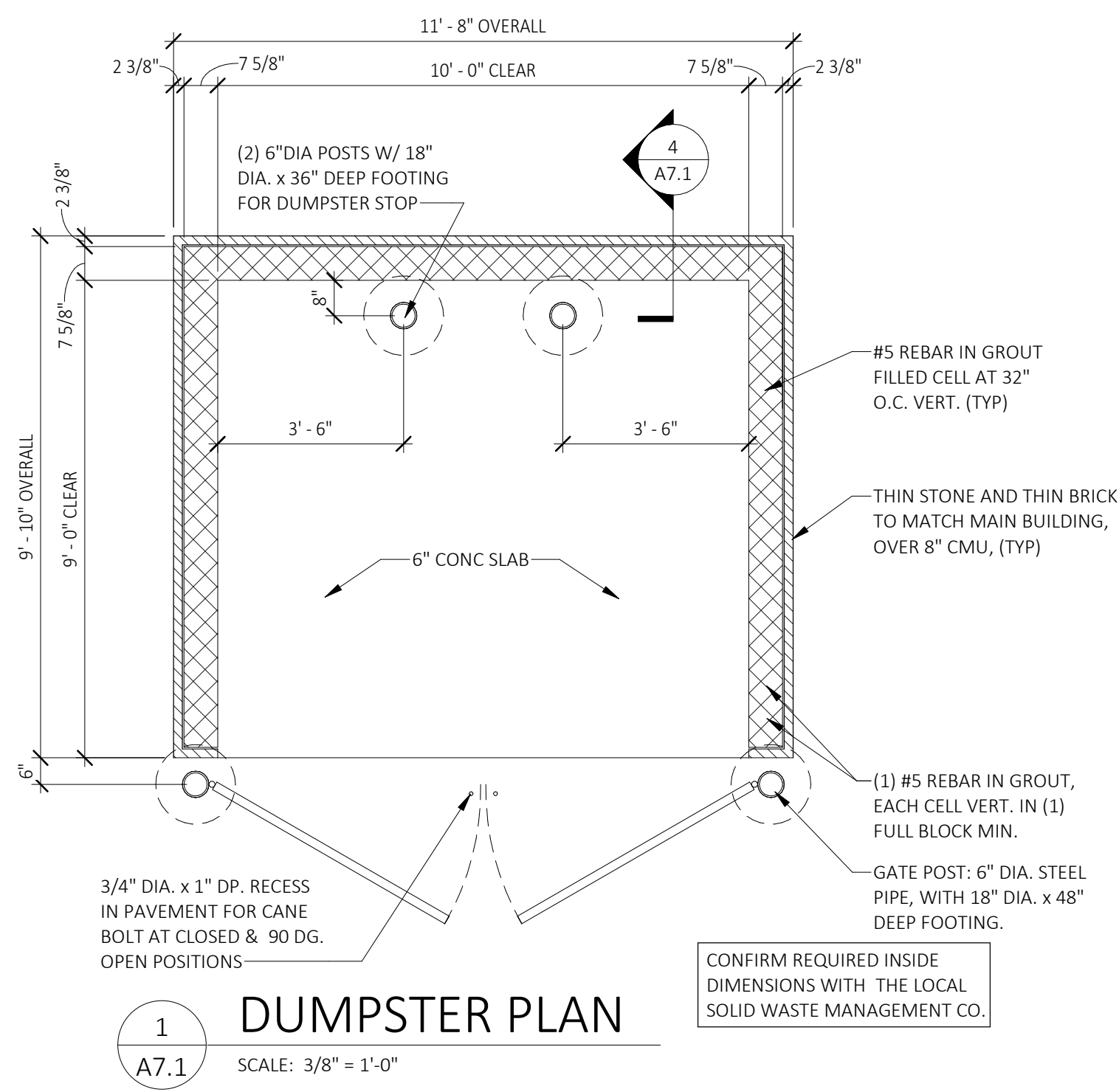
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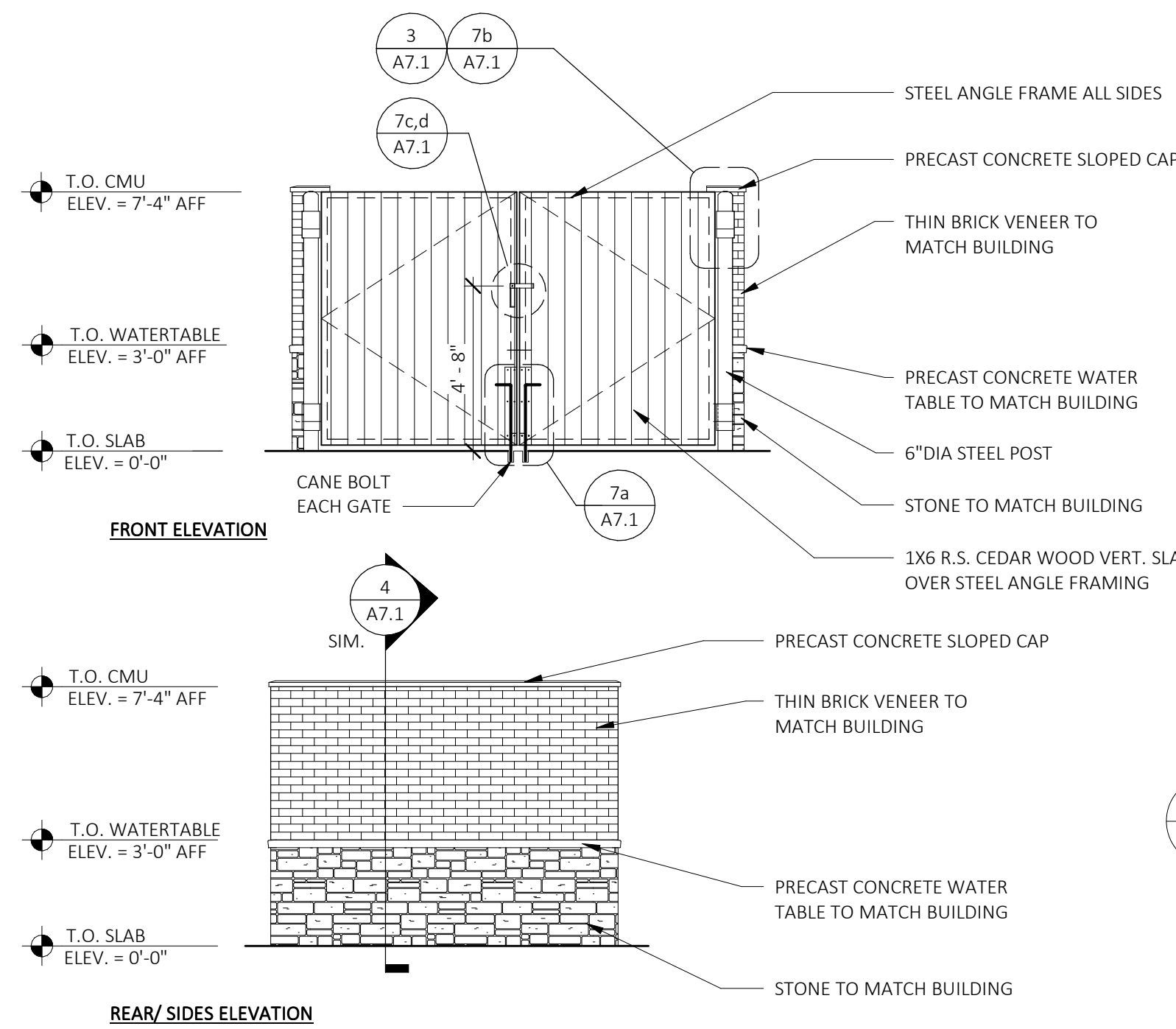
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1 DUMPSTER PLAN
A7.1 SCALE: 3/8" = 1'-0"

CONFIRM REQUIRED INSIDE DIMENSIONS WITH THE LOCAL SOLID WASTE MANAGEMENT CO.

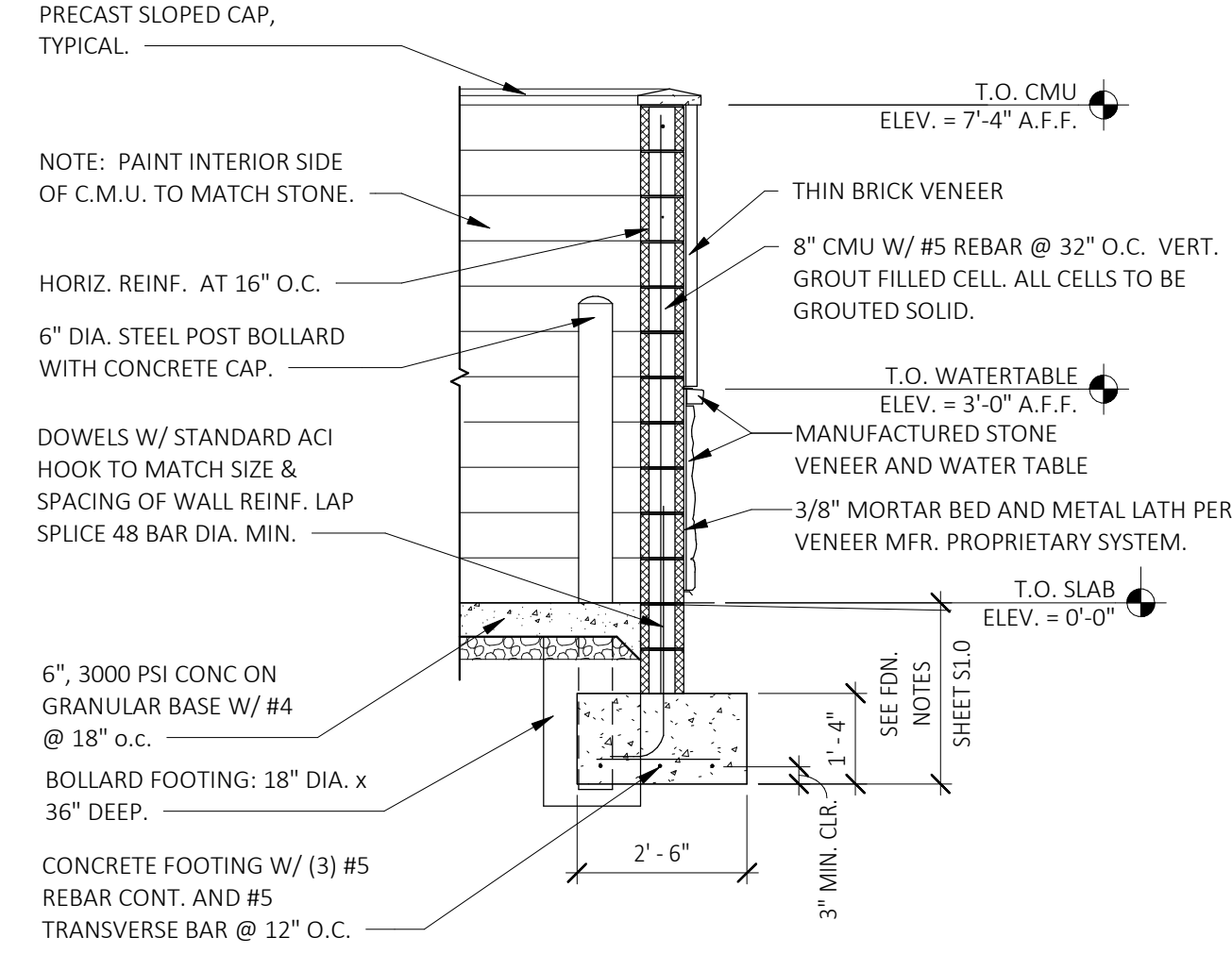


2 DUMPSTER ELEVATIONS
A7.1 SCALE: 1/4" = 1'-0"

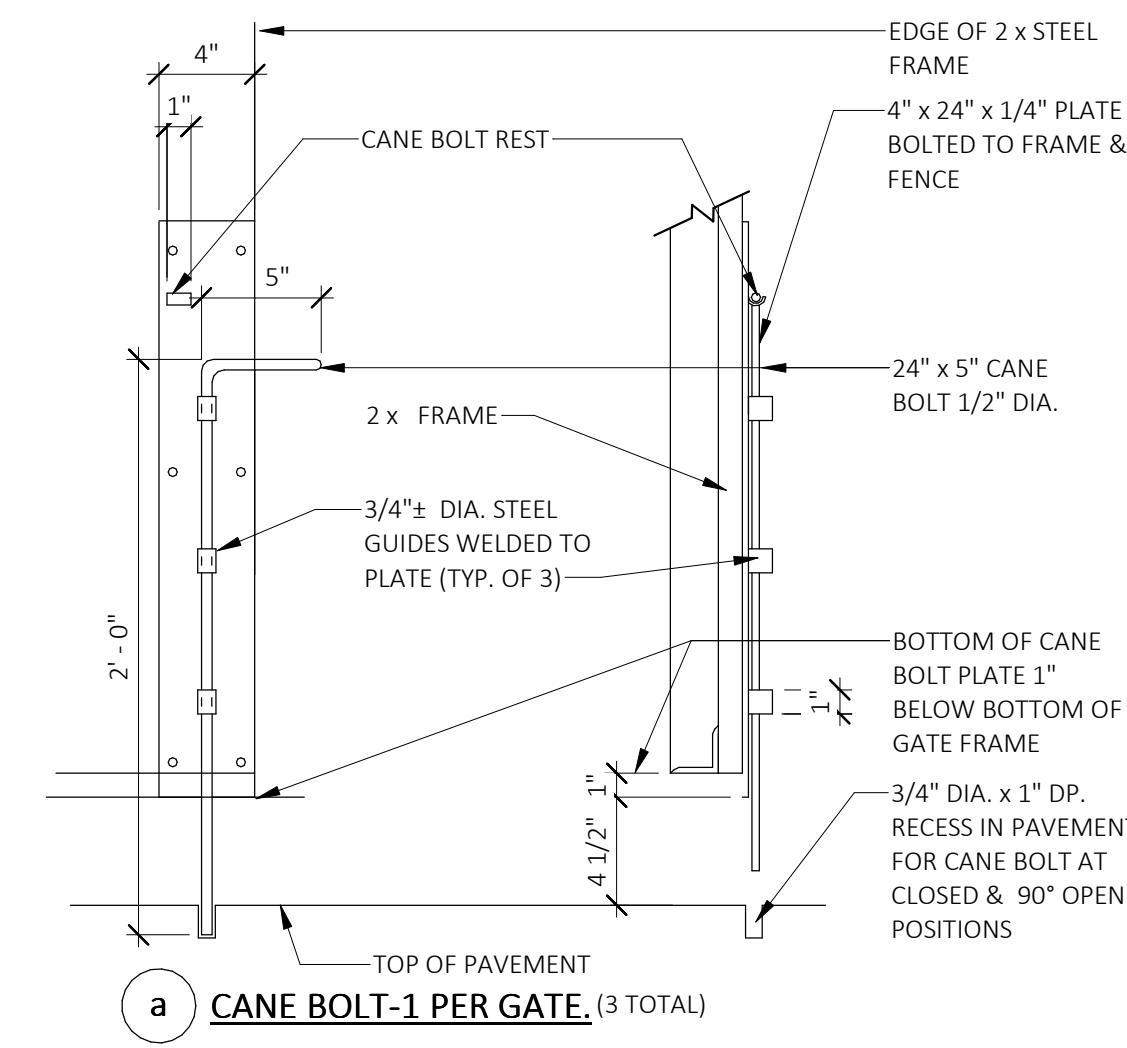
5 NOT USED
A7.1 SCALE: 1 1/2" = 1'-0"

7 HARDWARE
A7.1 SCALE: 1 1/2" = 1'-0"

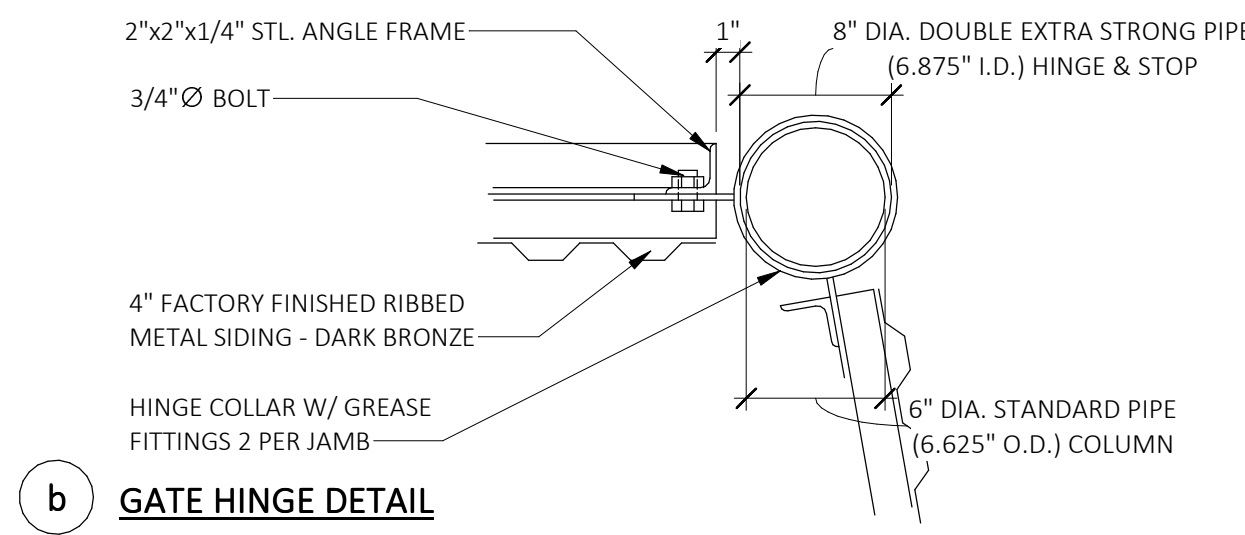
9 NOT USED
A7.1 SCALE: 3/8" = 1'-0"



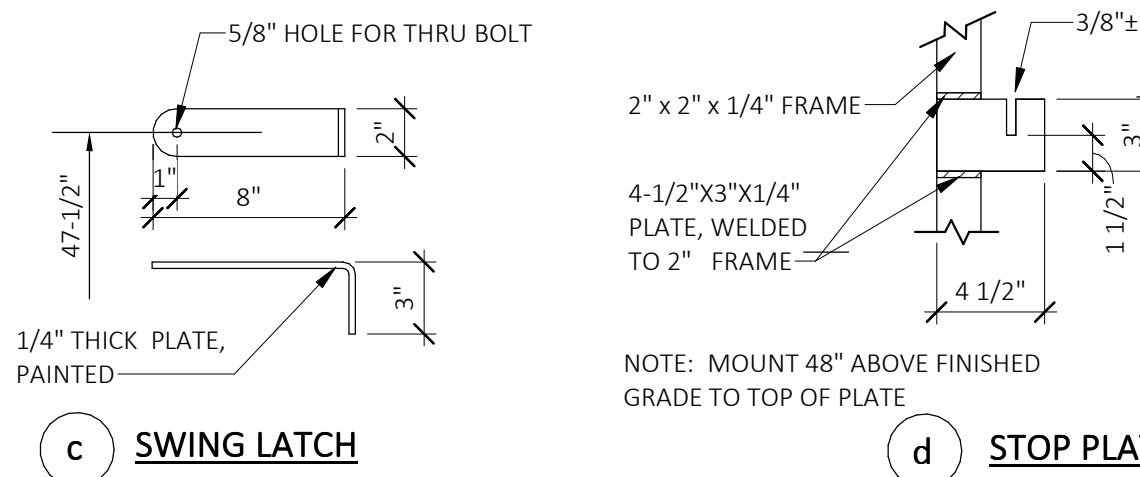
4 DUMPSTER ENCLOSURE SECTION
A7.1 SCALE: 3/8" = 1'-0"



a CANE BOLT-1 PER GATE (3 TOTAL)

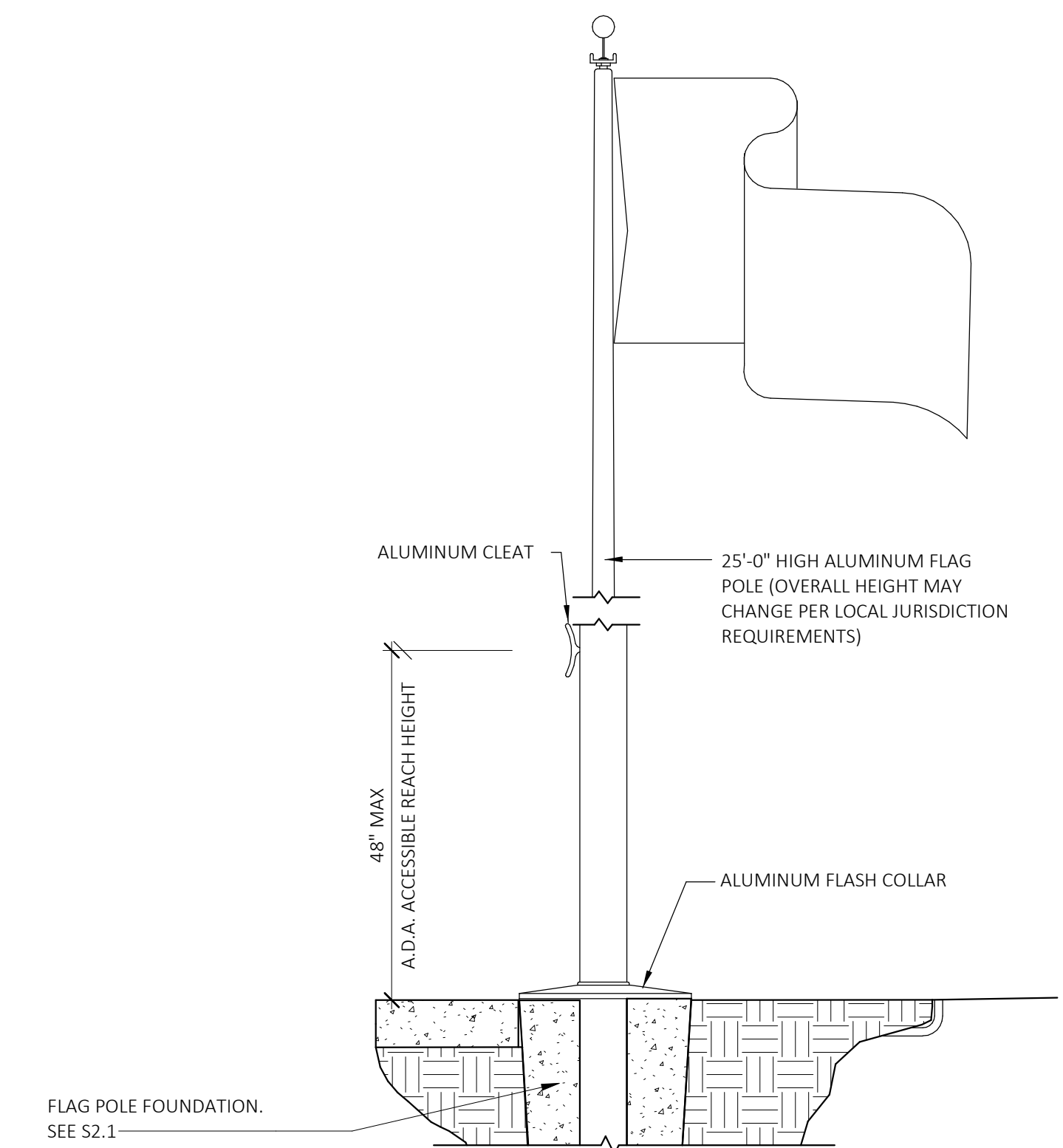


b GATE HINGE DETAIL

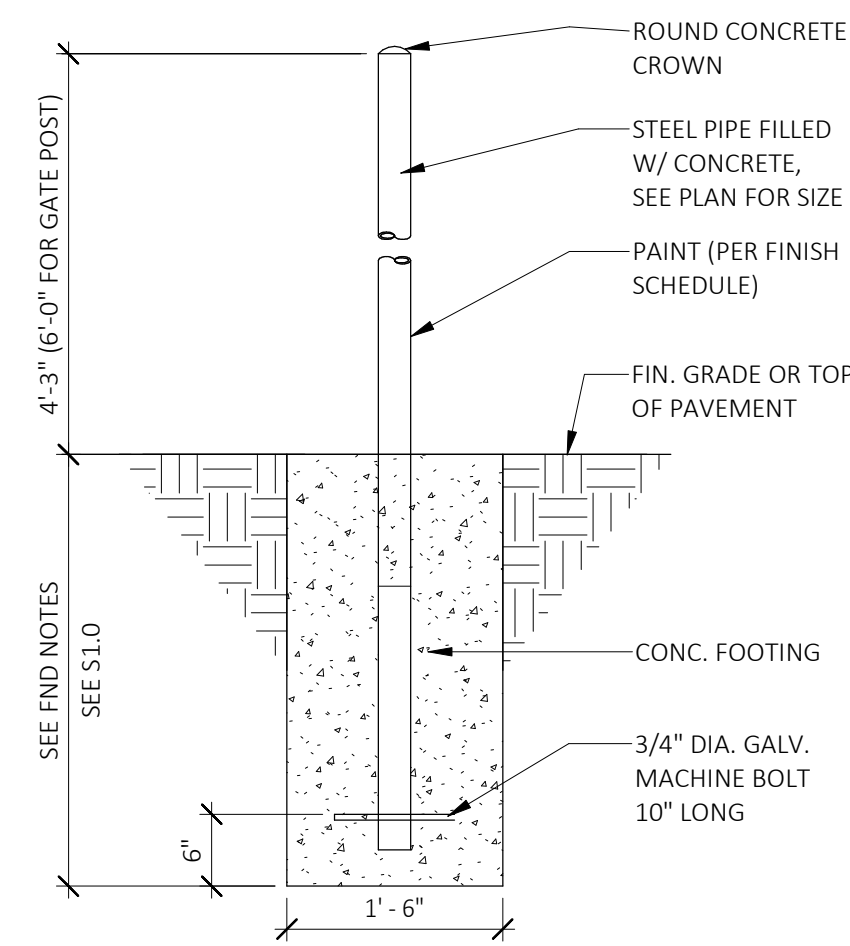


c SWING LATCH

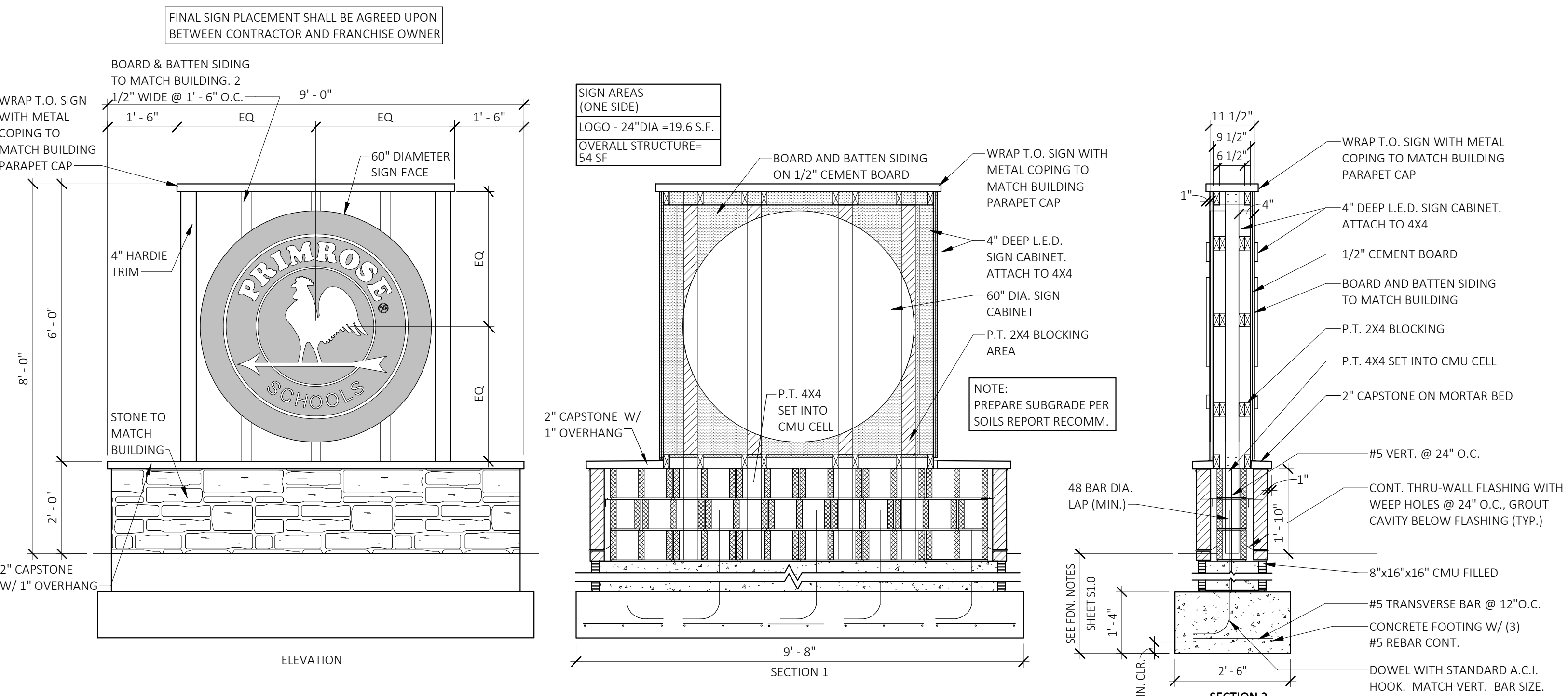
d STOP PLATE



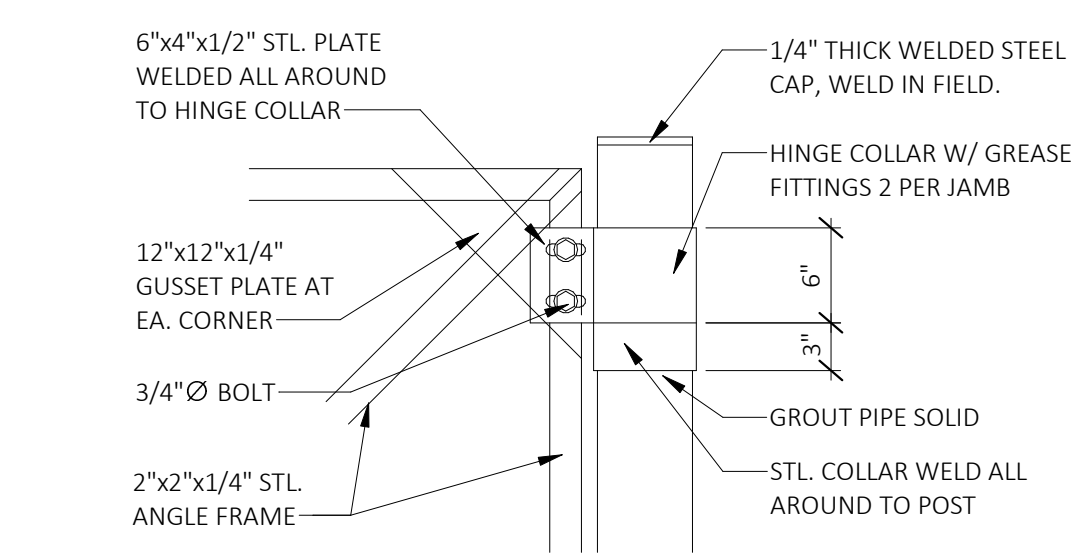
8 FLAG POLE
A7.1 SCALE: 1" = 1'-0"



6 BOLLARD POST
A7.1 SCALE: 3/4" = 1'-0"



10 MONUMENT SIGN
A7.1 SCALE: 1/2" = 1'-0"



3 HINGE
A7.1 SCALE: 1/2" = 1'-0"

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43455 W. 10 MILE ROAD
NOVI, MI 48375



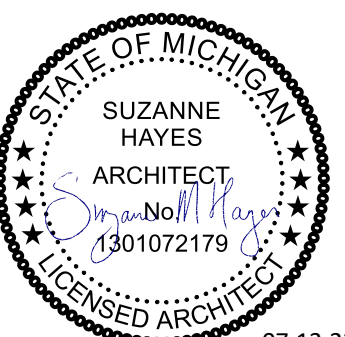
PRIMROSE SCHOOL FRANCHISING COMPANY
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ATLANTA, GEORGIA 30339 S640
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Date

CONSTR. DOC. & REVISIONS

Description

No.

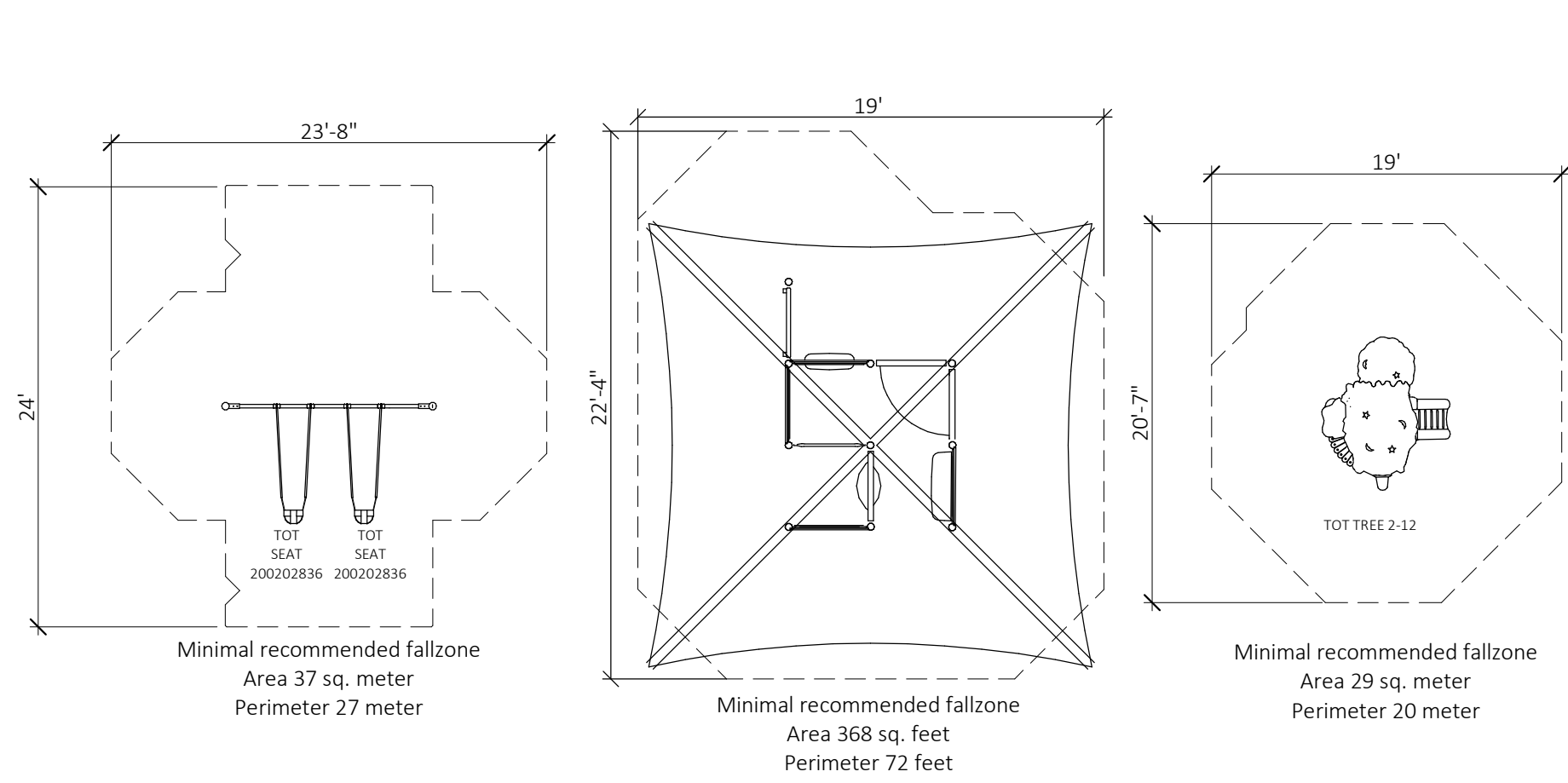


Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

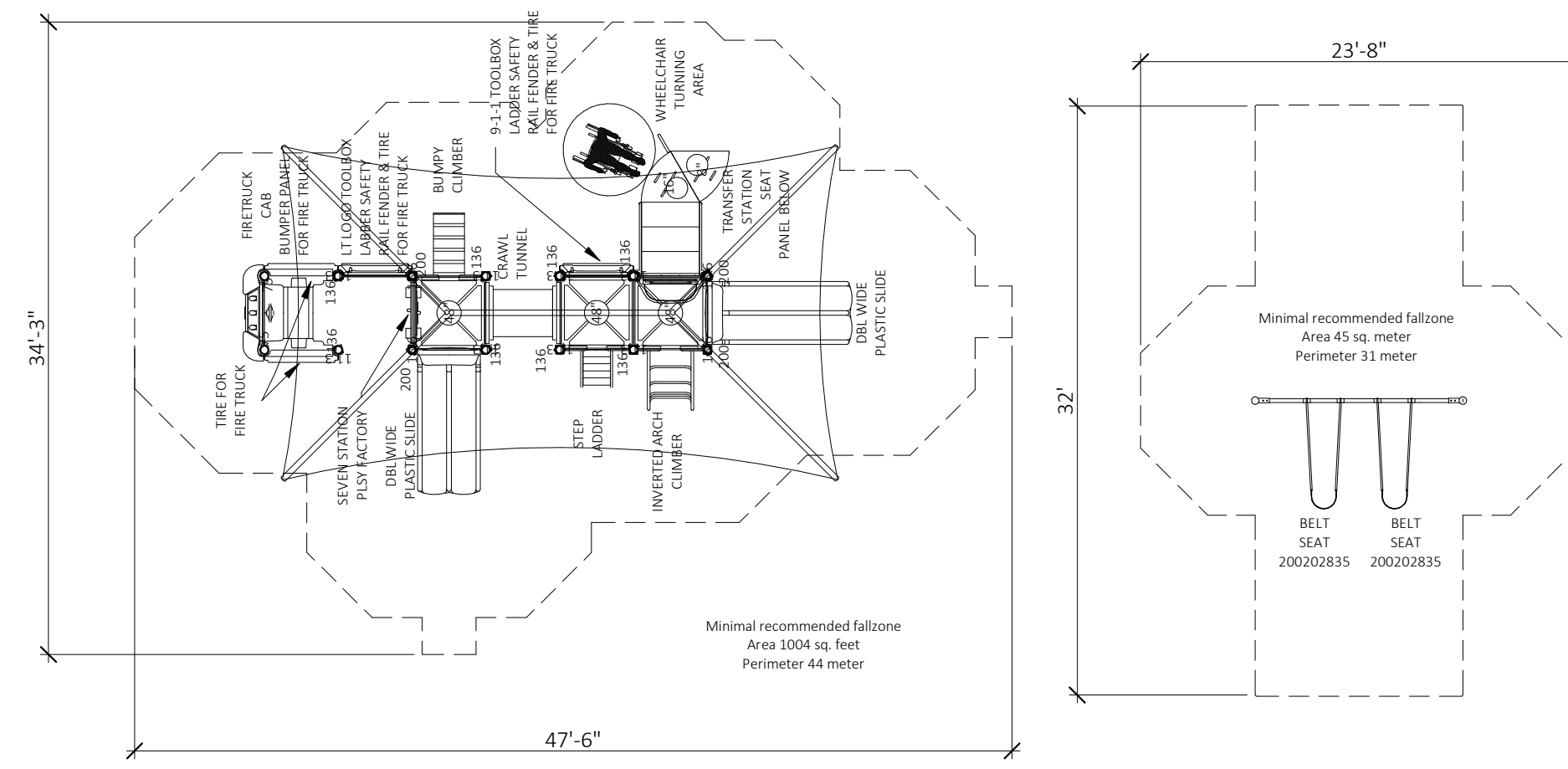
Drawn/Checked DSC / ALA
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

SITE DETAILS

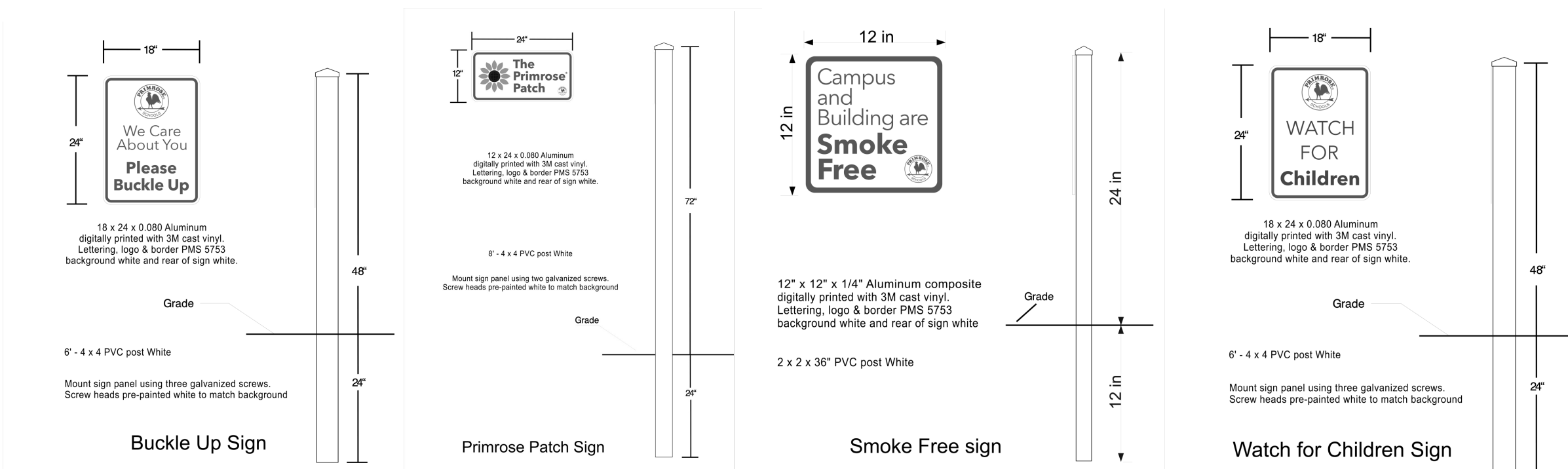
A7.1



1 EARLY PRESCHOOL PLAYGROUND EQUIPMENT
SCALE: NTS

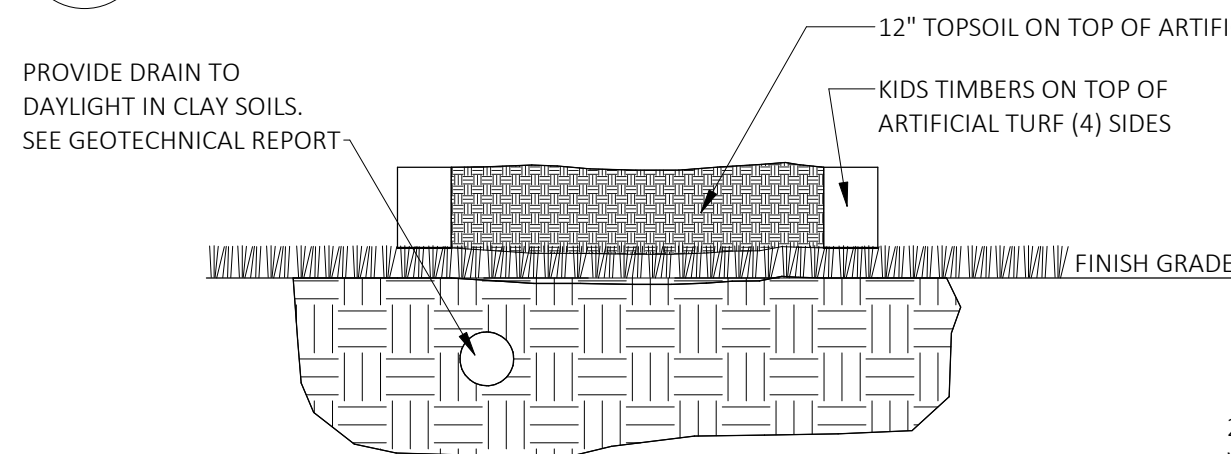


2 AFTER SCHOOL / PRESCHOOL PLAYGROUND EQUIPMENT
SCALE: NTS

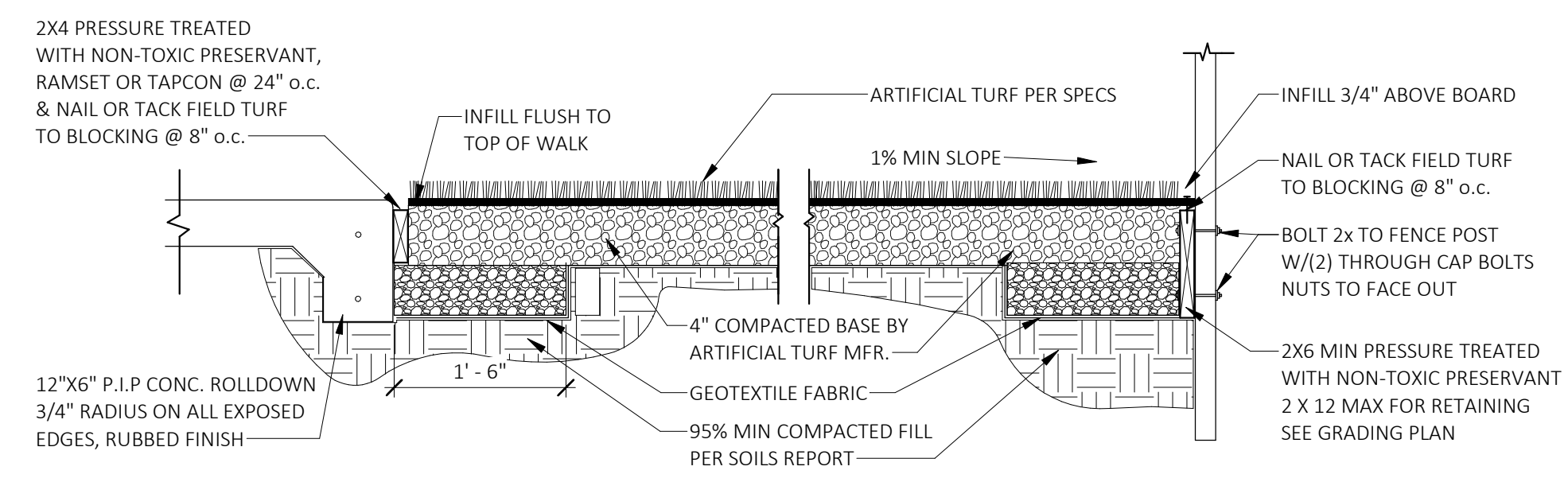


3 SITE SIGNAGE PACKAGE
SCALE: NTS

4 NOT USED
SCALE: 3/4" = 1'-0"



6 PRIMROSE PATCH
SCALE: 3/4" = 1'-0"



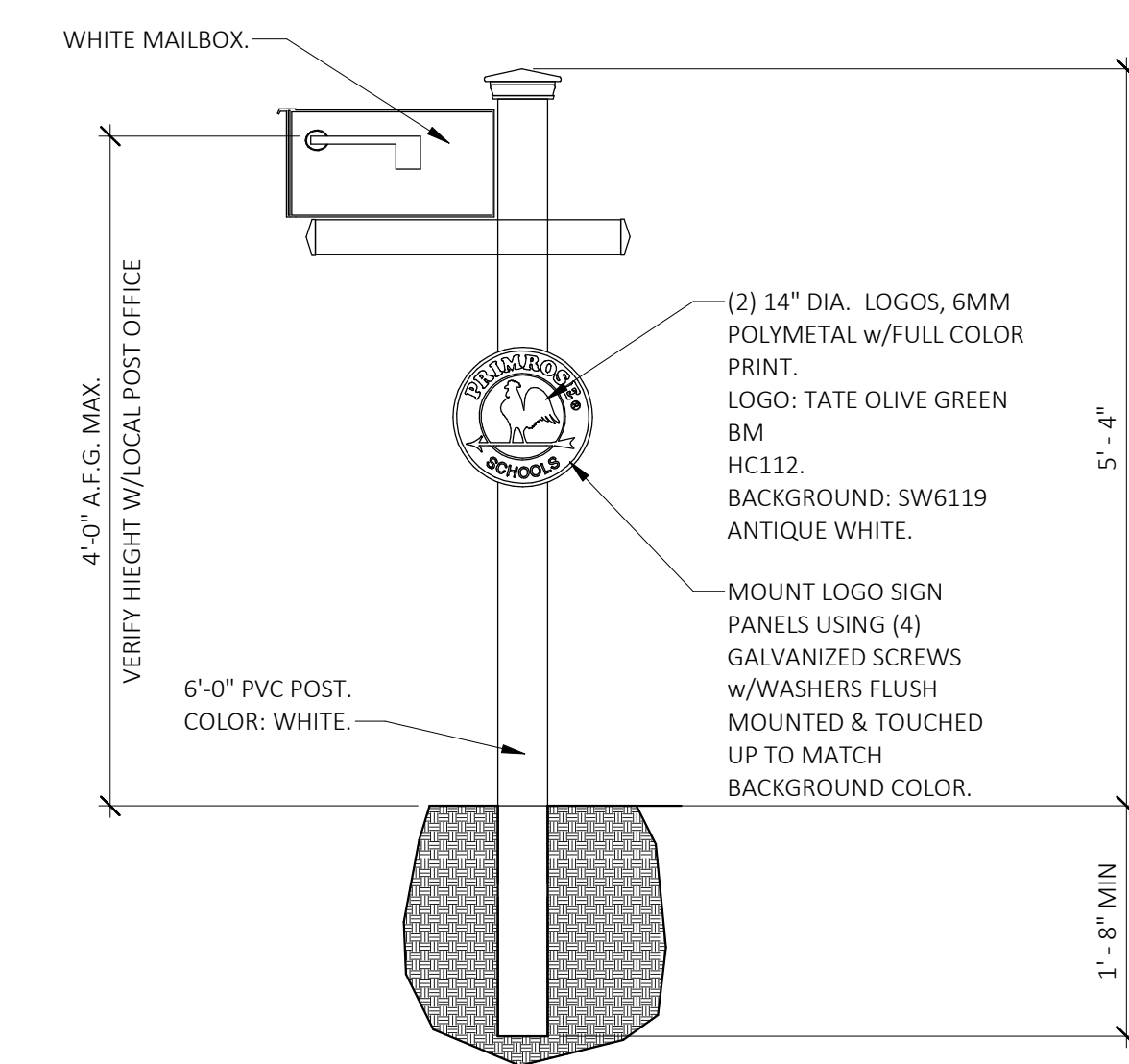
7 TYP. CONCRETE EDGE
SCALE: 3/4" = 1'-0"

8 ARTIFICIAL TURF
SCALE: 3/4" = 1'-0"

NOTES:
FALL SURFACING SHALL COMPLY WITH ASTM F1951 FOR WHEELCHAIR ACCESSIBILITY & ASTM F1292 FOR FALL ATTENUATION.

PLAYGROUND EQUIPMENT GENERAL NOTES:

1. THE AMERICAN WITH DISABILITIES ACT (ADA) MAY REQUIRE THAT YOU MAKE YOUR PARK AND/OR PLAYGROUND ACCESSIBLE WHEN VIEWED IN ITS ENTIRETY. PLEASE CONSULT YOUR LEGAL COUNSEL TO DETERMINE IF THE ADA APPLIES TO YOU.
2. FOR PLAYGROUND EQUIPMENT TO BE CONSIDERED ACCESSIBLE, ACCESSIBLE SURFACING MUST BE UTILIZED IN APPLICABLE AREAS.
3. ALTHOUGH A PARTICULAR PLAYGROUND DESIGN MAY NOT MEET THE PROPOSED ACCESS BOARD REGULATIONS IN REGARDS TO THE APPROPRIATE NUMBER OF GROUND LEVEL EVENTS, THE ACTUAL PLAYGROUND MAY BE IN COMPLIANCE WHEN CONSIDERING PLAY COMPONENTS.
4. ALL DECK HEIGHTS ARE MEASURES FROM TOP OF GROUND COVER.
5. FALL ABSORBING GROUND COVER IS REQUIRED UNDER AND AROUND ALL PLAY EQUIPMENT.
6. THE MINIMUM RECOMMENDED FALL ZONE AROUND THE ENTIRE PLAY STRUCTURE IS SHOWN. THIS ZONE MUST BE FREE OF ALL TRIPPING OR COLLISION HAZARDS (E.ROOTS, ROCKS, BOARDER MATERIAL, ECT.).
7. PLAYGROUND EQUIPMENT MUST MEET THE PERFORMANCE AND SAFETY REQUIREMENTS OF ASTM FOR CHILDREN 2-12 YEARS OLD. NOT ALL EQUIPMENT MAY BE APPROPRIATE FOR ALL CHILDREN. SUPERVISION IS REQUIRED.
8. ALL POST LENGTHS ARE IDENTIFIED BY TEXT SHOWING THE POST LENGTHS, I.E. 96 REPRESENTS A 96-INCH POST, AND 2210 REPRESENTS A 2210MM POST.
9. THE REQUIREMENT FOR A KID KUBE INSTALLATION IS THAT A LEVEL SITE BE USED.
10. THE REQUIREMENT FOR A PLAY BUILDER INSTALLATION IS THAT THE POST CANNOT BE SET PRIOR TO INSTALLING THE DECKS.
11. PICNIC TABLE/SANDBOX TO BE PLACED AT COSTUMER'S DISCRETION. DECK-TO-DECK ENCLOSE PANEL LOCATIONS ARE MARKED BY AN ASTERISK. THE HEIGHT OF EACH PANEL MAY BE FOUND BY SUBTRACTING THE LOWEST DECK FROM THE HIGHEST DECK TO WHICH THE DECK-TO-DECK ENCLOSE PANEL MOUNTS.
12. RUBBER FALL ZONE MATS SHALL BE PLACED AT THE END OF EACH PLAYGROUND SLIDE AND UNDERNEATH EACH SWING.



5 USPS MAIL BOX
SCALE: 3/4" = 1'-0"

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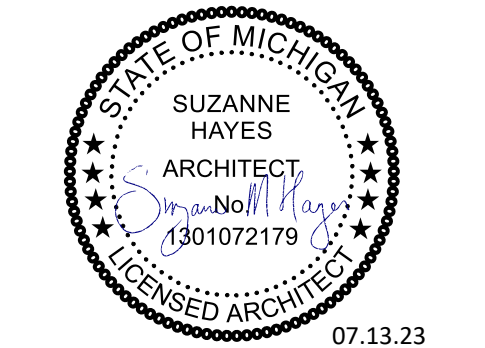


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Description

No.



Professional of Record:
Suzanne M Hayes
LICENSE NO: 1301072179
EXP. DATE: 12/19/24

Drawn/Checked	DSC / ALA
Project Number	2202640
Bid Date	--/--
Permit Date	7/10/23
For Construction	--/--

PLAYGROUND /
SITE DETAILS

A7.2

DESIGN CRITERIA:

- BUILDING CODE - 2015 MICHIGAN BUILDING CODE
- ROOF DEAD LOADS:
 - ROOFING MEMBRANE/INSULATION = 4.0 PSF
 - WOOD STRUCTURAL PANEL SHEATHING = 2.0 PSF
 - WOOD TRUSSES = 3.0 PSF
 - CEILINGS/MISCELLANEOUS = 4.0 PSF
 - MECHANICAL/ELECTRICAL/FIRE PROTECTION = 5.0 PSF
- MINIMUM ROOF LIVE LOAD: = 20.0 PSF
- SNOW LOADS:
 - GROUND SNOW LOAD, P_g = 25 PSF
 - FLAT ROOF SNOW LOAD, P_f = 19.3 PSF + DRIFT
 - DRIFT SURCHARGE LOAD, P_d = 53.8 PSF
 - WIDTH OF DRIFT, w = 12.5 FT
 - SLOPED ROOF SNOW LOAD, P_s = 21.2 PSF
 - SNOW EXPOSURE FACTOR, C_e = 1.0
 - SNOW LOAD IMPORTANCE FACTOR, I_s = 1.1
 - THERMAL FACTOR, C_t = 1.0
 - ROOF SLOPE FACTOR, C_s = 1.0
- WIND LOAD:
 - ULTIMATE WIND SPEED, V_{ult} = 120 MPH
 - RISK CATEGORY = III
 - BUILDING CATEGORY = ENCLOSED
 - OVERALL EXPOSURE CATEGORY = C
- COMPONENTS AND CLADDING DESIGN WIND PRESSURES: PER TABLE BELOW.

NOTE:
SEE SPECIFICATION SHEETS A0.1-A0.7 FOR THE BALANCE OF STRUCTURAL NOTES

NOMINAL (ASD) COMPONENTS AND CLADDING WIND DESIGN PRESSURES (PSF)			
	ZONE	EFFECTIVE WIND AREA (SF)	LEEWARD PRESSURE ROOF SLOPE < 7°
ROOF	1	10	-18.8
		20	-18.3
		50	-17.7
		100	-17.2
	2	10	-31.6
		20	-28.2
		50	-23.7
		100	-20.4
	3	10	-47.5
		20	-39.3
		50	-28.5
		100	-20.4
WALLS	4	10	-20.4
		20	-19.5
		50	-18.4
		100	-17.6
		500	-15.6
	5	10	-25.2
		20	-23.5
		50	-21.3
		100	-19.5
		500	-15.6

- * ZONE 1 INCLUDES THOSE ROOF ELEMENTS LOCATED OUTSIDE OF 6 FEET OF A ROOF EDGE.
- ZONE 2 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 6 FEET A ROOF EDGE.
- ZONE 3 INCLUDES THOSE ROOF ELEMENTS LOCATED WITHIN 6 FEET OF A ROOF EDGE AND WITHIN 6 FEET OF A BUILDING CORNER.
- ZONE 4 INCLUDES THOSE WALL ELEMENTS LOCATED OUTSIDE OF 6 FEET OF A BUILDING CORNER.
- ZONE 5 INCLUDES THOSE WALL ELEMENTS LOCATED WITHIN 6 FEET OF A BUILDING CORNER.

- SEISMIC LOADS:
 - RISK CATEGORY = III
 - SEISMIC IMPORTANCE FACTOR, I_t = 1.25
 - MAPPED SPECTRAL RESPONSE COEFFICIENTS:
 - S_s = 0.089
 - S_1 = 0.046
 - SITE CLASS = D
 - SPECTRAL RESPONSE COEFFICIENTS:
 - S_{d5} = 0.095
 - S_{d1} = 0.074
 - SEISMIC DESIGN CATEGORY = B
 - BASIC SEISMIC-FORCE-RESISTING SYSTEM = LIGHT FRAMED (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
 - RESPONSE MODIFICATION COEFFICIENT, R = 6.5
 - ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE PROCEDURE
 - SEISMIC RESPONSE COEFFICIENT, C_s = 0.018
 - BASE SHEAR, V (ULTIMATE) = 7.9K

FOUNDATIONS - GENERAL:

- THE FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS BASED ON THE "GEOTECHNICAL EXPLORATION AND ENGINEERING REPORT" DATED JANUARY 10, 2023 PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. (PROJECT No. 03811345).
- SPREAD FOOTINGS SHALL BEAR ON STRUCTURAL FILL AS DEFINED IN THE REFERENCED REPORT CAPABLE OF SUSTAINING A NET ALLOWABLE BEARING PRESSURE OF 3,000 PSF FOR INDIVIDUAL COLUMN FOOTINGS AND CONTINUOUS WALL FOOTINGS UNDER FULL SERVICE DEAD AND LIVE LOADS.
- ALL BUILDING PAD AND SIDEWALK SUBGRADE SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE REFERENCED GEOTECHNICAL REPORT.
- ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED OR EXISTING SOILS SHALL BE REMOVED AND REPLACED AS REQUIRED.
- FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
- THE TOP OF EXTERIOR FOOTING ELEVATION SHALL BE SET A MINIMUM OF 8" BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE AND A MINIMUM OF 8" BELOW FINISH FLOOR. THE BOTTOM OF EXTERIOR WALL FOOTINGS SHALL BEAR A MINIMUM OF 42" BELOW LOWEST FINAL ADJACENT EXTERIOR GRADE UNLESS NOTED OTHERWISE.
- THE BOTTOM OF INTERIOR FOUNDATIONS SHALL BE A MINIMUM OF 24" BELOW THE FINISH FLOOR ELEVATION.
- FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE, OR UNTIL THE CONCRETE OR MASONRY HAS ATTAINED ITS FULL COMPRESSIVE STRENGTH FOR CANTILEVER WALLS.
- WHERE FOUNDATION WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, PLACE FILL SIMULTANEOUSLY SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF THE WALL.
- VERIFY THE USE AND EXTENT OF PERIMETER INSULATION WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE INSTALLATION OF FOUNDATIONS. INSTALL PERIMETER INSULATION AS REQUIRED.

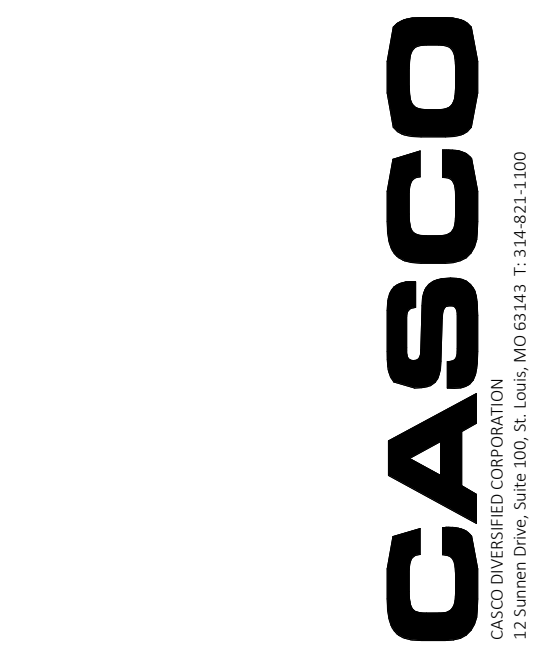
MISCELLANEOUS:

- THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIREMENTS FROM SUCH DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.
- ANY DETAIL TITLED AS A TYPICAL DETAIL IS APPLICABLE THROUGHOUT THE DESIGN DRAWINGS. THESE DETAILS ARE DEFINED AS GENERAL STANDARDS THAT ARE USUALLY NOT IDENTIFIED BY SPECIFIC REFERENCE WITHIN THE DRAWINGS. THESE DETAILS MAY BE MODIFIED OR SUPERSEDED BY SPECIFIC DETAILS THAT ARE REFERENCED WITHIN THE DRAWINGS.
- NO OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL-OF-RECORD.
- NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE PROFESSIONAL-OF-RECORD.
- OPENINGS IN WALLS AND DECK, WHICH ARE 1'-4" AND LESS ON A SIDE, ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
- DO NOT SCALE THESE DRAWINGS. USE SPECIFIED DIMENSIONS.
- THE CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL INFORM THE PROFESSIONAL-OF-RECORD IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF SUCH DEVIATION BY THE PROFESSIONAL-OF-RECORD REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE PROFESSIONAL-OF-RECORD OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE PROFESSIONAL-OF-RECORD HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.

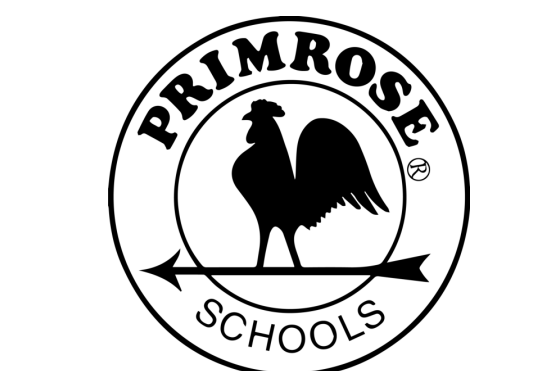
SPECIAL INSPECTIONS:

- THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
 - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
- WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF OTHER SPECIFIED TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.
- SPECIAL INSPECTIONS SHALL BE REQUIRED FOR THE GENERAL AREAS, IDENTIFIED IN THE FOLLOWING TABLE.
- STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, UNLESS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

SPECIAL INSPECTIONS SCHEDULE		
SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD(S)
SOILS:		
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT; IBC 1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	PERIODIC	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	CONTINUOUS	
5. PRIOR TO THE PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT THE SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	
CONCRETE:		
1. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318: 17.8.2
INSPECTION OF FABRICATORS:		
1. PREFABRICATED WOOD ROOF TRUSSES		IBC 1704.2.5

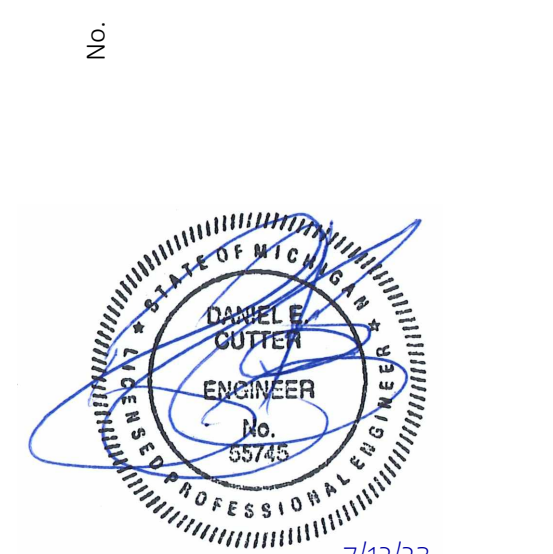


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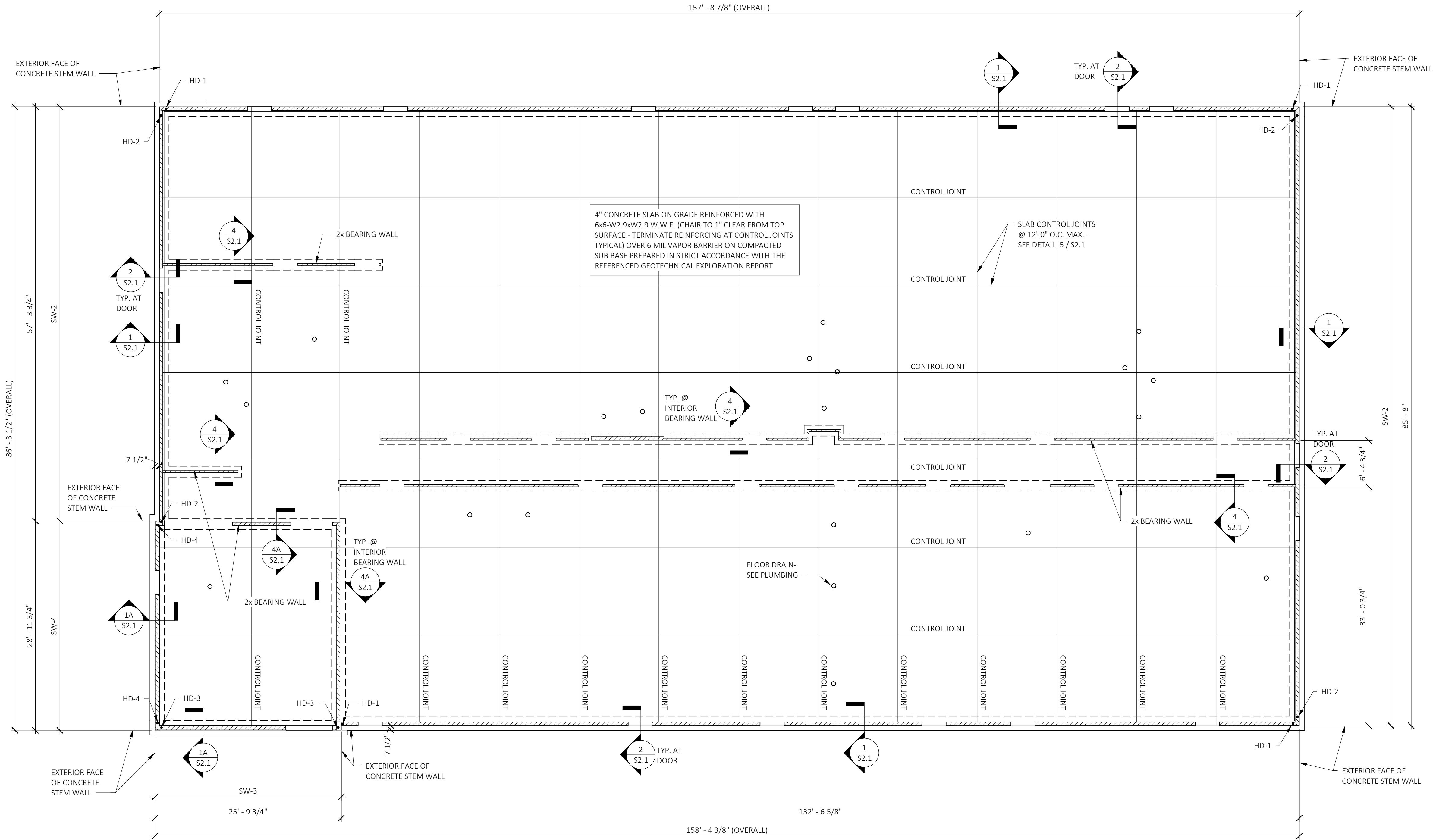


Professional of Record:
Daniel E. Cutter
LICENSE NO: 55745
EXP. DATE: 10/10/24

Drawn/Checked DRW / SRW
Project Number 2202640
Bid Date --/--
Permit Date 7/13/23
For Construction --/--

GENERAL NOTES

S1.0



4" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.9xW2.9 W.W.F. (CHAIR TO 1" CLEAR FROM TOP SURFACE - TERMINATE REINFORCING AT CONTROL JOINTS TYPICAL) OVER 6 MIL VAPOR BARRIER ON COMPACTED SUB BASE PREPARED IN STRICT ACCORDANCE WITH THE REFERENCED GEOTECHNICAL EXPLORATION REPORT

SLAB CONTROL JOINTS @ 12'-0" O.C. MAX. - SEE DETAIL 5 / S2.1

TYP. @ INTERIOR BEARING WALL

TYP. @ INTERIOR BEARING WALL

FLOOR DRAIN - SEE PLUMBING

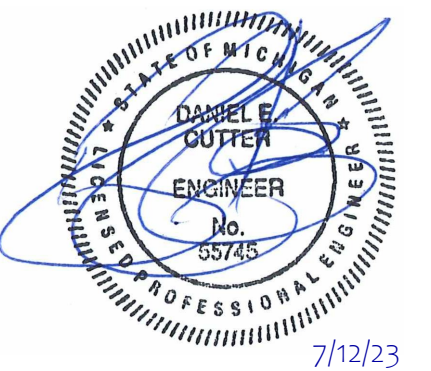
FOUNDATION PLAN
SCALE: 1/8" = 1'-0"
NORTH

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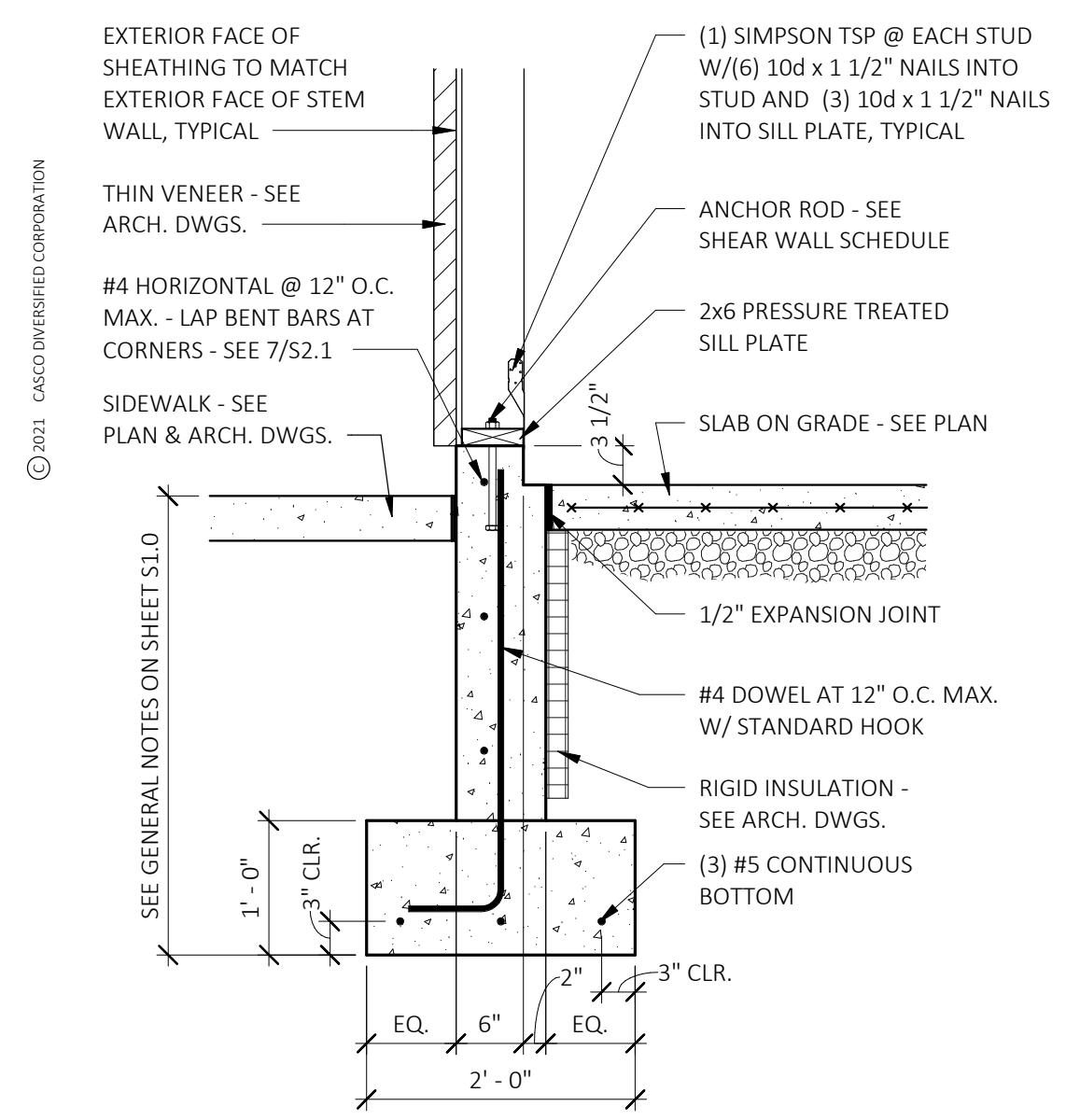
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FOUNDATION PLAN NOTES

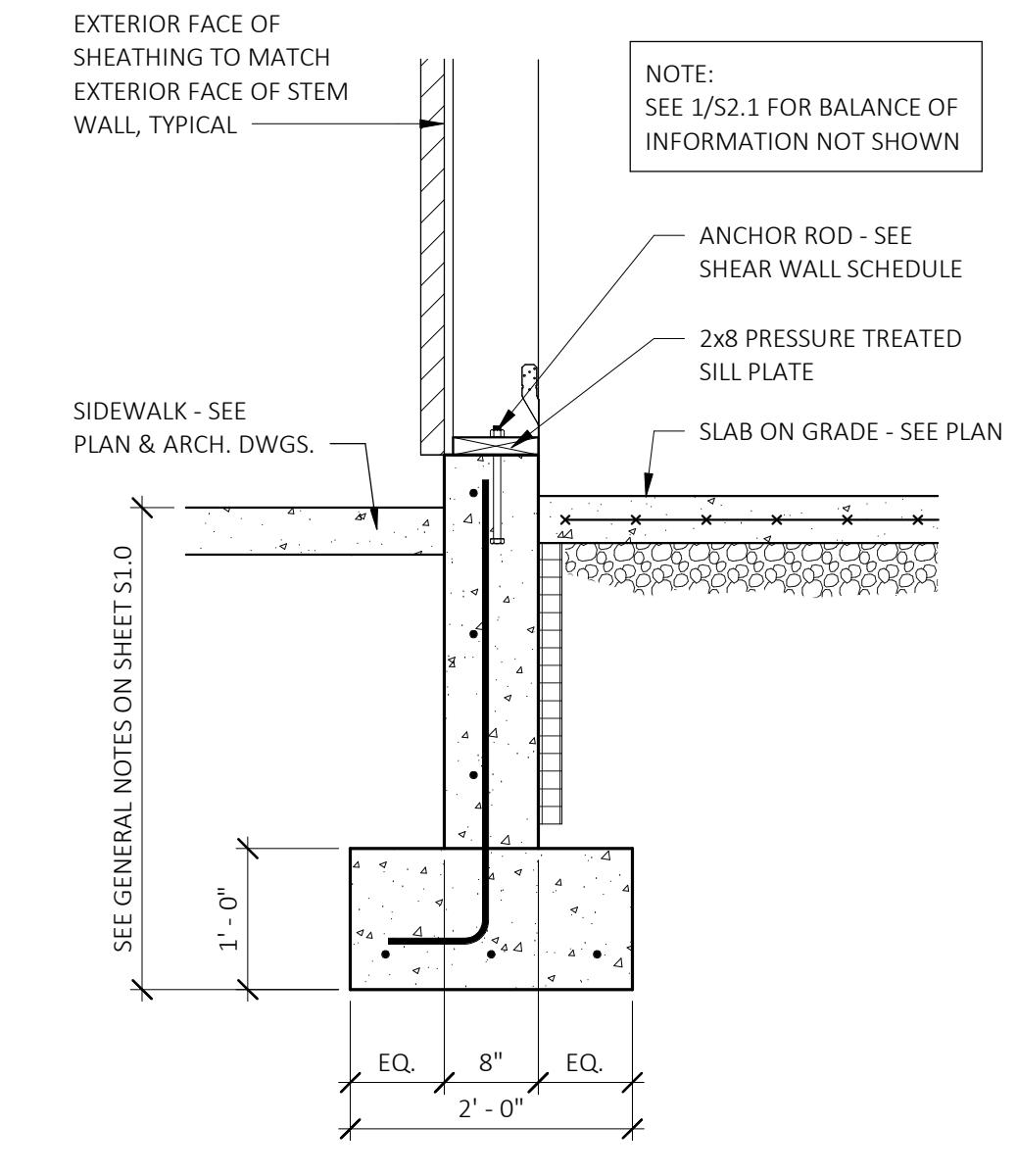
- SEE SHEET S1.0 FOR GENERAL NOTES. SEE SHEET S2.1 FOR TYPICAL DETAILS.
- ALL ELEVATIONS ARE BASED ON FINISH FLOOR ELEVATION OF 0'-0" FOR REFERENCE ONLY. SEE CIVIL FOR ACTUAL FINISH FLOOR ELEVATION.
- BOX OUT FOR ALL FLOOR DRAINS AND CLEAN OUTS TO ALLOW MAXIMUM SLOPE OF 1/8" PER FOOT TO DRAIN. GROUT AFTER COMPLETED SETTING OF FLOOR DRAIN AND/OR CLEAN OUT
- INSTALL (2) 1" DIAMETER CONDUIT AT RISER ROOM LOCATION FOR IRRIGATION SYSTEM, TELEPHONE, AND CABLE TV WIRING. SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
- HD-"X" ON PLAN INDICATES CAST-IN-PLACE HOLD DOWN ANCHOR - SEE SHEAR WALL SCHEDULE SHEET S4.1.
- UNLESS NOTED OTHERWISE ON PLAN, ALL EXTERIOR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SW-1 - SEE SHEAR WALL SCHEDULE SHEET S4.1.
- SEE 3 / S2.1 FOR ATTACHMENT FOR NON-LOAD BEARING INTERIOR WALL TO SLAB. SEE ARCHITECTURAL DRAWINGS FOR FRAMING SIZES AND LOCATIONS.
- SEE 3 / S4.2 FOR ATTACHMENT OF THE TYPICAL WALL FRAMING DETAIL FOR THE INTERIOR LOAD BEARING AND ALL EXTERIOR WALLS.
- ON PLAN DENOTES ROOF TRUSS BEARING WALL OR EXTERIOR SHEAR WALL.

FOUNDATION PLAN

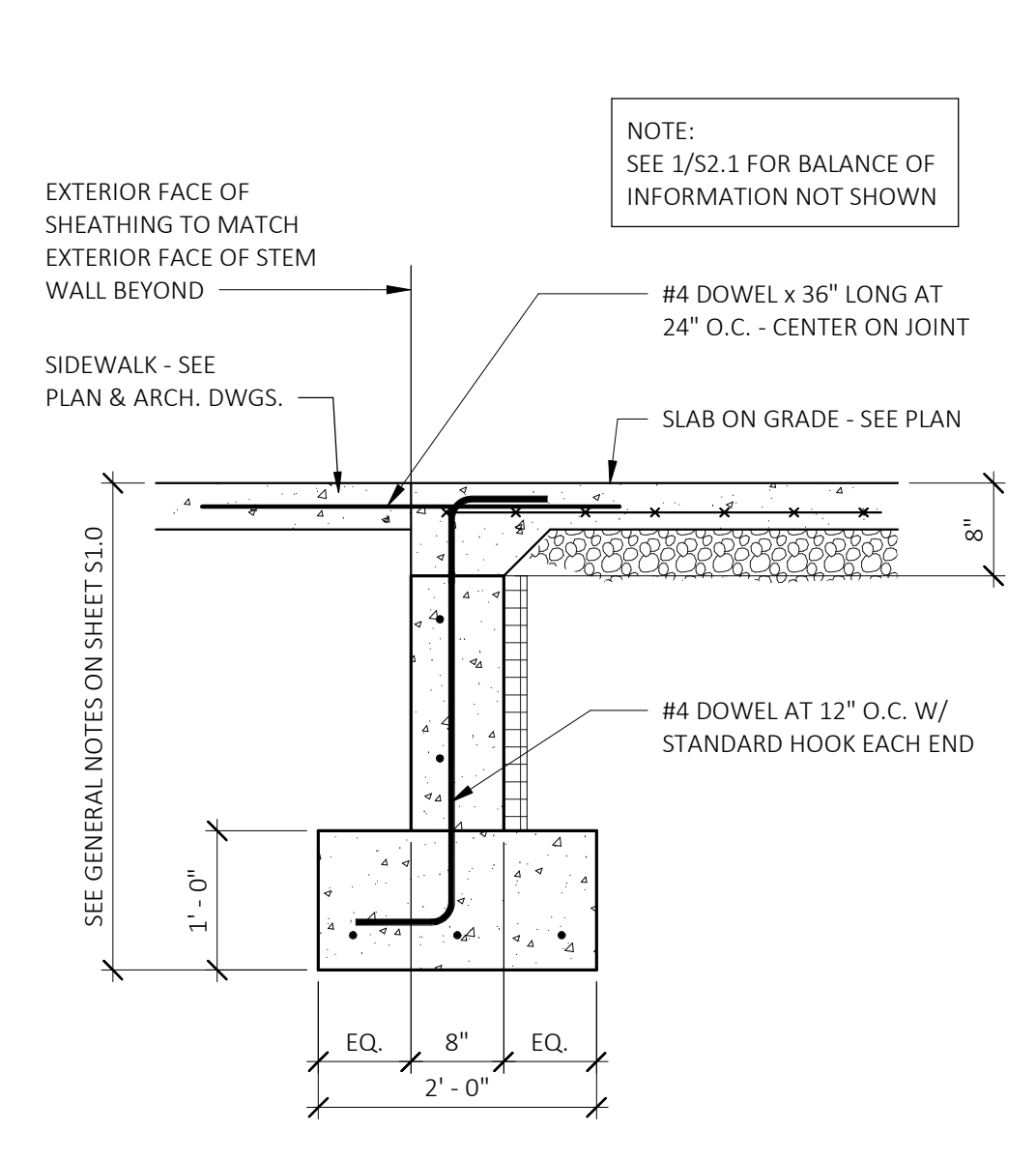
S1.1



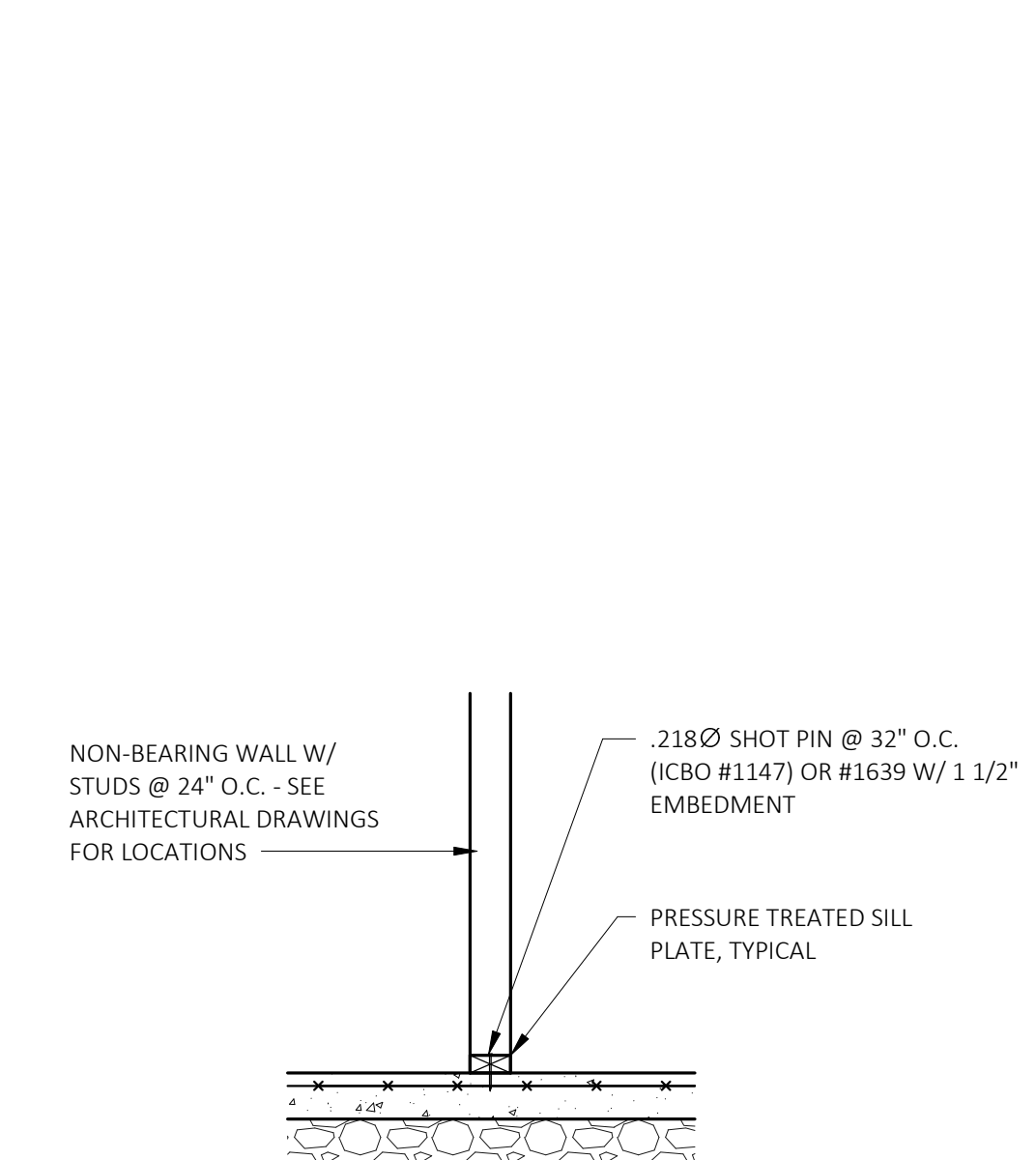
1 SECTION
S2.1 SCALE: 3/4" = 1'-0"



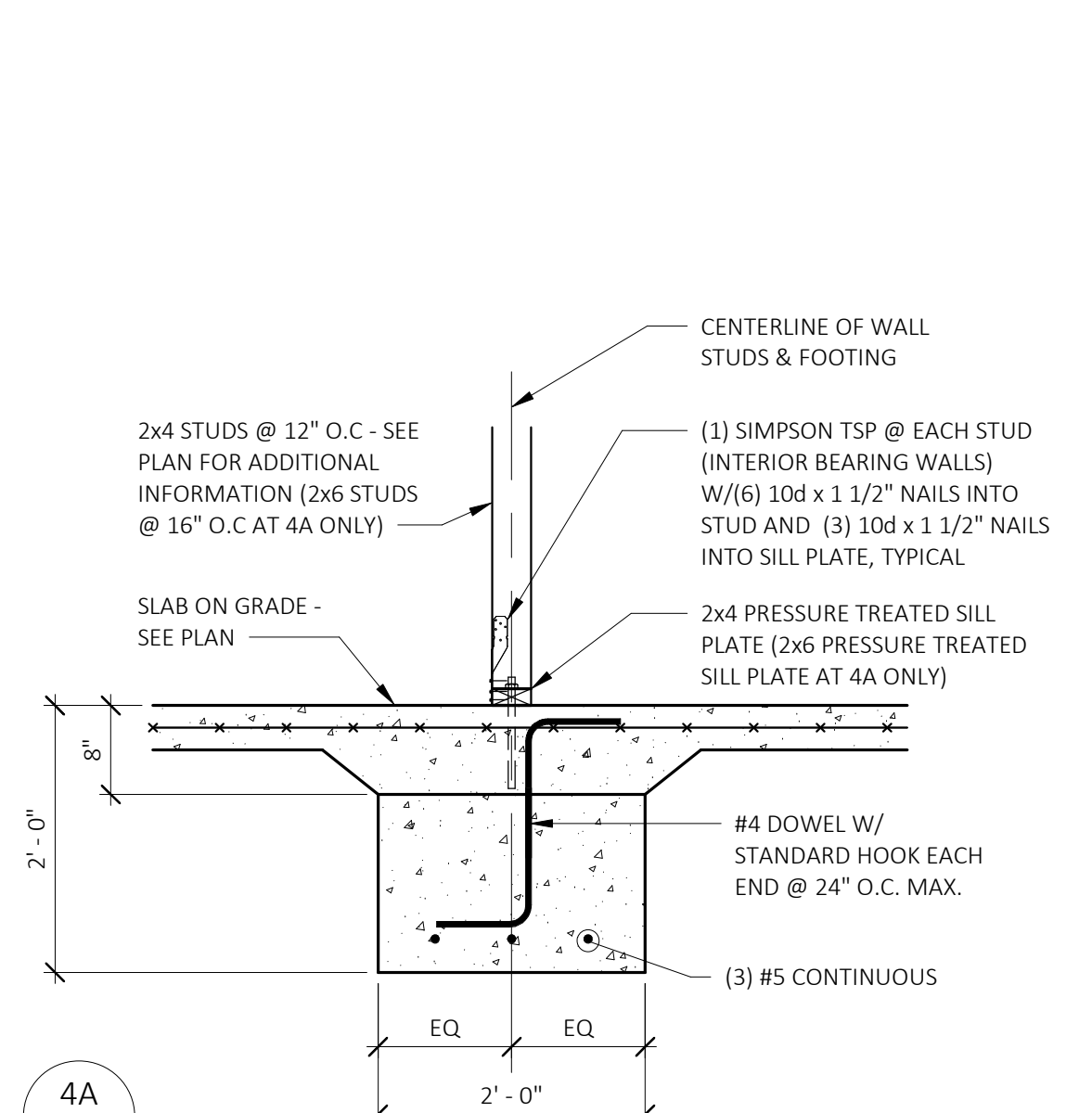
1A SECTION
S2.1 SCALE: 3/4" = 1'-0"



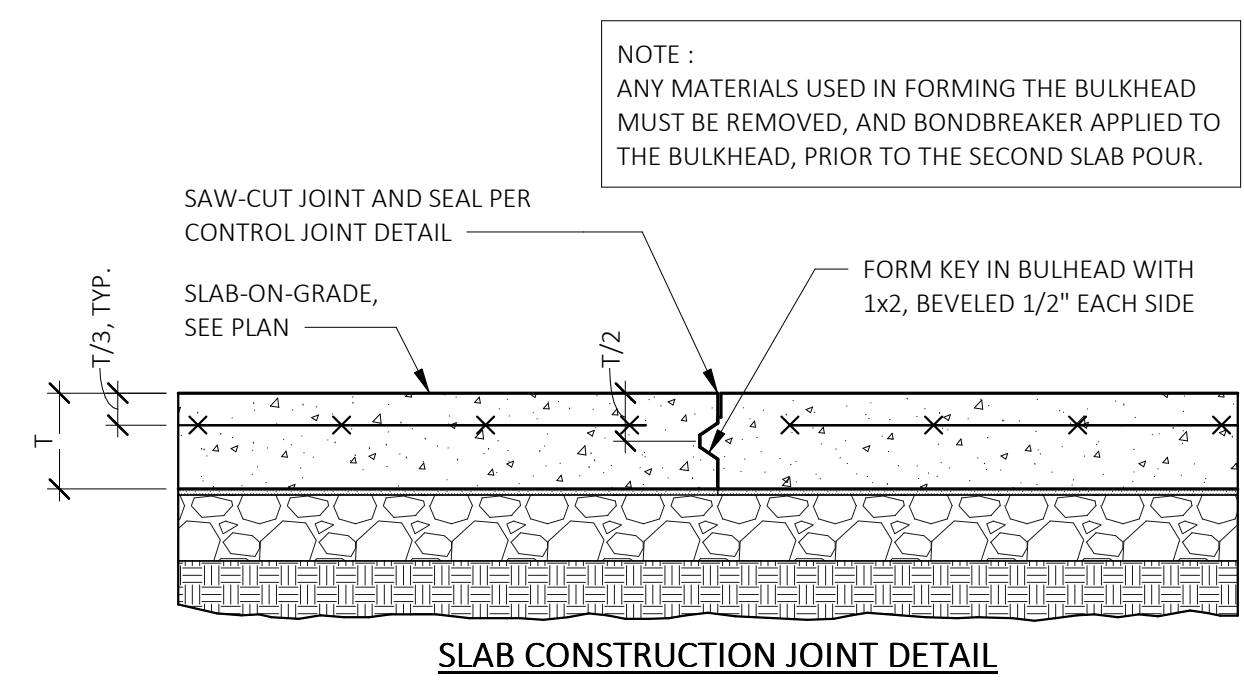
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S2.1 SCALE: 3/4" = 1'-0"



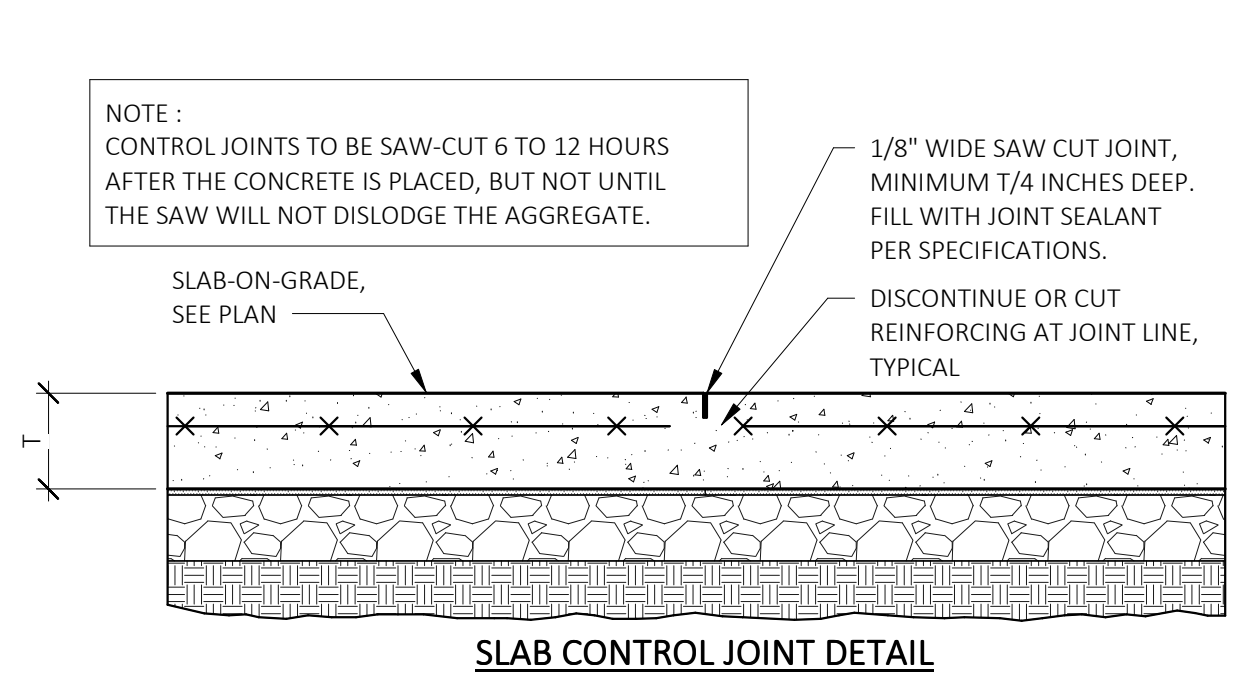
3 SECTION
S2.1 SCALE: 3/4" = 1'-0"



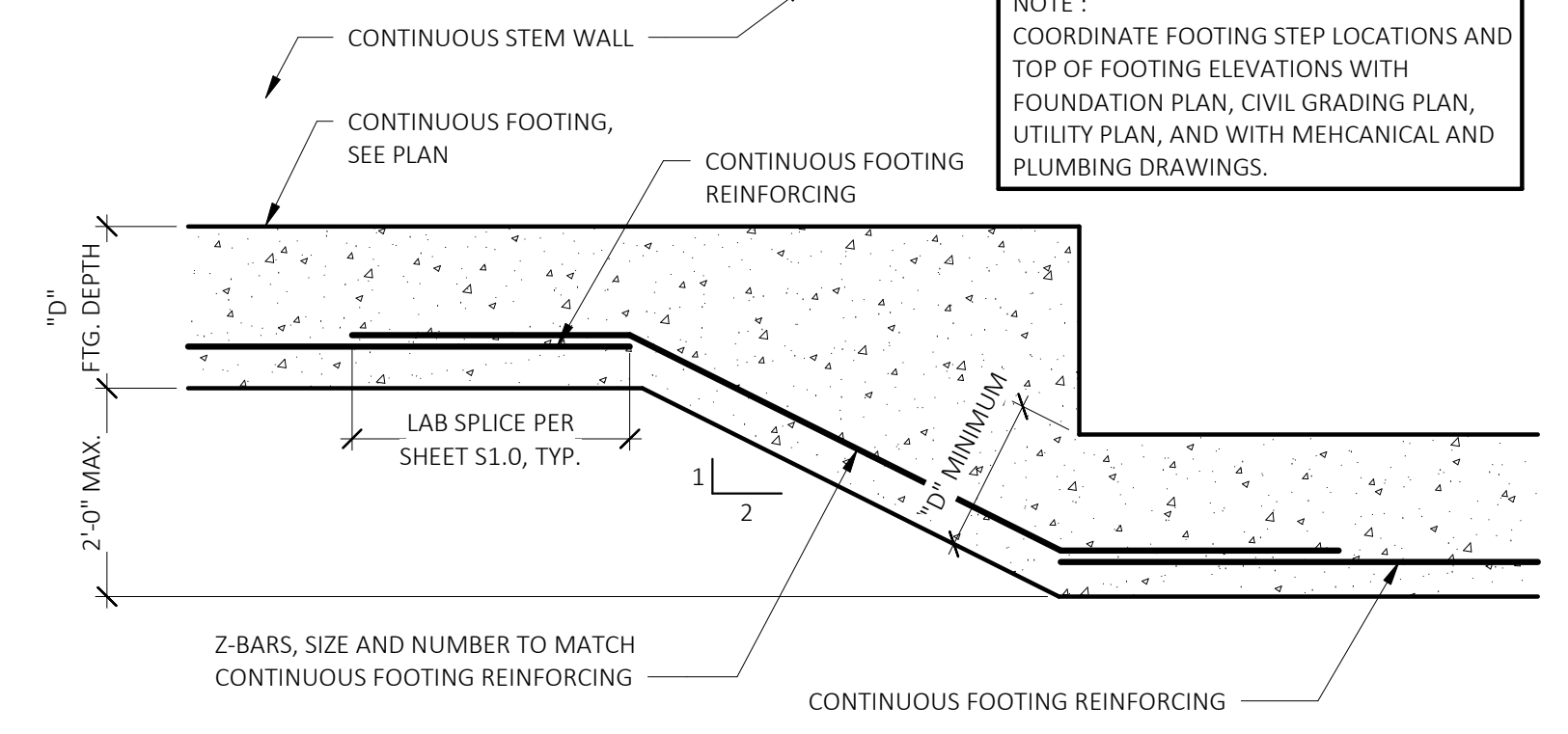
4 SECTION
S2.1 SCALE: 3/4" = 1'-0"



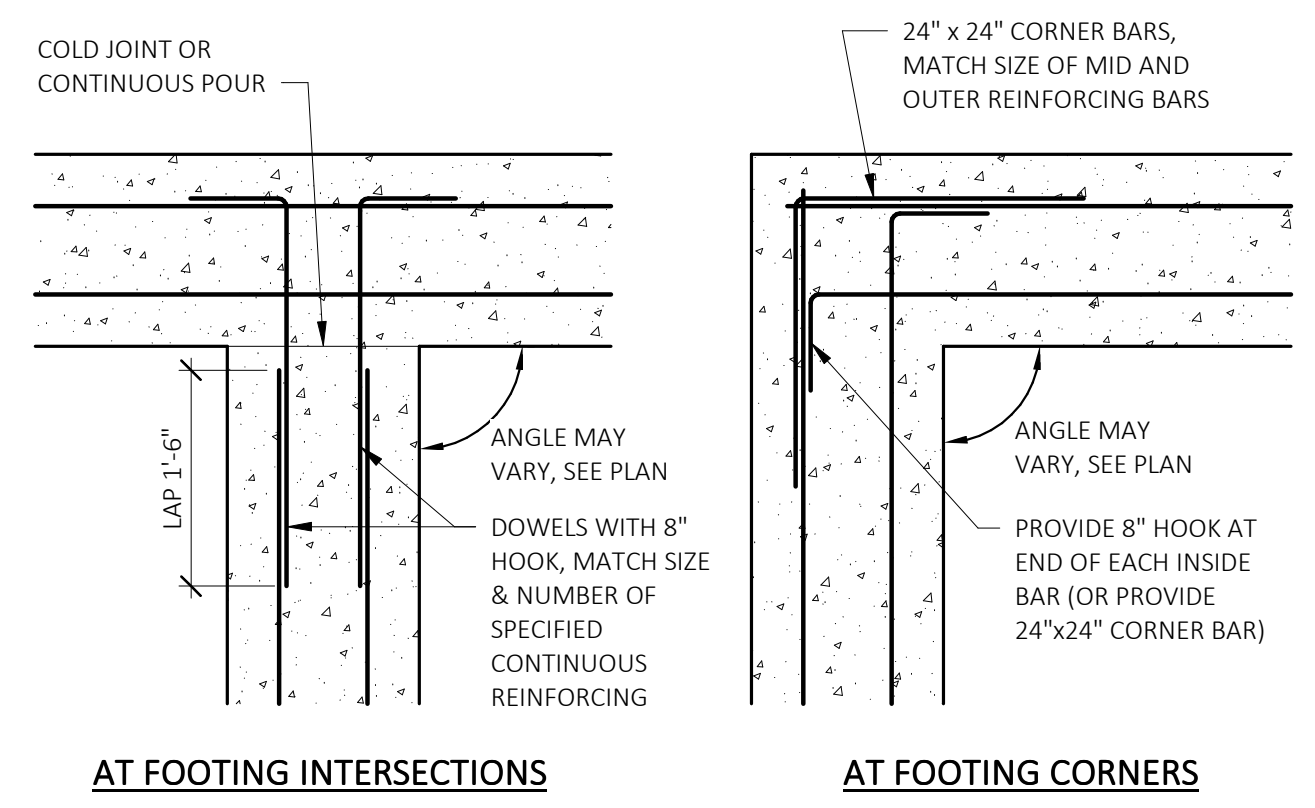
SLAB CONSTRUCTION JOINT DETAIL



SLAB CONTROL JOINT DETAIL

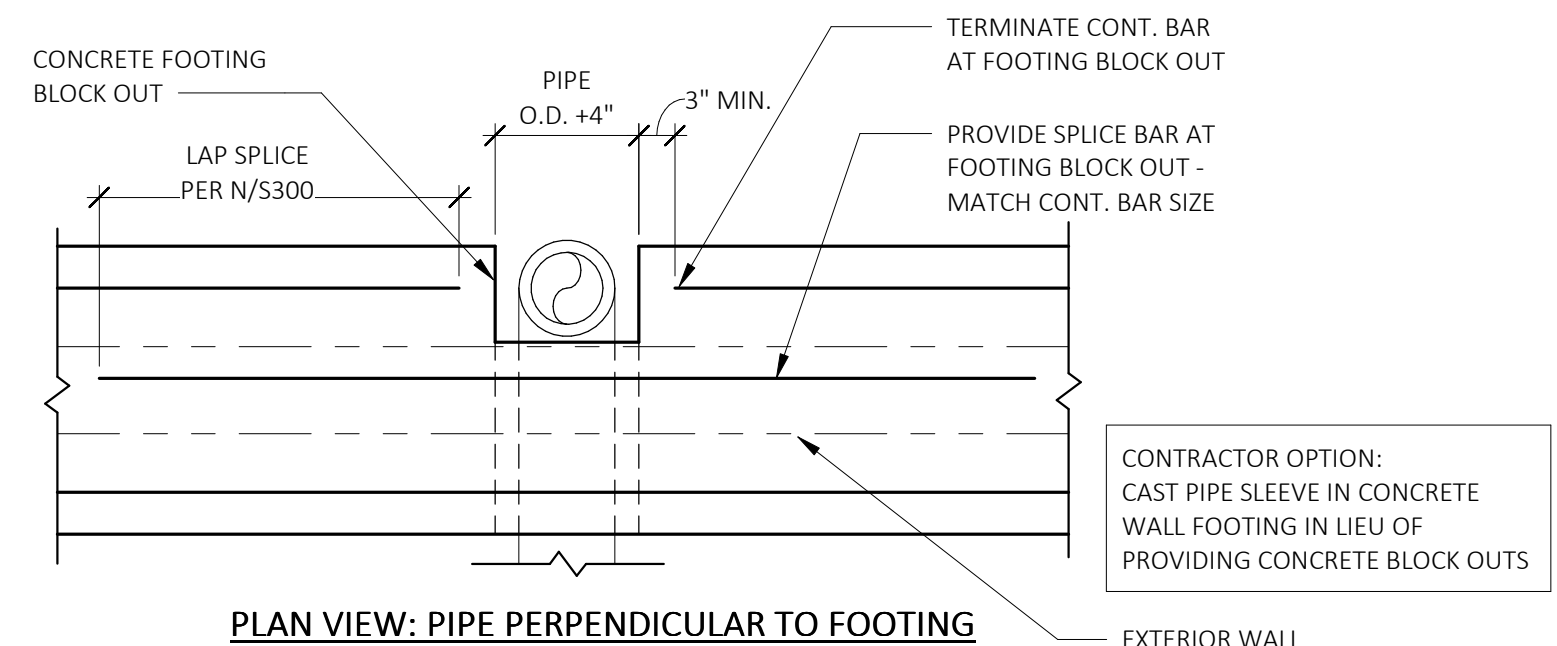


6 TYPICAL STEPPED FOOTING DETAIL
S2.1 SCALE: 3/4" = 1'-0"

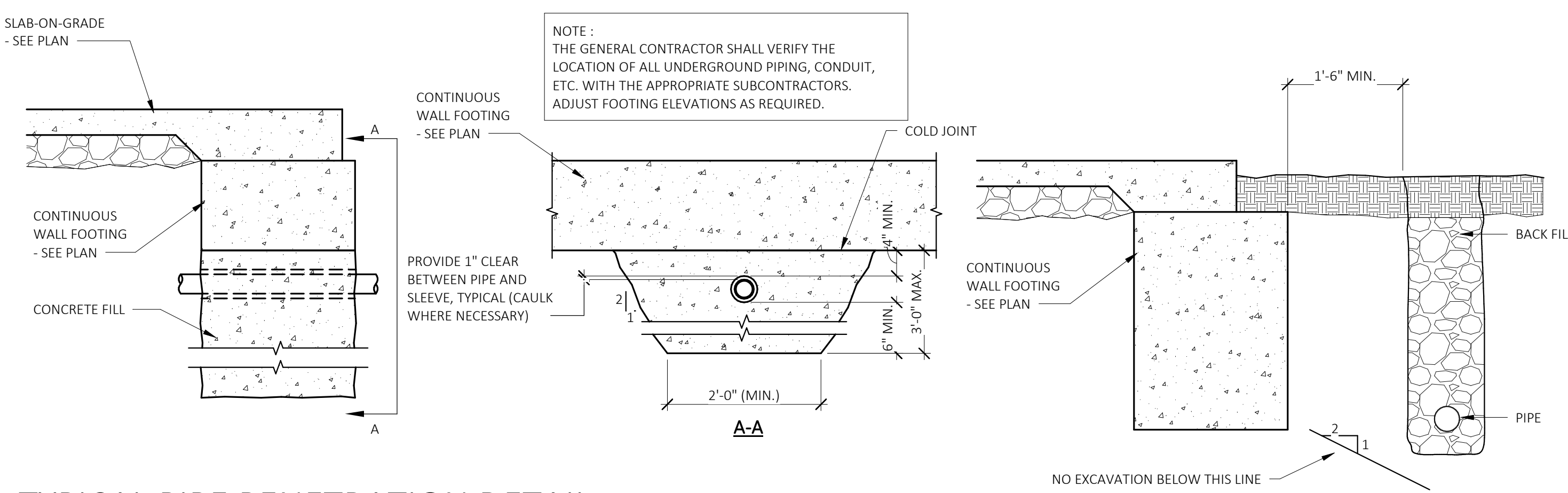


7 TYPICAL FOOTING DETAILS AT CORNERS/INTERSECTIONS
S2.1 SCALE: 3/4" = 1'-0"

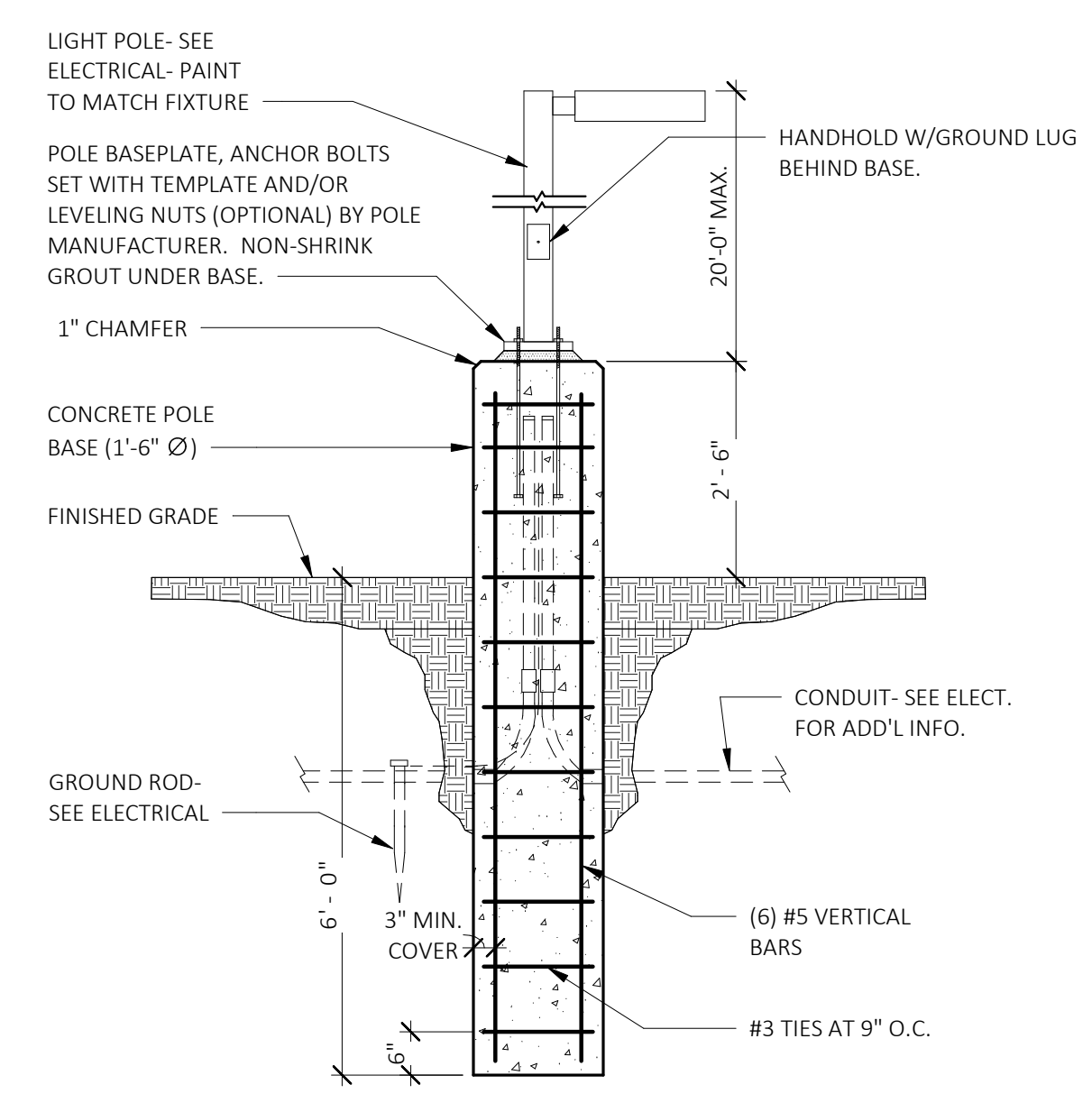
5 TYPICAL INTERIOR SLAB JOINT DETAILS
S2.1 SCALE: 1 1/2" = 1'-0"



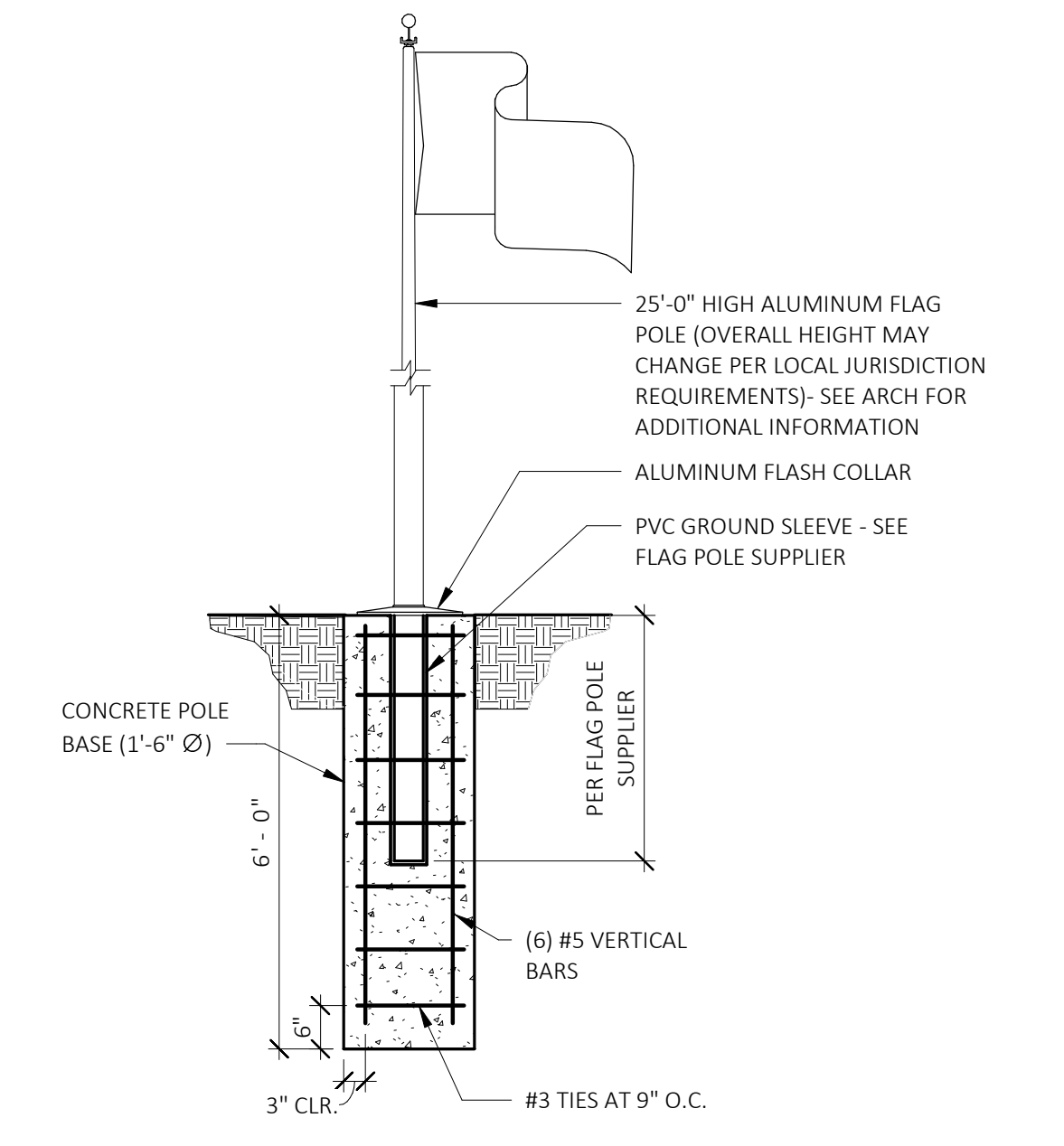
PLAN VIEW: PIPE PERPENDICULAR TO FOOTING



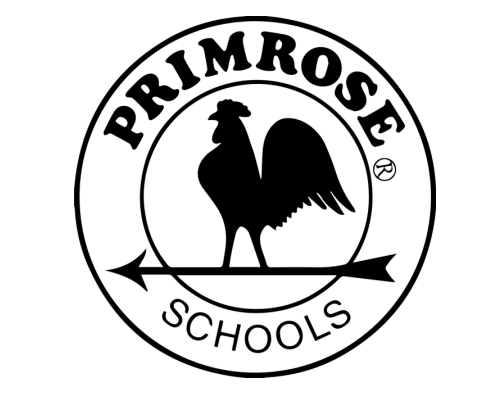
8 TYPICAL PIPE PENETRATION DETAIL
S2.1 SCALE: 3/4" = 1'-0"



9 LIGHT POLE FOUNDATION
S2.1 SCALE: 1/2" = 1'-0"



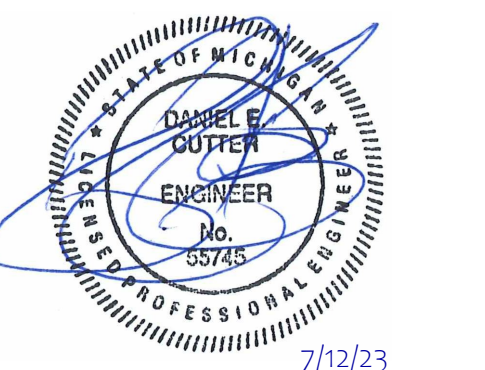
10 FLAG POLE
S2.1 SCALE: 1/2" = 1'-0"



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Date
CONSTR. DOC. & REVISIONS
Description

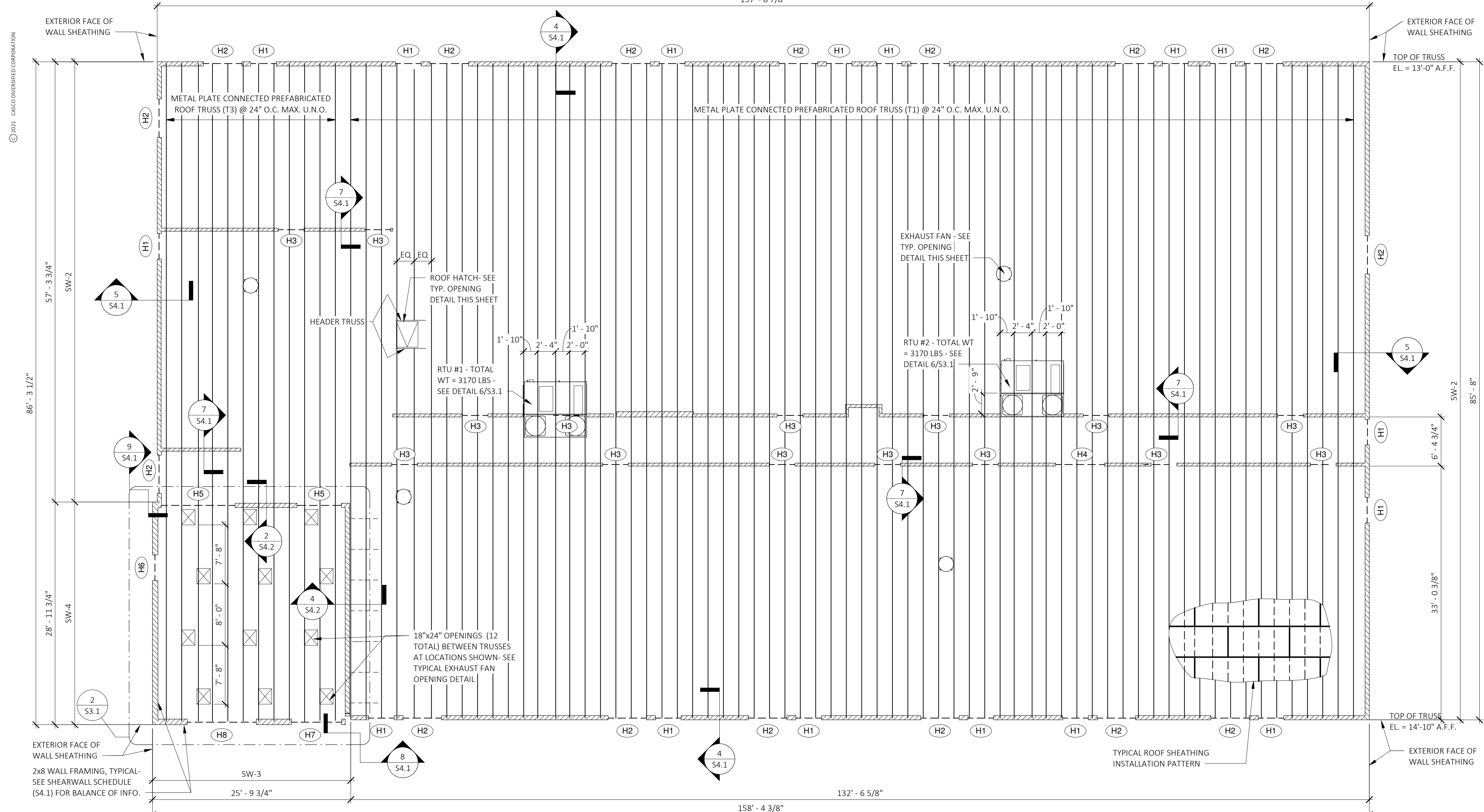
No.



7/12/23
Professional of Record:
Daniel E. Cutter
LICENSE NO: 55745
EXP. DATE: 10/10/24

Drawn/Checked DRW /SRW
Project Number 2202640
Bid Date --/--
Permit Date 7/13/23
For Construction --/--

157' - 8 7/8"

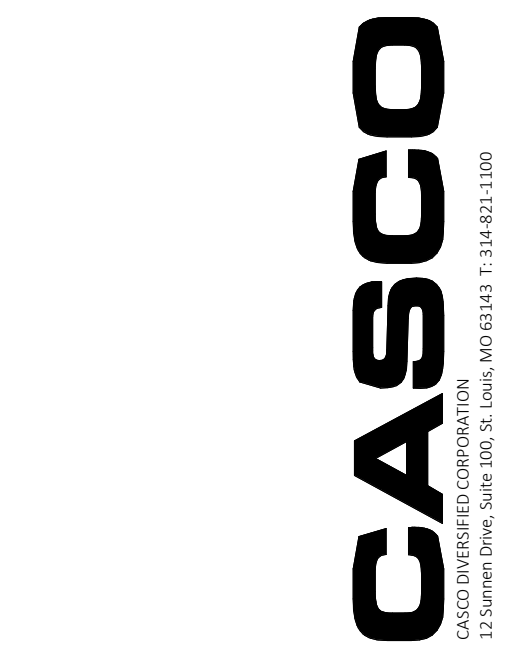


ROOF FRAMING PLAN NOTES

- SEE SHEET S1.0 FOR GENERAL NOTES.
- UNLESS NOTED OTHERWISE, ALL DIMENSIONS ON PLAN ARE TO OUTSIDE FACE OF WALL STUD.
- SEE SPECIFICATION SHEET A0.4 FOR ROOF SHEATHING MATERIAL AND INSTALLATION REQUIREMENTS. FASTEN ROOF SHEATHING TO ALL SUPPORTING WOOD FRAMING WITH 10d @ 6" O.C. AT PANEL JOINTS AND BOUNDARY CONDITIONS AND 12" O.C. AT ALL FIELD SUPPORTS. ALL RIDGE LINES, AND VALLEY LINES SHALL BE BLOCKED WITH FULL DEPTH 2x FRAMING.
- UNLESS NOTED OTHERWISE ON PLAN, ALL EXTERIOR WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SW-1 - SEE SHEET S4.1 FOR SHEAR WALL SCHEDULE.
- ALL INTERIOR LOAD BEARING WALL STUDS SHALL BE 2x4 @ 12" O.C. MAXIMUM - SEE ARCHITECTURAL DRAWINGS FOR INTERIOR NON-LOAD BEARING WALL STUDS - SEE SPECIFICATION SHEET A.04 FOR MATERIAL REQUIREMENTS.
- UNLESS NOTED OTHERWISE ON PLAN, ALL WALL DOUBLE TOP PLATE SPLICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 3 / S3.1.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF WOOD STUD WALLS AND NON-LOAD BEARING PARTITIONS. SEE GENERAL NOTES FOR WALL FRAMING INFORMATION.
- SEE SHEET S4.1 FOR ROOF TRUSS TYPES AND TRUSS NOTES.
- SEE 3 / S4.2 FOR TYPICAL WALL OPENING FRAMING DETAIL.
- ON PLAN DENOTES ROOF TRUSS BEARING WALL OR EXTERIOR SHEAR WALL.

HEADER SCHEDULE

MARK	FRAMING MEMBER	HEADER SUPPORT
H1	(3) - 2x8	(1) JAMB STUDS AND (1) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H2	(3) - 2x10	(2) JAMB STUDS AND (2) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H3	(2) - 2x8	(1) JAMB STUD AND (1) FULL HEIGHT TRIMMER STUD EACH SIDE OF OPENING
H4	(2) - 1 3/4"x9 1/4" LVL	(2) JAMB STUDS AND (2) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H5	(3) - 1 3/4"x9 1/4" LVL	(2) JAMB STUDS AND (2) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H6	(4) - 2x8	(1) JAMB STUDS AND (1) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H7	(4) - 2x10	(2) JAMB STUDS AND (2) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING
H8	(4) - 1 3/4"x9 1/4" LVL	(2) JAMB STUDS AND (2) FULL HEIGHT TRIMMER STUDS EACH SIDE OF OPENING



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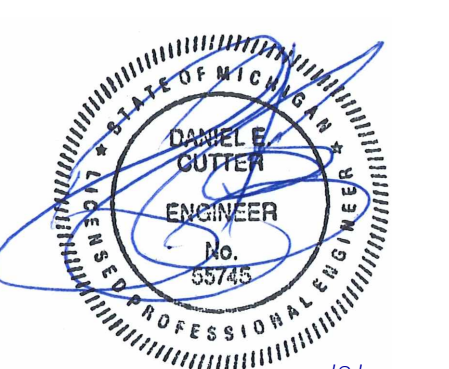
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Date: 11/8/23

CONSTR. DOC. & REVISIONS

Description	No.
1 CODE RESPONSE	1



Professional of Record:
Daniel E. Cutter
LICENSE NO: 55745
EXP. DATE: 10/10/24

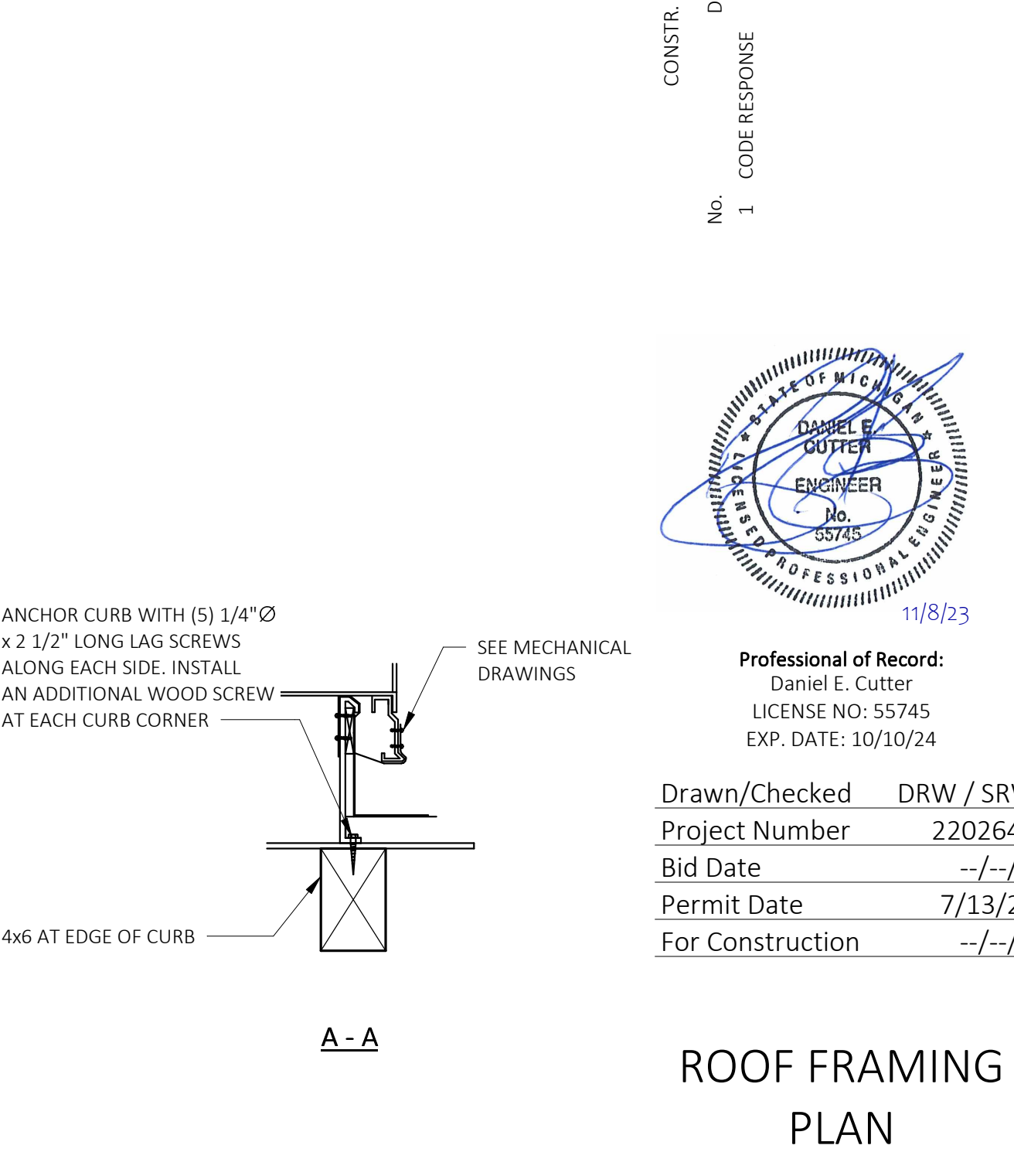
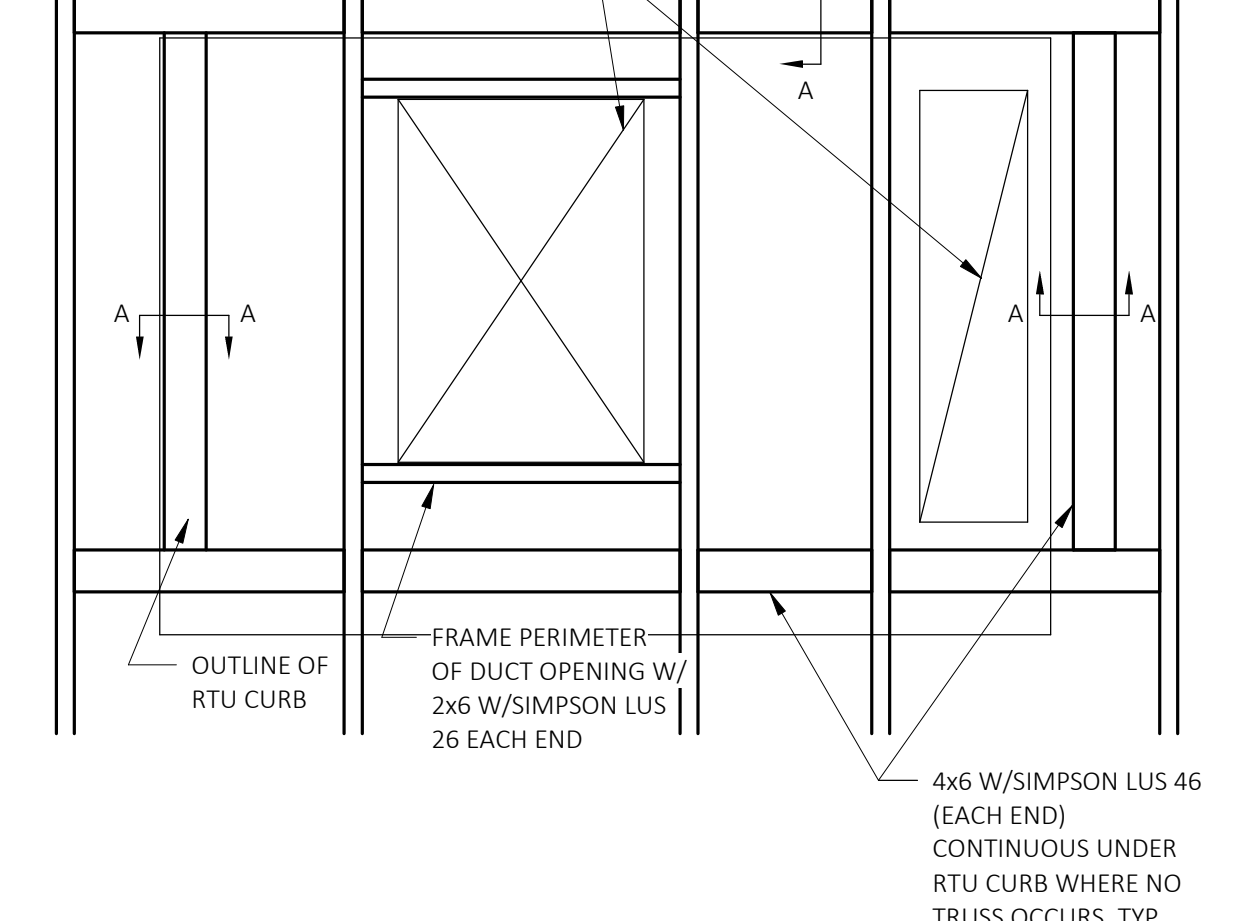
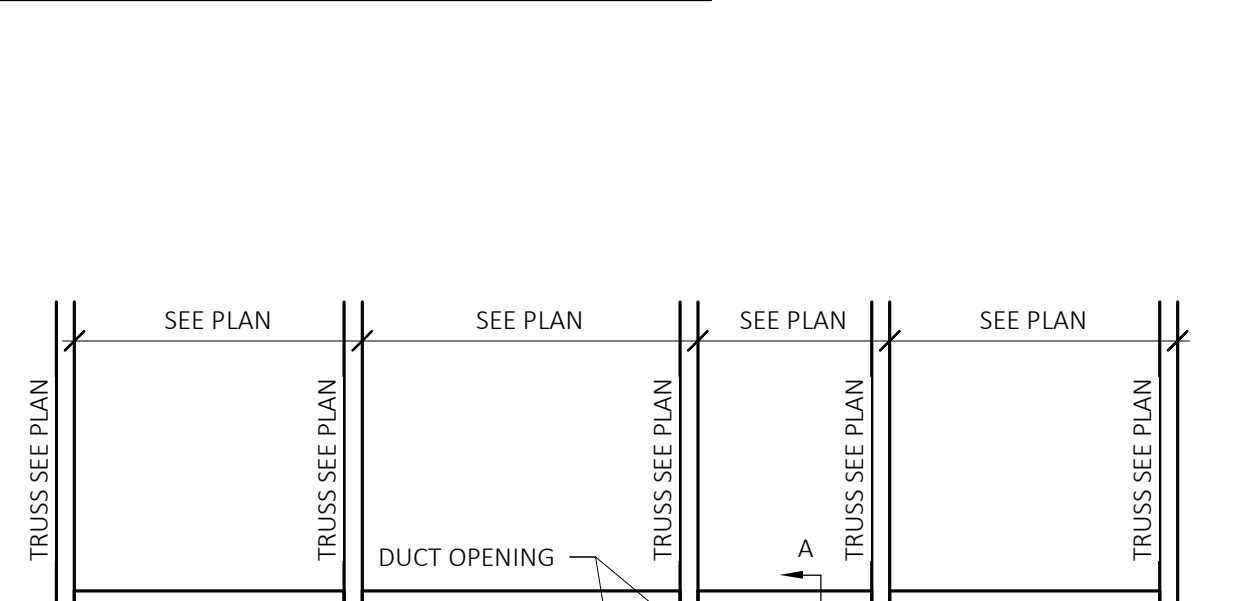
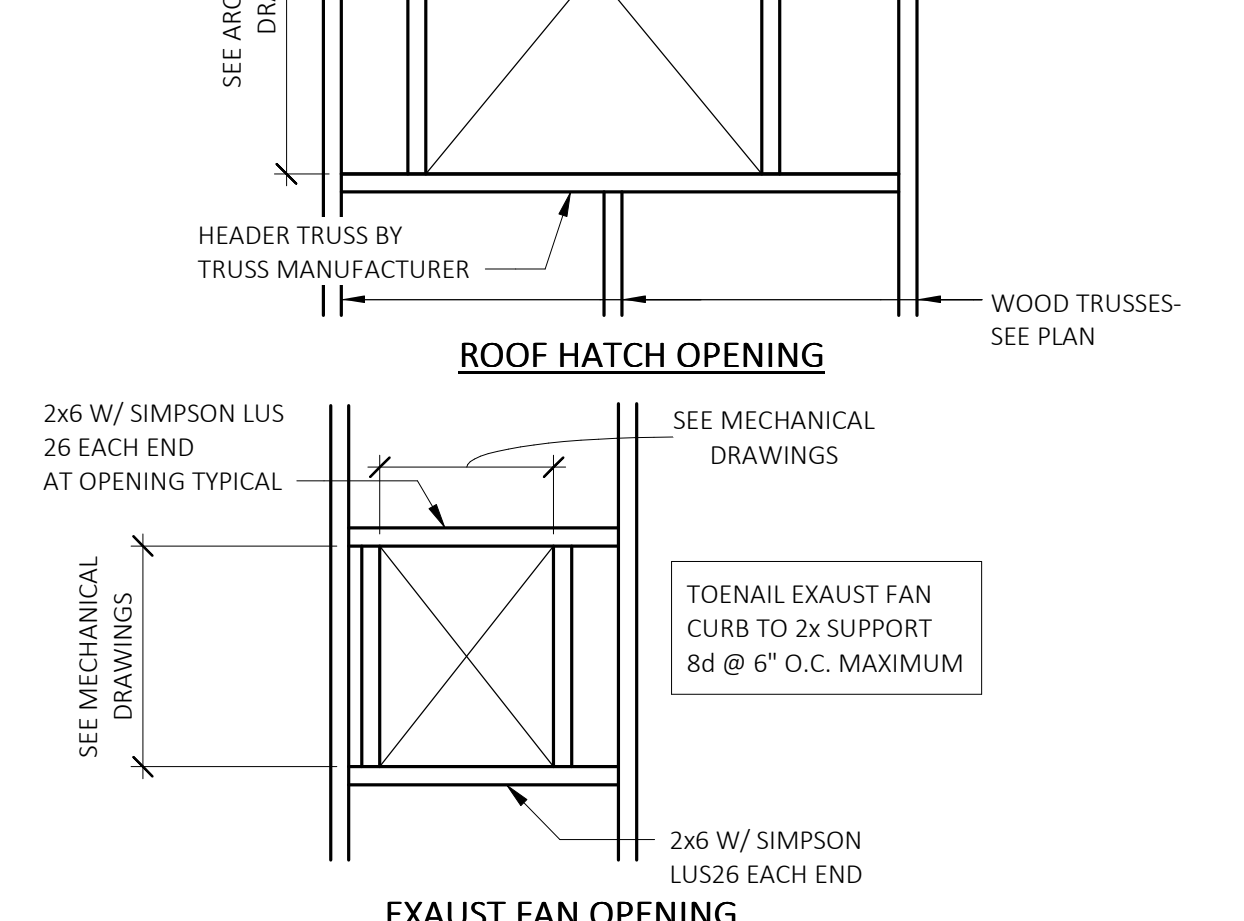
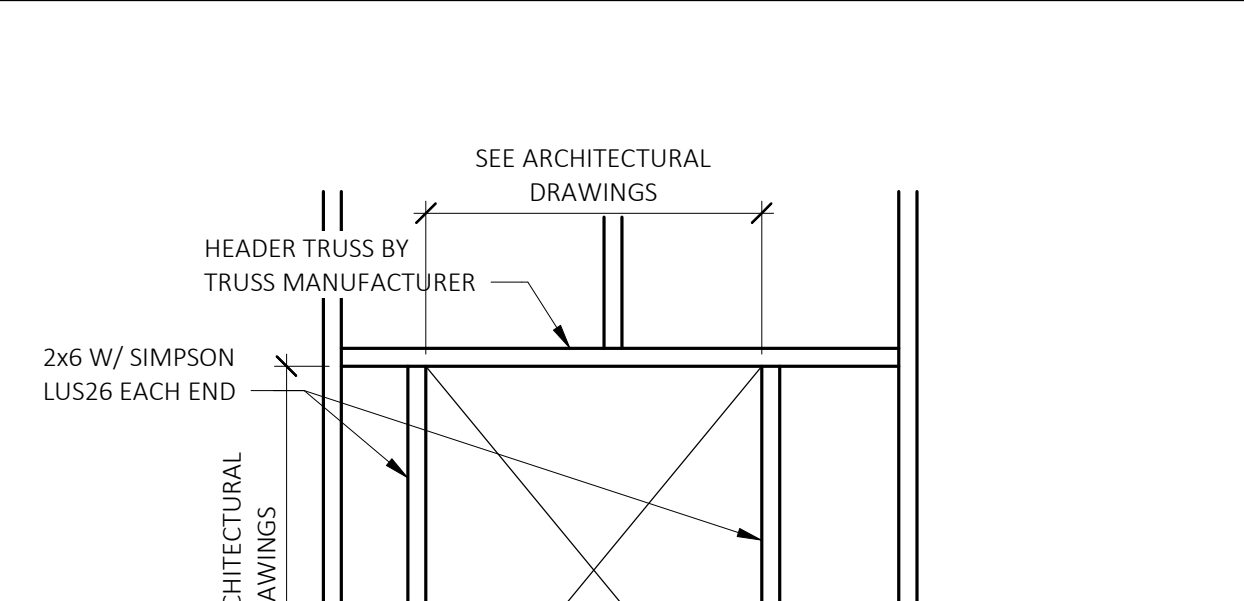
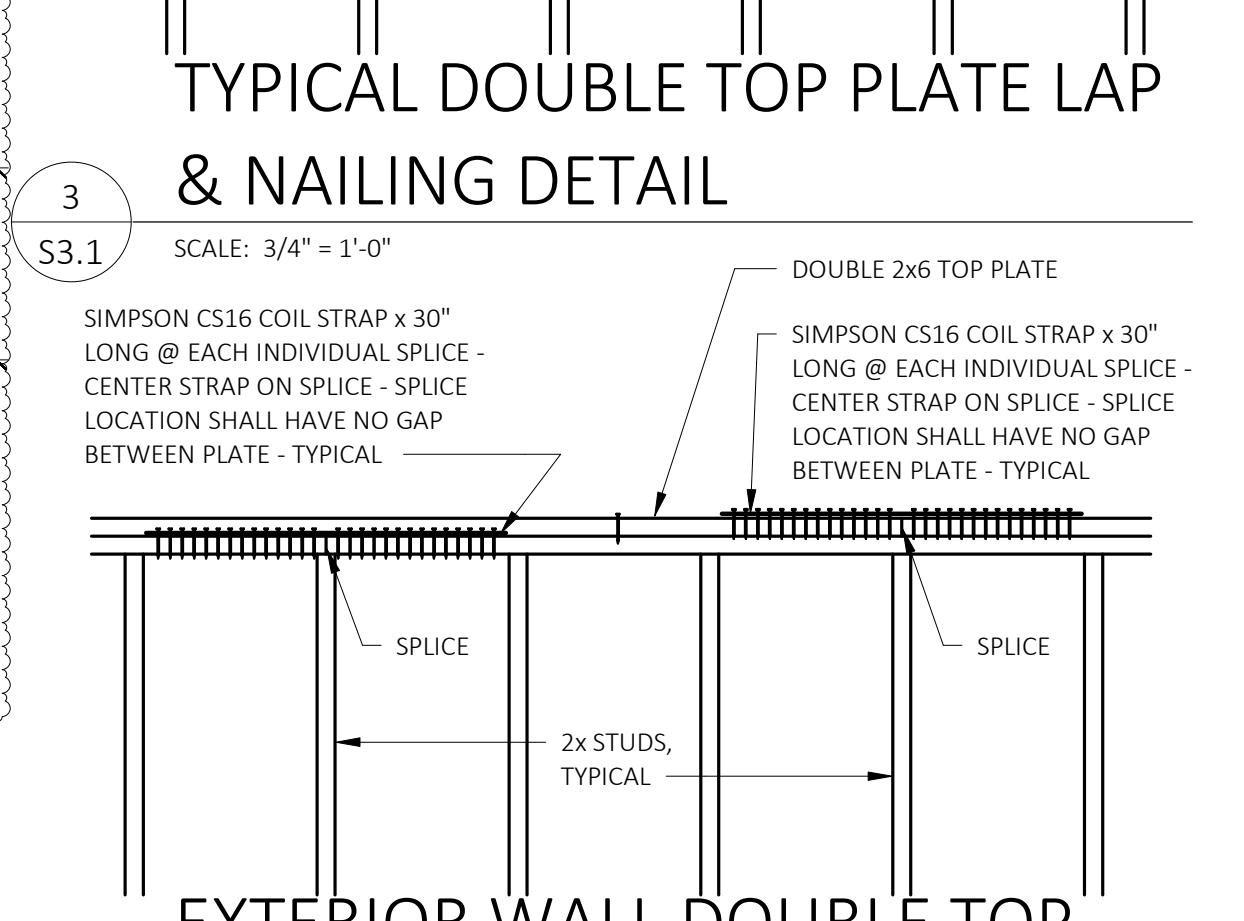
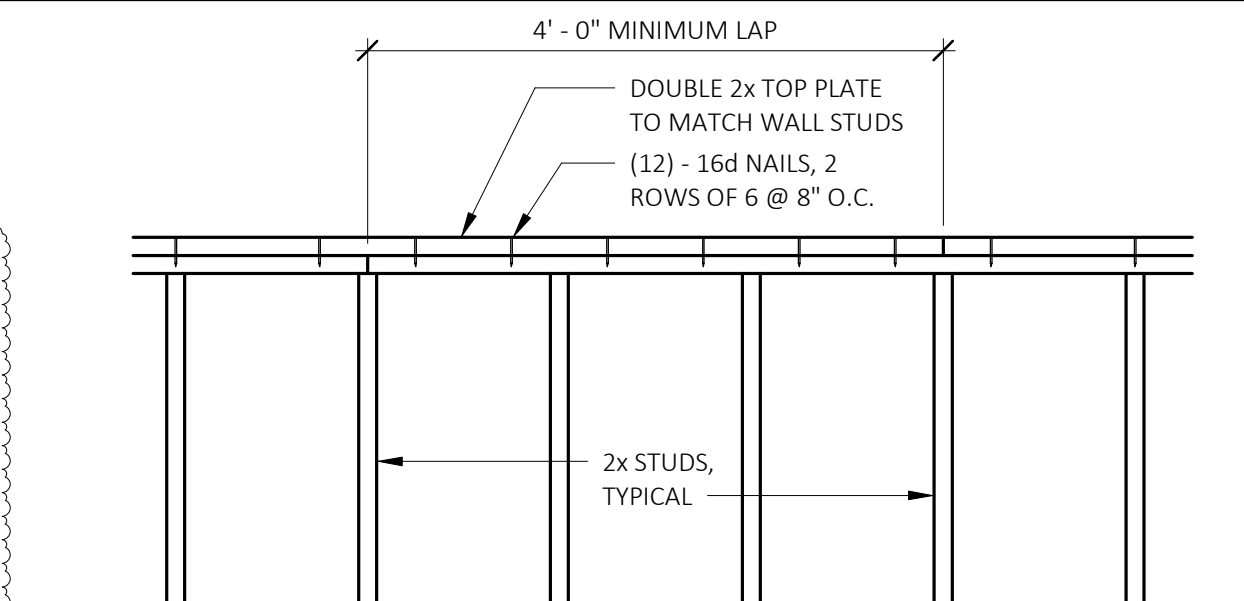
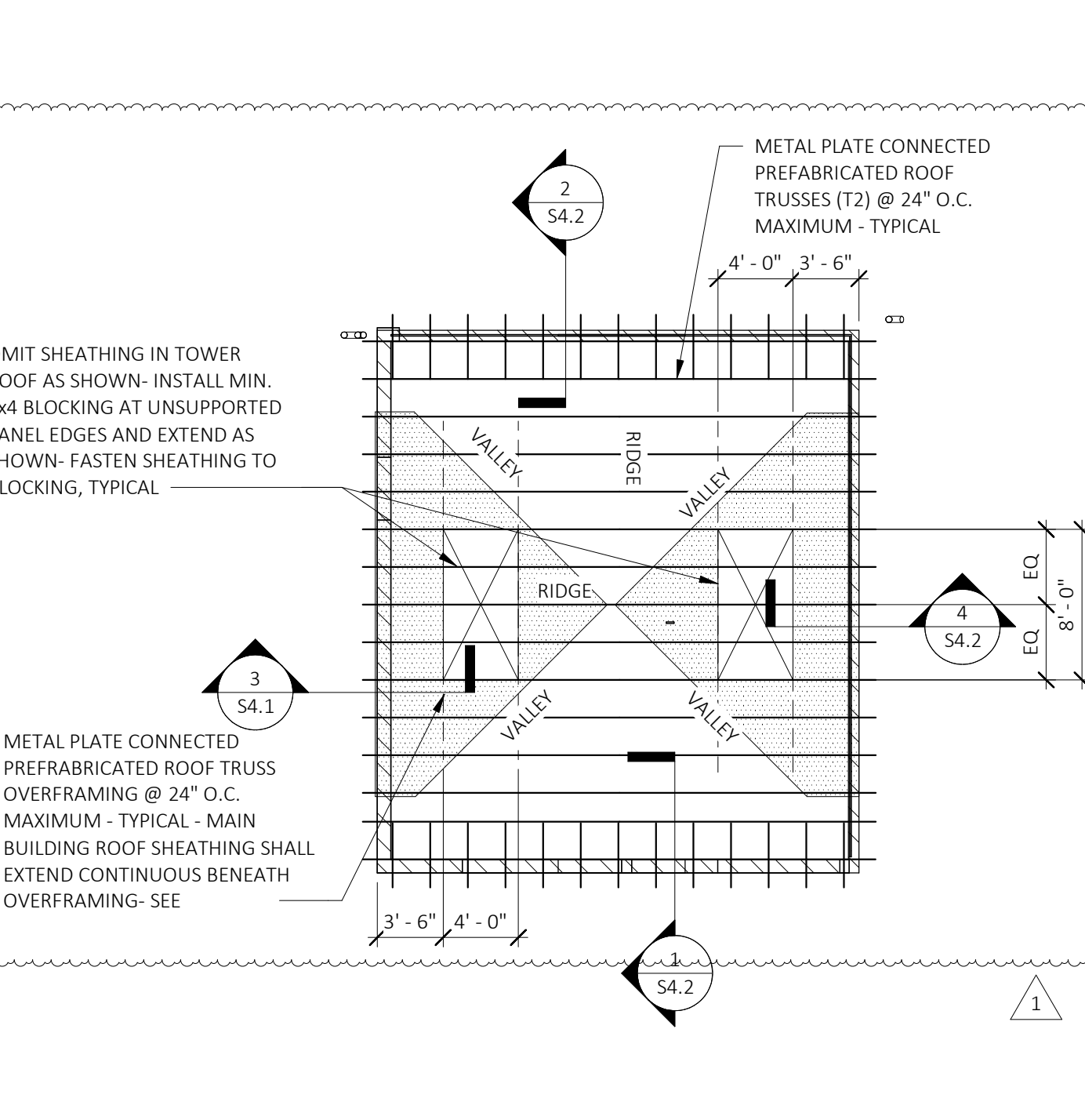
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Project Number 2202640
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Permit Date 7/13/23
For Construction --/--

ROOF FRAMING PLAN

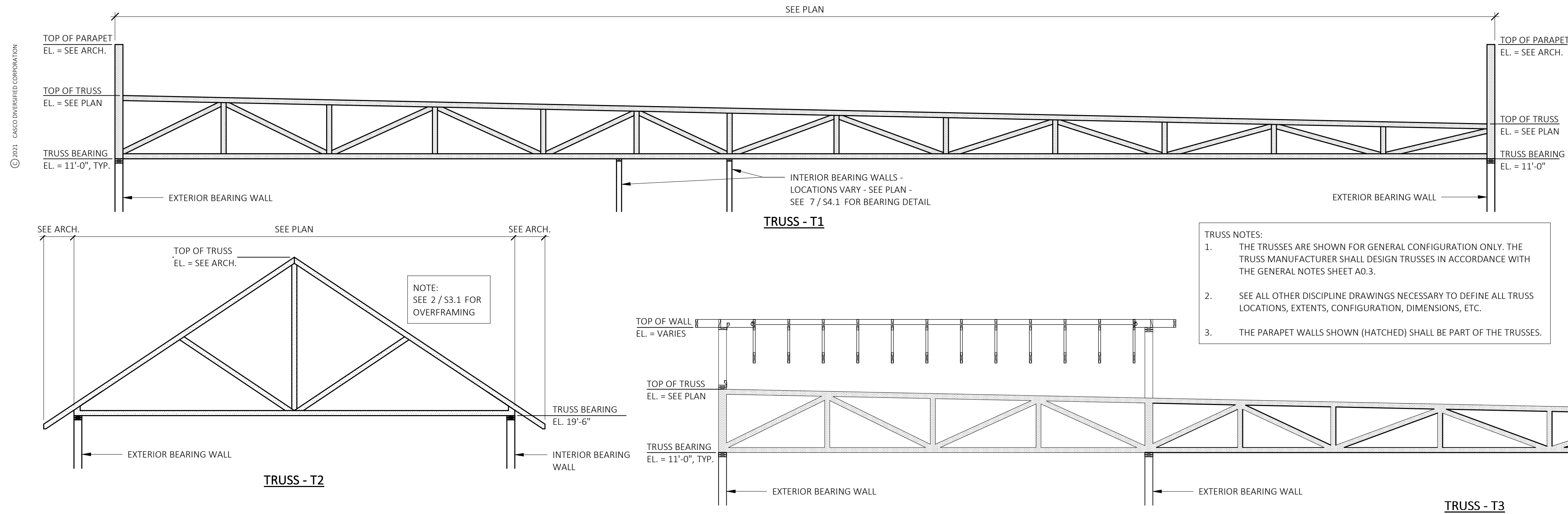
S3.1

ROOF FRAMING PLAN

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



11/7/2023 5:42:32 PM



SHEAR WALL SCHEDULE

MARK	WALL STUDS	HOLDDOWN MARK	HOLDDOWN (SIMPSON)	HOLDDOWN ANCHOR (CAST-IN-PLACE)	MINIMUM ANCHOR BOLT EMBEDMENT	END POST	EXTERIOR WALL SHEATHING THICKNESS	PANEL EDGE & END POST NAILING	FIELD NAILING (PROVIDE BLOCKING @ ALL PANEL EDGES)	SILL PLATE ANCHOR SPACING
SW-1	2x6 @ 16" O.C. MAX.	HD-1	HDU4-SDS2.5	SIMPSON SB5/8x24	18"	(3) 2x6	15/32	10d at 6" O.C.	10d at 12" O.C.	32"
SW-2	2x6 @ 16" O.C. MAX.	HD-2	HDU8-SDS2.5	SIMPSON SB7/8x24	18"	(3) 2x6	15/32	10d at 4" O.C.	10d at 12" O.C.	32"
SW-3	2x8 @ 16" O.C. MAX.	HD-3	HDU4-SDS2.5	SIMPSON SB5/8x24	18"	(3) 2x8	23/32	10d at 6" O.C.	10d at 12" O.C.	32"
SW-4	2x8 @ 16" O.C. MAX.	HD-4	HDU8-SDS2.5	SIMPSON SB7/8x24	18"	(3) 2x8	23/32	10d at 4" O.C.	10d at 12" O.C.	32"

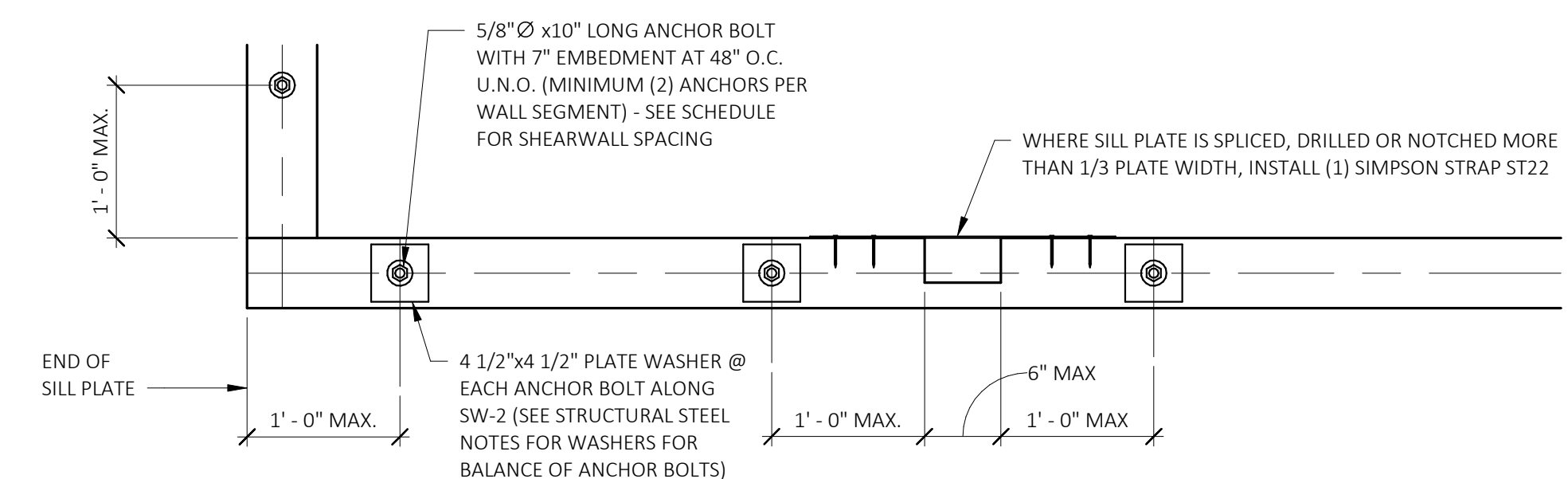
TRUSS NOTES:

- THE TRUSSES ARE SHOWN FOR GENERAL CONFIGURATION ONLY. THE TRUSS MANUFACTURER SHALL DESIGN TRUSSES IN ACCORDANCE WITH THE GENERAL NOTES SHEET A0.3.
- SEE ALL OTHER DISCIPLINE DRAWINGS NECESSARY TO DEFINE ALL TRUSS LOCATIONS, EXTENTS, CONFIGURATION, DIMENSIONS, ETC.
- THE PARAPET WALLS SHOWN (HATCHED) SHALL BE PART OF THE TRUSSES.

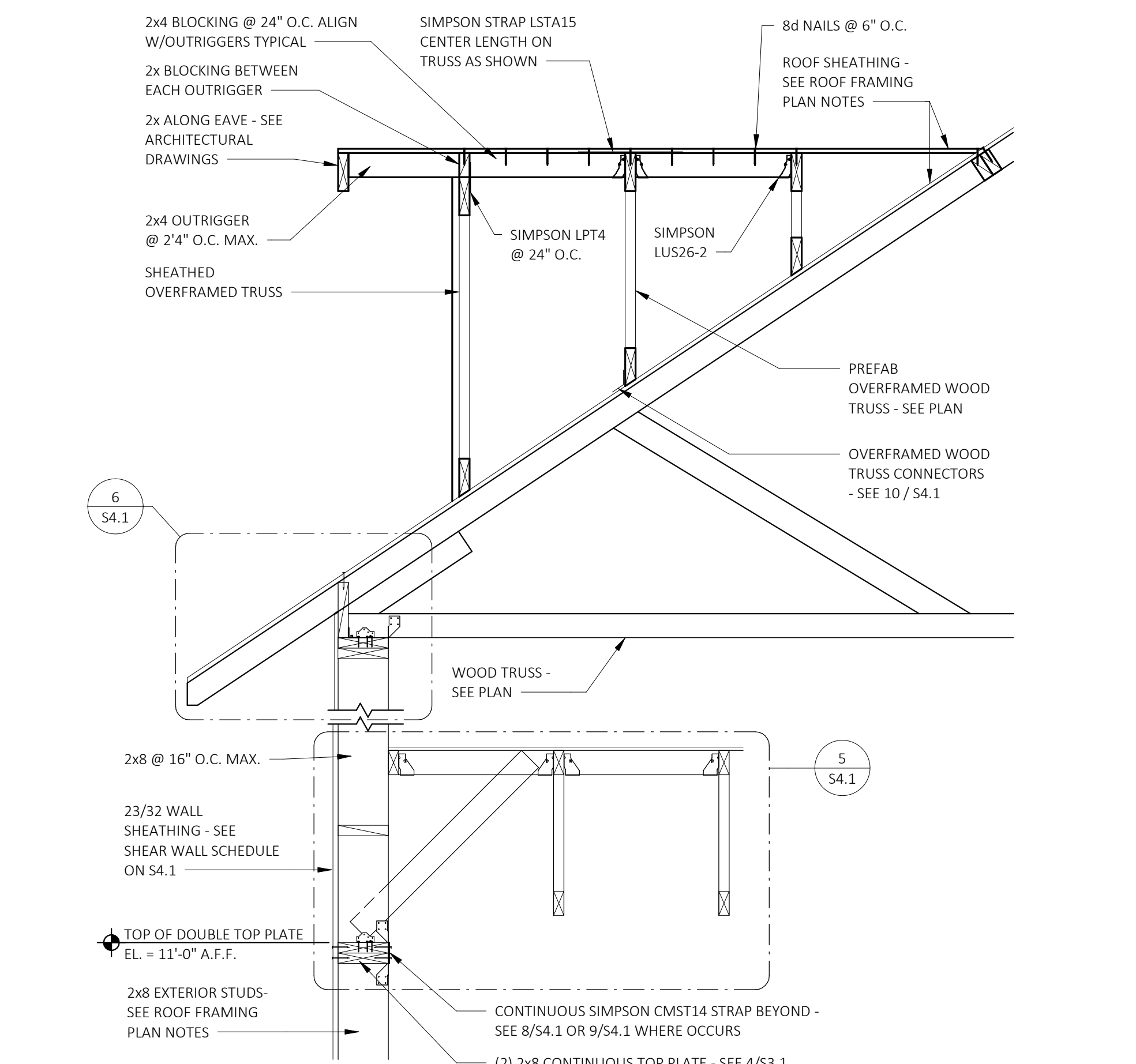
NOTES:

- SEE SHEET A0.3 (SECTION 06010.2.1) MATERIAL SPECIFICATIONS
- SEE FOUNDATION PLAN SHEET S1.1 FOR HOLDDOWN MARKS
- HOLDDOWNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS
- SEE 2 / S4.1 FOR SILL PLATE ANCHORAGE DETAIL

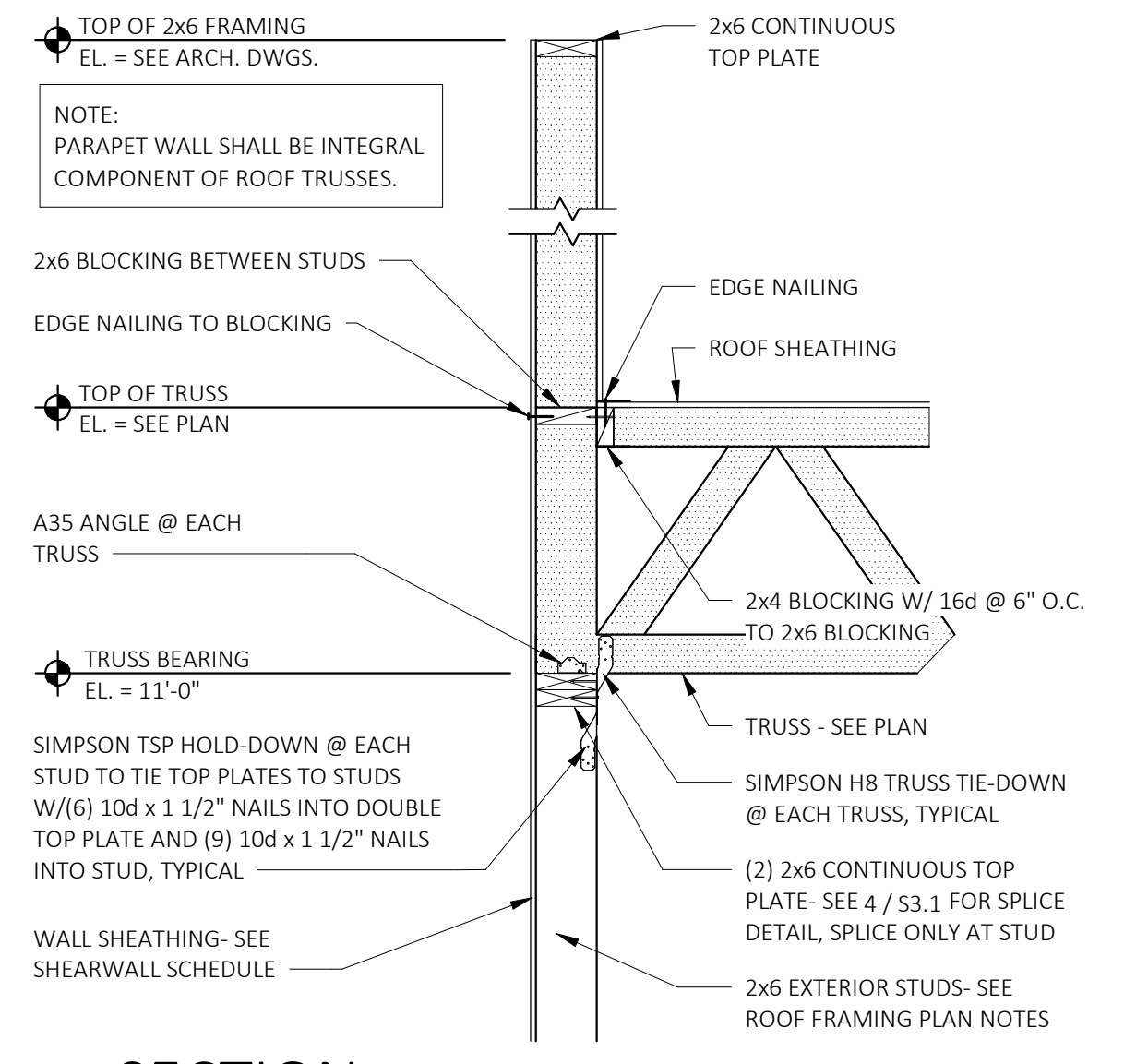
1 TRUSS ELEVATIONS
SCALE: 1/4" = 1'-0"



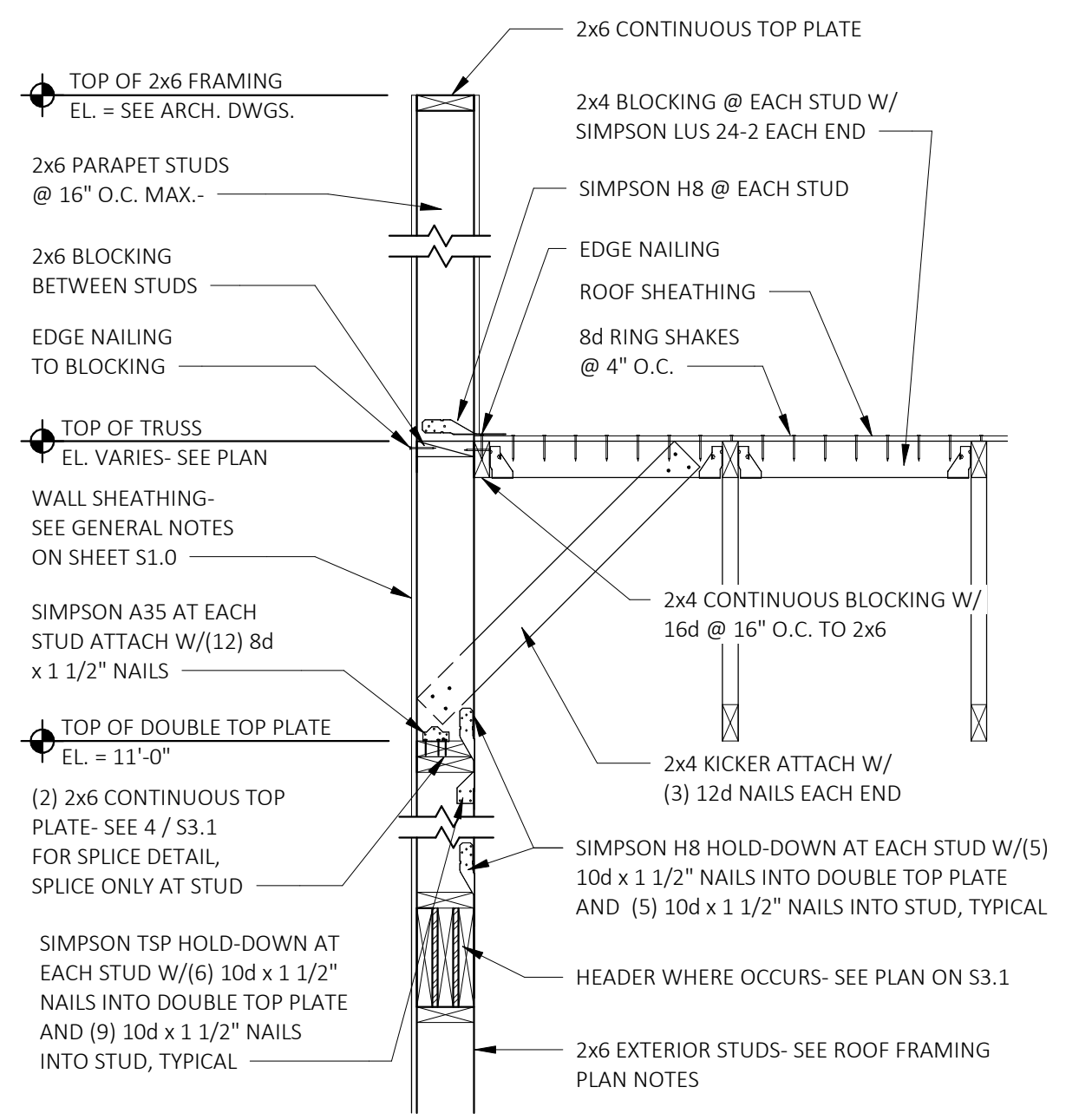
2 SILL PLATE DETAIL
SCALE: 1" = 1'-0"



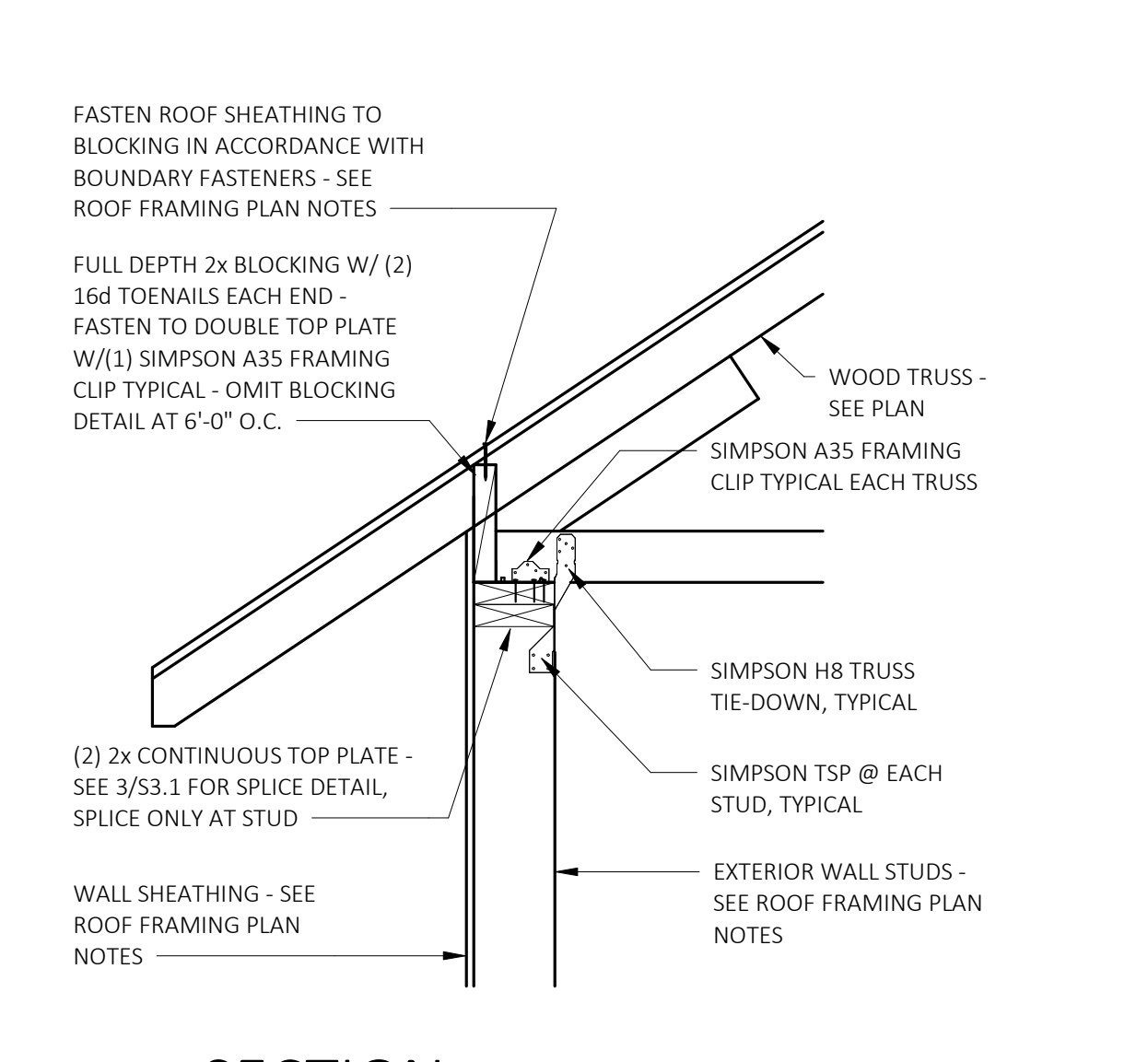
3 SECTION
SCALE: 3/4" = 1'-0"



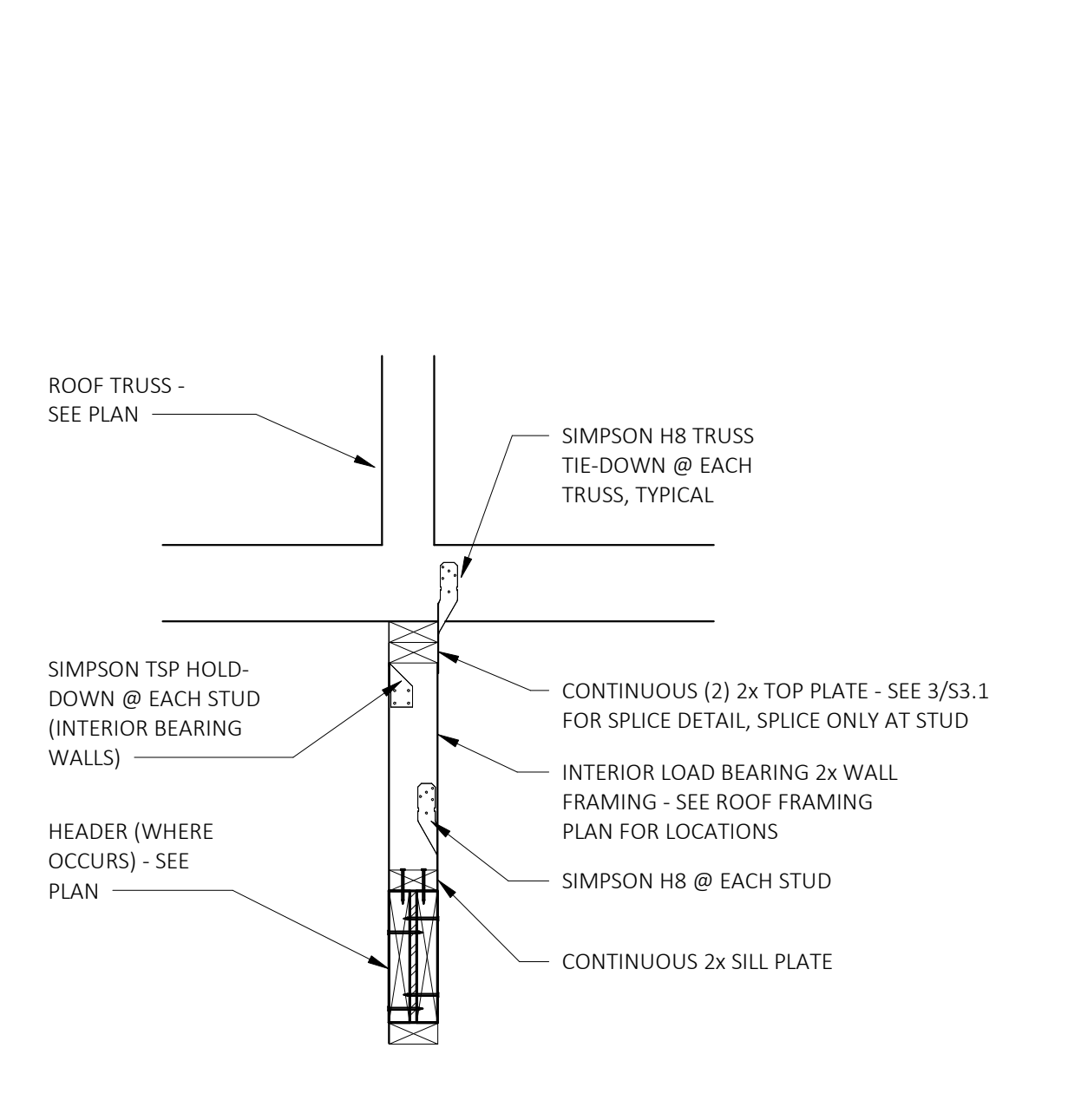
4 SECTION
SCALE: 3/4" = 1'-0"



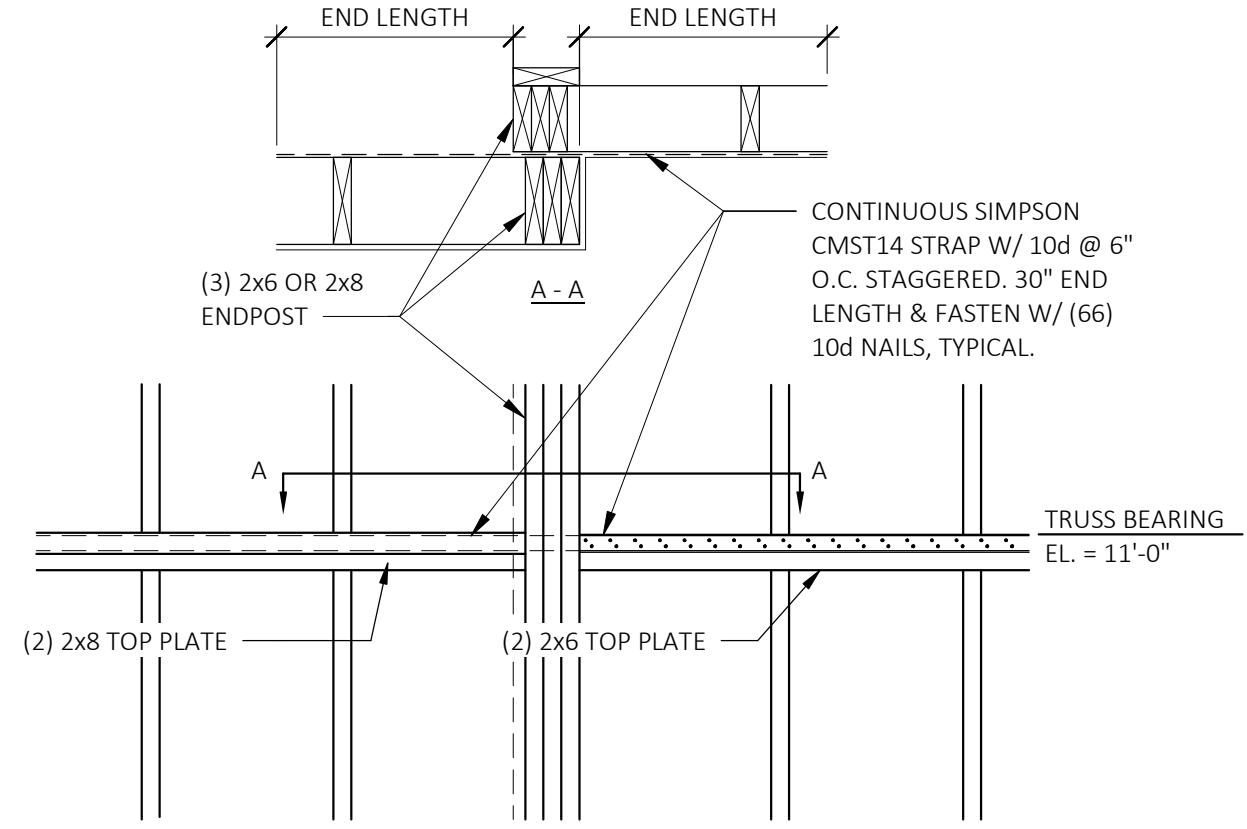
5 SECTION
SCALE: 3/4" = 1'-0"



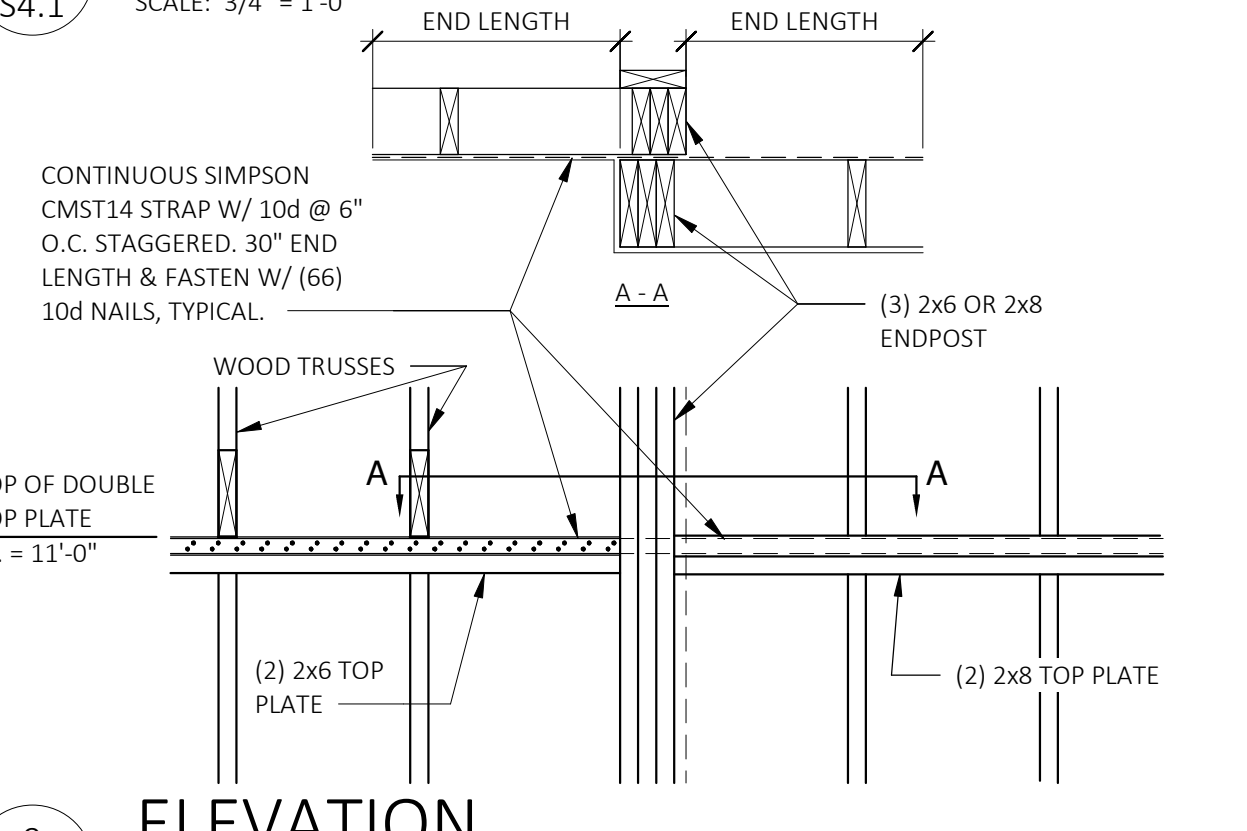
6 SECTION
SCALE: 1" = 1'-0"



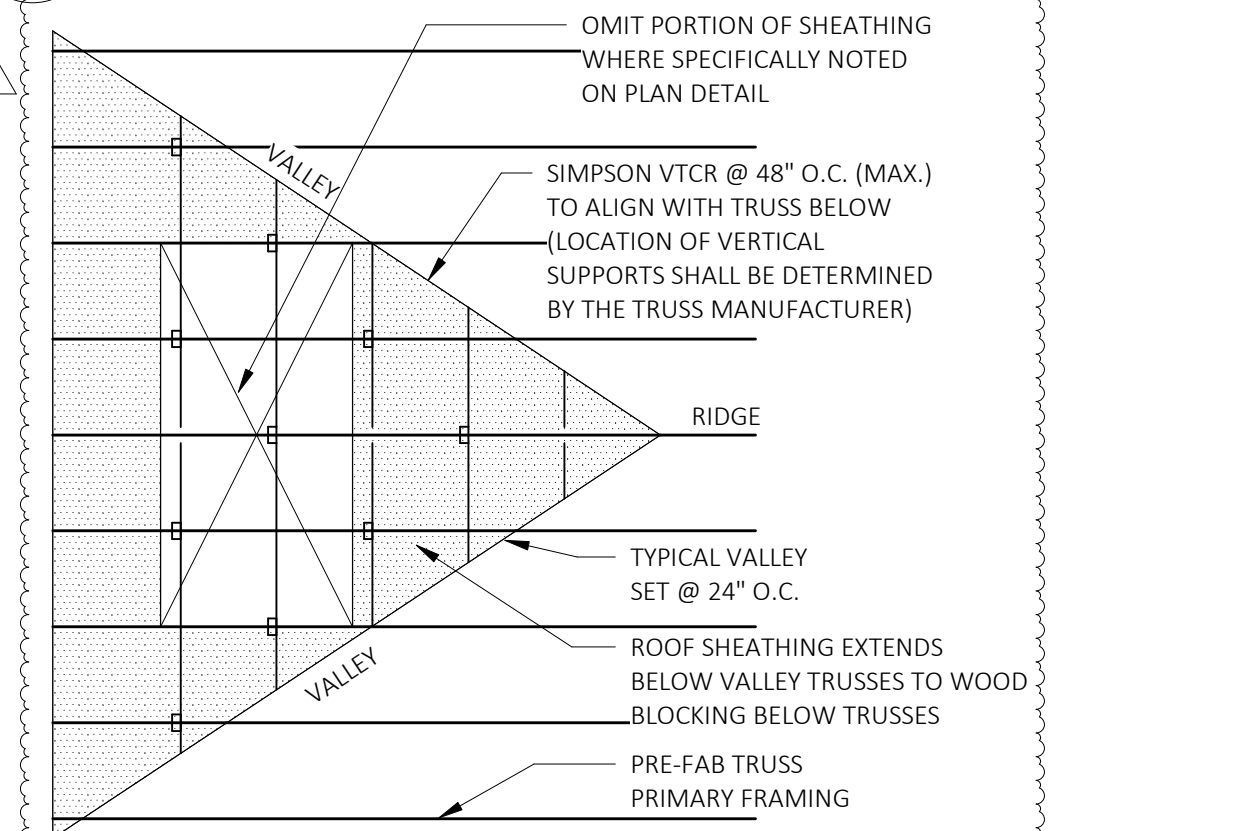
7 SECTION
SCALE: 1" = 1'-0"



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



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



10 PLAN DETAIL
SCALE: 1/4" = 1'-0"

CASCO
 CASCO OVERSIGHT CORPORATION
 12500 Dime, Suite 100, St. Louis, MO 63143 314.841.1300

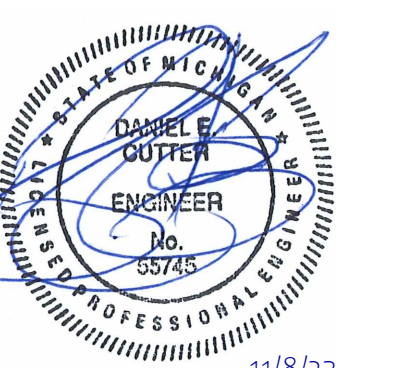
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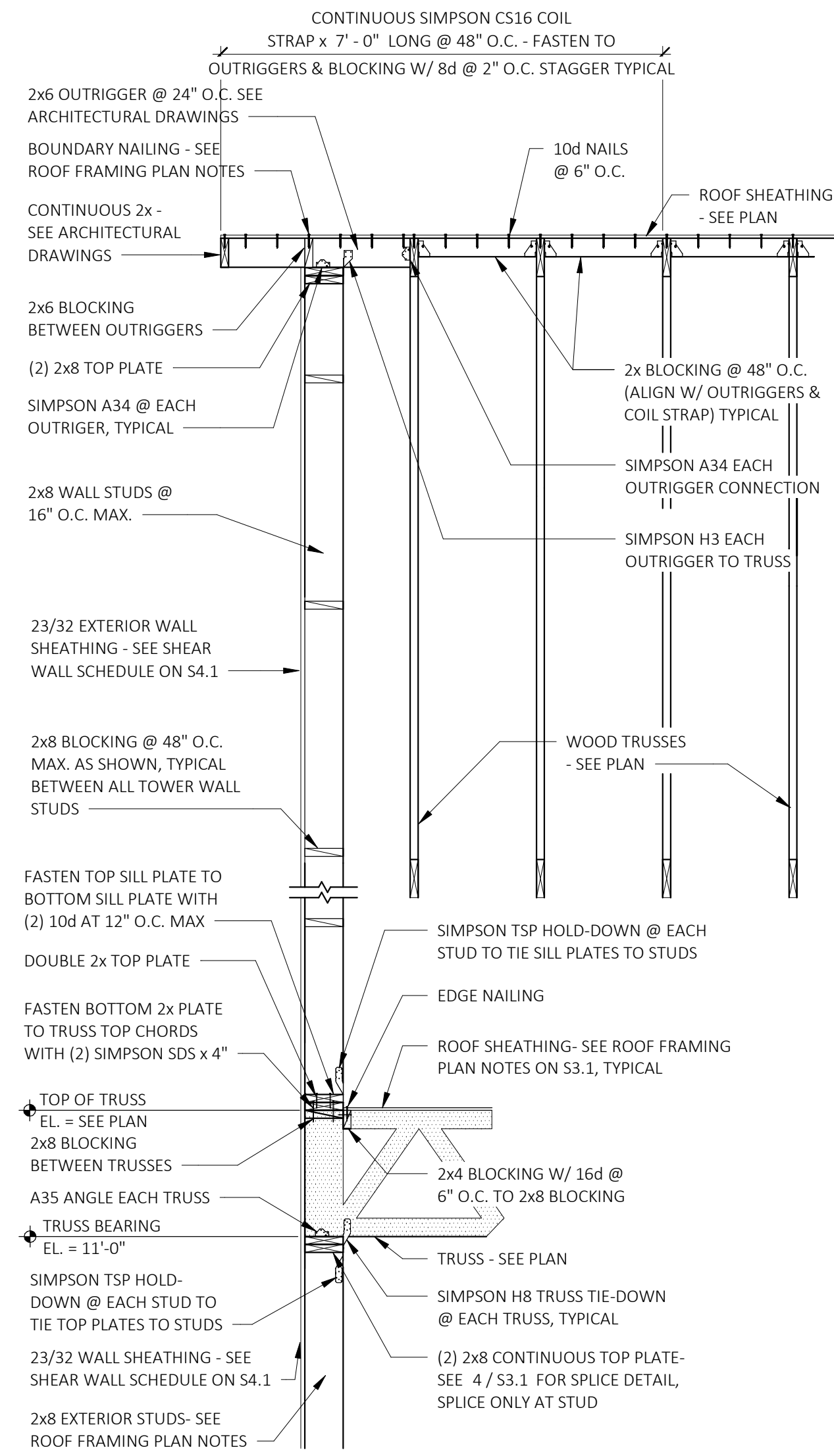
CONSTR. DOC. & REVISIONS
 Description
 No. 1
 CODE RESPONSE



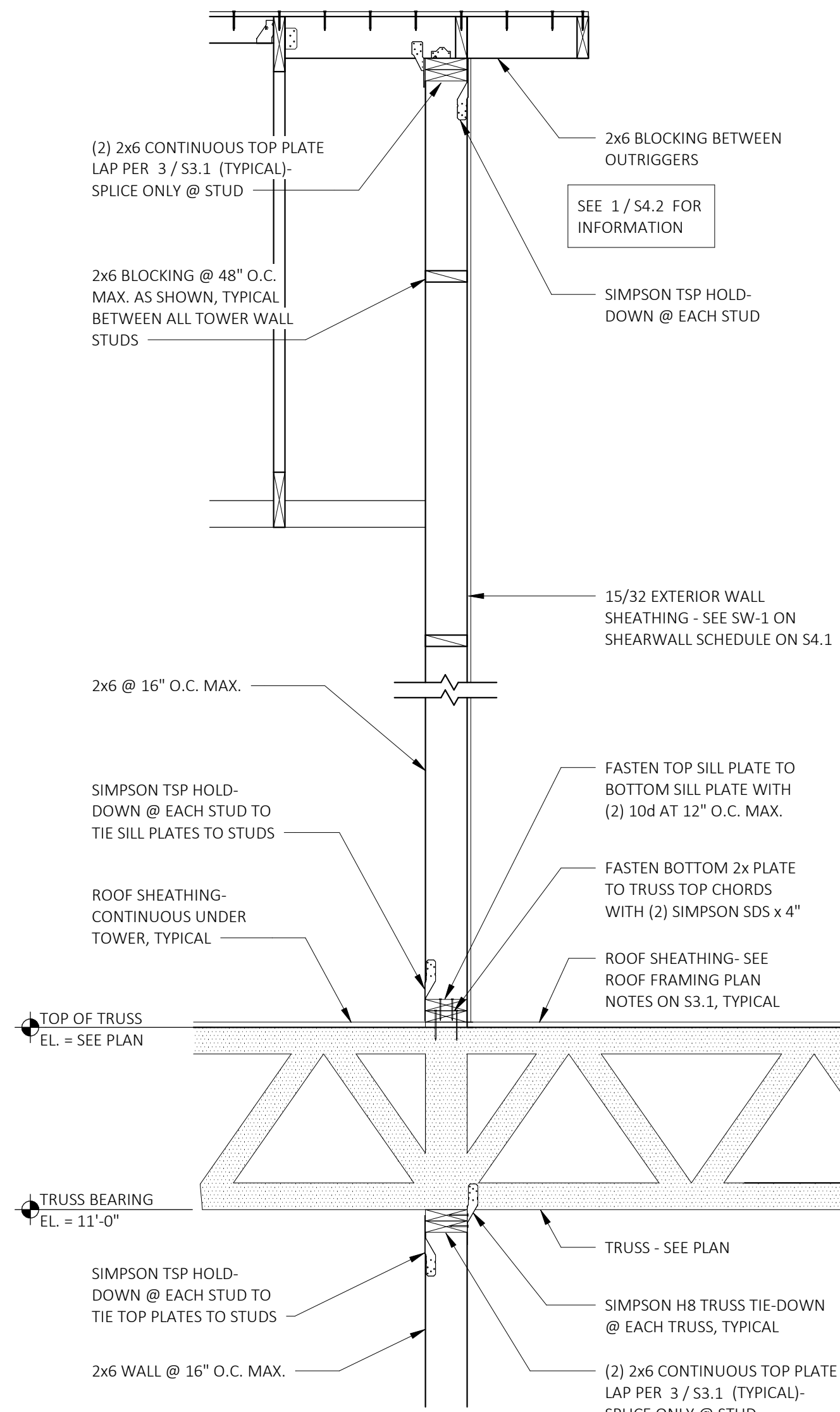
Professional of Record:
 Daniel E. Cutter
 LICENSE NO: 55745
 EXP. DATE: 10/10/24

Drawn/Checked DRW /SRW
 Project Number 2202640
 Bid Date --/--
 Permit Date 7/13/23
 For Construction --/--

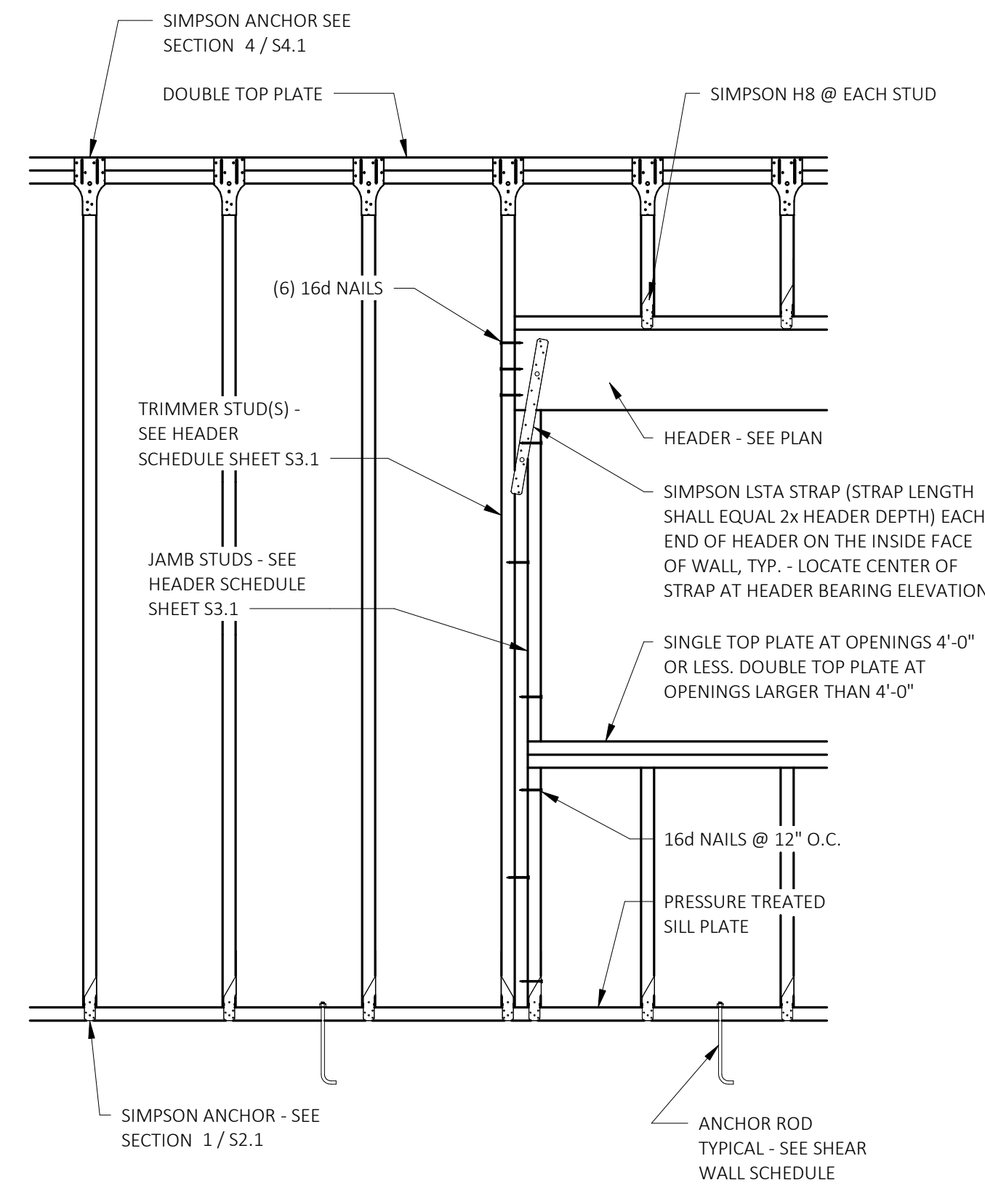
FRAMING DETAILS & SECTIONS
S4.1



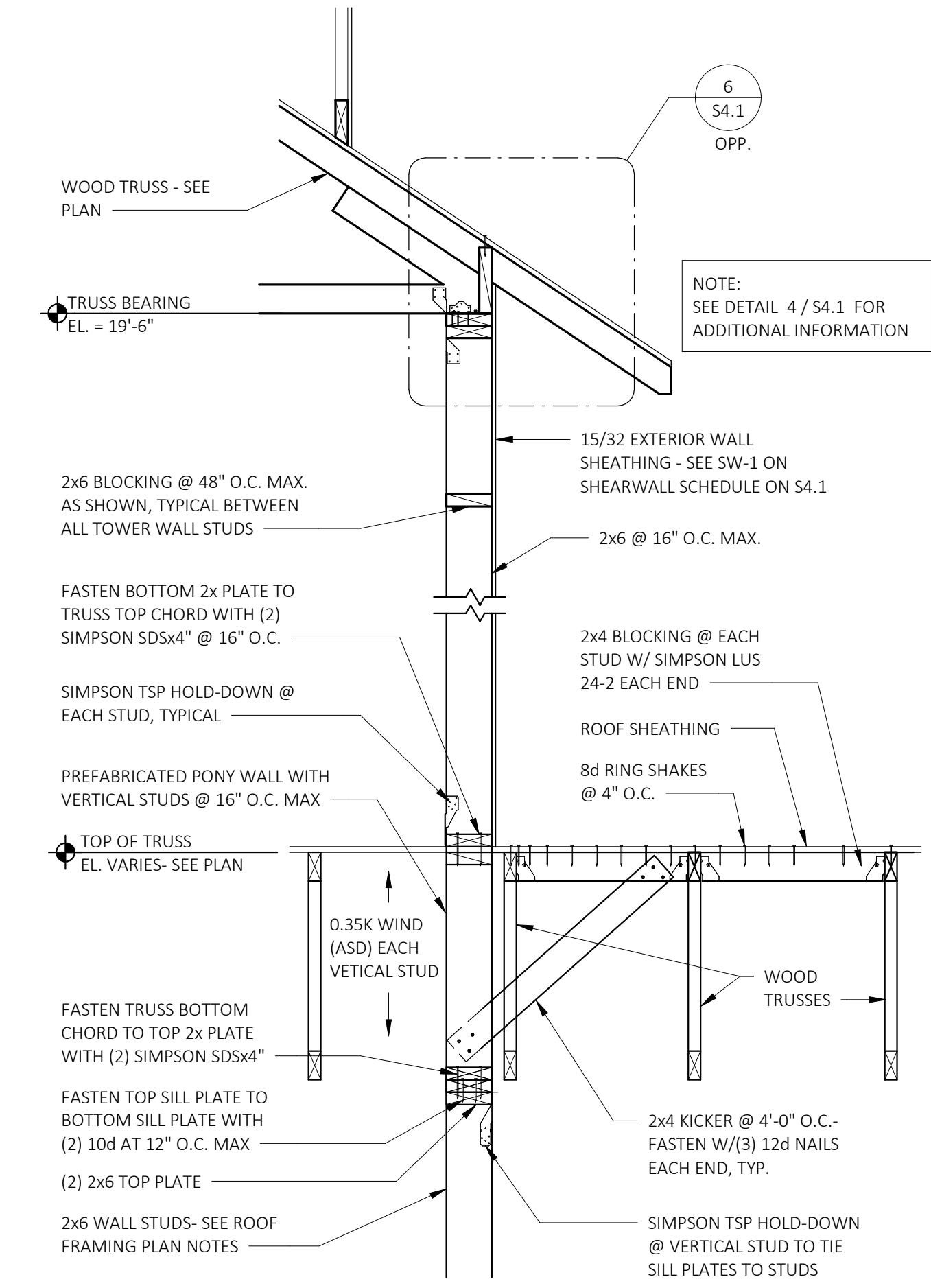
1 SECTION
S4.2 SCALE: 1/2" = 1'-0"



2 SECTION
S4.2 SCALE: 3/4" = 1'-0"



3 TYPICAL WALL FRAMING DETAIL
S4.2 SCALE: 3/4" = 1'-0"



4 SECTION
S4.2 SCALE: 3/4" = 1'-0"

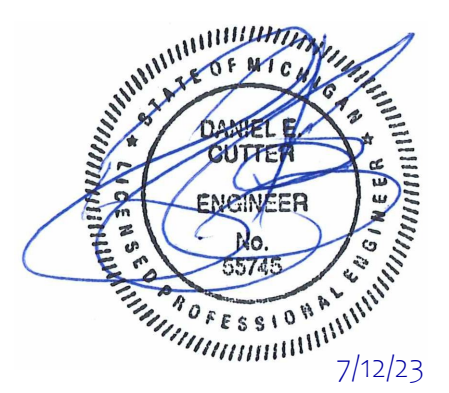
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FRAMING DETAILS & SECTIONS

S4.2

DIVISION 15 - PLUMBING & MECHANICAL

SECTION 15400 - PLUMBING

PART 1 - GENERAL

- 1. Scope of work: Plumbing Contractor shall furnish and install all plumbing piping where required, complete as called for or indicated on the Plans and Specifications according to all local codes, with these Plans as a minimum requirement.

PART 2 - PRODUCTS

- 1. Water Piping: Connect to the city water main as required by the city. Meter to be adequate size for demand indicated on the Drawings.

SECTION 15410 - PLUMBING FIXTURES AND TRIM

PART 1 - GENERAL

- 1. Acceptable Manufacturers: Equal products of Crane, American Standard, Eljer or Beneke will be accepted in place of those specified (see General Conditions of Contract), unless otherwise noted.

SECTION 15500 - AUTOMATIC SPRINKLER SYSTEM

PART 1 - GENERAL

- 1. General Requirements: The notice to Bidders, General Conditions, Special Conditions and all subsequent addenda or bulletins shall be considered a part of this division of the Specifications and shall apply to the Contractor for the work under this division insofar as they apply to them or their work.

SECTION 15800 - MATERIALS AND WORKMANSHIP - HVAC

PART 1 - GENERAL

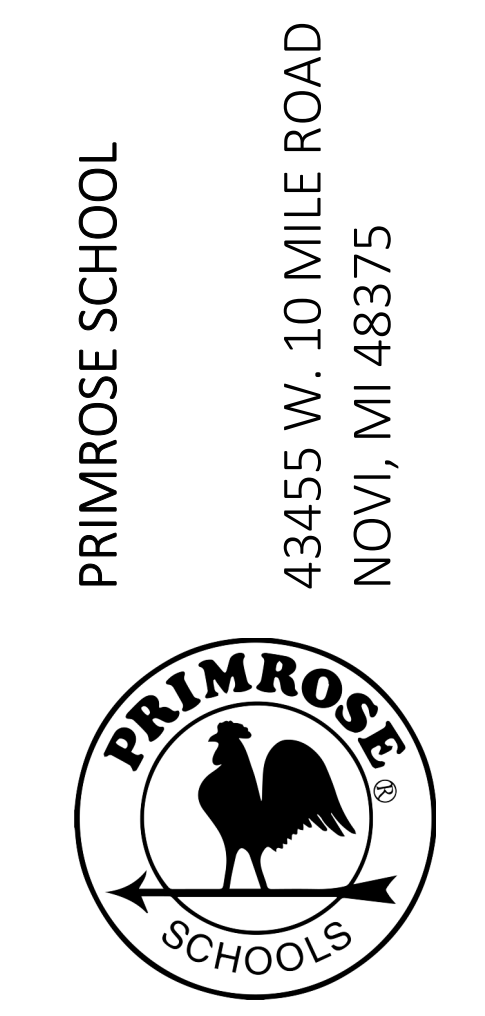
- 1. Materials and Workmanship: a. This Subcontractor shall provide for all cutting and excavating not provided in other sections of the plans and specifications which may be necessary for the admission of any part of the heating, air conditioning and refrigeration systems.

5. Duct Insulation:

- a. Internal liner shall not be allowed. Exterior wrap for supply, return, and exhaust air duct shall have a minimum installed value of R-8. All ductwork shall be insulated in accordance with the latest issue of SMACNA's and NESCA's minimum installation standards.

MECHANICAL ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes entries like AFF ABOVE FINISHED FLOOR, AHU AIR HANDLING UNIT, BTUH BRITISH THERMAL UNITS PER HOUR, etc.



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Professional stamp area for Michael C. Grapperhaus, Engineer No. 56692, dated 07/13/23.

Table with 2 columns: Field and Value. Includes Drawn/Checked BAM / MCG, Project Number 2202640, Bid Date --/--, Permit Date 7/10/23, For Construction --/--.

MECHANICAL & PLUMBING SPECIFICATIONS

MP1.0

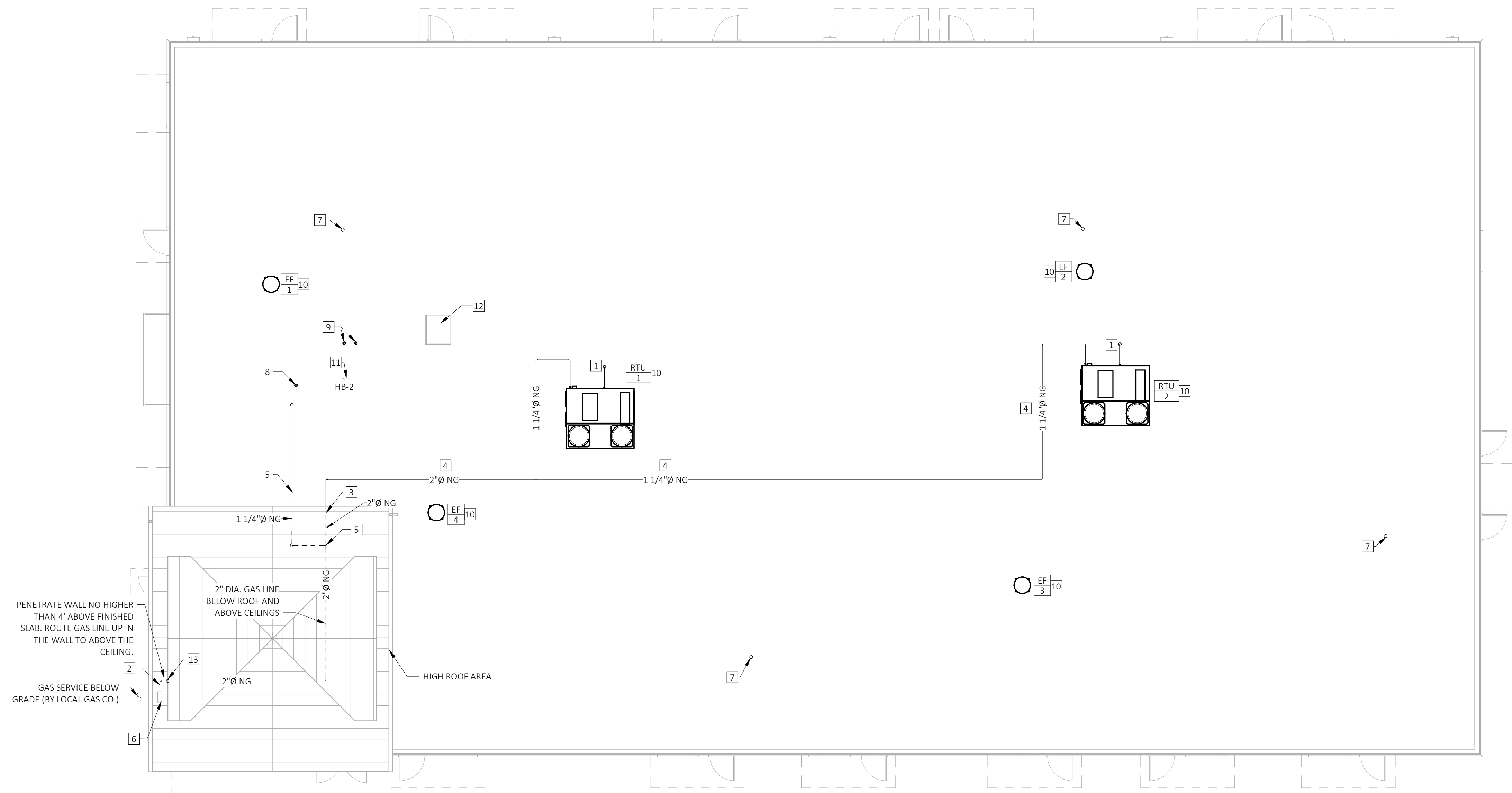
ROOF LEGEND & ABBREVIATIONS

XX-#	TYPE INDEX	EQUIPMENT TAG, SEE SCHEDULES ON SHEET M2.0
X	KEYED NOTE	
NG	NATURAL GAS PIPING ABOVE ROOF	
NG	NATURAL GAS PIPING BELOW ROOF	
C	CONDENSATE PIPING	
VTR	VENT THROUGH ROOF	
RTU	ROOFTOP UNIT	
EF	EXHAUST FAN	

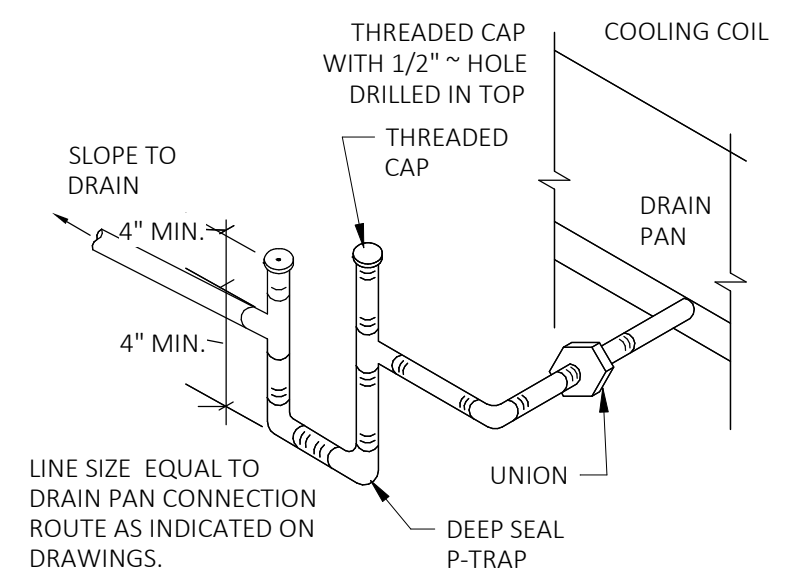
NATURAL GAS LOAD/SIZE

LOAD CHART		SIZING TABLE (10") W.C.	
PRIMROSE SCHOOL "L" PROTOTYPE		BASED ON 0.5" WC PRESSURE DROP TOTAL PIPE LENGTH = 250 FT.	
	MBH	SIZE	MAX MBH
RTU 1	216.0	1/2"	30
RTU 2	211.8	3/4"	63
WATER HEATER 1	199.9	1"	119
TOTAL	627.7 MBH	1-1/4"	244
		1-1/2"	366
		2"	704
		2-1/2"	1120

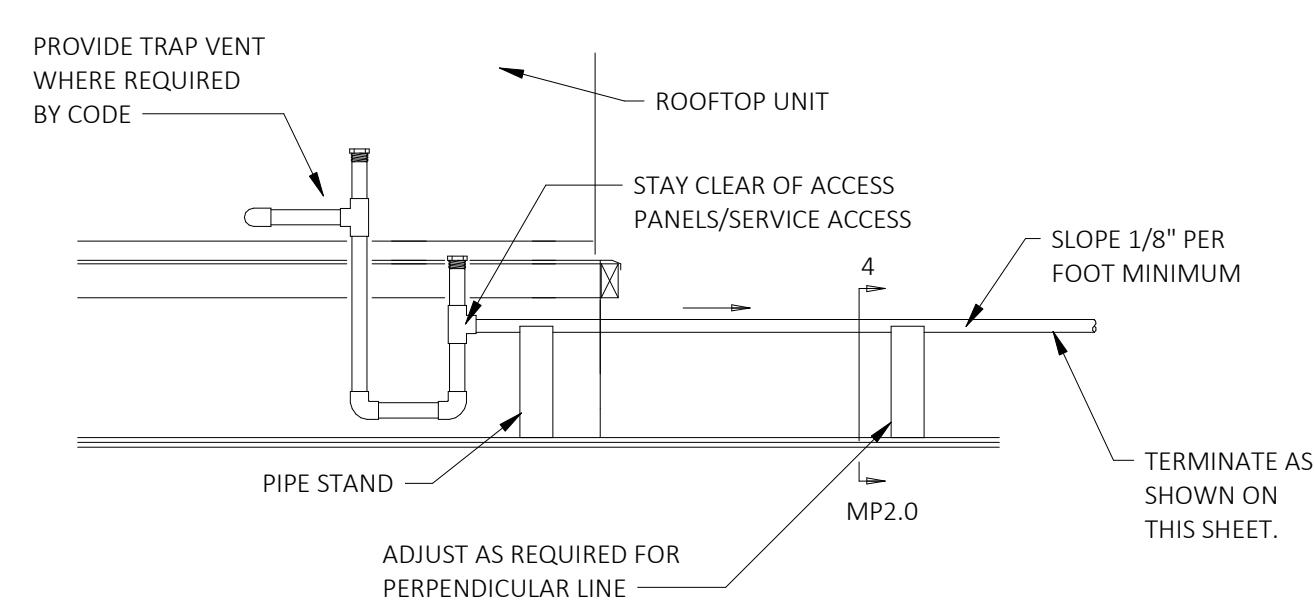
PER 2018 INTERNATIONAL FUEL GAS CODE - IFGC



1 MECH / PLUM ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH



2 CONDENSATE P-TRAP
SCALE: NOT TO SCALE



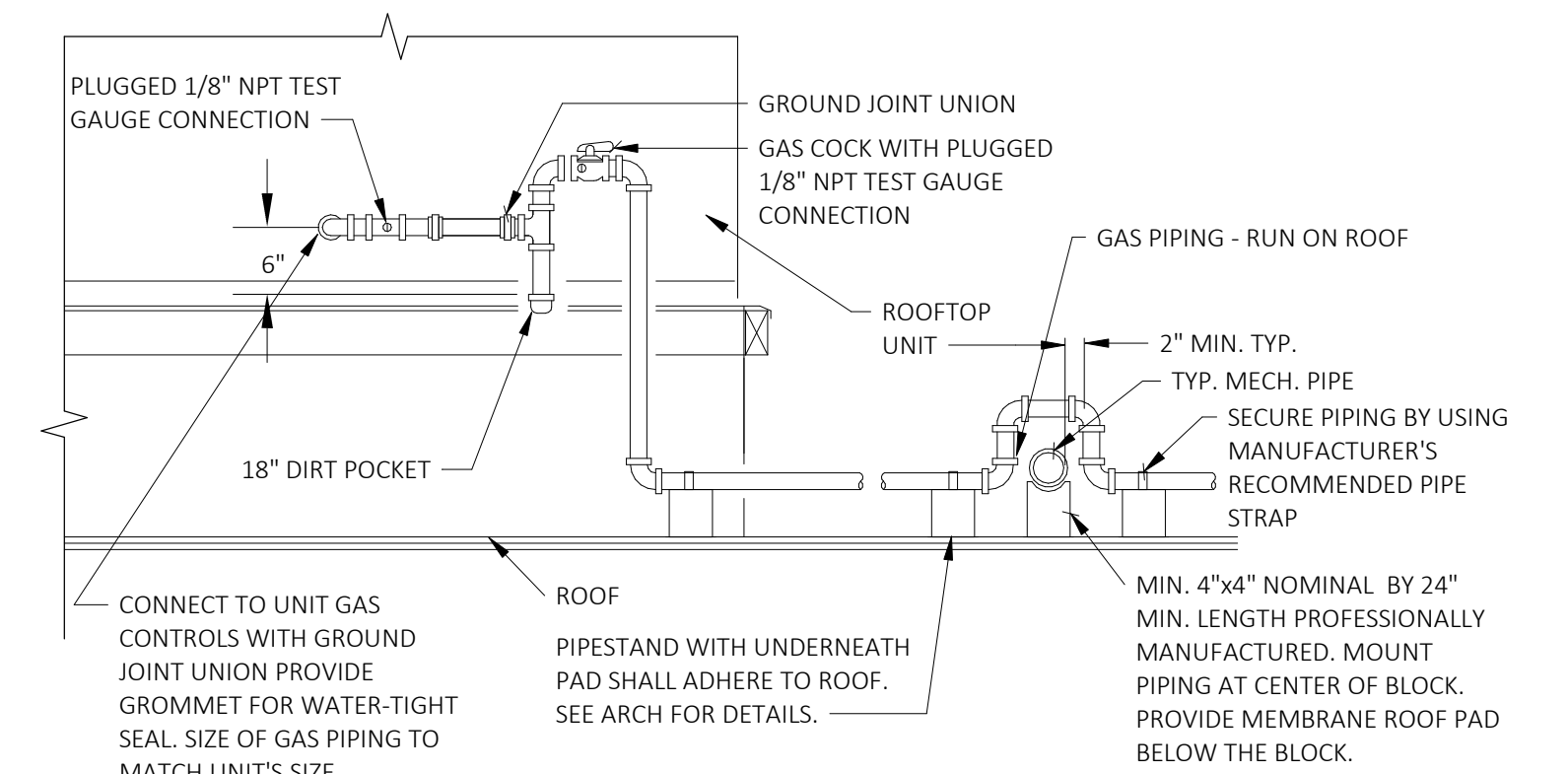
3 CONDENSATE PIPING DETAIL
SCALE: NOT TO SCALE

USE PIPE SUPPORT PER MIRO, MODEL AS FOLLOWS:

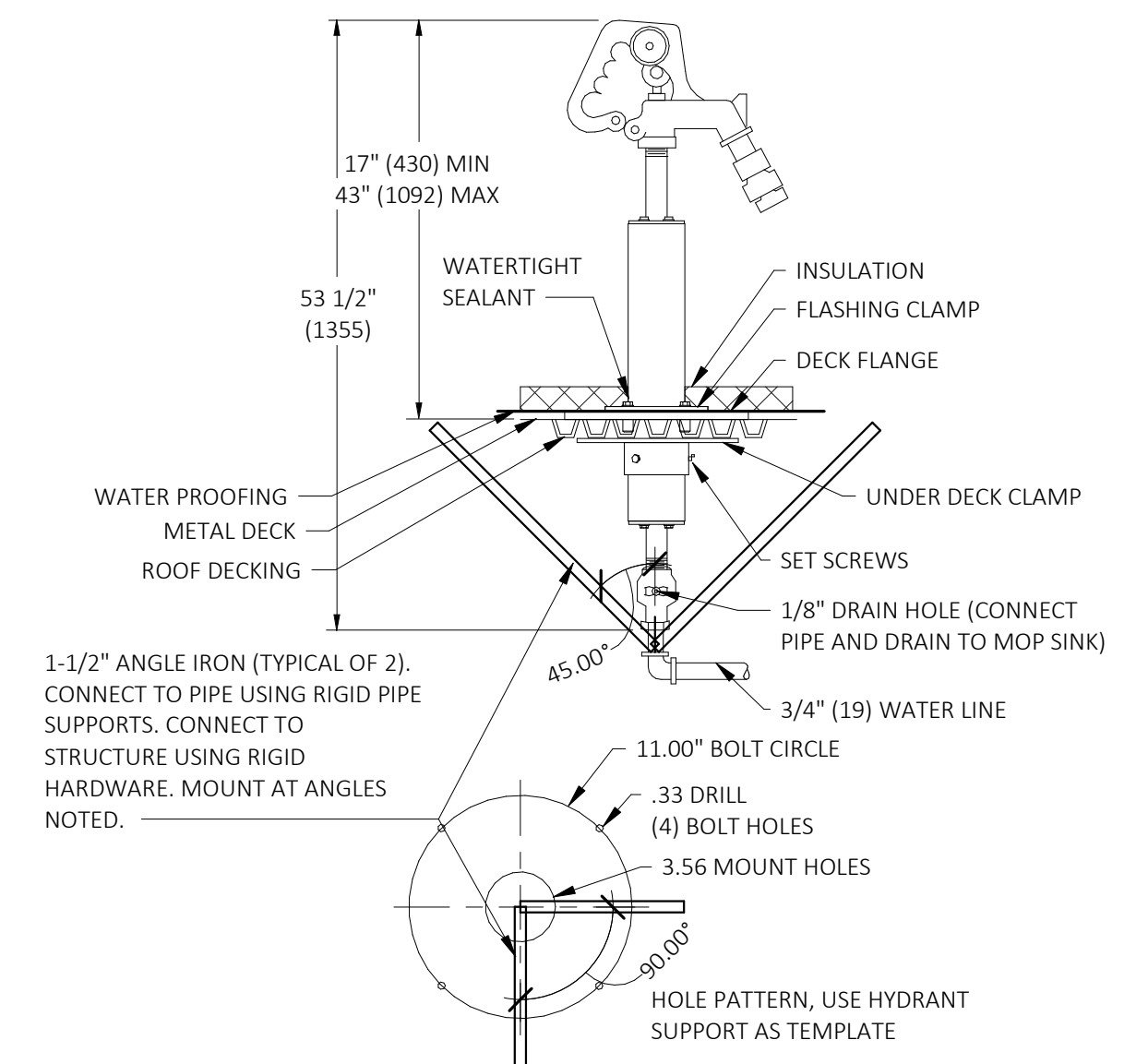
MODEL NO.	PIPE SIZE
1-5	0.5" TO 1.5"
3-R	2" TO 3"
4-R	4"
5-R	5"
8-R2	6"

OR APPROVED EQUAL
SPACING INTERVALS SHALL BE PER LOCAL CODE / AHJ

4 PIPE SUPPORT DETAIL
SCALE: NOT TO SCALE



5 GAS PIPING CONNECTION & SUPPORT DETAIL
SCALE: NOT TO SCALE



6 ROOF MOUNTED HOSE BIBB
SCALE: 1 1/2" = 1'-0"

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ATLANTA, GEORGIA 30339-5640

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Date	Description
	CONSTR. DOC. & REVISIONS

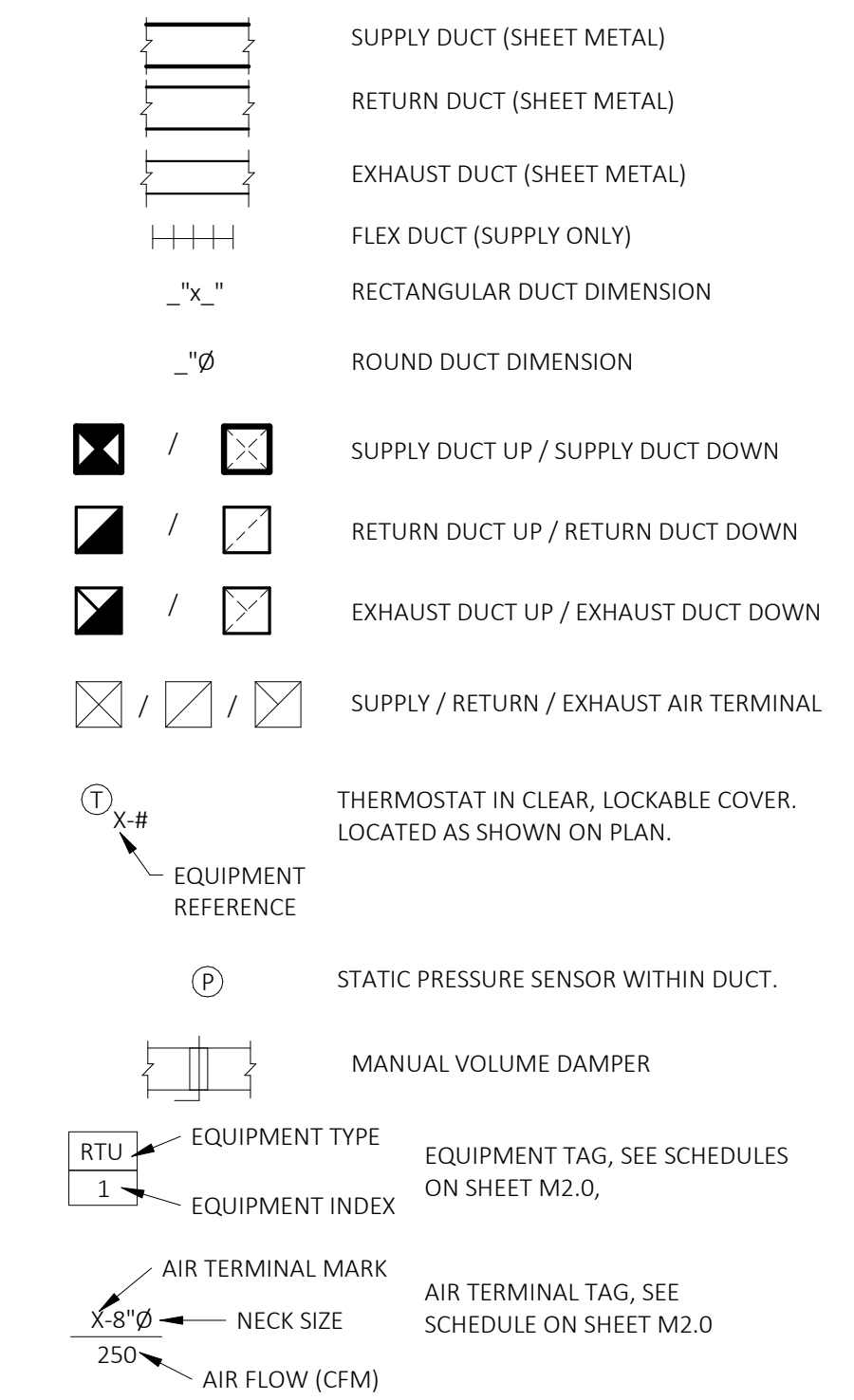
No. _____
Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

Drawn/Checked BAM / MCG
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

MECHANICAL & PLUMBING ROOF PLAN

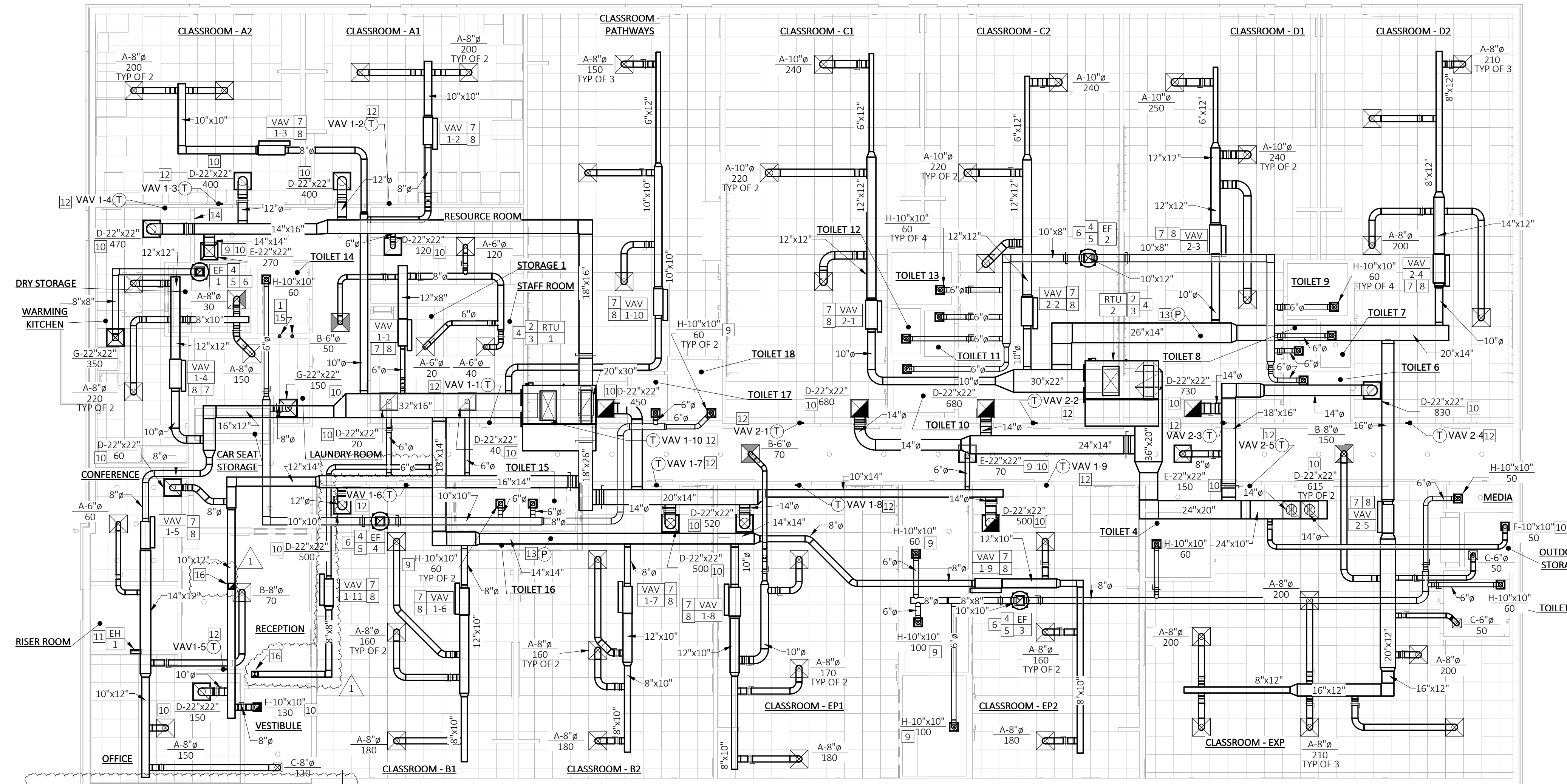
MP2.0

MECHANICAL LEGEND



MECHANICAL PLAN KEYED NOTES

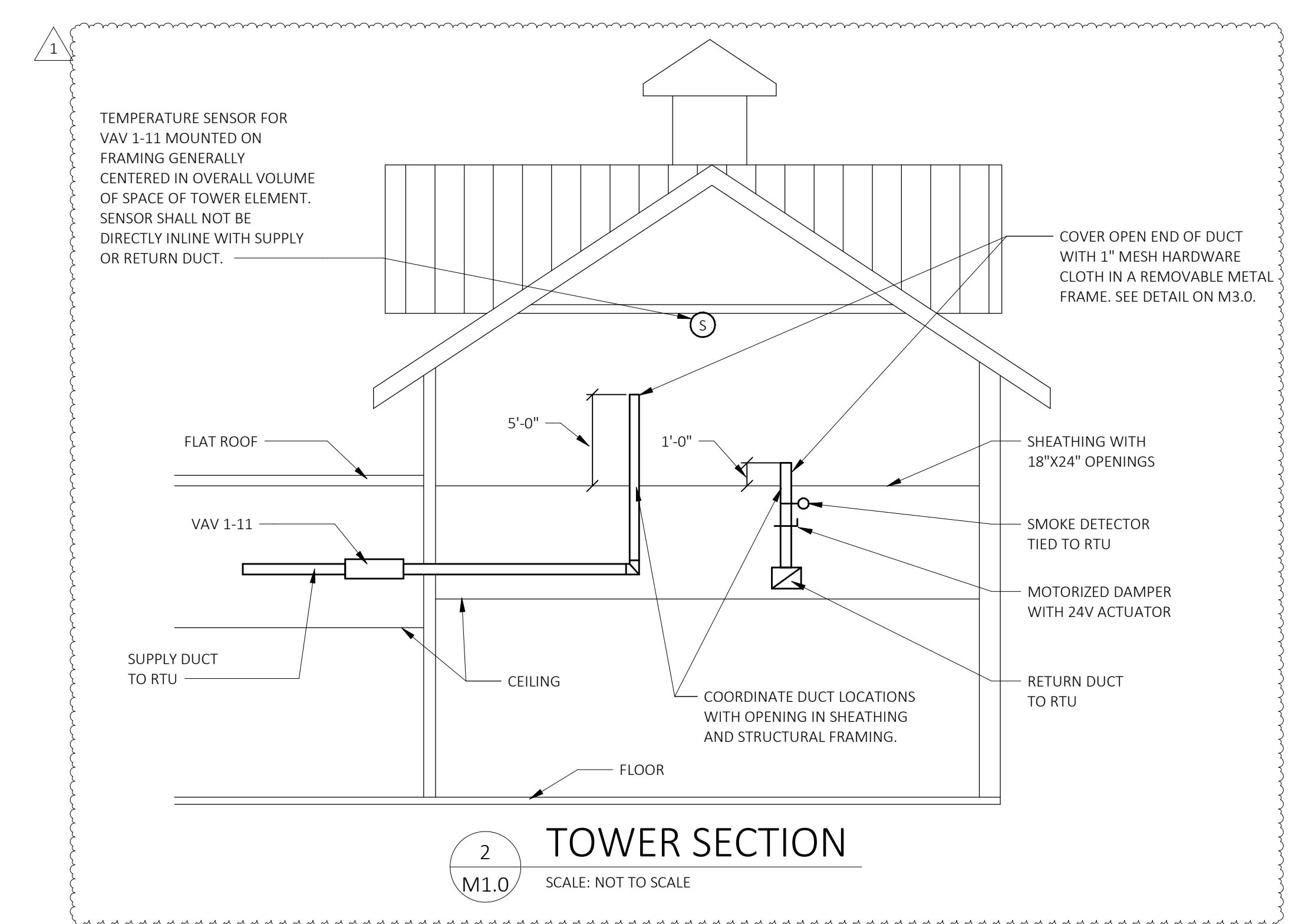
- 4" DIA. RIGID ALUMINUM DRYER VENT THRU ROOF, TERMINATE WITH CAP VENT AND BACKDRAFT DAMPER. DRYER SHALL BE EXHAUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. VENT SHALL BE ROUTED IN THE STRAIGHTEST ROUTE WITH THE FEWEST ELBOWS POSSIBLE. SEE DETAIL ON SHEET M3.0.
- RTU TO BE INSTALLED ON FACTORY CURB. EXTEND FULL SIZE SUPPLY AND RETURN DUCT DROPS THRU ROOF. TRANSITIONS TO BE MADE IN VERTICAL DROP, TRANSITION TO THE SIZE SHOWN ON THIS PLAN. SEE SHEET M3.0 FOR DETAIL.
- OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10' FROM ANY HAZARD OR NOXIOUS CONTAMINANT SUCH AS CHIMNEYS, PLUMBING VENTS, STREETS, ALLEYS, PARKING LOTS, EXCEPT AS SPECIFIED OTHERWISE IN CODES. WHERE A SOURCE OF CONTAMINANT IS LOCATED WITHIN 10' OF AN INTAKE OPENING, SUCH OPENING SHALL BE LOCATED A MINIMUM OF 2' BELOW THE CONTAMINATION SOURCE.
- MARK THE RTU/EF WITH UNIT NUMBER AND WHICH ROOM THEY SERVE, ON SIDE OF THE UNITS MOST VISIBLE FROM THE ROOF HATCH.
- EXTEND DUCT UP AT SIZE SHOWN ON PLAN AND PROVIDE DUCT TRANSITION AS REQUIRED TO CONNECT TO EF.
- EXHAUST FAN SHALL BE MOUNTED ON ROOF. SEE DETAIL SHEET M3.0.
- CONTRACTOR SHALL TRANSITION AS NECESSARY TO CONNECT DUCTWORK FROM SIZES SHOWN ON PLANS TO VAV UNIT INPUT AND OUTPUT.
- CONTRACTOR SHALL INSTALL VAV BOX NO MORE THAN 12" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. UNIT SHALL BE HUNG FROM THE STRUCTURE ABOVE WITH FOUR (4) COMMERCIAL GRADE HANGER STRAPS CONNECTED DIRECTLY TO EACH CORNER OF THE MAIN UNIT. CONTRACTOR MUST LEAVE MINIMUM OF 4" OF STRAIGHT, NON-INTERRUPTED DUCT BEFORE AND AFTER THE VAV BOX. THESE 4" SECTIONS SHALL BE THE SIZE OF THE VAV BOX INLETS AND OUTLETS RESPECTIVELY.
- DIFFUSER MUST BE PROVIDED WITH DAMPER. DAMPER MUST BE ACCESSIBLE FROM ROOM.
- TRANSITION FROM SQUARE NECK ON DIFFUSER TO ROUND DUCT AS SHOWN ON PLAN AS NECESSARY.
- MOUNT BOTTOM OF ELECTRIC UNIT HEATER AT 12" AFF. HEATER TO BE PROVIDED WITH INTEGRAL THERMOSTAT AND SET TO TURN ON WHEN THE SPACE TEMPERATURE FALLS BELOW 50 DEG F. INSTALL UNIT PER MANUFACTURER'S INSTRUCTION. REFER TO SHEET M2.0 FOR SCHEDULE.
- INSTALL HARD WIRED THERMOSTAT AT 48" A.F.F. PROVIDE WITH CLEAR LOCKABLE COVER.
- STATIC PRESSURE SENSOR TO CONTROL RTU. INSTALL IN DUCT AS SHOWN ON PLAN.
- KITCHEN DOOR TO BE LOUVERED SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- DRYER DUCT SHALL HAVE 4" DIA. SECONDARY DRYER LINT TRAP INSTALLED APPROXIMATELY 4 FEET FROM THE OUTLET AND BELOW THE CEILING IN LAUNDRY ROOM. REFER TO DETAIL ON SHEET M3.0 AND ARCHITECTURAL INTERIOR ELEVATIONS.
- DUCT UP INTO TOWER ELEMENT. SEE DETAIL THIS SHEET. COORDINATE LOCATIONS WITH STRUCTURAL FRAMING AND LOCATION OF OPENINGS IN SHEATHING.



1 HVAC DUCT PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL GENERAL NOTES

- DUCTWORK AND HVAC EQUIPMENT SHOWN IS DIAGRAMMATIC. COORDINATE AND FIELD ROUTE DUCTWORK TO MEET JOB REQUIREMENTS. LOCATION OF EQUIPMENT MUST BE COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHTS OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOB SITE.
- ALL SUPPLY & RETURN DUCT WORK SHALL BE INSULATED WITH MINIMUM INSTALLED VALUE OF R-8 DUCT WRAP WITH ALL SERVICE JACKET & SEALED. WRAP INTAKE & EXHAUST DUCTS WITH MINIMUM INSTALLED VALUE OF R-8 DUCT WRAP INSULATION, VAPOR RETARDER & SEAL.
- ALL DUCT SHALL BE SHEET METAL EXCEPT LAST 4' OF SUPPLY DUCT TO DIFFUSER MAY BE FLEX. NO ANGULAR BENDS ALLOWED IN FLEX DUCT. SEE DETAIL ON SHEET M3.0.
- PROVIDE TURNING VANES AT ALL RECTANGULAR ELBOWS
- SHEET METAL DUCT GAUGES AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA LOW PRESSURE DUCT STANDARDS.
- MOUNT ALL SENSORS 60" A.F.F.
- REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF ALL GRILLES, DIFFUSERS, ETC.
- LABEL ALL SENSORS, EXHAUST FANS, ROOFTOP UNITS, AND VAV UNITS WITH ENGRAVED PLASTIC SIGNS.
- ROUTE ALL DUCT WORK ABOVE CEILINGS AND BELOW BOTTOM CHORD OF TRUSSES.
- VENTS SHALL BE TERMINATED A MINIMUM OF 1'-0" ABOVE ROOF AND 3'-0" AWAY FROM PARAPETS OR WALLS AND 10'-0" AWAY FROM ANY MECHANICAL AIR INTAKES.
- PROVIDE THERMOSTATS TO SENSE TEMPERATURE AT LOCATIONS SHOWN ON PLAN.
- CONTRACTOR SHALL COORDINATE ALL SENSOR LOCATIONS WITH ALL OTHER DISCIPLINES PRIOR TO INSTALLATION.
- ALL TOILET ROOM DOORS MUST BE UNDERCUT 1" MINIMUM. COORDINATE WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY EXACT SPACING OF TRUSSES PRIOR TO STARTING DUCTWORK. CONTRACTOR SHALL VERIFY THAT ALL DUCTS HAVE ADEQUATE SPACE ABOVE CEILINGS. IF THERE IS ANY CONFLICTS, NOTIFY ARCHITECT.
- CONTRACTOR SHALL TRANSITION DUCTS BETWEEN RECTANGULAR AND ROUND AS REQUIRED TO CONNECT TO MECHANICAL EQUIPMENT AND DIFFUSERS.
- ALL ROOF PENETRATIONS SHALL BE SEALED AND MADE WEATHER TIGHT BY CONTRACTOR.
- GC TO FURNISH (THROUGH CAPTIVEAIRE REP) AND HVAC CONTRACTOR TO INSTALL FACTORY HVAC CURBS.
- CONTRACTOR TO CHANGE OUT ALL FILTERS AT CERTIFICATE OF OCCUPANCY AND TO PROVIDE ONE NEW FILTER REPLACEMENT FOR ALL UNITS.
- SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE CEILINGS IS CRITICAL. LIGHT FIXTURES AND AIR DEVICES HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT AND/OR OWNER. BECOME FAMILIAR WITH THE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS AND/OR DUCTWORK.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, LOCAL CODES, LAWS, ACTS, AMENDMENTS AND AUTHORITIES HAVING JURISDICTION.
- THE COMPLETED INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS OF GOOD PRACTICE AND SAFETY. THE MANUFACTURERS STRICTEST RECOMMENDATIONS FOR EQUIPMENT AND PRODUCT APPLICATION AND/OR INSTALLATION SHALL BE FOLLOWED.
- ALL WORK SHALL BE INSTALLED TO AVOID CONFLICTS WITH OTHER TRADES CLOSELY COORDINATE ALL WORK WITH ALL OTHER TRADES. FAILURE OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES SHALL RELIEVE THE ARCHITECT/ENGINEER AND THE OWNER FROM ANY ADDED COST.
- ALL WORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ARCHITECTURAL DESIGN AND PROPER OPERATION AND SERVICE OF EQUIPMENT.
- ALL TEMPERATURE AND HUMIDITY SET POINTS SHALL BE FIXED WITHIN THE CAPTIVEAIRE CASLINK CONTROL SYSTEM. NO ADJUSTMENT SHALL BE AT THE SPACE SENSORS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL GRILLES, DIFFUSERS, DUCTS, ETC. WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE MILLWORK, CABINETRY THAT EXTENDS TO THE CEILING IN TOILET ROOMS, ELECTRICAL CONTRACTOR, LIGHTING.
- CONTRACTOR SHALL VERIFY A PLASMA TUBE HAS BEEN INSTALLED IN EACH ROOFTOP UNIT AS PER SCHEDULE ON SHEET M2.0 AND DETAIL ON SHEET M3.0. ALL VENTILATION CALCULATIONS CAN BE FOUND ON SHEET M4.0. PLASMA TUBE SHALL BE INSTALLED BY CAPTIVEAIRE SERVICE TECH DURING RTU STARTUP.
- CONTRACTOR SHALL ENSURE THAT ALL BALANCING DAMPERS ARE INSTALLED IN AN ACCESSIBLE LOCATION. WHERE DAMPERS CAN BE ACCESSIBLE THROUGH LAY-IN/ACT CEILING AT THE BRANCH LOCATIONS AS SHOWN IN DETAIL ON SHEET M3.0 THEY SHALL BE INSTALLED IN THE DUCTWORK. IF WHEN DAMPERS ARE LOCATED IN THE DUCTWORK THEY ARE INACCESSIBLE FOR BALANCING THEN THE AIR TERMINAL SHALL BE PROVIDED WITH DAMPER TO BE ADJUSTED AT THE FACE OF GRILLE. (SEE SPECIFICATIONS ON MP1.0). KEYED NOTE 9 IS USED ON PLAN TO INDICATE KNOWN LOCATIONS WHERE DAMPERS ARE LOCATED IN AIR TERMINAL. FINAL COORDINATION SHALL BE BY CONTRACTOR.



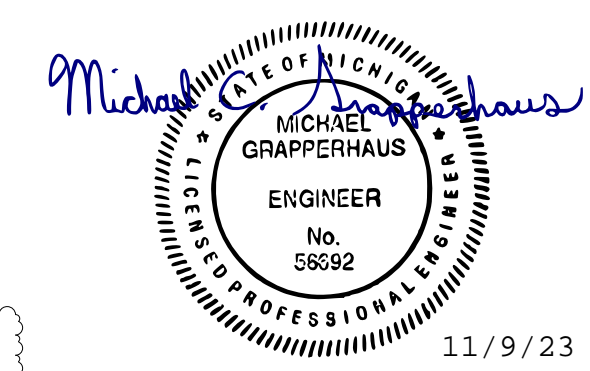
2 TOWER SECTION
SCALE: NOT TO SCALE

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
3300 WINNYP HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640
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Date: 11/09/23
CONSTR. DOC. & REVISIONS
Description
No. 1
CODE RESPONSE



Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

Drawn/Checked: BAM / MCG
Project Number: 2202640
Bid Date: --/--/--
Permit Date: 7/10/23
For Construction: --/--/--

MECHANICAL FLOOR PLAN
M1.0

2018 IECC POST CONSTRUCTION REQUIREMENTS

PER THE REQUIREMENTS OF THE 2018 INTERNATIONAL ENERGY CODE, THE GENERAL CONTRACTOR SHALL OBTAIN & PROVIDE THE FOLLOWING MECHANICAL RELATED ITEMS LISTED BELOW. CONTRACTOR SHALL PROVIDE A COPY TO THE TENANT AND WRITTEN CONFIRMATION TO THE PROFESSIONAL OF RECORD PROVING SAID INFORMATION HAS BEEN PROVIDED.

- HVAC O&M DOCUMENTS FOR ALL MECHANICAL EQUIPMENT AND SYSTEMS PROVIDED TO THE TENANT BY THE MECHANICAL CONTRACTOR WITH 90 DAYS OF SYSTEM ACCEPTANCE.
- A COMMISSIONING PLAN SHALL BE DEVELOPED BY APPROVED AGENCY.
- HVAC EQUIPMENT AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE PROPER OPERATION.
- A PRELIMINARY COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY APPROVED AGENCY.
- HVAC AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- AN AIR BALANCING REPORT SHALL BE PROVIDED FOR HVAC SYSTEMS.
- A FINAL COMMISSIONING REPORT SHALL BE PROVIDED TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.
- ALL HVAC CONTROL SYSTEMS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS.

CAPTIVEAIRE CONTACT INFORMATION:
 BRANDEN GOAD
 (629) 401-7547
 BRANDEN.GOAD@CAPTIVEAIRE.COM

MARK	MANUFACTURER	MODEL	AREA SERVED	OUTSIDE AIR (CFM)	SUPPLY FAN		TONS	ESP (IN-WC)	MOTOR HP	AMB DB (°F)	COOLING COIL		GAS HEATING		ELECTRICAL					WEIGHT (LBS)	ACCESSORIES	NOTES	
					COOLING SUPPLY (CFM)	HEATING SUPPLY (CFM)					NET TOTAL (MBH)	NET SENSIBLE (MBH)	INPUT (MBH)	OUTPUT (MBH)	IEER	VOLTS	PHASE	FREQ (HZ)	MCA				MOCP
RTU-1	CAPTIVEAIRE	CASRTU3-I.250-24-12.5T-DOAS	SEE VAV SCHEDULE	1050	4600	3800	12.5	1.75	7.5	90.3	140.90	114.70	216	175	21.3	208	3	60	74.8	90	2574	1-15	1-13
RTU-2	CAPTIVEAIRE	CASRTU3-I.250-24-12.5T-DOAS	SEE VAV SCHEDULE	1130	4400	3500	12.5	1.75	7.5	90.3	143.20	115.60	211.8	190	21.3	208	3	60	74.8	90	2574	1-15	1-13

NOTES:

- CAPTIVEAIRE WARRANTY: 5 YEAR PARTS AND LABOR (ALTERNATE EXTENDABLE TO 10 YEARS PARTS WARRANTY - TO BE SELECTED BY OWNER IF DESIRED)
- SEE SPECIFICATION FOR ADDITIONAL REQUIREMENTS
- PROVIDE PERMANENT (SUN-RESISTANT) ENGRAVED BLACK LABEL WITH WHITE LETTERS SHOWING UNIT NUMBER AND ROOM NUMBERS SERVED
- COORDINATE WITH ELECTRICAL CONTRACTOR
- ALL UNITS TO BE FURNISHED WITH HIGH-PRESSURE AND LOW-PRESSURE SWITCHES
- ALL UNITS SHALL HAVE FACTORY-FURNISHED AND INSTALLED SMOKE DETECTOR IN RETURN AIR SECTION.
- FURNISH WITH TWO SETS OF BOTH 2" MERV 8 AND 2" MERV 13 FILTERS
- ALL UNITS SHALL BE PROVIDED WITH R-410A REFRIGERANT.
- ALL UNITS SHALL BE SUITABLE FOR OPERATION WITH CASLINK CONTROLS AND MONITORING SYSTEM.
- ALL UNITS TO BE FURNISHED WITH AS MULTI-ZONE VARIABLE AIR VOLUME UNITS.
- ALL UNITS TO BE FURNISHED WITH SINGLE CIRCUIT INVERTER DUTY COMPRESSOR
- CAPTIVEAIRE TO PROVIDE ALTERNATE PRICING TO PROVIDE HAIL GAURDS. OWNER TO MAKE FINAL DECISION PRIOR TO ORDERING EQUIPMENT.
- MANUFACTURER REPRESENTATIVE TO PERFORM UNIT STARTUP AND FINALIZE SYSTEM CONTROLS AND PROVIDE TRAINING OF THE CONTROLS SYSTEM TO THE OWNER.
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.

ACCESSORIES (FACTORY-INSTALLED IF AVAILABLE, OR SHIPPED FOR FIELD INSTALLATION):

- 14" TALL STANDARD FACTORY INSULATED ROOF CURB
- HINGED AND REMOVABLE ACCESS PANELS
- NON-FUSED DISCONNECT SWITCH
- GFCI SERVICE OUTLET (FIELD WIRED)
- ECONOMIZER WITH WITH DIFFERENTIAL ENTHALPY CONTROL
- FACTORY INSTALLED HUMIDITY CONTROL PACKAGE - MODULATING HOT GAS REHEAT
- CLOGGED FILTER SWITCH
- CRANKCASE HEATER
- BAROMETRIC RELIEF DAMPER
- PROVIDE EXTRA SET OF 2" MERV 8 AND 2" MERV 13 FILTERS FOR CONTRACTOR TO INSTALL BEFORE TURNOVER
- FREESTAT
- DISCHARGE DEWPOINT CONTROL
- TOTAL CFM MONITORING FOR RTU
- ECM CONDENSING FANS
- ROOF CURB MOUNTED SCREENS. LOCATE SCREENS SO THAT THERE IS AN OPENING ALONG THE SHORT END OF THE RTU, FACING SOUTH. SEE ARCHITECTURAL ROOF PLAN ON SHEET A1.3 FOR MORE INFORMATION.

AIR PURIFICATION SCHEDULE						
SYMBOL	MANUFACTURER	MODEL	VOLTAGE	WATTS	PRESSURE DROP	MILLION ION DENSITY
GPS 1-2	GLOBAL PLASMA SOLUTIONS	GPS-FC48-AC	24-240 (AC)	10	0.05" W.G.	200 MILLION

NOTES:

- ONE DEVICE TO BE FIELD INSTALLED IN RTU-1 AND RTU-2.
- NO APPROVED EQUALS
- MOUNT BI-POLAR ION GENERATOR PER DETAIL ON SHEET M3.0
- POWER SHALL BE PROVIDED FROM BLOWER MOTOR
- PROVIDE WITH INTEGRAL SELF CLEANING SYSTEM
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.
- EQUIPMENT SHALL BE INSTALLED ON SITE BY THE CAPTIVEAIRE TECH DURING RTU STARTUP
- ORDERS SHALL BE PLACED THROUGH ACCOUNT MANAGER
 GLOBAL PLASMA SOLUTIONS ACCOUNT MANAGER: TODD E. BEELER
 PHONE: 865-250-1792 - EMAIL: TODD.E.BEELER@GLOBALPLASMASOLUTIONS.COM

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	MODEL	DESCRIPTION	CFM	ESP (IN. WG.)	DRIVE	ELECTRICAL DATA			AREA SERVED	REMARKS
							HP	VOLTAGE	PHASE		
EF-1	CAPTIVEAIRE	DR12HFA	ROOF MOUNTED	350	0.500	DIRECT	1/4	115 V	1	WARMING KITCHEN	CONTROLLED BY MANUAL TIMER SWITCH (BY EC) IN KITCHEN
EF-2	CAPTIVEAIRE	DR12HFA	ROOF MOUNTED	480	0.500	DIRECT	1/4	115 V	1	TOILET	CONTROLLED BY TIMELOCK - CONSTANT ON DURING OCCUPIED HOURS
EF-3	CAPTIVEAIRE	DR12HFA	ROOF MOUNTED	430	0.500	DIRECT	1/4	115 V	1	TOILET / MEDIA	CONTROLLED BY TIMELOCK - CONSTANT ON DURING OCCUPIED HOURS
EF-4	CAPTIVEAIRE	DR12HFA	ROOF MOUNTED	450	0.500	DIRECT	1/4	115 V	1	TOILET/LAUNDRY	CONTROLLED BY TIMELOCK - CONSTANT ON DURING OCCUPIED HOURS

NOTES:

- ALL FANS SHALL HAVE A DISCONNECT SWITCH
- ALL FANS SHALL BE PROVIDED WITH BIRDSCREEN AND BACKDRAFT DAMPER
- ALL FANS SHALL BE PROVIDED WITH 14" PRE-FAB CURB
- ALL FANS SHALL BE OFF DURING UNOCCUPIED HOURS (NIGHT / WEEKEND SETBACK)
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.

BUILDING AIR BALANCE SCHEDULE			
CLASSIFICATION	UNIT	CFM	FACE SIZE
OUTSIDE AIR	RTU - 1	1050	24"x24"
	RTU - 2	1130	24"x24"
	TOTAL	2180	
EXHAUST AIR	EF - 1	350	12"x12"
	EF - 2	480	24"x24"
	EF - 3	430	12"x12"
	EF - 4	450	24"x24"
	TOTAL	1710	

BUILDING FINAL PRESSURE:
 WITH KITCHEN EXHAUST FAN ON: POSITIVE 470 CFM
 WITH KITCHEN EXHAUST FAN OFF: POSITIVE 820 CFM

AIR TERMINAL SCHEDULE							
MARK	FUNCTION	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE		
A	SUPPLY AIR	PRICE	AMD	SUPPLY AIR DIFFUSER, RECTANGULAR FULL LOUVERED FACE, 18X18 NECK WITH SQUARE TO ROUND NECK, LAY-IN. WHITE FINISH. SEE PLANS FOR ROUND NECK SIZE	24"x24"		
B	SUPPLY AIR	PRICE	AMD	SUPPLY AIR DIFFUSER, RECTANGULAR FULL LOUVERED FACE, 18X18 NECK WITH SQUARE TO ROUND NECK, SURFACE MOUNT. WHITE FINISH. SEE PLANS FOR ROUND NECK SIZE	24"x24"		
C	SUPPLY AIR	PRICE	AMD	SUPPLY AIR DIFFUSER, RECTANGULAR FULL LOUVERED FACE, 9X9 NECK WITH SQUARE TO ROUND NECK, SURFACE MOUNT. WHITE FINISH. SEE PLANS FOR ROUND NECK SIZE	12"x12"		
D	RETURN AIR	PRICE	630	RETURN AIR GRILLE, RECTANGULAR FACE, RECTANGULAR NECK, LAY-IN MOUNT. WHITE FINISH. 22X22 NECK SIZE	24"x24"		
E	RETURN AIR	PRICE	630	RETURN AIR GRILLE, RECTANGULAR FACE, RECTANGULAR NECK, SURFACE MOUNT. WHITE FINISH. 22X22 NECK SIZE	24"x24"		
F	RETURN AIR	PRICE	630	RETURN AIR GRILLE, RECTANGULAR FACE, RECTANGULAR NECK, SURFACE MOUNT. WHITE FINISH. 10X10 NECK SIZE	12"x12"		
G	EXHAUST AIR	PRICE	630	EXHAUST AIR GRILLE, RECTANGULAR FACE, RECTANGULAR NECK, LAY-IN MOUNT. WHITE FINISH. 22X22 NECK SIZE	24"x24"		
H	EXHAUST AIR	PRICE	630	EXHAUST AIR GRILLE, RECTANGULAR FACE, RECTANGULAR NECK, SURFACE MOUNT. WHITE FINISH. 10X10 NECK SIZE	12"x12"		

NOTES:

- ALL AIR DEVICES SHALL BE ALUMINUM.
- REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING.
- REFER TO MECHANICAL PLANS FOR NECK SIZE.
- COORDINATE MOUNTING FRAMES AND LOCATION WITH ARCHITECTURAL DRAWING A3.0. SURFACE MOUNT FRAMES SHALL BE TYPE 1- DRYWALL FRAMES.
- ALL AIR DEVICES SHALL BE PROVIDED WITH FULL LOUVERED FACE AND NO PANEL FACE.
- ALL SUPPLY AIR DIFFUSERS 4-WAY THROW U.N.O.
- WHERE 2 OR 3-WAY THROW IS CALLED FOR ON PLAN INCLUDE DIRECTIONAL BAFFLE IN NECK OF DIFFUSER TO DIVERT AIR FLOW.
- SOME AIR DEVICES SHALL BE PROVIDED WITH BALANCING DAMPERS. SEE PLAN FOR LOCATION. SEE SPECIFICATIONS ON MPT.0. FINAL COORDINATION OF WHICH AIR TERMINALS REQUIRE DAMPERS SHALL BE VERIFIED IN FIELD PRIOR TO ORDERING.
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.

ELECTRIC UNIT HEATER SCHEDULE									
MARK	AREA SERVED	MANUFACTURER	MODEL	INPUT (KW)	BTU/HR OUTPUT	POWER			
						AMPS	VOLTAGE	PHASE	FREQ (HZ)
EH-1	RISER ROOM	Q-MARK	AWH-4508	4.8	16378	23.1	208	1	60

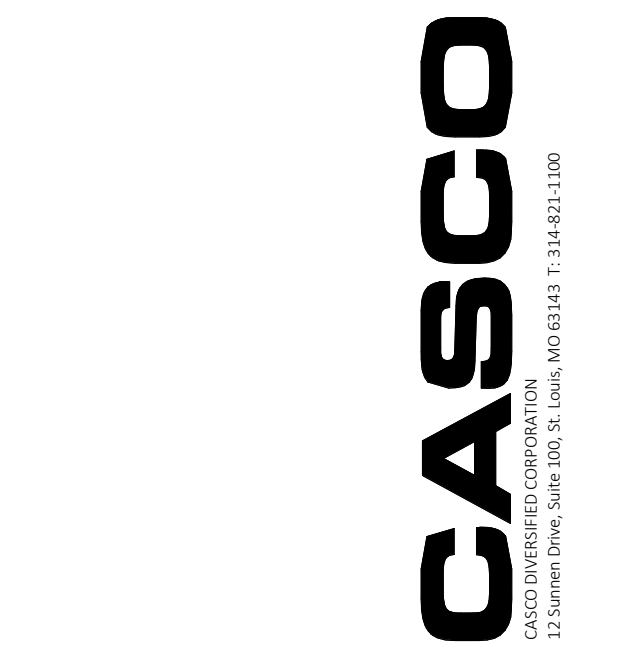
NOTES:

- UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH
- UNIT SHALL BE PROVIDED WITH INTEGRAL THERMOSTAT
- UNIT SHALL BE PROVIDED WITH BACK BOX FOR RECESSED MOUNT
- UNIT SHALL BE PROVIDED WITH FRONT PANEL / GRILLE
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.

VAV WITH ELECTRIC HEAT SCHEDULE														
MARK	AREA SERVED	MANUFACTURER	MODEL	INLET DIAMETER (IN.)	AIR FLOW (CFM)			ELECTRIC HEAT						
					MIN.	REHEAT	MAX.	FREQ. (HZ)	PHASE	VOLTAGE	MCA	MOCP	HEAT (KW)	CONTROL
VAV 1-1	STAFF, RESOURCE, STORAGE	PRICE	SDV	6	115	185	230	60	3	208	8.70	15.0	2.3	SCR
VAV 1-2	CLASSROOM A1	PRICE	SDV	8	200	320	400	60	3	208	15.50	20.0	4.1	SCR
VAV 1-3	CLASSROOM A2	PRICE	SDV	8	200	320	400	60	3	208	15.50	20.0	4.1	SCR
VAV 1-4	KITCHEN, LAUNDRY	PRICE	SDV	10	310	495	620	60	3	208	23.80	25.0	6.3	SCR
VAV 1-5	ENTRY, OFFICE, CONFERENCE	PRICE	SDV	8	205	330	410	60	3	208	15.90	20.0	4.2	SCR
VAV 1-6	CLASSROOM B1	PRICE	SDV	8	250	400	500	60	3	208	19.30	20.0	5.1	SCR
VAV 1-7	CLASSROOM B2	PRICE	SDV	8	250	400	500	60	3	208	19.30	20.0	5.1	SCR
VAV 1-8	CLASSROOM EP1	PRICE	SDV	10	295	470	590	60	3	208	22.30	25.0	5.9	SCR
VAV 1-9	CLASSROOM EP2	PRICE	SDV	8	250	400	500	60	3	208	19.30	20.0	5.1	SCR
VAV 1-10	CLASSROOM PATHWAYS	PRICE	SDV	8	225	360	450	60	3	208	17.40	20.0	4.6	SCR
VAV 1-11	ENTRY TOWER	PRICE	SDV	6	0	200	200	60	3	208	10.60	15.0	2.8	SCR
VAV 2-1	CLASSROOM C1	PRICE	SDV	10	340	540	680	60	3	208	25.70	30.0	6.8	SCR
VAV 2-2	CLASSROOM C2	PRICE	SDV	10	340	540	680	60	3	208	25.70	30.0	6.8	SCR
VAV 2-3	CLASSROOM D1	PRICE	SDV	10	365	580	730	60	3	208	27.60	30.0	7.3	SCR
VAV 2-4	CLASSROOM D2	PRICE	SDV	12	415	660	830	60	3	208	31.80	35.0	8.4	SCR
VAV 2-5	CLASSROOM EXP	PRICE	SDV	14	740	1180	1480	60	3	208	56.40	60.0	14.9	SCR

NOTES:

- ALL SHALL BE PROVIDED WITH A FACTORY MOUNTED DISCONNECT SWITCH
- ALL SHALL BE PROVIDED WITH A TRANSFORMER
- ALL SHALL BE PROVIDED WITH A DISCHARGE AIR TEMPERATURE SENSOR
- ALL SHALL BE PROVIDED WITH SCR CONTROL
- ALL SIZED BASED ON A TEMPERATURE RISE OF 40 DEG F, EXCEPT VAV 1-11 WHICH IS SIZED FOR A MINIMUM LEAVING AIR TEMPERATURE OFF 100 DEG F
- ALL SHALL BE INDIVIDUALLY CONTROLLED BY PROGRAMMABLE THERMOSTAT LOCATED WITHIN AREA SERVED.
- VAV 1-11 IS HEATING ONLY
- GC TO PURCHASE EQUIPMENT THROUGH CAPTIVEAIRE NATIONAL ACCOUNT. REFER TO CAPTIVEAIRE CONTACT INFORMATION.



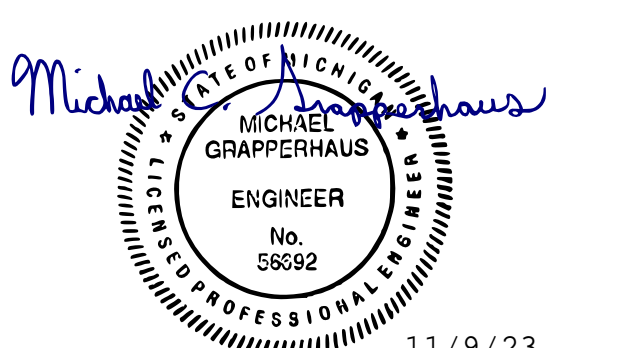
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 43455 W. 10 MILE ROAD
 NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
 5300 WINDY HILL ROAD, SUITE 1200 E
 ATLANTA, GEORGIA 30329-3640

Date
 11/09/23

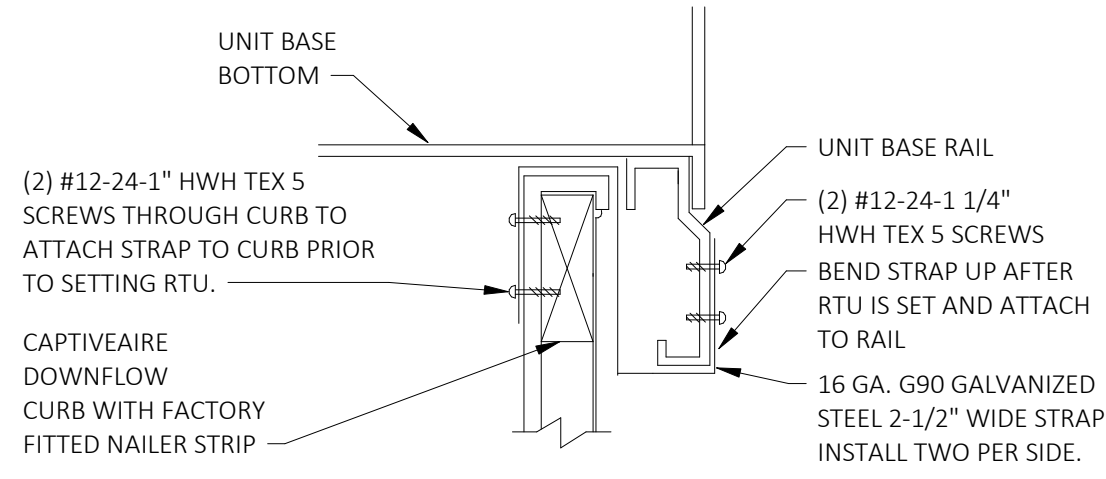
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 Description
 No. 1
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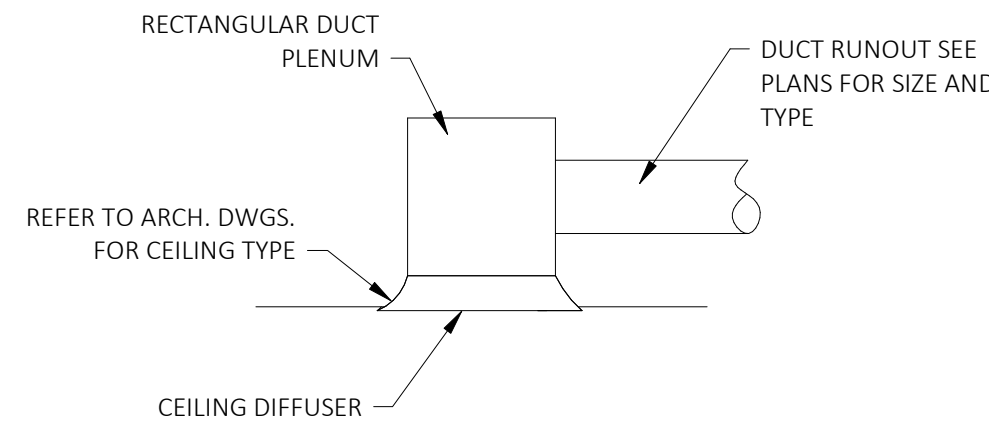
Professional of Record:
 Michael C. Grapperhaus
 LICENSE NO: 56692
 EXP. DATE: 9/30/23

Drawn/Checked BAM / MCG
 Project Number 2202640
 Bid Date --/--
 Permit Date 7/10/23
 For Construction --/--

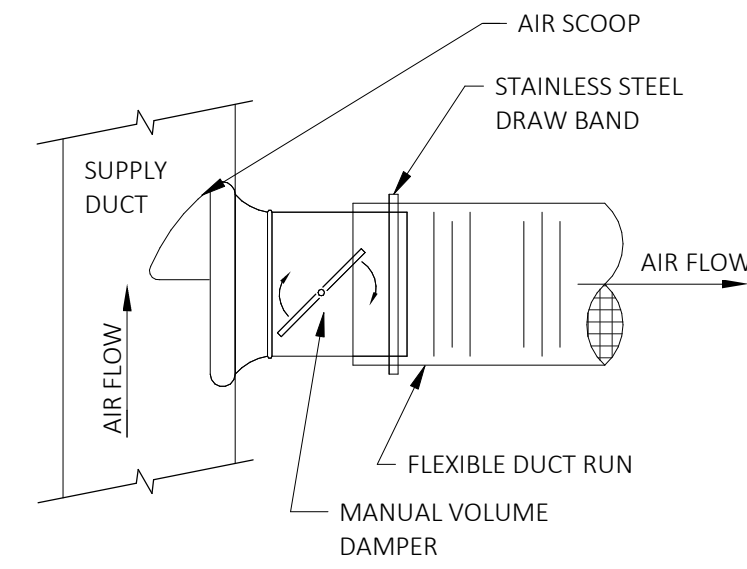
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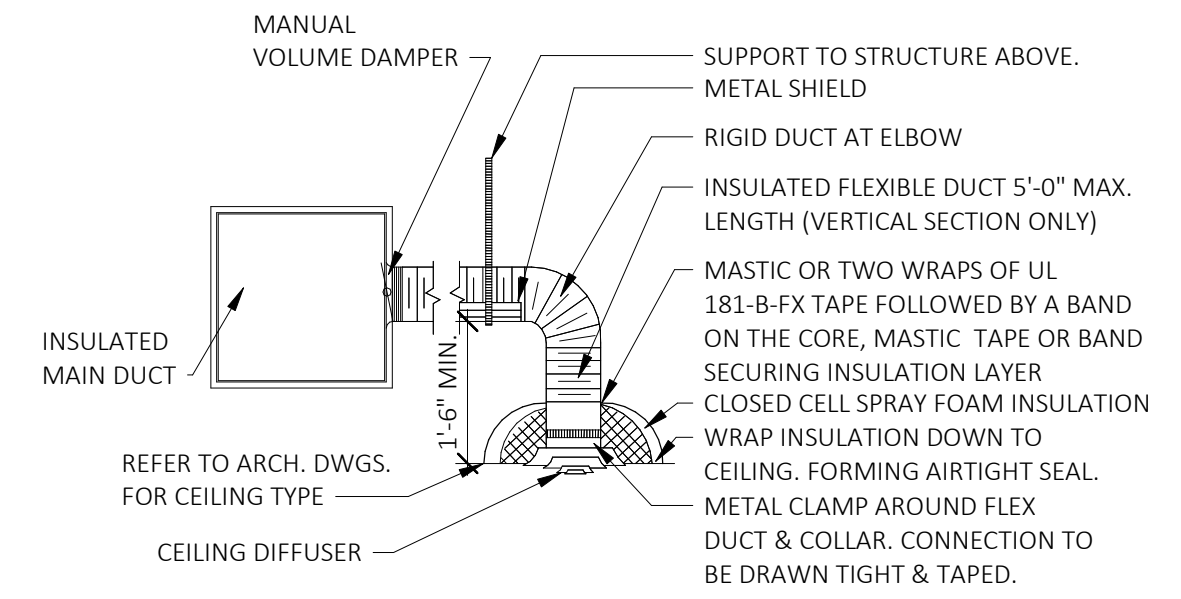
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TYPICAL RTU CURB DETAIL
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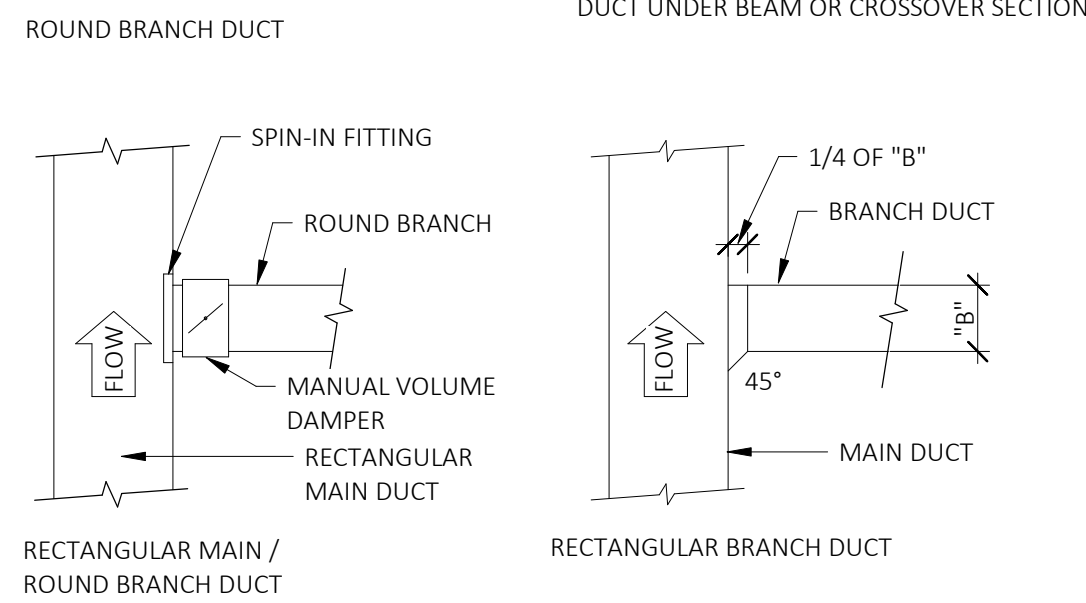
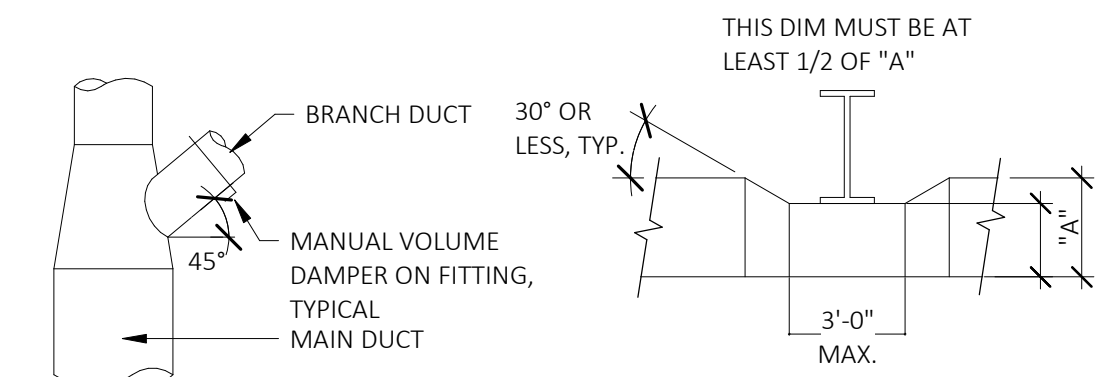
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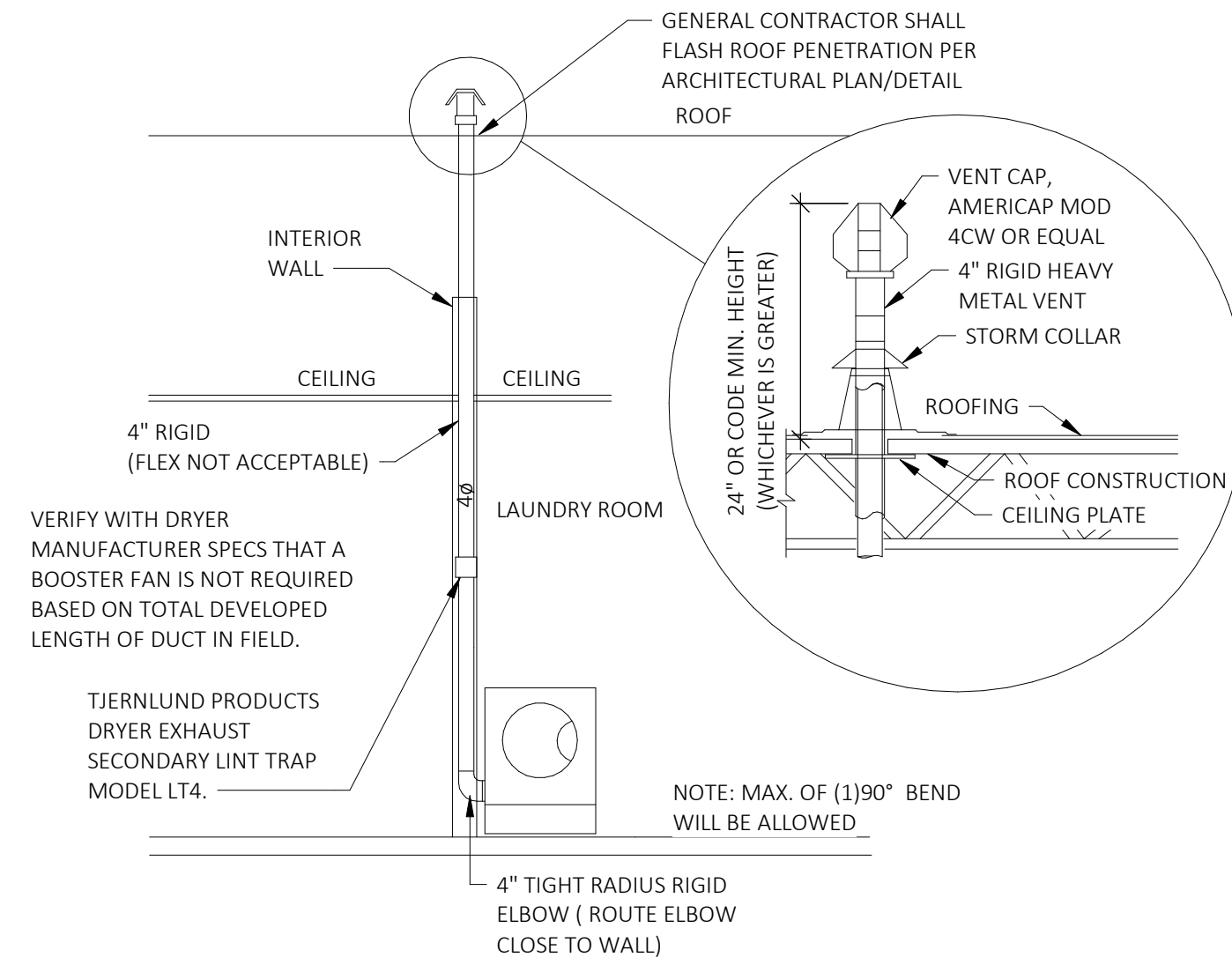
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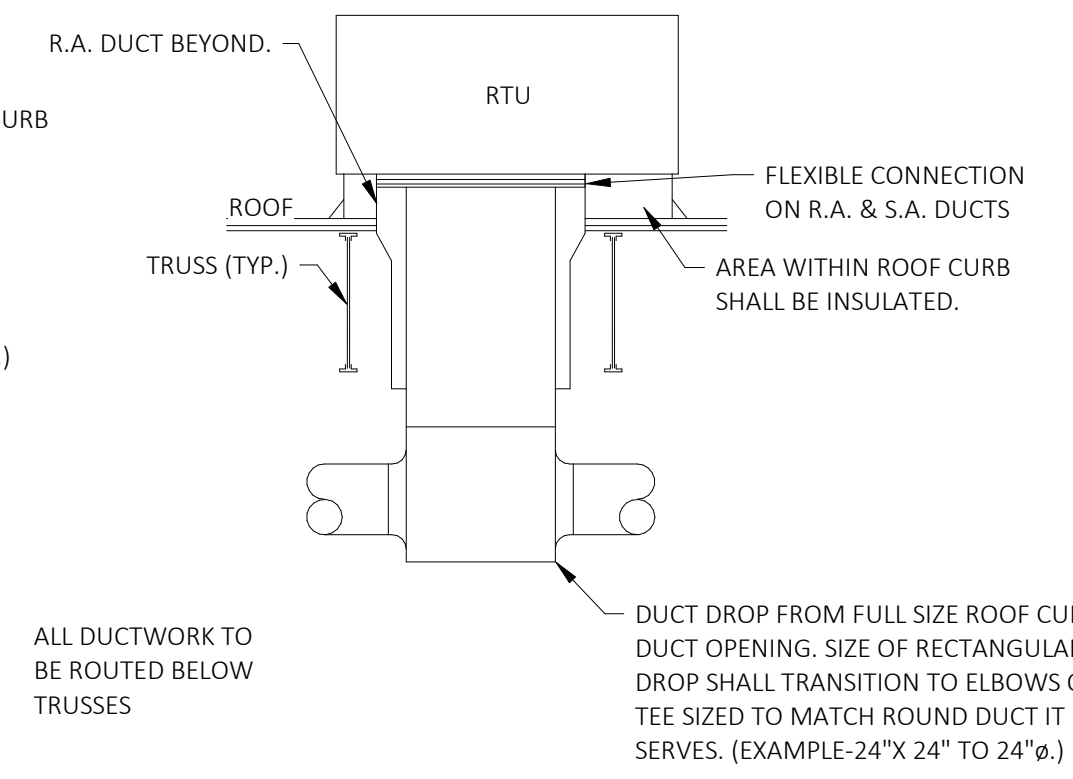
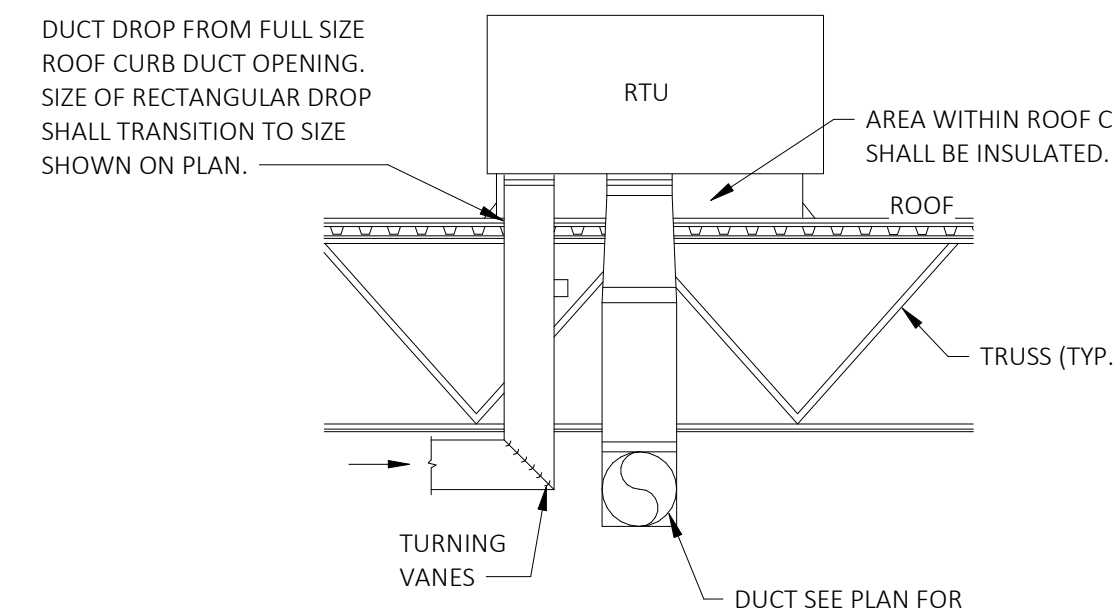
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CEILING DIFFUSER DETAIL
SCALE: NOT TO SCALE



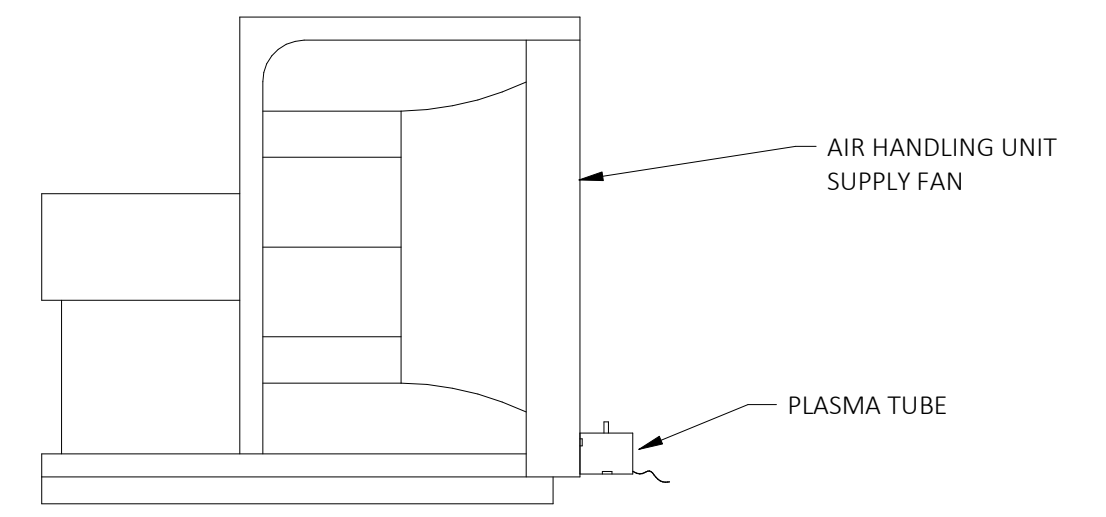
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DUCT CONNECTION DETAIL
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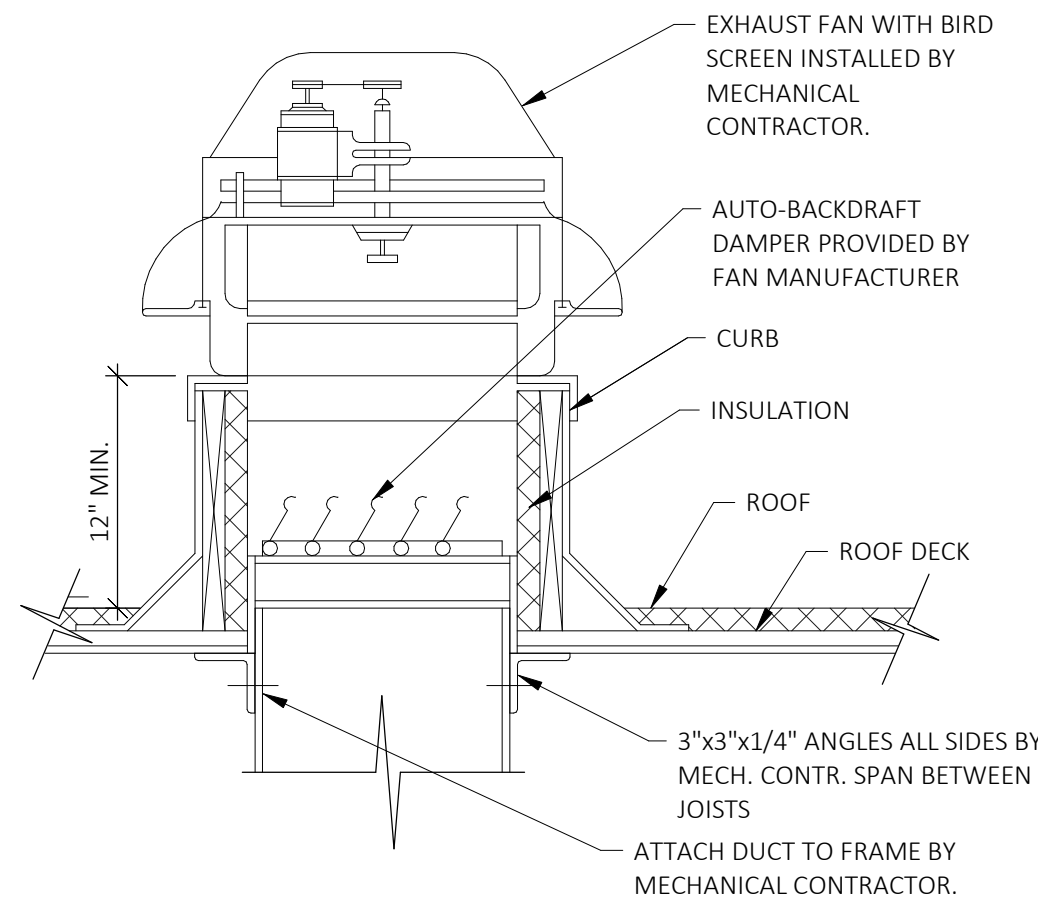
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DRYER VENT ROOF PENETRATION DETAIL
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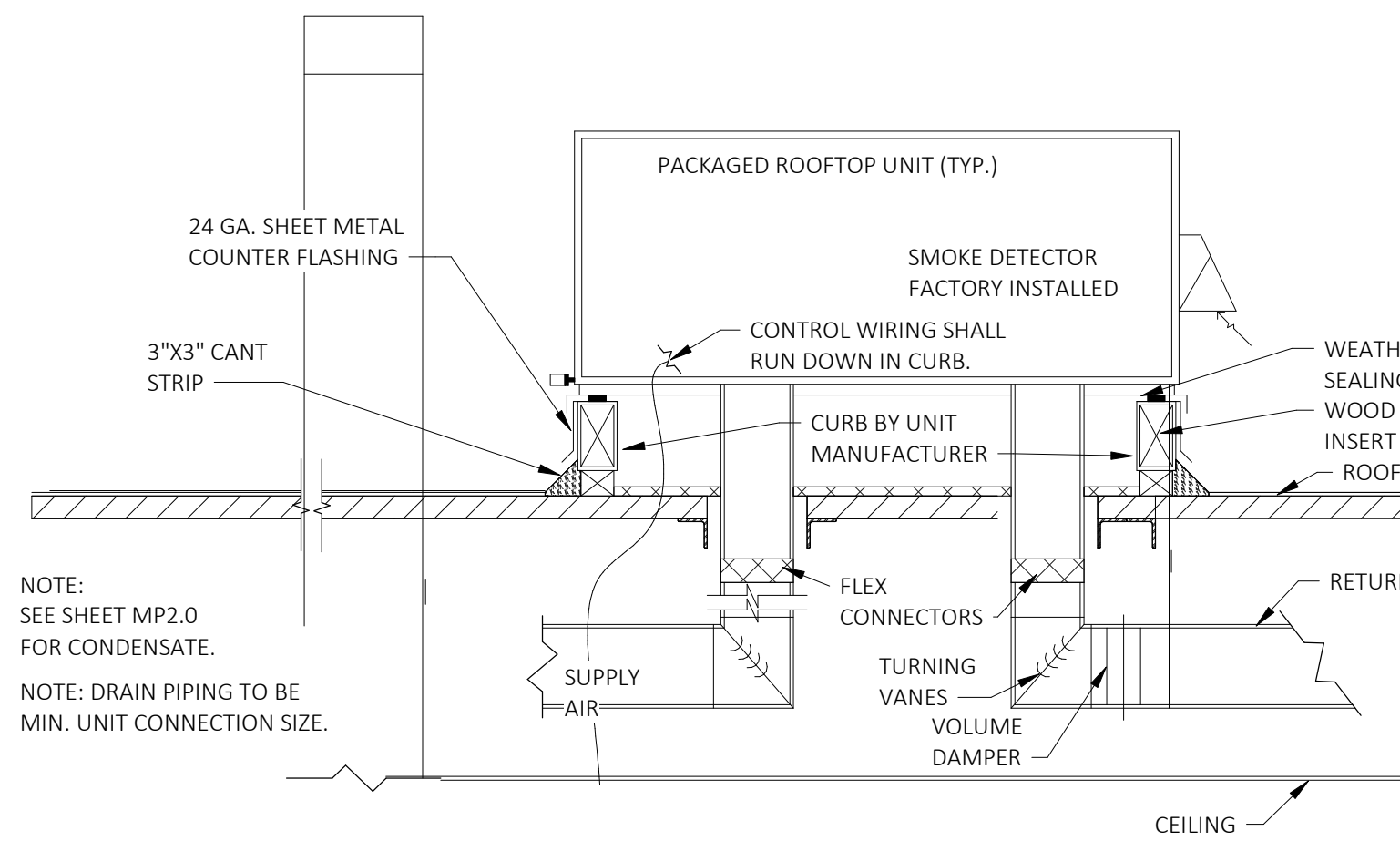
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RTU DUCTWORK DETAILS
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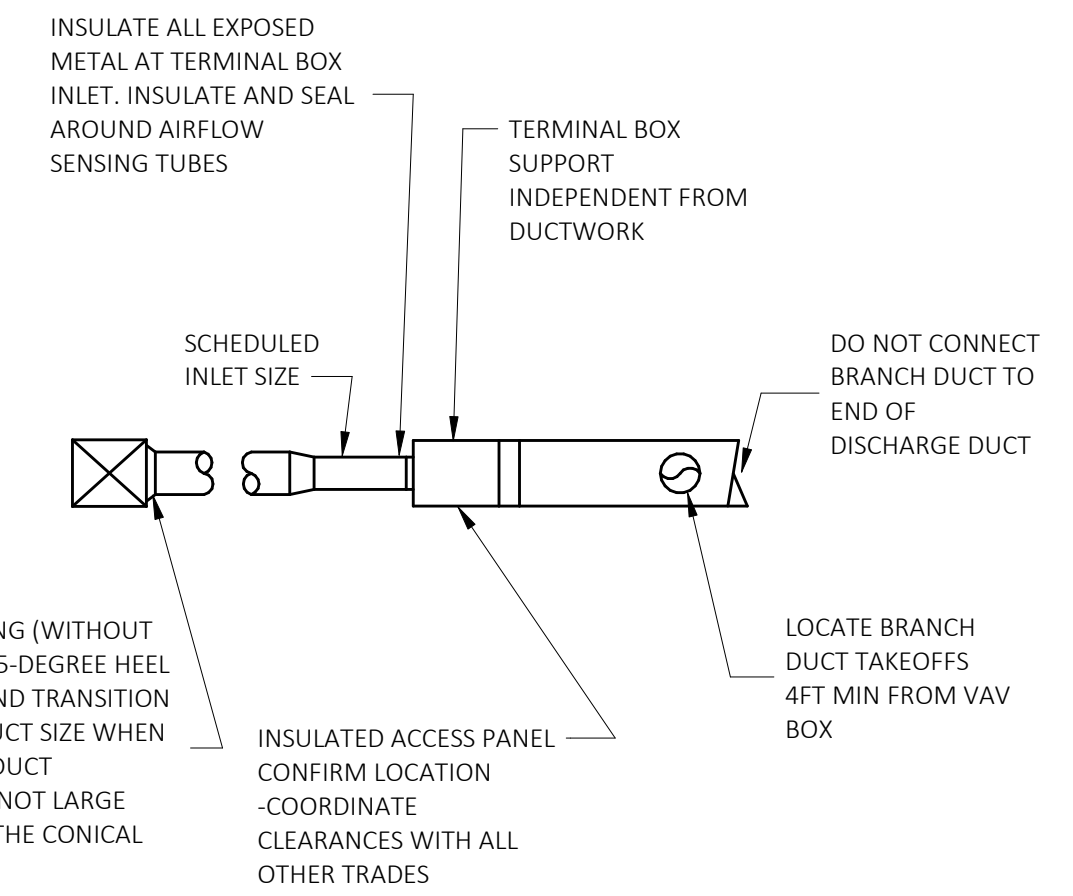
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GPS-FC48-AC MOUNTING DETAIL
SCALE: NOT TO SCALE



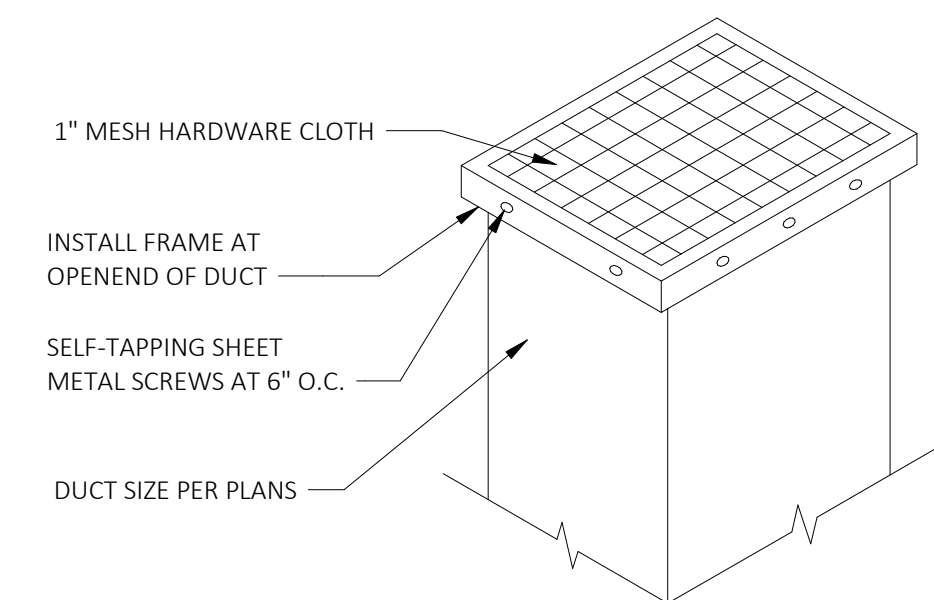
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M3.0
ROOF MOUNTED DOWNFLOW EXHAUST FAN
SCALE: NOT TO SCALE



10
M3.0
ROOF UNIT MOUNTING DETAIL
SCALE: NOT TO SCALE



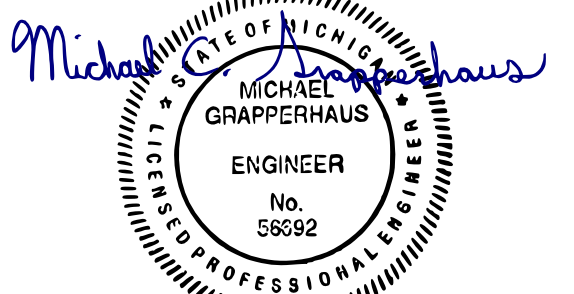
11
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M3.0 VAV BOX INSTALLATION DETAIL
SCALE: NOT TO SCALE



12
M3.0
REMOVABLE METAL SCREEN
SCALE: NOT TO SCALE



Date	11/09/23
CONSTR. DOC. & REVISIONS	Description
No.	1
CODE RESPONSE	



Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

Drawn/Checked	BAM / MCG
Project Number	2202640
Bid Date	--/--
Permit Date	7/10/23
For Construction	--/--

Set Points

TEMPERATURE SETPOINTS:

RTU COOLING MODE:	>60.0 DEG F INTAKE MAT
RTU COOLING LAT:	50.0 DEG F DRY BULB
SPACE COOLING OCCUPIED:	72.0 DEG F DRY BULB
SPACE COOLING UNOCCUPIED:	74.0 DEG F DRY BULB

RTU HEATING MODE:	<56.0 DEG F INTAKE MAT
RTU HEATING LAT:	62.0 DEG F DRY BULB
VAV HEATING LAT:	95.0 DEG F DRY BULB
SPACE HEATING OCCUPIED:	70.0 DEG F DRY BULB
SPACE HEATING UNOCCUPIED:	64.0 DEG F DRY BULB

DEHUMIDIFICATION SETPOINTS:

RTU HOT GAS REHEAT:	58.0 DEG F DEW POINT
RTU REHEAT DISCHARGE:	56.0 DEG F DRY BULB
VAV DAMPER MODULATION:	55% RELATIVE HUMIDITY

DUCT STATIC PRESSURE SETPOINTS:

MAINTAIN +1" ESP INSIDE DUCT RELATIVE TO SPACE

MODES OF OPERATIONS

OCCUPIED MODE:

RTU-1, 2 will be commanded on and operating in communication with VAV boxes and local space sensors. See Sequence of Operation for more detailed information.

EF-1 turned on by manual timer switch in kitchen only (switch by EC).

EF-2, 3, 4 will be commanded on via timeclock (by EC).

Hot water recirculation pump will be commanded on, via timeclock (by EC).

UNOCCUPIED MODE

RTU-1, 2 will be commanded on in 100% recirculating, auto blower mode in communication with VAV boxes and local space sensors. See Sequence of Operation for more detailed information.

EF-2, 3, 4 will be commanded off via interlock with RTU-1, 2.

Building Lighting (Wall packs, flag pole, sign light) will be commanded on/off in accordance with AHJ / owner requirements. Typical operation: a photocell (by EC) will be used to command lights on at dusk and off at dawn. Where required, CASLink will be used to command lights on/off.

Site Lighting (Pole Lights) will be commanded on/off in accordance with AHJ / owner requirements. Typical operation: a photocell (by EC) will be used to command lights on at dusk and off at dawn. Where required, CASLink will be used to command lights on/off.

Hot water recirculation pump will be commanded off.

SEQUENCE OF OPERATIONS

VAV SYSTEM

Sequence of Operations

ALL VAV BOXES SCHEDULED

Occupancy Mode:

The occupancy mode will be communicated or hardwired to the controller via a programmable schedule. Valid occupancy modes for the unit will be:

Occupied:

Normal operating mode for occupied spaces or daytime operation. When the unit is in the occupied mode the VAV will maintain the space temperature at the active occupied heating or cooling setpoint. Applicable ventilation and airflow setpoints will be enforced. The occupied mode will be the default mode of the VAV.

Unoccupied:

Normal operating mode for unoccupied spaces or nighttime operation. When the unit is in unoccupied mode the VAV controller will maintain the space temperature at the stored unoccupied heating or cooling setpoint. When the space temperature is within the setpoint deadband the active unoccupied setpoint the VAV will modulate fully closed, and the RTU fan will turn off.

Heat/Cool Mode:

The Heat/Cool mode will be set by the VAV controller. In standalone or auto mode the VAV controller will compare the primary air temperature with the configured auto changeover setpoint to determine if the air is "hot" or "cold". Heating mode implies the primary air temperature is hot. Cooling mode implies the primary air temperature is cold.

Heat/Cool Setpoint:

The space temperature setpoint will be determined either by programmed setpoint. Setpoints can be manually set on each VAV thermostat.

Cooling Mode:

When the unit is in cooling mode, the VAV controller will maintain the space temperature at the active cooling setpoint by simultaneously modulating both the VAV damper (between the active cooling minimum and maximum airflow setpoints) and the RTU fan speed (between the minimum and maximum RTU fan speed airflow setpoints). Based on the VAV controller occupancy mode, the active cooling setpoint will be one of the following:

Setpoint

Occupied Cooling Setpoint	72.0 deg. F
Unoccupied Cooling Setpoint	74.0 deg. F
Occupied Min Cooling Airflow Setpoint	See VAV Schedule
Occupied Max Cooling Airflow Setpoint	See VAV Schedule

The VAV controller will use the measured space temperature and the active cooling setpoint to determine the requested cooling capacity of the unit. The outputs will be controlled based on the unit configuration and the requested cooling capacity.

Heating Mode:

When the unit is in heating mode, the VAV controller will maintain the space temperature at the active heating setpoint by simultaneously modulating both the VAV damper (between the active heating minimum and maximum airflow setpoints) and the RTU fan speed (between the minimum and maximum RTU fan speed airflow setpoints). Based on the VAV controller occupancy mode, the active heating setpoint will be one of the following:

Setpoint

Occupied Heating Setpoint	70.0 deg. F
Unoccupied Heating Setpoint	64.0 deg. F
Occupied Min Heating Airflow Setpoint	See VAV Schedule
Occupied Max Heating Airflow Setpoint	See VAV Schedule

Electric heater shall be modulated to maintain space heating setpoint.

Dehumidification mode:

During occupied mode VAV damper shall modulate open when space relative humidity (%RH) is above setpoint and modulate based on space dry bulb temperature when space relative humidity (%RH) is below setpoint.

Sequence of Operations

RTU-1,2

Occupied Mode:

During occupied periods, the supply fan will run continuously and the outside air damper will open to maintain minimum ventilation requirements. The unit controller will control the supply fan speed to maintain the current duct static pressure setpoint (adj.). The DX cooling and gas heat will modulate (based on intake mixed air temperature (MAT) setpoints (adj.)) to maintain the current discharge air temperature setpoint. If economizing is enabled the outside air damper will modulate to maintain the current discharge air temperature setpoint.

Unoccupied Mode:

When the space temperature is below the unoccupied heating setpoint of 64.0 deg. F (adj.) the supply fan will start, the outside air damper will remain closed and the gas heat will be enabled. When the space temperature rises above the unoccupied heating setpoint of 64.0 deg. F (adj.) the supply fan will stop and the gas heat will be disabled. When the space temperature is above the unoccupied cooling setpoint of 74.0 deg. F (adj.) the supply fan will start, the outside air damper will open if economizing is enabled and remain closed if economizing is disabled and the DX cooling will be enabled. When the space temperature falls below the unoccupied cooling setpoint of 74.0 deg. F (adj.) the supply fan will stop, the DX cooling will be disabled and the outside air damper will close.

Occupied Override:

When an occupied bypass request is received from CASLink remotely or onboard the HMI inside of the controls vestibule, the unit will transition from its current occupancy mode to occupied override mode and the unit will maintain the space temperature to the occupied bypass request setpoints (adj.) until 1 hour (adj.) has passed.

Cooling Mode:

The unit controller shall use the intake mixed air temperature and humidity sensor to maintain scheduled discharge air temperature. Discharge air setpoint shall be maintained by modulating the economizer or the DX cooling as required to maintain the discharge air setpoint. Once all economizing requirements have been met, compressor operation will be enabled if the economizer alone can not meet the demand. Once the active cooling demand has been satisfied, the compressor will modulate down to the either the minimum possible speed necessary or shut off in order to discharge scheduled LAT.

Economizer:

Using Differential Total control the economizer will modulate open from the current position if the outdoor air wet bulb temperature is less than the economizer dew point set point (55 deg F adj.), and the outdoor dry bulb temperature is less than the economizer temperature set point (75 deg F adj.). If the return dew point is less than the dew point set point, the unit will use the return dew point as the beginning of the modulation band, the modulation occurs from the current damper position to fully open over a specific dew point temperature band. The barometric (gravity operated) relief dampers will open with increased building pressure. As the building pressure increases, the pressure in the unit return section also increases, opening the dampers and relieving air.

Supply Fan:

The supply fan will be enabled while in the occupied mode and cycled on (Auto Blower Mode) during the unoccupied mode. A differential pressure switch will monitor the differential pressure across the fan. If the switch does not open after a request for fan operation, a fault will be annunciated at the HMI and communicated through CASLink, the unit will stop, requiring a manual reset.

Supply Duct Static Pressure Control:

The unit controller will modulate the supply fan speed as required to maintain the duct static pressure setpoint. If the duct static pressure falls below the supply air static setpoint + deadband, the unit controller will increase the output to the supply fan to maintain setpoint. If the duct static pressure rises above the supply air static setpoint + deadband, the unit controller will decrease the output to the supply fan to maintain setpoint. The duct static pressure setpoint shall be set either remotely through CASLink or on the onboard HMI, and shall be reset between the minimum and maximum static pressure limits to maintain the critical zone VAV air damper in a position between 65% and 75% open (adj.).

Filter Status:

A differential pressure switch will monitor the differential pressure across the filter when the fan is running. If the switch closes after a request for fan operation a dirty filter alarm will be annunciated through CASLink and on the onboard HMI in the controls vestibule. The unit will, however, continue running as usual.

Smoke Detector Shutdown: The unit will shut down in response to a signal from the smoke detector indicating the presence of smoke. The smoke detector will be interlocked to the unit through the dry contacts of the smoke detector. A manual reset of the smoke detector will be required to restart the unit.

All sensors shall be wired back to the main control board that continuously monitors all critical components and makes decisions based on pre-determined logic to accurately control the following:

- PID logic to control heater modulation ensuring precise discharge temperature control.
- PID logic to control compressor speed to provide precise control over evaporative coil temperatures, leaving dew point, and discharge temperatures.
- PID logic for outdoor fan modulation to maintain an optimal outdoor coil temperature.
- PID logic for Electronic Expansion Valve position to maintain a precise superheat temperature.
- PID logic for Modulating Reheat valve to limit supply air temperature and relative humidity based off of discharge conditions.

Ventilation Control (Fixed):

When the unit is in unoccupied mode, the ventilation airflow setpoint will be zero. When the unit is in occupied mode, the ventilation airflow setpoint will equal the design outdoor airflow (see RTU schedule).

Dehumidification mode:

During occupied mode modulating hot gas reheat shall be engaged when the intake mixed air dewpoint is above setpoint and shall run with a discharge air temperature setpoint of 56 deg F dry bulb (adj.) until intake mixed air dewpoint is below setpoint.

During unoccupied mode modulating hot gas reheat shall be off.

RTU-1 and VAV 1-11 Sequence of Operations (for tower element):
RTU-1 and VAV 1-11 shall operate same as other RTU's and VAV's except as specified below.

VAV 1-11 will not have any difference in occupied / unoccupied modes. Operation and set points remain the same.

Cooling Mode:
VAV 1-11 shall modulate to the minimum / closed position and motorized damper in return air duct shall be closed.

Heating Mode:
VAV 1-11 shall modulate to the maximum / open position and motorized damper in return air duct shall open. Electric heat in VAV box shall be utilized to maintain a space temperature of 50°F.

RTU-1 - Smoke detector:
RTU shall shut down upon detection of smoke at either smoke detector in main duct in unit or in return air branch duct (location shown on plan).

Area alarms:
If temperature drops to 45°F or below an alert on the CASLink system shall be made.

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Date
11/09/23

CONSTR. DOC. & REVISIONS
Description

No. 1
CODE RESPONSE

Michael C. Grapperhaus
MICHAEL C. GRAPPERHAUS
ENGINEER
No. 56692
PROFESSIONAL ENGINEER

11/9/23

Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

Drawn/Checked BAM / MCG
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

MECHANICAL
CONTROL NOTES

M3.1



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Savannah, GA 31406

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Email: info@globalplasmasolutions.com Web: www.globalplasmasolutions.com
VERSION 1.6 running ASHRAE 62.1-2013

Table with columns: Zone Tag, Facility Type, Zone Use, Zone Floor Area, Zone Max Occupancy, Table 6.1, Table 6.2, Outdoor Air to Zone CFM, etc. Includes a bar chart for Carbon dioxide and a table for Indoor Contaminants.

Building materials and furnishings assumed to have no VOCs and off-gassing is complete outside air levels? Yes No

Table with columns: Date, Job Name, Representative, Engineer, Contractor

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Exhaust flow rates may differ from Table 6.5 based on ASHRAE 62 IAQP via Section 6.5.2

RTU-1 VENTILATION RATE IS AN AMALGAMATION OF 2 DISSIMILAR ZONES 1A AND 1B. BASED ON VENTILATION RATES PRESCRIBED BY THE 2018 INTERNATIONAL MECHANICAL CODE, RTU-1 WILL NEED TO PROVIDE 2507 CFM OF OUTSIDE AIR AS PER EXCEPTIONS OF PARAGRAPH 403.2 OF THE 2018 INTERNATIONAL MECHANICAL CODE, THIS RATE OF 2507 CFM HAS BEEN REDUCED TO 170 CFM DUE TO AN ENGINEERED VENTILATION SYSTEM WHICH CONSISTS OF A PLASMA TUBE ADDED INTO SUPPLY AIRFLOW



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Savannah, GA 31406

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Email: info@globalplasmasolutions.com Web: www.globalplasmasolutions.com
VERSION 1.6 running ASHRAE 62.1-2013

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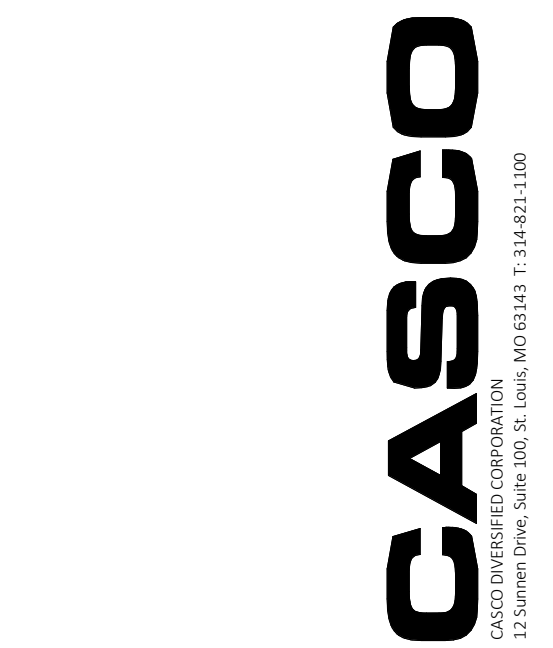
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Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

Drawn/Checked BAM / MCG
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

MECHANICAL
VENTILATION
CALCULATIONS
M4.0

PLUMBING LEGEND

X	PLUMBING FIXTURE TAG
0	KEYED NOTE
SAN	SANITARY PIPING
V	SANITARY VENT PIPING
GW	SANITARY DRAIN GREASE WASTE
ST	STORM WATER PIPING

ABBREVIATIONS

W	WASTE	WCO	CLEAN OUT IN WALL
V	VENT	FCO	CLEAN OUT IN FLOOR
VTR	VENT THROUGH ROOF	GCO	CLEAN OUT TO GRADE
SAN	SANITARY	BFF	BELOW FINISHED FLOOR
STD	STANDARD	UG	UNDER GROUND

PLUMBING GENERAL NOTES

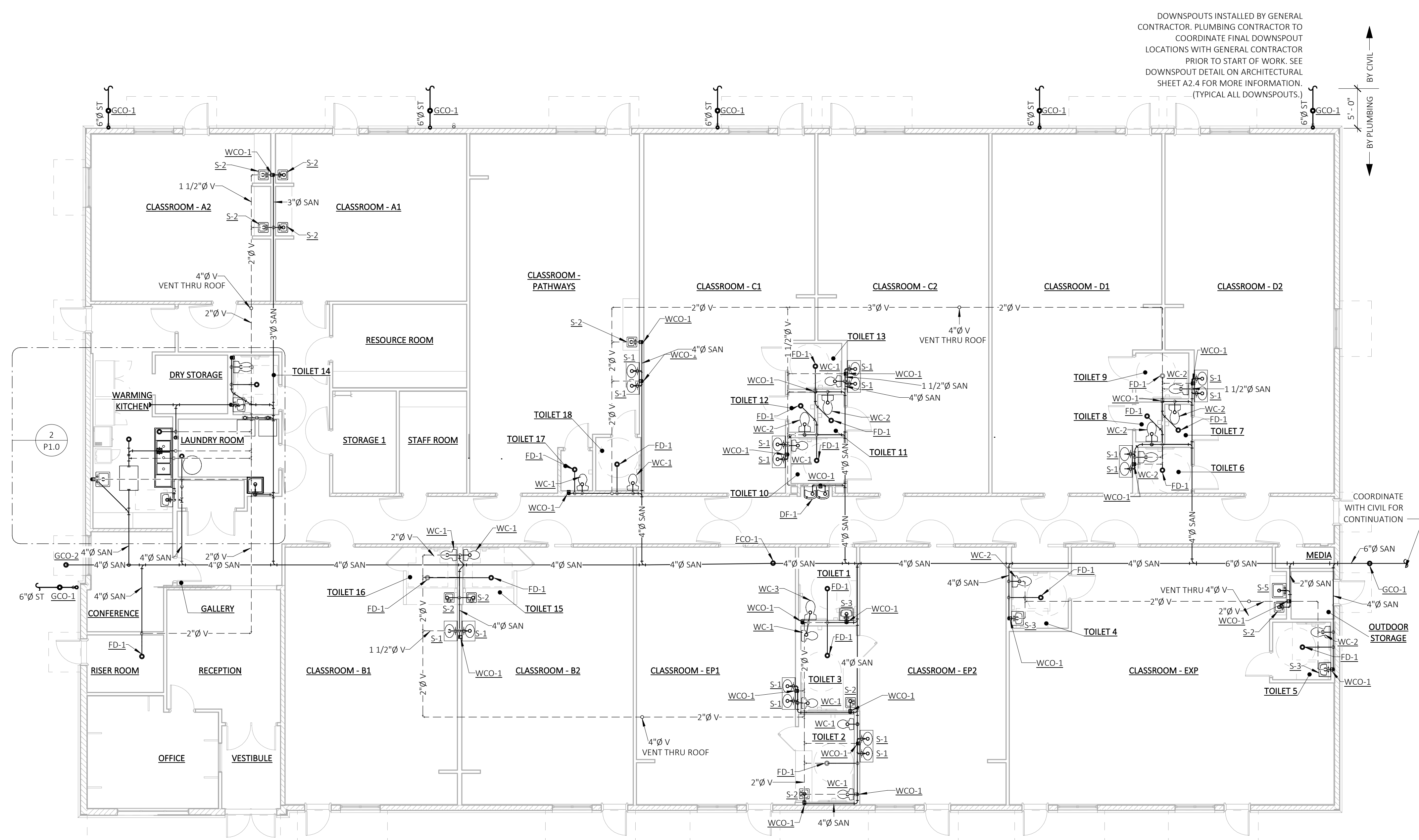
- LOCATE ALL VENTS ON ROOF. LOCATE ALL VENTS MINIMUM OF 10' AWAY FROM ANY INTAKE DUCT. COORDINATE WITH GENERAL CONTRACTOR THE EXACT LOCATION.
- ALL CLEANOUTS ARE TO BE THE FULL SIZE OF THE SANITARY OR WASTE BRANCH TO WHICH THEY ARE INSTALLED.
- ALL 6" AND 4" SANITARY AND WASTE LINES ARE TO BE SLOPED AT MIN. 1/8" PER FT. ALL GREASE WASTE LINES PRIOR TO GREASE INTERCEPTOR SHALL BE SLOPED A MINIMUM OF 1/4" PER FT.
- FLUSH CONTROLS SHALL BE ON THE OPEN SIDE OF THE ACCESSIBLE WATER CLOSET, AWAY FROM WALL.
- CONTRACTOR IS CAUTIONED THERE IS A LONG LEAD TIME FOR J.R. CLOSETS & THE ROUGH-IN IS NOT A STANDARD DIMENSION.
- GROUT/SEAL ALL FIXTURES TO THE WALL OR FLOOR.
- THIS CONTRACTOR SHALL PROVIDE SEWER CONNECTIONS TO THE PROPER UTILITY AS SHOWN ON THE SITE UTILITY PLANS.
- ALL CLEANOUT LOCATIONS SHALL BE VERIFIED WITH PRIMROSE CONSTRUCTION MANAGER PRIOR TO INSTALLATION. ALL GROUND CLEANOUTS INSTALLED IN SIDEWALKS SHALL BE CENTERED IN SIDEWALK.
- ALL TWO-WAY GROUND CLEANOUTS SHALL BE INSTALLED PER TWO-WAY CLEANOUT DETAIL ON SHEET PS.0.
- SEE ISOMETRIC DRAWINGS FOR MORE IN DEPTH SIZING NOTES.
- PLUMBING CONTRACTOR SHALL COORDINATE SANITARY ROUGH-IN LOCATIONS WITH STRUCTURAL FOOTINGS AND FOUNDATIONS PRIOR TO INSTALLING ANY PIPING.

CIVIL ENGINEERING DESIGN COORDINATION NOTICE

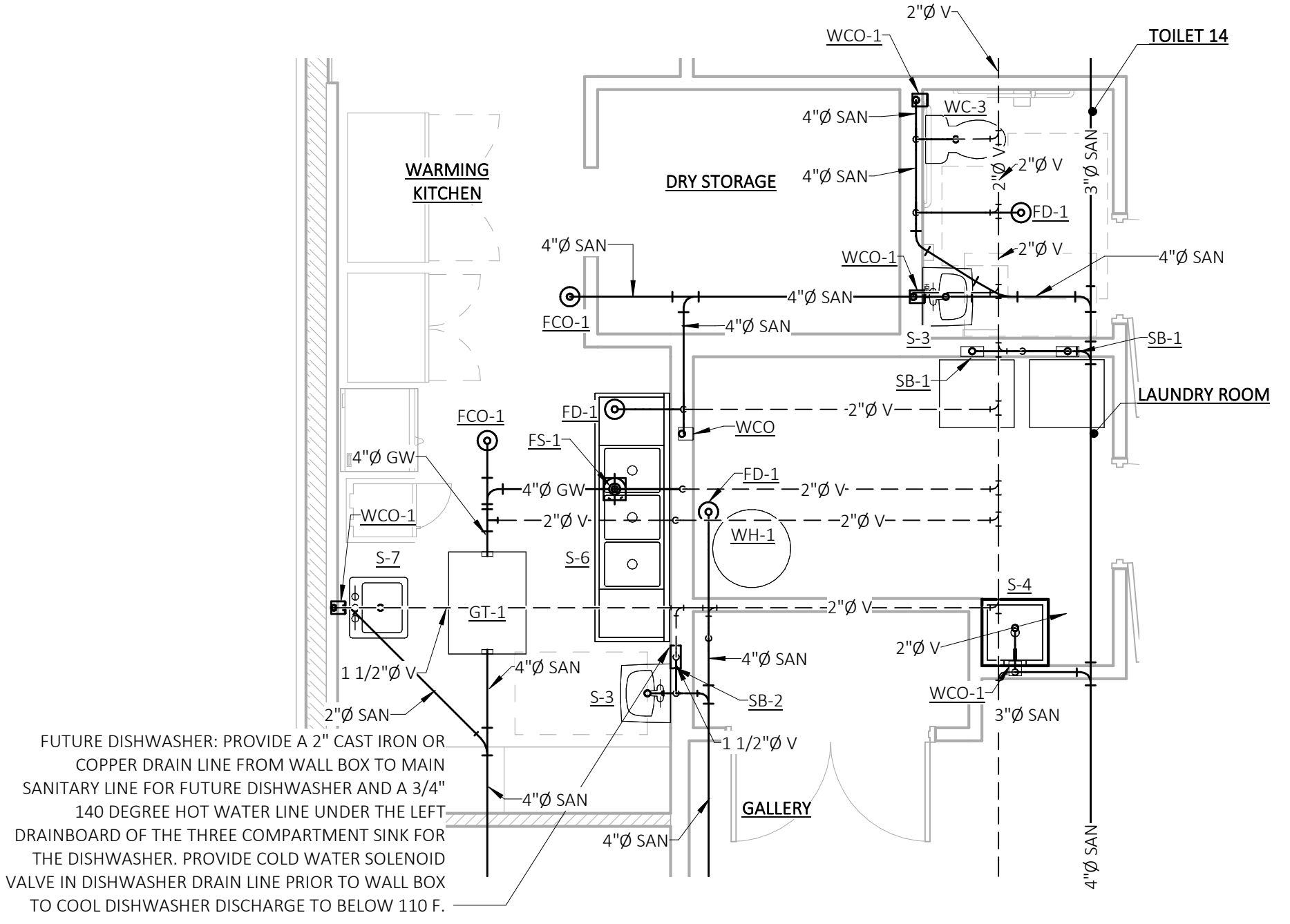
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 - COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.
- CIVIL ENGINEERING CONSULTANT IS: **ORMAN ENGINEERING, LLC**
5476 VIVIAN LANE, WATERFORD, MI, 48327

CIVIL SHT.	CIVIL SHEET DWG. TITLE	REV. NO.	REV. DATE	REV. NO.	REV. DATE	REV. NO.	REV. DATE
SP-3	SITE PLAN	PERMIT	2/28/23	-	-	-	-

COORDINATION CHECKED BY:	INITIALS	DATE	INITIALS	DATE	INITIALS	DATE
DISCIPLINE: PLUMBING	BAM	7/12/23	-	-	-	-



1 SANITARY FLOOR PLAN
SCALE: 1/8" = 1'-0"
NORTH



2 ENLARGED KITCHEN SANITARY PLAN
SCALE: 1/4" = 1'-0"
NORTH

2015 MICHIGAN UNIFORM ENERGY CODE POST CONSTRUCTION REQUIREMENTS

PER THE REQUIREMENTS OF THE 2015 MICHIGAN UNIFORM ENERGY CODE, THE GENERAL CONTRACTOR SHALL OBTAIN & PROVIDE THE FOLLOWING PLUMBING RELATED ITEMS LISTED BELOW. CONTRACTOR SHALL PROVIDE A COPY TO THE TENANT AND WRITTEN CONFIRMATION TO THE PROFESSIONAL OF RECORD PROVING SAID INFORMATION HAS BEEN PROVIDED.

- O&M DOCUMENTS FOR ALL PLUMBING EQUIPMENT AND SYSTEMS PROVIDED TO THE TENANT BY THE PLUMBING CONTRACTOR WITH 90 DAYS OF SYSTEM ACCEPTANCE.
- A COMMISSIONING PLAN SHALL BE DEVELOPED BY APPROVED AGENCY.
- PLUMBING EQUIPMENT AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE PROPER OPERATION.
- A PRELIMINARY COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY APPROVED AGENCY.
- AS-BUILT DRAWINGS SHALL BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- A FINAL COMMISSIONING REPORT SHALL BE PROVIDED TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.
- ALL PLUMBING CONTROL SYSTEMS SHALL BE TESTED TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS.

PLUMBING FIXTURE UNIT CALCULATIONS

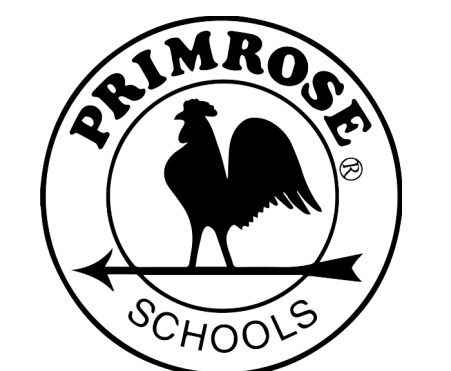
EQUIVALENT COLD WATER FLOW RATE (GPM):	45
ADDITIONAL DEMAND LOAD (GPM):	0
PRESSURE AVAILABLE AT MAIN (PSI):	Project Specific
PRESSURE BOOSTER PUMP (PSI):	Project Specific
ELEVATION RISE (FT):	15
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):	Project Specific
TOTAL DEVELOPED LENGTH OF PIPE (ABOVE X 1.2) (FT):	Project Specific
BUILDING LOSS:	
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	8
STRAINER (PSI):	5
METER LOSS (PSI):	10
BACKFLOW PREVENTER LOSS (PSI):	15
STATIC PRESSURE LOSS (ELEVATION X .433) (PSI):	6
ADDITIONAL LOSSES (PSI):	0
TOTAL BUILDING PRESSURE LOSS (PSI)	44
FRICTION LOSS PRESSURE AVAILABLE (PSI):	Project Specific
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):	5 (Project Specific)
WATER FLOW VELOCITY (FPS):	6
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	Project Specific
MINIMUM REQUIRED "WATER" PIPE SIZE (INCHES):	2
MINIMUM REQUIRED "WASTE" PIPE SIZE (INCHES):	4

(PER 2018 IPC)

MARK	QTY.	PLUMBING FIXTURE TYPE	2015 MPC - TABLE 709.1		2015 MPC - TABLE E103.3(2)	
			DFU	TOTAL DFU	WSFU	Total WSFU
WC-1	10	JUNIOR WATER CLOSET	4	40	2.2	22
WC-2	8	STANDARD WATER CLOSET	4	32	2.2	17.6
WC-3	2	ADA WATER CLOSET	4	8	5	10
S-1	16	JUNIOR SINK	1	16	0.7	11.2
S-2	10	COUNTER SINK	2	20	0.7	7
S-3	1	ADA LAVATORY	1	1	2	2
S-4	1	MOP SINK	2	2	3	3
S-5	1	SINK	2	2	1.4	1.4
S-6	1	3 COMPARTMENT SINK	0	0	4	4
S-7	1	PREP SINK	2	2	1.4	1.4
FS-1	1	FLOOR SINK	2	2	0	0
SB-1	2	SUPPLY BOX (WASHING MACHINE)	3	6	4	8
SB-2	1	SUPPLY BOX (DISHWASHER)	2	2	1.4	1.4
DF-1	1	DRINKING FOUNTAIN	0.5	0.5	0.25	0.25
HB-1	6	HOSE BIBB	0	0	2.5	15
HB-2	1	ROOF HOSE BIBB	0	0	2.5	2.5
FD-1	21	FLOOR DRAIN	2	42	0	0
			175.5		106.75	

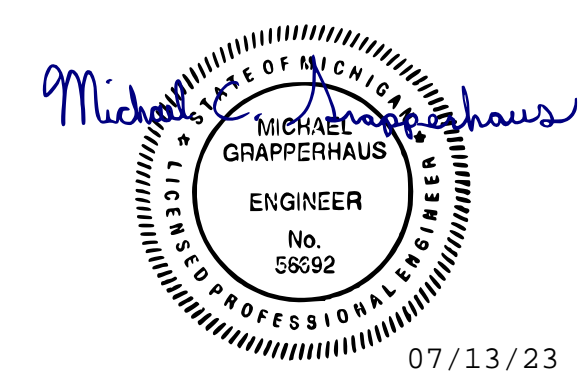
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43455 W. 10 MILE ROAD
NOVI, MI 48375



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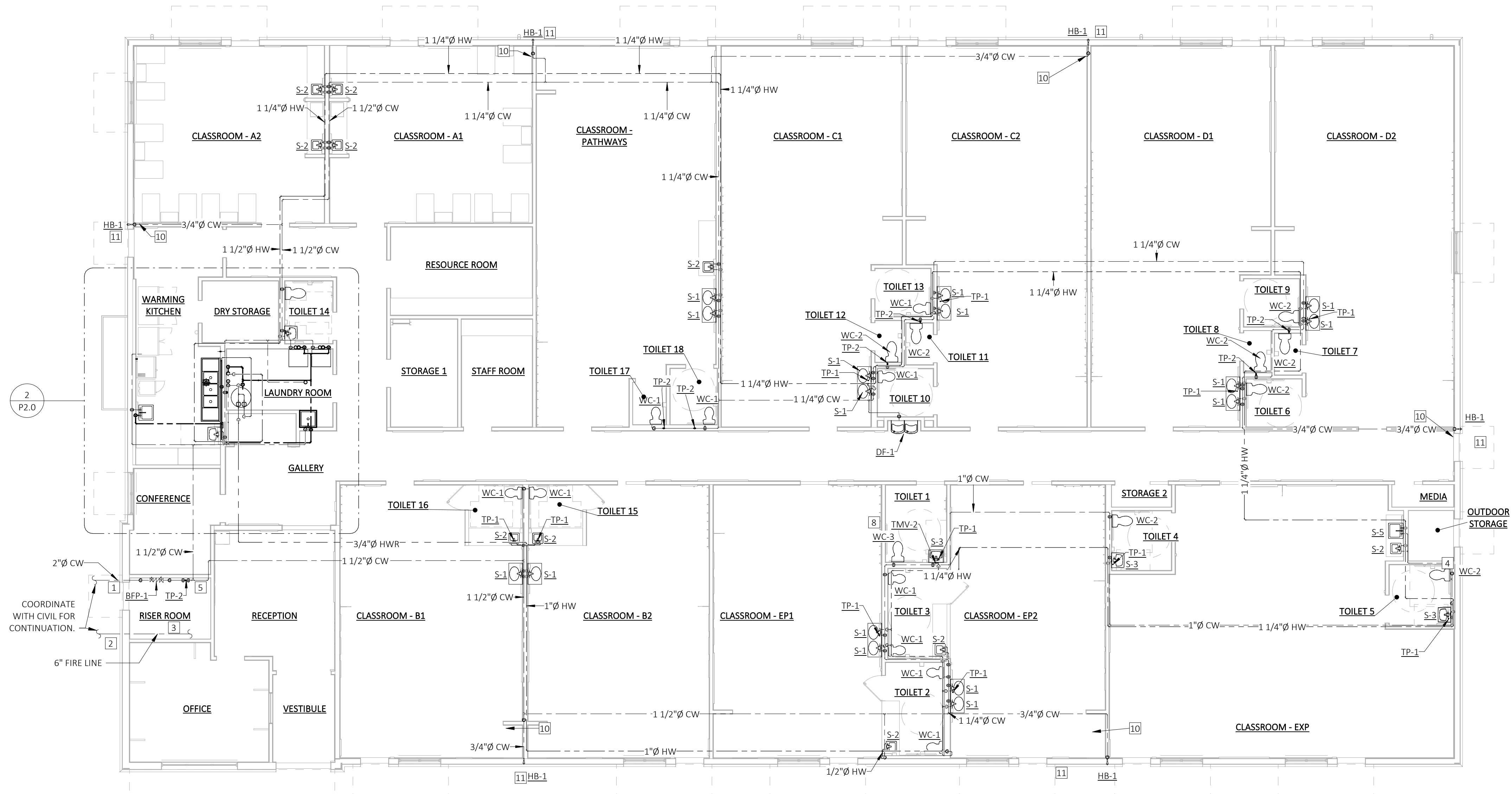


Professional of Record:
Michael C. Grapperhaus
LICENSE NO: 56692
EXP. DATE: 9/30/23

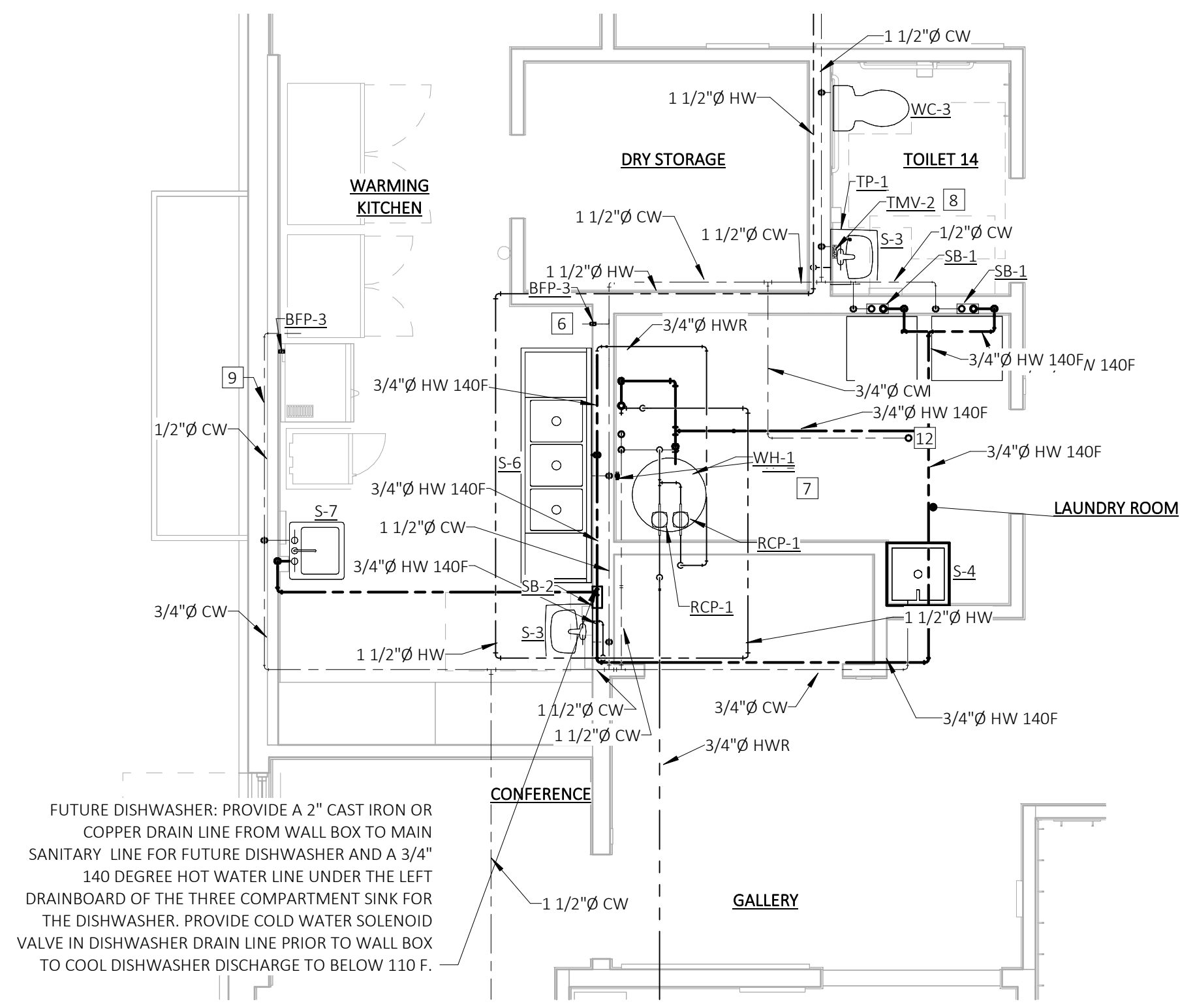
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Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

SANITARY FLOOR PLAN

P1.0



FLOOR PLAN - WATER SYSTEM
 SCALE: 1/8" = 1'-0"
 NORTH



ENLARGED KITCHEN WATER PLAN
 SCALE: 1/4" = 1'-0"
 FUTURE DISHWASHER: PROVIDE A 2" CAST IRON OR COPPER DRAIN LINE FROM WALL BOX TO MAIN SANITARY LINE FOR FUTURE DISHWASHER AND A 3/4" 140 DEGREE HOT WATER LINE UNDER THE LEFT DRAINBOARD OF THE THREE COMPARTMENT SINK FOR THE DISHWASHER. PROVIDE COLD WATER SOLENOID VALVE IN DISHWASHER DRAIN LINE PRIOR TO WALL BOX TO COOL DISHWASHER DISCHARGE TO BELOW 110 F.

PLUMBING LEGEND

X	PLUMBING FIXTURE TAG
0	KEYED NOTE
CW	COLD WATER SUPPLY
HW	HOT WATER SUPPLY (110 DEGREES)
HW	HOT WATER SUPPLY (140 DEGREES)
HWR	HOT WATER RETURN
+	SHUT OFF VALVE
	UNION

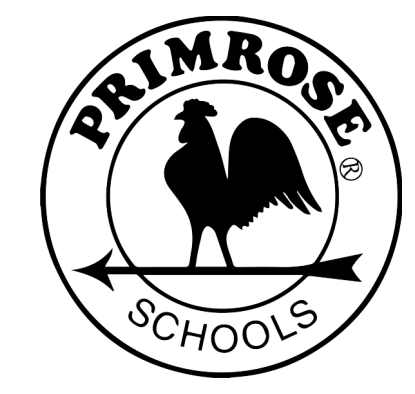
ABBREVIATIONS

FD	FLOOR DRAIN	GV	GATE VALVE
FS	FLOOR SINK	ASV	ACCESSIBLE SHUT-OFF VALVE
HB	HOSE BIBB	STD	STANDARD
HD	HUB DRAIN	BFF	BELOW FINISHED FLOOR

WATER PLAN KEYED NOTES

- 2" DOMESTIC WATER SERVICE WITH 2" METER AND 2" BACKFLOW PREVENTER IN BUILDING. COORDINATE WITH CIVIL ENGINEERING DRAWINGS. CONTRACTOR TO PROVIDE SHUT OFF AT INSIDE OF BUILDING.
- 6" FIRE SERVICE INTO BUILDING. SEE CIVIL ENGINEERING DRAWINGS.
- FIRE LINE TO FIRE SPRINKLER SYSTEM. SEE SPECIFICATIONS SHEET MP1.0. COORDINATE FIRE DEPARTMENT CONNECTION (FDC) LOCATION WITH LOCAL AUTHORITIES. FIRE PROTECTION CONTRACTOR SHALL PROVIDE RP2 BACKFLOW ASSEMBLY IN ROOM IF NOT PROVIDED ON SITE.
- DROP FIRE SPRINKLER TEST TEE PIPING DOWN IN WALL IN TOILET ROOM. PREFERRED LOCATION, FINAL LOCATION TO BE COORDINATED WITH FIRE PROTECTION ENGINEER / CONTRACTOR.
- COLD WATER MANIFOLD PIPING WITH SHUT-OFF VALVES.
- 3/4" CW TO ICE MAKER WITH BACKFLOW PREVENTER.
- WH-1 - WATER HEATER - SEE SCHEDULE AND PIPING DETAIL SHEET P5.0.
- PROVIDE POINT OF USE MIXING VALVE AT LAVATORY. SEE SCHEDULE AND DETAIL ON SHEET P5.0.
- 1/2" CW TO CONVECTION OVEN WITH BACKFLOW PREVENTER.
- INSTALL ACCESSIBLE STOP VALVES ON PIPING SERVING HOSE BIBBS. PROVIDE ACCESS PANEL IN INTERIOR WALL. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS. ACCESS COVERS SHALL BE J.R. SMITH # 4730, 15"X15"-NB-U FLUSH WITH WALL COVER.
- NON-FREEZE HOSE BIBB AT 24" AFG WITH KEY LOCK & VACUUM BREAKER.
- 3/4" CW LINE TO NON-FREEZE ROOF HYDRANT. REFER TO SHEET P5.0 FOR SCHEDULE, AND SHEET MP2.0 FOR DETAIL. SEAL ROOF PENETRATIONS WEATHER TIGHT. COORDINATE IN FIELD WITH ALL OTHER TRADES TO DETERMINE FINAL LOCATION PRIOR TO INSTALLATION. INSTALL ACCESSIBLE SHUT-OFF VALVE IN WATER LINE BELOW ROOF.

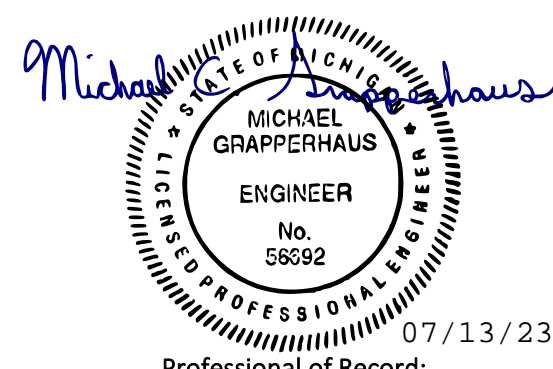
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 Description

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Professional of Record:
 Michael C. Grapperhaus
 LICENSE NO: 55692
 EXP. DATE: 9/30/23

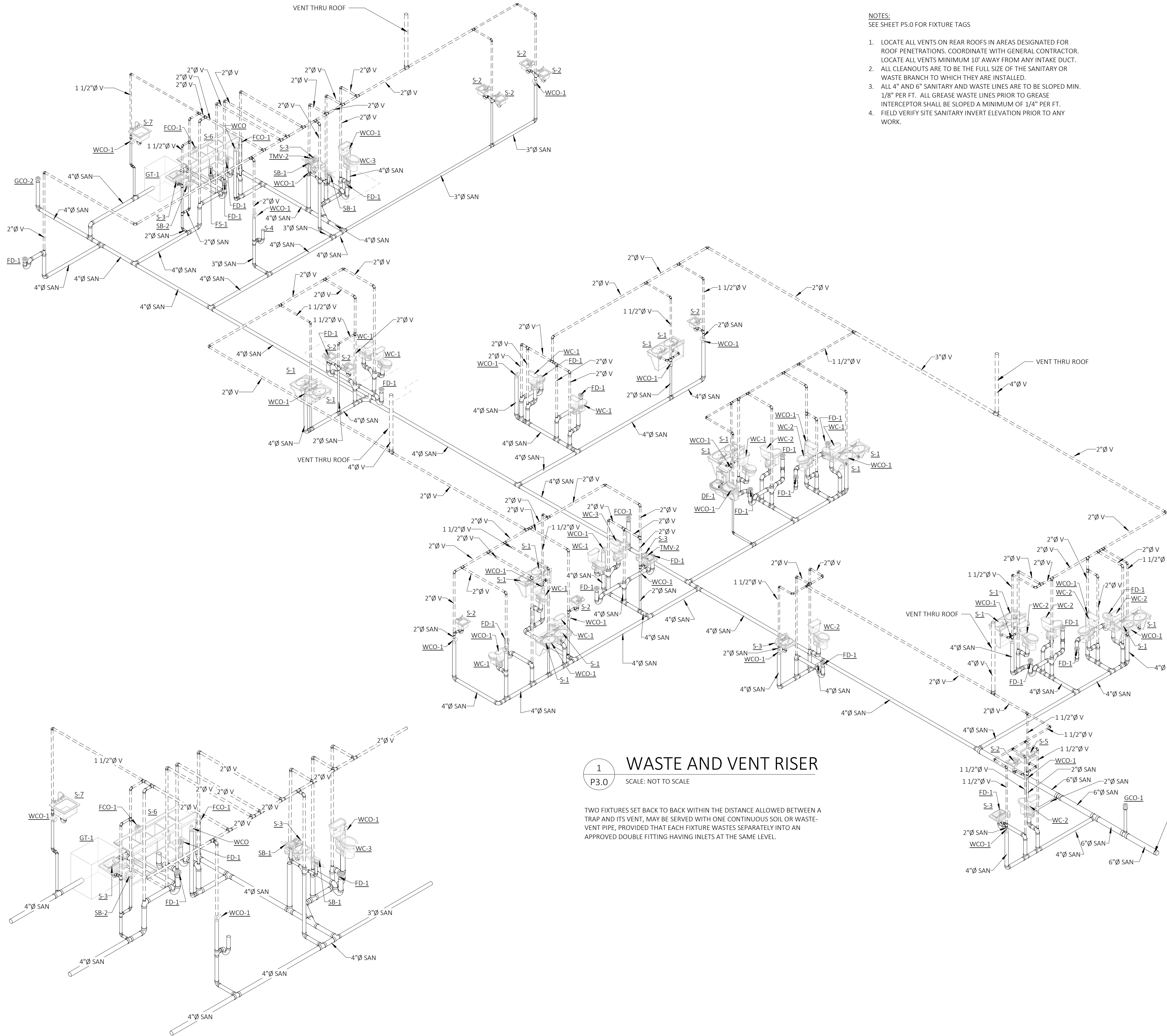
PLUMBING GENERAL NOTES

- INSULATE ALL HOT WATER PIPING WITH 1" ARMAFLEX BELOW FLOOR, ABOVE CEILING, AND IN INTERIOR WALLS.
- PROVIDE 3/8" CW SUPPLY TO ALL FLOOR DRAIN TRAP PRIMERS.
- THE CONTRACTOR SHALL PROVIDE WATER CONNECTIONS TO THE EXISTING LINES AS SHOWN ON THIS PLAN.
- WATER PIPING RUN ABOVE CEILINGS WITHIN JOIST SPACE. ALL VALVES MUST BE INSTALLED IN ACCESSIBLE LOCATIONS.
- NO JOINTS OR FITTINGS ALLOWED BELOW FLOOR.
- SEE ISOMETRIC DRAWINGS FOR MORE IN DEPTH SIZING NOTES.

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WATER SYSTEM
 FLOOR PLAN

P2.0



NOTES:
SEE SHEET P5.0 FOR FIXTURE TAGS

1. LOCATE ALL VENTS ON REAR ROOFS IN AREAS DESIGNATED FOR ROOF PENETRATIONS. COORDINATE WITH GENERAL CONTRACTOR. LOCATE ALL VENTS MINIMUM 10' AWAY FROM ANY INTAKE DUCT.
2. ALL CLEANOUTS ARE TO BE THE FULL SIZE OF THE SANITARY OR WASTE BRANCH TO WHICH THEY ARE INSTALLED.
3. ALL 4" AND 6" SANITARY AND WASTE LINES ARE TO BE SLOPED MIN. 1/8" PER FT. ALL GREASE WASTE LINES PRIOR TO GREASE INTERCEPTOR SHALL BE SLOPED A MINIMUM OF 1/4" PER FT.
4. FIELD VERIFY SITE SANITARY INVERT ELEVATION PRIOR TO ANY WORK.

SANITARY/VENT ROUGH-IN			
MARK	PLUMBING TYPE	SAN Ø	Vent Ø
WC-1	JUNIOR WATER CLOSET	4"	2"
WC-2	STANDARD WATER CLOSET	4"	2"
WC-3	ADA WATER CLOSET	4"	2"
S-1	JUNIOR SINK	1 1/2"	1 1/2"
S-2	COUNTER SINK	1 1/2"	1 1/2"
S-3	ADA LAVATORY	1 1/2"	1 1/2"
S-4	MOP SINK	3"	2"
S-5	SINK	2"	1 1/2"
S-6	3 COMPARTMENT SINK	2"	1 1/2"
S-7	PREP SINK	2"	1 1/2"
FS-1	FLOOR SINK	4"	2"
SB-1	SUPPLY BOX (WASHING MACHINE)	2"	2"
SB-2	SUPPLY BOX (DISHWASHER)	2"	2"
DF-1	DRINKING FOUNTAIN	1 1/2"	1 1/2"
FD-1	FLOOR DRAIN	4"	2"

1 WASTE AND VENT RISER
SCALE: NOT TO SCALE

TWO FIXTURES SET BACK TO BACK WITHIN THE DISTANCE ALLOWED BETWEEN A TRAP AND ITS VENT, MAY BE SERVED WITH ONE CONTINUOUS SOIL OR WASTE-VENT PIPE, PROVIDED THAT EACH FIXTURE WASTES SEPARATELY INTO AN APPROVED DOUBLE FITTING HAVING INLETS AT THE SAME LEVEL.

COORDINATE WITH CIVIL FOR CONTINUATION

4 WASTE AND VENT RISER - ENLARGED KITCHEN
SCALE: NOT TO SCALE

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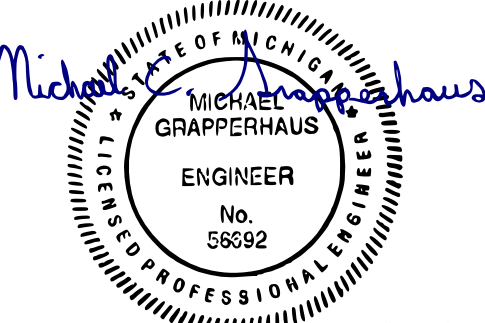


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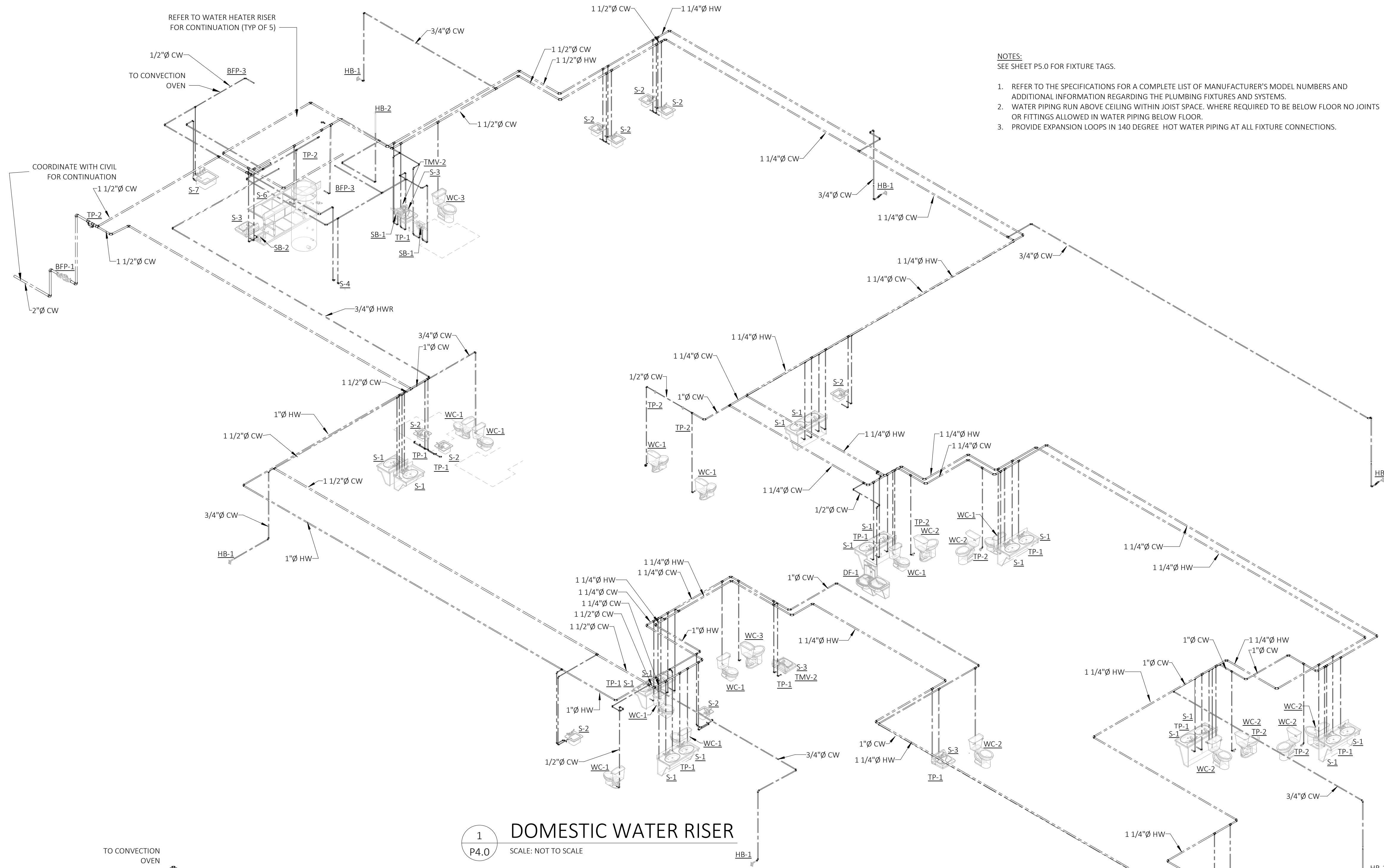


07/13/23
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SANITARY ISOMETRIC

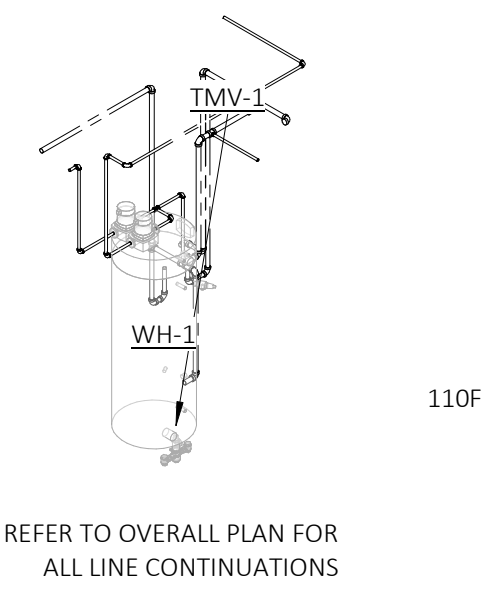
P3.0



1
DOMESTIC WATER RISER
SCALE: NOT TO SCALE

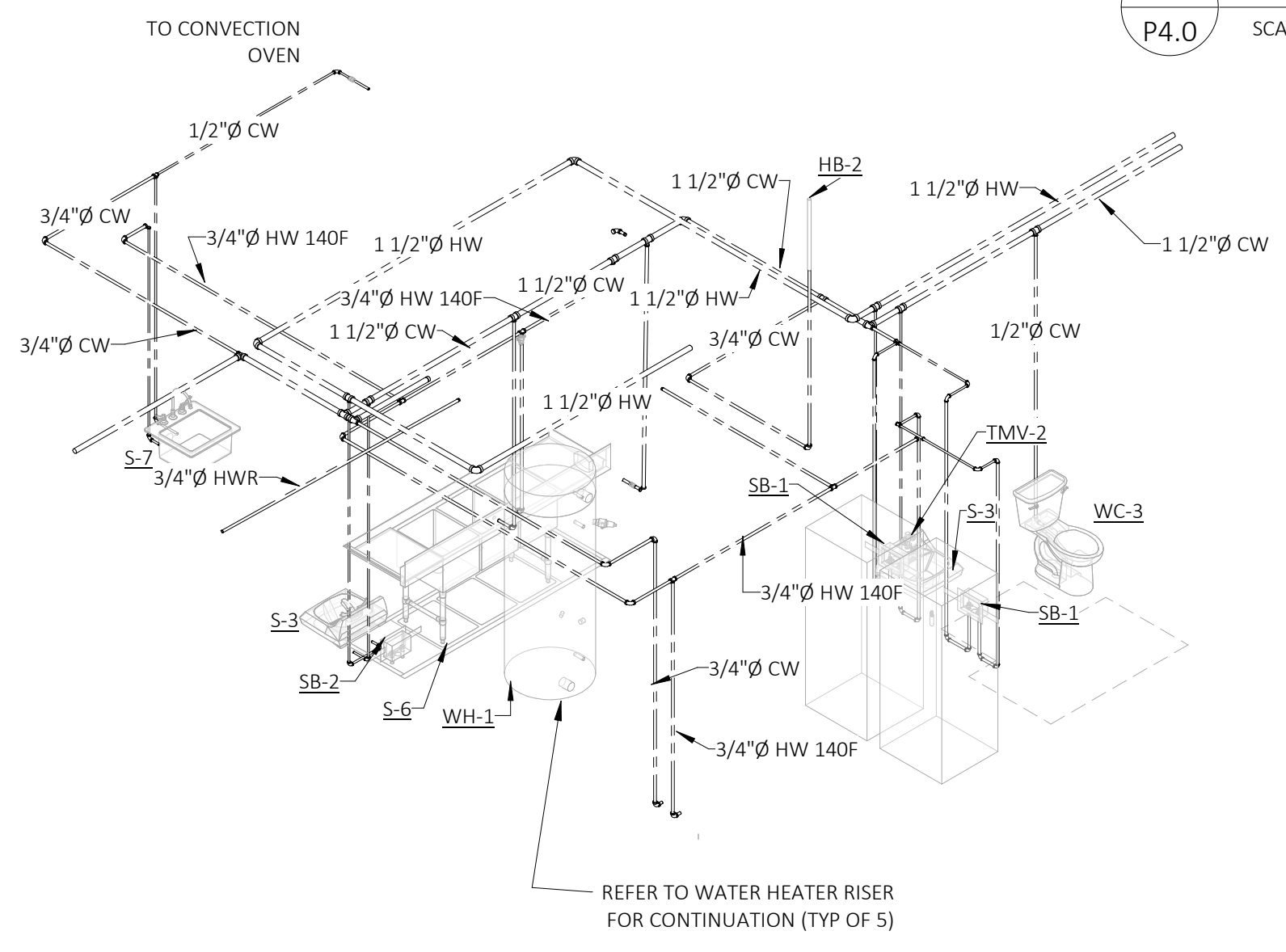
- NOTES:**
SEE SHEET P5.0 FOR FIXTURE TAGS.
- REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST OF MANUFACTURER'S MODEL NUMBERS AND ADDITIONAL INFORMATION REGARDING THE PLUMBING FIXTURES AND SYSTEMS.
 - WATER PIPING RUN ABOVE CEILING WITHIN JOIST SPACE. WHERE REQUIRED TO BE BELOW FLOOR NO JOINTS OR FITTINGS ALLOWED IN WATER PIPING BELOW FLOOR.
 - PROVIDE EXPANSION LOOPS IN 140 DEGREE HOT WATER PIPING AT ALL FIXTURE CONNECTIONS.

WATER ROUGH-IN			
MARK	PLUMBING TYPE	CWØ	HWØ
WC-1	JUNIOR WATER CLOSET	1/2"	0"
WC-2	STANDARD WATER CLOSET	1/2"	0"
WC-3	ADA WATER CLOSET	1/2"	0"
S-1	JUNIOR SINK	1/2"	1/2"
S-2	COUNTER SINK	1/2"	1/2"
S-3	ADA LAVATORY	1/2"	1/2"
S-4	MOP SINK	3/4"	3/4"
S-5	SINK	1/2"	1/2"
S-6	3 COMPARTMENT SINK	3/4"	3/4"
S-7	PREP SINK	1/2"	1/2"
SB-1	SUPPLY BOX (WASHING MACHINE)	1/2"	1/2"
SB-2	SUPPLY BOX (DISHWASHER)	1/2"	1/2"
DF-1	DRINKING FOUNTAIN	1/2"	0"
HB-1	HOSE BIBB	3/4"	0"
HB-2	ROOF HOSE BIBB	3/4"	0"
RCP-1	RECIRCULATION PUMP	0"	3/4"
TMV-1	THERMOSTATIC MIXING VALVE	1"	1"
TMV-2	THERMOSTATIC MIXING VALVE	1/2"	1/2"
WH-1	WATER HEATER	1 1/2"	1 1/2"
TP-1	TRAP PRIMER	3/8"	0"
TP-2	TRAP PRIMER	1/2"	0"
BFP-1	BACKFLOW PREVENTER	2"	0"
BFP-3	BACKFLOW PREVENTER	0"	0"



REFER TO OVERALL PLAN FOR ALL LINE CONTINUATIONS

110F



3
DOMESTIC WATER RISER - ENLARGED KITCHEN
SCALE: NOT TO SCALE

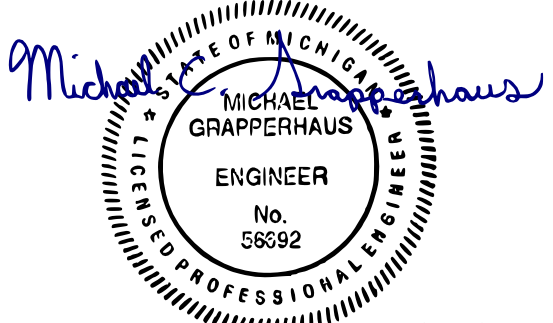
2
DOMESTIC WATER HEATER RISER
SCALE: NOT TO SCALE

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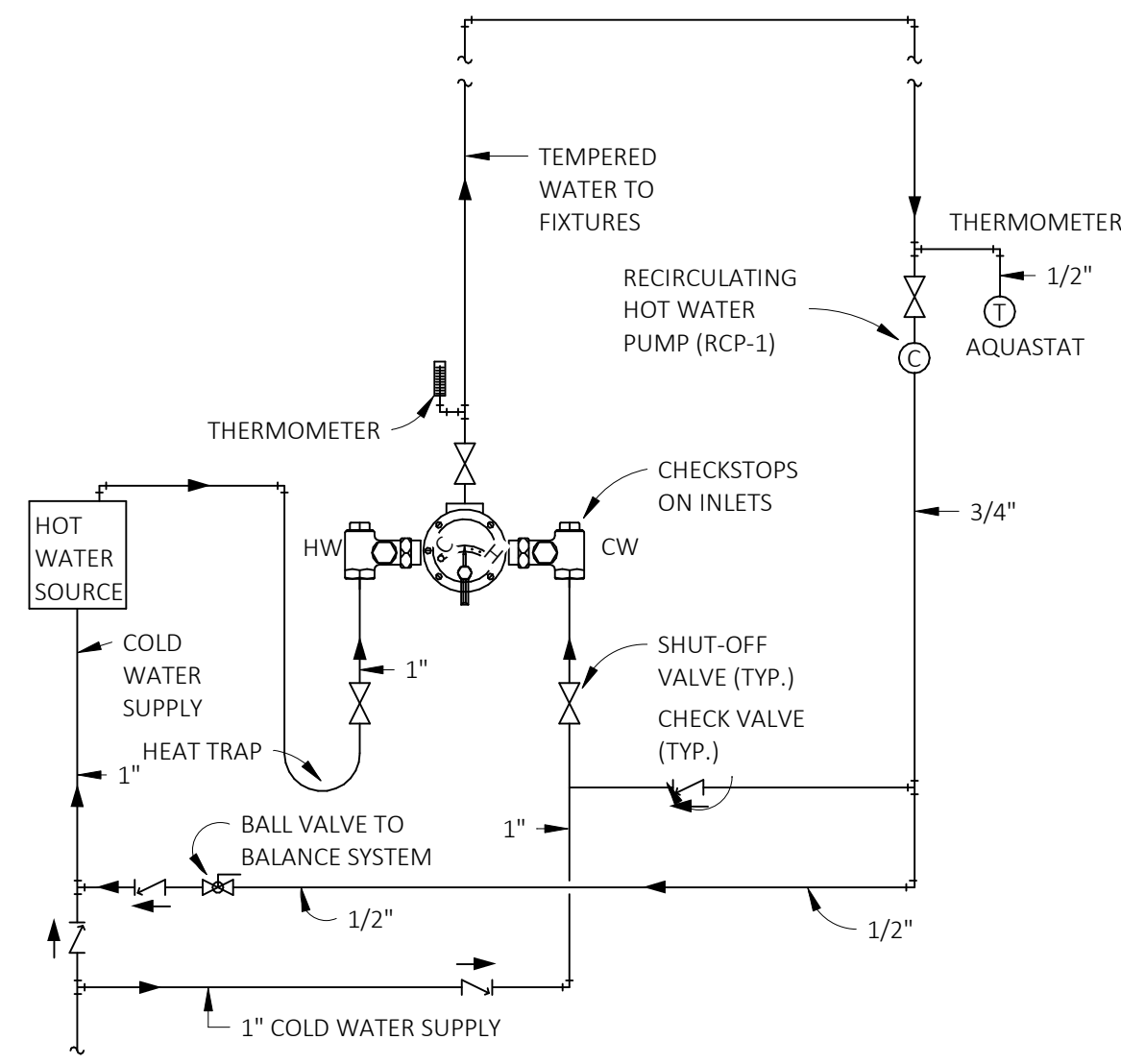


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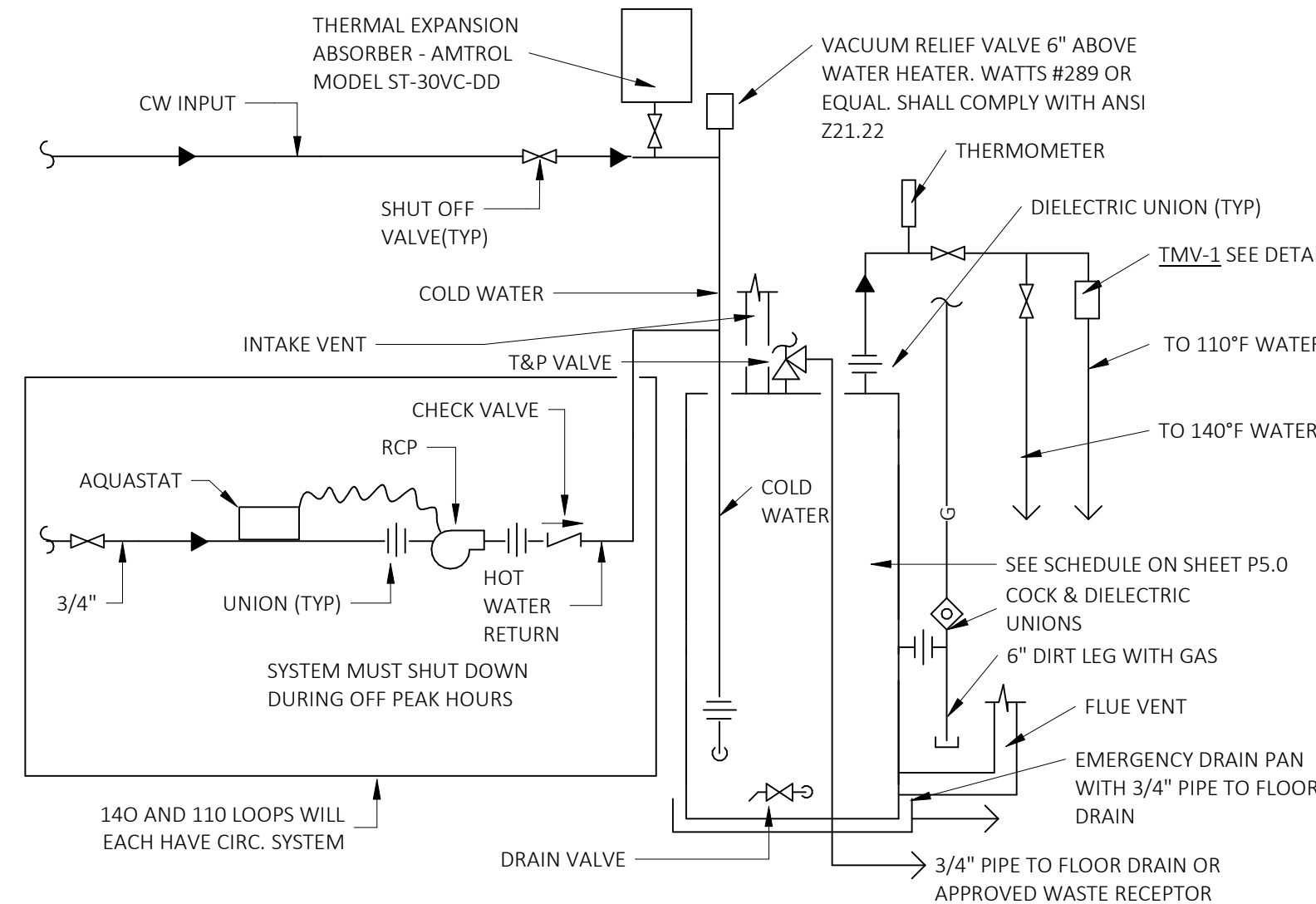
WATER SYSTEM
ISOMETRIC

P4.0

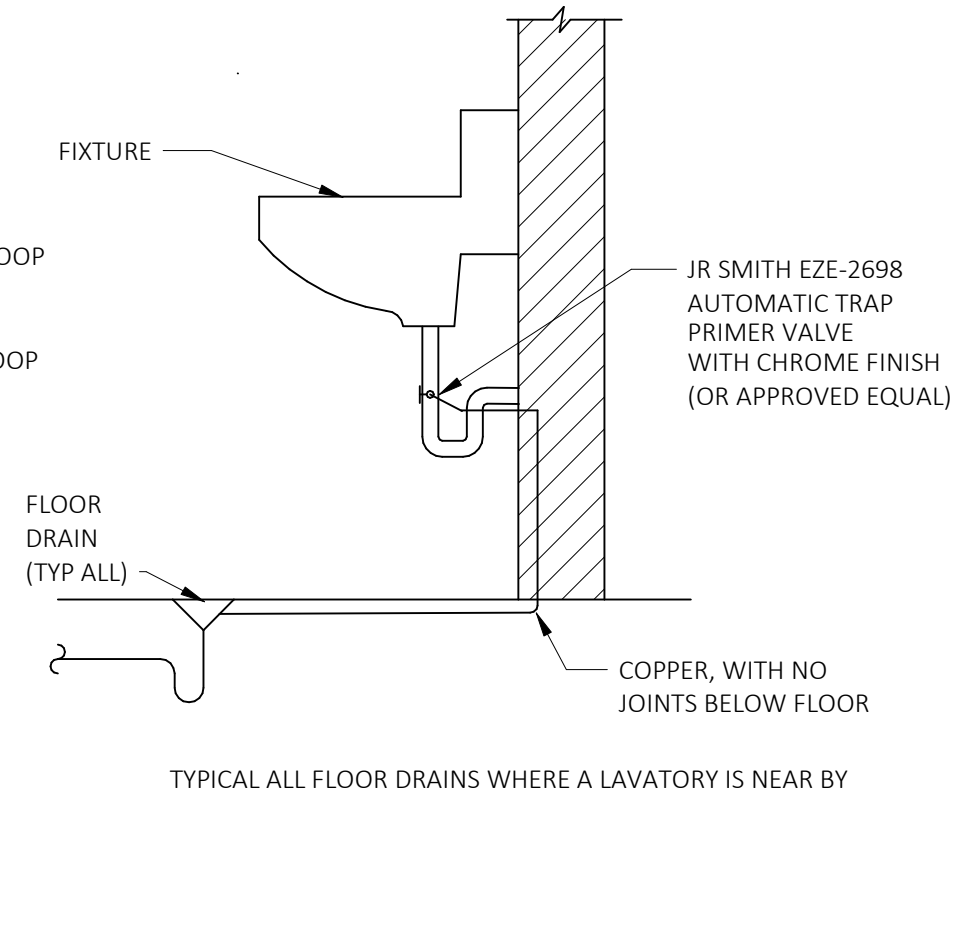


NOTE: REFER TO AND INSTALL PER ALL MANUFACTURERS RECOMMENDED PIPING INSTRUCTIONS

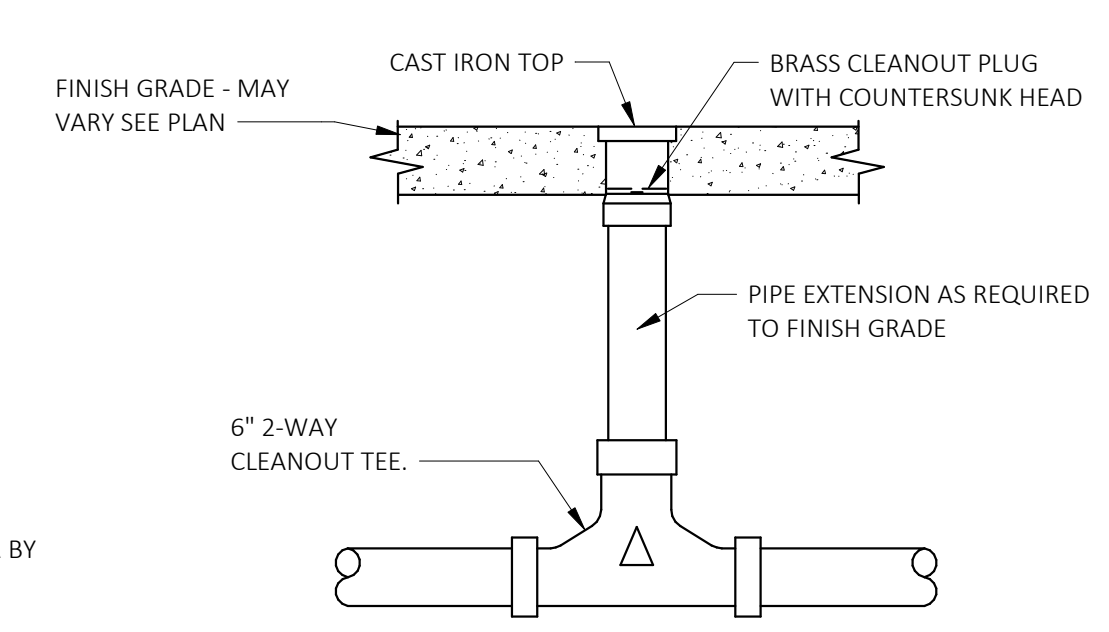
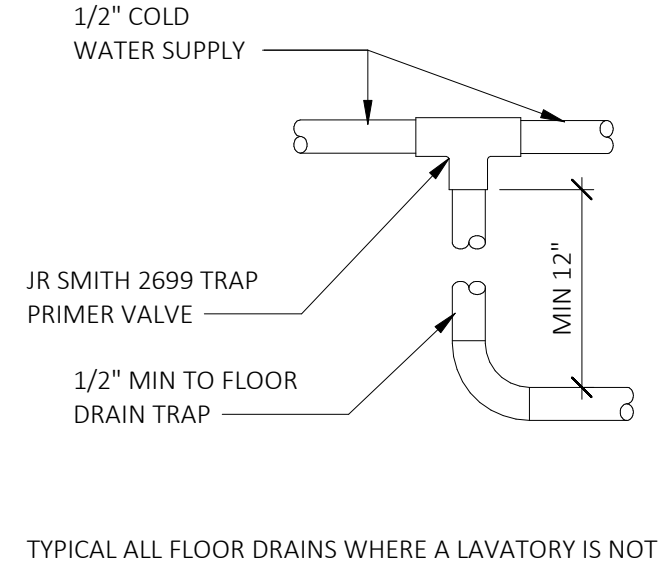
1 THERMOSTATIC MIXING VALVE (TMV-1) SCALE: NOT TO SCALE



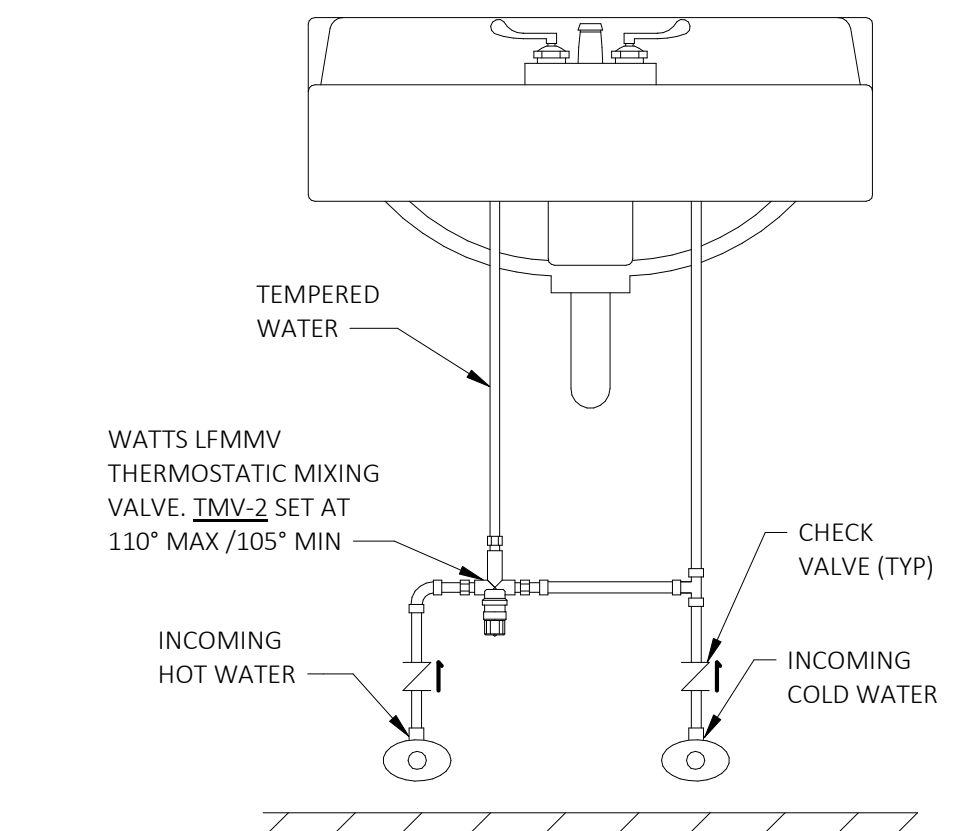
2 WATER HEATER PIPING DETAIL SCALE: NOT TO SCALE



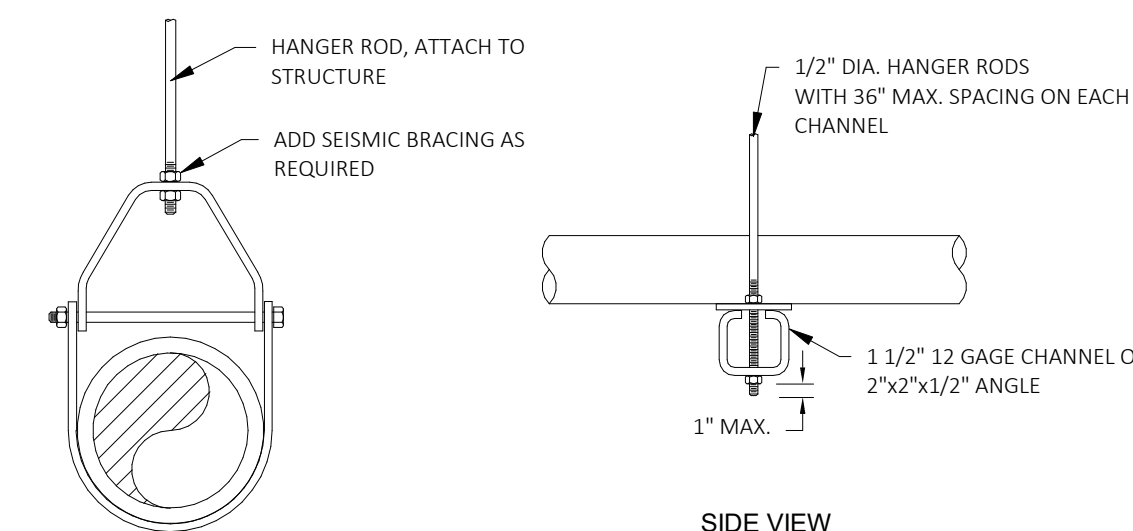
3 TRAP PRIMER SCALE: NOT TO SCALE



4 TYPICAL TWO-WAY CLEANOUT SCALE: NOT TO SCALE



5 POINT OF USE MIXING VALVE SCALE: NOT TO SCALE

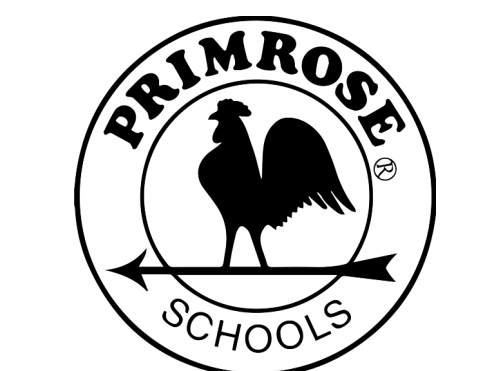


6 TYPICAL PIPE HANGER DETAIL SCALE: NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

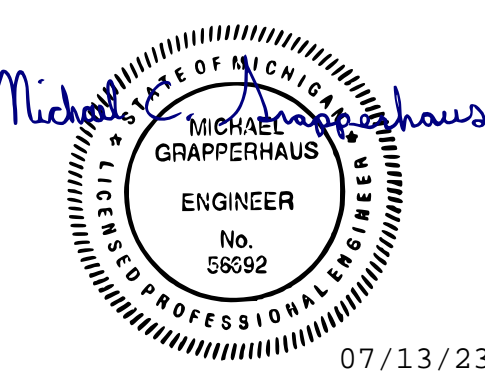
MARK	PLUMBING TYPE	FIXTURE SPECIFICATIONS						FAUCET				DESCRIPTION
		MANUFACTURER	MODEL	CWØ	HWØ	SANØ	Vent Ø	MANUFACTURER	MODEL	CWØ	HWØ	
WC-1	JUNIOR WATER CLOSET	American Standard	2315.228	1/2"	0"	4"	2"					JUNIOR 10" WATER CLOSET, WHITE: TANK WITH COVER LOCKING DEVICE, ROUND FRONT SIPHON ACTION BOWL, 1.28 GALLONS PER FLUSH, WHITE, CHURCH #1580CT OPEN FRONT SEAT, NO COVER SEAT WITH CHECK HINGES, 2 BOLT CAPS, ANGLE VALVE BRASSCRAFT #OCR19XC, 1/2" NOM. COMP INLET X 3/8" OD COMP OUTLET POLISHED CHROME WITH 12" RISER, AND ONE PIECE CHROME PLATED BRASS ESCUTCHEON. GERBER MODEL HE-20-601 IS AN APPROVED EQUAL. TRIP LEVER SHALL BE ON OPEN SIDE OF ACCESSIBLE TOILETS.
WC-2	STANDARD WATER CLOSET	American Standard	CADET 215CA.104	1/2"	0"	4"	2"					STANDARD 15" RIM HEIGHT WATER CLOSET, WHITE: 4188A.164 TANK WITH COVER LOCKING DEVICE, ENLARGED BOWL, 1.28 GALLONS PER FLUSH, WHITE, CHURCH #2955SCT OPEN FRONT SEAT, NO COVER SEAT WITH SELF SUSTAINING HINGES, 2 BOLT CAPS, ANGLE VALVE BRASSCRAFT #OCR19XC, 1/2" NOM. COMP INLET X 3/8" OD COMP OUTLET POLISHED CHROME WITH 12" RISER, AND ONE PIECE CHROME PLATED BRASS ESCUTCHEON. APPROVED EQUALS ONLY. SEE MANUFACTURER'S CUTSHEETS FOR RIGHT HAND TRIP LEVERS WHERE REQUIRED ON THE OPEN SIDE OF ACCESSIBLE TOILETS.
WC-3	ADA WATER CLOSET	American Standard	CADET 215AA.104	1/2"	0"	4"	2"					ADA COMPLIANT 16.5" RIM HEIGHT, WHITE: 4188A.164 TANK WITH COVER LOCKING DEVICE, ENLARGED BOWL, 1.28 GALLONS PER FLUSH, WHITE, CHURCH #2955SCT OPEN FRONT SEAT, NO COVER SEAT WITH SELF SUSTAINING HINGES, 2 BOLT CAPS, ANGLE VALVE BRASSCRAFT #OCR19XC, 1/2" NOM. COMP INLET X 3/8" OD COMP OUTLET POLISHED CHROME WITH 12" RISER, AND ONE PIECE CHROME PLATED BRASS ESCUTCHEON. APPROVED EQUALS ONLY. SEE MANUFACTURER'S CUTSHEETS FOR RIGHT HAND TRIP LEVERS WHERE REQUIRED ON THE OPEN SIDE OF ACCESSIBLE TOILETS.
S-1	JUNIOR SINK	Cabinet Manufacturer		1/2"	1/2"	1 1/2"	1 1/2"	MOEN	8215	1/2"	1/2"	CULTURED MARBLE TOP BY CABINET MANUFACTURER WITH MOEN 8215 OR DELTA 2529LF-LGHDF 4" CENTERS FAUCET WITH WRISTBLADE HANDLES AND GRID DRAIN K-77129-A COMPLETE SINK ASSEMBLY WITH STOPS AND CAST BRASS "P" TRAP. APPROVED EQUALS ONLY.
S-2	COUNTER SINK	Elkay Dayton	D-11515	1/2"	1/2"	1 1/2"	1 1/2"	MOEN	8215	1/2"	1/2"	MOEN OR DELTA 2529LF-LGHDF 4" CENTERS FAUCET WITH WRISTBLADE HANDLES, 5" SPOUT WITH AERATOR, PROVIDE WITH K-7129-A 1-1/4" OFFSET DRAIN WITH OPEN STRAINER, I.P.S. SUPPLIES WITH LOOSE KEY STOPS (2); 1-1/4" INSULATE 1-1/4" WASTE WITH 1/2" ARMAFLEX INSULATION.
S-3	ADA LAVATORY	Kohler	K-2005	1/2"	1/2"	1 1/2"	1 1/2"	MOEN	8215	1/2"	1/2"	WHITE WALL HUNG VITREOUS CHINA ADA COMPLIANT LAVATORY WITH MOEN OR DELTA 2529LF-LGHDF 4" CENTERS FAUCET WITH WRISTBLADE HANDLES, 5" SPOUT WITH AERATOR, PROVIDE WITH K-7129-A 1-1/4" OFFSET DRAIN WITH OPEN STRAINER, I.P.S. SUPPLIES WITH LOOSE KEY STOPS (2); 1-1/4" INSULATE 1-1/4" WASTE WITH 1/2" ARMAFLEX INSULATION.
S-4	MOP SINK	Swan	MS-2424	3/4"	3/4"	3"	2"	SPEAKMAN	SC-5811-RCP	3/4"	3/4"	SWAN OR MUSTEE 63M MOP SERVICE BASIN (24"x24") FLOOR MOUNTED WITH MOP HANGER MODEL NO. MS-2437, VINYL RIM GUARD MODEL NO. MS-2408 AND MOP SINK FAUCET (MT'D @ 36" A.F.F.) MODEL SPEAKMAN SC-5811-RCP WITH FOUR ARM HOLDERS OR EQUAL. INSTALL WATTS LFWCV SWING CHECK VALVES ON EACH OF THE HOT AND COLD SUPPLY LINES.
S-5	SINK	JUST	SL-ADA-2122-A-GR	1/2"	1/2"	2"	1 1/2"	MOEN	8244	1/2"	1/2"	SINK TO BE 4.5" DEEP WITH CENTER DRAIN. MOEN OR DELTA 2171LF-WBHDF WITHOUT SUPPLY SPRAY FAUCET WITH 4" WRISTBAND HANDLES, AND GOOSENECK SPOUT WITH AERATOR. COMPLETE SINK ASSEMBLY WITH STOPS AND CAST BRASS "P" TRAP.
S-6	3 COMPARTMENT SINK	Eagle Group	414-16-3-18	3/4"	3/4"	2"	1 1/2"	T&S BRASS	B-0133-01	3/4"		STAINLESS STEEL WITH TWO (2) 18" DRAINBOARDS (L&R), COMPLETE WITH TWO INCH STRAINERS T&S B-3950 ROTARY WASTE VALVE W/ TWIST HANDLE AND STAINLESS STEEL LEGS (NSF APPROVED). PRE-RINSE UNIT WITH 14" FAUCET. APPROVED EQUALS ONLY.
S-7	PREP SINK			1/2"	1/2"	2"	1 1/2"			1/2"	1/2"	SEE ARCHITECTURAL KITCHEN PLAN FOR SINK AND FAUCET SPECIFICATIONS.
FS-1	FLOOR SINK	Plastic Oddities	PDS-300-T	0"	0"	4"	2"					FLOOR SINK RECEPTOR WITH DOME TOP STRAINER AND 3/4" GRATE. PROVIDE A REDUCER ON THE INDIRECT PIPE ENTERING THE FLOOR SINK TO PREVENT OVERFLOWS AND SPLASHING. FOR A TYPICAL 3" DRAIN FROM A 3 OR 4 COMPARTMENT SINK, PROVIDE A 1-1/2" REDUCER.
SB-1	SUPPLY BOX (WASHING MACHINE)	GUY GRAY	WB-200	1/2"	1/2"	2"	2"					DUO-CLOZ BALL VALVES 1/2" MPT BRASS SWEAT CONNECTION AND 2" TRAPPED STANDPIPE PVC DRAIN. MAKE FINAL CONNECTION TO MACHINE.
SB-2	SUPPLY BOX (DISHWASHER)	GUY GRAY	WB-200	1/2"	1/2"	2"	2"					DUO-CLOZ BALL VALVES 1/2" MPT BRASS SWEAT CONNECTION AND 2" TRAPPED STANDPIPE PVC DRAIN. MAKE FINAL CONNECTION TO MACHINE.
GT-1	GREASE TRAP	SCHIER PRODUCTS	GB3	0"	0"	4"	2"					GREAT BASIN HIGH EFFICIENCY GREASE INTERCEPTOR (HYDRO-MECHANICAL TYPE) POLYETHYLENE TANK WITH TRAFFIC RATED COVERS AND BUILT-IN FLOW CONTROL DEVICE. INTERCEPTOR SHALL BE UNDER SLAB IN KITCHEN IN LOCATION AS SHOWN ON PLAN. CONTRACTOR TO DETERMINE TELEGLIDE RISER SIZE AND MODEL, SIZE BASED ON FIELD CONDITIONS AND LOCAL CODE REQUIREMENTS.
DF-1	DRINKING FOUNTAIN	Elkay	LZSTL8WSLP	1/2"	0"	1 1/2"	1 1/2"					ADA BARRIER FREE TWO LEVEL ELKAY WITH EZH2O BOTTLE FILLER STATION - WALL HUNG UNIT. PROVIDE 1.5" CP CAST IRON TRAP AND ANGLE SUPPLIES WITH LOOSE KEY STOPS.
HB-1	HOSE BIBB	JAY R. SMITH	5609QT	3/4"	0"	0"	0"					FROST-FREE WITH INTERIOR PANEL FOR BLOW DOWN WHERE FREEZING MAY OCCUR. ALIGN WITH PERPENDICULAR WALL AND PROVIDE INTERIOR SHUT-OFF VALVE. COMMON EXTERIOR HOSE BIBBS ACCEPTABLE IN CLIMATES THAT DO NOT HAVE FREEZING WEATHER. ALL HOSE BIBBS SHALL HAVE REMOVABLE KEY AND A VACUUM BREAKER.
HB-2	ROOF HOSE BIBB	JAY R. SMITH	5907	3/4"	0"	0"	0"					NON-FREEZE ROOF HYDRANT WITH CHECK VALVE AND VACUUM BREAKER. 1/8" DIA DRAIN TO BE PIPED TO DRAIN IN MOP SINK IN LAUNDRY ROOM.
RCP-1	RECIRCULATION PUMP	Grundfos	UPS15-35SUC	0"	3/4"	0"	0"					DOMESTIC HOT WATER RECIRCULATION PUMP, SYSTEM LUBRICATED CIRCULATOR, 3 SPEED, 110 WATTS, 115 V, 1 PHASE, WITH AQUASTAT AND 3/4" UNION.
TMV-1	THERMOSTATIC MIXING VALVE	LAWLER MFG	66-80	1"	1"	0"	0"					MIXING VALVE WITH THREE-WAY PROTECTION, TAMPER RESISTANT CONTROL ADJUSTMENT, FULLY ROTATABLE INLETS & OUTLETS, INTEGRAL MOUNTING FLANGE CAST IN THE BODY, ASSE 1017 AND CSA B125.3 CERTIFIED. 1" INLETS & OUTLET. SET VALVE @ 110 DEG F.
TMV-2	THERMOSTATIC MIXING VALVE	WATTS	LFMMV	1/2"	1/2"	0"	0"					THERMOSTATIC MIXING VALVE. INSTALLED UNDER PUBLIC LAVATORY IN ACCESSIBLE LOCATION. SET AT 110 DEG F MAX / 105 DEG MIN
WH-1	WATER HEATER	Bradford White	EF-100T-199E-5N	1 1/2"	1 1/2"	0"	0"					COMMERCIAL POWER DIRECT VENT; 100 GALLONS; 199,999 BTUH INPUT; 97% THERM. EFF.; VENT AND INTAKE TO TERMINATE THROUGH ROOF WITH 4" CONCENTRIC VENT KIT; PROVIDE CONDENSATE NEUTRALIZER KIT (P/N A2123601); SET TANK TEMP TO 140 DEG F.; PROVIDE WITH AMTROL ST-30VC-DD EXPANSION TANK. 235 GPH RECOVERY AT 100 DEG F RISE.
FD-1	FLOOR DRAIN	Plastic Oddities	PHD 822R	0"	0"	4"	2"					HEAVY DUTY ADJUSTABLE DRAIN WITH 5" NICKEL STRAINER WITH ROUND TOP. FLOOR DRAINS SHALL BE FORMED AROUND TO PREVENT CONCRETE FROM TOUCHING AT POURING OF SLAB. FLOOR DRAINS SHALL BE GROUDED AFTER ADJUSTMENT FOR FINISHED FLOOR. APPROVED EQUALS BY ZURN, WADE, WATTS, SOUX CHEF OR JOSAM ARE ACCEPTABLE
FCO-1	FLOOR CLEANOUT	JAY R. SMITH	4025	0"	0"	0"	0"					CLEAN OUT SHALL BE FLUSH WITH FINISHED FLOOR. SHALL BE FORMED AROUND TO PREVENT CONCRETE FROM TOUCHING AT POURING OF PAD AND SHALL BE GROUDED AFTER ADJUSTMENT FOR ELEVATION FOR FINISHED FLOOR AND TO RECEIVE FINISHED FLOOR MATERIALS. APPROVED EQUALS BY ZURN, WADE, WATTS, SOUX CHEF OR JOSAM ARE ACCEPTABLE
GCO-1	2-WAY GROUND CLEANOUT	JAY R. SMITH	4280	0"	0"	0"	0"					2-WAY GROUND CLEAN OUT SHALL BE FLUSH WITH FINISHED GRADE. SHALL BE SET IN 18"x18"x6" CONCRETE PAD AND BE FORMED AROUND TO PREVENT CONCRETE FROM TOUCHING AT POURING OF PAD AND SHALL BE GROUDED AFTER ADJUSTMENT FOR FINISHED GRADE. APPROVED EQUALS BY ZURN, WADE, WATTS, SOUX CHEF OR JOSAM ARE ACCEPTABLE
GCO-2	1-WAY GROUND CLEANOUT	JAY R. SMITH	4280	0"	0"	0"	0"					1-WAY GROUND CLEAN OUT SHALL BE FLUSH WITH FINISHED GRADE. SHALL BE SET IN 18"x18"x6" CONCRETE PAD AND BE FORMED AROUND TO PREVENT CONCRETE FROM TOUCHING AT POURING OF PAD AND SHALL BE GROUDED AFTER ADJUSTMENT FOR FINISHED GRADE. APPROVED EQUALS BY ZURN, WADE, WATTS, SOUX CHEF OR JOSAM ARE ACCEPTABLE
WCO-1	WALL CLEANOUT	JAY R. SMITH	4530	0"	0"	0"	0"					CLEAN OUT SHALL BE FLUSH WITH FINISHED WALL. SHALL BE LOCATED IN ACCESSABLE LOCATION AND PAINTED TO MATCH ADJACENT WALL. APPROVED EQUALS BY ZURN, WADE, WATTS, SOUX CHEF OR JOSAM ARE ACCEPTABLE
TP-1	TRAP PRIMER	JAY R. SMITH	EZE-2698	3/8"	0"	0"	0"					AUTOMATIC TRAP PRIMER VALVE WITH CHROME FINISH. OR APPROVED EQUAL. SEE DETAIL THIS SHEET.
TP-2	TRAP PRIMER	JAY R. SMITH	2699	1/2"	0"	0"	0"					AUTOMATIC TRAP PRIMER VALVE WITH CHROME FINISH. TO BE USED FOR FLOOR DRAINS WHERE A LAVATORY IS NOT NEARBY. OR APPROVED EQUAL. SEE DETAIL THIS SHEET.
BFP-1	BACKFLOW PREVENTER	WATTS	LF009-QT	2"	0"	0"	0"					PROVIDE AT BUILDING SERVICE ENTRANCE. SEE NOTES ON PLAN TO DETERMINE IF LOCATED WITHIN BUILDING OR ON SITE.
BFP-3	BACKFLOW PREVENTER	WATTS	9D	0"	0"	0"	0"					PROVIDE 3/4" AT ICE MACHINE AND 1/2" AT CONVECTION OVEN.

PRIMROSE SCHOOL
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Date	Description	No.
	CONSTR. DOC. & REVISIONS	



Professional of Record:
Michael C. Grapperhaus
LICENSE No: 56692
EXP. DATE: 9/30/23

Drawn/Checked **BAM / MCG**
Project Number **2202640**
Bid Date **--/--**
Permit Date **7/10/23**
For Construction **--/--**

DIVISION 16 - ELECTRICAL

SECTION 16050 - BASIC MATERIALS AND METHODS

PART 1 - GENERAL

- 1. Scope of Work: Furnish all labor, materials, tools, supplies, services and equipment necessary to complete the electrical work indicated on the drawings and hereinafter specified.
- 2. Codes and Ordinances: All work shall conform to all regulations and codes of the various departments of the local, state and/or national authorities having jurisdiction and in accordance with their latest governing rules and regulations, the utility, and with the latest edition of the National Electrical Code, NFPA 70.

PART 2 - PRODUCTS

- 1. Wiring:
 - a. Wiring shall be installed in concealed thin wall electrical metallic tubing, except conduit outdoors or in slab shall be rigid galvanized steel. Conduit below grade shall be Schedule 40 PVC. Minimum conduit size shall be 1/2 inch. NMC & MC cable with grounding conductor may be used if allowed by any authority having jurisdiction and accepted by Franchisee as alternate branch wiring system in accordance with NEC 330 & 334.
 - b. Equipment connections shall be made utilizing flexible metal conduit for interior use and lightweight flexible conduit for exterior use.
 - c. Conductors shall be copper, 600-volt insulation, type THWN/THHN insulation. Minimum size shall be No. 12 and maximum size 500 KCMIL. All wire No. 10 and larger shall be stranded.
 - d. Wire and cable shall be as manufactured by Anaconda, General Cable, Triangle, Phelps-Dodge or approved equal.
 - e. Label wiring and cable with panel and circuit number at device and panelboard.
- 2. Outlet Boxes:
 - a. Outlet boxes shall be galvanized or sherardized sheet steel boxes, at least one and one-half (1-1/2) inch deep and of sufficient size to accommodate devices and conductors to be installed in same. Boxes shall be mounted flush with finished wall or ceiling. Boxes shall conform to Article 370 of NEC. Boxes shall be Appleton, Steel City, Raco or approved equal.
 - b. Wall switches, receptacles, telephone outlets and special purpose outlet boxes shall be four (4) inch square, flush with finished wall. Single-gang boxes shall only be used where four (4) inch square boxes will not fit.
 - c. Ceiling and wall bracket outlets shall be four (4) inch octagonal, not less than one and one-half (1 1/2) inch deep.
 - d. Receptacles mounted above counters shall be installed to avoid splash boards, cabinets and other equipment.
 - e. Ground Fault Receptacles shall be installed in lieu of standard receptacles in Handicap Toilet, Kitchen, infant kitchenette and exterior areas. Ground fault receptacle shall be located to be readily accessible or contractor shall install GFI circuit breaker.
- 3. Wiring Devices: Shall be Arrow Hart, Pass and Seymour, Hubbell, Sierra or approved equal. Wiring devices shall not be installed until all painting, plastering and other work is finished.
 - a. Wall receptacles: Safety type duplex, grounded, IVORY, 15A, 120V, flush-mounted. Mount at eighteen (18) inches above finish floor, unless otherwise noted.
 - b. Dryer Receptacle: Grounded black, to match cord set furnished with dryer.
 - c. Switches: IVORY, rated 15A, 120/277V.
 - d. Device Plates: Furnish and install wall plates of appropriate type and size for all wall outlets. Plates shall be IVORY, manufactured by device manufacturer. Where two or more devices are shown at the same location, use gang plate. Use weatherproof plates outdoors.
- 4. Panels: Panelboards shall be deadfront, completely enclosed for surface or flush mounting as shown on the drawings. The circuit breaker units shall be molded case type with thermal-magnetic tripping mechanism. Permanent, individual circuit numbers shall be affixed to each breaker or to the panel enclosure and a typewritten directory card shall be provided indicating circuit controlled and located in a card holder on the inside of the door. Each multi-pole breaker in main and/or power panels shall be furnished with a nameplate affixed to the panel enclosure indicating circuit controlled.
 - a. All panelboards bussing and breakers as a unit shall be fully rated to safely interrupt available short circuit currents as established on the drawings or as otherwise required, 10,000 AIC minimum. Panels shall be Eaton "PRL1A" or equal by Square D, Siemens/ITE, Challenger, or GE.
 - b. Safety Switches: The Contractor shall furnish and install fusible or non-fusible switches as indicated on the drawings or as otherwise required by the National Electrical Code. All switches shall be heavy-duty, quick-make, quick-break in a NEMA 1 or NEMA 3R enclosure and shall disconnect all ungrounded conductors. Fuses shall be provided for all fusible switches. Provide dual element, time delay type for motor loads. Provide fuses for HVAC equipment with "let-through" short circuit current at less than 5,000A.
- 5. Electrical Service: Electrical service to the building shall be as shown on drawings and as permitted by local codes and ordinances. Service shall be as indicated on the drawings. Meter equipment shall be furnished and/or installed per local utility company requirements. Extend service feeders from the service equipment to the point of secondary service as directed by local utility company.
- 6. Branch Circuit Wiring: Balance circuits on panel on each phase and neutral as evenly as possible.

PART 3 - EXECUTION

- 1. General: The installation of all systems, devices, components, connections etc., shall be done in a first-class manner and in complete accordance with governing code requirements, manufacturer's recommendations and procedures, and these specifications.
 - a. Contractor shall pay for all permits, fees, inspections and testing.
- 2. Conduit: Generally, conduits shall be concealed. Install exposed only in unfinished areas or where specifically indicated on the drawings. Install exposed conduits parallel with or at right angles to the building walls. All conduits shall be kept at least 6 inches from runs of flues, steam pipes, hot water pipes or other heat producing devices. No bends shall be made with a radius of less than six times the diameter of the conduit, nor more than 90 degrees. Conduits ends shall be cut square, reamed smooth and drawn up tight. All underground site conduit shall be buried a minimum of 36" below finish grade.
 - a. Secure all conduit in place and protect to prevent damage to the work during construction. Plug conduit ends with cork or oakum to avoid filling with foreign matter during construction.
 - b. Circuit layout on the drawings is shown diagrammatically only, and where changes are necessary due to structural conditions, other apparatus or causes, such changes shall be made without any additional cost to the Owner. Offsets in conduits are not indicated and must be furnished as required.
 - c. Provide all empty conduits with a number 14 galvanized fishwire. Provide plastic bushings on ends to protect future cable pulls.
 - d. Conduit bends shall be made with an approved bending device. Where bends do not meet National Electrical Code requirements, the intent of these specifications or conduit manufacturer's standards, the Contractor shall be required to replace such conduit in an approved manner.
 - e. All openings around electrical penetrations through fire resistance rated walls, partitions, floors or ceilings shall be provided with an approved fire seal in UL assembly standards.
 - f. Provide junction and/or pull boxes as required to avoid excessive runs or bends between outlets and/or equipment, sized in accordance with the National Electrical Code.
- 3. Conductors: Conductors shall not be pulled in until conduit runs are complete. No grease, oil, or lubricant, other than powdered soapstone or approved pulling compound shall be used to facilitate the pulling of conductors.
 - a. All conductors shall be color coded in accordance with good wiring practices. The neutral conductor shall have an identifying white covering and the grounding conductor shall have a green covering. Ungrounded conductors shall be color coded in accordance with system voltage.
 - b. Splices, terminations, taps, etc., shall be located in approved junction boxes, cabinets, wiring troughs, outlets, etc., properly sized in accordance with the National Electrical Code.

- 2. System shall be installed to enable remote 24 hour monitoring of the system. Remote station shall be as selected by Owner or as required by local authorities.
- 3. The Fire Alarm Subcontractor shall research all local, state, and national codes. He shall ascertain any additional requirements and identify same at the time of bid to the General Contractor. The Fire Alarm Contractor shall include in his price, at the time of contract, a system that is in full compliance with the codes.
- 4. System shall meet the requirements of NFPA-72 and UL.
- 5. Shop drawings signed and sealed by a licensed Fire Protection Engineer in the state of the project location, will be required to be submitted to the local permitting authorities. Include the following:
 - a. Product data sheets and equipment description.
 - b. Complete sequencing of operations and functions.
 - c. List of all zones.
 - d. Component wiring diagrams.
 - e. Standby battery power calculations.
 - f. Operating and maintenance instructions.
 - g. Carbon Monoxide detector & trouble alert.

- a. Provide disconnects for all motors or equipment as indicated on the drawings or as required by the National Electrical Code. Motor or equipment protection shall be in accordance with nameplate data and the National Electrical Code. Coordinate with others and provide over current protection and disconnecting means per actual nameplate maximum over current protection (MOCP).
- b. It shall be understood that this contractor is responsible for providing all necessary switches, fuse protection, overload protection, devices, etc., as may be required, by each piece of equipment under base bid.
- c. Motor starters shall be furnished by others, unless otherwise noted, but installed and connected by this contractor, except such starters indicated as an integral part of the specific equipment. All equipment shall be connected for correct rotation by this Contractor.

- 6. Grounding: The neutral conductor, at point of service only, and metal enclosures of the total wiring system shall be grounded in accordance with the National Electrical Code and as specified herein. The cold water pipe system and concrete footing rebar shall serve as the system ground and shall be connected by means of a ground electrode conductor, sized as indicated on the drawings, or as otherwise required, and connected with an approved ground clamp. The size of cold water pipe shall be as specified by the National Electrical Code and this Contractor shall provide an approved ground jumper around the water meter of equal size to the system grounding electrode conductor. A driven rod(s) supplemental electrode system shall also be established in accordance with these specifications.
 - a. Grounding provisions shall be complete, continuous, in accordance with these specifications and NFPA requirements.
 - b. All grounding electrode conductors shall be bare copper enclosed in galvanized rigid conduit, with an approved bonding bushing at each end, and accessible in accordance with the National Electrical Code.
 - c. Ground clamps shall be the compression type by Kearney, Thomas & Betts, Penn-Union or approved equal.
 - d. All connections to ground rods, building structure or any splice, "T" connection, etc., below grade shall be the exothermically welded type as manufactured by Cadweld or approved equal. All system components shall be supplied by one manufacturer.
 - e. Ground rods shall be 3/4" copper clad encased steel, 10 foot lengths sectional type and driven full length into the ground. Resistance of all electrodes shall be in accordance with the National Electrical Code and additional rods shall be provided as required. Measurements shall be taken during normally dry conditions.
 - f. Various branch circuits shall be equipped with an insulated, green grounding conductor as indicated on the drawings, or as otherwise required. Conduit raceways shall serve as a redundant grounding path as applicable and in accordance with the National Electrical Code.
 - g. All EMT, plastic or flexible conduits shall be provided with a grounding conductor in addition to those indicated. Increase conduit size as applicable.
 - h. Bond all grounding conductors to each of the pull boxes, junction boxes, cabinets and other enclosure through which the circuits pass, unless noted otherwise.

- 7. Wiring Devices: Unless otherwise noted, install wall devices vertically, so that degrees of the same mounting heights will align exactly. Plates shall be plumb and true with all four edges in continuous contact with wall surfaces. Mount receptacles with the ground terminal on bottom. Do not install devices until plastering or other wall finishes are complete. If installed ahead of painting, protect devices from paint spills.
 - a. Outlets at counters shall be installed to avoid conflict with splashboards, upper cabinets and other equipment. The Contractor is responsible for coordinating with the latest elevations, details, sections and the General Contractor and shall adjust mounting heights as directed.
 - b. At receptacle devices where branch circuits feed through to additional outlets, pigtail connections shall be established for the neutral and grounding conductor (as applicable). It shall be possible to remove and/or disconnect any one device without disrupting the neutral or grounding path of another device.

- 8. Supports: All conduits, outlet boxes, pull boxes, equipment, panels, etc., shall be supported adequately in accordance with the National Electrical Code. General support spacing requirements shall be in accordance with the Code unless additional support is needed due to conditions encountered. Additional support shall be provided if so directed by the Architect and/or Engineer at no additional cost if conditions warrant.
- 9. Equipment Connections: Provide electrical connections to all equipment as shown on the drawings or as otherwise required. For equipment provided with portable cords, provide outlets of the proper NEMA configuration. All equipment shall be connected ready for operation in accordance with the manufacturer's recommendations, and these specifications.
 - a. HVAC equipment power wiring shall be furnished and installed by this contractor. Control equipment and control wiring shall be furnished under DIVISION 15 unless otherwise noted. Coordinate exact location of all equipment, devices, outlets, etc. with the mechanical drawings and DIVISION 15 of these specifications.
 - b. Auxiliary systems: Provide devices, outlets, raceways, wiring, etc., for auxiliary systems, i.e. telephone, cable tv, fire alarm, intercom, etc. to the extent indicated on the drawings and as specified in Section 16700.

- 1. Furnish and install all lighting fixtures, complete with lamps, as indicated on schedule and floor plan. Catalog numbers are for basic units. Furnish and install all appurtenances necessary for a complete installation.
- 2. Prior to passing a final inspection the contractor shall produce evidence that the lighting control systems have been tested to ensure that the control hardware is calibrated, adjusted and programmed in accordance with construction documents and manufacturer's instructions (IECC C408.3.1).
- 3. Provide light fixtures as specified in the Light Fixture Schedule on drawings. No substitutions allowed.

- 1. Fixtures shall be LED, uno.
- 2. Provide adequate and substantial supports from structure for lighting fixtures. Do not rely on false or furred ceiling for support.
- 3. Provide shop drawings for lighting fixtures if not exactly as specified on the plans.
- 4. All LED fixtures shall be circuited with a dedicated neutral, shared neutrals is not allowed.

- 1. Fire Alarm System: Design and provide a complete fire alarm system. System shown on the Drawings is diagrammatic. A duly licensed fire alarm contractor shall be responsible for the system. The Contractor shall ensure compliance with national, state daycare licensing requirements and local fire codes, ordinances and regulations. The devices shown on the plans are schematic only and do not represent an engineered design. The Fire Alarm Contractor shall be responsible for the entire Fire Alarm system design and installation. Fire alarm system shall be installed, wired, connected, tested and left in operating condition. Test all components after installation for operation.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
- 2. Contractor shall provide a complete and fully functional intercom system. Verify all components with manufacturer prior to bid.
- 3. All equipment shall be as listed on Sheet A-2.2. All parts shall be compatible with parts specified below.

- 1. Wiring shall be as required by the system manufacturer, with homeruns from all outlets to the main station. Cable shall be continuous and may be attached to trusses. Cable shall not be attached to or laid on light fixtures, diffusers or the ceiling. Install cable at 90-degree angles to electrical conduits and wires.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
- 2. Contractor shall provide a complete and fully functional intercom system. Verify all components with manufacturer prior to bid.
- 3. All equipment shall be as listed on Sheet A-2.2. All parts shall be compatible with parts specified below.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
- 2. Contractor shall provide a complete and fully functional intercom system. Verify all components with manufacturer prior to bid.
- 3. All equipment shall be as listed on Sheet A-2.2. All parts shall be compatible with parts specified below.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
- 2. Contractor shall provide a complete and fully functional intercom system. Verify all components with manufacturer prior to bid.
- 3. All equipment shall be as listed on Sheet A-2.2. All parts shall be compatible with parts specified below.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
- 2. Contractor shall provide a complete and fully functional intercom system. Verify all components with manufacturer prior to bid.
- 3. All equipment shall be as listed on Sheet A-2.2. All parts shall be compatible with parts specified below.

- 1. Intercom system installation shall comply with all governing codes and ordinances enforced by state and local agencies.
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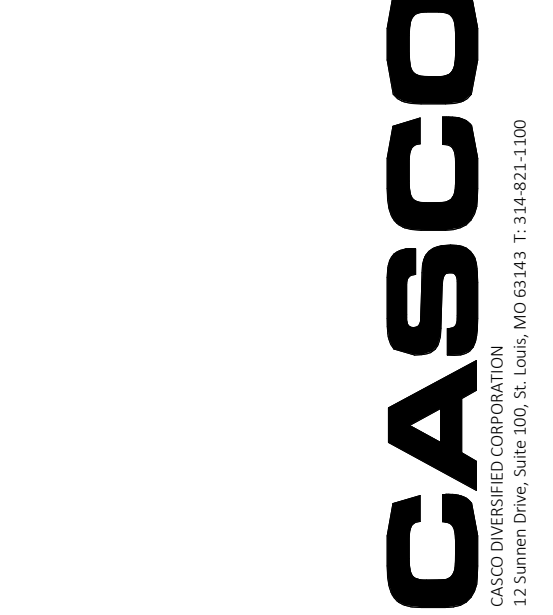
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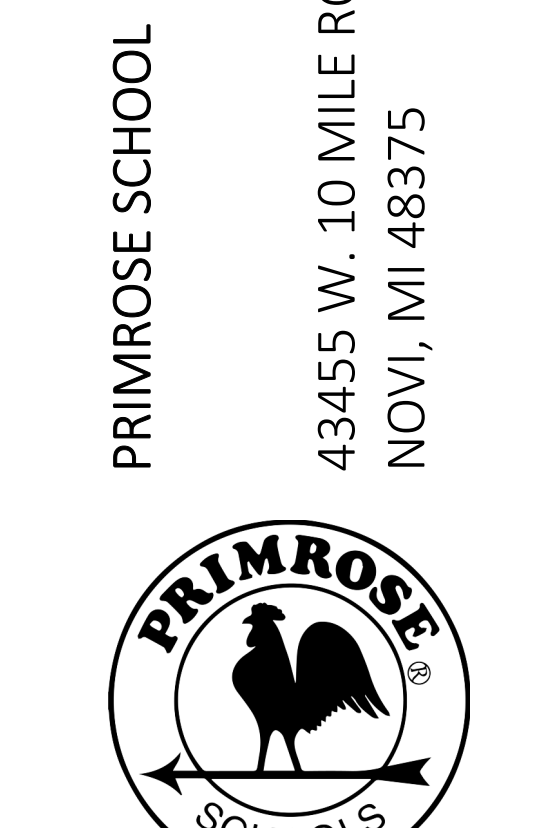
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ELECTRICAL SYMBOLS (NOT ALL SYMBOLS ARE USED)	
	LIGHTING CIRCUITING KEY
	WALL MOUNTED FIXTURE
	2' X 4' LED LIGHT FIXTURE, LAY-IN, NIGHT LIGHT
	2' X 4' LED LIGHT FIXTURE, LAY-IN
	5' X 4' LED LIGHT FIXTURE, CEILING MOUNTED
	5' X 4' LED LIGHT FIXTURE, CEILING MOUNTED, NIGHT LIGHT
	RECESSED DOWNLIGHT
	OUTDOOR FLOOD LIGHTS
	LOW VOLTAGE SWITCH WATTSTOPPER LVSW-101-I, IVORY, MOUNT 48" AFF
	SAME AS ABOVE EXCEPT 3-WAY, IVORY, MOUNT 48" AFF
	SINGLE POLE MOTOR RATED SWITCH, MOUNT 48" AFF
	SINGLE POLE DIMMING SWITCH, WATTSTOPPER RH4FBL3P7C, MOUNT 48" AFF
	DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR, WATTSTOPPER DSW-301-I MOUNT 48" AFF
	CEILING MOUNTED OCCUPANCY SENSOR, LINE VOLTAGE, WATTSTOPPER DT-355
	CEILING MOUNTED OCCUPANCY SENSOR, LOW VOLTAGE, WATTSTOPPER DT-305-U
	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR, WATTSTOPPER BZ-200
	DUPLEX RECEPTACLE, CHILDPROOF AND TAMPER RESISTANT UL RECEPTACLE OR EQUAL, LEVITON T-5320 IVORY OR EQ, MOUNT 18" AFF UNO.
	NEMA 15-20R TWIST LOCK RECEPTACLE
	GROUND-FAULT CIRCUIT INTERRUPTER RECEPTACLE, CHILDPROOF AND TAMPER RESISTANT UL RECEPTACLE OR EQUAL, LEVITON T-7599 IVORY, 18" AFF UNO
	SPECIAL EQUIPMENT OUTLET, MOUNT AT 18" AFF UNO, CONFIRM NEMA CONFIGURATION AND PROVIDE MATCHING PLUG IF NOT PROVIDED.
	QUAD RECEPTACLE, CHILDPROOF AND TAMPER RESISTANT UL RECEPTACLE OR EQUAL, MOUNT 18" AFF UNO.
	TELEPHONE OUTLET WITH CABLE (8 WIRE) TO TELEPHONE INTERFACE ON EXTERIOR WALL OF BLDG AS APPROVED BY LOCAL UTILITY, MOUNT 18" AFF UNO
	COMPUTER LINE, PROVIDE CAT 5 WIRE TO ROUTER IN EXP ROOM, MOUNT 18" AFF UNO
	WALL MOUNTED TWIN HEAD BATTERY OPERATED EMERGENCY LIGHT FIXTURE, MOUNT 84" AFF, UNO
	BATTERY POWERED EMERGENCY EXIT LIGHT W/EMERGENCY LIGHT HEADS
	MOTOR
	JUNCTION BOX, SIZE AS REQUIRED
	DISTRIBUTION PANELBOARD
	BRANCH PANELBOARD
	DISCONNECT SWITCH, SIZE AS NOTED
	FIRE ALARM ANNUCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	VOICE EVACUATION CONTROL PANEL
	FA MANUAL PULL STATION, MOUNT 48" AFF
	FA VISUAL STROBE, MOUNT 80" AFF
	FA WALL SPEAKER, MOUNT 80" AFF
	FA SPEAKER & STROBE, MOUNT 80" AFF
	FA HORN AND STROBE, MOUNT 80" AFF
	FA DUCT SMOKE DETECTOR
	FA SMOKE DETECTOR
	FA HEAT DETECTOR
	CARBON MONOXIDE DETECTOR, BRK ELECTRONICS COS120BN, PROVIDE INTRCONNECTION AND WIRE ALL TOGETHER.
	DOOR BELL CHIME, NUTONE FLUSH MTD. LB14WH W/101T (2 REG'D)
	DOOR BELL PUSHBUTTON NUTONE PB12MNH
	INTERCOM STATION, MOUNT 48" AFF
	INTERCOM MASTER
	BRANCH CIRCUIT HOMERUN TO PANELBOARD; ALPHA-NUMERIC NOTATION INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
	TRANSFORMER
	SECURITY PANEL
	ELECTRIC WALL HEATER
SECURITY SYSTEM LEGEND	
	MOTION DETECTOR, MOUNT 84" AFF
	PANIC BUTTON, TIE TO SECURITY SYSTEM, (1) UNDER RECEPTION COUNTER, (1) UNDER OFFICE COUNTER, & (1) IN RESOURCE ROOM NEXT TO HALLWAY DOOR AT 72" AFF, SHALL NOT BE VISIBLE TO THE GENERAL PUBLIC
CHILD CARE FACILITY DEVICES SHALL BE CHILDPROOF AND TAMPER RESISTANT UL RECEPTACLE OR EQUAL TYPE WITH SPECIAL PROTECTIVE COVERS IN AREAS WHICH ARE ACCESSIBLE TO CHILDREN, INCLUDING RECEPTION AREA.	



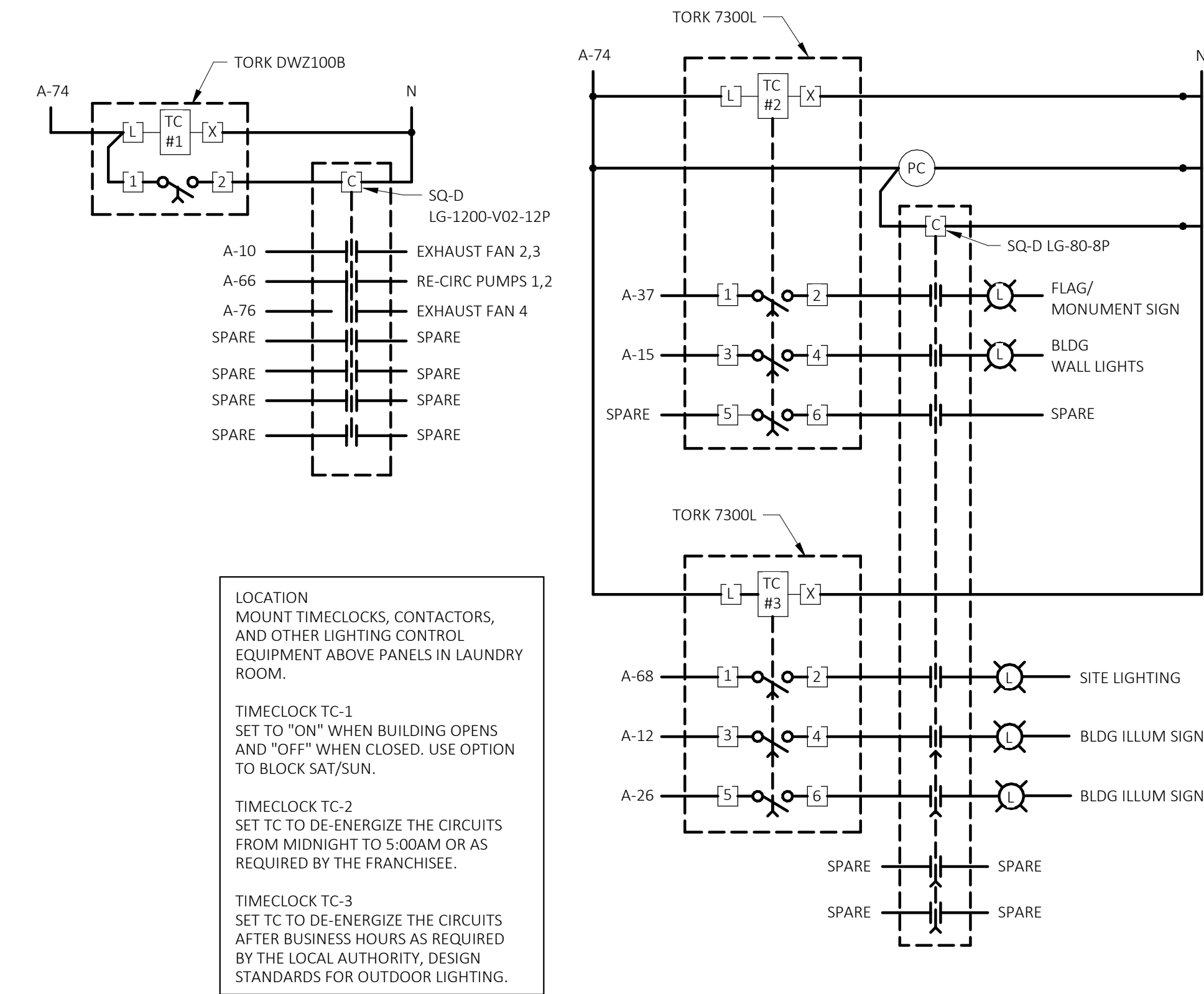
PRIMROSE SCHOOL
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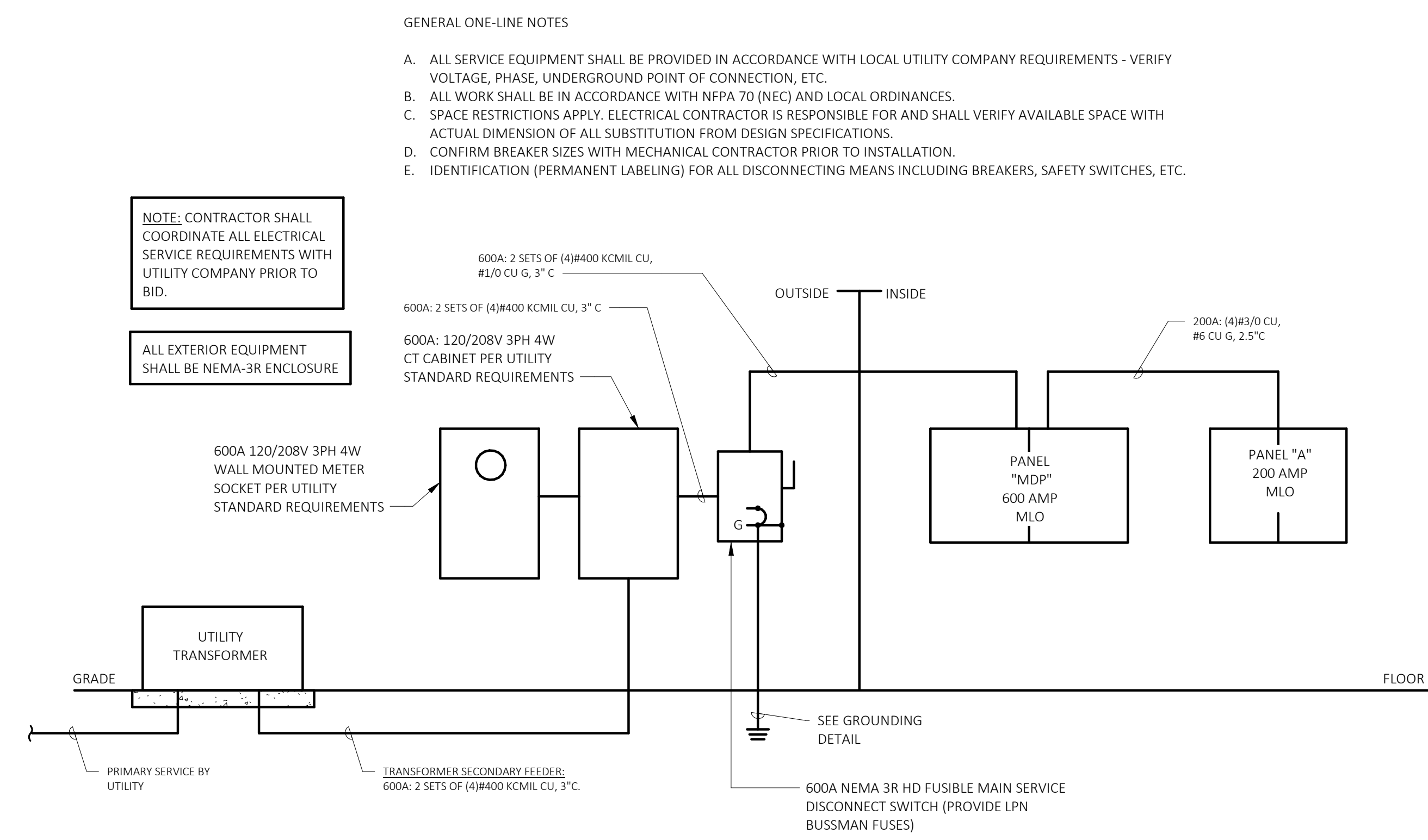
PRIMROSE SCHOOL FRANCHISING COMPANY
3200 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30328 S640

THESE DRAWINGS AND THE DESIGN REPRESENTED HEREIN ARE

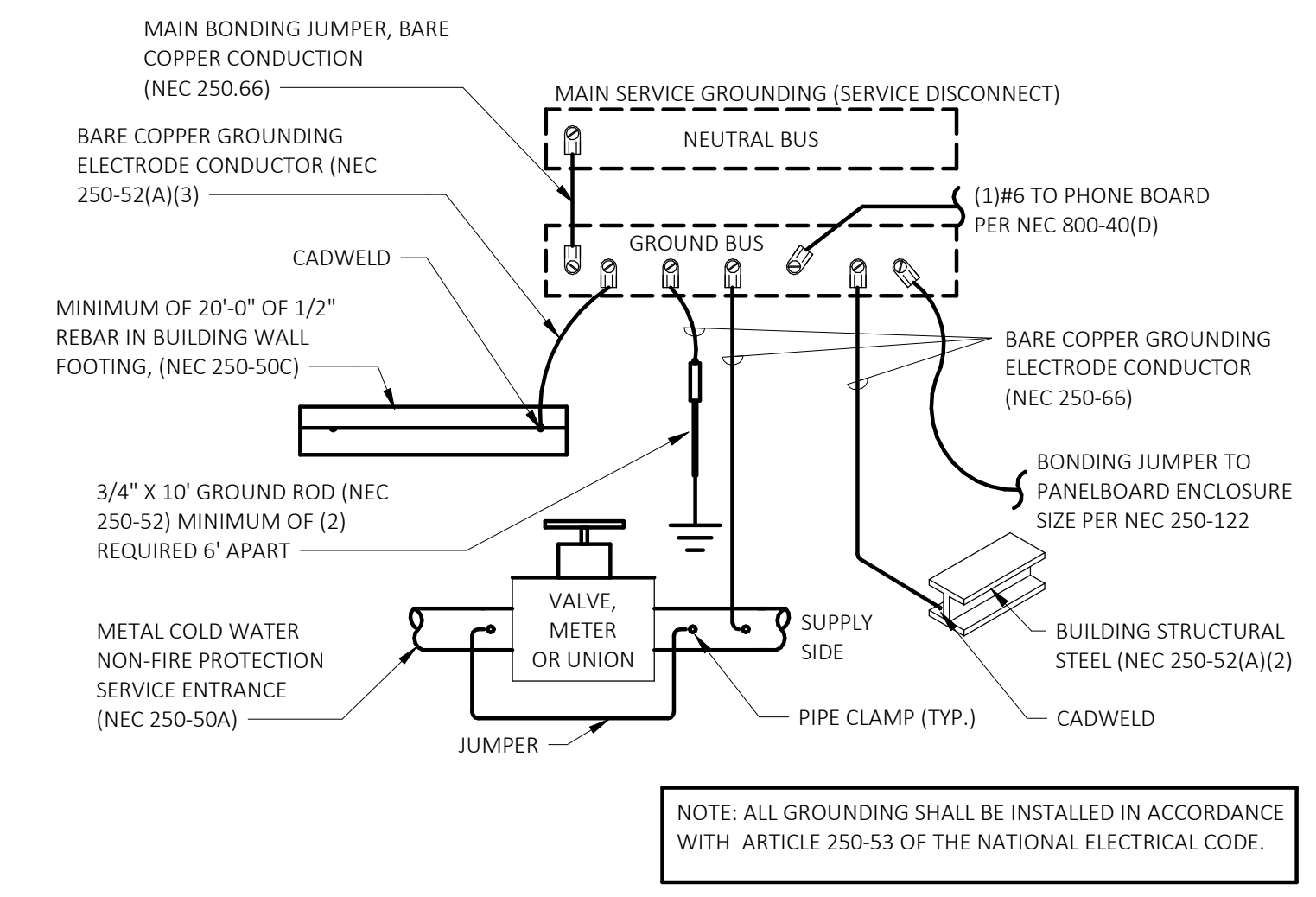
ELECTRICAL EQUIPMENT SCHEDULE												
PLAN MARK	EQUIPMENT SERVED	LOAD	VOLTAGE	PHASE	FED BY	DISC BY	MCA	MOCIP	FEEDER	REMARKS		
DRY-1	DRYER	4410 VA	208 V	1	A	PLUG	21.2 A	30 A	(2)#10,#10G 1/2"	PROVIDE NEMA 14-30R REC.		
DRY-2	DRYER	4410 VA	208 V	1	A	PLUG	21.2 A	30 A	(2)#10,#10G 1/2"	PROVIDE NEMA 14-30R REC.		
DW-1	DISHWASHER	6000 VA	208 V	1	A	EC	28.8 A	35 A	(2)#8,#10G 3/4"	PROVIDE 60A NF DISC MOUNTED UNDER COUNTER.		
EF-1	EXHAUST FAN	700 VA	120 V	1	A	BUILT IN	5.8 A	15 A	(2)#12,#12G 1/2"			
EF-2 & EF-3	EXHAUST FAN	1400 VA	120 V	1	A	BUILT IN	11.7 A	15 A	(2)#12,#12G 1/2"			
EF-4	EXHAUST FAN	700 VA	120 V	1	A	BUILT IN	5.8 A	15 A	(2)#12,#12G 1/2"			
EH 1	ELECTRIC HEATER	4800 VA	208 V	1	A	BUILT IN	23.1 A	25 A	(2)#10,#10G 1/2"			
MCR-1	MICROWAVE	4410 VA	208 V	1	MDP	PLUG	21.2 A	30 A	(2)#10,#10G 1/2"	PROVIDE NEMA 6-30R REC.		
OVN-1	CONVECTION OVEN	5600 VA	208 V	1	MDP	PLUG	26.9 A	30 A	(2)#10,#10G 1/2"	PROVIDE NEMA L6-30R LOCKING REC.		
RTU-1	ROOF TOP UNIT	26950 VA	208 V	3	MDP	BUILT IN	74.8 A	90 A	(3)#3,#8G 1-1/4"			
RTU-2	ROOF TOP UNIT	26950 VA	208 V	3	MDP	BUILT IN	74.8 A	90 A	(3)#3,#8G 1-1/4"			
VAV 1-1	VARIABLE AIR VOLUME	3130 VA	208 V	3	MDP	BUILT IN	8.7 A	15 A	(3)#12,#12G 1/2"			
VAV 1-2	VARIABLE AIR VOLUME	5580 VA	208 V	3	MDP	BUILT IN	15.5 A	20 A	(3)#12,#12G 1/2"			
VAV 1-3	VARIABLE AIR VOLUME	5580 VA	208 V	3	MDP	BUILT IN	15.5 A	20 A	(3)#12,#12G 1/2"			
VAV 1-4	VARIABLE AIR VOLUME	8570 VA	208 V	3	MDP	BUILT IN	23.8 A	25 A	(3)#10,#10G 1/2"			
VAV 1-5	VARIABLE AIR VOLUME	5730 VA	208 V	3	MDP	BUILT IN	15.9 A	20 A	(3)#12,#12G 1/2"			
VAV 1-6	VARIABLE AIR VOLUME	6950 VA	208 V	3	MDP	BUILT IN	19.3 A	20 A	(3)#12,#12G 1/2"			
VAV 1-7	VARIABLE AIR VOLUME	6950 VA	208 V	3	MDP	BUILT IN	19.3 A	20 A	(3)#12,#12G 1/2"			
VAV 1-8	VARIABLE AIR VOLUME	8030 VA	208 V	3	MDP	BUILT IN	22.3 A	25 A	(3)#10,#10G 1/2"			
VAV 1-9	VARIABLE AIR VOLUME	6950 VA	208 V	3	MDP	BUILT IN	19.3 A	20 A	(3)#12,#12G 1/2"			
VAV 1-10	VARIABLE AIR VOLUME	6270 VA	208 V	3	MDP	BUILT IN	17.4 A	20 A	(3)#12,#12G 1/2"			
VAV 1-11	VARIABLE AIR VOLUME	3820 VA	208 V	3	MDP	BUILT IN	10.6 A	15 A	(3)#12,#12G 1/2"			
VAV 2-1	VARIABLE AIR VOLUME	9260 VA	208 V	3	MDP	BUILT IN	25.7 A	30 A	(3)#10,#10G 1/2"			
VAV 2-2	VARIABLE AIR VOLUME	9260 VA	208 V	3	MDP	BUILT IN	25.7 A	30 A	(3)#10,#10G 1/2"			
VAV 2-3	VARIABLE AIR VOLUME	9940 VA	208 V	3	MDP	BUILT IN	27.6 A	30 A	(3)#10,#10G 1/2"			
VAV 2-4	VARIABLE AIR VOLUME	11460 VA	208 V	3	MDP	BUILT IN	31.8 A	35 A	(3)#8,#10G 3/4"			
VAV 2-5	VARIABLE AIR VOLUME	20320 VA	208 V	3	MDP	BUILT IN	56.4 A	60 A	(3)#4,#8G 1"			
WATER HEATER	WATER HEATER	1440 VA	120 V	1	A	EC	12.0 A	15 A	(2)#12,#12G 1/2"			



1
E1.0 TIMECLOCK WIRING DIAGRAM
SCALE: NTS



3
E1.0 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NTS



2
E1.0 GROUNDING DETAIL
SCALE: NTS

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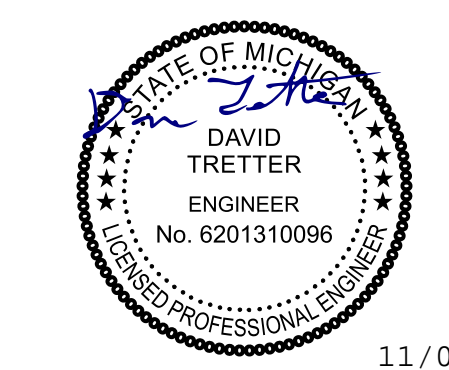


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3300 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640
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Date
11/09/23

CONSTR. DOC. & REVISIONS
Description
1 CODE RESPONSE

No.
1



Professional of Record:
David A. Tretter
LICENSE NO: 6201310096
EXP. DATE: 6/22/25

Drawn/Checked DCC / DAT
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

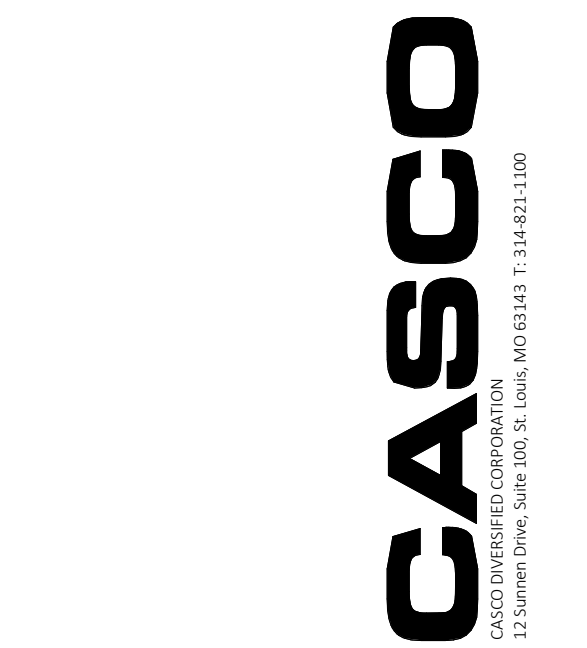
ELECTRICAL ONE LINE & SCHEDULES

E1.0

MOUNT:	SURFACE			120/208 Wye			PHASE: 3			WIRES: 4			PANEL MDP						CAPACITY: 600 A			INT. CAP: 22 KA		
LOCATION:	LAUNDRY ROOM 7						MLO						DEMAND LOAD: 564 A						AV. FAULT: 16.48 KA					
NOTE	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	P...	A	B	C	P...	AMP	DESCRIPTION	NP	MISC	HVAC	REC	LTG	CKT	NOTE		
--	1	4.3	12.9	3.1	1.6	--	PANEL A	200	3	90	RTU-1											2		
--	3	3.1	14.2	4.5	4.9	--																4		
--	5	2.8	16.1	0.0	3.3	--																6		
--	7					--	RTU-2	90	3		3	15	VAV 1-1									8		
--	9					--																10		
--	11					--																12		
--	13					--	VAV 1-2	20	3		3	20	VAV 1-3									14		
--	15					--																16		
--	17					--																18		
--	19					--	VAV 1-4	25	3		3	20	VAV 1-5									20		
--	21					--																22		
--	23					--																24		
--	25					--	VAV 1-6	20	3		3	20	VAV 1-7									26		
--	27					--																28		
--	29					--																30		
--	31					--	VAV 1-8	25	3		3	20	VAV 1-9									32		
--	33					--																34		
--	35					--																36		
--	37					--	VAV 1-10	20	3		3	30	VAV 2-1									38		
--	39					--																40		
--	41					--																42		
--	43					--	VAV 2-2	30	3		3	30	VAV 2-3									44		
--	45					--																46		
--	47					--																48		
--	49					--	VAV 2-4	35	3		3	60	VAV 2-5									50		
--	51					--																52		
--	53					--																54		
GFI	55	2.8				--	OVN-1	30	2		2	30	MCR-1					2.2				56	GFI	
--	57					--													2.2				58	
--	59					--	VAV 1-11	15	3													60		
--	61					--																62		
--	63					--																64		
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--	79					--	PROVISION	--	1													80		
--	81					--	PROVISION	--	1													82		
--	83					--	PROVISION	--	1													84		



MOUNT:	SURFACE			120/208 Wye			PHASE: 3			WIRES: 4			PANEL A						CAPACITY: 200 A			INT. CAP: 22 KA				
LOCATION:	LAUNDRY ROOM 7						MLO						DEMAND LOAD: 146 A						AV. FAULT: 14.0 KA							
NOTE	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	P...	A	B	C	P...	AMP	DESCRIPTION	NP	MISC	HVAC	REC	LTG	CKT	NOTE				
--	1	1.6				--	LTG CLASSROOM D2,D1,C2	20	1														0.4	2		
--	3	1.3				--	LTG CLASSROOM C1, EP3	20	1														1.0	4		
--	5	0.5				--	LTG WARMING KITCHEN	20	1														1.1	6		
--	7		0.2			--	IPAD CHARGING STATION	20	1														8			
--	9	0.6				--	LTG GALLERY	20	1														10	TC		
--	11	1.1				--	REC CLASSROOM A1	20	1													1.2	12	TC		
--	13		0.7			--	REC CLASSROOM A2	20	1														1.2	14		
TC	15	0.2				--	BLDG WALL LIGHTING	20	1														0.9	16		
--	17		0.9			--	REC CLASSROOM B2	20	1														1.2	18		
--	19		1.1			--	REC CLASSROOM EP3	20	1														0.5	20	GFI	
--	21		0.2			--	REC TV CLASSROOM - EXP	20	1														1.2	22	GFI	
--	23		0.7			--	TRB	20	1														0.5	24		
--	25		0.2			--	IRRIGATION	20	1														1.2	26	TC	
GFI	27		1.6			--	ICE MAKER	20	1														1.2	28	GFI	
LO	29				0.3	--	FACP	20	1														1.2	30	GFI	
--	31				0.2	--	INTERCOM	20	1														2.2	32		
LO	33				0.3	--	SECURITY PANEL	20	1														2.2	34		
--	35				0.5	--	RTU REC	20	1														2.2	36		
TC	37	0.5				--	FLAG / MONUMENT SIGN	20	1														2.2	38	--	
--	39		1.2			--	REFRIG CLASSROOM A1	20	1														1.4	40		
--	41		1.2			--	REFRIG CLASSROOM A2	20	1														1.4	42		
--	43		1.1			--	REC CLASSROOM D2	20	1														0.6	44	GFI	
--	45		0.9			--	REC CLASSROOM D1	20	1														1.1	46		
--	47		1.1			--	REC CLASSROOM C2	20	1														0.9	48		
--	49		1.1			--	REC CLASSROOM C1	20	1														0.9	50		
--	51		0.4			--	REC CLASSROOM A1	20	1														1.1	52		
--	53		0.5			--	REC CLASSROOM A2	20	1														1.2	54		
--	55		0.5			--	REC RESOURCE	20	1														0.7	56		
--	57		0.5			--	REC STAFF	20	1														3.0	58	GFI	
--	59		0.5			--	REC OFFICE	20	1														3.0	60	GFI	
--	61				2.4	--	EH 1	25	2														0.3	62		
--	63				2.4	--		--	--														1.4	64		
--	65		0.4			--	REC RECEPTION	20	1														0.4	66	TC	
--	67				0.3	--	FAAP	20	1														0.6	68	TC	
--	69				0.2	--	VOICE EVAC	20	1														0.4	70		
--	71					--	SPARE	20	1														0.2	72		
--	73					--	SPARE	20	1														0.5	74		
--	75					--	SPARE	20	1														0.7	76	TC	
--	77					--	SPARE	20	1																78	
--	79					--	SPARE	20	1																80	
--	81					--	SPARE	20	1																82	
--	83					--	SPARE	20	1																84	



PRIMROSE SCHOOL
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NOVI, MI 48375

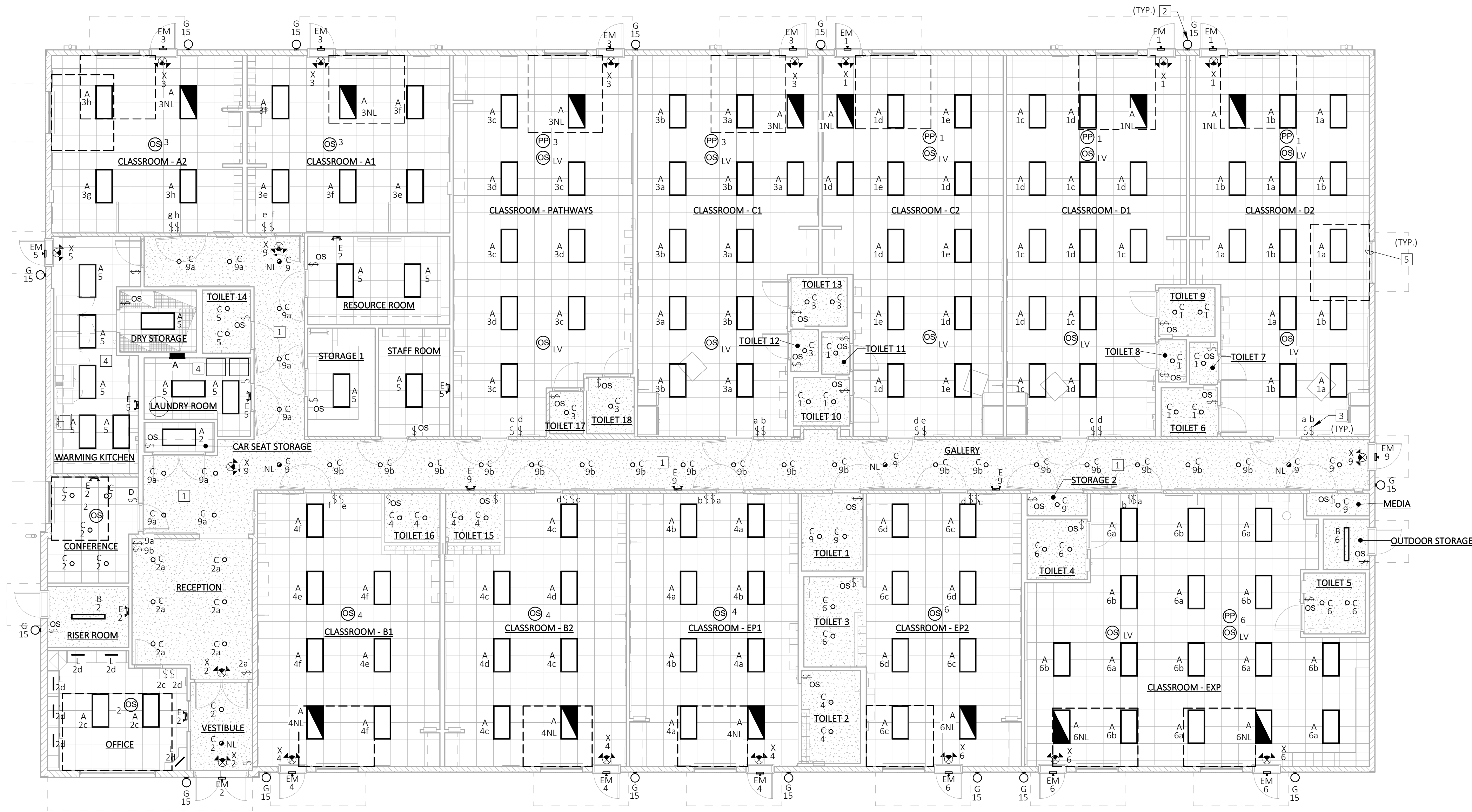
VOLTAGE DROP CALCULATIONS											
PANEL/L	FEEDER				OHMS/K-FT NEC TABLES	LENGTH	Z	LOAD	V-DROP	V	%V-DROP
	AWG	SETS	CU/AL	PH							
OAD	#400	2	CU	3	0.056 OHM/K-FT	252 FT	0.0071 OHM	555 A	3.92 V	208 V	1.88%
MDP	#400	2	CU	3							

NOTES:
1-PHASE V-DROP CALC IS BASED ON NEC TABLE 8, DC RESISTANCE, UNCOATED WIRES. IF #1/0 OR LARGER, USE TABLE 9 DUE TO SKIN EFFECT.
3-PHASE V-DROP CALC IS BASED ON NEC TABLE 9, EFFECTIVE Z AT 0.85 PF, UNCOATED WIRES, STEEL CONDUIT (WORST CASE).

EQUATIONS:
Z (1-PH) = (TABLE 8 OHMS/K-FT) * (K-FT/1000) * (LENGTH) / (SETS) - NOTE: IF #1/0 OR LARGER, USE TABLE 9 DUE TO SKIN EFFECT
Z (3-PH) = (TABLE 9 OHMS/K-FT) * (K-FT/1000) * (LENGTH) / (SETS)
V-DROP = Z * LOAD

VOLTAGE DROPS:
2% MAXIMUM FOR FEEDERS
UP TO 3% MAXIMUM FOR BRANCH CIRCUITS

UT. XFRM FAULT CALC	2202640 LOAD.xlsm
S	

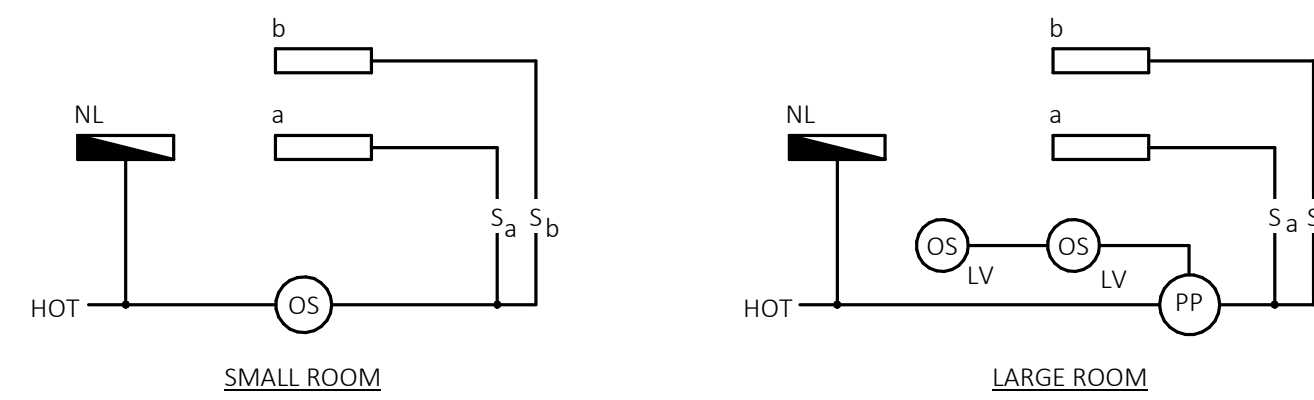


1 LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	LAMP DATA				REMARKS	
			TYPE	LUMENS	COLOR TEMP	VOLTAGE		WATTAGE
A	COOPER	24CGT4535C	LED	4268 lm	3500 K	120 V	39 W	2'x4' RECESSED LED BACKLIT PANEL
B	COOPER	4VT2-LD5-4-DR-UNV-L840-CD1-W-L-U	LED	4000 lm	4000 K	120 V	30 W	VAPORITE 7"W x 48" L LED STRIP LIGHT, SURFACE MOUNT.
C	CONTECH	HOUSING: RL38-ICESA LAMP: LEDDR56FLCCT1	LED	1100 lm	3500 K	120 V	15 W	INTERIOR 6" DIAMETER DOWNLIGHT, RECESSED CEILING MOUNT, ADJUSTABLE COLOR TEMPERATURE.
E	EXITRONIX	LED-90	LED	-	-	120 V	3 W	EMERGENCY LIGHT (90 MIN. BATTERY) SELF-DIAGNOSTIC REMOTE TESTING CAPABILITIES, MOUNT ON WALL WITH TOP OF FIXTURE AT 6" BELOW THE CEILING.
EM	EXITRONIX	MLED2-B-G2-WP	LED	-	-	120 V	3 W	EXTERIOR REMOTE DOUBLE HEAD LAMP, CIRCUIT VIA TYPE X FIXTURE, MOUNT CENTER ABOVE DOOR.
G	HI-LITE	FIXTURE: H-15312-B-119-CGU LAMP: CLR-12W-LED3-30-BCM-M	LED	1500 lm	4000 K	120 V	15 W	EXTERIOR WALL-MOUNT 12" DIAMETER WAREHOUSE STYLE LIGHT
L	AFX	VRAU22WH	LED	865 lm	4000 K	120 V	15 W	22" X 2-3/16" W X 1" D LED SWITCHABLE UNDERCABINET LIGHT, WITH FIELD ADJUSTABLE COLOR TEMPERATURE.
N	RAB	X17XFU60	LED	8372 lm	5000 K	120 V	60 W	GROUND MOUNTED FLOOD LIGHT, FIELD ADJUSTABLE COLOR TEMPERATURE, WITH PHOTOCELL. MOUNT ON GRS CONDUIT EMBEDDED DOWN TO 4" BELOW GRADE WITH 1' DIAMETER, 4" DEEP CONCRETE BASE.
P2	LITHONIA LIGHTING	DSX1 LED P4 40K 70CRI LCCO	LED	11767 lm	4000 K	120 V	125 W	SITE POLE AREA LIGHT, (20FT. POLE W/ 2.5FT BASE), LEFT CORNER CUTOFF, EXTREME BACKLIGHT CONTROL.
P3	LITHONIA LIGHTING	DSX1 LED P4 40K 70CRI T5W	LED	17013 lm	4000 K	120 V	248 W	SITE POLE AREA LIGHT, TYPE 5 WIDE DISTRIBUTION, (20FT. POLE W/ 2.5FT BASE).
P4	LITHONIA LIGHTING	DSX1 LED P4 40K 70CRI T5M	LED	16741 lm	4000 K	120 V	248 W	SITE POLE AREA LIGHT, TYPE 5 MEDIUM DISTRIBUTION, (20FT. POLE W/ 2.5FT BASE).
X	EXITRONIX	VLED-1-WH-EL90-G2-R	LED	-	-	120 V	3 W	SINGLE FACE COMBINATION EXIT/EMERGENCY LIGHT (90 MIN. BACK-UP BATTERY) WITH REMOTE HEAD CAPABILITY FOR TYPE 'EM' LIGHT FIXTURE.

NOTES:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF QUANTITY AND LOCATION OF EXIT SIGNS AND EMERGENCY LIGHTS WITH LOCAL AUTHORITY HAVING JURISDICTION AND MAKING ADJUSTMENTS REQUIRED BY FIRE MARSHAL/AHI
- B. PROVIDE ALL NECESSARY ACCESSORIES, CONNECTORS, HANGERS, END CAPS, ETC FOR A COMPLETE OPERABLE INSTALLATION.
- C. PREFERRED VENDOR: BRYAN BIRDWELL - VILLA LIGHTING SUPPLY, INC - 2929 CHOUTEAU AV, ST. LOUIS, MO 63103 - CELL: 615-319-0984 - DIRECT: 314-633-0546 - OFFICE: 800-325-0963 EMAIL: primroseschool@villalighting.com - WEB SITE: WWW.VILLALIGHTING.COM.



2 OCCUPANCY SENSOR WIRING DIAGRAM
SCALE: NO SCALE

LIGHTING PLAN KEYED NOTES

- 1 NO AUTOMATIC LIGHTING CONTROLS IN CORRIDORS DUE TO SECURITY OF ROOM AND SAFETY OF OCCUPANTS.
- 2 SEE ARCHITECTURAL EXTERIOR ELEVATIONS SHEET A4.0 FOR EXACT LOCATION OF LIGHT FIXTURES.
- 3 MULTI-LEVEL SWITCH SHALL BE PROVIDED FOR EACH ROOM AS SHOWN.
- 4 NO AUTOMATIC LIGHTING CONTROLS IN KITCHEN OR IN LAUNDRY ROOM DUE TO LIFE SAFETY AND ELECTRICAL PANELS.
- 5 DAYLIGHTING ZONE - EXEMPT WHERE THERE IS LESS THAN 150W WITHIN DAYLIGHT ZONE, 50% OR MORE OF LIGHT FIXTURE MUST BE WITHIN THE ZONE TO REQUIRE DAYLIGHTING CONTROLS.

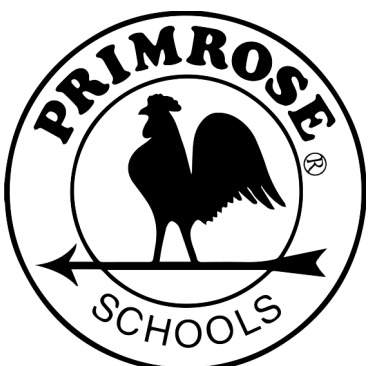
LIGHTING GENERAL NOTES

- A. DEVICE LOCATIONS SHOWN ON THE PLAN SHALL BE PLACED EXACTLY AS SHOWN. REFER ANY QUESTIONS TO THE ARCHITECT.
- B. ALL FIXTURES, WIRE, AND ELECTRIC DEVICES SHALL BE U.L. APPROVED.
- C. ALL OUTSIDE LIGHTING SHALL BE ON PHOTOCELL CONTROL.
- D. ALL BRANCH LIGHTING AND RECEPTACLE CIRCUITS IN EXCESS OF 100 FT TO LOAD CENTER FROM PANEL SHALL BE #10 AWG.
- E. ALL LIGHTING SHALL BE CIRCUITED TO PANEL A.
- F. ALL LED LIGHTS SHALL HAVE DEDICATED NEUTRAL.
- G. ALL CONDUITS THROUGH CEILING AND ALL INTERIOR RECESSED DOWNLIGHTS TO BE SEALED AROUND FIXTURE TO PREVENT LIGHT LEAKS AND AIR PENETRATION INTO CEILING SPACE.

MICHIGAN UNIFORM ENERGY CODE 2015:

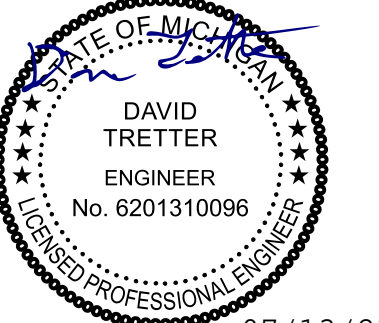
- A. EXCEPTION TO ALL CONTROLS (C405.2)
 - A.A. SECURITY OR EMERGENCY AREAS THAT ARE REQUIRED TO BE CONTINUOUSLY LIT.
 - A.A.A. EXEMPT ROOMS - LAUNDRY, KITCHEN FOR LIFE SAFETY
 - A.B. INTERIOR EXIT STAIRWAYS, RAMP, AND PASSAGEWAYS.
 - A.B.A. EXEMPT ROOMS - MAIN HALLWAY (GALLERIES)
 - A.C. EMERGENCY EGRESS THAT IS NORMALLY OFF.
 - B. OCCUPANCY SENSORS (C405.2.1)
 - B.A. CLASSROOMS, CONFERENCE, BREAK ROOMS, OFFICES, RESTROOMS, STORAGE, JANITOR, WAREHOUSE, AND 300 SQUARE FOOT OR LESS AND ENCLOSED, WAREHOUSE.
 - B.B. FUNCTION (C405.2.1.1)
 - B.B.A. 20 MINUTES TO AUTOMATIC OFF
 - B.B.B. MANUAL ON (VACANCY SENSOR)
 - B.B.B.A. EXCEPTIONS:
 - B.B.B.A.A. CORRIDORS
 - B.B.B.A.B. RESTROOMS
 - B.B.B.A.C. ENTRANCE-LOBBIES
 - B.B.B.A.D. AREAS DUE TO SAFETY OR SECURITY OF THE ROOM.
 - B.B.C. ALL AREAS MUST HAVE LOCAL CONTROLS
 - C. TIME-SWITCH CONTROLS (C405.2.2)
 - C.A. PERTAINS TO AREAS WITHOUT OCC SENSORS
 - C.B. EXCEPTION WITH LIGHT REDUCTION (C405.2.2.2)
 - C.B.A. AUTOMATIC SHUT-OFF WOULD ENDANGER (ELEC ROOMS)
 - C.B.B. NIGHT LIGHTS
 - C.C. FUNCTION (C405.2.2.1)
 - C.C.A. 2-HOUR MANUAL OVER-RIDE
 - C.C.B. OVER-RIDE FOR 5,000 SF MAX
 - C.D. LIGHT REDUCTION CONTROLS OF AT LEAST 50% (C405.2.2.2)
 - C.D.A. REQUIRED EVERYWHERE WITHOUT OCC SENSORS
 - C.D.A.A. EXCEPTIONS:
 - C.D.A.A.A. (1) LUMINAIRE LESS THAN 100W
 - C.D.A.A.B. 0.6W/SF OR LESS
 - C.D.A.A.C. CORRIDORS, EQUIP ROOMS, PUBLIC LOBBIES, ELEC OR MECH ROOMS
 - C.D.A.A.D. DAYLIGHTING ZONES AUTOMATICALLY CONTROLLED.
 - C.E. MANUAL CONTROLS (C405.2.2.3)
 - C.E.A. READY ACCESSIBLE
 - C.E.B. VISIBLE TO LIGHTS OR LABEL SWITCHES
 - D. DAYLIGHTING CONTROLS (C405.2.3)
 - D.A. AUTOMATIC CONTROLS (DAYLIGHT-RESPONSIVE CONTROLS)
 - D.A.A. EXCEPTIONS:
 - D.A.A.A. LESS THAN 150W OF GENERAL LIGHTING
 - D.B. AREA: WIDTH OF WINDOW + 2' ON EACH SIDE BY HEIGHT OF TOP OF WINDOW INSIDE (7'-0")
 - D.B.B. EXEMPT: SPACES WHICH HAVE LESS THAN 150W OF GENERAL LIGHTING IN THEIR DAYLIGHT ZONES
 - E. SPECIFIC CONTROLS (C405.2.4)
 - E.A. DISPLAY AND ACCENT CONTROLLED SEPARATELY
 - E.B. CASES CONTROLLED SEPARATELY
 - E.C. UNDERCABINET LIGHTING CONTROL INTEGRAL (ROCKER SWITCH) OR INDEPENDENT WALL SWITCH
 - F. EXTERIOR CONTROLS (C405.2.5)
 - F.A. ALL - PHOTOCELL
 - F.B. FAÇADE AND LANDSCAPE - PHOTOCELL AND TIMECLOCK (OPEN/CLOSE)
 - F.C. EXIT LIGHTS - 5W PER SIDE MAX (C405.3)

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
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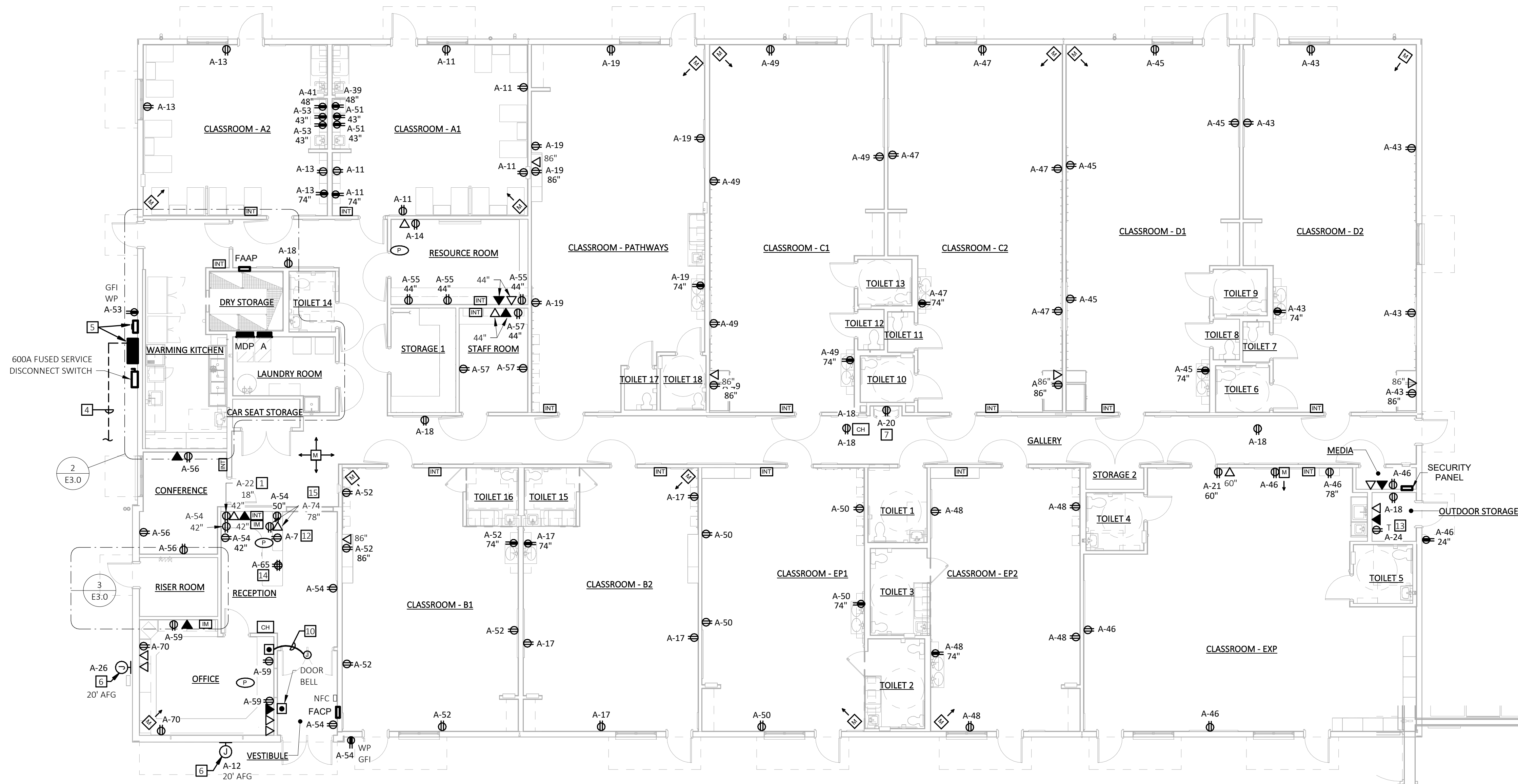


Professional of Record:
David A. Tretter
LICENSE NO: 6201310096
EXP. DATE: 6/22/25

Drawn/Checked DCC /DAT
Project Number 2202640
Bid Date --/--
Permit Date 7/10/23
For Construction --/--

LIGHTING PLAN

E2.0



1 POWER PLAN
 SCALE: 1/8" = 1'-0"
 NORTH

POWER PLAN KEYED NOTES

- 1 PROVIDE RECEPTACLE BEHIND UNDER-COUNTER REFRIGERATOR.
- 2 PROVIDE 4" CONDUIT TO PEDESTAL. COORDINATE REQUIREMENTS WITH TELEPHONE COMPANY SERVICE REPRESENTATIVE PRIOR TO ROUGH-IN. SEE SITE PLAN SHEET E6.0.
- 3 PROVIDE WALL TIMER SWITCH: INTERMATIC #EC210WK OR APPROVED EQUAL, 1800W, 120V SPST WITH RECESSED BOX OR APPROVED EQUAL, SPRING WOUND, 2-HR TIMER. PROVIDE ENGRAVED NAMEPLATE DENOTING "EF-1".
- 4 SERVICE FEEDERS & CONDUITS SEE RISER DIAGRAM SHEET E1.0 AND ELECTRICAL SITE PLAN SHEET E6.0.
- 5 ELEC SERVICE WALL MOUNTED METER AND CT CABINET. CONTRACTOR SHALL VERIFY EXACT LOCATION WITH UTILITY.
- 6 EXTERIOR SIGNS, EC TO PROVIDE WEATHERPROOF JUNCTION BOXES, CONNECTIONS AND QUANTITY REQUIRED. VERIFY EXACT LOCATION AND REQUIREMENTS WITH SIGN MANUFACTURER AND PRIMROSE CONSTRUCTION MANAGER.
- 7 PROVIDE GFI CIRCUIT BREAKER FOR DEVICES BEHIND EQUIPMENT AND NOT ACCESSIBLE PER NEC.
- 8 DISHWASHER PROVIDE A 3/4" CONDUIT WITH PULL STRING TO J-BOX AT 18" AFF WITH BLANK PLATE.
- 9 GARBAGE DISPOSAL PROVIDE A 1/2" CONDUIT WITH PULL STRING TO J-BOX AT 18" AFF WITH BLANK PLATE.
- 10 ROUGH-IN FOR MAGNETIC LOCK WITH RELEASE IN OFFICE.
- 11 PROVIDE 3/4" CONDUIT W/PULL WIRE TO NEAREST LANDSCAPE ISLAND. COORDINATE WITH IRRIGATION INSTALLER.
- 12 PROVIDE RECEPTACLE UNDER RECEPTION DESK FOR IPAD CHARGING STATION.
- 13 PROVIDE 20A-1P TWIST-LOCK RECEPTACLE WITH #6 GROUND.
- 14 PROVIDE QUAD RECEPTACLE MOUNTED INSIDE RECEPTION CABINET. INSTALL AS DIRECTED IN FIELD.
- 15 MONITOR AT END OF HIGH COUNTER, PROVIDE 1" FLEX CONDUIT FROM UNDER THE DESK AT 18" AFF FOR BOX AT 78" AFF FOR MONITOR.

POWER GENERAL NOTES

- A. DEVICE LOCATIONS SHOWN ON THE PLAN SHALL BE PLACED EXACTLY AS SHOWN. COORDINATE WITH INTERIOR ELEVATIONS ON AS SERIES SHEETS.
- B. ALL ELECTRIC OUTLETS IN CLASSROOMS AND HALLWAY SHALL BE INSTALLED 18" AFF TO CENTER OF OUTLET, UNLESS NOTED OTHERWISE.
- C. ALL FIXTURES, WIRE, AND ELECTRIC DEVICES SHALL BE UL APPROVED.
- D. ALL OUTSIDE OUTLETS SHALL BE GFCI RECEPTACLES WITH WEATHER PROOF COVERS, MOUNTED AT 24" AFG, UNO.
- E. ALL APPLIANCES ARE SPECIFIED ON A2.2.
- F. ALARM PANEL AUTOMATIC CALL TYPE TO MEET NFPA 72 - CURRENT EDITION.
- G. ALL WIRING SHALL BE AS SPECIFIED ON DIVISION 16 - ELECTRICAL.
- H. ALL EMERGENCY ALARMS SHALL BE IN COMPLIANCE WITH MINIMUM DESIGN OF STYLE B - NFPA 72 - CURRENT EDITION.
- I. ALL VISUAL AND VOICE ALARMS SHALL COMPLY WITH SECTION 4.28, "ALARMS", OF THE FEDERAL ADAAG.
- J. FIRE PULL STATIONS DESIGN SHOULD TAKE THE EXCEPTION TO IFC SECTION 907.4.1 FOR FULLY SPRINKLED GROUP E OCCUPANCIES.
- K. ALL BRANCH LIGHTING AND RECEPTACLE CIRCUITS IN EXCESS OF 100 FT. TO LOAD CENTER FROM PANEL SHALL BE #10 AWG.
- L. CONTRACTOR SHALL COORDINATE WITH FRANCHISEE FOR THE INSTALLATION OF A SECURITY SYSTEM AS SHOWN. IN ADDITION, THE FRANCHISEE MAY ELECT TO UPGRADE THE ENTRY SECURITY DEVICE TO A MAG LOCK SYSTEM. CONSULT WITH THE FRANCHISEE EARLY ENOUGH TO ALLOW FOR ROUGH-IN TO OCCUR.
- M. PROVIDE SLEEVES FOR LOW VOLTAGE SYSTEM ABOVE NON-ACCESSIBLE CEILING.

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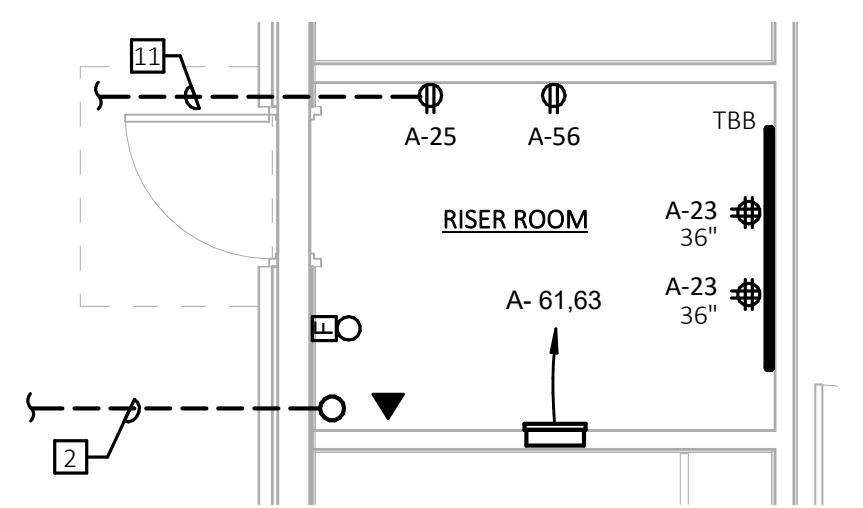
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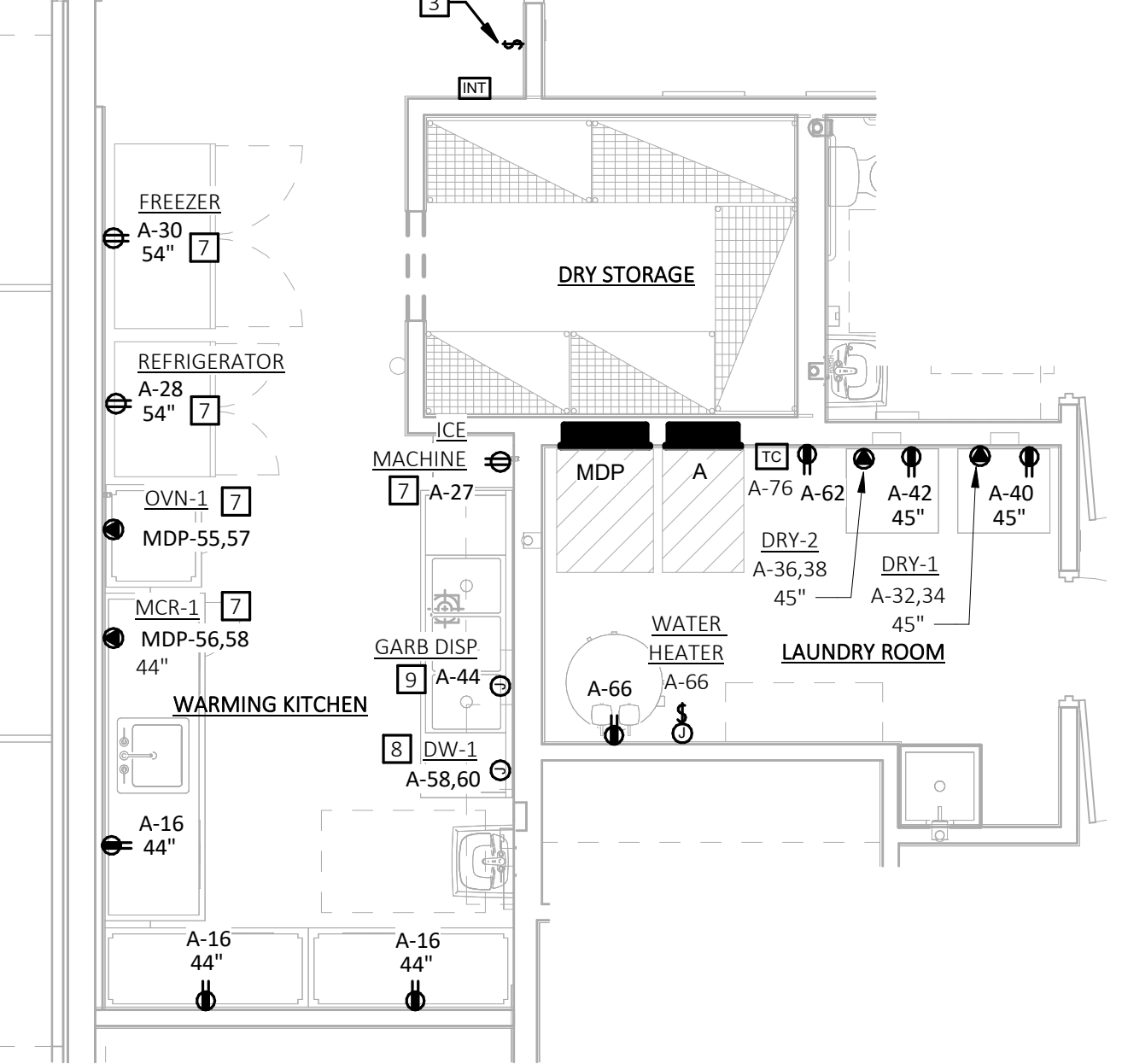


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3 ENLARGED RISER ROOM PLAN
 SCALE: 1/4" = 1'-0"
 E3.0



2 ENLARGED KITCHEN PLAN
 SCALE: 1/4" = 1'-0"
 E3.0

POWER PLAN

E3.0

GENERAL NOTES

- A. ALL WIRING SHALL BE AS SPECIFIED ON DIVISION 16 - ELECTRICAL.
- B. EC SHALL COORDINATE WITH MC.
- C. SEE SHEET E3.0 FOR PANEL SCHEDULE ON ONE-LINE DIAGRAM.



HVAC POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
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No.
1



11/09/23

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HVAC POWER PLAN

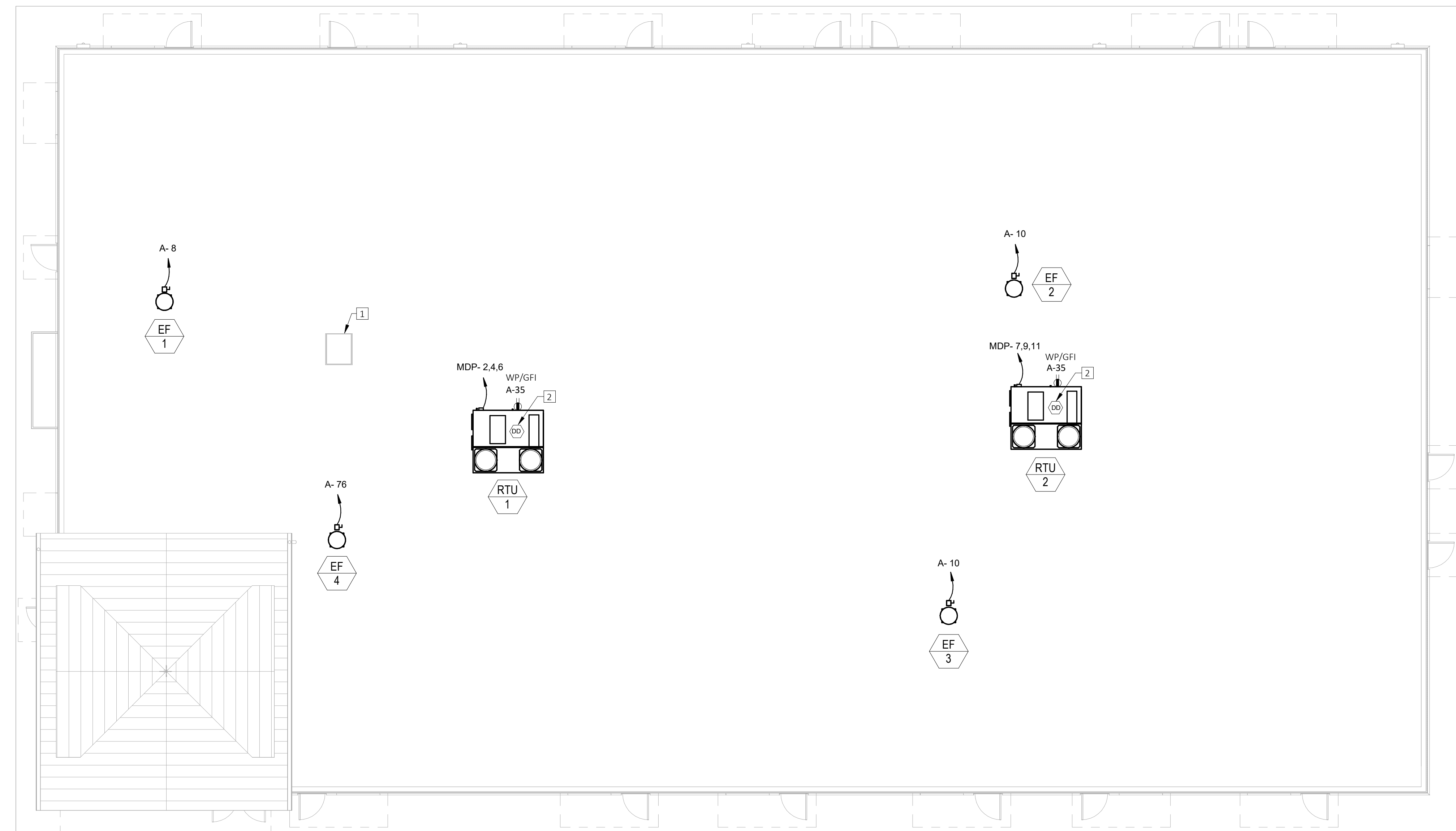
E3.1

HVAC POWER KEYED NOTES

- 1 ROOF ACCESS/MAINTENANCE DOOR SHALL NOT BE BLOCKED BY ANY DUCT, PIPES, WIRES, CONDUITS OR OTHER FIXED ITEMS.
- 2 DUCT DETECTORS, SEE SHEET M2.0 FOR ADDITIONAL INFORMATION.

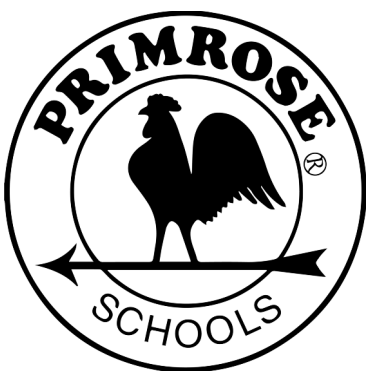
HVAC POWER GENERAL NOTES

- A. ALL WIRING SHALL BE AS SPECIFIED ON DIVISION 16 - ELECTRICAL
- B. ALL BRANCH RECEPTACLE CIRCUITS IN EXCESS OF 100 FT. TO LOAD CENTER FROM PANEL SHALL BE #10 AWG.
- C. WP GFCI SERVICE RECEPTACLES FOR RTU UNITS PROVIDED BY MC AND WIRED BY EC.
- D. EC SHALL COORDINATE WITH MC.
- E. SEE SHEET E1.1 FOR PANEL SCHEDULE AND SHEET E1.0 FOR ONE-LINE DIAGRAM.
- F. NEMA 3R, NON-FUSED DISCONNECT SWITCH PROVIDED WITH ALL RTU'S AND EXHAUST FANS.



ELECTRICAL ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH

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CONSTR. DOC. & REVISIONS	Date
No.	Description

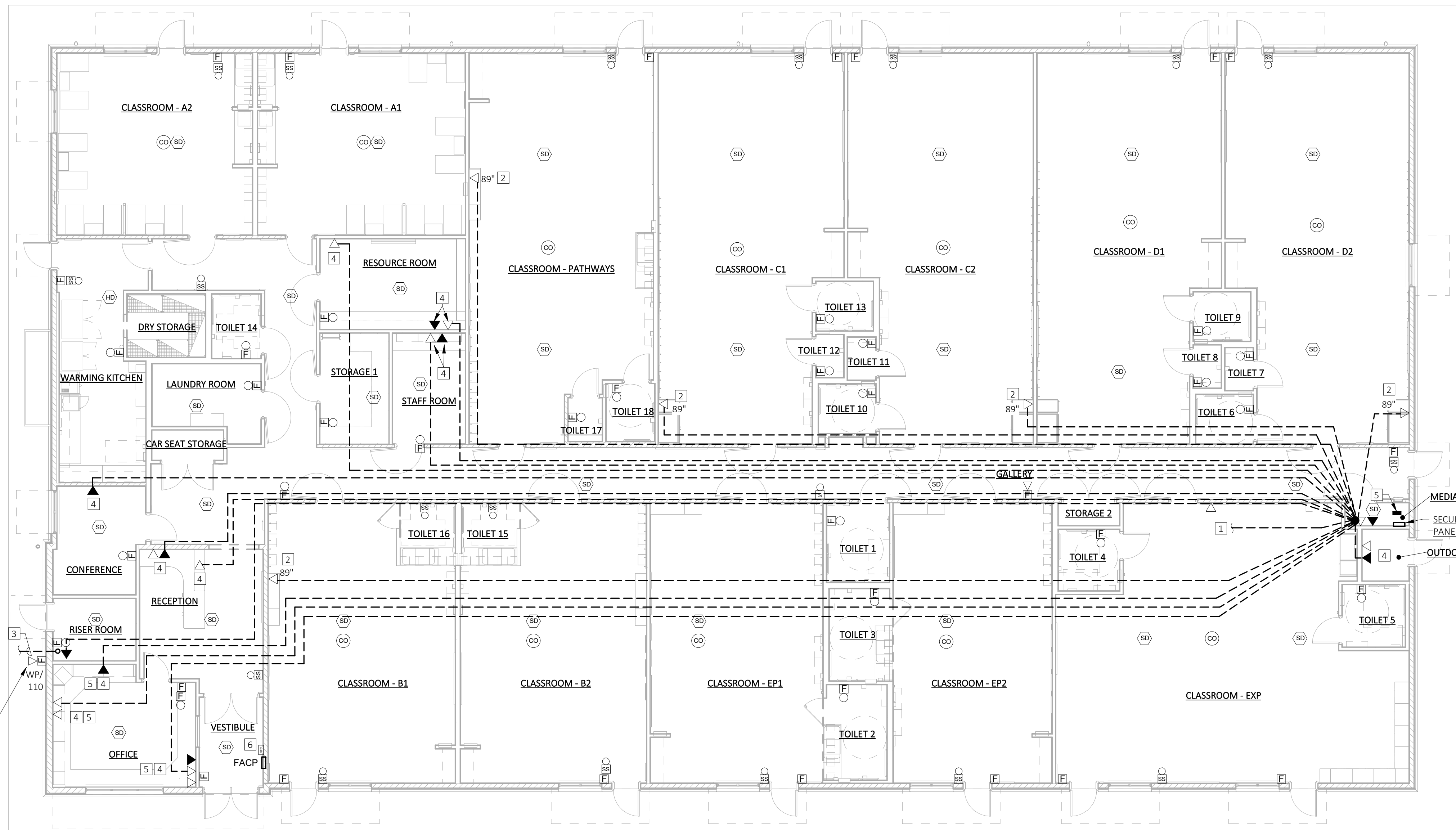


07/13/23
Professional of Record:
David A. Tretter
LICENSE NO: 6201310096
EXP. DATE: 6/22/25

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For Construction	--/--

ELECTRICAL ROOF PLAN

E4.0



COMM GENERAL NOTES

- A. PROVIDE CABLING PER SPECIFICATIONS. TERMINATIONS AND DEVICES PROVIDED BY OTHERS, REFER TO SPECIFICATIONS.
- B. FIRE ALARM DESIGN IS THE RESPONSIBILITY OF A DULY LICENSED FIRE ALARM CONTRACTOR. THE DEVICES SHOWN ON THE PLANS ARE SCHEMATIC ONLY AND DO NOT REPRESENT AN ENGINEERED DESIGN.
- C. ALARM PANEL AUTOMATIC CALL TYPE TO MEET NFPA 72 - CURRENT EDITION.
- D. ALL EMERGENCY ALARMS SHALL BE IN COMPLIANCE WITH MINIMUM DESIGN OF STYLE B - NFPA 72 - CURRENT EDITION.
- E. ALL VISUAL AND VOICE ALARMS SHALL COMPLY WITH SECTION 4.28, "ALARMS", OF THE FEDERAL ADAAG.

COMM PLAN KEYED NOTES

- 1 WIRELESS ROUTER (OFOI) PROVIDE 2" CONDUIT ABOVE CEILING WITH CABLE PER OWNER'S INTERNET PROVIDER TO POINT OF ENTRY.
- 2 POA (OFOI) IN UPPER CABINET PROVIDE DUPLEX RECEPTACLE AND NETWORK JACK/FACEPLATE WITH WIRE IN 3/4" CONDUIT TO ABOVE CEILING, RUN WIRE TO NETWORK SWITCH.
- 3 POINT OF ENTRY FOR TELEPHONE, SECURITY AND INTERNET.
- 4 NETWORK FACEPLATE @18" AFF UNO. RUN 3/4" CONDUIT TO ABOVE CEILING INSULATION. PROVIDE WIRE TO POINT DESIGNATED ON PLAN. LEAVE MIN. 6'-0" OF SLACK ON BOTH ENDS. RUN ALL WIRE IN NEAT MANNER, DO NOT BLOCK ANY WALKWAYS OR PATHS.
- 5 NETWORK SWITCH (OFOI) MOUNT CONCEALED UNDER DESK.
- 6 EXACT MOUNTING LOCATION OF THE VOICE EVACUATION CONTROL PANEL TO BE VERIFIED WITH THE FIRE MARSHALL AND/OR A.H.J.

DEVICE TO BE MOUNTED NEAR "FDC". FIELD VERIFY EXACT MOUNTING LOCATION

1 COMMUNICATIONS PLAN
E5.0 SCALE: 1/8" = 1'-0"

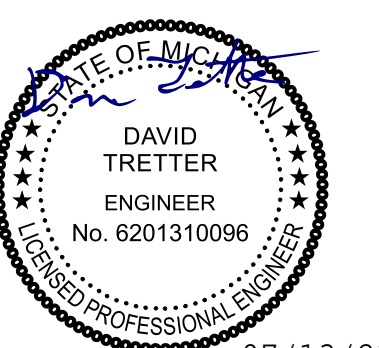
PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



PRIMROSE SCHOOL FRANCHISING COMPANY
3200 WINDY HILL ROAD, SUITE 1200 E
ATLANTA, GEORGIA 30339-5640
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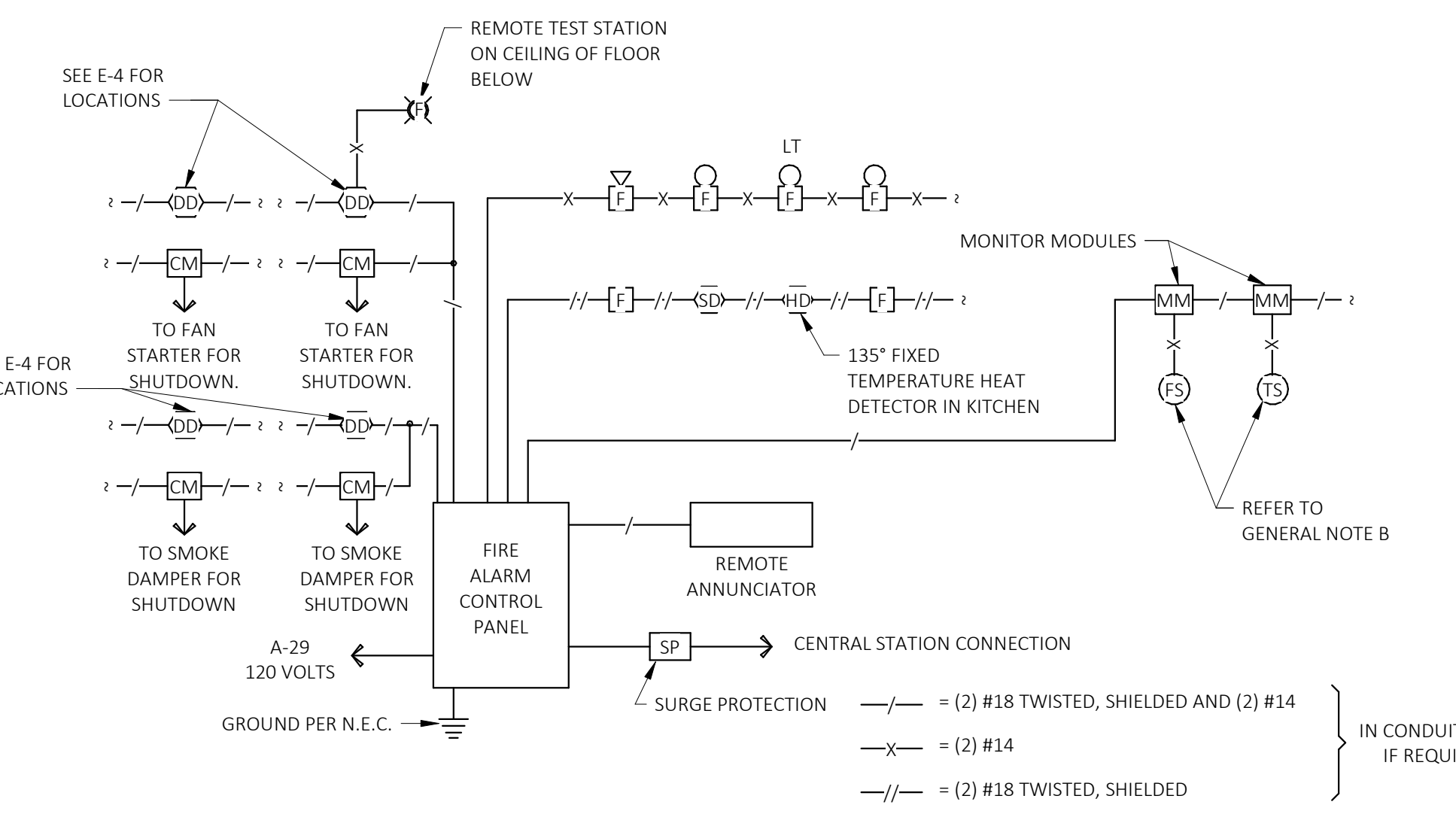


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COMMUNICATIONS PLAN

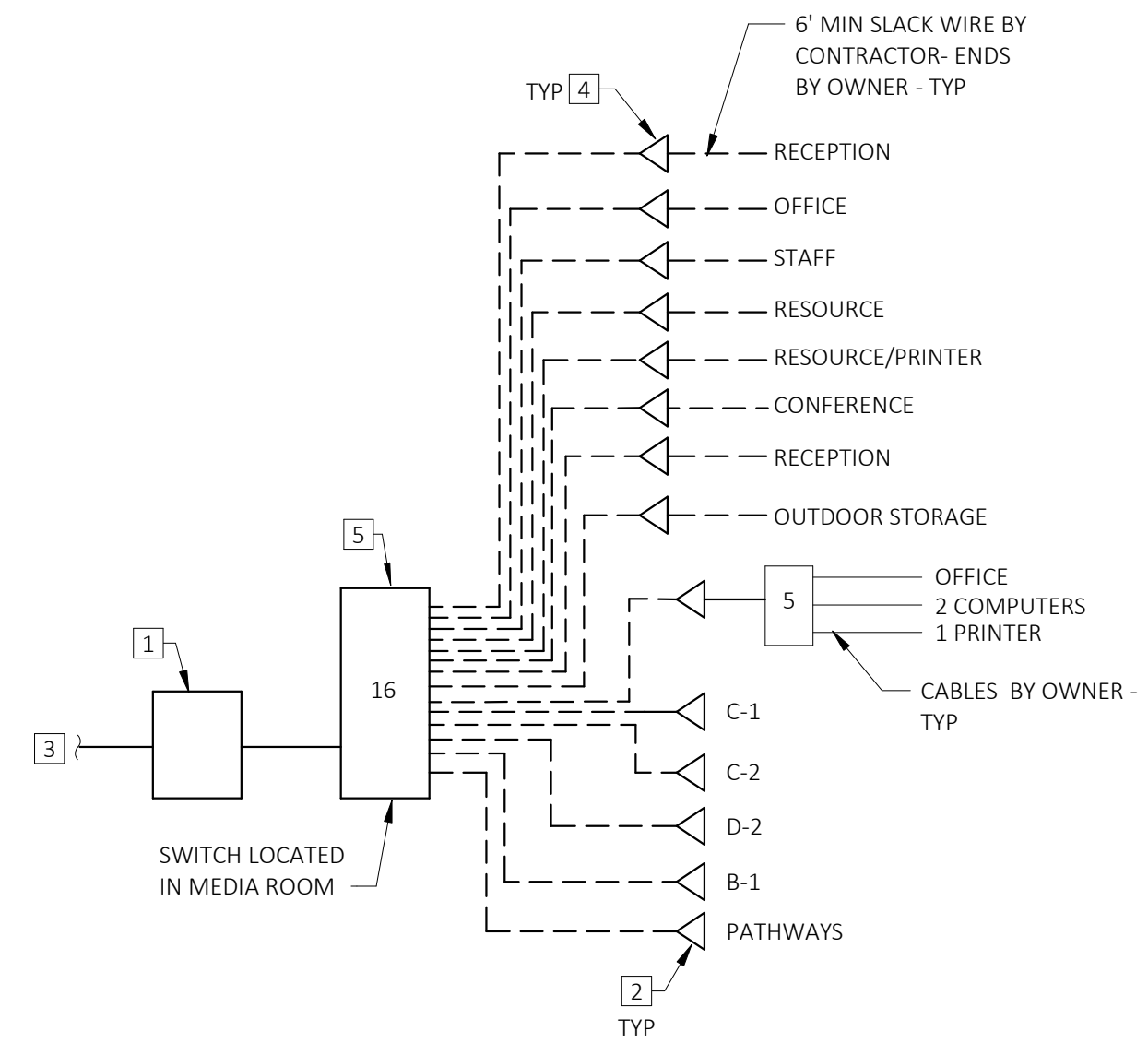
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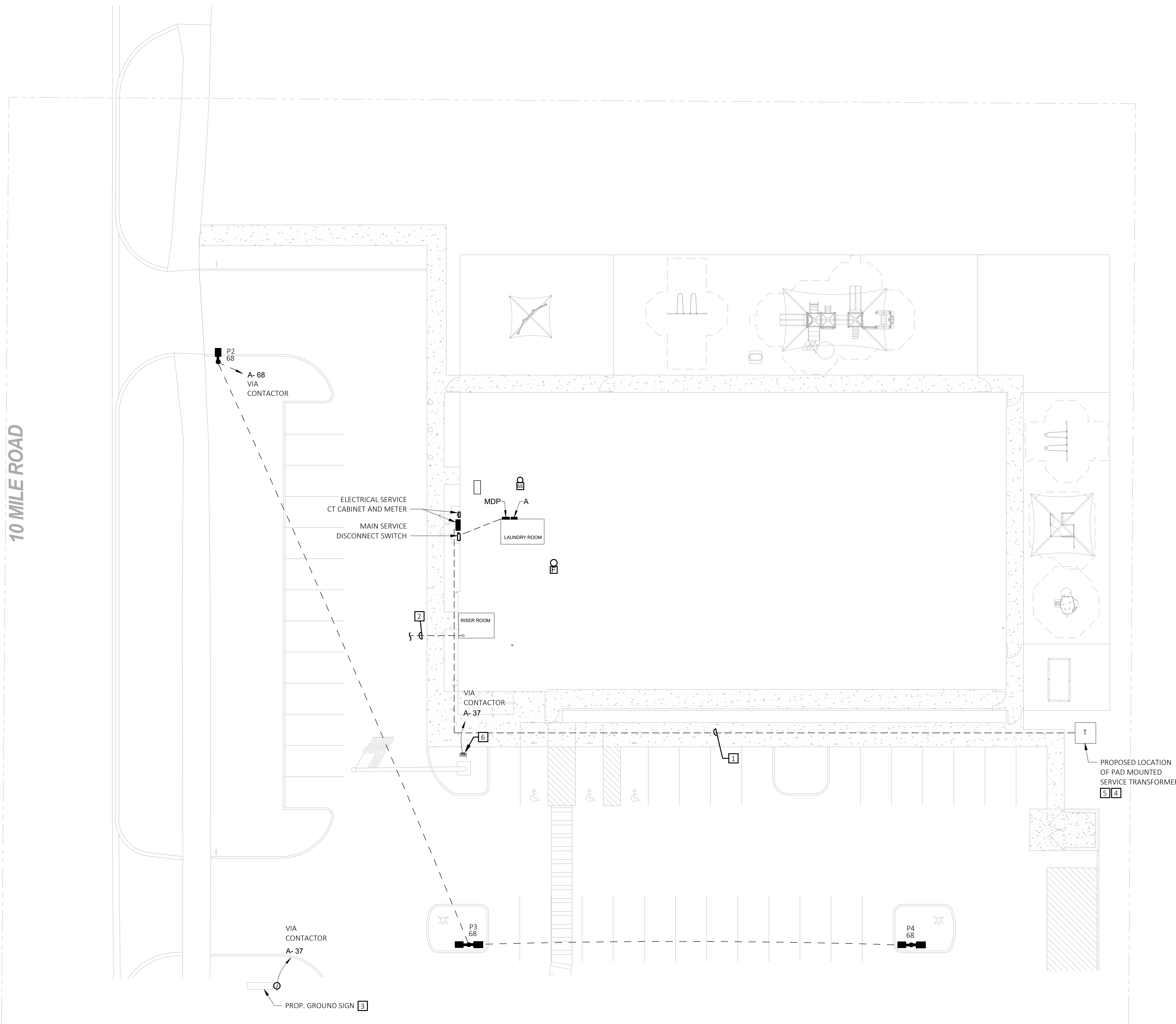
GENERAL FIRE ALARM NOTES

- A. FIRE ALARM DESIGN IS THE RESPONSIBILITY OF A DULY LICENSED FIRE ALARM CONTRACTOR. THE DEVICES SHOWN ON THE PLANS ARE SCHEMATIC ONLY AND DO NOT REPRESENT AN ENGINEERED DESIGN.
- B. WATER FLOW AND TAMPER SWITCHES - REFER TO FIRE PROTECTION DRAWINGS FOR ESTIMATE OF LOCATIONS AND QUANTITY. FINAL TO BE BASED ON SHOP DRAWINGS - INCLUDING AT POST INDICATOR IF SHOWN ON SITE PLANS.
- C. DETECTION SHALL BE LOCATED IN ROOM CONTAINING FIRE ALARM CONTROL PANEL.
- D. WHERE DUCT CONFIGURATION PROHIBITS PROPER LOCATION OF ONE DETECTOR PER UNIT, CONTRACTOR SHALL PROVIDE AND INSTALL MULTIPLE DETECTORS TO PROVIDE ADEQUATE COVERAGE. NO EXCEPTIONS WILL BE TOLERATED FOR FAILURE TO INCLUDE THIS IN BID PRICING.
- E. 120V. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING (RED TAPE) AND BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL" PER NFPA 72.
- F. WIRING SHOWN IS FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL INCLUDE PROPER WIRING IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
- G. PROVIDE & INSTALL SUPPRESSOR TO PROTECT VIA POWER & TELE LINES. DITEK #DTK-FPK1 FIRE PROTECTION KIT WITH 19,500A PEAK SURGE CURRENT CAPACITY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

2 TYPICAL FIRE ALARM WIRING DIAGRAM
E5.0 SCALE: 1/8" = 1'-0"



3 SCHEMATIC WIRING DIAGRAM
E5.0 SCALE: 1/8" = 1'-0"



ELEC SITE PLAN KEYED NOTES

- 1 EC SHALL PROVIDE UNDERGROUND SECONDARY ELECTRIC SERVICE WITH WARNING TAPE 12" BELOW GRADE ALONG ENTIRE ROUTE TO CT CABINET AT EXTERIOR BUILDING WALL. SEE ONE-LINE DIAGRAM ON SHEET E1.0.
- 2 EC SHALL PROVIDE 4" UNDERGROUND CONDUIT FROM TELEPHONE PEDESTAL TO TELEPHONE TERMINAL BOARD IN RISER ROOM. COORDINATE CONDUIT SIZE, ROUTING AND PEDESTAL LOCATION WITH TELEPHONE COMPANY.
- 3 MONUMENT SIGN: PROVIDE WP JUNCTION BOX WITH CIRCUIT FOR INTERNALLY ILLUMINATED SIGN.
- 4 UTILITY COMPANY IS RESPONSIBLE FOR THE TRANSFORMER, PRIMARY SERVICE, PRIMARY CONDUITS AND WIRES TO THE TRANSFORMER. EC IS RESPONSIBLE FOR THE TRANSFORMER PAD AND THE SECONDARY FEEDER FROM THE TRANSFORMER TO THE BUILDING, CT CABINET AND SERVICE METER. CONTRACTOR SHALL PROVIDE MATERIALS AND SERVICE REQUIREMENTS FOR COMPLETE AND OPERATIONAL SYSTEM.
- 5 CONTRACTOR SHALL COORDINATE TRANSFORMER PAD WORK WITH UTILITY.
- 6 EC SHALL PROVIDE TYPE N GROUND MOUNTED FLOOD LIGHT FOR FLAG POLE. LOCATE AND AIM AT FLAG. SEE 2/E1.0 FOR CONTROLS.

ELECTRICAL SITE GENERAL NOTES

- A. **IMPORTANT:** IMMEDIATELY FOLLOWING AWARD OF CONTRACT & PRIOR TO START OF WORK, EC SHALL CONTACT THE POWER COMPANY AND THE TELEPHONE COMPANY TO COORDINATE NEW SERVICES. EC TO VERIFY: LOCATION OF PRIMARY SOURCE, TRANSFORMER, AND SECONDARY FEEDER; LOCATION OF TELEPHONE SOURCE (POLE OR PEDESTAL); AVAILABLE VOLTAGE INCLUDING PHASE; AND METER INSTALLATION REQUIREMENTS. NOTIFY THE ENGINEER AND CONSTRUCTION MANAGER OF ANY DISCREPANCIES.
- B. SITE LIGHTING CIRCUITRY (2#10; #10G; 3/4" CONDUIT, UNO).
- C. REFER TO SHEET S2.1 FOR POLE BASE DETAIL.
- D. SEE LIGHT FIXTURE SCHEDULE ON SHEET E2.0.
- E. UNDERGROUND WIRE TO SIGN LIGHT TO BE U.L. & CODE APPROVED TYPE UF AND CONNECTED TO GROUND FAULT CIRCUIT.

UTILITY CONTACTS
COMPANY NAME: DTE ENERGY CO.
ADDRESS: ONE ENERGY PLAZA
DETROIT, MI 48226
PHONE: 800.477.4747

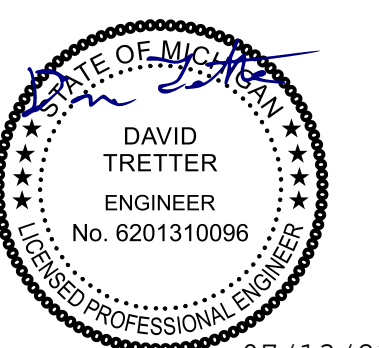
TELEPHONE UTILITY COMPANY
COMPANY NAME: SPECTRUM

PRIMROSE SCHOOL
43455 W. 10 MILE ROAD
NOVI, MI 48375



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1
E6.0
ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"
NORTH

ELECTRICAL SITE PLAN

E6.0