

Bay Arenac ISD Dining Room Addition
and Interior Renovations
Bay City, Michigan

TSSF Architects, Inc.
122 N. Washington Ave.
Saginaw, MI 48607

ADDENDUM NO. 4
Date: August 5, 2026
TSSF Project # 2538

This addendum authorizes the following revisions to the plans and specifications for the above-named project and will be considered fully a part of said documents.

ARCHITECTURAL:

- Item A1:** See revised Cover Sheet T1.0 (re-issued): Signed and sealed as requested.
- Item A2:** See revised sheet A0.1 (re-issued): See revisions shown clouded.
- A. Added (FULLY SPRINKLERED) note to the addition as this was the original intended design.
 - B. Added Allowable Building Height and Area table for the addition.
 - C. Added non-opaque information to energy code table.
 - D. Added note regarding direction and exception for 2-hr fire separation at addition.
- Item A3:** See revised sheet A2.0 (re-issued): Added information on 2-hr. separation and Wall Type "D".
- Item A4:** See revised sheet A6.0 (re-issued): See added wall section 4/A6.0 for 2-hr wall separation.

ELECTRICAL:

- Item E1:** See revised sheet E0.0 (re-issued): Revised Electrical Fixture Schedule
- Item E2:** See revised sheet E1.0 (re-issued): Revised Receptacle Control Matrix and notations on plan.
- Item E3:** See revised sheet E5.0 (re-issued): Added Split-Circuit Receptacle Detail

ATTACHMENTS: Sheets T1.0 A0.1, A2.0, A6.0, E0.0, E1.0, E5.0



DINING ROOM ADDITION AND RENOVATIONS FOR: BAY ARENAC ISD

4155 MONITOR RD.
BAY CITY, MICHIGAN 48706

Architect:

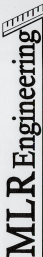


TSSF ARCHITECTS, INC.

ARCHITECTS INTERIORS PLANNERS

122 N. WASHINGTON AVENUE SAGINAW, MICHIGAN

Civil:



MLR Engineering

CIVIL ENGINEERING & CONSULTING SERVICES

134 S. Main Street, Bay City, Michigan 48706
Phone: (989) 567-1100
www.mlr-engineering.com

Structural:



SNYDER & STALEY ENGINEERING, P.L.C.

CONSULTING ENGINEERS

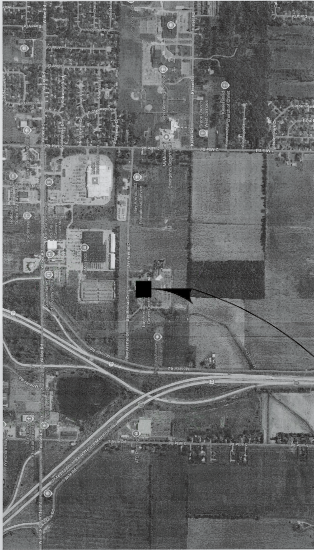
3002 BAY ROAD, SUITE E
BAY CITY, MICHIGAN 48706
PH: (989) 797-1710 FAX: (989) 797-1716

Mechanical / Electrical:



KTS ENGINEERING

491 E. WRIGHT AVE.
SHEPHERD, MI 49883
Ph: (989) 567-1100
info@KTSengineering.com



SITE LOCATION MAP
NO SCALE

DRAWING INDEX:

COVER Title Sheet, Drawing Index, General Notes

CIVIL

- C1.0 Topographical Survey
- C1.1 Demolition Plan
- C2.0 Site Plan
- C2.1 Grading Plan
- C3.0 Detail Sheet

ARCHITECTURAL

- A0.1 Life Safety Plan
- A0.2 General Information Sheet
- A0.3 General Information Sheet
- A0.4 General Information Sheet
- D2.0 Demolition Plan
- A1.0 Architectural Site Plan
- A2.0 Partial First Floor Plan
- A3.0 Schedules, Elevation and Details
- A4.0 Partial Roof Plan
- A5.0 Exterior Elevations
- A6.0 Building Sections
- A7.0 Wall Sections
- A8.0 Interior Elevations and Details
- A9.0 Partial Reflected Ceiling Plan
- FF2.0 Partial First Floor Finish Plan

STRUCTURAL

- S0.1 Specifications and Details
- S1.0 Foundation and Roof Framing Plan
- S2.0 Details

MECHANICAL

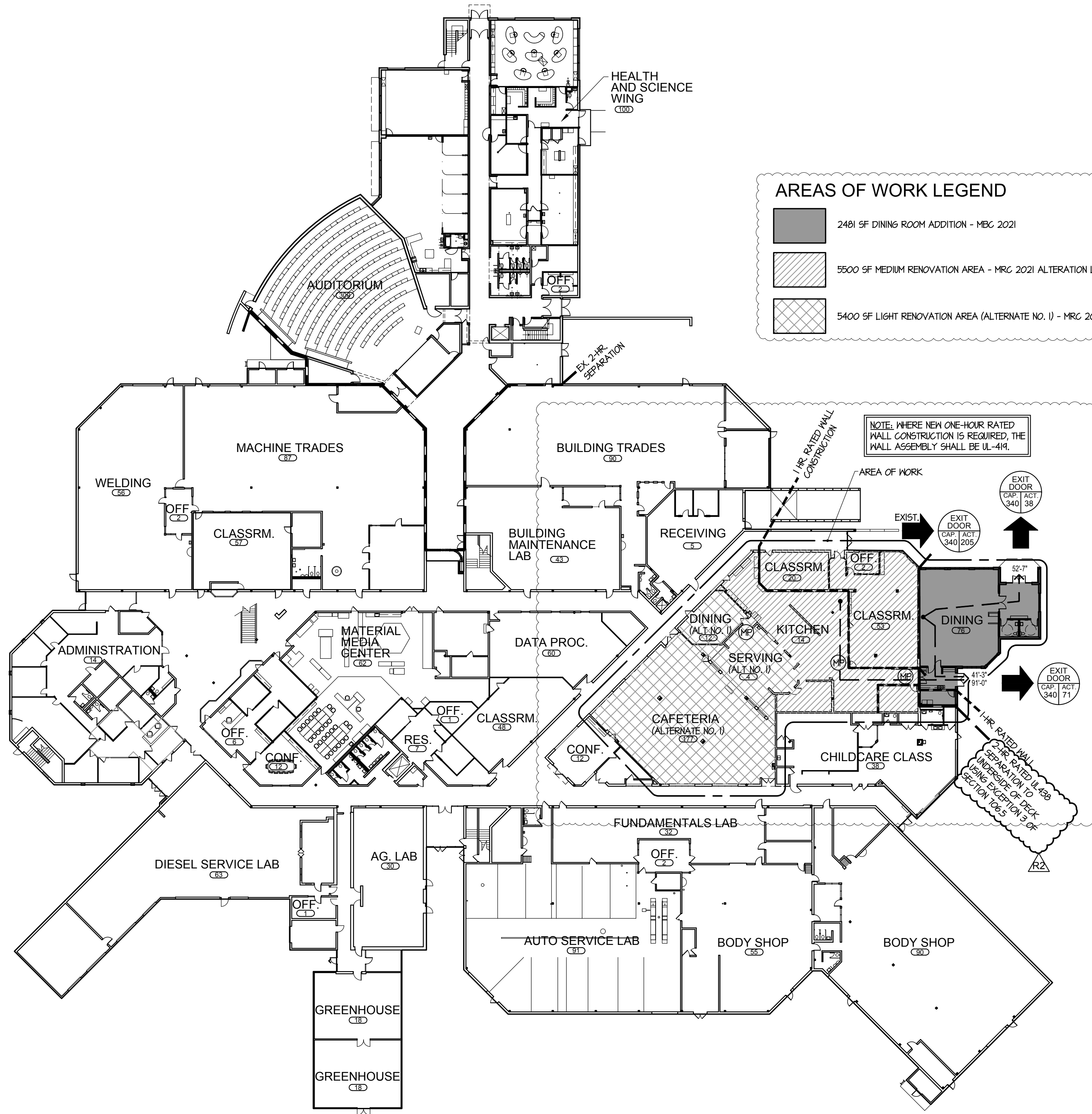
- M0.0 Specifications
- M0.1 Specifications
- MD1 Mechanical Demolition Plan
- M1.0 Main Floor Plan – HVAC
- M1.1 Roof Plan – HVAC
- M2.0 Schedules

PLUMBING

- P0.0 Specifications
- PD1 Plumbing Demolition Plans
- P1.0 Main Floor Plan – Plumbing Underground
- P1.1 Overhead Plumbing Plan
- P1.2 Roof Plumbing Plan
- P2.0 Schedule and Details

- ELECTRICAL
- E0.0 Electrical Specifications and Notes
- ED1 Electrical Power Demolition Plan
- ED2 Electrical Lighting Demolition Plan
- E1.0 Main Floor Power Plan
- E1.1 Roof Power Plan
- E2.0 Main Floor Lighting Plan
- E3.0 Electrical Riser Diagram
- E4.0 Schedules
- E5.0 Schedules





MASTER FIRST FLOOR PLAN
SCALE: 1/32" = 1'-0"

AREAS OF WORK LEGEND

- 2481 SF DINING ROOM ADDITION - MBC 2021
- 5500 SF MEDIUM RENOVATION AREA - MRC 2021 ALTERATION LEVEL 2
- 5400 SF LIGHT RENOVATION AREA (ALTERNATE NO. 1) - MRC 2021 ALTERATION LEVEL 1

NOTE: WHERE NEW ONE-HOUR RATED WALL CONSTRUCTION IS REQUIRED, THE WALL ASSEMBLY SHALL BE UL-419.

APPLICABLE CODES
2021 MICHIGAN BUILDING CODE
2021 MICHIGAN REHABILITATION CODE
2021 MICHIGAN ENERGY CODE
2023 MICHIGAN ELECTRICAL CODE
2021 MICHIGAN MECHANICAL CODE
2021 MICHIGAN PLUMBING CODE
2012 LIFE SAFETY CODE
2016 SCHOOL FIRE SAFETY RULES
FIRE ALARM NFPA 72 2022
ASHRAE STANDARD 90.1-2019 ZONE 5
ICC A117.1 - 2017 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

2021 MICHIGAN BUILDING CODE

BUILDING USE GROUP	E (Educational)
TYPE OF CONSTRUCTION	2B
FIRE SUPPRESSION PROVIDED	FULLY SPRINKLERED
ACTUAL BUILDING HEIGHT	2 Story, 28'-0"
Existing First Floor	128,550 Sq. Ft.
Addition (FULLY SPRINKLERED)	2,481 Sq. Ft.
Area of Renovations	8,227 Sq. Ft.
Existing Second Floor	47,518 Sq. Ft.
Total Area	178,549 Sq. Ft.
OCCUPANT LOAD (PER TABLE 1004.5) (ADDITION ONLY)	76
MAXIMUM LENGTH OF EXIT TRAVEL (PER TABLE 1017.2)	250'-0" MAX.
MAXIMUM LENGTH OF DEAD END CORRIDOR (PER SECT. 1020.5)	50'-0"
MINIMUM WIDTH OF EGRESS COMPONENTS	
EXIT ACCESS CORRIDORS (PER SECT. 1020.3)	MIN 44"
COMMON PATH OF TRAVEL WITH ONE EXIT ACCESS	.OL > 30 = 75
DOORS (PER SECT. 1010.1.1)	
FIRE RESISTANCE RATINGS OF EGRESS COMPONENTS	32" MIN. CLR.
EXIT ACCESS CORRIDORS (PER TABLE 1020.1)	1 HR
STAIRSHAFTS	NOT APPLICABLE
HORIZONTAL EXITS (PER 1024.3)	1 HR
AREAS OF REFUGE	NOT APPLICABLE
FIRE RESISTANCE RATINGS OF FIRE SEPARATIONS	
SHAFTS-OTHER THAN STAIRS	NOT APPLICABLE
STORAGE ROOMS GREATER THAN 100 SQ. FT. (PER TABLE 509)	1 HR.
FIRE RESISTANCE RATINGS OF FIRE SEPARATIONS	
STRUCTURAL ELEMENT (PER TABLE 601)	
PRIMARY STRUCTURAL FRAME	0 HR.
NON-BEARING WALLS - EXTERIOR	0 HR.
NON-BEARING WALLS - INTERIOR	0 HR.
ROOF CONSTRUCTION	0 HR.
BEARING WALLS - EXTERIOR	0 HR.
BEARING WALLS - INTERIOR	0 HR.

ALLOWABLE BUILDING HEIGHT	3 Story, 75'-0"
ALLOWABLE BUILDING AREA	58,000 Sq. Ft. (ADDITION ONLY)

LIFE SAFETY AREA LEGEND

- EXIT 34" EGRESS MINIMUM CLEARANCE
- TRAVEL DISTANCE
- EXIT (w/ NUMBER OF OCCUPANTS)
- ACTUAL OCCUPANT EGRESS COUNT
- 1-HOUR RATED FIRE BARRIER
- 2-HOUR RATED FIRE BARRIER
- FIRE EXTINGUISHER - MULTI-PURPOSE DRY CHEMICAL

OCCUPANT CALCULATIONS

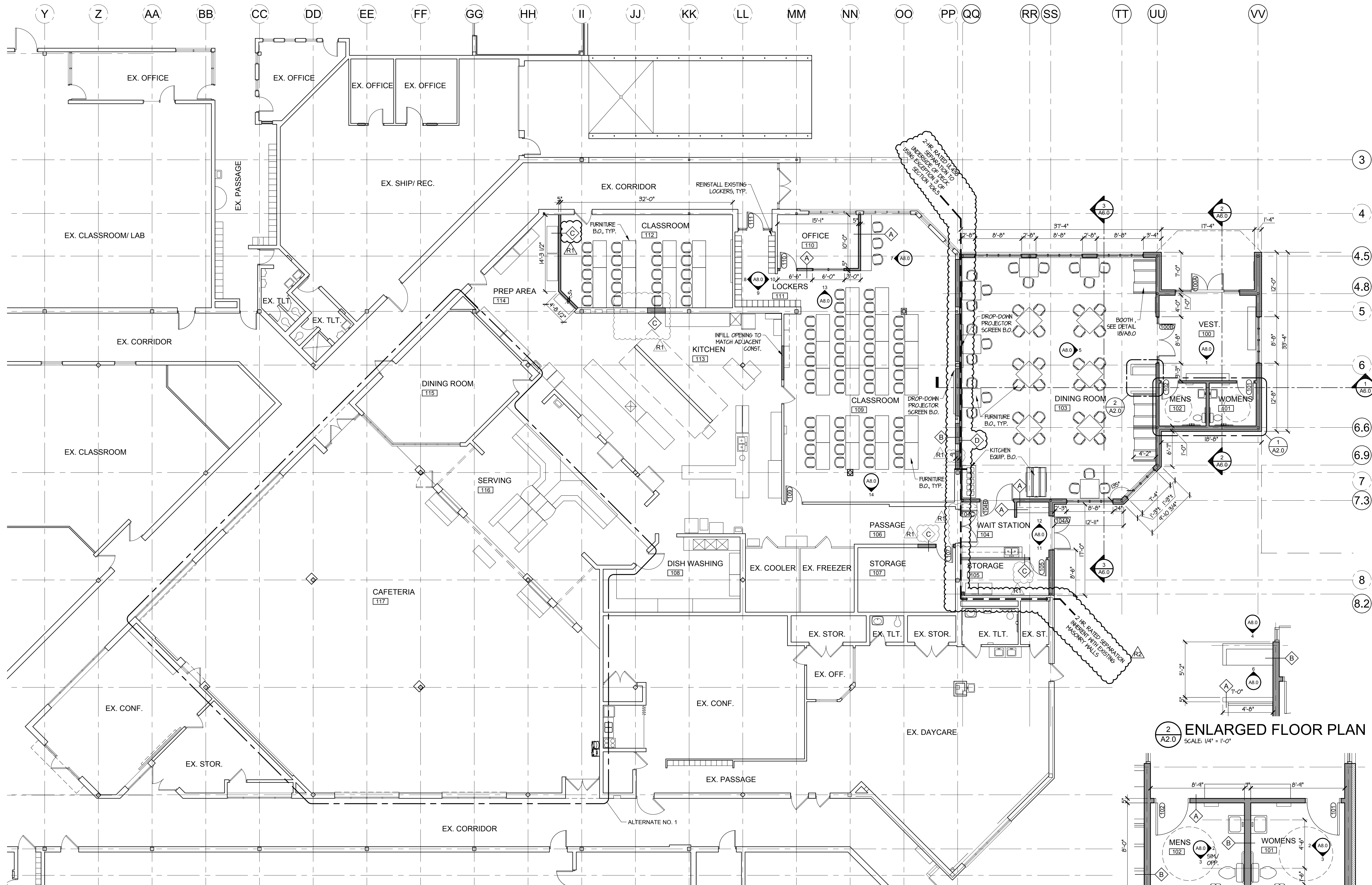
MICHIGAN BUILDING CODE		
FUNCTION OF SPACE	FACTOR	OCCUPANTS
EDUCATION	1:20 NET	73
ASSEMBLY A-2	1:15 NET	91
KITCHEN	1:200 GROSS	14
OFFICE	1:150 GROSS	2
TOTAL PROJECT OCCUPANT LOAD		180

REQUIRED EGRESS WIDTH

TOTAL EGRESS WIDTH REQUIRED:
180 MAX INTERIOR OCCUPANT x 2" = 36"
TOTAL EGRESS WIDTH PROVIDED:
THREE 68" CLEAR DOOR EXIT LEAFS = 204"
NUMBER OF EXITS REQUIRED : 2

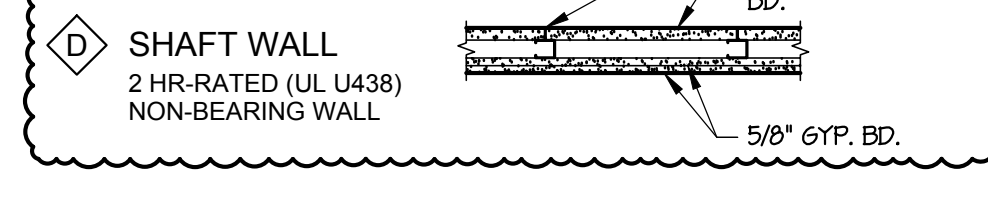
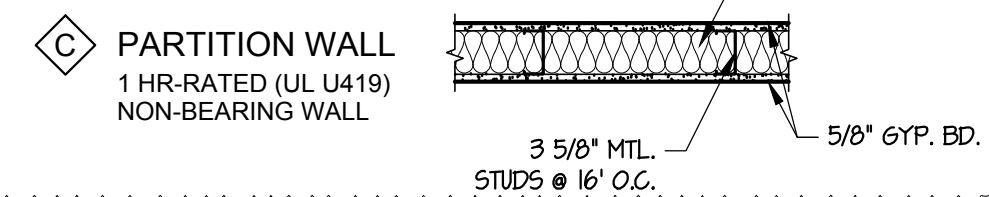
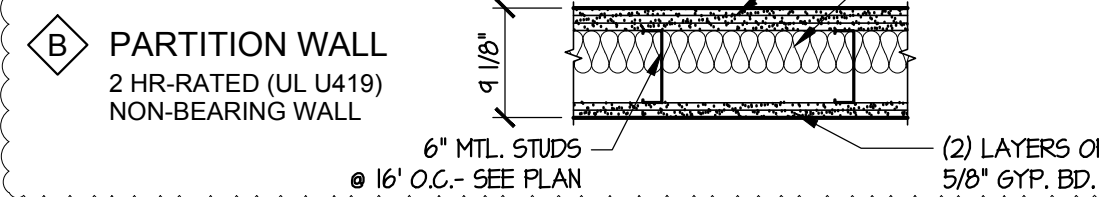
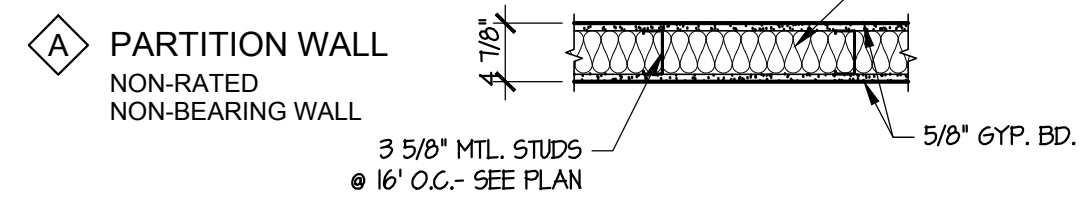
PRESCRIPTIVE METHOD - OPAQUE SURFACES

DESCRIPTION/ NAME	ROOF		WALL			FLOOR		SLAB	DOOR	ONE	HIGH-REFLECTANCE/ EMMITTANCE ROOF	PROPOSED INSULATION	CRITERIA INFORMATION						
	INSULATION ABOVE DECK	METAL BUILDING	ATTIC AND OTHER	MASS		METAL BUILDING	STEEL-FRAMED	WOOD FRAMED/ OTHER BELOW GRADE WALL	MASS	STEEL JOIST				WOOD FRAMED/ OTHER UNHEATED	HEATED	SWINGING	NON-SWINGING	R-VALUE OPTION	U-VALUE OPTION
MEMBRANE ROOF	X											R-32ci	R-30ci						
MASONRY WALL w/ MTL. STUD BACKUP					X							R-15 + R-10ci	R-13 + R-10ci						
METAL PANELS w/ MTL. STUD BACKUP					X							R-15 + R-10ci	R-13 + R-10ci						
SLAB ON GRADE								X				R-15 (24" BELOW)	R-15 (24" BELOW)						
INSULATED H.M. DOOR									X			U-0.37	U-0.37						
PRESCRIPTIVE METHOD - NON-OPAQUE SURFACES														U-0.28	U-0.30				
EXTERIOR WINDOWS																			



WALL TYPES

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

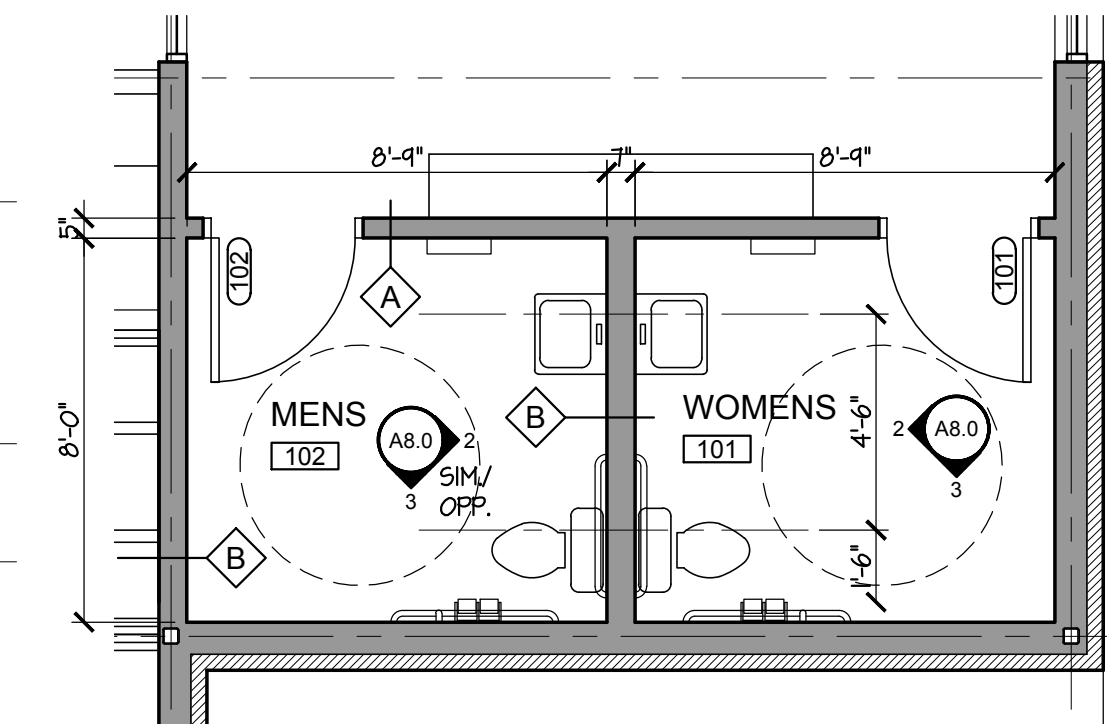


PARTIAL FIRST FLOOR PLAN

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

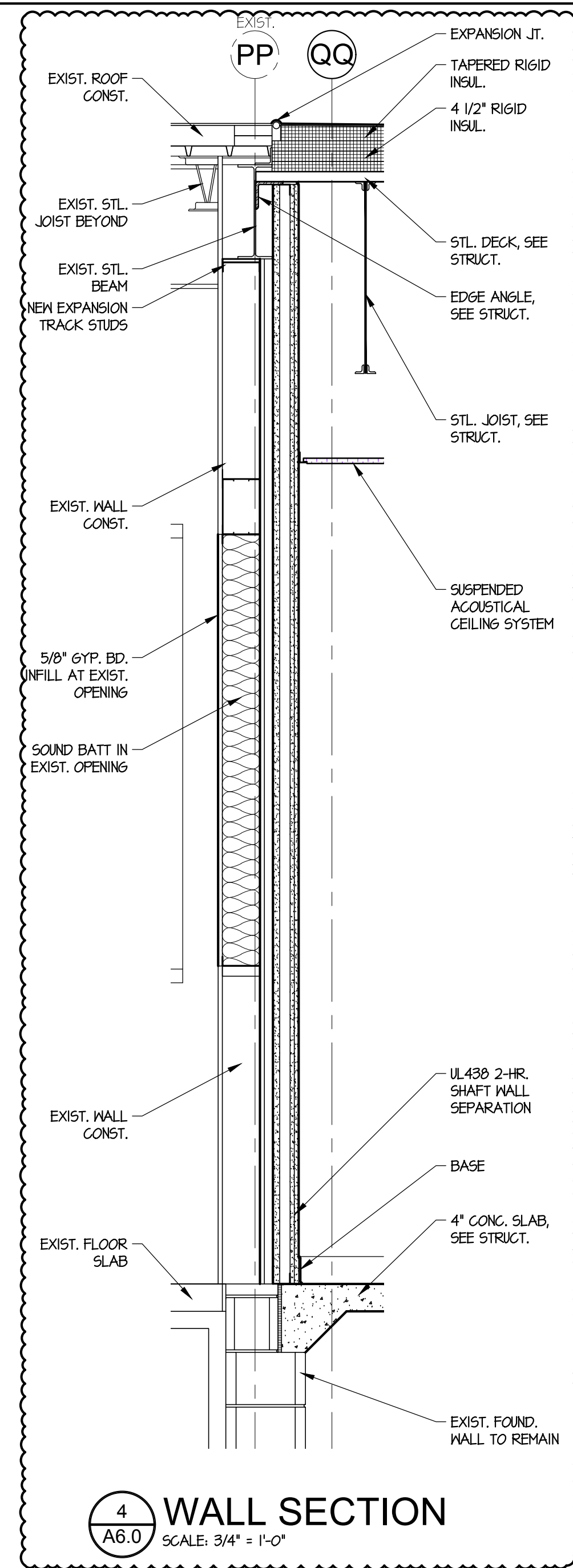
2 ENLARGED FLOOR PLAN

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

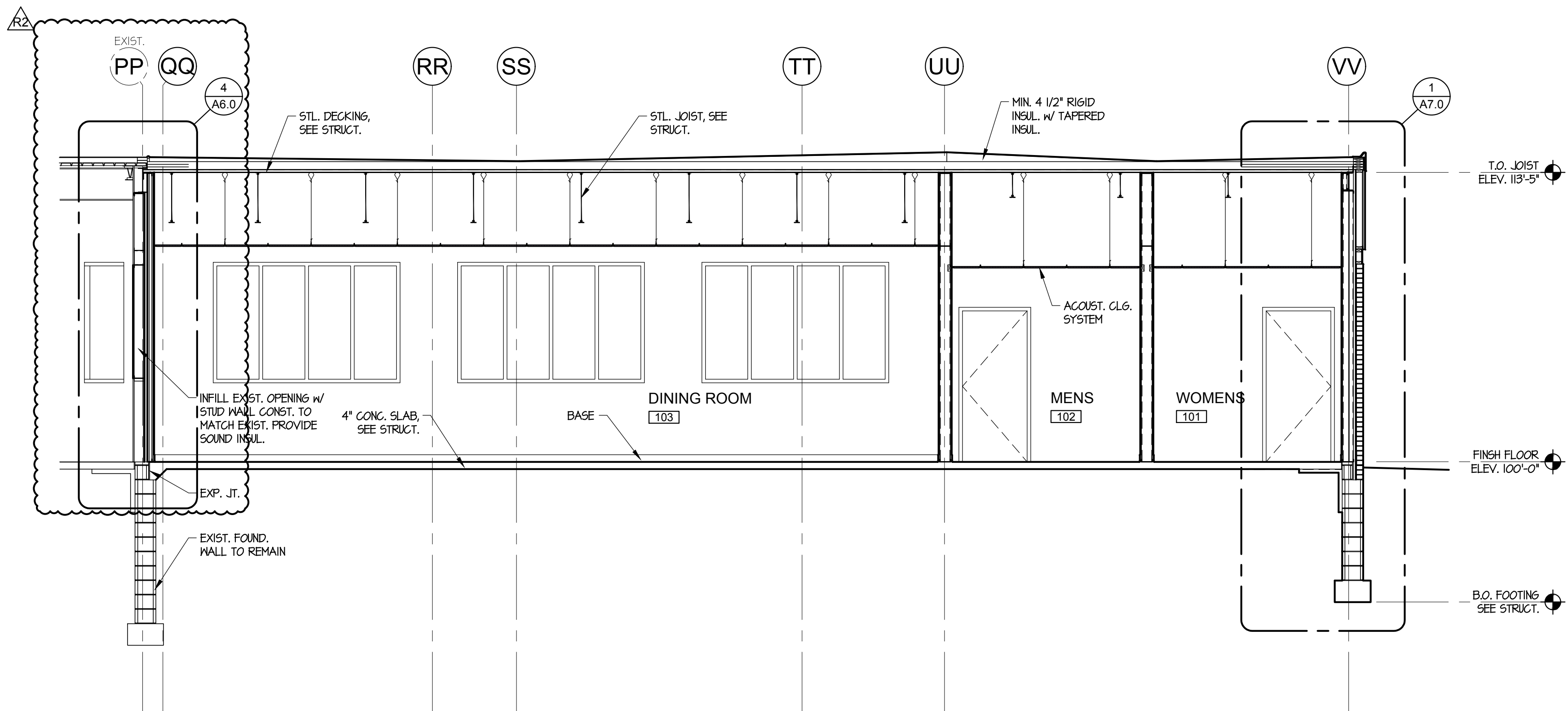


1 ENLARGED FLOOR PLAN

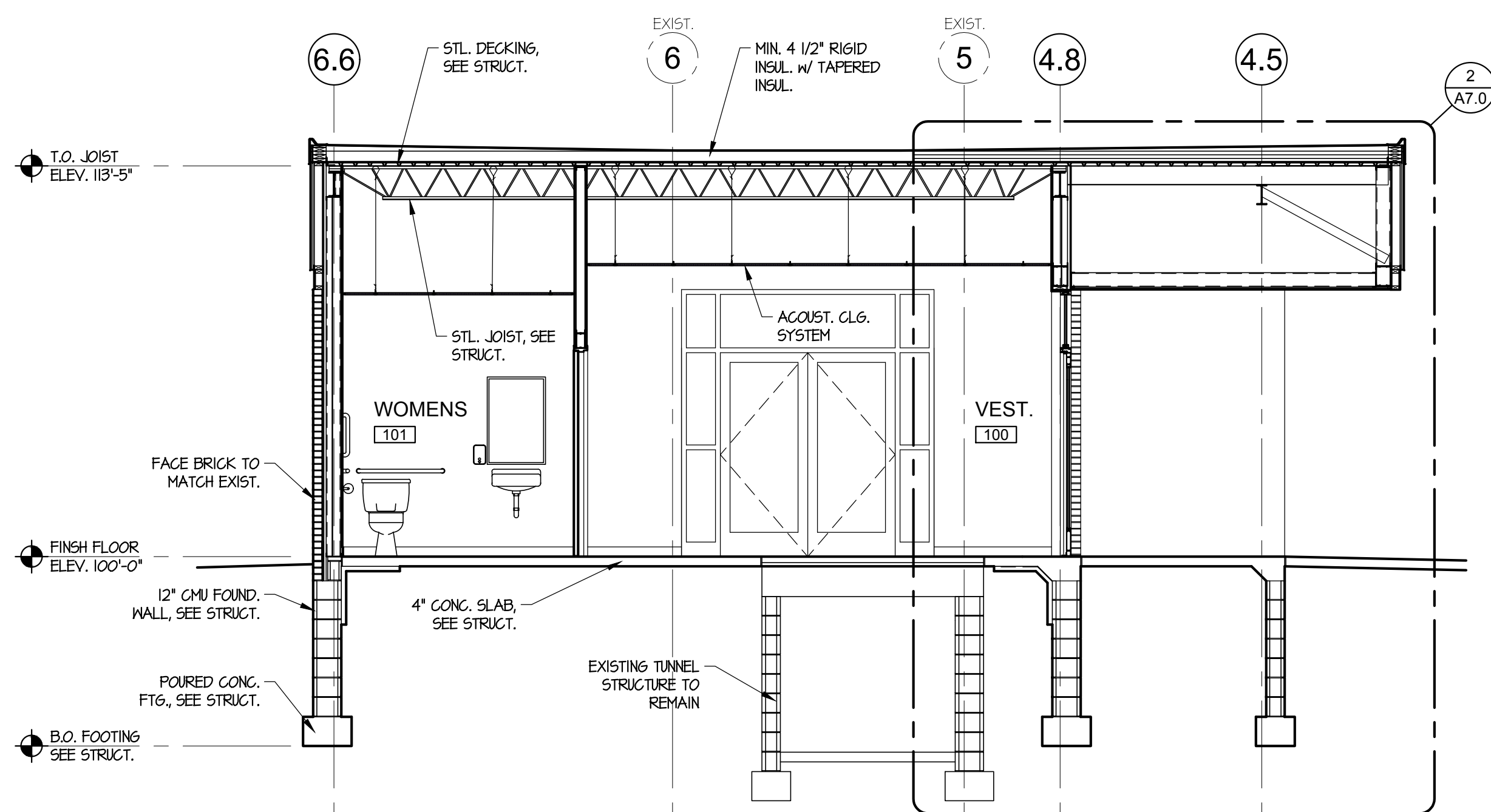
SCALE: 1/4" = 1'-0"



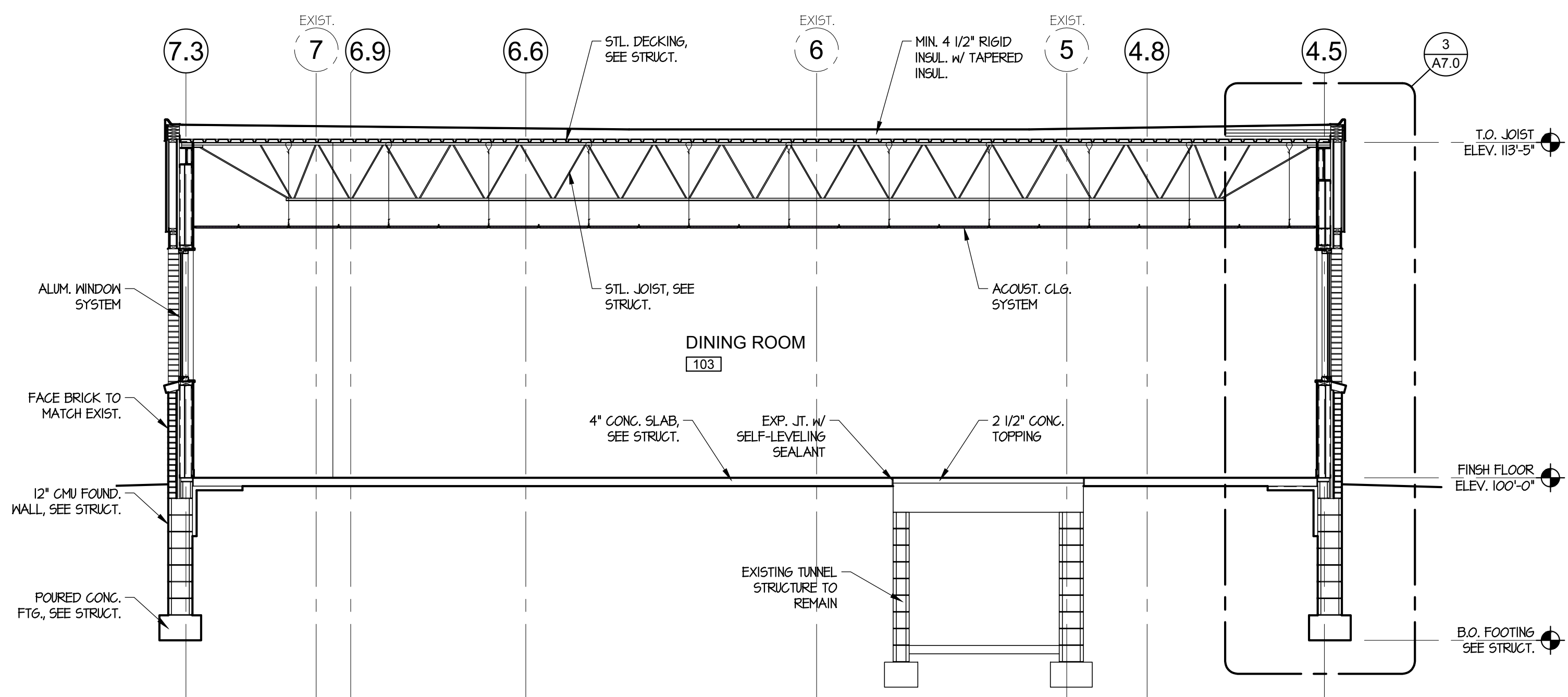
4 WALL SECTION
SCALE: 3/4" = 1'-0"



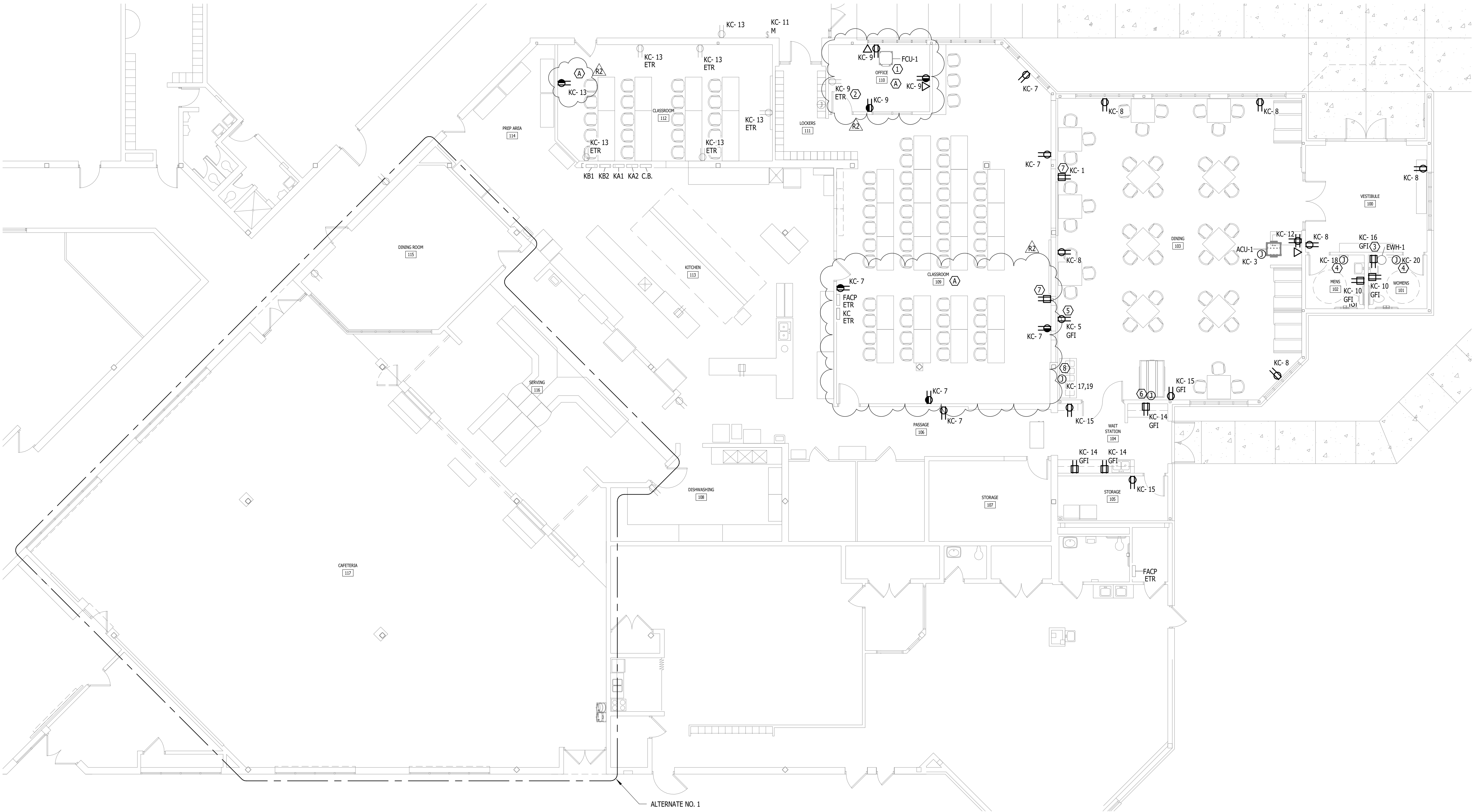
1 BUILDING SECTION
SCALE: 1/4" = 1'-0"

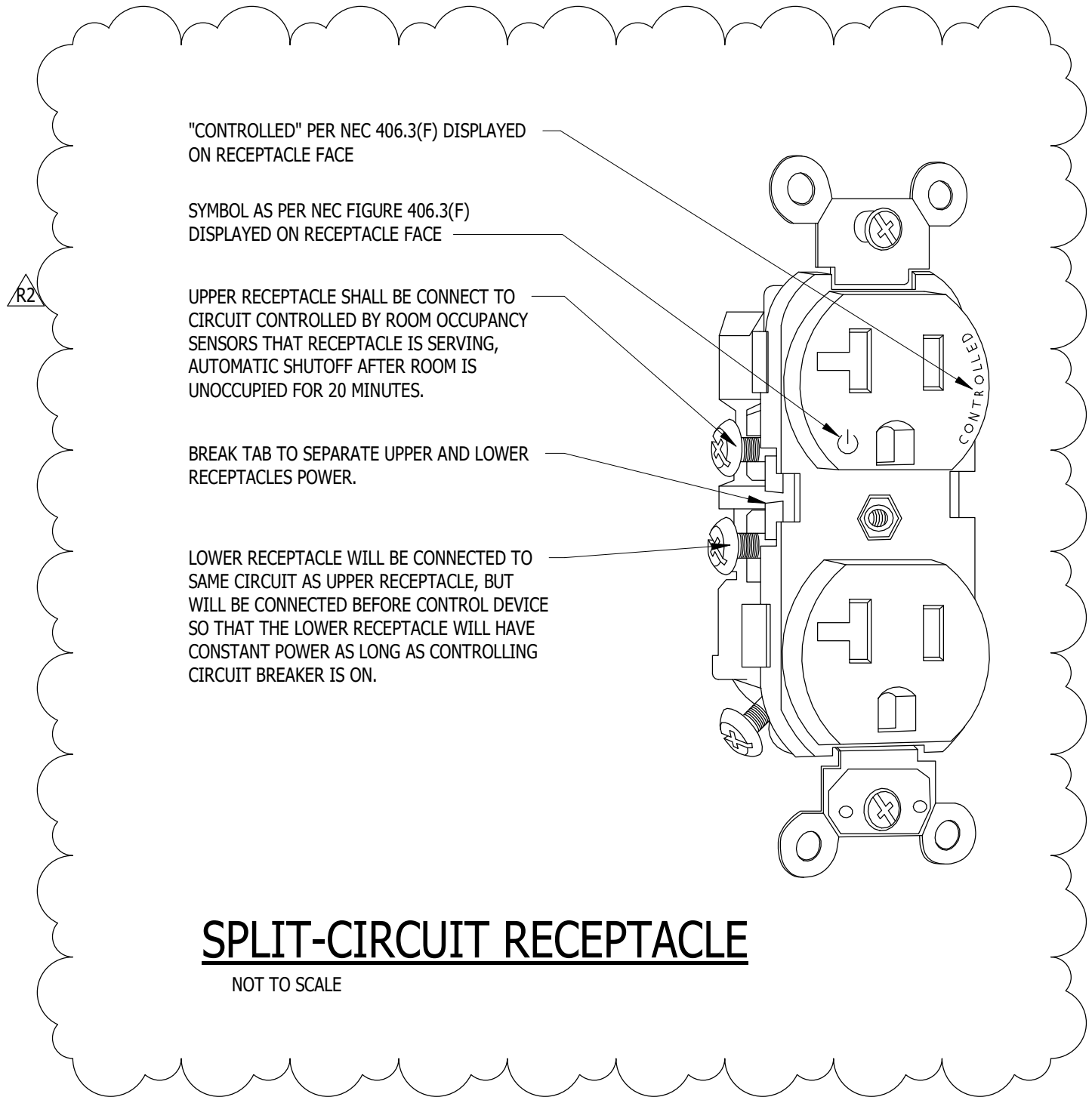
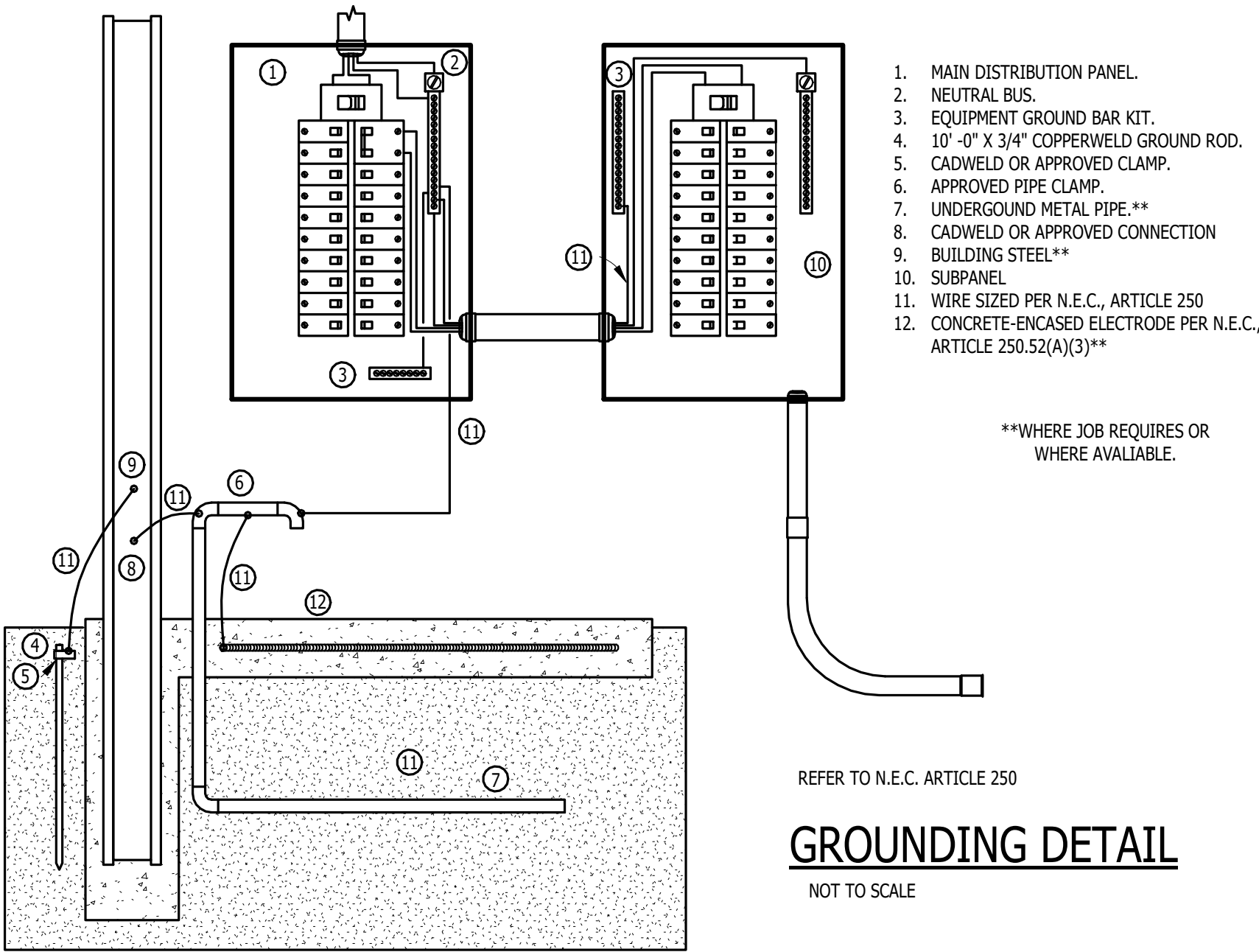


2 BUILDING SECTION
SCALE: 1/4" = 1'-0"



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





FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE

COPPER CONDUCTORS							ALUMINUM CONDUCTORS				
OVERCURRENT DEVICE RATING (AMPERES)	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE				WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE		
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH,1IN,1G)	SINGLE PHASE 3 WIRE+G (2PH,1IN,1G)	THREE PHASE 3 WIRE+G (3PH,1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH,1IN,1G)	PHASE & NEUTRAL	GROUND	SINGLE PHASE 3 WIRE+G (2PH,1IN,1G)	THREE PHASE 3 WIRE+G (3PH,1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH,1IN,1G)
15-20	12	12	3/4"	3/4"	3/4"	3/4"	NOT ACCEPTABLE				
25-30	10	10	3/4"	3/4"	3/4"	3/4"					
35-40	8	10	3/4"	3/4"	3/4"	3/4"					
45-50	8 (6)	10	3/4"	3/4"	3/4"	3/4"					
60	6 (4)	10	3/4"(1)	3/4"(1)	3/4"(1)	3/4"(1)					
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"					
80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"					
90-100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1	6	1 1/2"	1 1/4"	1 1/2"
110	2 (1)	6	-	1 1/4"	1 1/4"	1 1/4" (1 1/2")	1/0	4	-	1 1/2"	2"
125	1 (1/0)	6	-	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"	2/0	4	-	1 1/2"	2"
150	1/0	6	-	1 1/2"	1 1/2"	1 1/2"	3/0	4	-	2"	2 1/2"
175	2/0	6	-	2"	2"	2"	4/0	4	-	2"	2 1/2"
200	3/0	6	-	2"	2"	2 1/2"	250	4	-	2"	3"
225	4/0	4	-	2"	2"	2 1/2"	300	2	-	2 1/2"	3"
250	250	4	-	2 1/2"	2 1/2"	2 1/2"	350	2	-	2 1/2"	3"
300	350	4	-	2 1/2"	2 1/2"	3"	500	2	-	3"	3 1/2"
350	500	3	-	3"	3"	3"	2-4/0	2-1/0	-	2-2"	2-2"
400	500	3	-	3"	3"	3"	2-250	2-1/0	-	2-2"	2-2 1/2"
450	2-4/0	2-2	-	2-2"	2-2"	2-2 1/2"	2-300	2-1/0	-	2-2 1/2"	2-3"
500	2-250	2-2	-	2-2 1/2"	2-2 1/2"	2-2 1/2"	2-350	2-1/0	-	2-2 1/2"	2-3"
600	2-350	2-1	-	2-2 1/2"	2-2 1/2"	2-3"	2-500	2-2/0	-	2-3"	2-3 1/2"
700	2-500	2-1/0	-	2-3"	2-3"	2-3"	2-600	2-3/0	-	2-3"	2-3 1/2"
800	3-500	2-1/0	-	2-3"	2-3"	2-3 1/2"	3-400	3-3/0	-	3-3"	3-3 1/2"
1000	3-400	3-2/0	-	3-3"	3-3"	3-3"	3-600	3-4/0	-	3-3 1/2"	3-3 1/2"
1200	3-600	3-3/0	-	3-3 1/2"	3-3 1/2"	3-3 1/2"	4-500	4-250	-	4-3"	4-3 1/2"
1600	4-600	4-4/0	-	4-3 1/2"	4-3 1/2"	4-3 1/2"	5-600	5-350	-	5-3 1/2"	5-4"
2000	5-600	5-250	-	5-3 1/2"	5-3 1/2"	5-3 1/2"	6-600	6-400	-	6-3 1/2"	6-4"

- NOTES:
- CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
 - CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
 - CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED COPPER WIRE APPLIED AT 75° FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED 60°C, USE CONDUCTORS AND CONDUIT SIZED INDICATED IN PARENTHESES.
 - CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHERS TYPES OF CONDUIT.
 - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
 - SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
 - OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
 - SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS

BRANCH CIRCUIT RATING(A)	WIRE SIZE	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

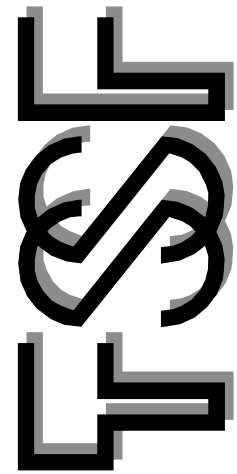
- NOTES:
- THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD FACTOR OF .85 PER NEC CHAPTER 9, TABLE 9.
 - PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
 - CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
 - LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3% VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

DINING ROOM ADDITION AND RENOVATIONS FOR:

BAY ARENAC ISD

BAY CITY, MICHIGAN

TSSF ARCHITECTS, INC.
ARCHITECTS
INTERIORS
PLANNERS
122 N. WASHINGTON AVENUE
SAGINAW, MICHIGAN



DINING ROOM ADDITION AND RENOVATIONS FOR:

BAY ARENAC ISD

BAY CITY, MICHIGAN

08/05/26
DATE
R2
NO.
CODE REVIEW RESPONSE

DRAWN BY JWA
DATE 03/17/2026
APPROVED KTS

SHEET NO.

E5.0

PROJECT NO.
2538