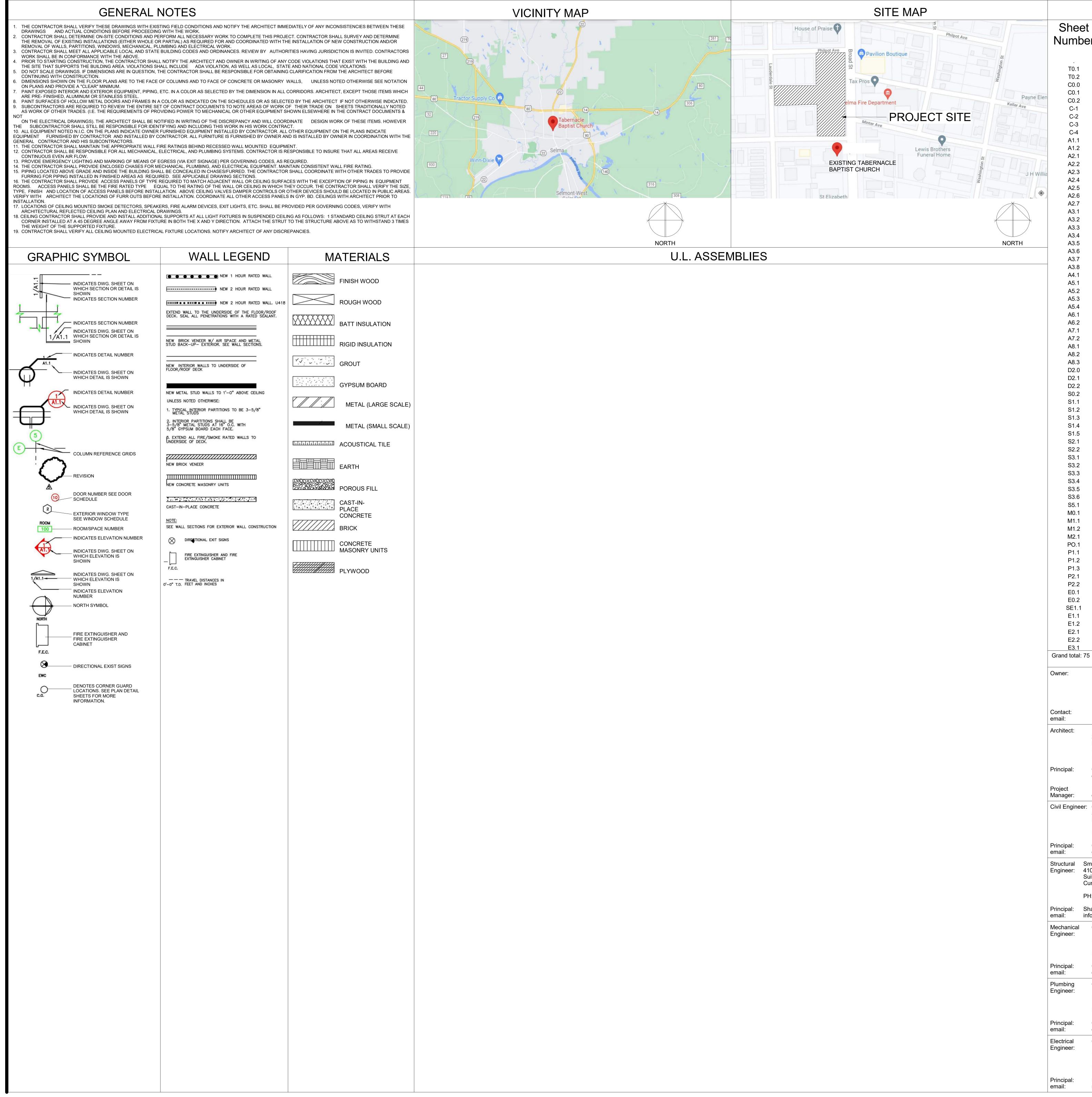






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E1.2	FLOOR PLAN - LIGHTING
E2.1	FLOOR PLAN - POWER
E2.2	FLOOR PLAN - POWER
E3.1 Grand total: 7	⁷⁵ PROJECT T
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Drawing List

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DATA SHEET

PLAN REFERENCE PLAN AND REFERENCE PLAN

NG PLAN EILING PLAN ECTIONS

N PLANS AST & NORTH EST & SOUTH

LES PLAN

ES - FIRST FLOOR PLAN

- BALCONY PLAN AND VENT

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05/10/2022

Date

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3. 3. 3. 3. 3. 3. 3.	THE BUILDING IF YES ADD PF THE PUBLIC D IBC CHAPTER 2.2 RENC IS THE WORK 2.3 HISTC THIS BUILDING CONSTRUCTION GROSS SQUAL CONSTRUCTION MIXED CONST SPRINKLERS SYS STANDPIPES BUILDING HEIG HIGH RISE ATRIUM BASEMENT 2.5 OCCU ASSEMBLY 30 BUSINESS 304 EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA FACTORY IND HIGH-HAZARD MERCANTILE RESIDENTIAL STORAGE UTILITY AND N PARKING GAR	WILL REMAIN II ROVISIONS FOR DURING CONSTR 33. YELLOW SA DVATION IN THIS BUILDIN DRIC BUI G IS A HISTORIC DING DA RE FOOT AREA DN TYPE RUCTION STEM TYPE MO STEM TYPE NO X NO JPANCY 303 MISCELLANEOUS AGE 406.2 IPANT LO	N OPERATION I RIGID SAFETY RUCTION IN ACC FETY TAPE NOT S AG OR SPACE A ILDINGS TA 7,708 1A 7,708 1A 10 X NO X 13 X YES CLASSI A-1 - F-1 - YES X YES CLASSI A-1 - A-1 - - - - - - - - - - - - -	CHANGE OF C BARRIERS ANI CORDANCE WIT ACCEPTABLE CHANGE OF C 	TRUCTION D DUST BARRI TH THE APPLIC E. DCCUPANCY? YES YES YES PARTIAL 13D TDI STORIES YES DN YES DN YES	ERS TO PRO CABLE PRO 	ROTECT DVISIONS OF YES NO NO IIIA COMBINED JLIMITED PER A-5 H-5	
3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	THE BUILDING IF YES ADD PF THE PUBLIC D IBC CHAPTER 2.2 RENC IS THE WORK 2.3 HISTC THIS BUILDING 2.4 BUILDING GROSS SQUA CONSTRUCTIO MIXED CONST SPRINKLERS SYS STANDPIPES BUILDING HEIG HIGH RISE ATRIUM BASEMENT 2.5 OCCL ASSEMBLY 30 BUSINESS 304 EDUCATION 3 FACTORY IND HIGH-HAZARD MERCANTILE STORAGE UTILITY AND M PARKING GAR 2.6 OCCLU	WILL REMAIN II ROVISIONS FOR OURING CONSTR 33. YELLOW SA OVATION IN THIS BUILDIN ORIC BUI G IS A HISTORIC OING DATORIC CING DATORIC RE FOOT AREA ON TYPE RUCTION STEM TYPE NO STEM TYPE STEM TYPE STEM TYPE	N OPERATION I RIGID SAFETY RUCTION IN ACC FETY TAPE NOT S AG OR SPACE A ILDINGS TA 7,708 1A 7,708 1A 7,708 1A 10 X 13 X YES X YES CLASSI A-1 - - - - - - - - - - - - -	DURING CONST BARRIERS ANI CORDANCE WIT ACCEPTABLE CHANGE OF C	TRUCTION D DUST BARRI TH THE APPLIC E. DCCUPANCY? YES YES YES YES 	ERS TO PRO CABLE PRO 	ROTECT DVISIONS OF YESX NO NO NO X IIIA COMBINED JLIMITED PER A-5 A-5 H-5	
3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	THE BUILDING IF YES ADD PF THE PUBLIC D IBC CHAPTER 2.2 RENC IS THE WORK 2.3 HISTC THIS BUILDING CONSTRUCTION GROSS SQUAL CONSTRUCTION MIXED CONST SPRINKLERS SYS STANDPIPES BUILDING HEIG HIGH RISE ATRIUM BASEMENT 2.5 OCCU ASSEMBLY 30 BUSINESS 304 EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA EDUCATION 3 FACTORY IND HIGH-HAZARD INSTITUTIONA FACTORY IND HIGH-HAZARD MERCANTILE RESIDENTIAL STORAGE UTILITY AND N PARKING GAR	WILL REMAIN II ROVISIONS FOR OURING CONSTR 33. YELLOW SA OVATION IN THIS BUILDIN ORIC BUI G IS A HISTORIC OING DATORIC CING DATORIC RE FOOT AREA ON TYPE RUCTION STEM TYPE NO STEM TYPE STEM TYPE STEM TYPE	N OPERATION I RIGID SAFETY RUCTION IN ACC FETY TAPE NOT S AG OR SPACE A ILDINGS TA 7,708 1A 7,708 1A 10 X NO X 13 X YES CLASSI A-1 - F-1 - YES X YES CLASSI A-1 - A-1 - - - - - - - - - - - - -	DURING CONST BARRIERS ANI CORDANCE WIT ACCEPTABLE CHANGE OF C	TRUCTION D DUST BARRI TH THE APPLIC E. DCCUPANCY? YES YES YES YES 	ERS TO PRO CABLE PRO 	ROTECT DVISIONS OF YESX NO NO NO X IIIA COMBINED JLIMITED PER A-5 A-5 H-5	

13. SPECIAL DETAILED REG	•	7.2 OTHER RATED
BELOW AND INCORPORATED THE PROVISIONS INTO	D MY DESIGN	BUILDING ELEMENT INTERIOR WALLS
REQUIREMENT 402 COVERED MALL BUILDING	APPLICABLE (YES OR N/A) <u>N/A</u>	BEARING
403 HIGH RISE BUILDINGS	N/A	NON-BEARING
404 ATRIUMS 405 UNDER GROUND BUILDINGS	N/A	CEILING-FLOORS BEAMS
406 MOTOR-VEHICLE RELATED OCCUPANCIES	N/A	COLUMNS
407 GROUP I-2 408 GROUP I-3	N/A	CEILING-ROOFS
408 GROUP 1-3 409 MOTION PICTURE PROJECTION ROOMS	N/A	SHAFTS-EXIT SHAFTS-OTHER
410 STAGES & PLATFORMS	N/A	
411 SPECIAL AMUSEMENT BUILDINGS 412 AIRCRAFT RELATED OCCUPANCIES	N/A	CORRIDOR SEPARATION OCCUPANCY SEPARATION
413 COMBUSTIBLE STORAGE	N/A	PARTY/FIRE WALL
414 HAZARDOUS MATERIALS	N/A	SEPARATION
415 GROUPS H-1, H-2, H-3, H-4 & H-5 416 APPLICATION OF FLAMMABLE FINISHES	N/A	SMOKE BARRIER
417 DRYING ROOMS	N/A	SEPARATION
418 ORGANIC COATINGS 419 LIVE/WORK UNITS	N/A	
420 GROUPS I-1, R-1, R-2, R-3 AND R-4	N/A	* OR OTHER APPROVED AGENCIES
421 HYDROGEN FUEL GAS ROOMS	N/A	
422 AMBULATORY CARE FACILITIES 423 STORM SHELTERS	N/A	7.2.1 FOOTNOTES
424 CHILDREN'S PLAY STRUCTURES	N/A	1. ALL FIRE RATED WALLS SHALL E ETC.; SHOW LEGEND.
425 HYPERBARIC FACILITIES 426 COMBUSTIBLE DUST, GRAIN	N/A	2. IDENTIFY CODE SECTION WHEN
PROCESSING AND STORAGE		
4.1 SPECIAL OCCUPANCY		7.3 DRAFTSTOPPIN
<u>N/A</u> S-2 ENCLOSED PARKING GARAGE W/S	S-2 OPEN PARKING ABOVE	DRAFTSTOPPING IN FLOOR (718.3
N/A UNLIMITED HEIGHT FOR B, M AND R		DRAFTSTOPPING IN ATTIC (718.4)
N/A PARKING BENEATH R R-2 TYP		
N/A OPEN PARKING BENEATH A, I, B, M AN		
N/A s-2 enclosed parking with A, B, M	OR R ABOVE	7.3.1 DISTANCE TO P EXTERIOR WAL
		(SITE PLAN/REFERENCE PLAN R
4.2 MIXED OCCUPANCY	K NO YES SEPARATION HR	FIRE SEPARATION DISTANCE
EXCEPTION		FIRE RESISTANCE RATING
IDENTIFY WHETHER YOU ARE USING T	HE PROVISIONS OF NON-SEPARATED USES	
OR SEPARATED USES BY PLACING AN		9 LIFE SAFETY SYS
NON-SEPARATED MIXED OCCUPANCY THE REQUIRED TYPE OF CONSTRUCT	(302.3.2 EXCEPTION) ON FOR THE BUILDING SHALL BE DETERMINED	1003.2.11 EMERGENCY LIGHT
BY APPLYING THE HEIGHT AND AREA L	IMITATIONS FOR EACH OF THE APPLICABLE	1003.2.10 EXIT SIGNS:
OCCUPANCIES TO THE ENTIRE BUILDI CONSTRUCTION SO DETERMINED, SH		907 FIRE ALARM:
SEPARATED MIXED OCCUPANCY (302.3	3.3)	907.2.3 SMOKE DETECTION S PANIC HARDWARE:
EACH PORTION OF THE BUILDING SHA USE AND SHALL BE COMPLETELY SEP.		
FIRE BARRIER WALLS OR HORIZONTAL	ASSEMBLIES OR BOTH HAVING A	9.1 LIFE SAFETY CC
FIRE-RESISTANCE RATING DETERMINE FOR THE USES BEING SEPARATED. FC	ED IN ACCORDANCE WITH TABLE 302.3.3 IR THE USES BEING SEPARATED. FOR	CONSTRUCTION TYPE
EACH STORY, THE AREA OF THE OCCU	JPANCY SHALL BE SUCH THAT THE	AUTOMATIC SPRINKLE
SUM OF THE RATIOS OF THE ACTUAL F BY THE ALLOWABLE FLOOR AREA FOR		OCCUPANT LOAD FAC
INCIDENTAL USE AREAS (302.1.1)		ASSEMBLY
ACTUAL AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY A	+ ACTUAL AREA OF OCCUPANCY B ALLOWABLE AREA OF OCCUPANCY B	
ALLOWABLE AREA OF OCCUPANCE A	ALLOWABLE AREA OF OCCOPANCE B	
5. ALLOWABLE AREA AND	HEIGHT-TABLE 504.3	10 EXIT REQUIREME
5.1 ALLOWABLE AREA		10.1 EXIT ACCESS (10
ALLOWABLE AREA <u>42.000</u> SQ.FT	MEZZANINE AREA N/A SQ.FT	NO. OF EXIT REQUIRED2
FLOOR AREA <u>42,000</u> SQ.FT	AREA BETWEEN FIRE WALLS: N/A	NO. OF EXIT FURNISHED6
OCCUPANCY SEPARATION: <u>N/A</u>		
AREA INCREASE: 1=4/3[100(F/P-2.5)] F= BUILDING PERMITTED SURROUNDED BY 30'-0"	OF OPEN SPACE = 540.	10.2 MEANS OF EGRI
P = TOTAL PERMETER OF BUILDING = 540. I = 4/3{100(125)(75)} = 100%		UNITS OF EXIT REQUIRED
		UNITS OF EXIT FURNISHED STAIR WIDTH UNITS REQUIRED
5.2 ALLOWABLE HEIGHT		STAIR WIDTH UNITS REQUIRED
ALLOWABLE HEIGHT <u>85'-0"</u>	FT	10.3 TRAVEL DISTAN
ALLOWABLE NO. OF STORIES 4		ALLOWABLE TRAVEL DISTANCE
ACTUAL BUILDING HEIGHT <u>48'-8"</u>	FT	ACTUAL TRAVEL DISTANCE (MA
ACTUAL NO. OF STORIES 2		
		10.4 SPACES WITH O
7. FIRE PROTECTION REQ	UIREMENTS	(IBC 1006.2.1)
7.1 TABLE 601 & 602		FOR BUILDINGS WITH ONE MEA
BUILDING ELEMENT	REQ'D RATING UL NO.*	EGRESS, I HAVE CHECKED THE LOAD AND THE COMMON PATH
STRUCTURAL FRAME,		AGAINST THE REQUIREMENTS I
INCLUDING COLUMNS, GIRDERS, TRUSSES		
BEARING WALLS	-	EGR
EXTERIOR	<u>2</u>	OCCUPANCY SIZE C
NON-BEARING WALLS AND PARTITIONS EXTERIOR	0	
INTERIOR	0	Assembly 10,104 sf
FLOOR CONSTRUCTION		
(INCLUDING SUPPORTING BEAMS AND JOIST) $_$		10.5 LIFE SAFETY PL
ROOF CONSTRUCTION		
(INCLUDING SUPPORTING BEAMS AND JOIST) $_$		
		11. ACCESSIBILITY (C
		DESIGN CONFORMS TO ANSI ST

ELEMENTS

REQ'D RATING	UL NO.*
0 0	
1 N/A	
1 1 N/A	
N/A N/A	
N/A	
N/A	
N/A	

L BE IDENTIFIED ON PLANS BY HATCHING, SHADING,

N USING ANY SPECIAL EXCEPTIONS, ETC. FOOTNOTES.

١G

8.3)	YES	<u> X </u> NO
.4)	YES	<u> X </u> NO

PROPERTY LINE FROM

LL (TAE	BLE 602)	
N REQUIRED)		
	<u> 30'-0"</u> FT	
	<u>0</u> HR	6
STEMS		
HTING:	<u>X</u> YES	NO
	<u>X</u> YES	NO
	<u> X </u> YES	NO

SYSTEMS:	<u> X </u> YES	NO
	<u>X</u> YES	NO
ODE		

E:

LERING SYSTEM: YES _____ ACTORS (NFPA 101, 5.3.1.6): 483 PERSONS

ENTS

1004.1.2 - TABLE 1006.3.2)

RESS WIDTH

96.6 INCHES 288 INCHES 52.5 INCHES _72___INCHES

NCE (TABLE 1017.2) CE <u>250</u> FT MAXIMUM) <u>50</u> FT

ONE MEANS OF EGRESS

EANS OF HE OCCUPANT TH OF TRAVEL IBC

F	RESS CAPACITY TABULATION						
	OCCUPANCY LOAD	EGRESS WIDTH REQUIRED	EGRESS WIDTH PROVIDED				
		DOORS:					
	483 persons	483 PERSONS X .2" = 96.6"	288"				

LAN

YES _____ NO

(CHAPTER 11)

12. DESIGN LOADS

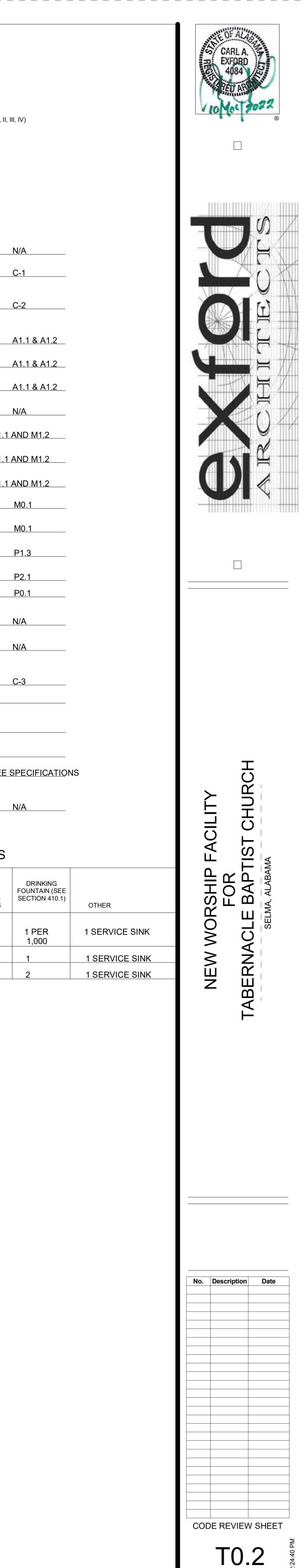
CLASSIFICATION	I OF BUILDI	NG CATEGORY/U	SE GROUP	IIIA	(I, II, I
LIVE LOAD ROO	F	X	_ PSF		
	ATTIC	N/A	PSF		
MEZZANINE		N/A	_ PSF		
FLOOR		Χ	PSF		

14. OTHER INFORMATION

4.		
1.	INDICATE AREA BETWEEN FIREWALLS.	
2.	PROVIDE SITE PLAN SHOWING LAYOUT OF BUILDING FROM ALL PROPERTY LINES.	
3.	PROVIDE SITE UTILITY PLAN INDICATING LOCATION AND SIZES FOR ALL UTILITIES INCLUDING WATER. SEWER, STORM, AND ELECTRICAL.	
4.	PROVIDE LIFE SAFETY PLAN SHOWING EXITS AND FIRE RATINGS FOR ALL EXIT ACCESS CORRIDORS AND SHAFTS.	
5.	INDICATE TRAVEL DISTANCE FROM EACH TENANT SPACE IN FEET.	
6.	PROVIDE INTERIOR PARTITIONS FOR ALL RATED AND NON-RATED PARTITION TYPES.	
7.	INDICATE ALL DUCTWORK THAT CROSSES FIRE RATED WALLS AND INDICATE FIRE DAMPERS.	
8.	PROVIDE HVAC PLANS WITH ALL DUCT SIZES AND CFM PER OUTLET WITH AIR BALANCE TABLE.	M1.1
9.	INDICATE ON HVAC DRAWINGS ALL EXHAUST AND RELIEF FANS WITH CFM REQUIREMENTS.	M1.1
10.	INDICATE BUILDING EXHAUST SEPARATE FROM TOILET EXHAUST.	<u>M1.1</u>
11.	SUBMIT OUTSIDE AIR CALCULATIONS SHOWING COMPLIANCE WITH ASHRAE 62-89.	
12.	SUBMIT MATERIAL DATA SAFETY SHEETS IF THE BUILDING STORES CHEMICALS OR GASES.	
13.	PROVIDE PLUMBING DRAWINGS SHOWING NON-PRESSURE PIPING.	
14.	PROVIDE ISOMETRIC OF DRAINAGE WASTE AND VENT SYSTEM.	
15.	PROVIDE PLUMBING FIXTURE SCHEDULE.	
16.	INDICATE ON PLANS EXISTING FIXTURES AND/OR FIXTURES TO BE REMOVED.	
17.	INDICATE EXISTING WET COLUMNS AND/OR EXISTING CONNECTIONS TO THE EXISTING SEWER SYSTEM.	
18.	PROVIDE SITE PLAN WHEN APPLICABLE FOR NEW CONSTRUCTION AND ADDITIONS INDICATING CONNECTIONS OF WATER AND GAS LINES TO RESPECTIVE MAINS.	
19.	PROVIDE GAS ISOMETRIC FOR ALL GAS PIPING.	
20.	INDICATE LONGEST RUN OF PIPING FROM GAS METER TO FARTHEST OUTLET.	
21.	PROVIDE TOTAL BTU'S OF THE NEW AND EXISTING GAS PIPING SYSTEM.	
22.	PROVIDE DOOR SCHEDULE WITH FIRE RATING AND HARDWARE.	SEE
23.	PROVIDE METHODS OF PROTECTION FOR PENETRATIONS THROUGH FIRE RATED PARTITIONS AND FLOORS.	

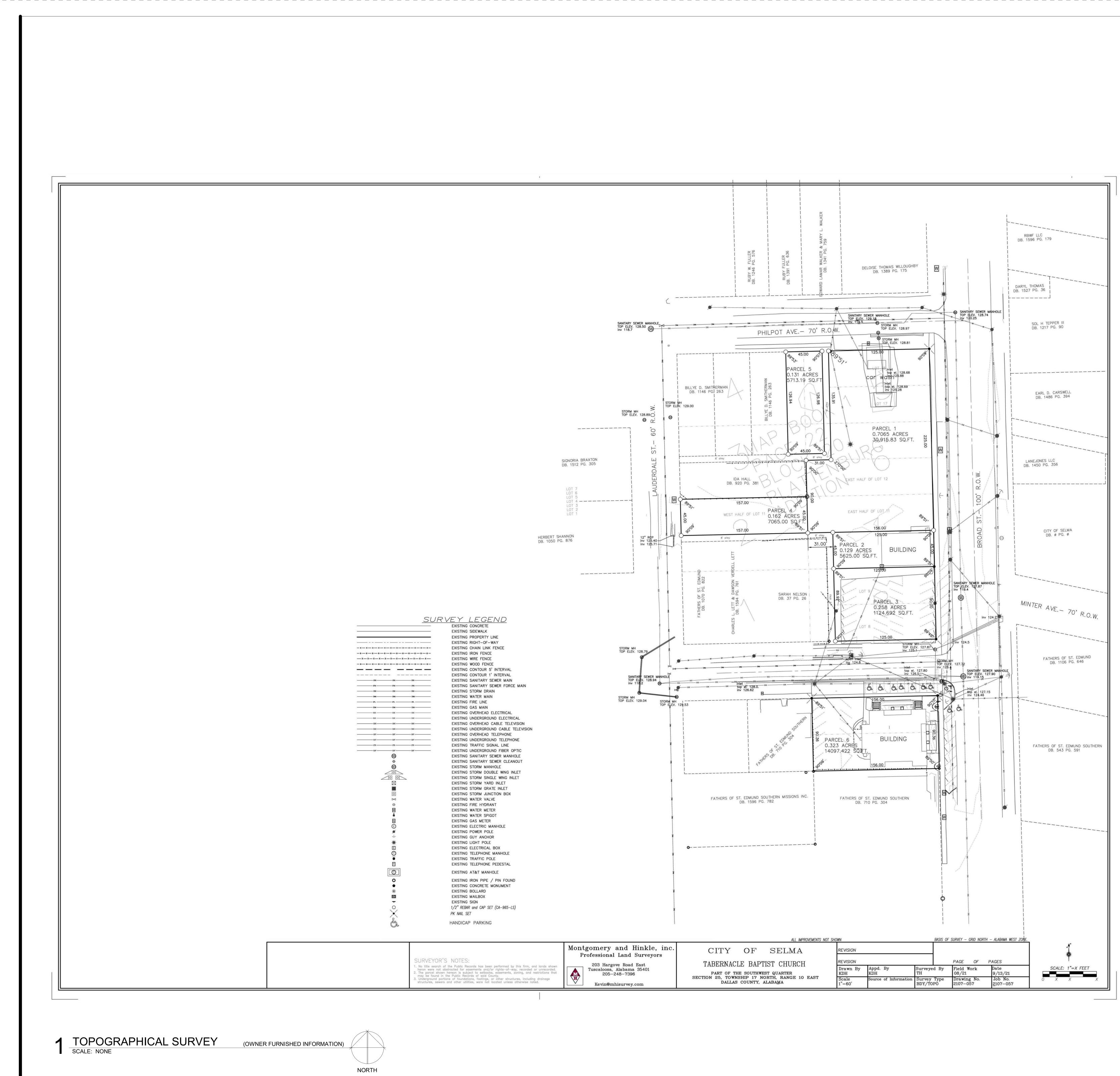
15. MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

			WATER CLOSETS (URINALS SEE SECTION 419.2)		ALS SEE		
CLASSIFICATION	OCCUPANCY	DESCRIPTION	MALE	FEMALE	MALE	FEMALE	BATHTUBS /SHOWERS
ASSEMBLY	A-3 483 PER.	CHURCH	1 PER 150	1 PER 75	1 PER 200	1 PER 200	N/A
NUMBER OF FIXTURES REQUIRED			2	3	1	1	N/A
NUMBER OF FIXTURES PROVIDED			5	4	4	3	N/A



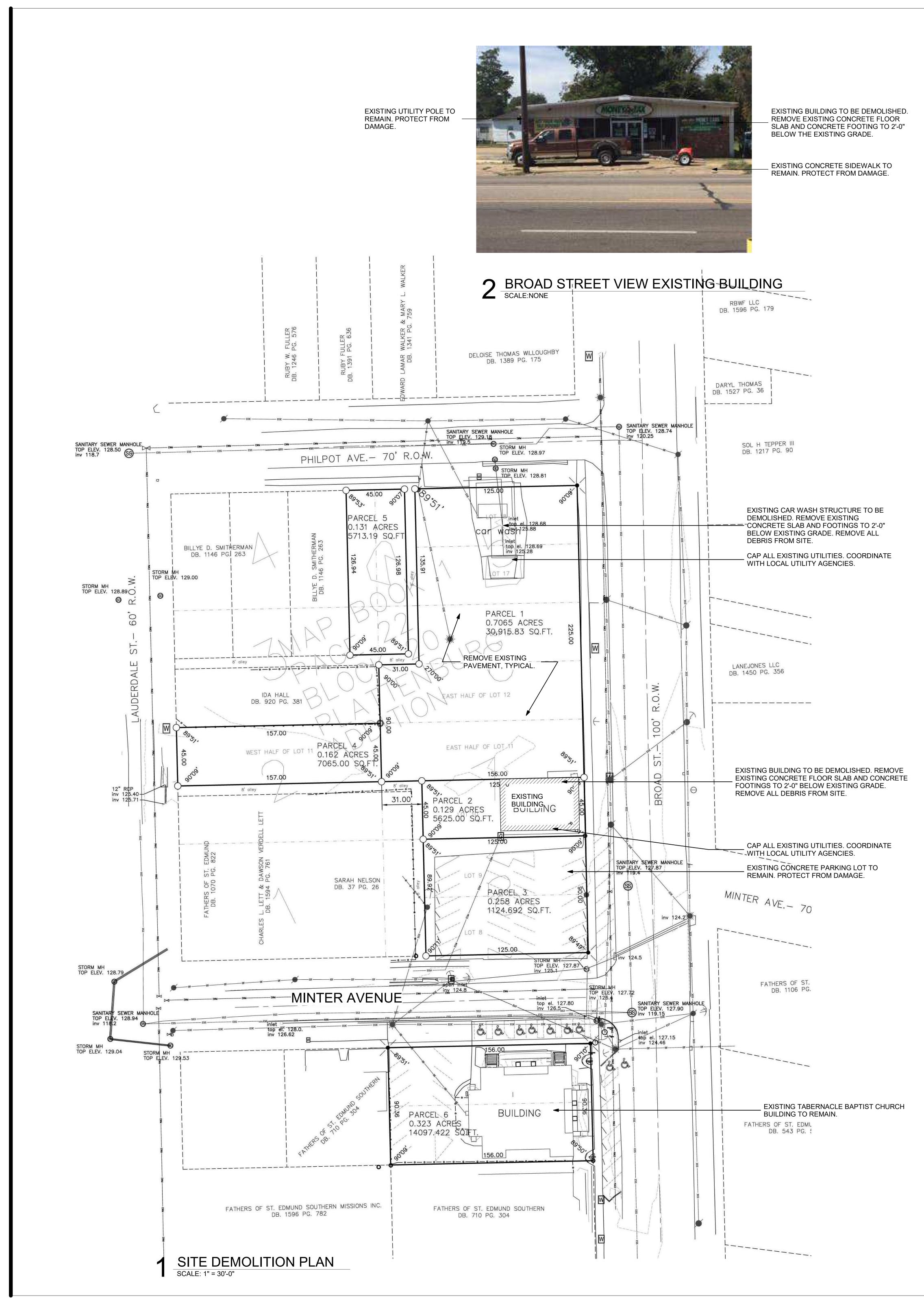
Date 05/10/2022

Project number 10238.00



	HER DB.	BERT SHANNON 1050 PG. 876 	EDMUND 822
	EXISTING CONCRETE EXISTING SIDEWALK EXISTING SIDEWALK EXISTING ROCHTOF-WAY EXISTING CHAIN LINK FENCE EXISTING CHAIN LINK FENCE EXISTING CONTOUR 5' INTERVAL EXISTING SANITARY SEWER MAIN EXISTING SANITARY SEWER MAIN EXISTING SANITARY SEWER MAIN EXISTING SANITARY SEWER MAIN EXISTING WATER MAIN EXISTING WATER MAIN EXISTING WATER MAIN EXISTING OVERHEAD ELECTRICAL EXISTING OVERHEAD CABLE TELEVISION EXISTING OVERHEAD CLECTRICAL EXISTING UNDERGROUND LECTRICAL EXISTING UNDERGROUND CABLE TELEVISION EXISTING UNDERGROUND CLECTRICAL EXISTING UNDERGROUND TELEPHONE EXISTING UNDERGROUND TELEPHONE EXISTING STORM SANITARY SEWER MAINHOLE EXISTING STORM MOUDELE WING INLET EXISTING STORM JARD INLET EXISTING STORM YARD INLET EXISTING STORM YARD INLET EXISTING WATER VALVE EXISTING GAS METER <t< th=""><th>STORM MH TOP ELEV. 128.04 STORM MH TOP ELEV. 128.04 STORM MH TOP ELEV. 128.04 STORM MH</th><th>FATHERS OF ST.</th></t<>	STORM MH TOP ELEV. 128.04 STORM MH TOP ELEV. 128.04 STORM MH TOP ELEV. 128.04 STORM MH	FATHERS OF ST.
	 SURVEYOR'S NOTES: 1. No title search of the Public Records has been performed by this firm, and lands heron were not abstracted for easements and/or rights-of-way, recorded or unre 2. The parcel shown hereon is subject to setbacks, easements, zoning, and restriction may be found in the Public Records of said County. 3. Underground portions of foundations, footings, or other structures, including drained structures, sewers and other utilities, were not located unless otherwise noted. 	s shown corded. ms that age Kevin@mhisurvey.com	nc. (TA SECTION
RMATION)			





EXISTING HVAC UNIT AND SUPPORT STRUCTURE TO — BE REMOVED.



BELOW THE EXISTING GRADE.

3 MINTER AVENUE VIEW EXISTING BUILDING SCALE:NONE



REAR VIEW EXISTING BUILDING 4 REAR

STRUCTURE TO BE REMOVED.

EXISTING BUILDING TO BE DEMOLISHED. REMOVE EXISTING CONCRETE FLOOR SLAB AND CONCRETE FOOTING TO 2'-0" BELOW THE EXISTING GRADE. - REMOVE ALL EXISTING DEBRIS.



REMOVE EXISTING METAL STRUCTURE AND COLUMN SUPPORT.

REMOVE EXISTING ASPHALT PAVING. SEE SITE DEMOTION -----PLAN.

5 BROAD STREET VIEW - CAR WASH SCALE:NONE



REMOVE EXISTING DEBRIS.

SEE SITE DEMOLITION DRAWING FOR SITE INFORMATION.

6 PHILPOT AVENUE VIEW - CAR WASH SCALE:NONE

EXISTING BUILDING TO BE DEMOLISHED. REMOVE EXISTING CONCRETE FLOOR SLAB AND CONCRETE FOOTING TO 2'-0"

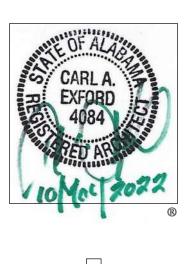
EXISTING CONCRETE PARKING LOT TO REMAIN. PROTECT FROM DAMAGE.

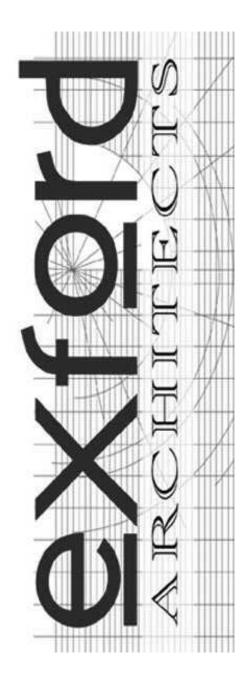
EXISTING HVAC UNIT AND SUPPORT

EXISTING BUILDING TO BE DEMOLISHED. REMOVE EXISTING CONCRETE FLOOR SLAB AND CONCRETE FOOTING TO 2'-0" BELOW THE EXISTING GRADE.

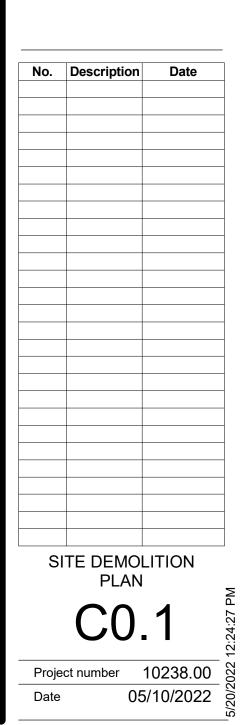
REMOVE EXISTING ELECTRICAL SERVICE. COORDINATE WITH UTILITY COMPANY.

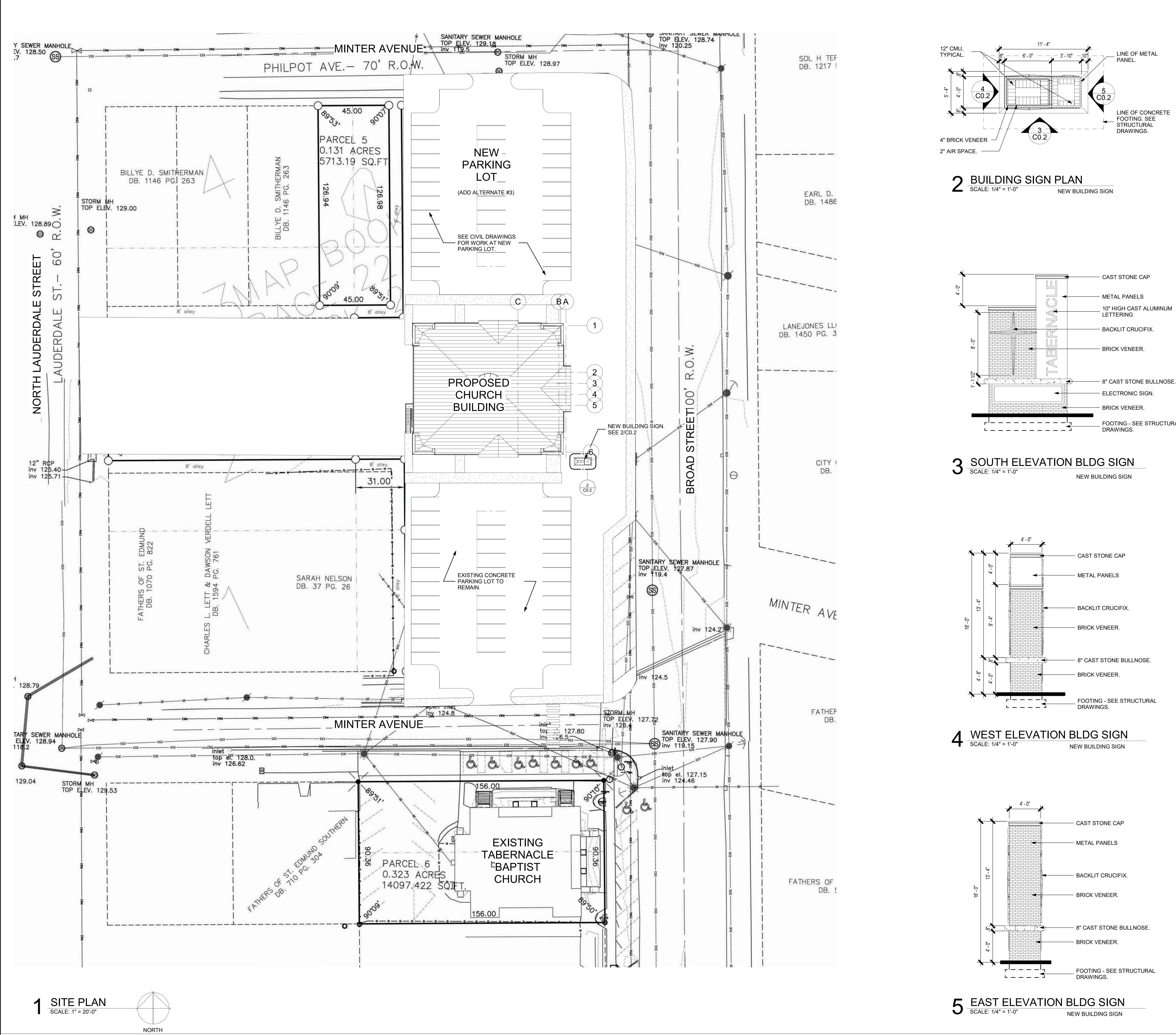
EXISTING BUILDING TO BE DEMOLISHED. REMOVE EXISTING CONCRETE FLOOR SLAB AND CONCRETE FOOTING TO 2'-0" BELOW THE EXISTING GRADE.





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LINE OF METAL PANEL.

LINE OF CONCRETE FOOTING. SEE STRUCTURAL DRAWINGS.

- CAST STONE CAP

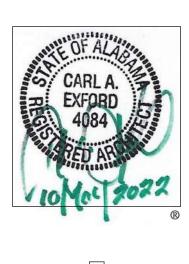
- METAL PANELS 10" HIGH CAST ALUMINUM LETTERING

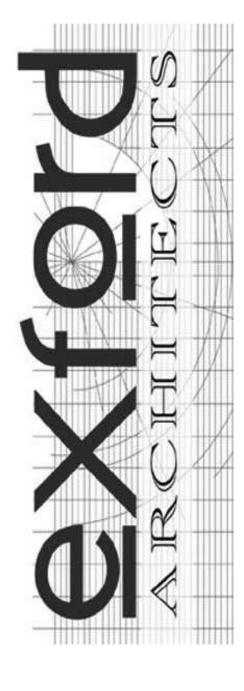
- BACKLIT CRUCIFIX.

BRICK VENEER.

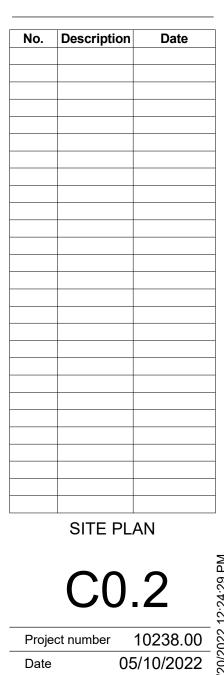
- ELECTRONIC SIGN. BRICK VENEER.

_ FOOTING - SEE STRUCTURAL





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GENERAL:

- 1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES HAVING AUTHORITY OVER THIS PROJECT, PRIOR TO BEGINNING CONSTRUCTION.
- AND SPECIFICATIONS, AND SHALL CONFORM TO ALL CODES, ORDINANCES, RESTRICTIONS, AND STANDARDS OF ALL AGENCIES HAVING JURISDICTION OVER THE SITE.
- AND OTHER PROPERTIES. ANY PROPERTY DAMAGED OR UTILITIES DISTURBED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND/OR GOVERNING AGENCY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A PROPER TRAFFIC CONTROL PLAN, IF APPLICABLE,
- MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- DEVICES DURING CONSTRUCTION FOR THE PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WATERWAYS.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A BUILDING SITE FREE OF DRAINAGE PROBLEMS, WITH NO ADVERSE
- PERMISSION OR SECURING EASEMENTS FROM THE OWNERS.

EFFECTS TO ADJACENT PROPERTIES.

- 10. ALL STREETS, SIDEWALKS, AND CROSSINGS ARE TO BE KEPT OPEN AND IN A SAFE CONDITION FOR THEIR INTENDED USE UNLESS
- WITH APPROVED CONSTRUCTION PRACTICES AS OUTLINED IN THE SPECIFICATIONS. 12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- 13. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT (PAINT, OIL, GREASE AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH SPCC REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATER TIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH ADEM REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ONSITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING TRASH FROM THE SITE TO ENTER THE STORM DRAINAGE SYSTEM.
- 14. ALL EROSION CONTROL DEVICES SHALL BE REMOVED AT THE END OF THE PROJECT.
- AT THE CONTRACTOR'S EXPENSE.
- TO THE ENGINEER. THE CONTRACTOR SHALL NOT ADJUST THE DISCREPANCY WITHOUT ENGINEER'S PERMISSION. 17. CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCES ARE THE RESPONSIBILITY OF THE
- CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEANS TO MAINTAIN AND PROTECT THE STRUCTURAL INTEGRITY OF ALL NEW CONSTRUCTION WORK AND EXISTING FACILITIES ALL STAGES.
- ESTABLISHED BY OSHA.

CONCRETE:

- 1. REFERENCE GENERAL NOTES.
- 4 PERCENT AND 8 PERCENT AIR ENTRAINMENT, UNLESS NOTED.
- 4 PERCENT AND 8 PERCENT AIR ENTRAINMENT, UNLESS NOTED.
- 4. AN EXPANSION JOINT SHALL BE PROVIDED WHEN A CONCRETE MEMBER JOIN ANOTHER EXISTING CONCRETE MEMBER. THIS WILL INCLUDE JUNCTIONS OF SIDE WALKS, SIDE WALK WITH CONCRETE PADS, AND SIDEWALK WITH CURB.
- 5. CONTRACTION JOINTS SHALL BE PROVIDED AS SHOWN ON CONSTRUCTION PLANS.

GRADING, EXCAVATION, & FILLING:

- 1. REFERENCE GENERAL NOTES. 2. ALL TOPSOIL AND OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF BUILDING SITES OR OTHER DESIGNATED AREAS SHALL BE EXCAVATED AND REMOVED. DEPTH OF REMOVAL SHALL BE THAT REQUIRED
- TO REACH AN APPROVED SUITABLE MATERIAL. 3. REGARDLESS OF THE MATERIALS ENCOUNTERED, ALL EXCAVATION, SHALL BE CONSIDERED AS UNCLASSIFIED EXCAVATION.
- 4. THE CONTRACTOR MUST DRAW HIS OWN CONCLUSIONS AS TO THE CONDITIONS TO BE ENCOUNTERED. THE OWNER DOES NOT GIVE ANY GUARANTEE AS TO THE ACCURACY OF THE DATA AND NO CLAIM WILL BE CONSIDERED FOR ADDITIONAL COMPENSATION.
- MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER THAT "SPILLAGE" INTO THE CREEK OR CONNECTING DRAINAGE CHANNELS WILL NOT OCCUR.
- THE REQUIRED MATERIAL FOR DITCH BACKFILLING, WHERE ALLOWED.
- AND SATISFACTORILY COMPACTED. THE CONTRACTOR SHALL HAVE ADEQUATE EQUIPMENT TO MANIPULATE AND AERATE SOILS WITH EXCESSIVE MOISTURE SO THAT PLACEMENT AND COMPACTION CAN BE EXPEDITED.
- MATERIAL, DENSITY, MOISTURE CONTENT, AND ALSO SHALL NOT EXCEED 6 INCH IN DEPTH BEFORE BEGINNING COMPACTION.

2. ALL CONSTRUCTION WORK, EQUIPMENT, WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION PLANS

3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF BENCH MARKS, ALL PROPERTY CORNERS, MARKED TREES, UTILITIES,

4. ON-SITE JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHICH INCLUDES ALL CONSTRUCTION STAFF, PERSONNEL AT THE FACILITY, AND VISITORS.

FOR PUBLIC SAFETY ADJACENT TO THE CONSTRUCTION SITE. THE TRAFFIC CONTROL PLAN MUST BE IN ACCORDANCE WITH THE ALABAMA

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL

7. THE CONTRACTOR SHALL INSTALL ALL NECESSARY EROSION CONTROL DEVICES PRIOR TO COMMENCING EARTHWORK OPERATIONS.

9. THE CONTRACTOR SHALL NOT PERFORM ANY TYPE OF WORK ON ADJACENT PROPERTIES OR RIGHTS OF WAYS WITHOUT WRITTEN

WRITTEN APPROVAL TO CLOSE THE STREET IS OBTAINED FROM AUTHORITIES HAVING JURISDICTION, WITH A COPY TO THE ENGINEER.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING A PROPOSED SEQUENCE OF CONSTRUCTION FOR APPROVAL BY THE ARCHITECT/PROJECT MANAGER PRIOR TO STARTING CONSTRUCTION OPERATIONS, THE SEQUENCE OF CONSTRUCTION SHALL BE CONSISTENT

15. ANY TREES OR SHRUBBERY DAMAGED OR DISTURBED DURING CONSTRUCTION SHALL BE REPLACED TO THE OWNER'S SATISFACTION,

16. IN CASE OF ANY DISCREPANCY IN DRAWINGS OR TECHNICAL SPECIFICATIONS, THE MATTER SHALL BE IMMEDIATELY SUBMITTED

18. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, & LOCAL SAFETY RULES AND REGULATIONS INCLUDING THOSE

2. CLASS A CONCRETE SHALL DEVELOP 4,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS WITH BETWEEN

3. CLASS B CONCRETE SHALL DEVELOP 3,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS WITH BETWEEN

5. WHEN EXCAVATING ALONG THE EDGE OF ANY CREEK OR CONNECTING DRAINAGE CHANNELS, ALL EXCAVATED

6. THE CONTRACTOR SHALL CONDUCT GRADING OPERATIONS IN SUCH A MANNER AS TO ALLOW AMPLE QUANTITIES OF "SELECTED SOILS" TO BE HELD IN RESERVE OR STOCKPILED, AS NECESSARY, TO PROVIDE

7. THE NEED FOR AERATION AND DRYING OF SOME OF THE SOILS MAY BE REQUIRED BEFORE THE SOIL CAN BE PLACED

8. EARTH FILLING SHALL BE DONE IN SUCCESSIVE LAYERS AND EACH LAYER OF EARTH SHALL BE UNIFORM AS TO

EROSION AND SEDIMENT CONTROL:

- 1. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL CONFORM TO THE LATEST EROSION AND SEDIMENT CONTROL REGULATIONS FOR THE STATE, COUNTY, OR CITY.
- 2. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOILED DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC. FROM THE DRAINAGE AREAS SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
- 3. EROSION CONTROL MEASURES TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES. TYPE C SILT FENCE TO BE USED UNLESS OTHERWISE INDICATED.
- 4. SILT FENCE MUST MEET REQUIREMENTS OF THE SPECIFICATIONS CONTAINED IN THE CONSTRUCTION DETAILS OR AN EQUIVALENT PRODUCT APPROVED BY THE OWNER'S REPRESENTATIVE.
- 5. A STABILIZED CONSTRUCTION EXIT SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITIES. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLE OR SITE ONTO PUBLIC ROADWAY OR ONTO STORM DRAIN MUST BE REMOVED IMMEDIATELY.
- 6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS. THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE ACTIVITY SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS. IF WETLANDS EXIST ON-SITE, ANY CLEARING MUST BE IN ACCORDANCE WITH A WETLANDS PERMIT.
- 7. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES/EXITS, ALL PERIMETER EROSION DEVICES AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- 8. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- 9. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY ENGINEER OR OWNER'S REPRESENTATIVE. 11. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED
- FOR EROSION CONTROL. 12. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.
- 13. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS. 14. ALL OPEN SWALES MUST BE GRASSED AND RIP-RAP PLACED AS REQUIRED TO CONTROL EROSION. A MINIMUM OF 4.5 SQUARE YARDS OF 50-LB STONES SHALL BE PLACED AT ALL DOWNSTREAM HEADWALLS. THE PLACEMENT OF RIP-RAP AT THE
- DOWNSTREAM HEADWALLS SHALL BE PLACED IMMEDIATELY UPON THE INSTALLATION OF PIPES AND DRAINAGE DITCHES. 15. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING. 16. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
- 17. EROSION AND SEDIMENT CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR COMPLIANCE, INSTALLATION, MAINTENANCE AND REMOVAL AS REQUIRED BY THE REGULATIONS OF THE STATE. THE INSTALLATION OF THE REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION.
- 18. THE CONTRACTOR TO MAINTAIN ON-SITE DAILY LOG OF ALL MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES. LOGS SHALL BE MADE AVAILABLE FOR INSPECTION AT ALL TIMES.
- 19. WHERE MORE THAN 1 ACRE IS DISTURBED, THE CONTRACTOR IS RESPONSIBLE TO SUBMIT NPDES NOTICE OF INTENT AND NOTICE OF TERMINATION TO THE APPROPRIATE STATE AGENCY OR TO LOCAL GOVERNING AUTHORITY.
- 20. ALL SLOPES STEEPER THAN 3:1 SHALL BE TREATED WITH STAKED SOD OR SEEDED AND STABILIZED WITH ADEQUATE EROSION CONTROL BLANKET (S150 FABRIC OR EQUAL AS MIN).
- 21. ALL EROSION CONTROL WORK SHALL BE AS PER THE "FIELD GUIDE FOR EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES IN ALABAMA".

PAVEMENT MARKING

1. ALL PAVEMENT MARKING AND MATERIAL SHALL MEET CITY OF SELMA STANDARDS AND ALDOT STANDARDS

TRAFFIC CONTROL NOTES

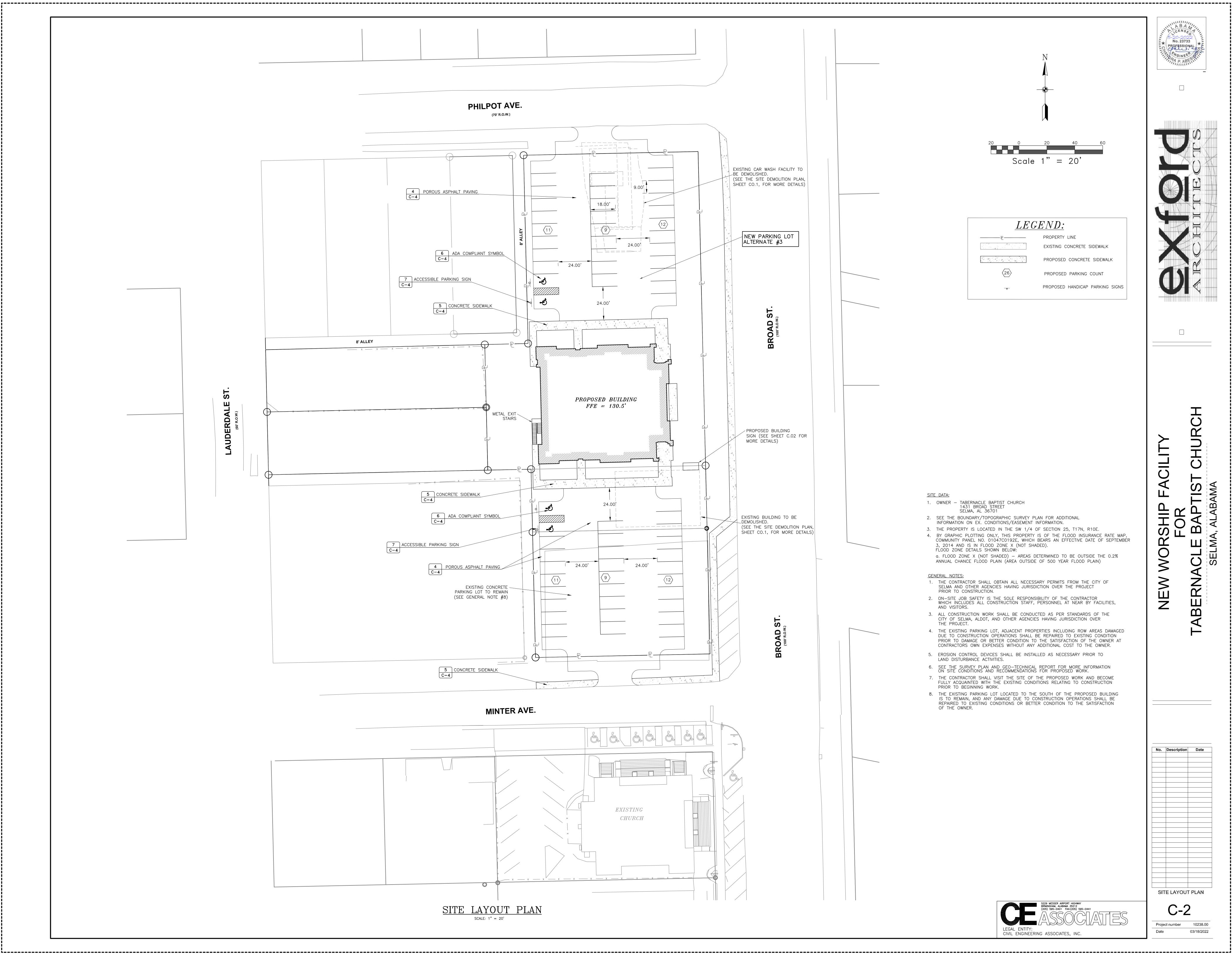
CONDITION

- 1. THE CONTRACTOR SHALL OBTAIN REQUIRED PERMITS AND COORDINATE TRAFFIC CONTROL WORK WITH THE CITY OF SELMA PRIOR TO ANY CONSTRUCTION WORK.
- 2. ROADWAYS AND DRIVEWAYS SHALL REMAIN OPEN DURING CONSTRUCTION, UNLESS THE CLOSURE IS APPROVED BY THE CITY OF SELMA.
- 3. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN TRAFFIC CONTROL DEVICES FOR ALL ROADWAY OR DRIVEWAY CONSTRUCTION LOCATED WITHIN AND ADJACENT TO ROADWAYS IN ACCORDANCE WITH THESE PLANS AND THE LATEST EDITION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6.
- 4. THE DIMENSIONS SHOWN OR SPECIFIED FOR LOCATING TRAFFIC CONTROLS ARE NOMINAL. THE SIGNS SHALL BE LOCATED TO BEST FIT EXISTING CONDITIONS AND PROVIDE MAXIMUM VISIBILITY TO MOTORISTS.
- 5. THE CONTRACTOR SHALL TAKE EVERY REASONABLE PRECAUTION TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC AND THE WORKERS ON SITE. IF CONDITIONS ARE FOUND TO BE HAZARDOUS BY CITY PERSONNEL, THE CONTRACTOR SHALL IMMEDIATELY TAKE REMEDIAL ACTION TO ELIMINATE THE HAZARDOUS CONDITIONS.
- 6. IF CONSTRUCTION OPERATIONS ARE WITHIN TWO FEET OF THE TRAVEL LANE OF AN OPEN ROAD, IT WILL BE NECESSARY TO CLOSE THE LANE IN ACCORDANCE WITH THE MUTCD RECOMMENDATION, UNLESS OTHERWISE APPROVED. 7. THE CONTRACTOR SHALL KEEP OPEN ROADWAYS CLEAN AND FREE OF CONSTRUCTION DEBRIS, DIRT,
- LOOSE GRAVEL, OR OTHER OBJECTIONABLE MATERIAL THAT MAY CAUSE HAZARDOUS DRIVING CONDITIONS. 8. TRAFFIC CONTROL DEVICES SHALL MEET THE STANDARD MATERIAL AND INSTALLATION REQUIREMENTS SPECIFIED IN THE LATEST EDITION OF THE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. WITH MINIMUM TYPE III HIGH-INTENSITY RETROREFLECTIVE SHEETING AND IN GOOD









C-2 Project number Date

SITE LAYOUT PLAN

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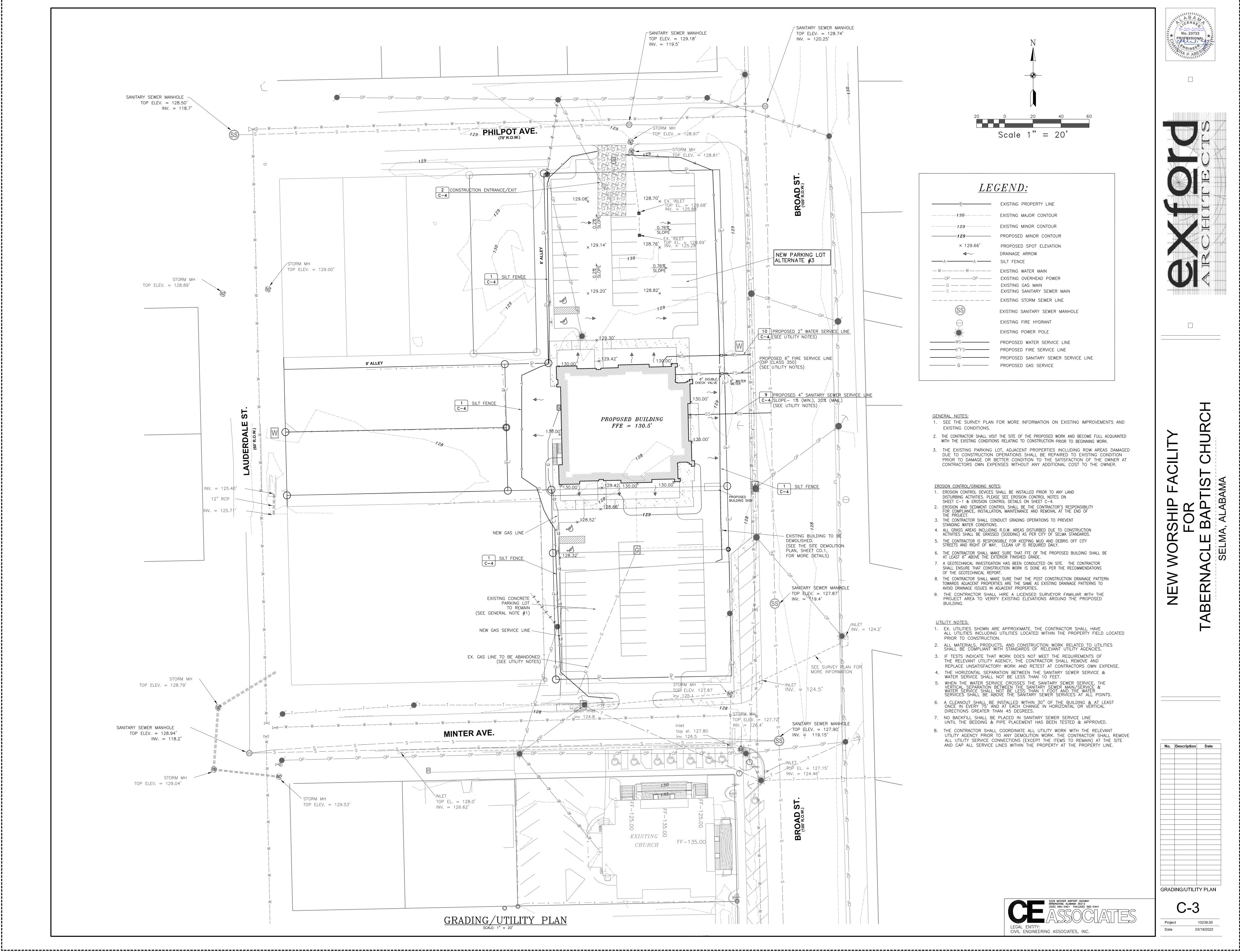
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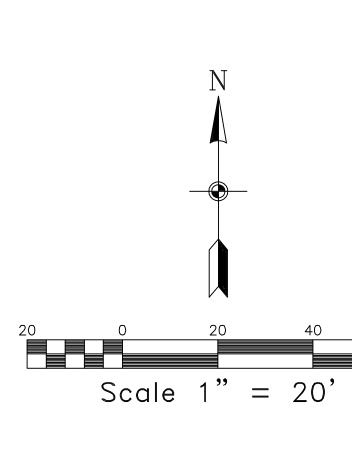
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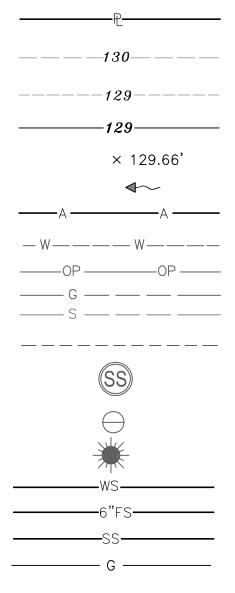
SHIP FOR

10238.00 03/18/2022





LEGEND:



EXISTING PROPERTY LINE
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MINOR CONTOUR
PROPOSED SPOT ELEVATION DRAINAGE ARROW SILT FENCE
EXISTING WATER MAIN EXISTING OVERHEAD POWER EXISTING GAS MAIN EXISTING SANITARY SEWER M EXISTING STORM SEWER LINE
EXISTING SANITARY SEWER M
EXISTING FIRE HYDRANT EXISTING POWER POLE
PROPOSED WATER SERVICE L PROPOSED FIRE SERVICE LIN PROPOSED SANITARY SEWER PROPOSED GAS SERVICE

GENERAL NOTES:

- 1. SEE THE SURVEY PLAN FOR MORE INFORMATION ON EXISTING IMPROVEMENTS AND EXISTING CONDITIONS.
- 2. THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULL ACQUAINTED WITH THE EXISTING CONDITIONS RELATING TO CONSTRUCTION PRIOR TO BEGINNING WORK.
- 3. THE EXISTING PARKING LOT, ADJACENT PROPERTIES INCLUDING ROW AREAS DAMAGED DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED TO EXISTING CONDITION PRIOR TO DAMAGE OR BETTER CONDITION TO THE SATISFACTION OF THE OWNER AT CONTRACTORS OWN EXPENSES WITHOUT ANY ADDITIONAL COST TO THE OWNER.

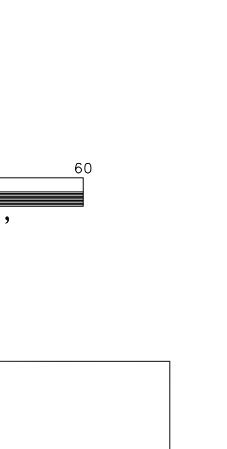
EROSION CONTROL/GRADING NOTES: 1. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND

- DISTURBING ACTIVITIES. PLEASE SEE EROSION CONTROL NOTES ON SHEET C-1 & EROSION CONTROL DETAILS ON SHEET C-4.
- 2. EROSION AND SEDIMENT CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR COMPLIANCE, INSTALLATION, MAINTENANCE AND REMOVAL AT THE END OF THE PROJECT.
- 3. THE CONTRACTOR SHALL CONDUCT GRADING OPERATIONS TO PREVENT STANDING WATER CONDITIONS.
- 4. ALL GRASS AREAS INCLUDING R.O.W. AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE GRASSED (SODDING) AS PER CITY OF SELMA STANDARDS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING MUD AND DEBRIS OFF CITY STREETS AND RIGHT OF WAY. CLEAN UP IS REQUIRED DAILY.
- 6. THE CONTRACTOR SHALL MAKE SURE THAT FFE OF THE PROPOSED BUILDING SHALL BE AT LEAST 6" ABOVE THE EXTERIOR FINISHED GRADE.
- 7. A GEOTECHNICAL INVESTIGATION HAS BEEN CONDUCTED ON SITE. THE CONTRACTOR SHALL ENSURE THAT CONSTRUCTION WORK IS DONE AS PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- 8. THE CONTRACTOR SHALL MAKE SURE THAT THE POST CONSTRUCTION DRAINAGE PATTERN TOWARDS ADJACENT PROPERTIES ARE THE SAME AS EXISTING DRAINAGE PATTERNS TO AVOID DRAINAGE ISSUES IN ADJACENT PROPERTIES.
- 9. THE CONTRACTOR SHALL HIRE A LICENSED SURVEYOR FAMILIAR WITH THE PROJECT AREA TO VERIFY EXISTING ELEVATIONS AROUND THE PROPOSED BUILDING.

<u>UTILITY NOTES:</u>

- 1. EX. UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES INCLUDING UTILITIES LOCATED WITHIN THE PROPERTY FIELD LOCATED PRIOR TO CONSTRUCTION. 2. ALL MATERIALS, PRODUCTS, AND CONSTRUCTION WORK RELATED TO UTILITIES SHALL BE COMPLIANT WITH STANDARDS OF RELEVANT UTILITY AGENCIES.
- 3. IF TESTS INDICATE THAT WORK DOES NOT MEET THE REQUIREMENTS OF
- THE RELEVANT UTILITY AGENCY, THE CONTRACTOR SHALL REMOVE AND REPLACE UNSATISFACTORY WORK AND RETEST AT CONTRACTORS OWN EXPENSE.
- 4. THE HORIZONTAL SEPARATION BETWEEN THE SANITARY SEWER SERVICE & WATER SERVICE SHALL NOT BE LESS THAN 10 FEET.
- 5. WHEN THE WATER SERVICE CROSSES THE SANITARY SEWER SERVICE, THE VERTICAL SEPARATION BETWEEN THE SANITARY SEWER MAIN/SERVICE & WATER SERVICE SHALL NOT BE LESS THAN 1 FOOT AND THE WATER SERVICES SHALL BE ABOVE THE SANITARY SEWER SERVICES AT ALL POINTS.
- . A CLEANOUT SHALL BE INSTALLED WITHIN 30" OF THE BUILDING & AT LEAST ONCE IN EVERY 75' AND AT EACH CHANGE IN HORIZONTAL OR VERTICAL DIRECTIONS GREATER THAN 45 DEGREES.
- NO BACKFILL SHALL BE PLACED IN SANITARY SEWER SERVICE LINE UNTIL THE BEDDING & PIPE PLACEMENT HAS BEEN TESTED & APPROVED.
- 8. THE CONTRACTOR SHALL COORDINATE ALL UTILITY WORK WITH THE RELEVANT UTILITY AGENCY PRIOR TO ANY DEMOLITION WORK. THE CONTRACTOR SHALL REMOVE ALL UTILITY SERVICE CONNECTIONS (EXCEPT THE ITEMS TO REMAIN) AT THE SITE AND CAP ALL SERVICE LINES WITHIN THE PROPERTY AT THE PROPERTY LINE.

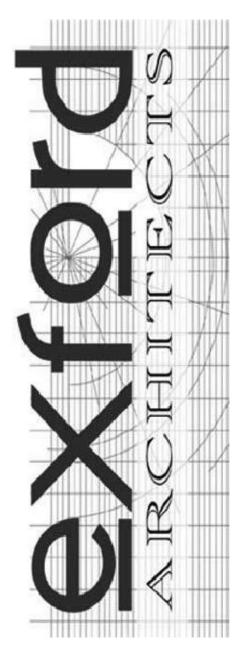




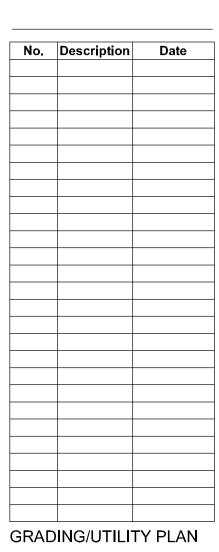
MAIN MANHOLE

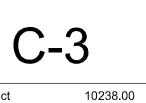
ER SERVICE LINE





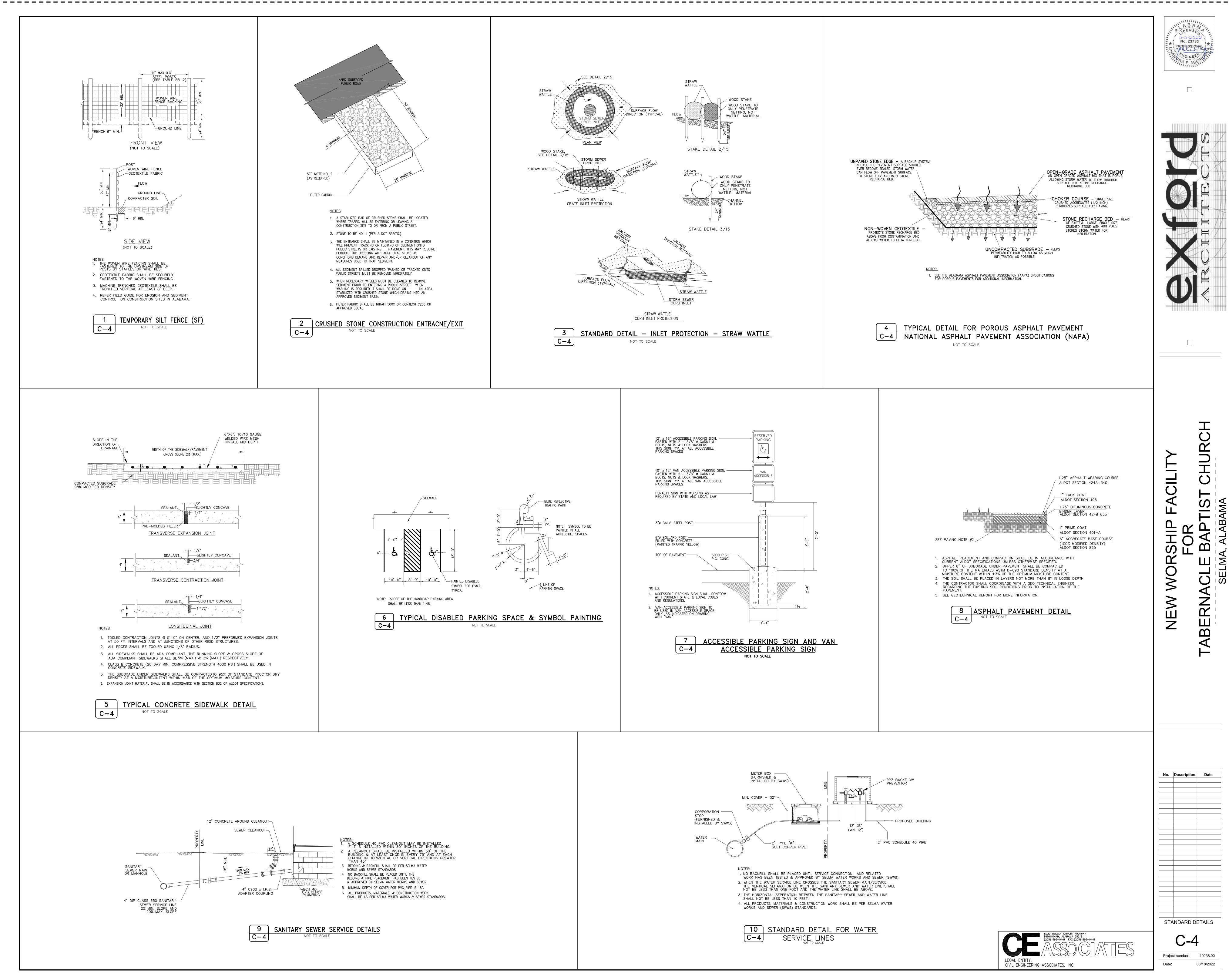
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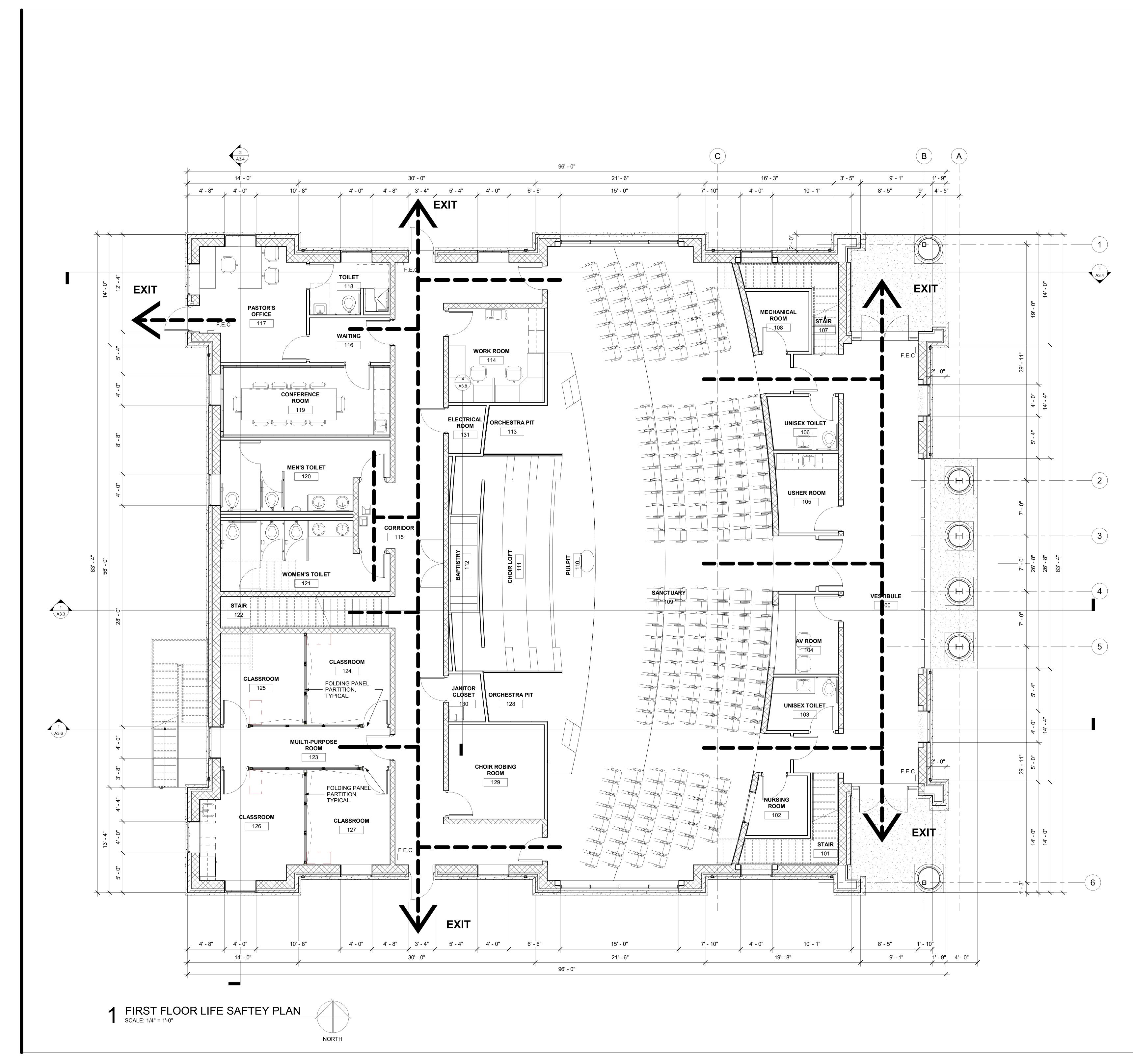


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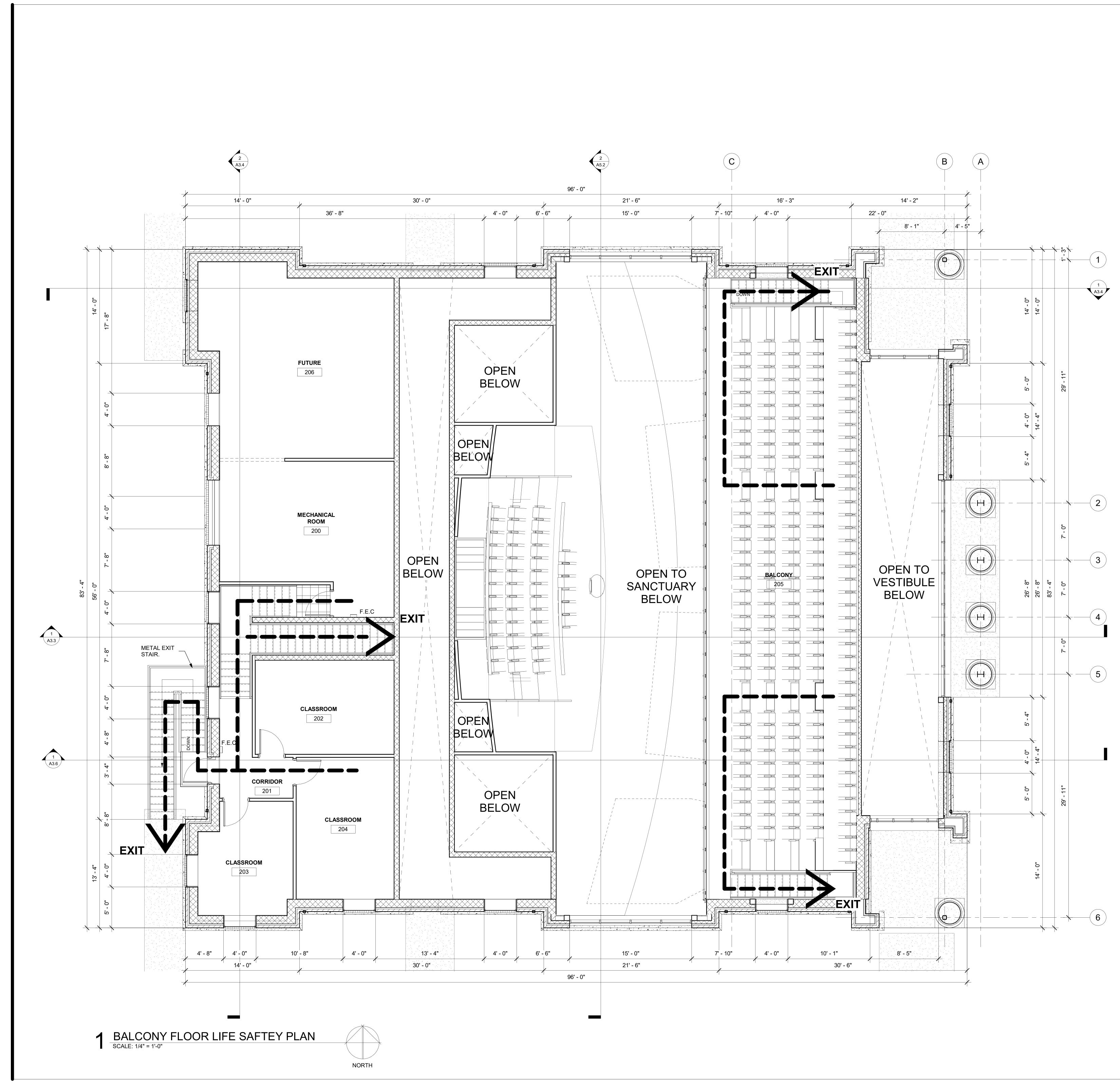
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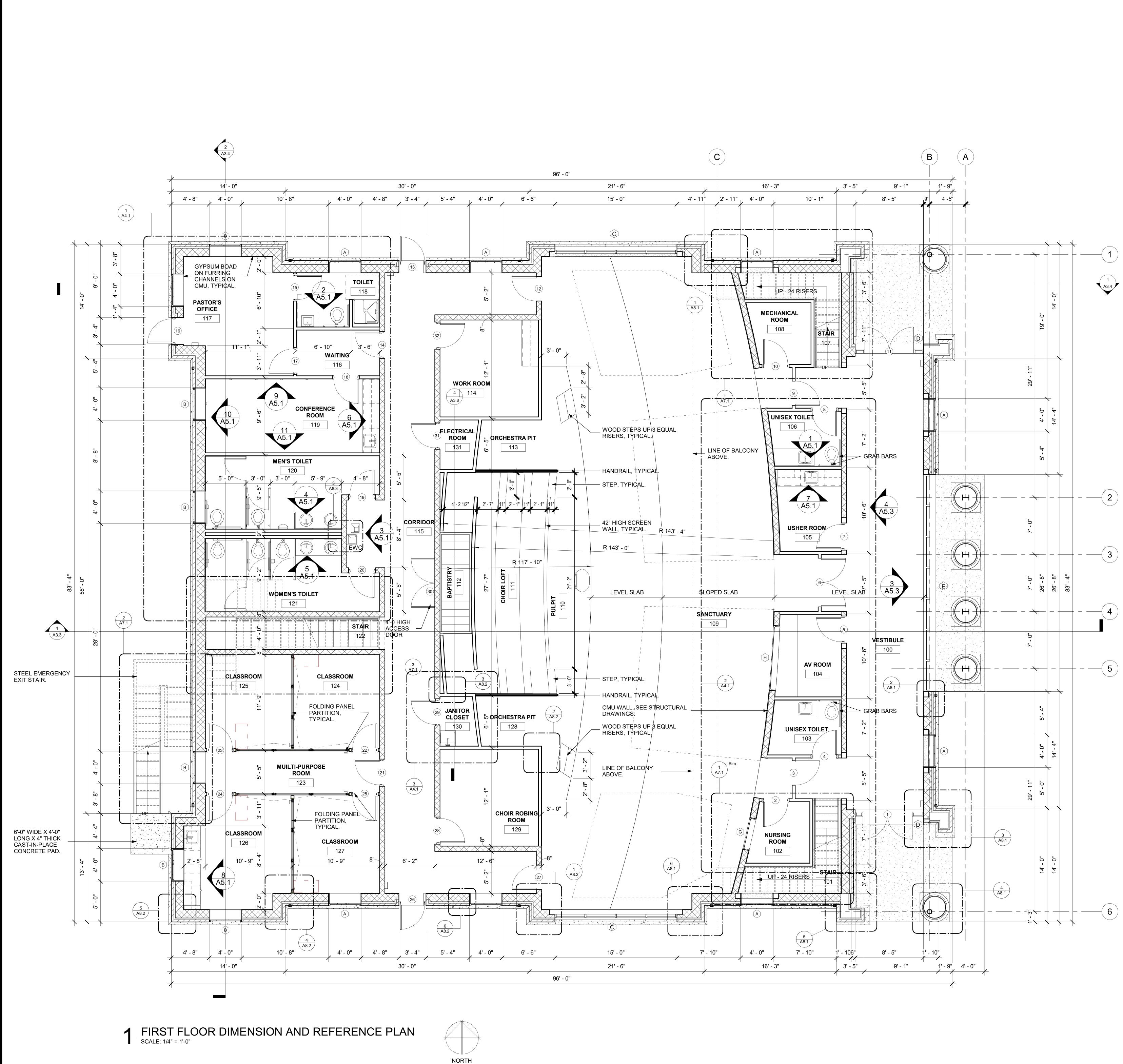
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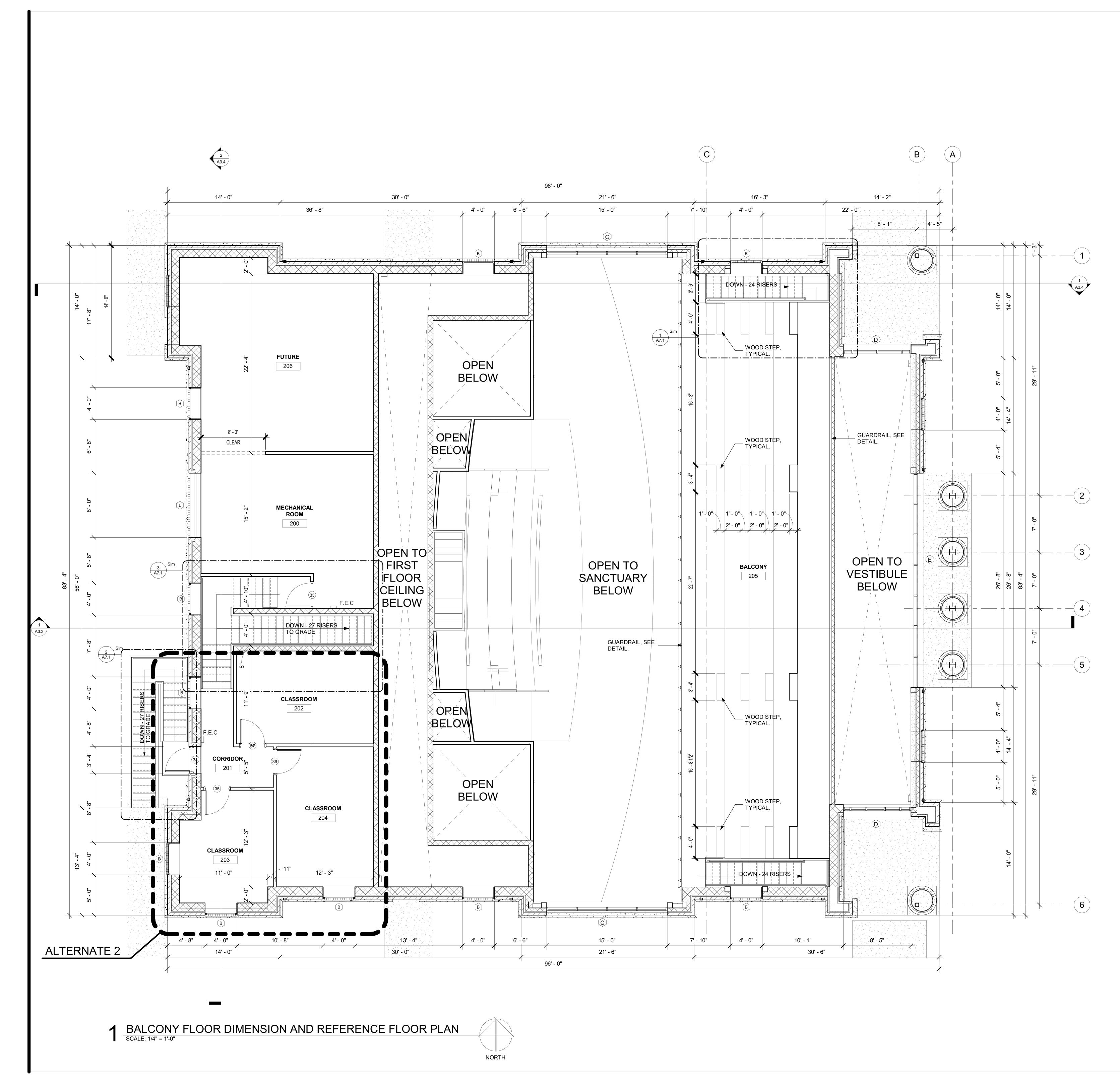




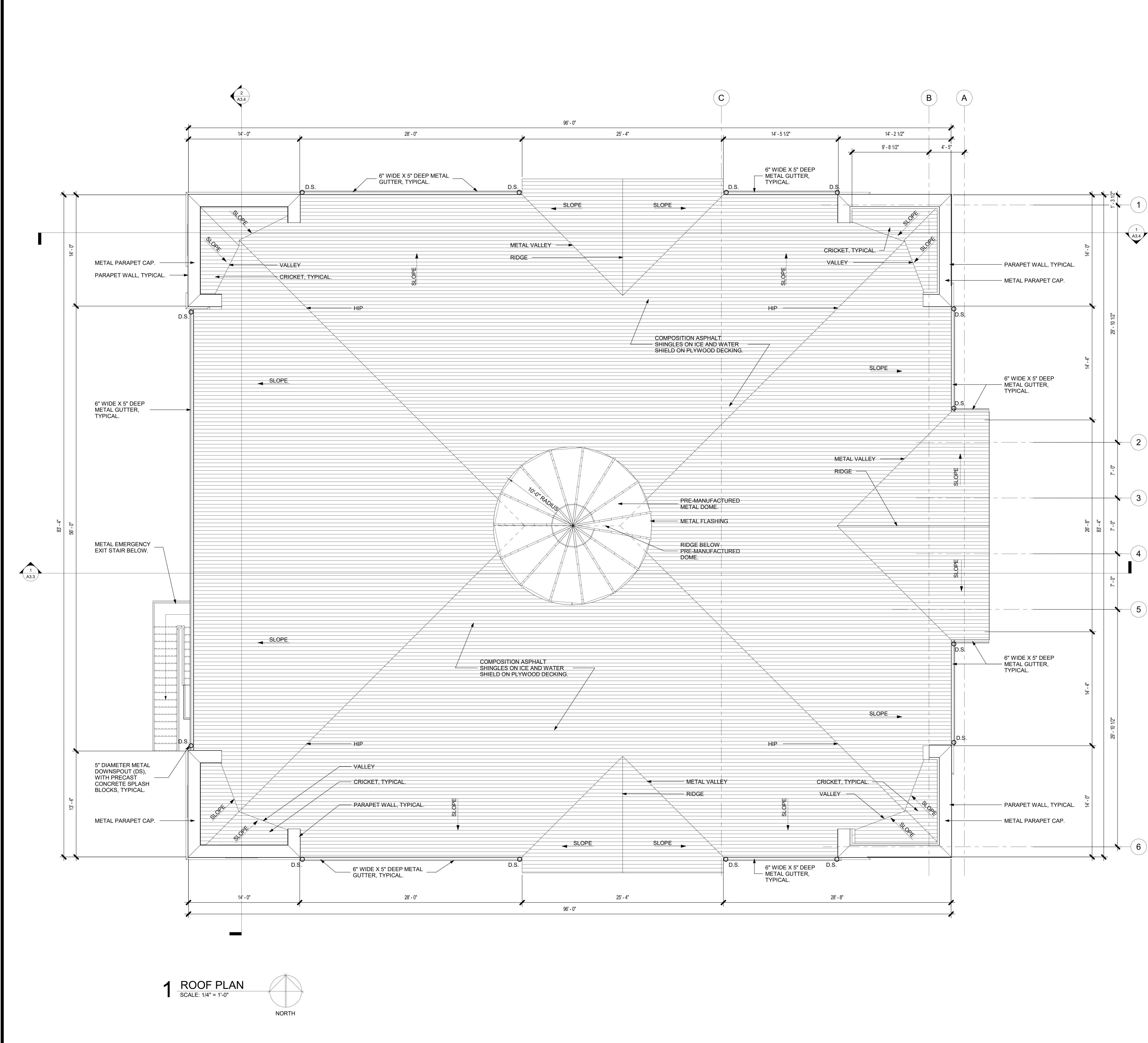


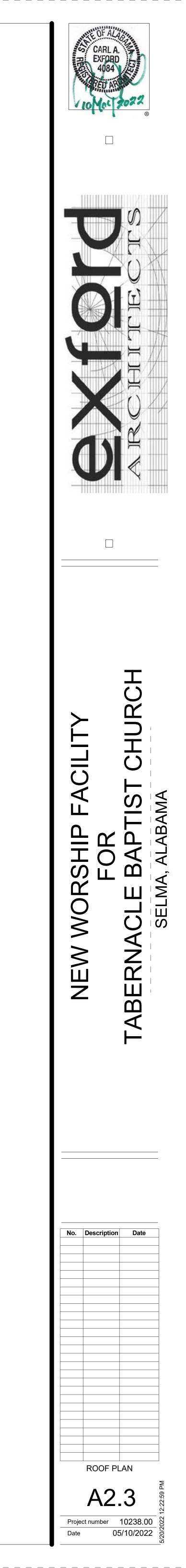


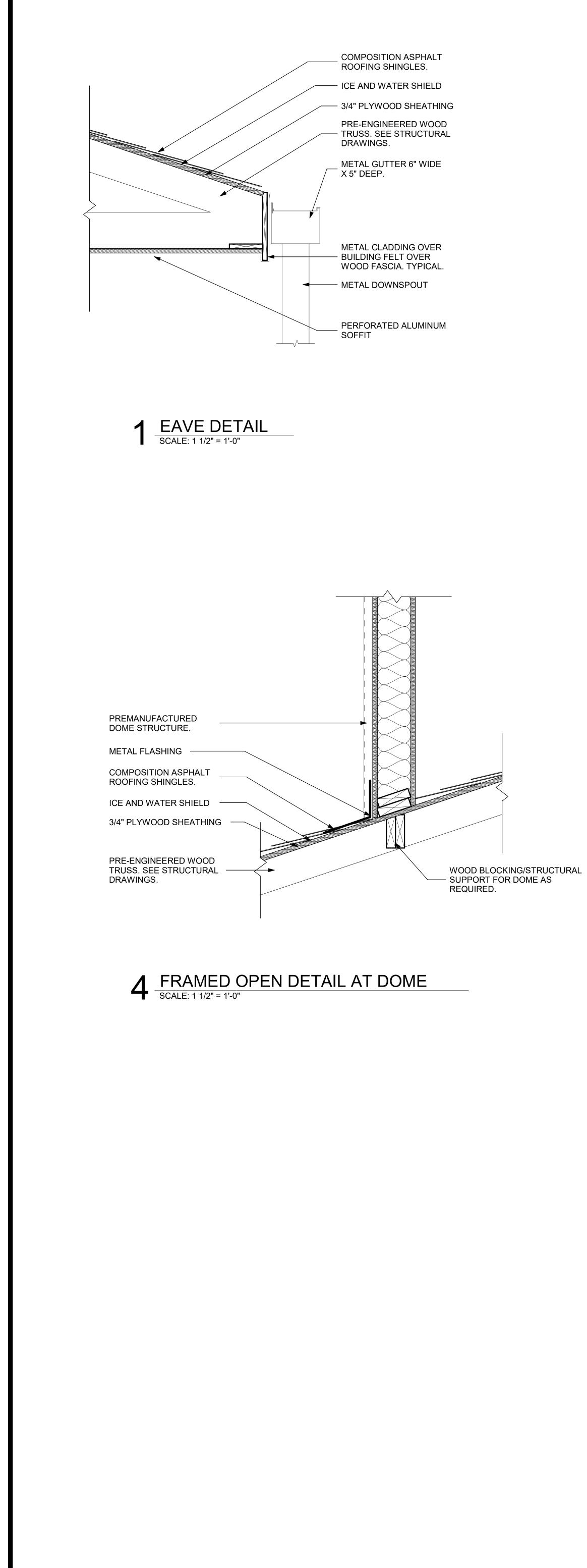












5 PIPE THOUGH ROOF DETAIL SCALE: 1 1/2" = 1'-0"



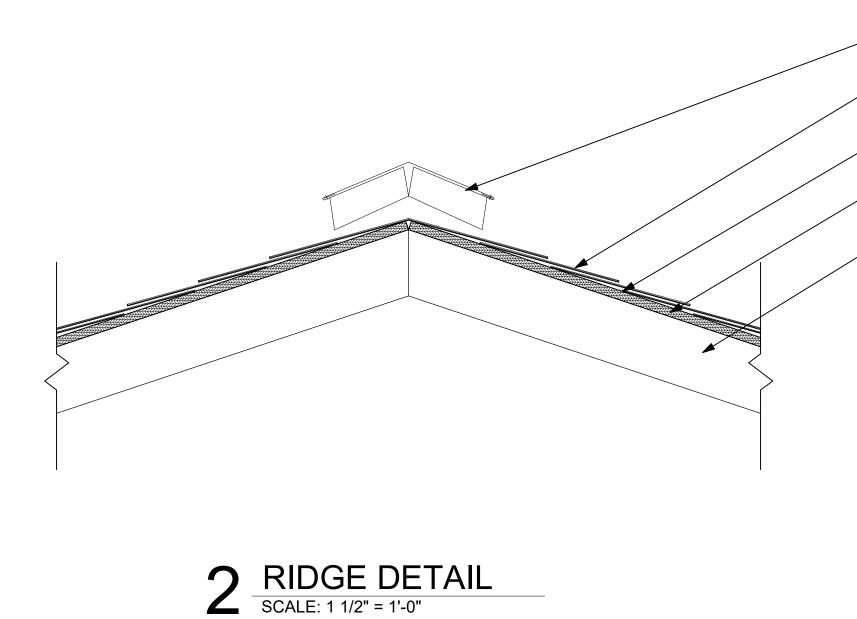
METAL FLASHING -----

COMPOSITION ASPHALT

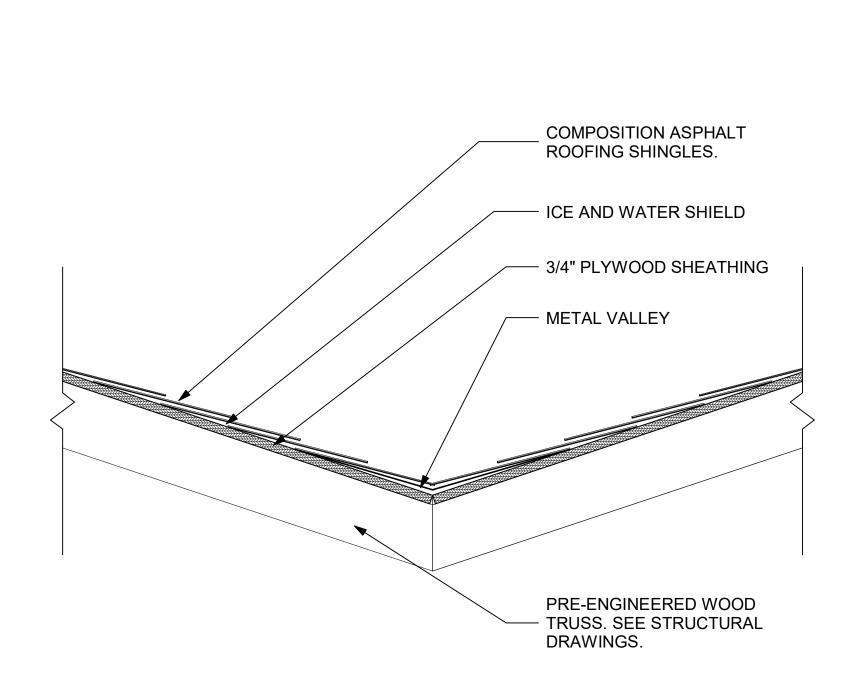
ICE AND WATER SHIELD

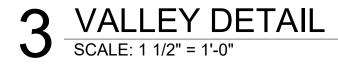
3/4" PLYWOOD SHEATHING

ROOFING SHINGLES.



- RIDGE VENT _ COMPOSITION ASPHALT ROOFING SHINGLES. — ICE AND WATER SHIELD — 3/4" PLYWOOD SHEATHING PRE-ENGINEERED WOOD — TRUSS. SEE STRUCTURAL DRAWINGS.





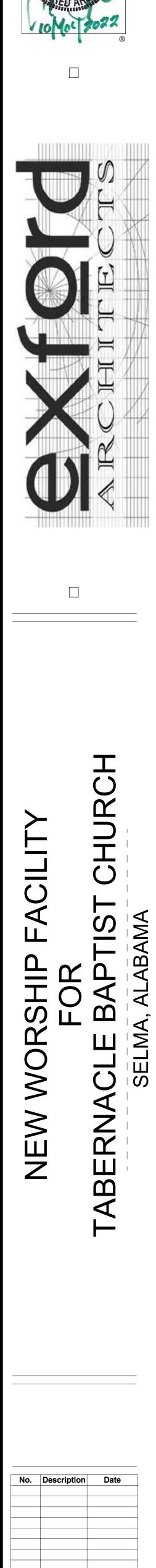
- PIPE PENETRATION

PRE-ENGINEERED WOOD — TRUSS. SEE STRUCTURAL DRAWINGS.

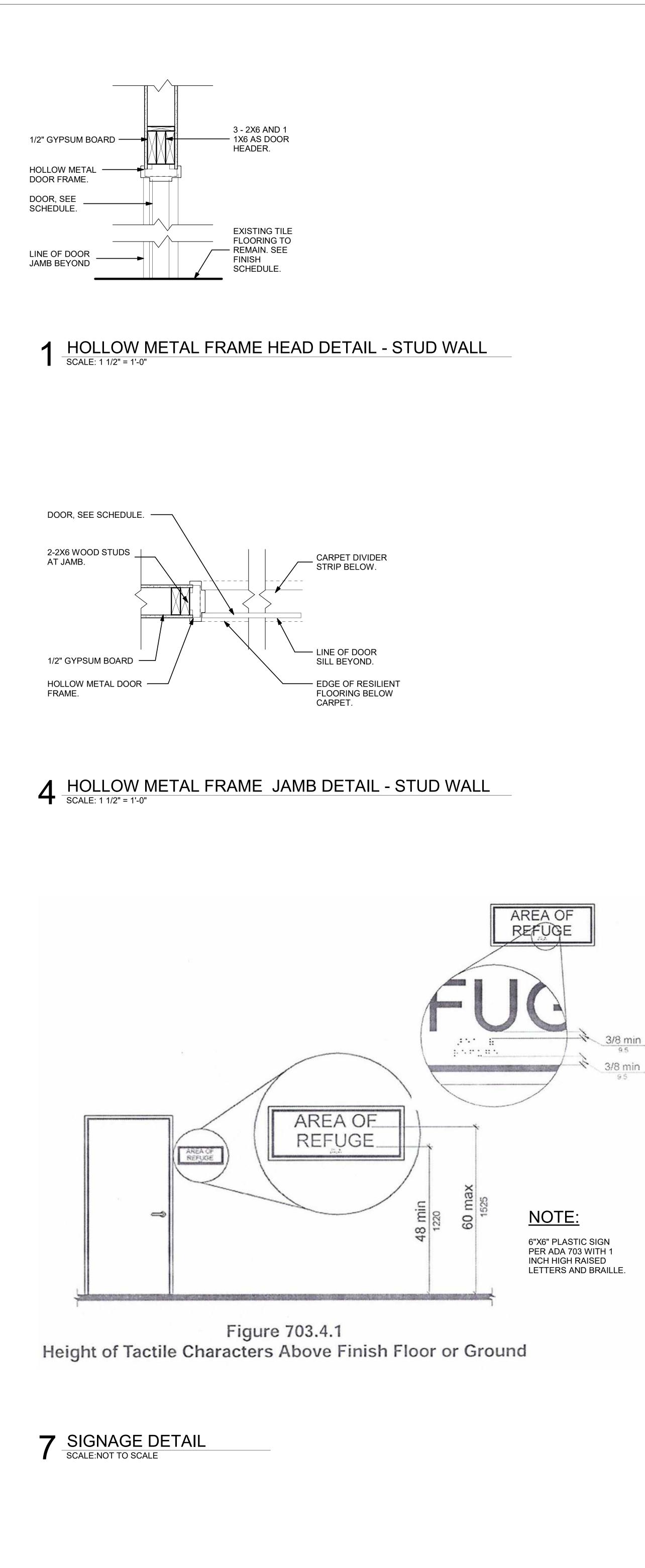
— WOOD BLOCKING

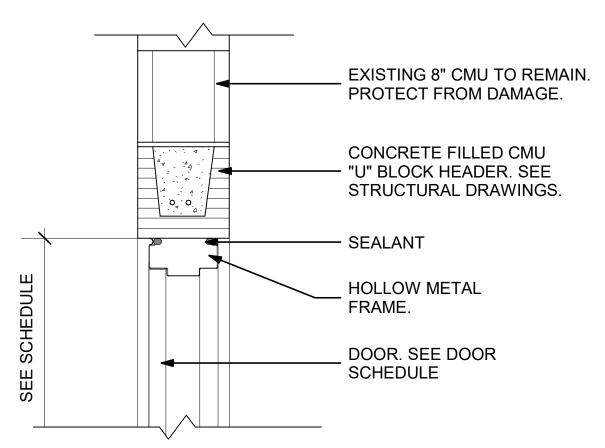
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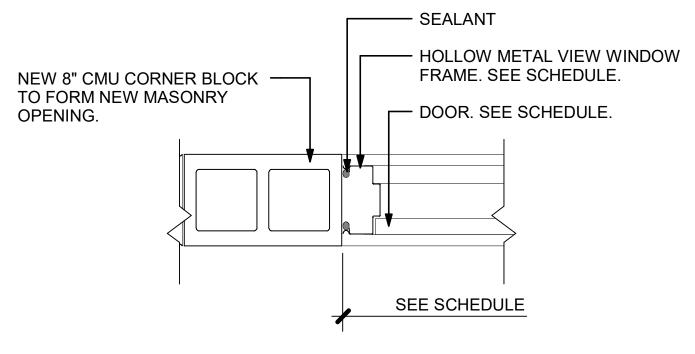


ROOF DETAILS A2.4 Project number 10238.00 05/10/2022 Date

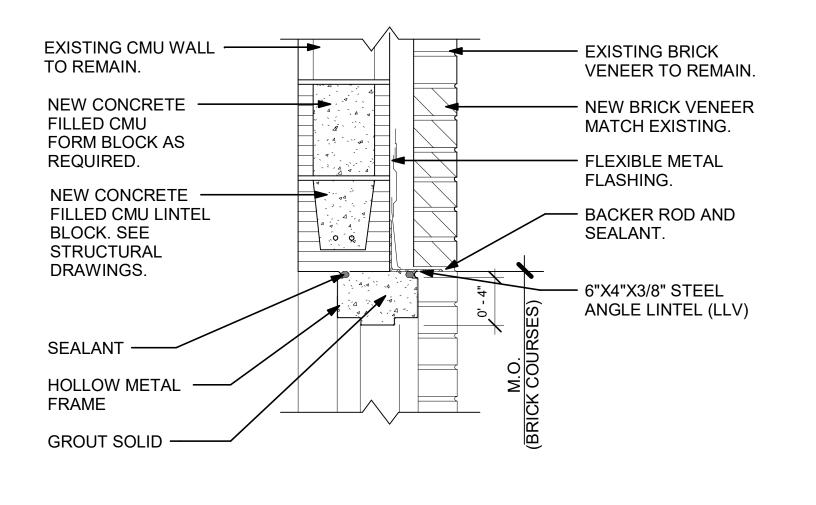




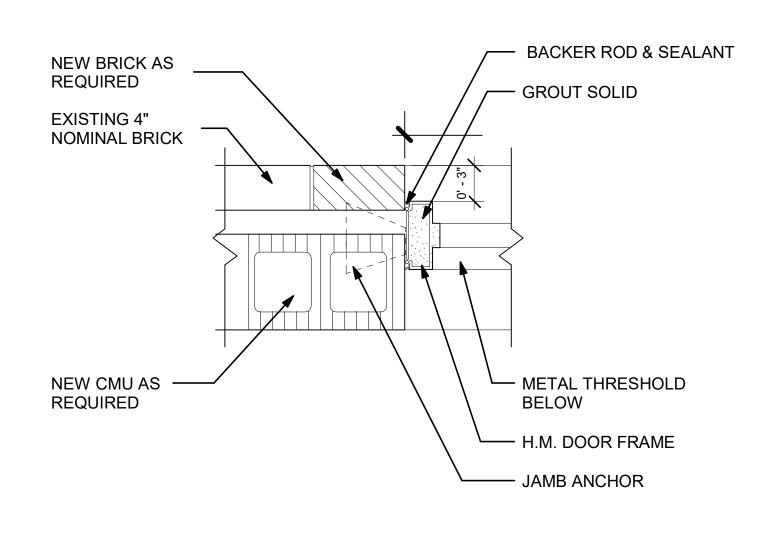
2 HOLLOW METAL FRAME HEAD DETAIL - CMU WALL SCALE: 1 1/2" = 1'-0"



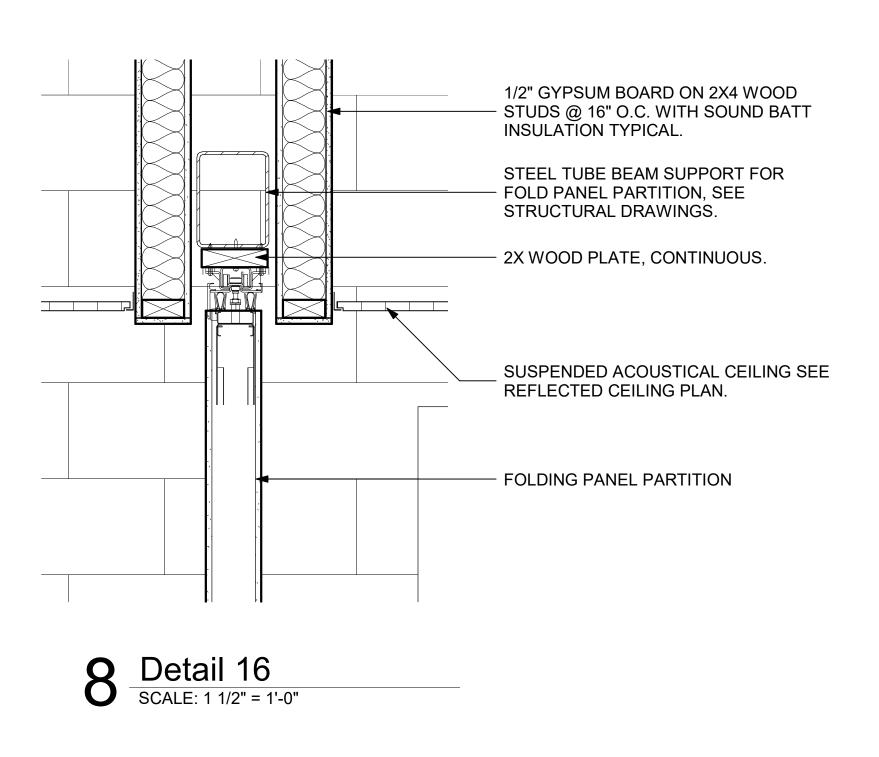
5 HOLLOW METAL FRAME JAMB DETAIL - CMU WALL SCALE: 1 1/2" = 1'-0"

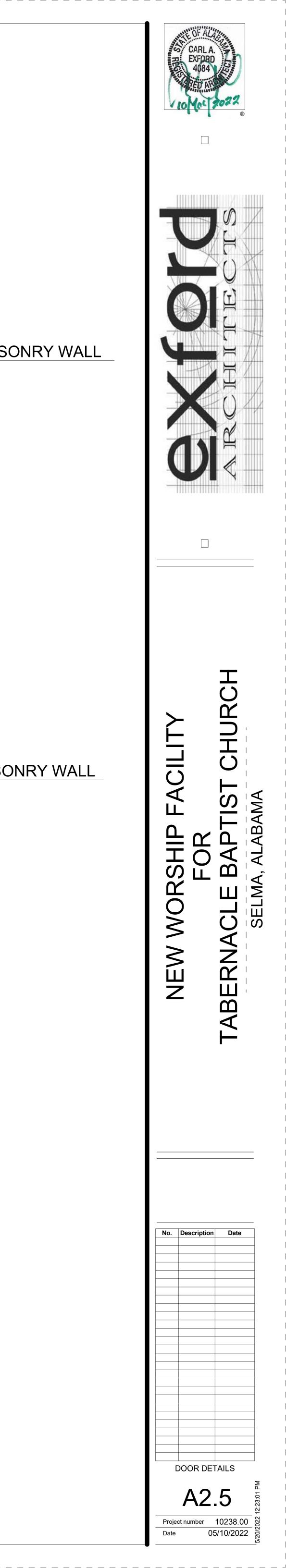


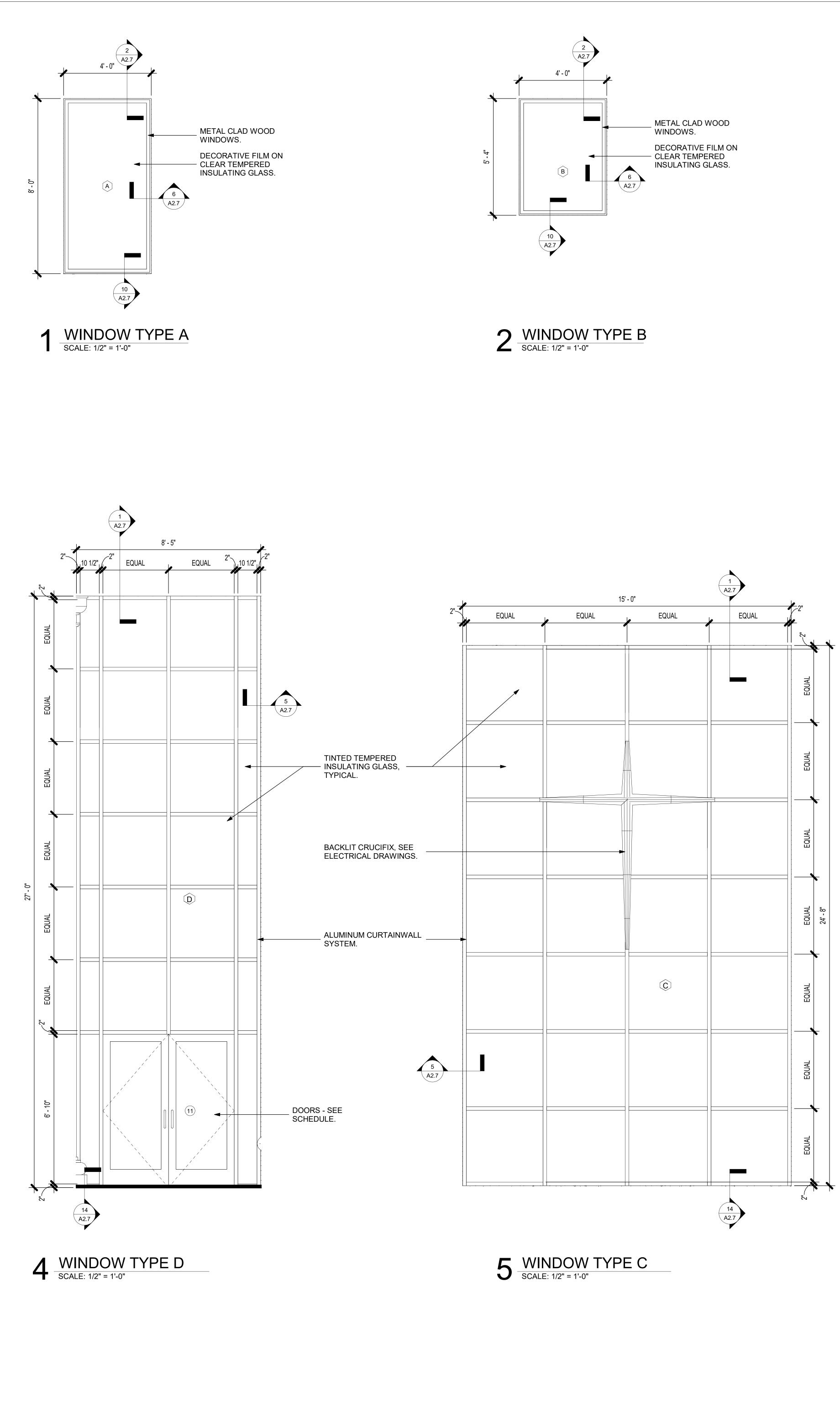
3 HOLLOW METAL FRAME HEAD DETAIL - EXTERIOR MASONRY WALL SCALE: 1 1/2" = 1'-0"

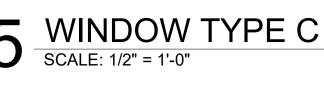


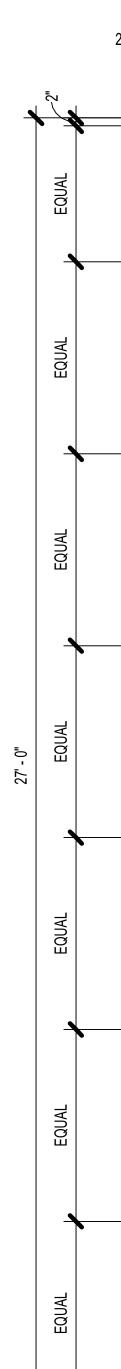
6 HOLLOW METAL FRAME JAMB DETAIL - EXTERIOR MASONRY WALL SCALE: 1 1/2" = 1'-0"







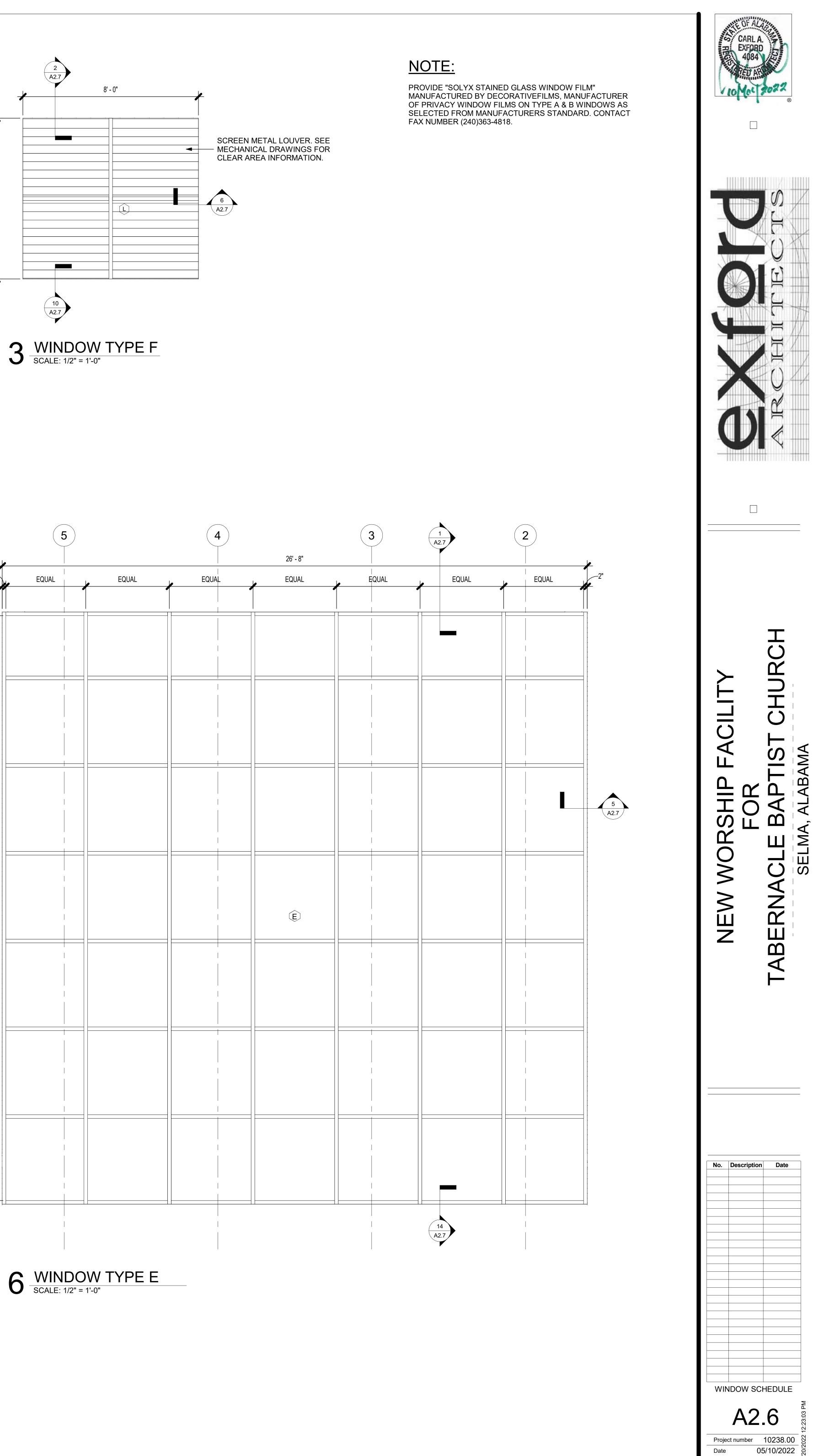


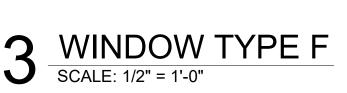


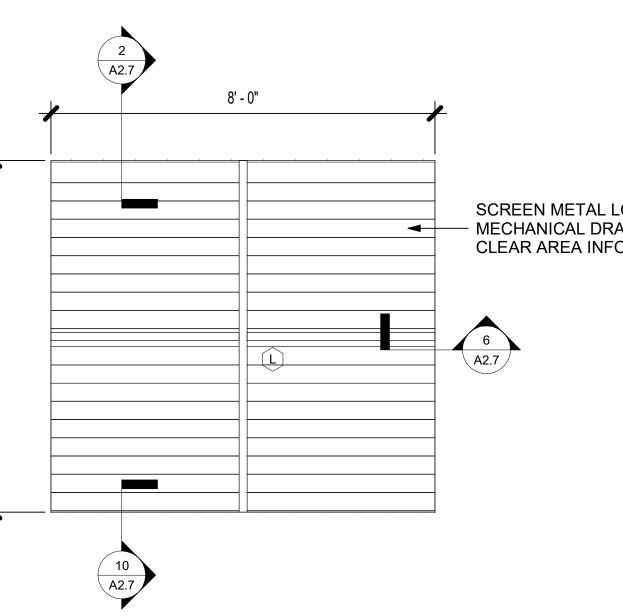
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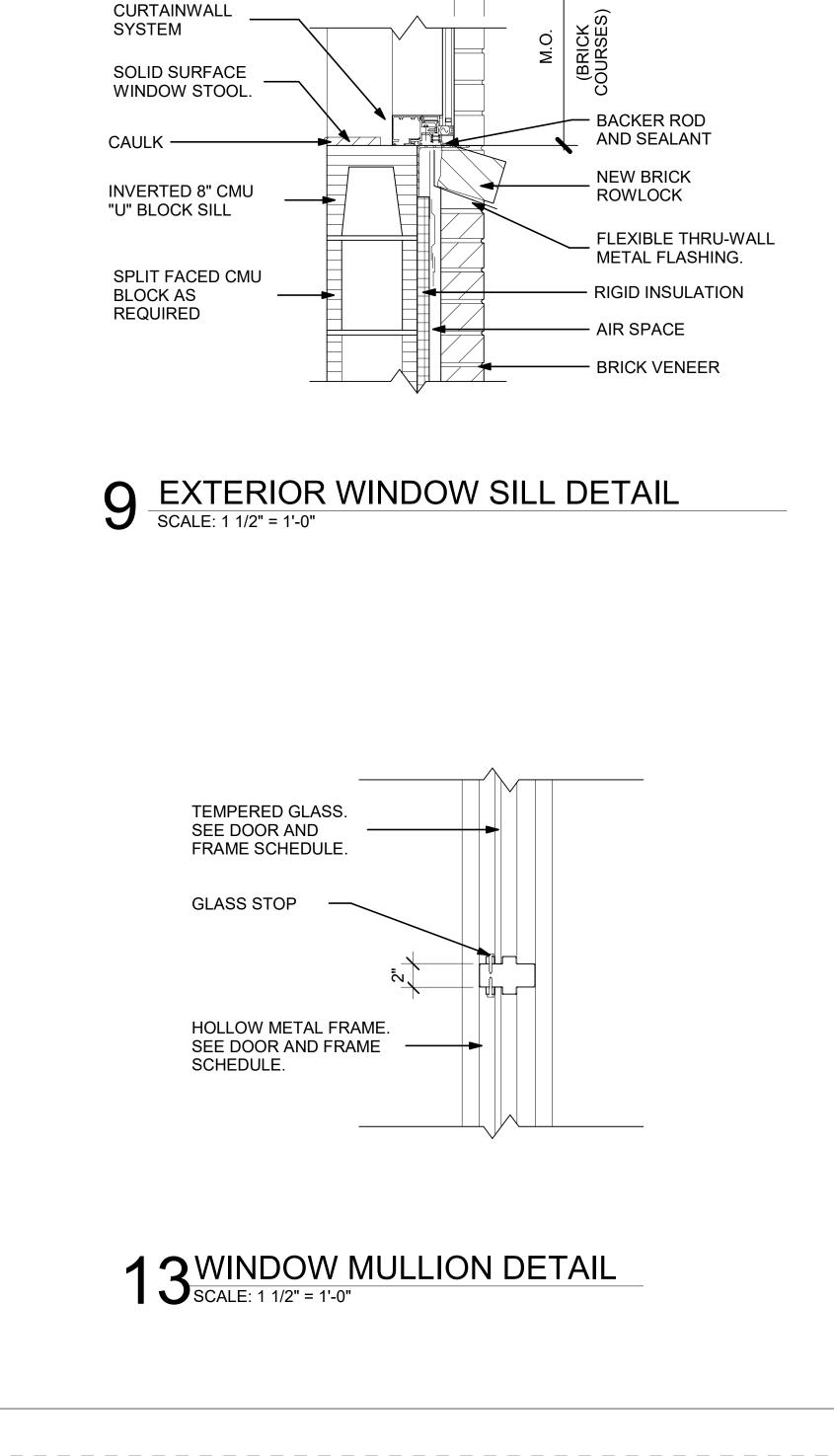
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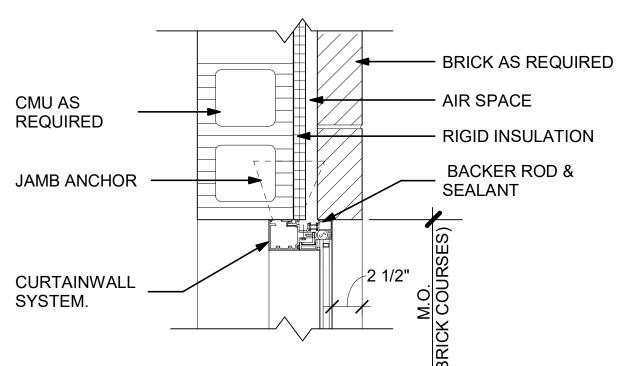




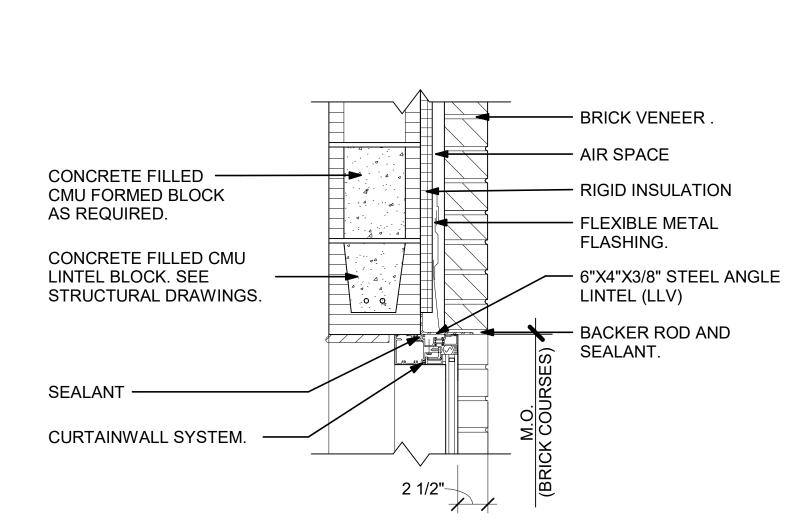


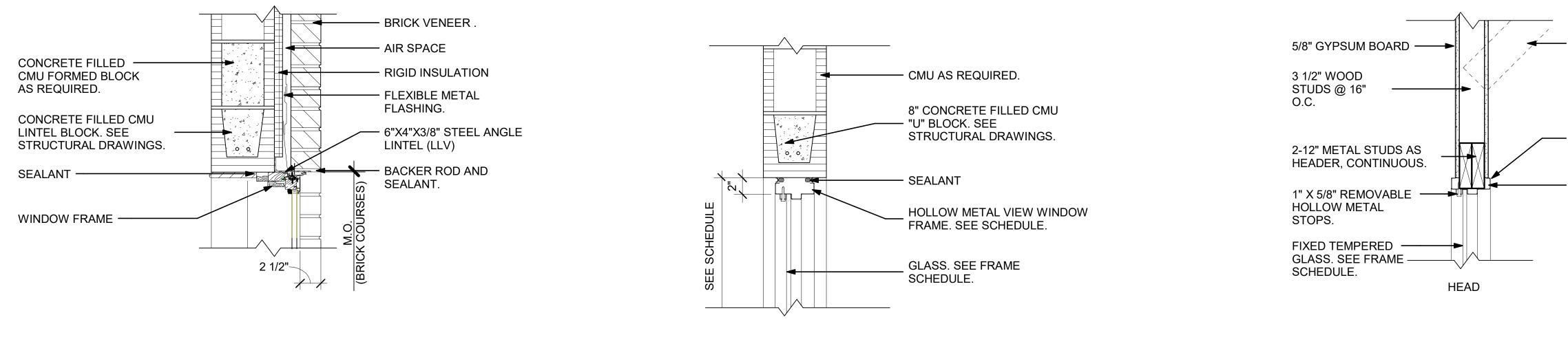


2 1/2"¬

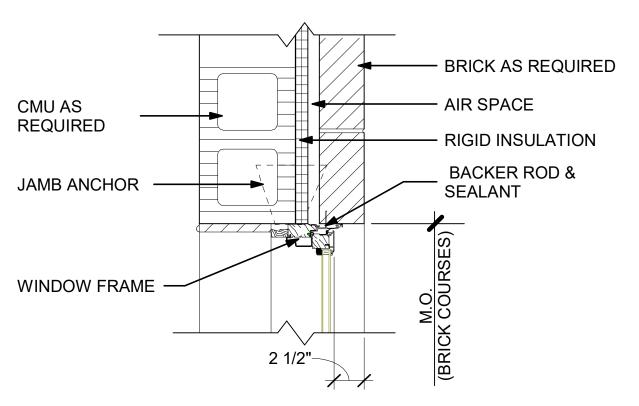


EXTERIOR WINDOW HEAD DETAIL SCALE: 1 1/2" = 1'-0"

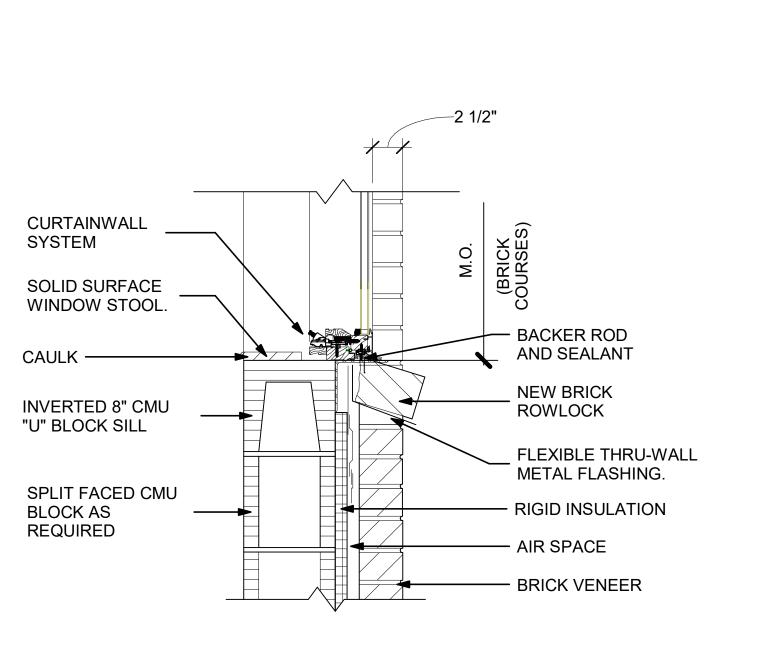


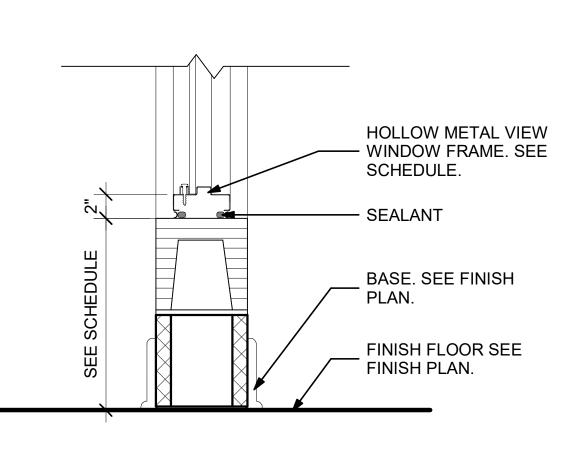










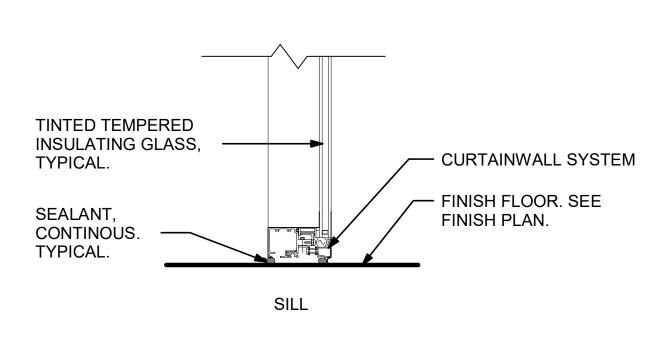


10 EXTERIOR WINDOW SILL DETAIL SCALE: 1 1/2" = 1'-0"



OPENING.

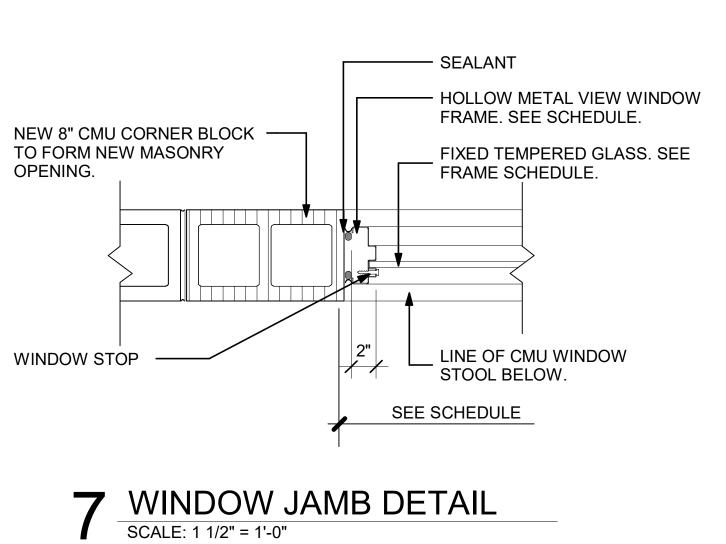
WINDOW STOP -----

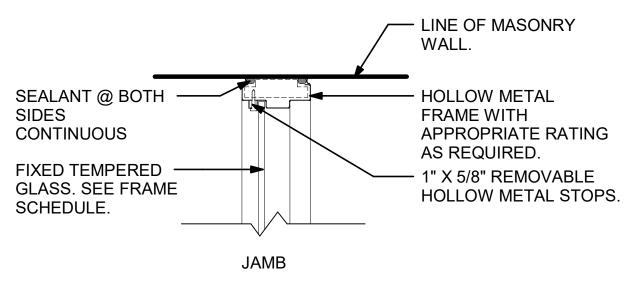


14 WINDOW SILL DETAIL SCALE: 1 1/2" = 1'-0"

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

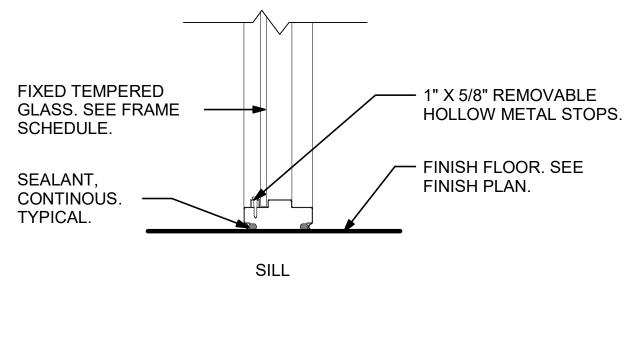








1 1 WINDOW SILL DETAIL SCALE: 1 1/2" = 1'-0"



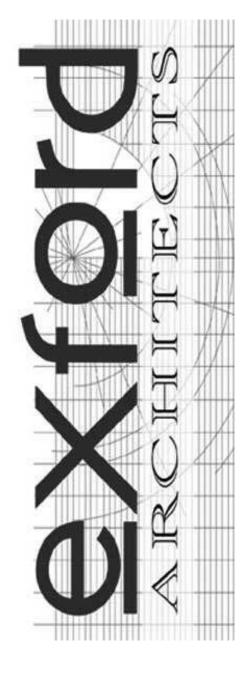
12 WINDOW SILL DETAIL SCALE: 1 1/2" = 1'-0"

✓ 3 1/2" WOOD STUD BRACE @ 32" O.C.

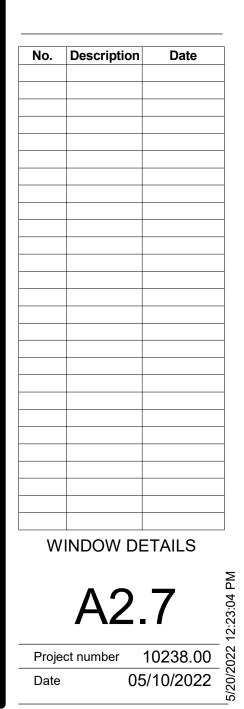
— SEALANT

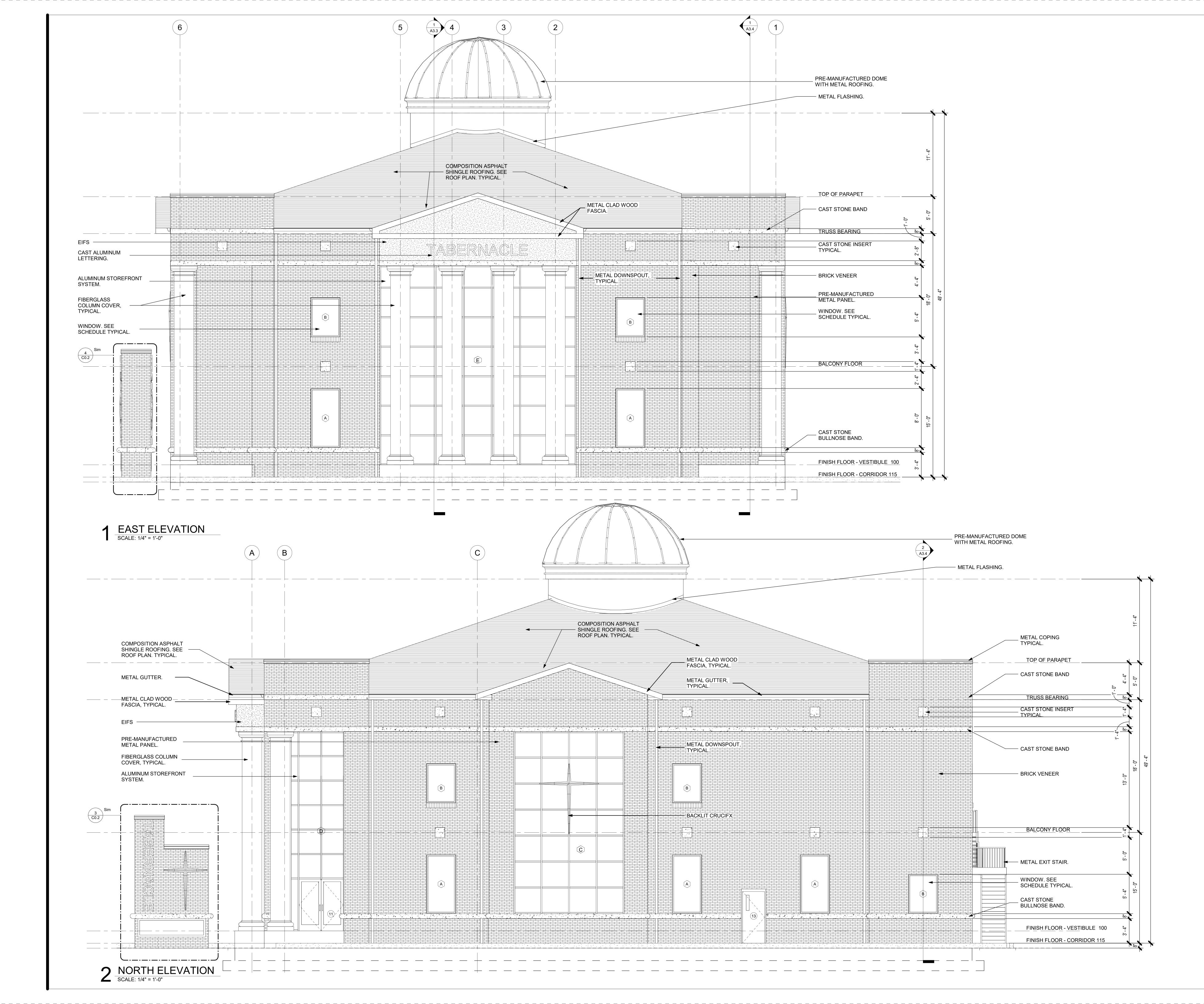
- HOLLOW METAL FRAME.



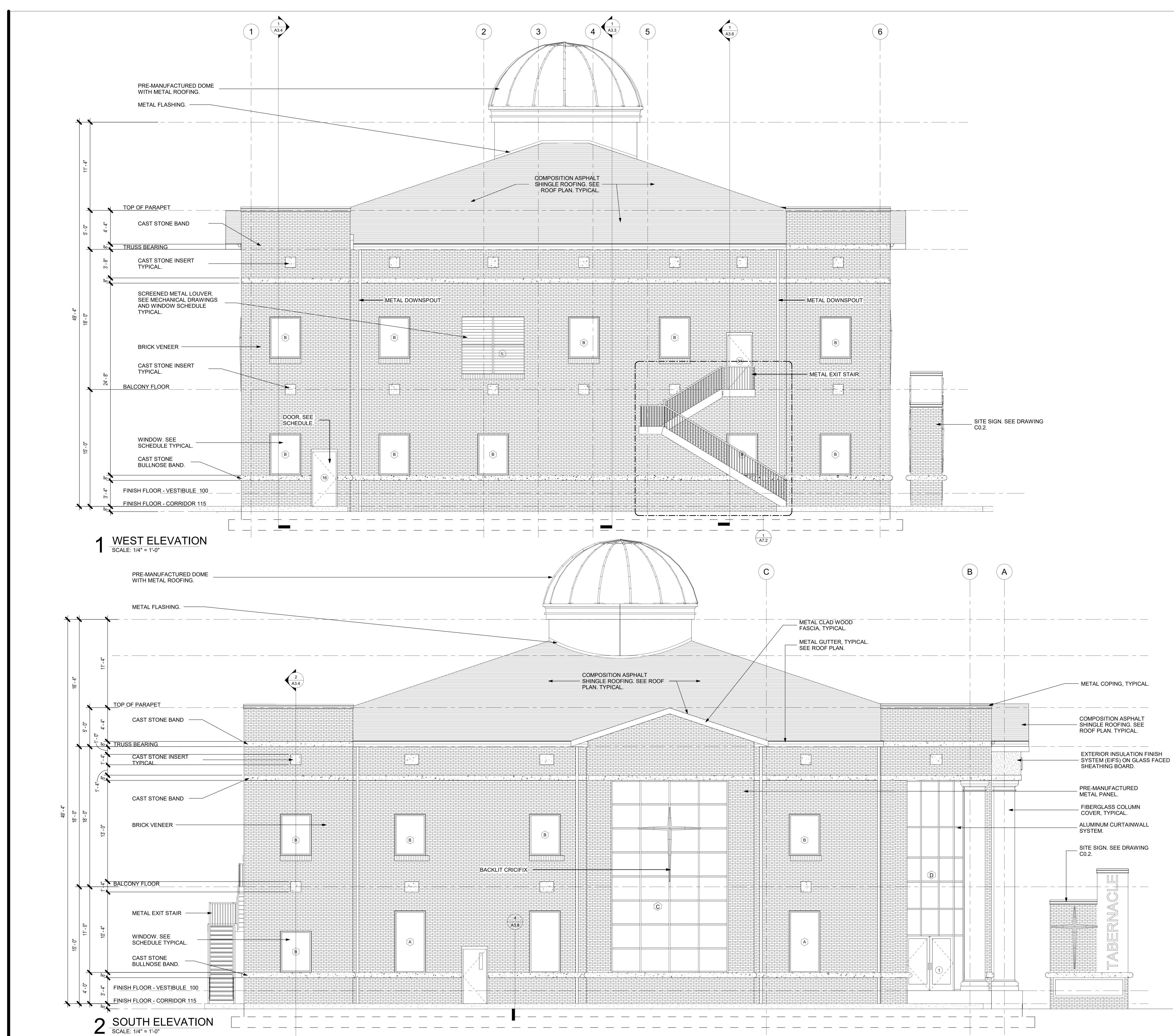




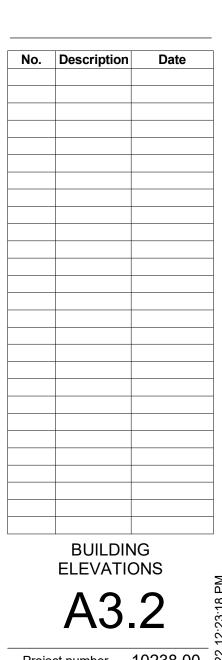




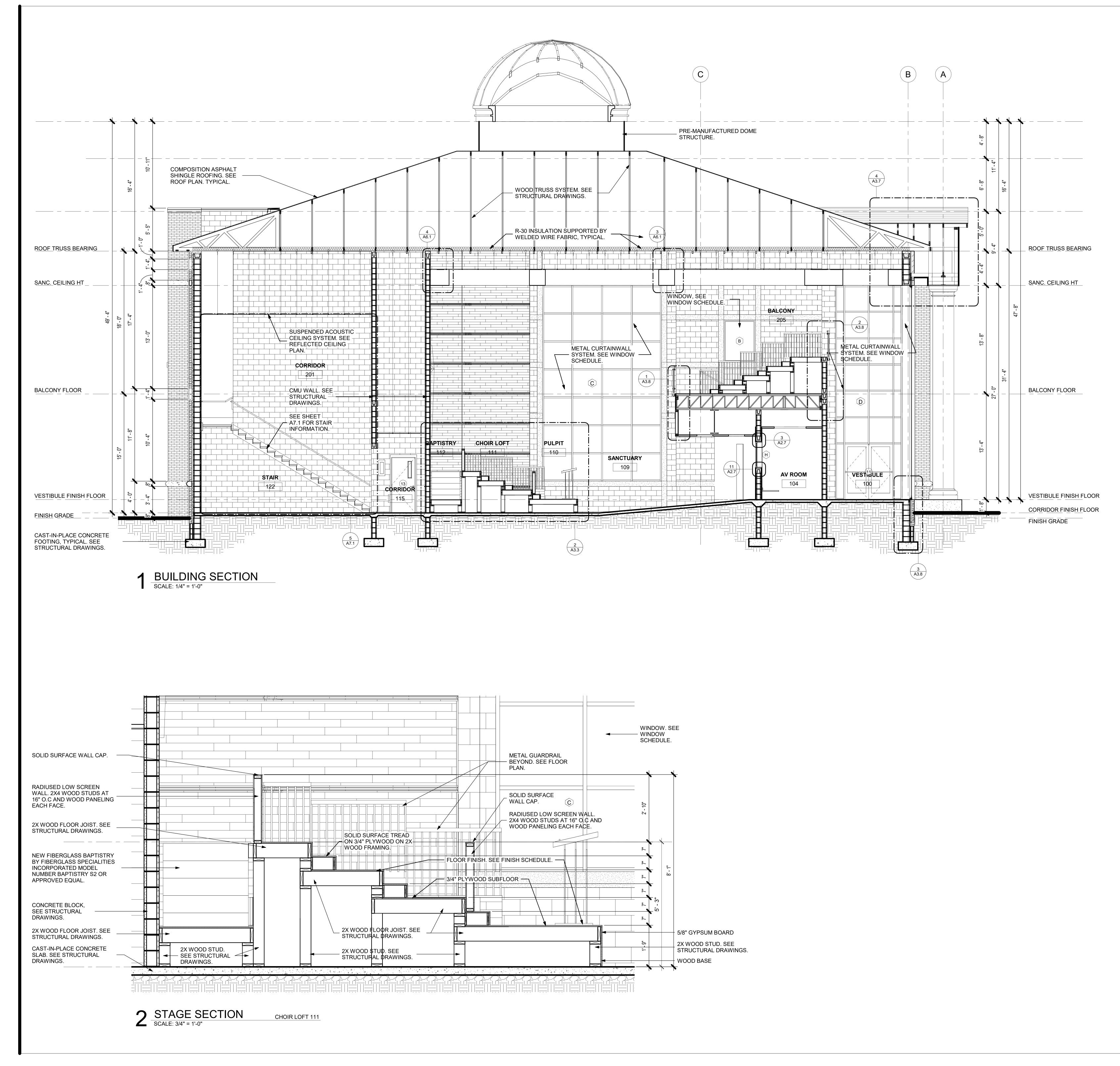


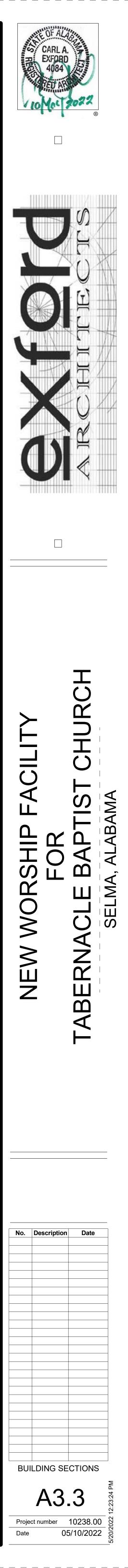


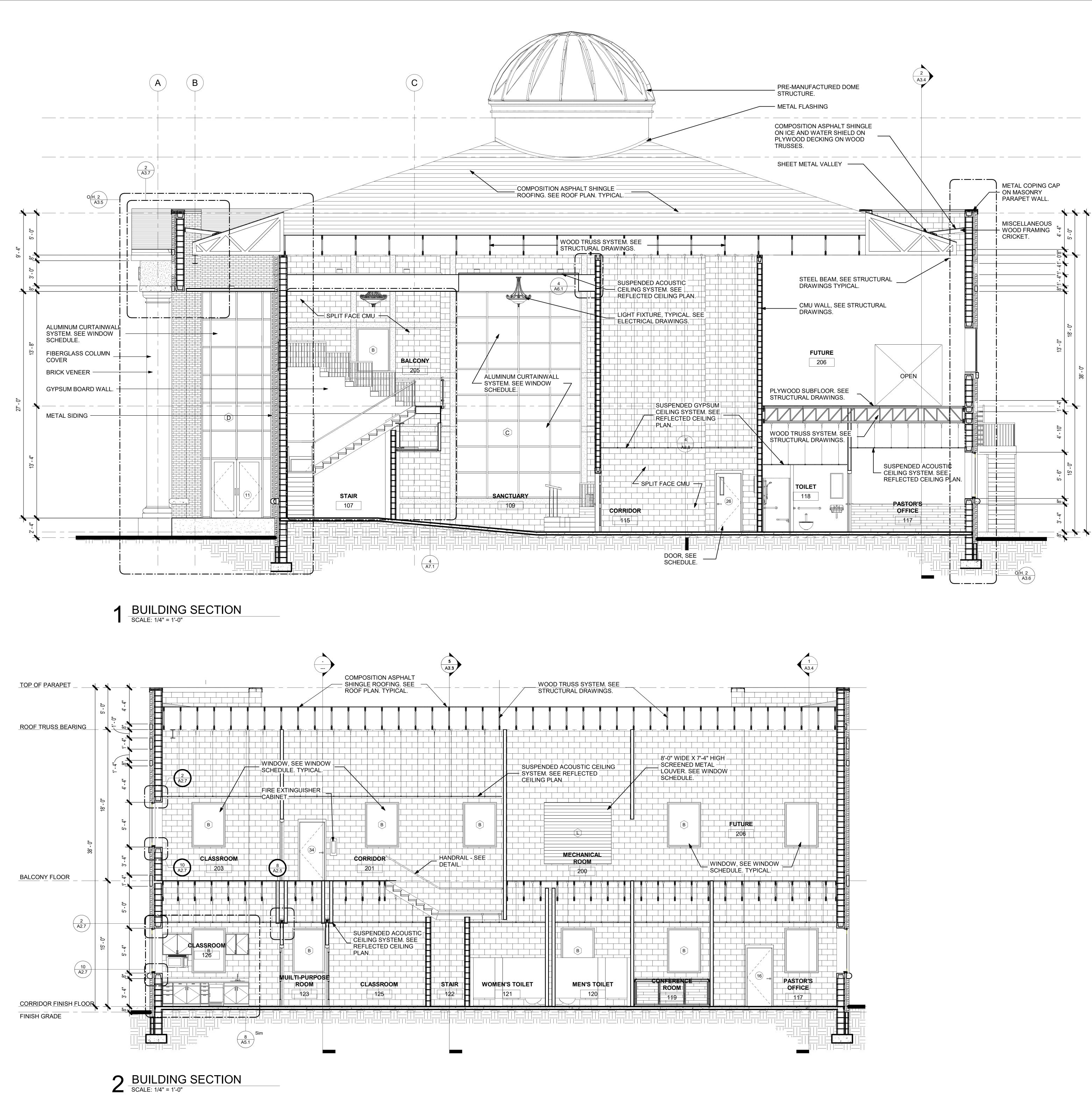
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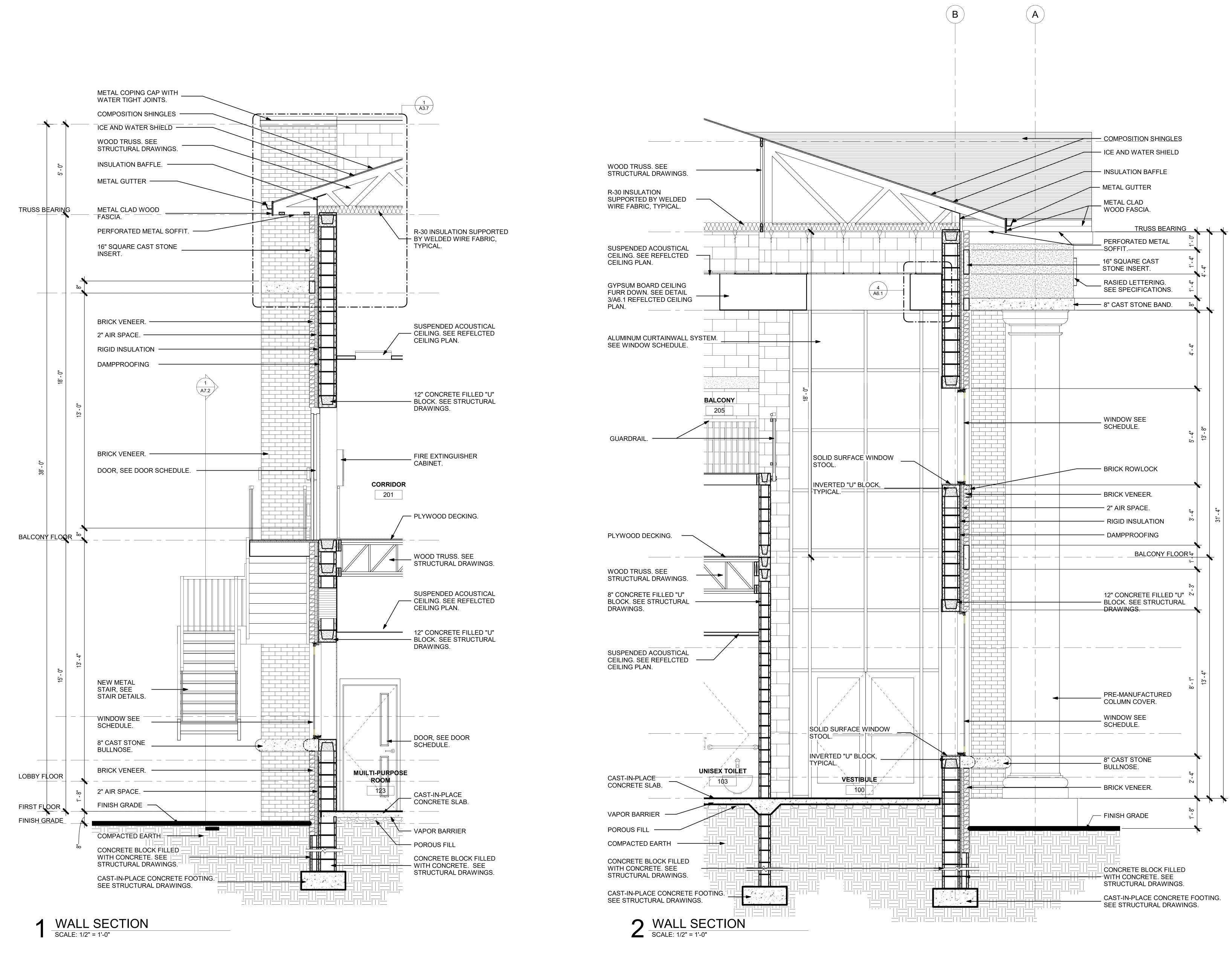




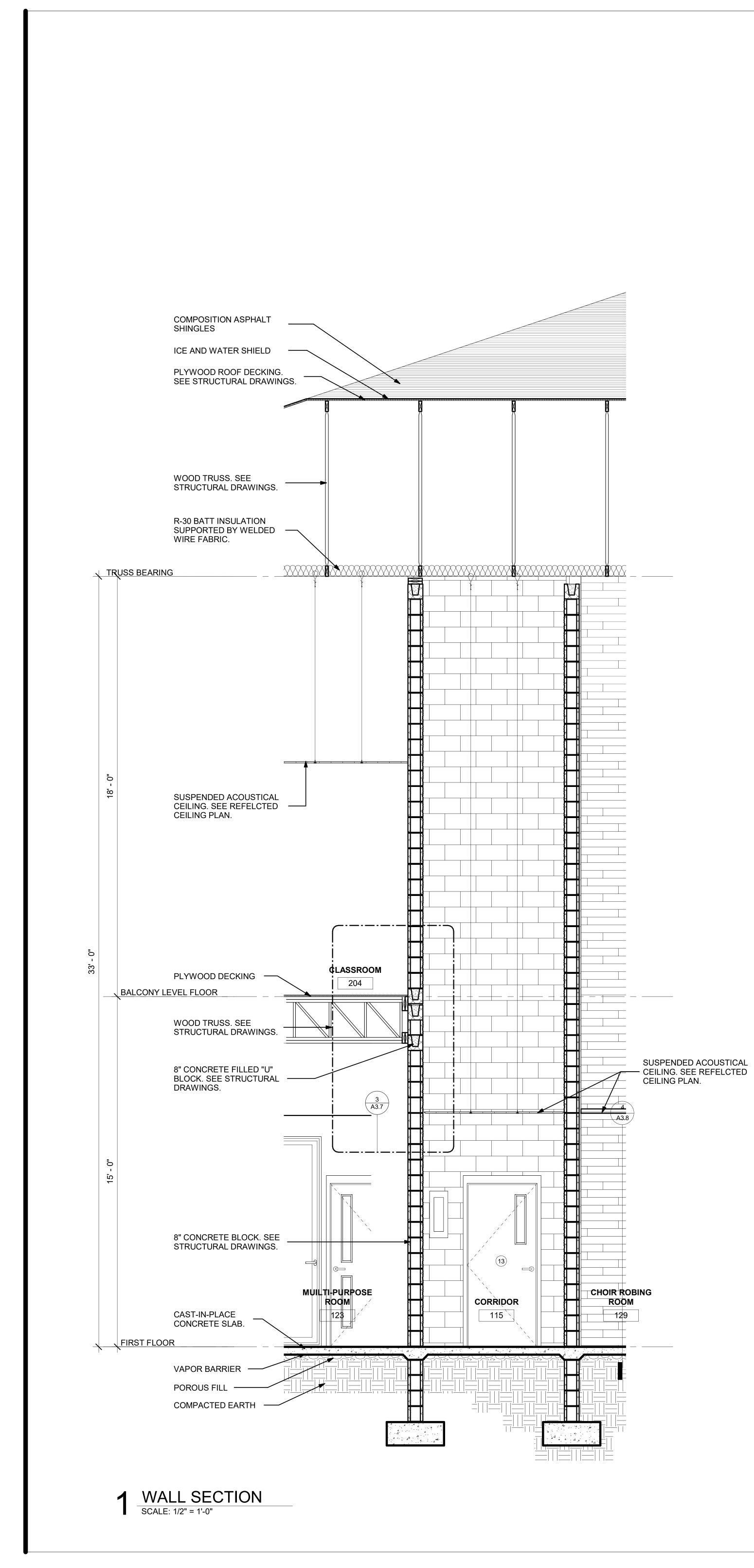


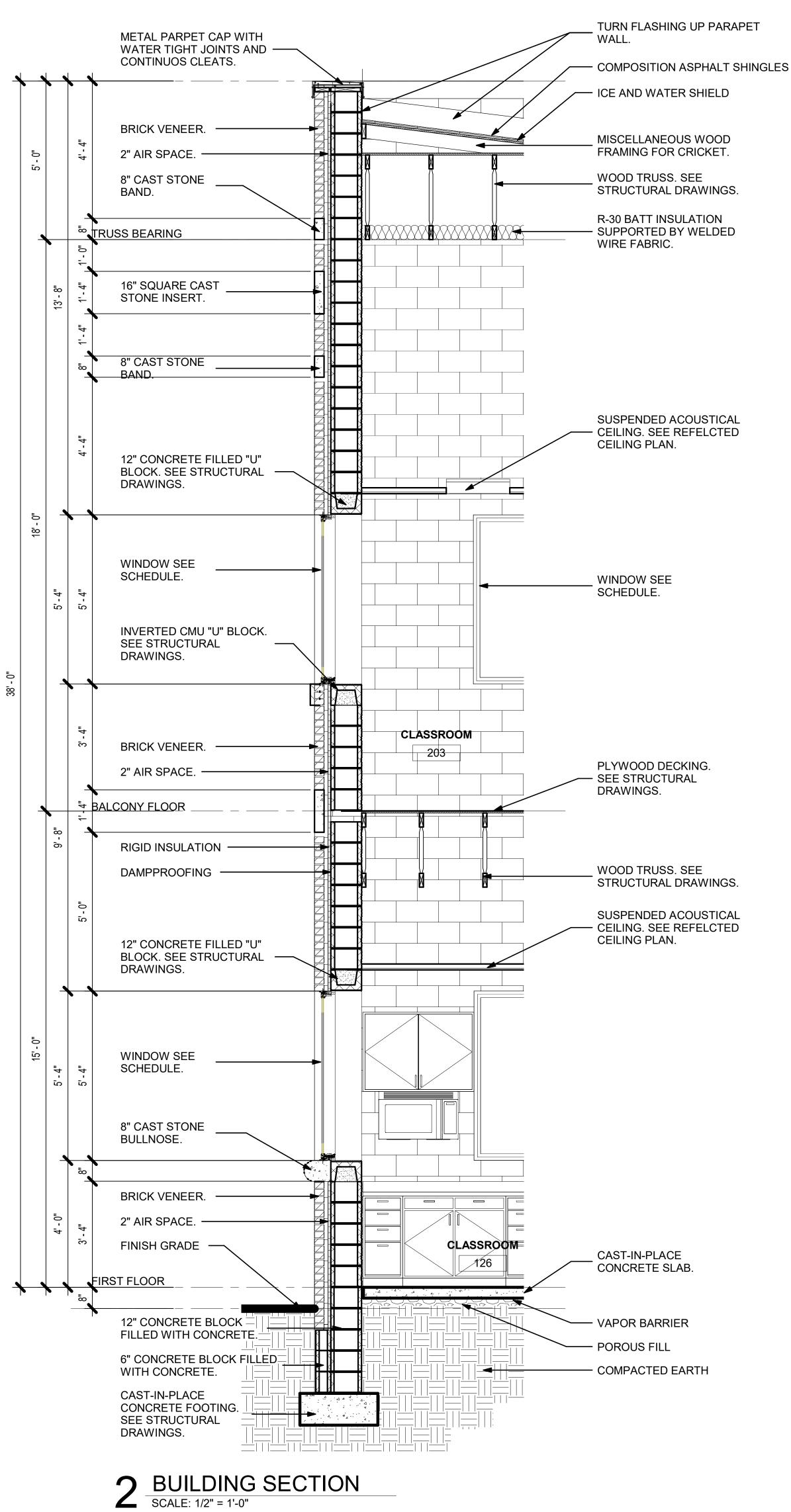
	5 3.3	<u>) TRUSS SYSTEM. SEE</u> CTURAL DRAWINGS.	<u> </u>	
201 201 DE DE DE DE DE DE DE DE DE DE	╧╤╧╫┻╣╵			FUTURE 206 VINDOW, SEE WINDOW SCHEDULE. TYPICAL. 8 8 8 8 8 8 8 8 8 8 8 8 8



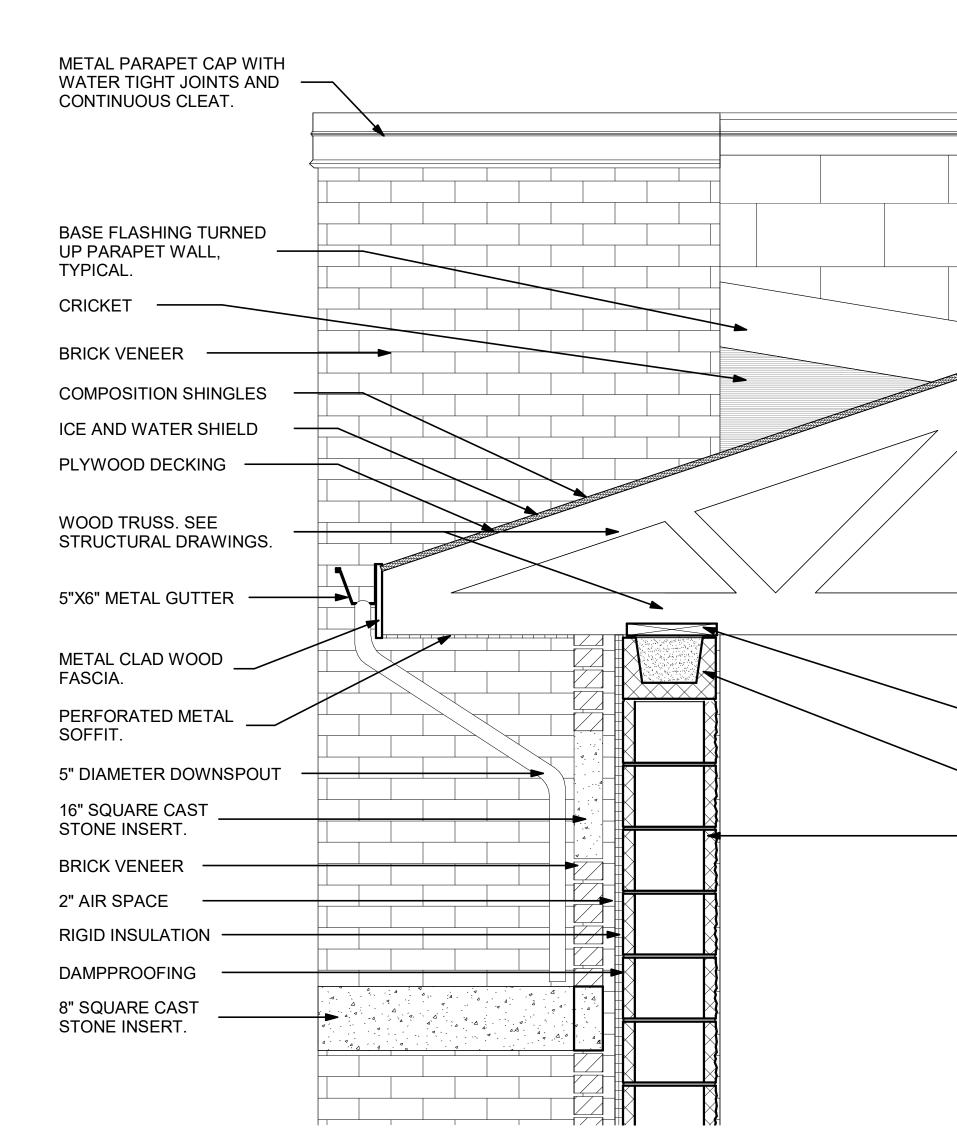




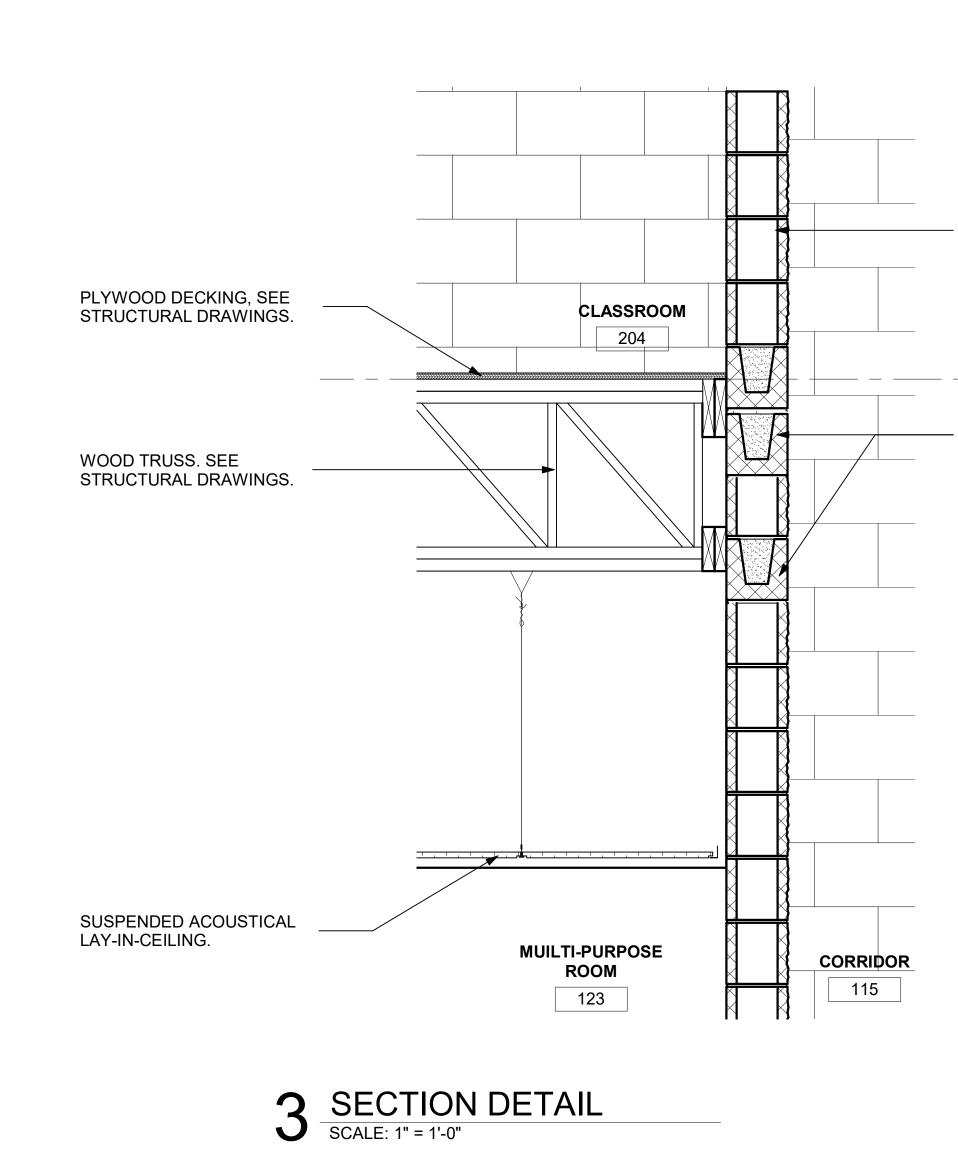






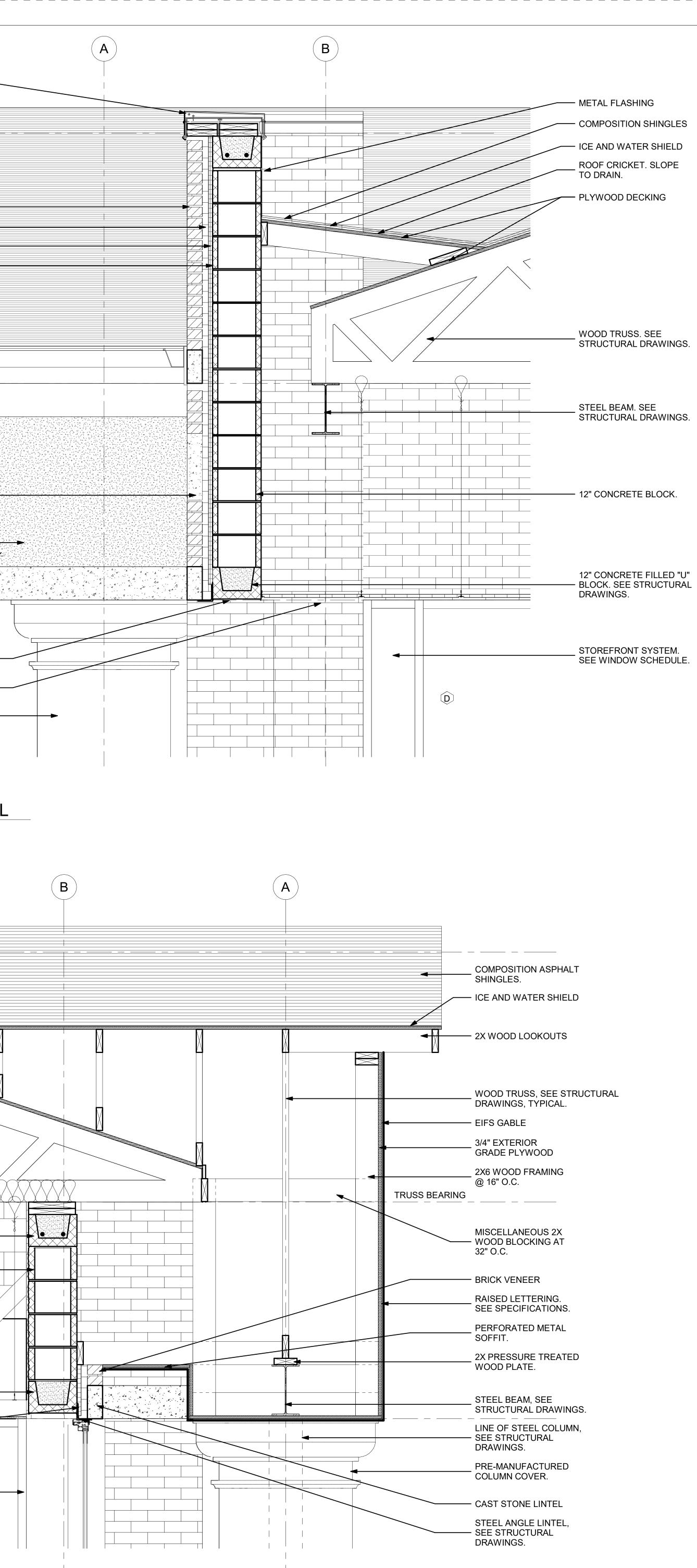


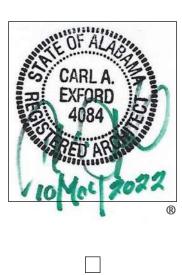


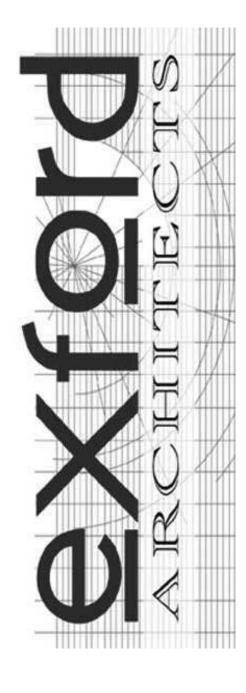


		METAL PARAPET CAP WITH WATER TIGHT JOINTS AND CONTINOUS CLEATS.
		COMPOSITION SHINGLES
		RIGID INSULATION DAMPPROOFING
		METAL GUTTER, SEE ROOF PLAN.
		BAND.
		RAISED LETTERING. SEE SPECIFICATIONS. 16" SQUARE CAST STONE INSERT.
2X WOOD PLATE, TYPICAL. 12" CONCRETE FILLED "U" BLOCK. SEE STRUCTURAL DRAWINGS. 12" CONCRETE BLOCK.		EIFS IS IFS BAND.
		STEEL PLATE. SEE STRUCTURAL DRAWINGS. PERFORATED METAL SOFFIT. PRE-MANUFACTURED COLUMN COVER.
		2 SECTION DETAIL SCALE: 1" = 1'-0"
8" CONCRETE BLOCK. - SEE STRUCTURAL DRAWINGS.	WOOD TRUSS, SEE STRUCTURAL DRAWINGS, TYPICAL.	
 8" CONCRETE FILLED "U" BLOCK. SEE STRUCTURAL DRAWINGS. 	12" CONCRETE FILLED "U" BLOCK. SEE STRUCTURAL DRAWINGS. 12" CONCRETE BLOCK. SEE STRUCTURAL DRAWINGS.	
	SUSPENDED ACOUSTICAL CEILING SYSTEM. GYPSUM BOARD SOFFIT, SEE DETAIL 4/A6.1.	
	12" CONCRETE FILLED "U" BLOCK. SEE STRUCTURAL	
	THRU-WALL FLEXIBLE METAL FLASHING.	
	SYSTEM. SEE WINDOW SCHEDULE.	

4 SECTION DETAIL SCALE: 1" = 1'-0"









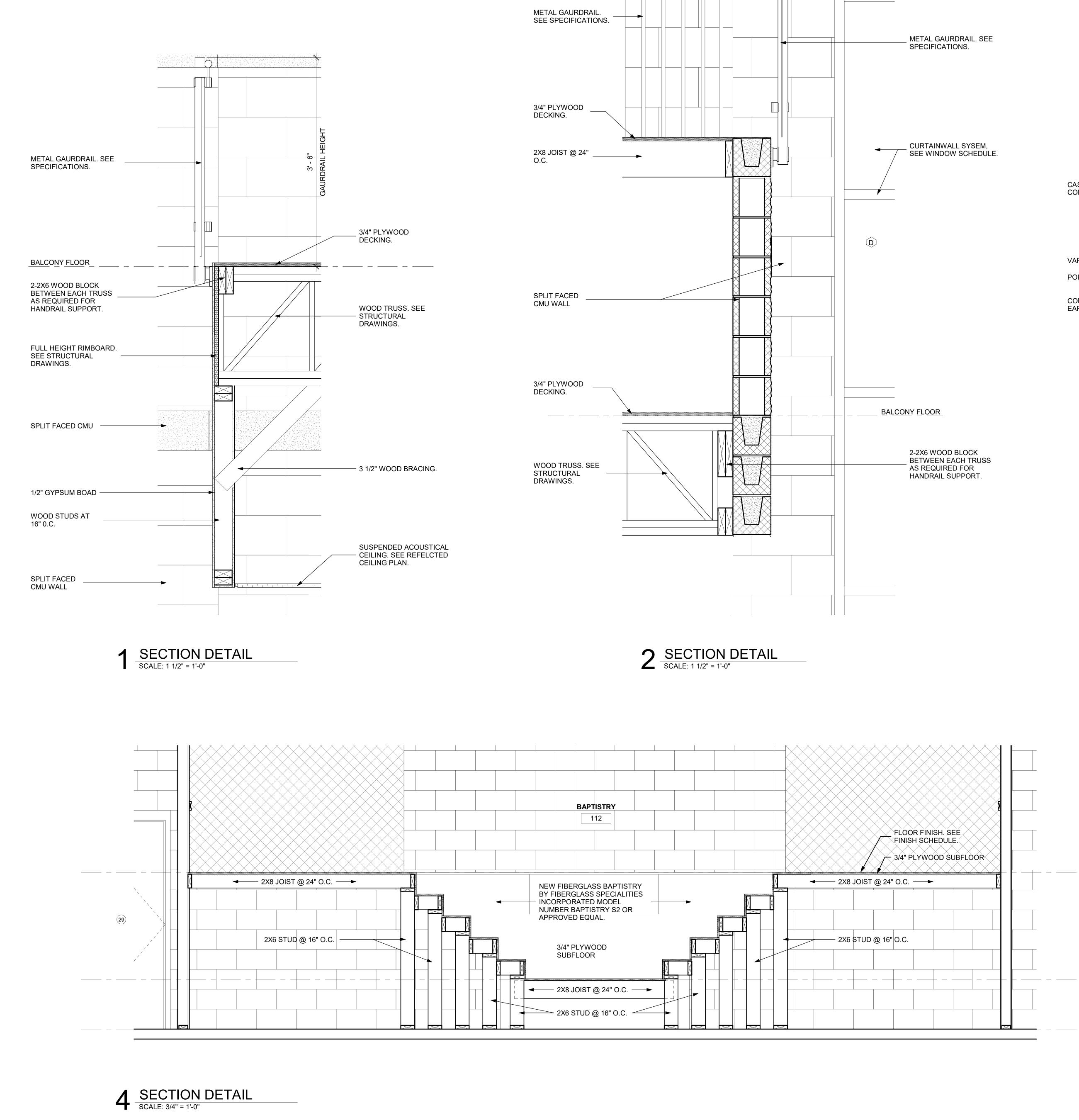
SECTION DETAILS

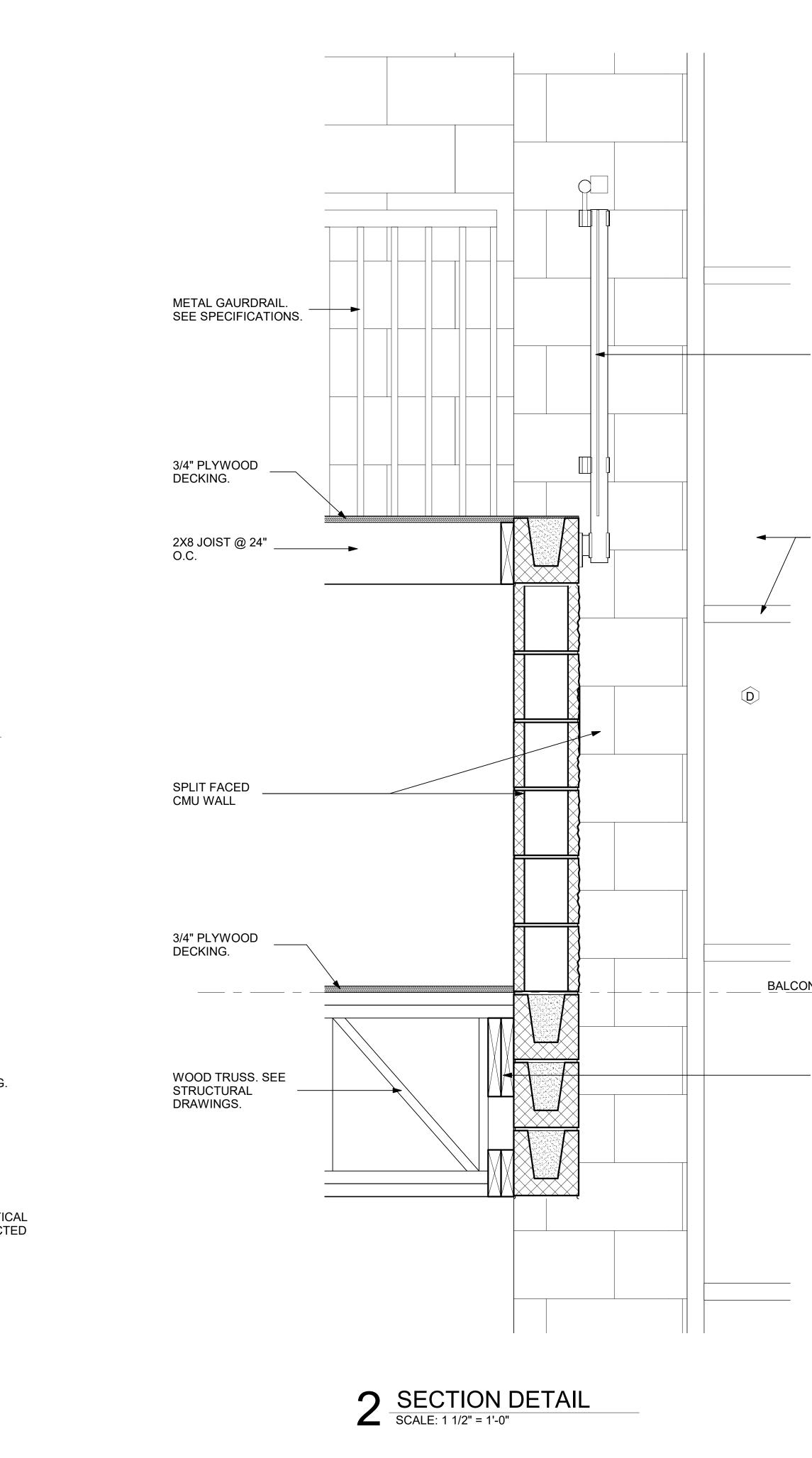
A3.7

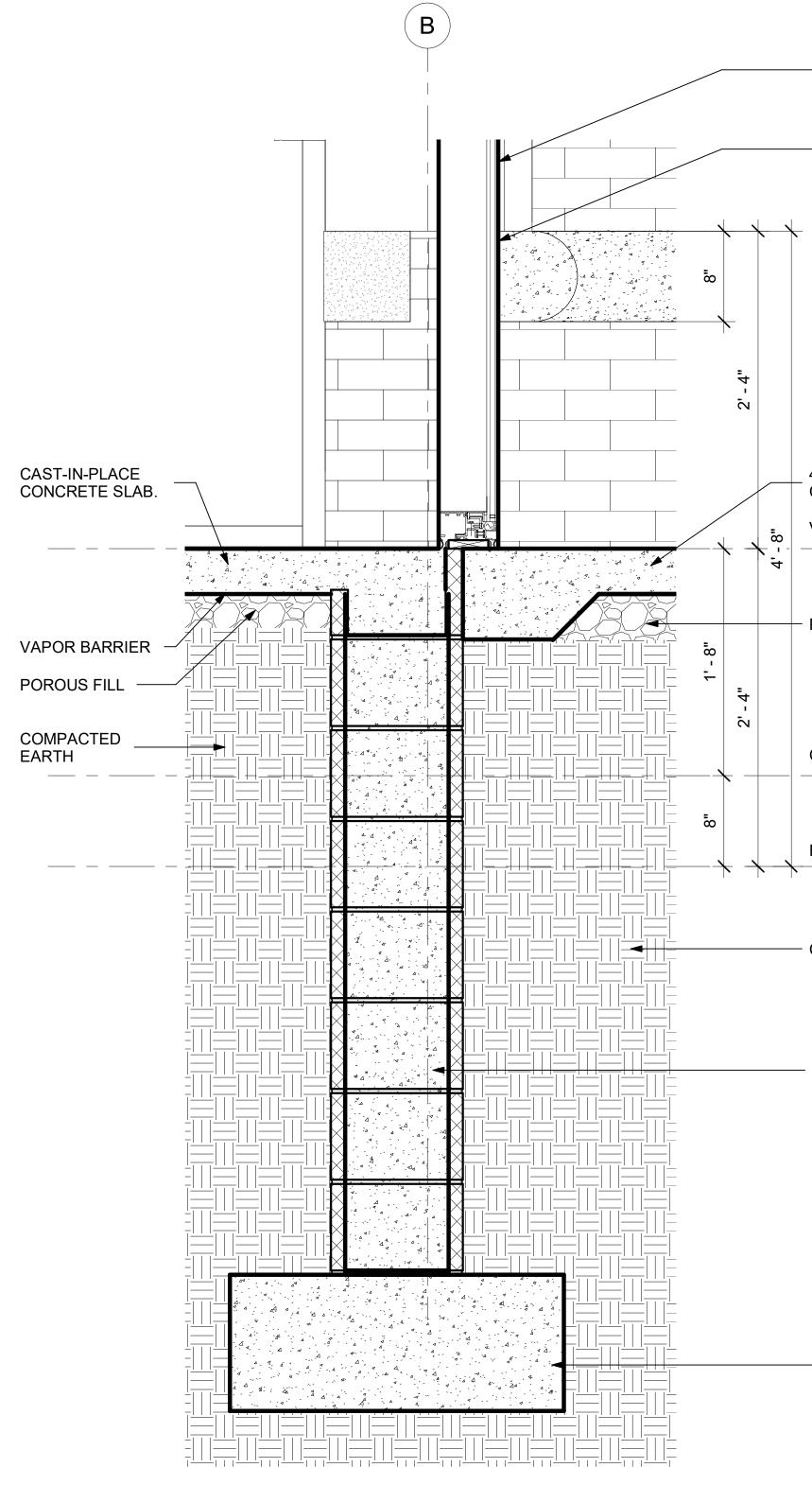
Project number 10238.00

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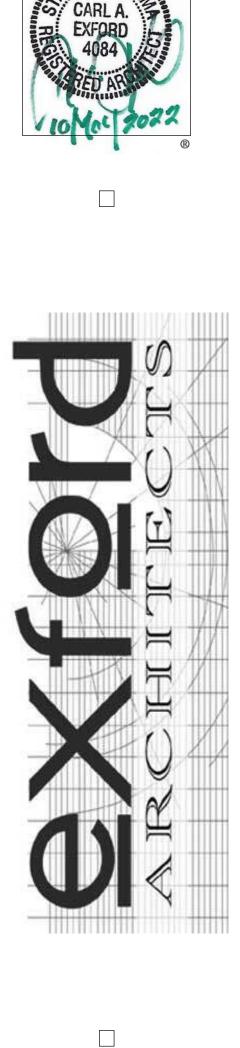
3 Detail 15 SCALE: 1 1/2" = 1'-0"

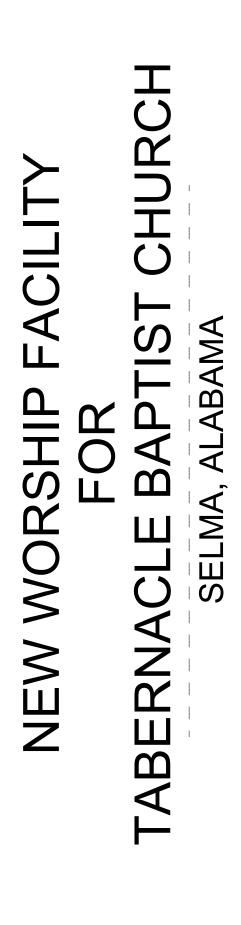
ALUMINUM STOREFRONT - SYSTEM. SEE WINDOW SCHEDULE. ALUMINUM STOREFRONT SYSTEM. SEE WINDOW SCHEDULE.

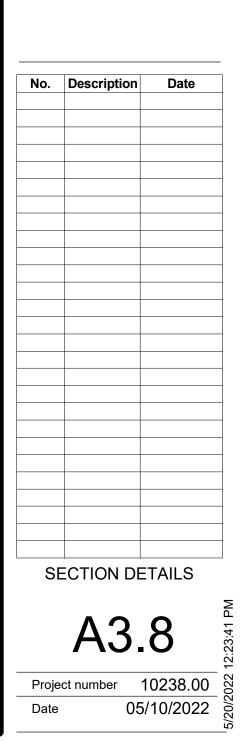
_ 4" CAST-IN-PLACE CONCRETE SLAB. VESTIBULE FINISH FLOOR

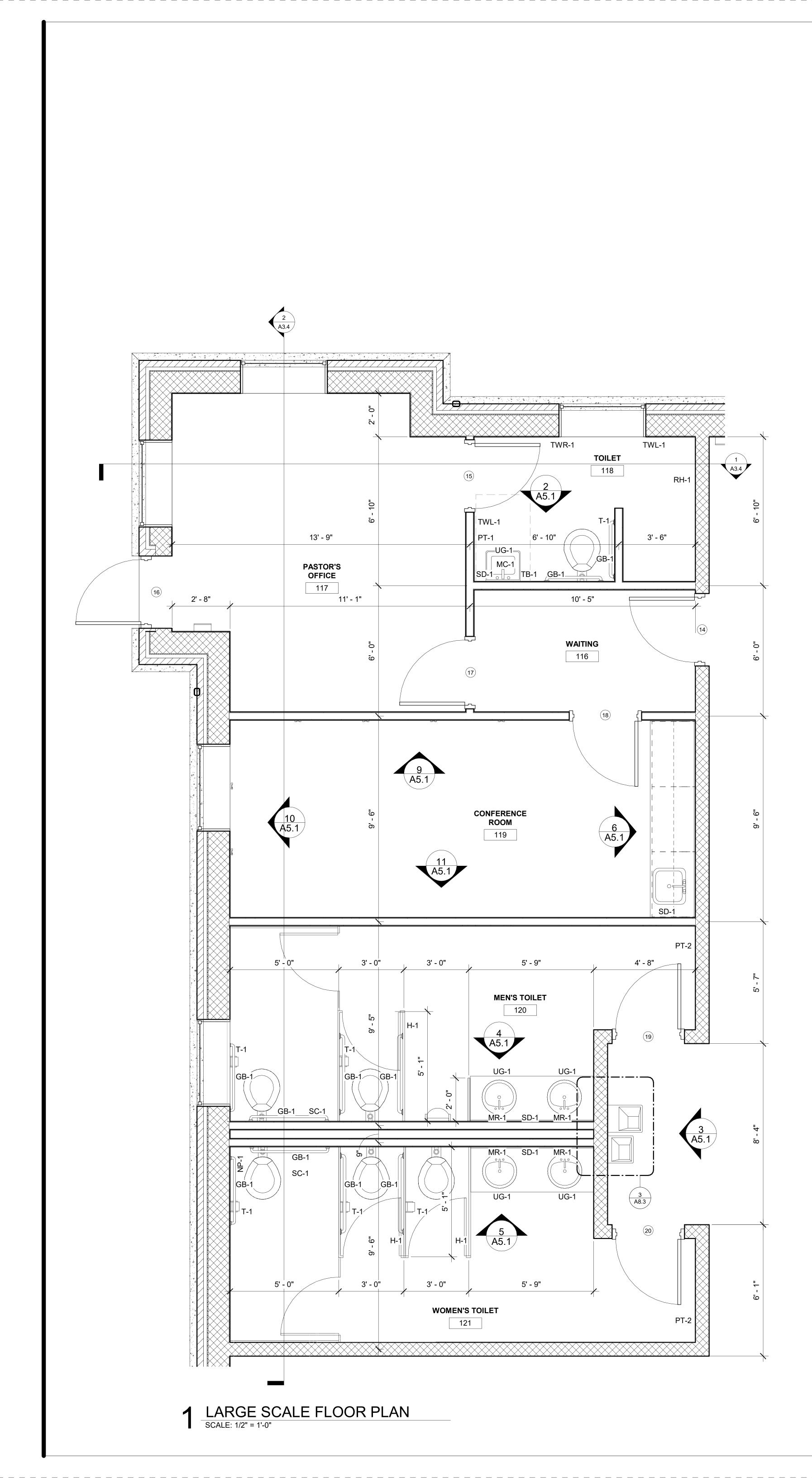
_____ _ _ _ _ _ _

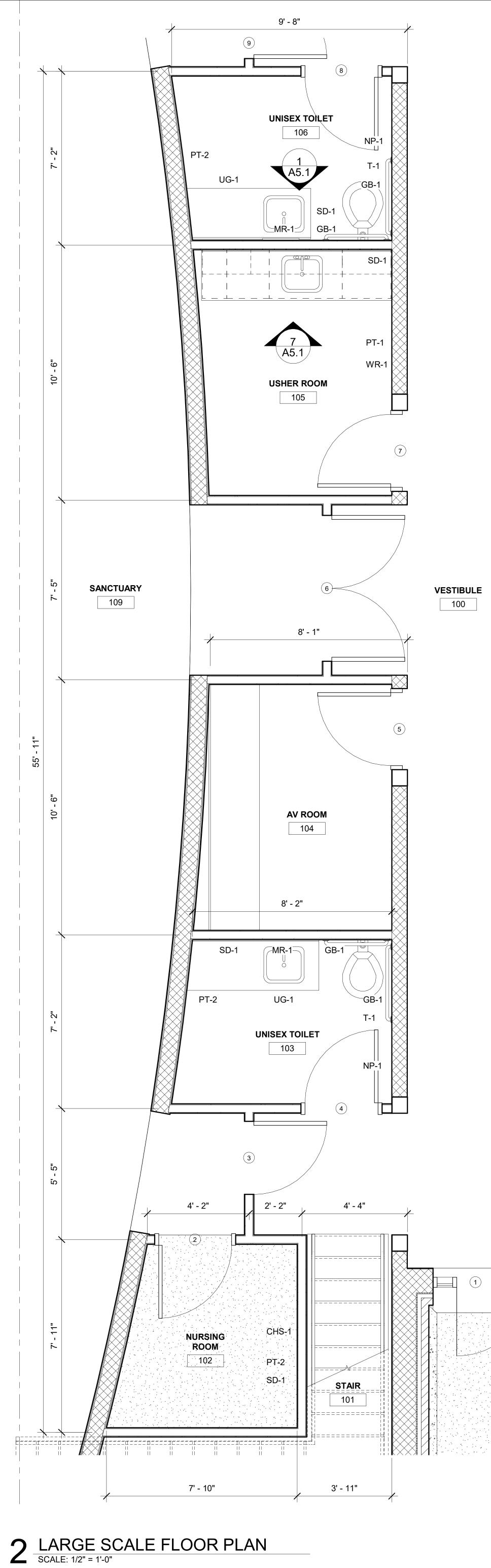
- POROUS FILL
- CORRIDOR FINISH FLOOR - ____ __ __ __ __
- FINISH GRADE _ __ __ __ __
- COMPACTED EARTH
- 12" CONCRETE BLOCK FILLED WITH CONCRETE.
- CAST-IN-PLACE CONCRETE FOOTING. SEE STRUCTURAL DRAWINGS.

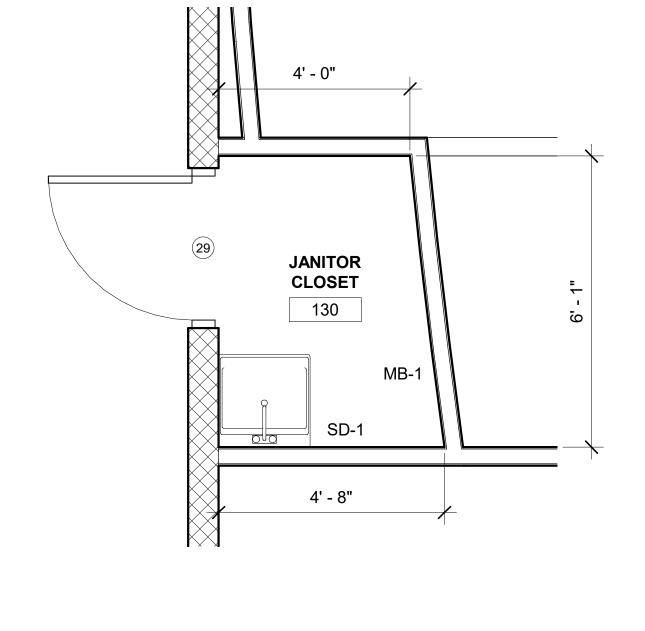




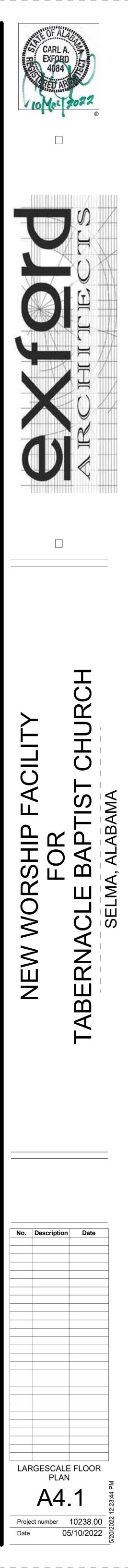




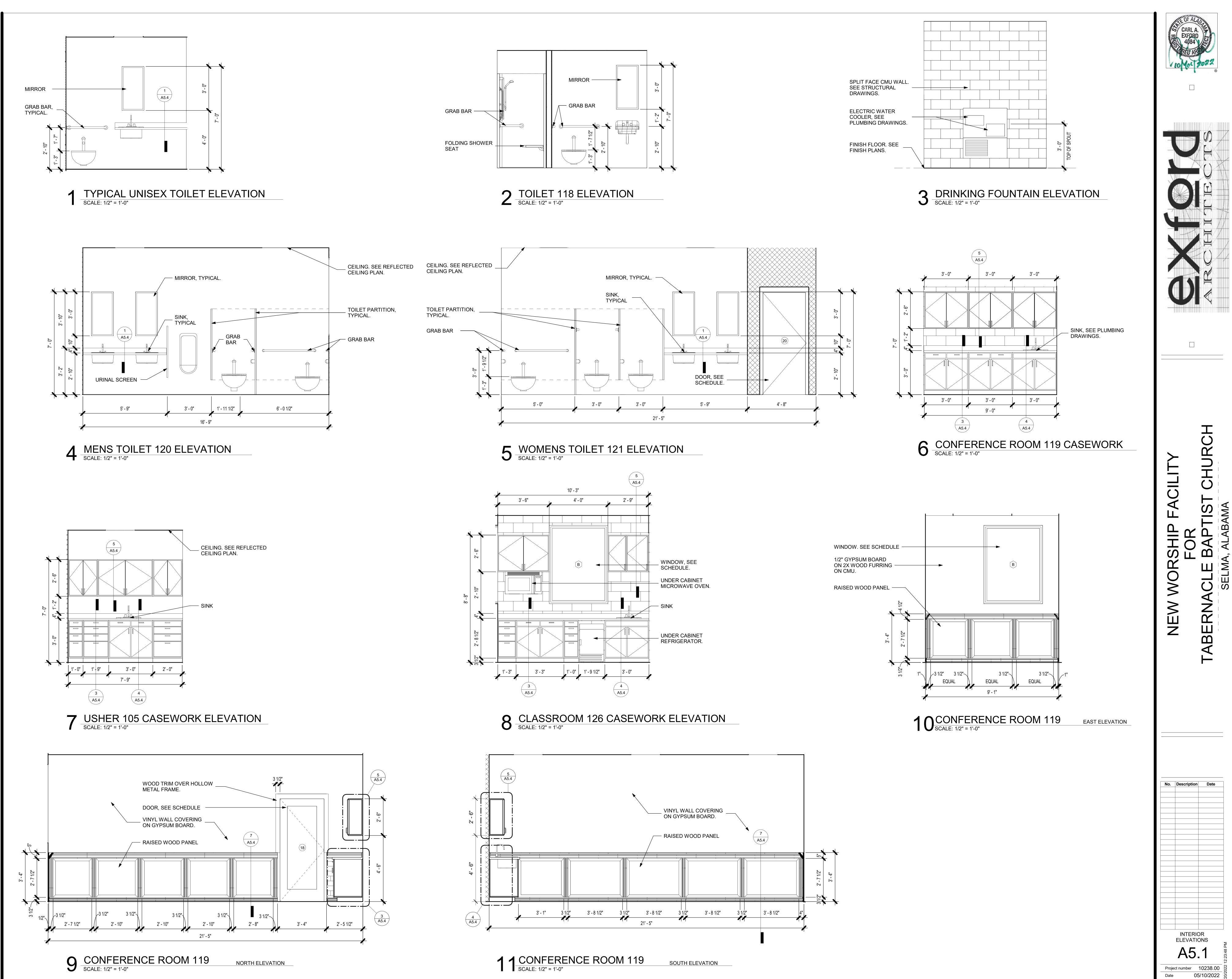


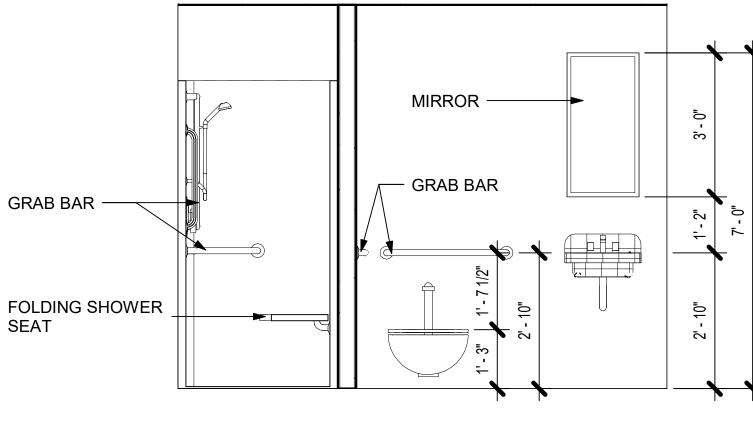


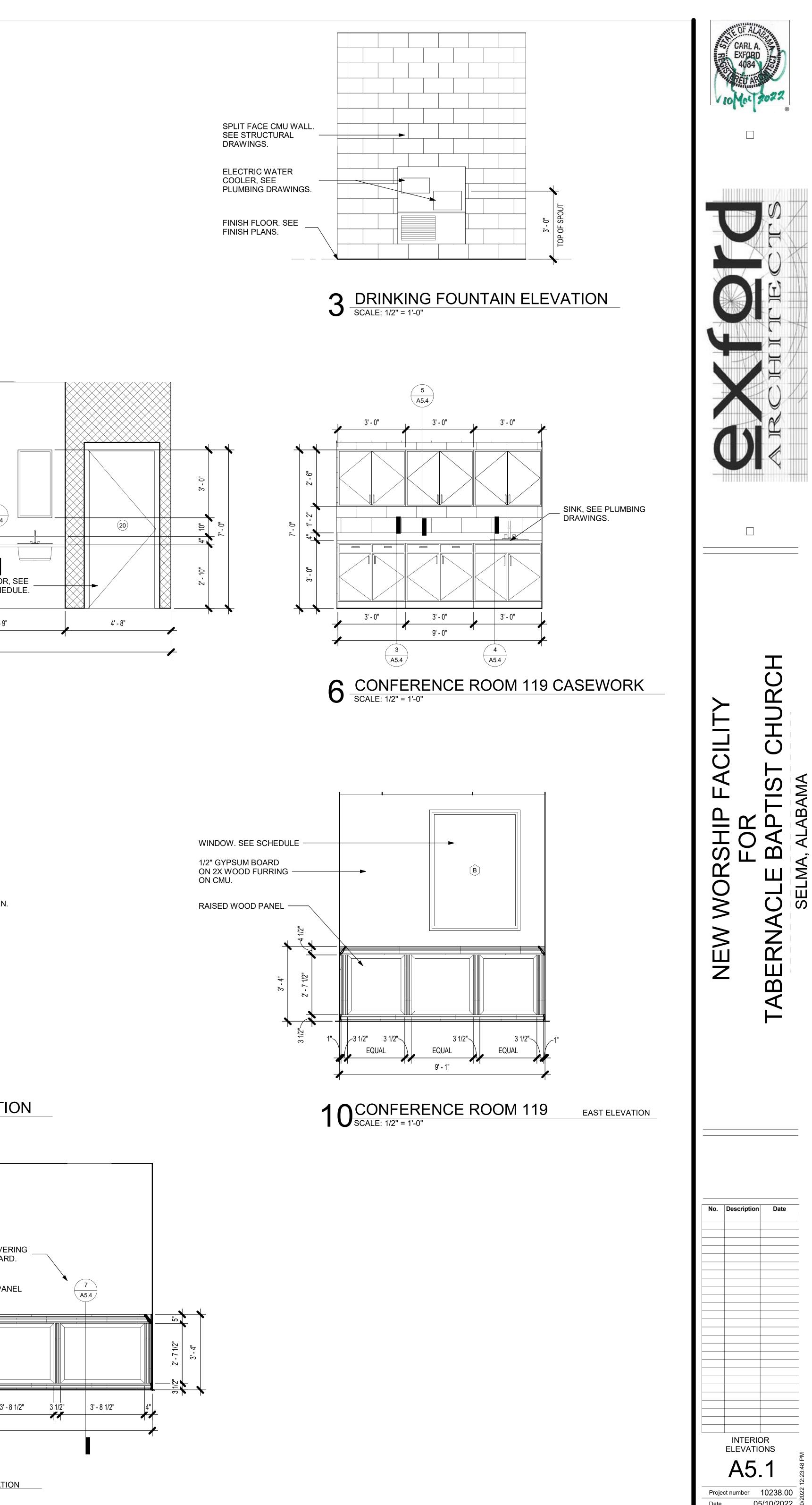
3 LARGE SCALE FLOOR PLAN SCALE: 1/2" = 1'-0"

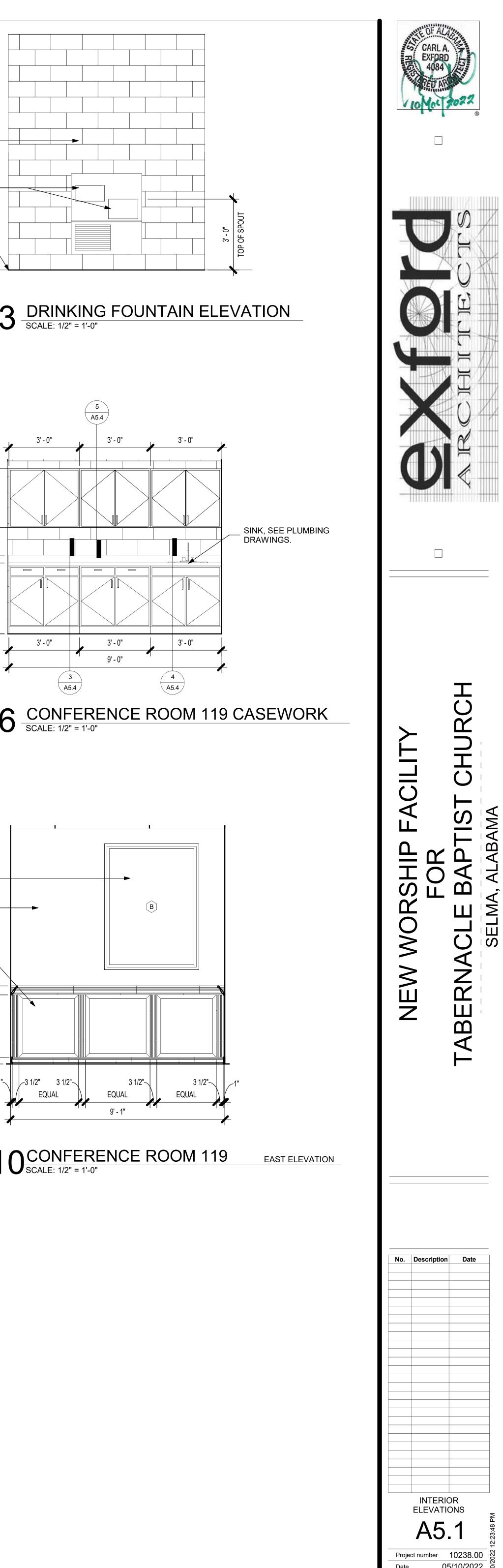


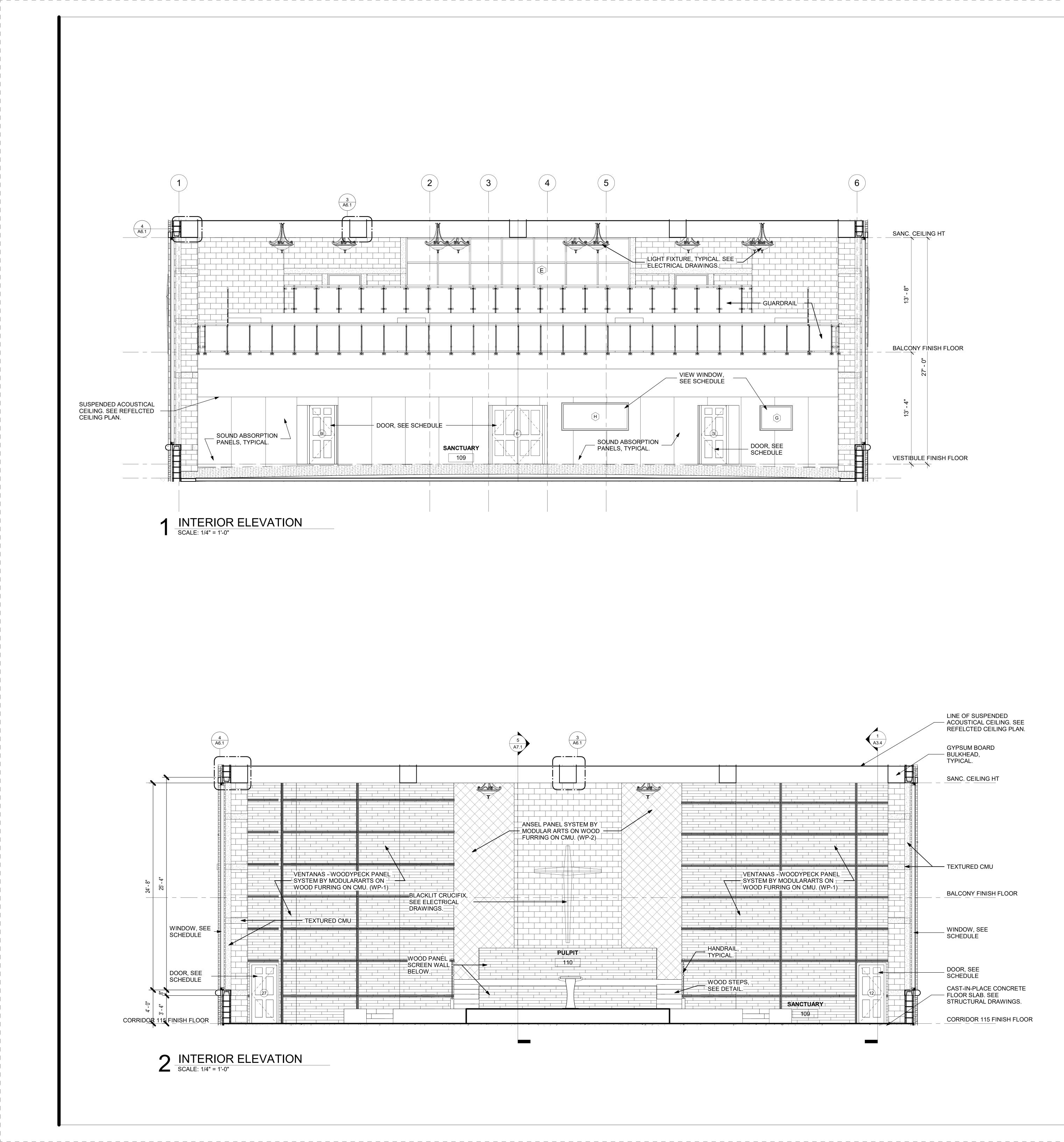




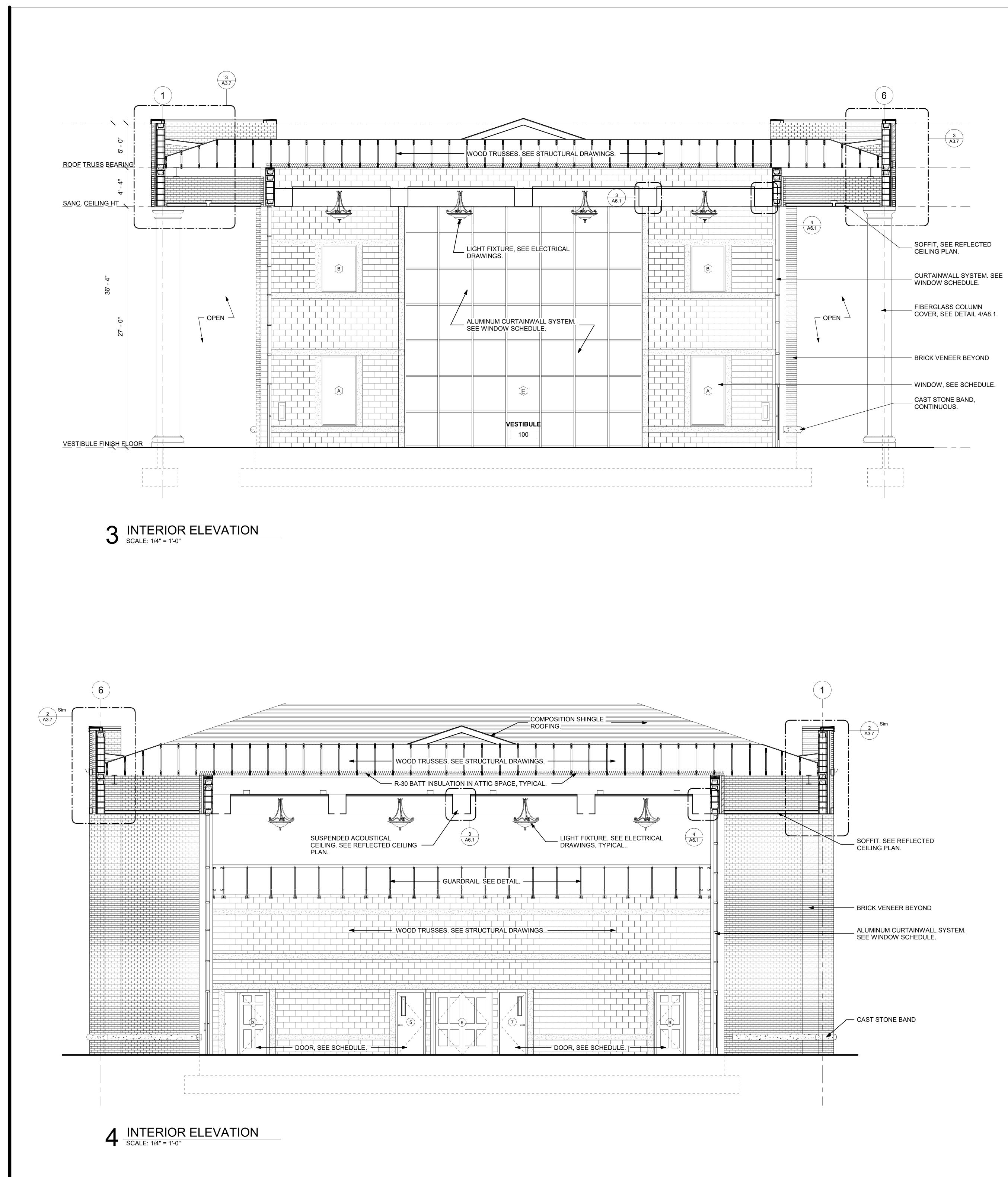




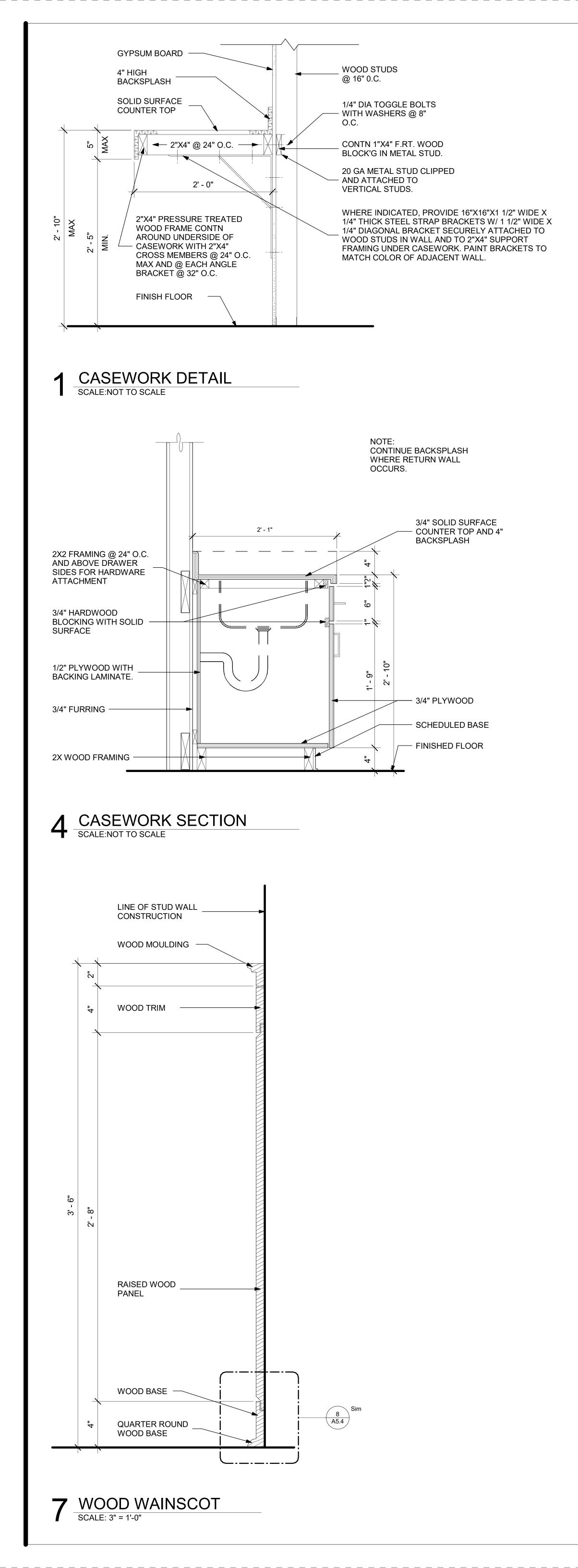




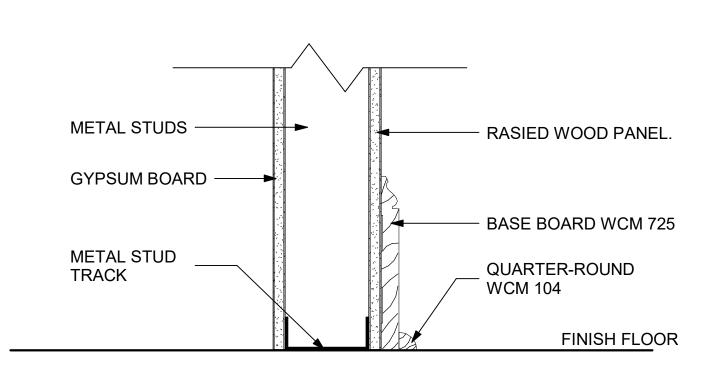






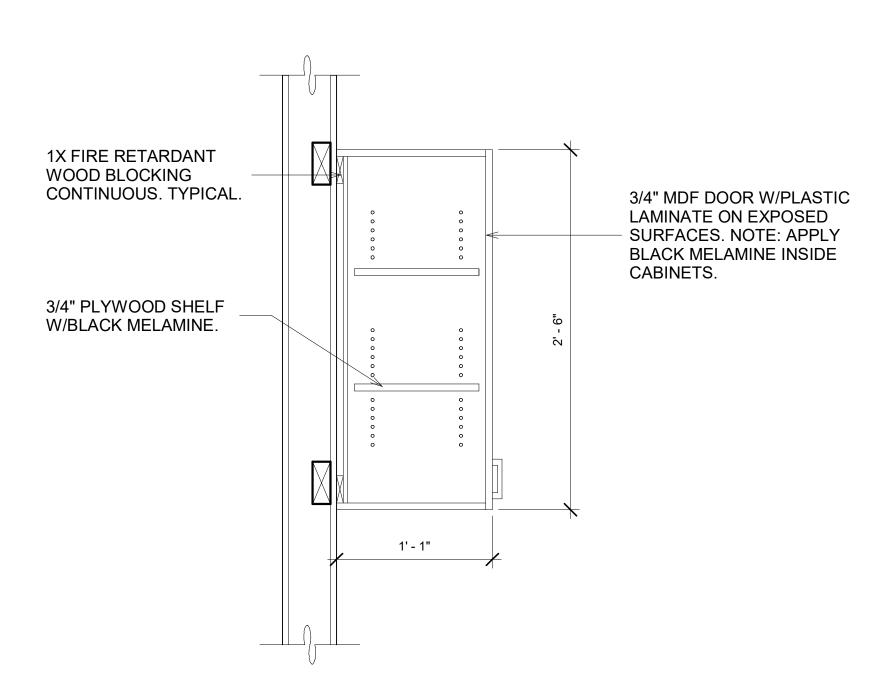


8 TYPICAL WOOD BASE DETAIL SCALE: 3" = 1'-0"

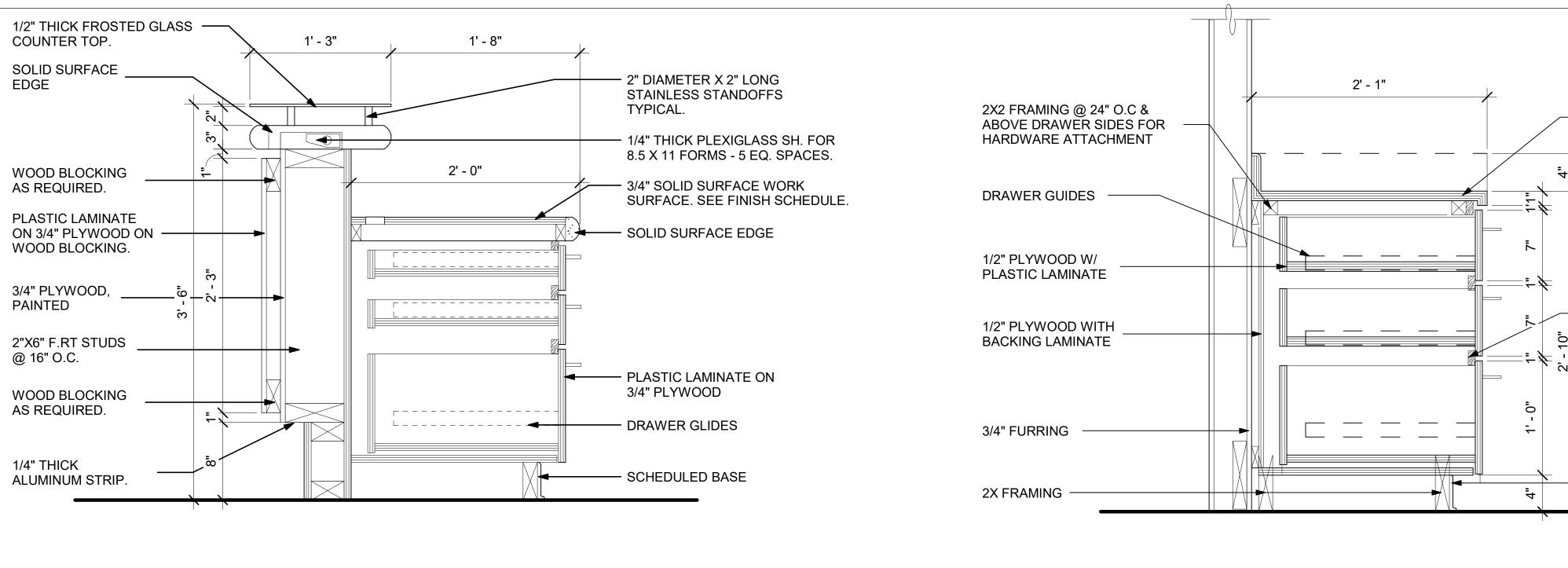




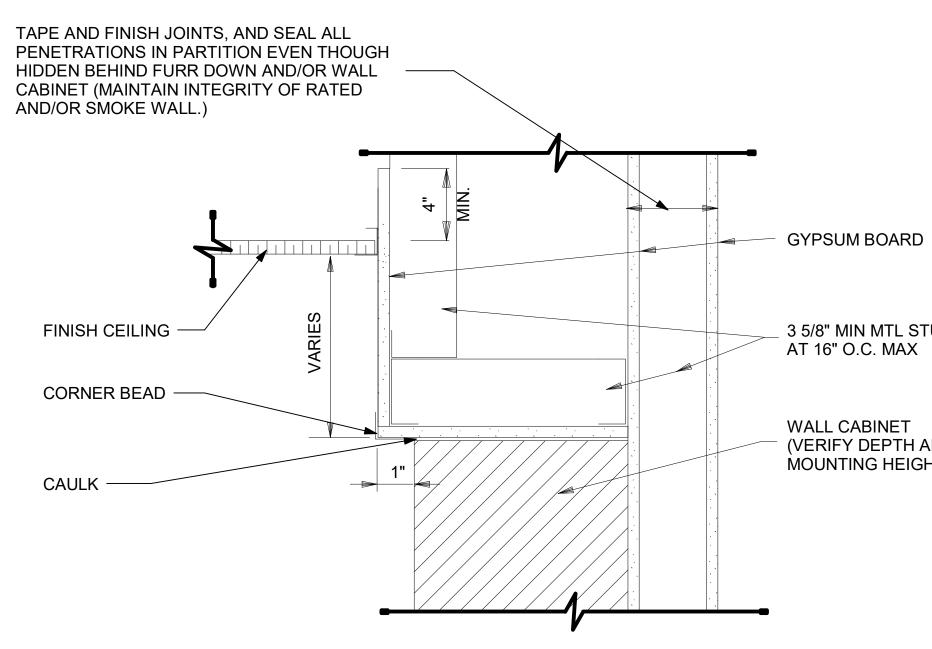
5 CASEWORK SECTION SCALE: 1 1/2" = 1'-0"



7 TRANSACTION CASEWORK WITH DRAWERS SCALE:NOT TO SCALE



3 CASEWORK SECTION SCALE:NOT TO SCALE





6 FURR DOWN ABOVE WALL CABINET SCALE: 3/16" = 1'-0"

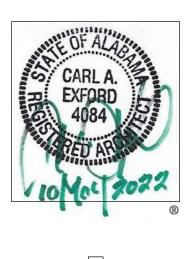
3/4" PLYWOOD COUNTER TOP EDGE BAND AND 4" BACKSPLASH WITH SOLID SURFACE

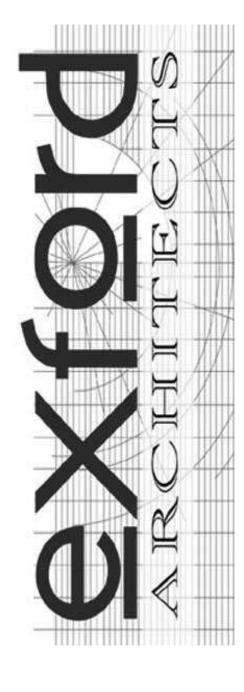
3/4" HARDWOOD BLOCKING - WITH PLASTIC LAMINATE ON EXPOSED SURFACES (TYP.)

- SCHEDULED BASE

_ 3 5/8" MIN MTL STUDS

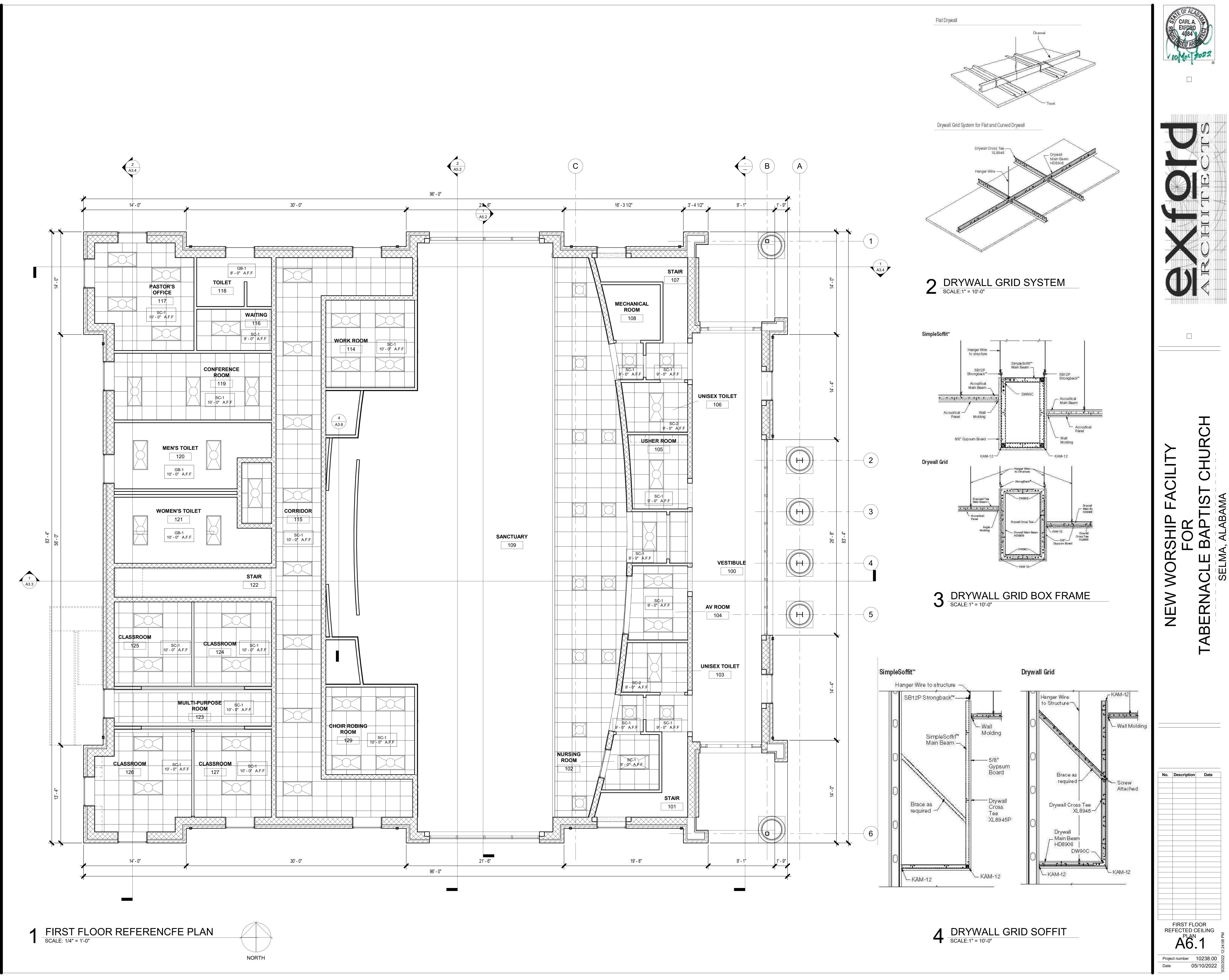
(VERIFY DEPTH AND MOUNTING HEIGHT)

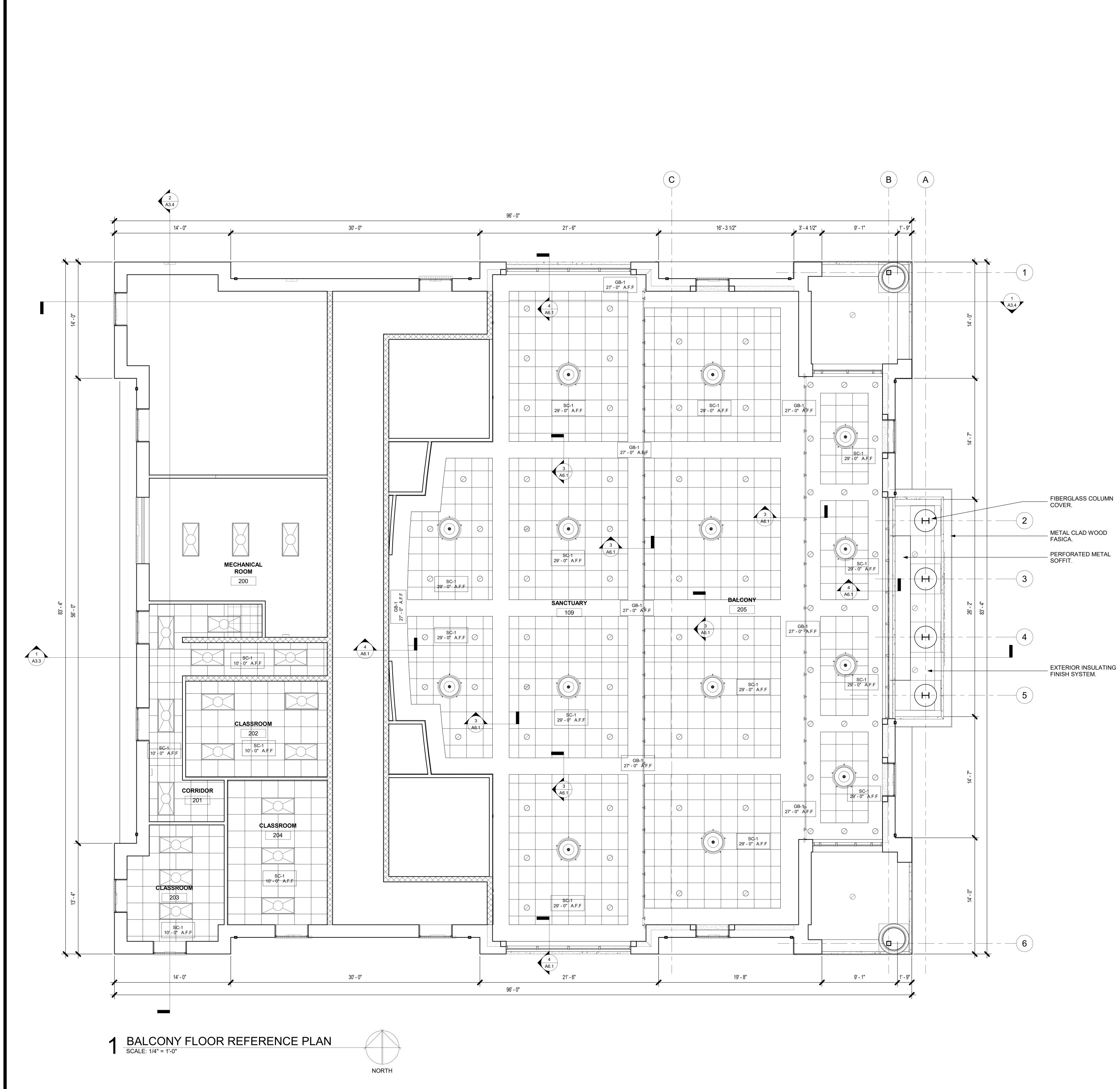




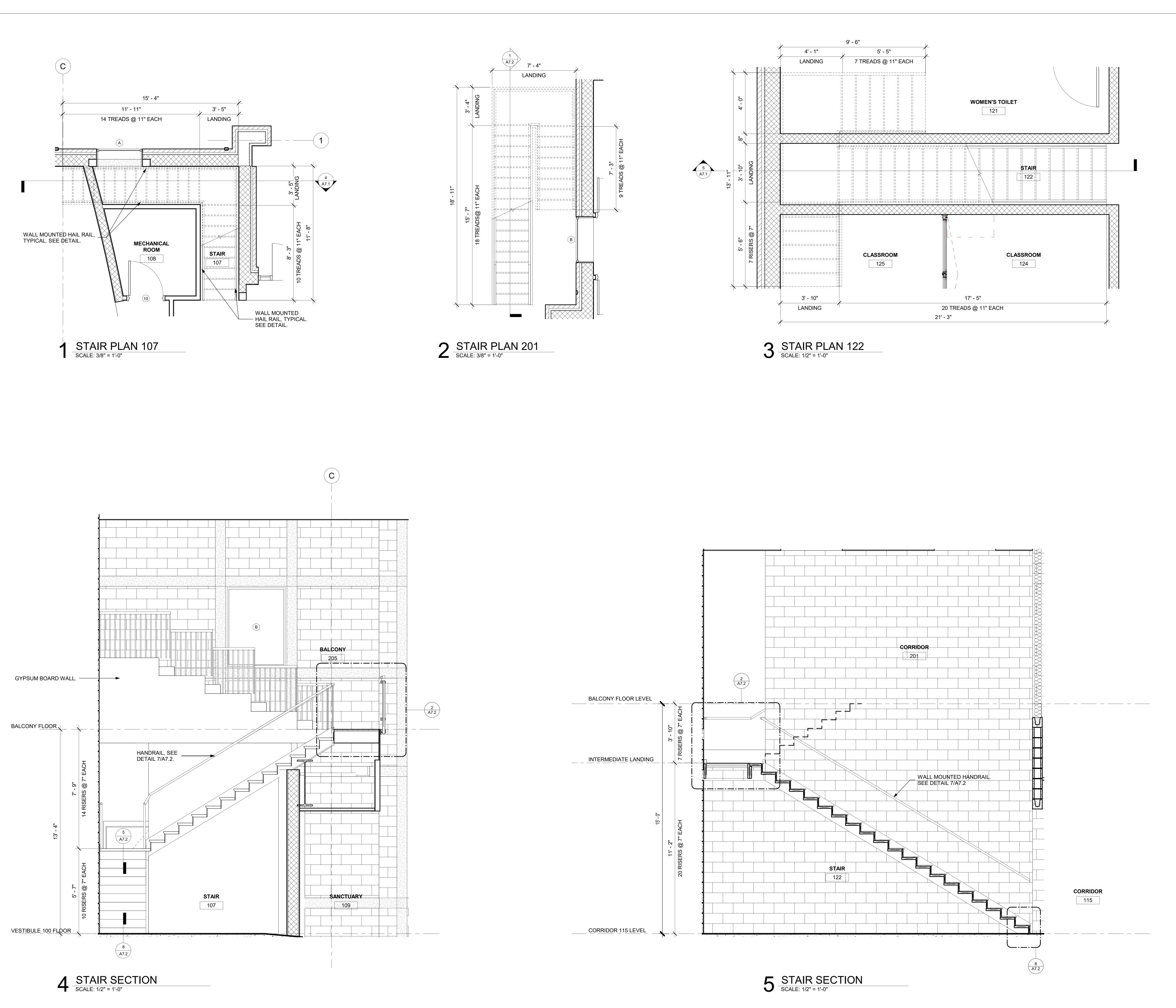
CHURCH \bigcirc S LL Ω **M** SH FOI С 0R \geq Б \bigcirc \geq >7 BERN 5 Ш Z く No. Description Date

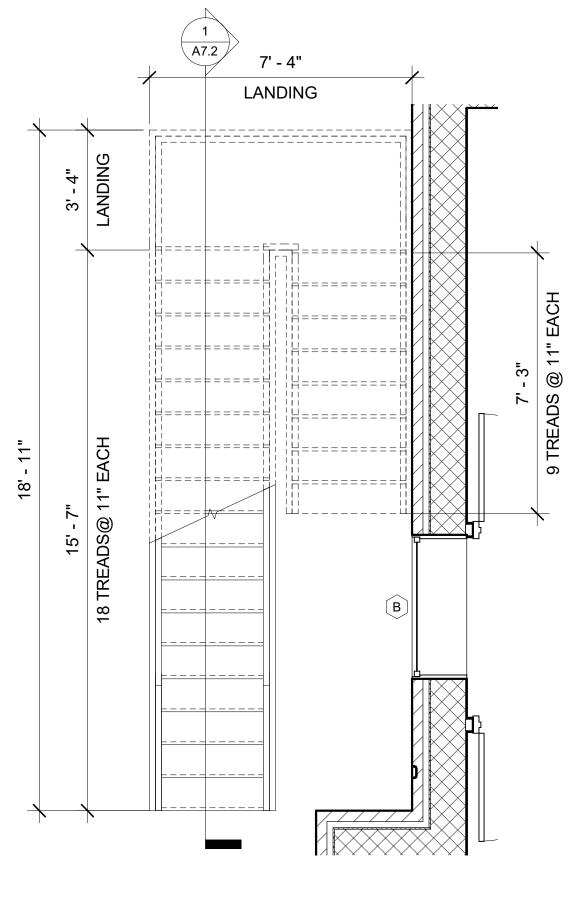
CASEWORK SECTIONS A5.4 Project number 10238.00 05/10/2022 Date





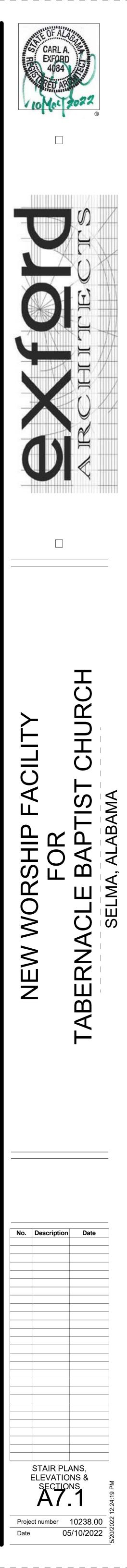


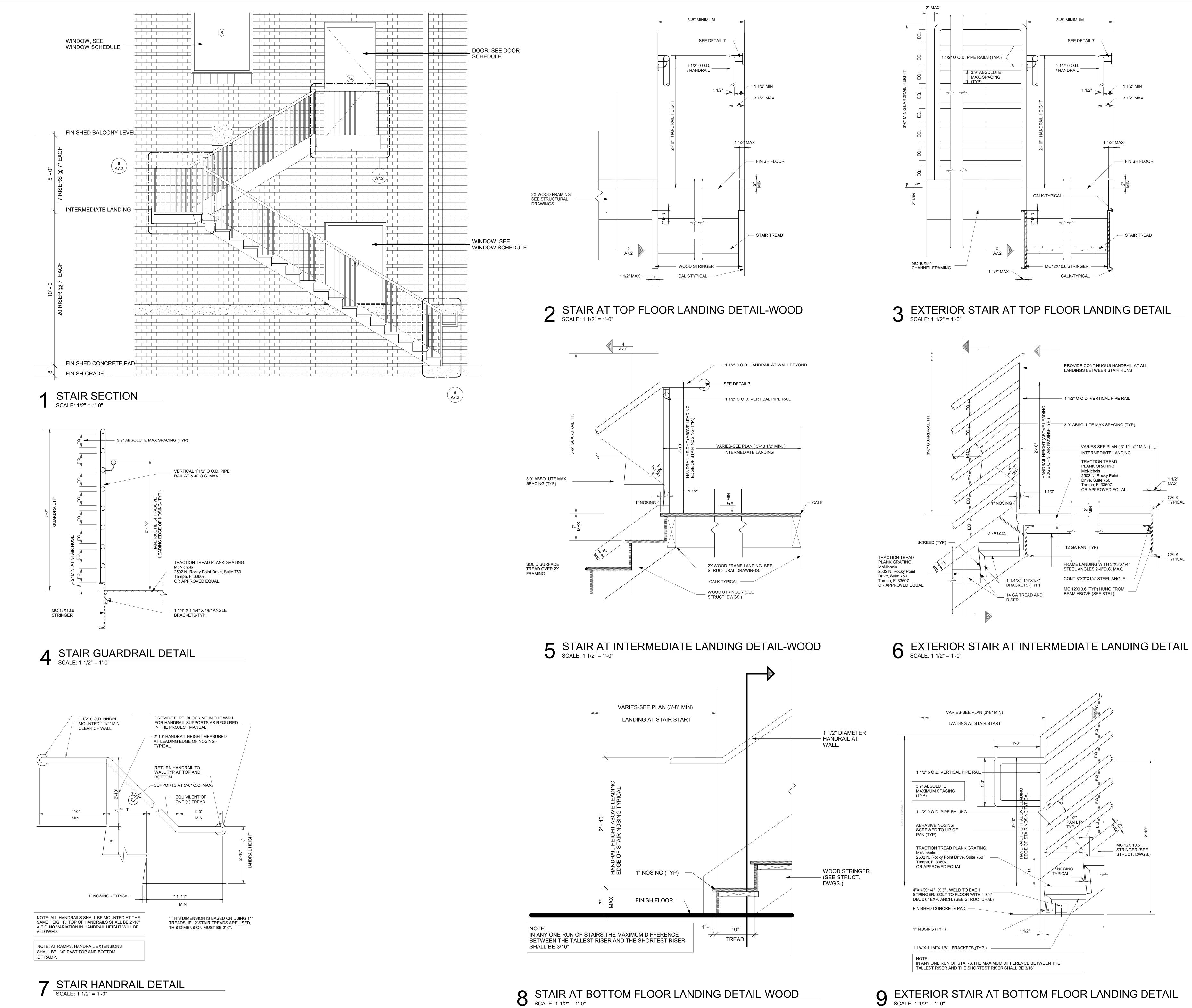


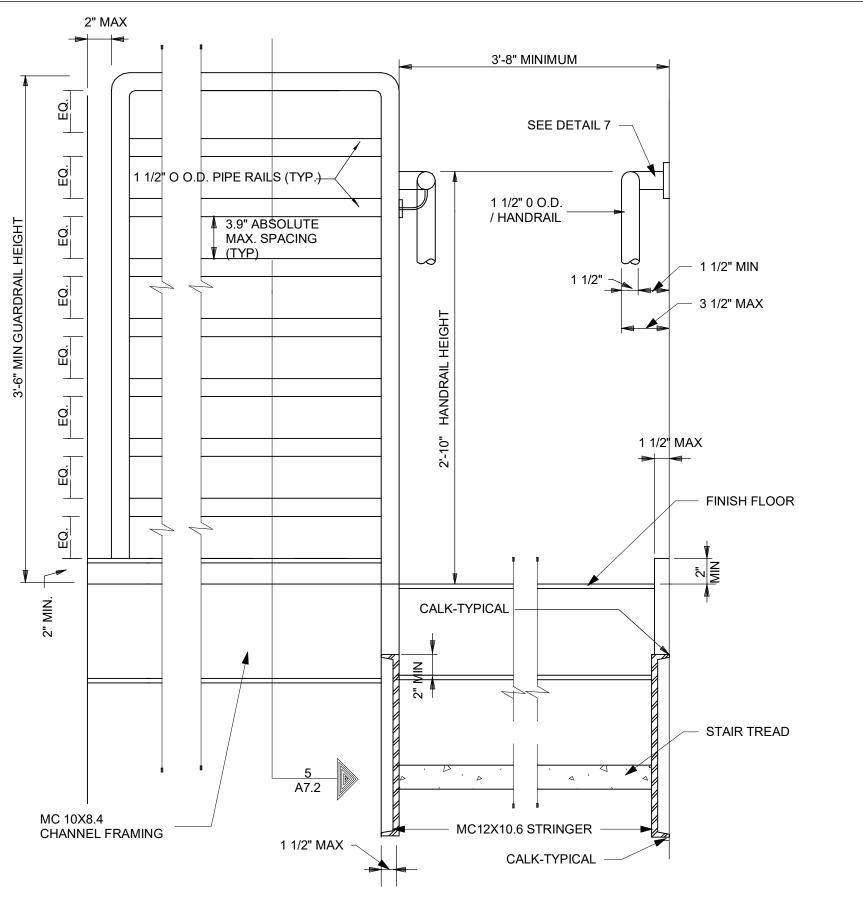








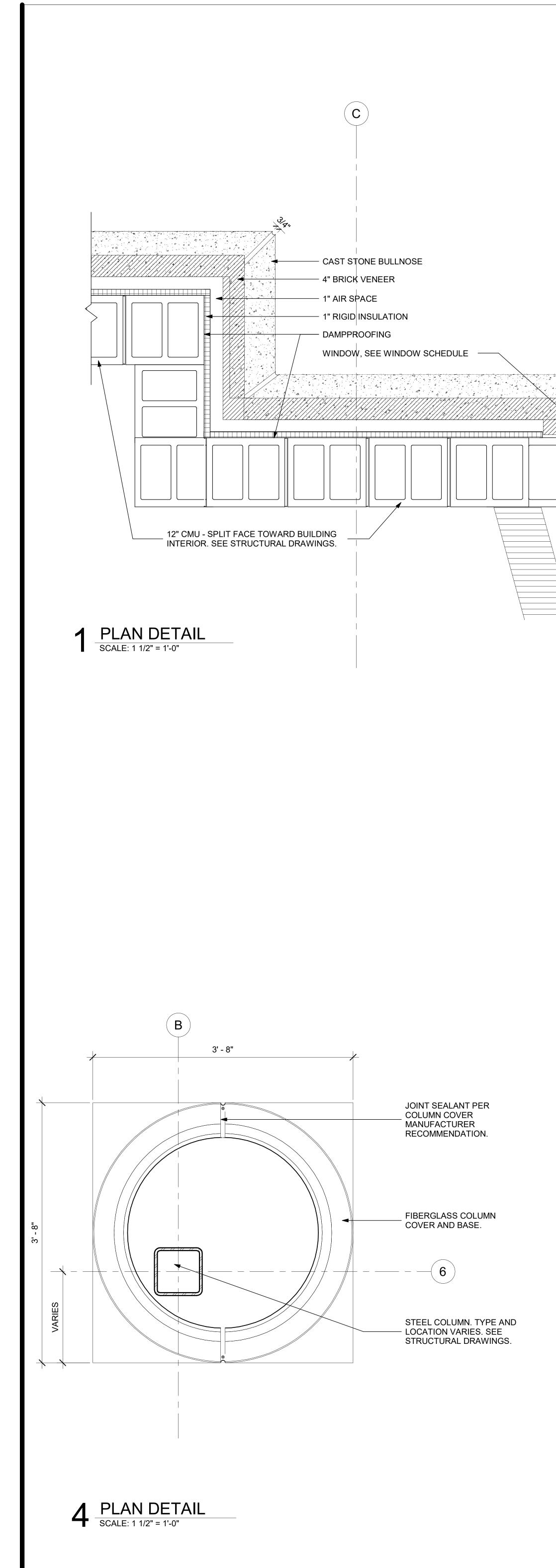


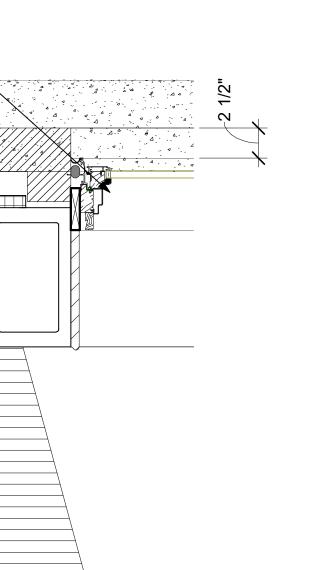


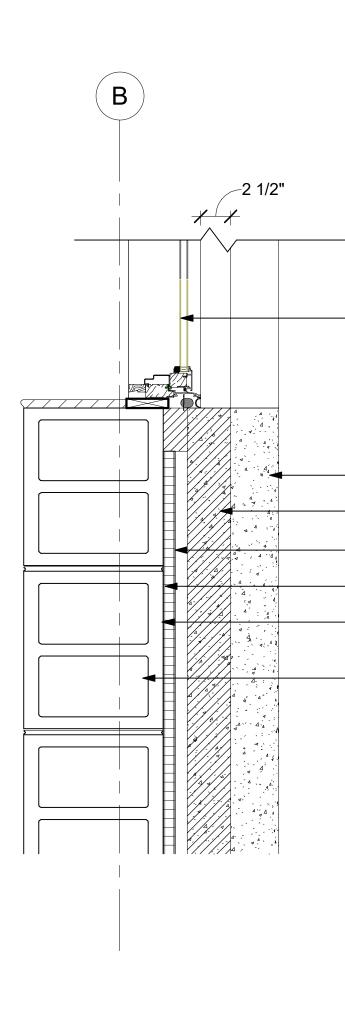


Date

05/10/2022







— CAST STONE BULLNOSE — 4" BRICK VENEER — 1" AIR SPACE - 1" RIGID INSULATION

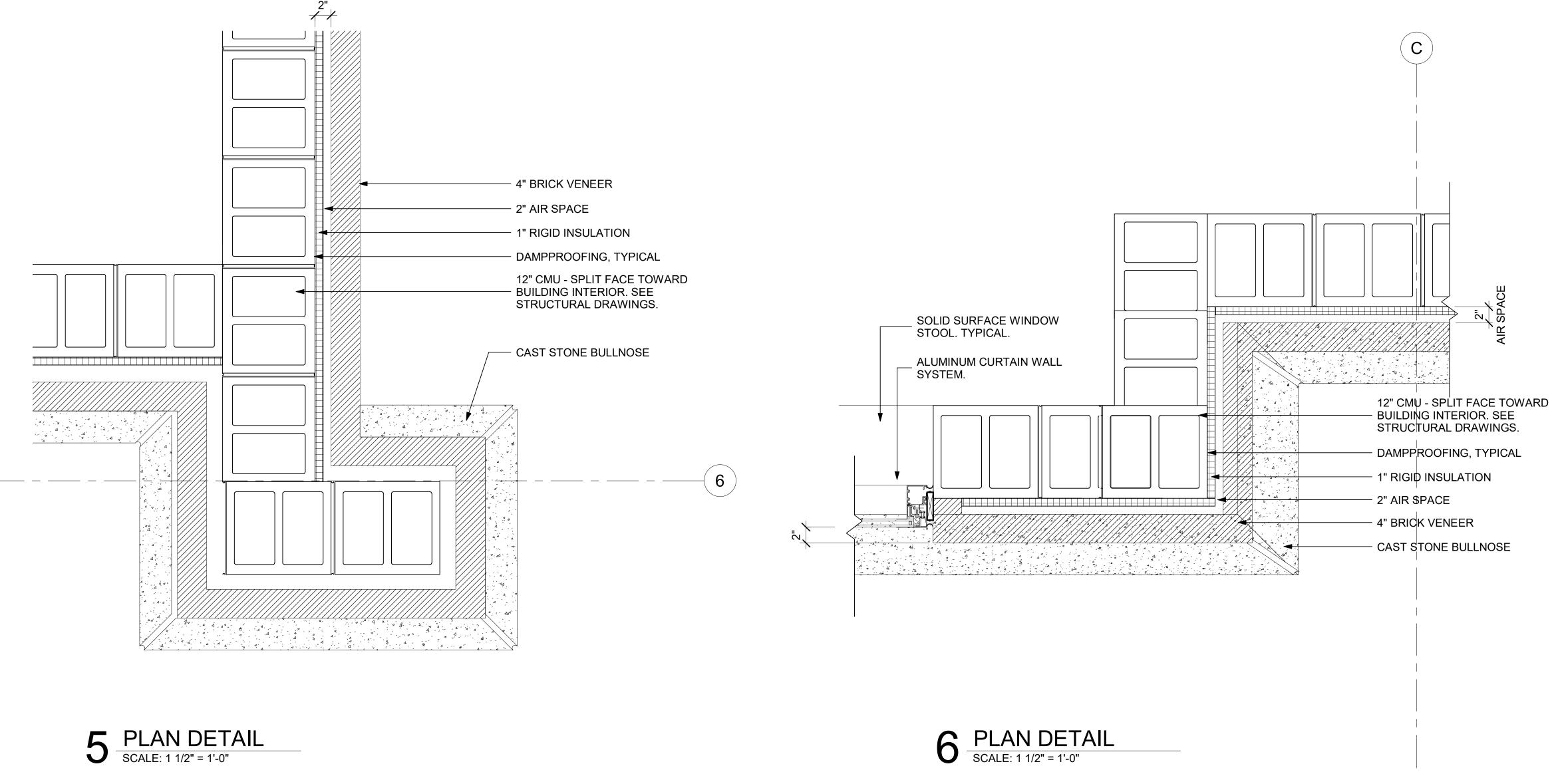
_ WINDOW, SEE WINDOW

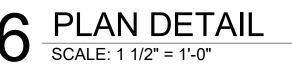
SCHEDULE

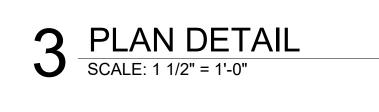
- DAMPPROOFING 12" CMU - SPLIT FACE TOWARD

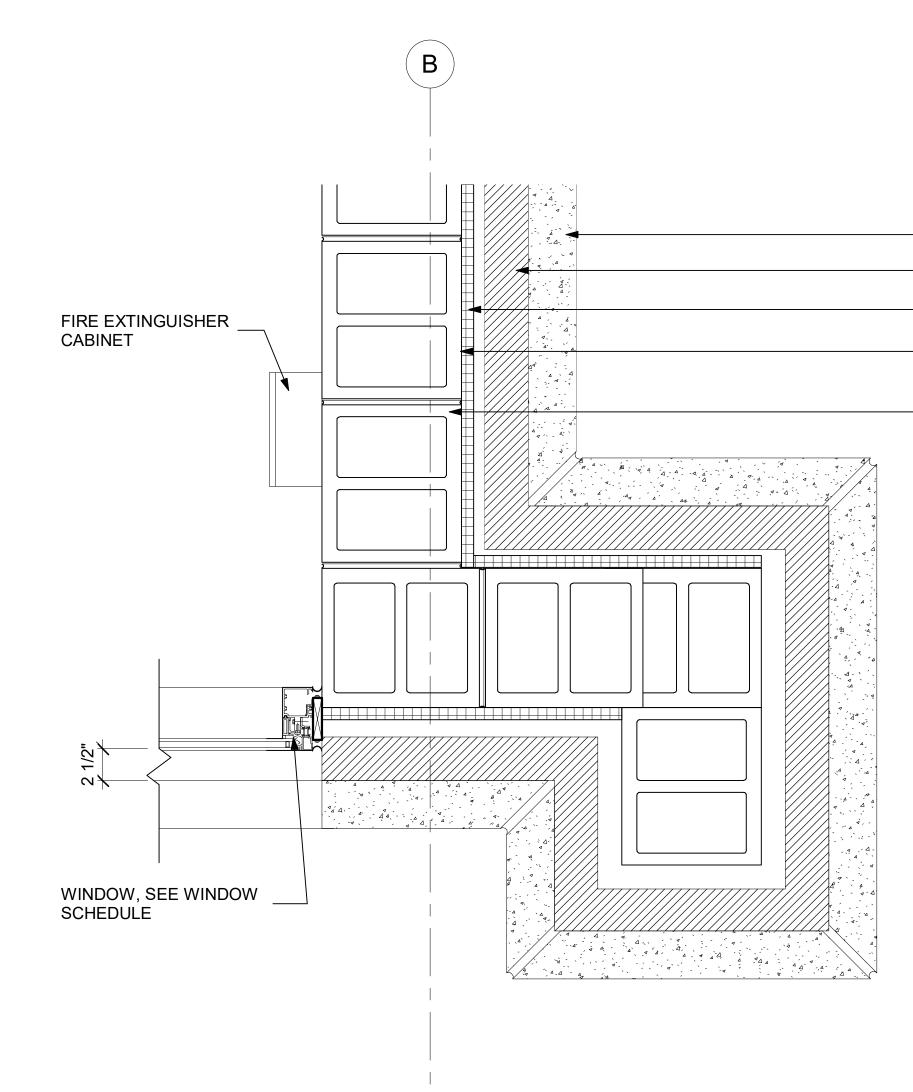
- BUILDING INTERIOR. SEE STRUCTURAL DRAWINGS.





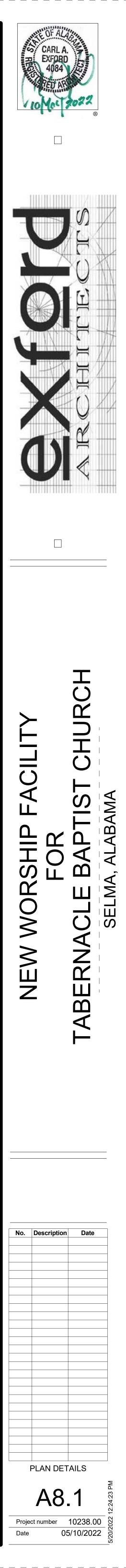


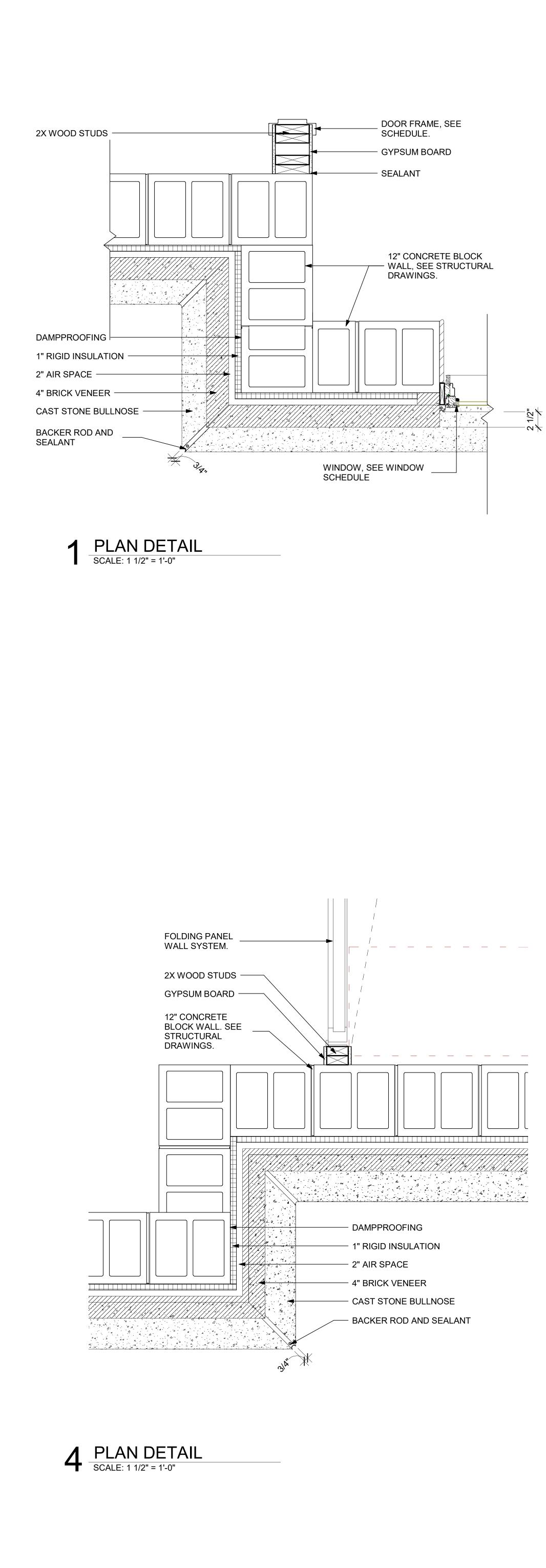




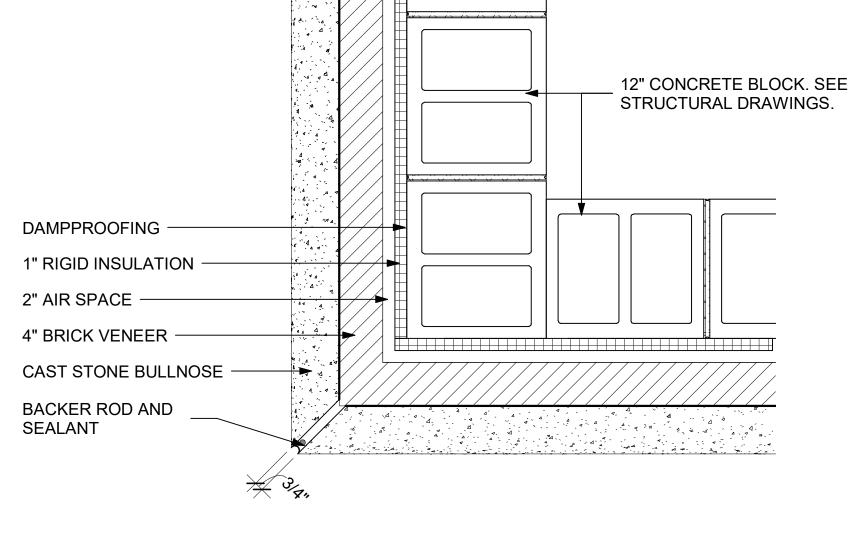


12" CMU - SPLIT FACE TOWARD BUILDING INTERIOR. SEE
 STRUCTURAL DRAWINGS.

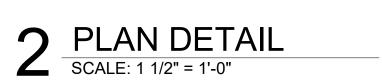


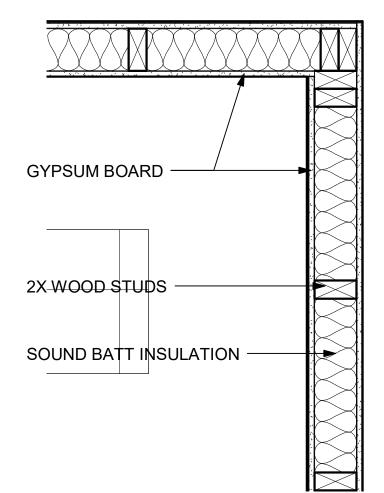




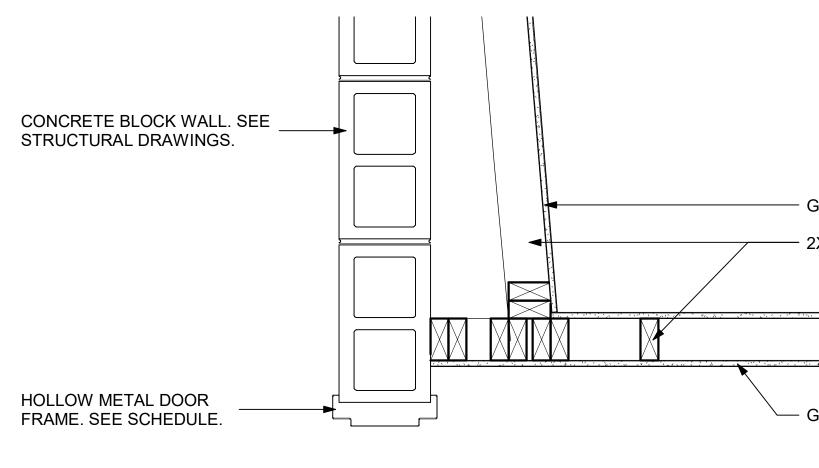


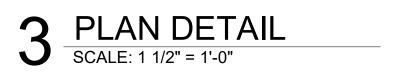


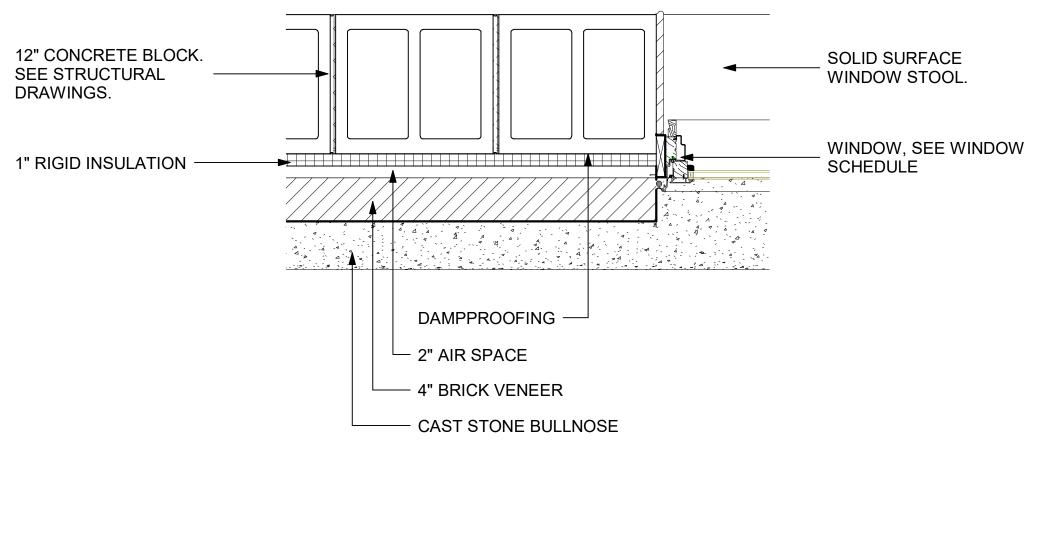




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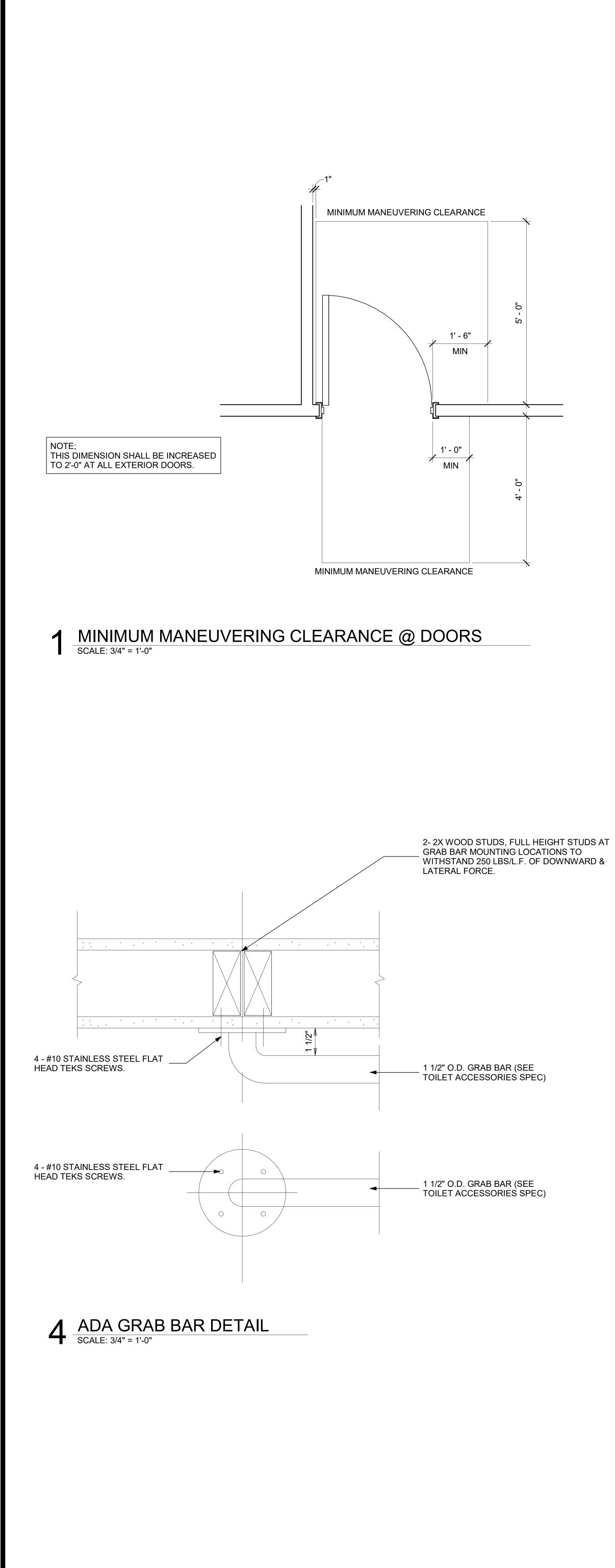
- GYPSUM BOARD, TYPICAL. - 2X WOOD STUD FRAMEING

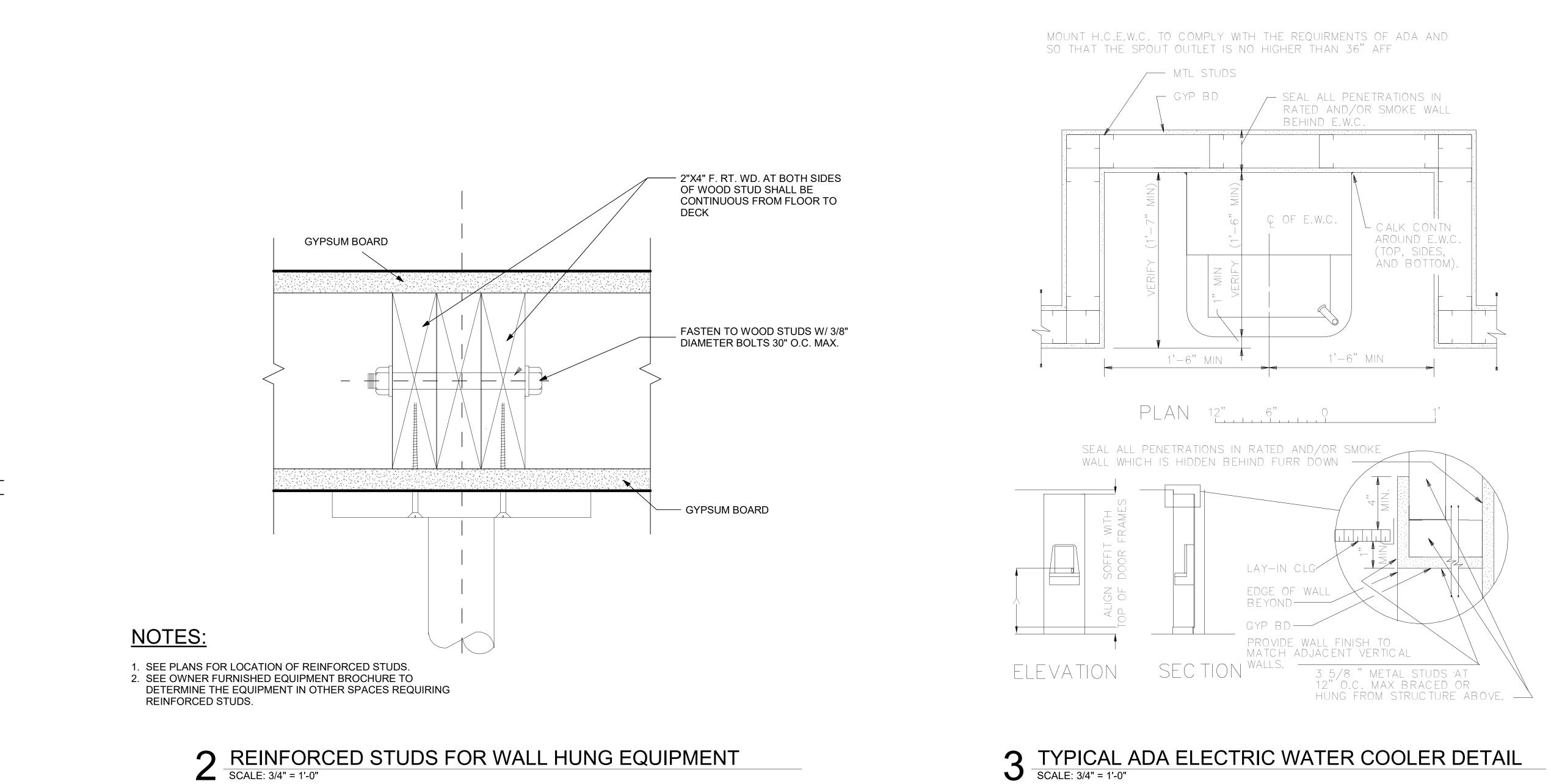


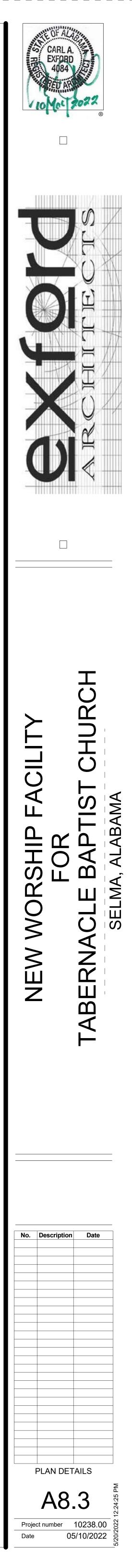
— GYPSUM BOARD, TYPICAL.

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A8.2 Project number 10238.00 Date 05/10/2022







		FINISH SO	CHEDULE			
		INTERIOR				
SHES	CODE P-1	MATERIAL MAN PAINT	NUFACTURER / DESCRIPTION SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW7003 TOQUE WHITE			
WALL FINISHE	P-2	PAINT	SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW7502 DRY DOCK			
WAL	ST-1	SPECIAL COATINGS	ARMORCLAD OR APPROVED EQUAL COLOR: WHITE			
	WP-1	WALL PANEL	MODULAR ARTS VENTANAS - WOODYPECK PANEL COLOR: CHERRY			
	WP-2	WALL PANEL	MODULAR ARTS ANSEL PANEL SYSTEM COLOR: WHITE			
BASE	RB-1	RUBBER BASE	ROPPE OR APPROVED EQUAL 4" X 120" FOOT ROLE COLOR: BLACK			
	CT-1	CERAMIC TILE	ARMORCLAD OR APPROVED EQUAL COLOR: GREY			
	VCT-1	VINYL TILE (FIELD COLOR)	ARMSTRONG OR APPROVED EQUAL EXCELON COMPANION SQUARE 12" X 12" COLOR: CIRQUE WHITE 52513			
	VCT-2	VINYL TILE (ACCENT COLOR)	ARMSTRONG OR APPROVED EQUAL EXCELON COMPANION SQUARE 12" X 12" COLOR: CLASSIC BLACK 51910			
-LOORS	VCT-3	VINYL TILE (ACCENT COLOR)	ARMSTRONG OR APPROVED EQUAL EXCELON FEATURE TILE & STRIPS 6" X 24"			
Ë	VCT-4	VINYL TILE (FIELD COLOR)	COLOR: BLACK 56790 ARMSTRONG OR APPROVED EQUAL EXCELON FEATURE TILE & STRIPS 6" X 24"			
	CT-2	CERAMIC TILE	COLOR: CHALK II 56830 BIGELOW OR APPROVED EQUAL			
	CPT-1	CARPET TILE	COLOR: 7858 KHAKI (CHENGDU STYLE) J&j FLOORING OR APPROVED EQUAL			
	WD-1	WOOD FLOORING	COLOR: FICTION 7025 / 1785 DIALOGUE HOME DECORATORS COLLECTION OR APPROVED EQUAL COLOR: PACIFIC CHERRY			
	SC-1	SEALED CONCRETE	COLOR: GREY			
DOORS	ST-1	STAIN WOOD DOORS	SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: CLASSIC CHERRY SW 3110-B			
DOD	P-3	PAINT METAL DOORS	SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW6991 BLACK MAGIC			
DOOR FRAMES	P-4 PAINT		SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW0769 IRON ORE			
TOILET	TP-1	SOLID PHENOLIC	FORMICA OR APPROVED EQUAL COLOR: BURNT STRAND			
COUNTER TOPS		SOLID SURFACE	CORIAN OR APPROVED EQUAL COLOR: SORREL			
	N STOOL	SOLID SURFACE	CORIAN OR APPROVED EQUAL COLOR: LAVA ROCK			
STAIR T	READS	SOLID SURFACE	CORIAN OR APPROVED EQUAL			
SOUND	PANELS	WALL COVERING	COLOR: LAVA ROCK EYKON DESIGN RESOURCES OR APPROVED EQUAL. COLOR: L2AE-01 HELIX			
		EXTERIOR	R FINISHES			
ASPHAL SHINGL	T ROOFING ES	CERTAIN TEED OR APPRO	OVED EQUAL			
METALS	SIDING	ARCHITECTURAL METAL COLOR: TAUPE SAND	SYSTEMS OR APPROVED EQUAL			
METAL	TRIM	ARCHITECTURAL METAL COLOR: TAUPE SAND	SYSTEMS OR APPROVED EQUAL			
FASCIA SOFFIT		SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW6041 OTTER				
DOWNS & GUTT		SHERWIN WILLIAMS OR A COLOR: SW6041 OTTER	APPROVED EQUAL			
CANOP	Y	TENNESSEE VALLEY MET COLOR: BRONZE	TALS OR APPROVED EQUAL			
COLUMN COVER		MELTON CLASSICS OR AN COLOR: IVORY	PPROVED EQUAL			
BRICK \	/ENEER	ARISCRAFT CHATEAU BR SERIES BRICK OR APPRO	OWN ARCHITECTURAL LINEAR OVED EQUAL.			
MORTA	R	LAFARGE OR APPROVED COLOR: SAVANNAH IVOR				
SPLIT F	ACE CMU	CMU-1 OLD CASTLE OR AP COLOR: SALT AND F				
		CMU-2 OLD CASTLE OR AP COLOR: TRENDSTO				
CAST S	TONE	ROCKCAST OR APPROVE COLOR: BUFFSTONE	DEQUAL			
LOUVEF	RS	SHERWIN WILLIAMS OR APPROVED EQUAL COLOR: SW6041 OTTER				

FINISH SCHEDULE

SCALE:NOT TO SCALE

GENERAL NOTES

1. REFER TO A6- SERIES, REFLECTED CEILING PLANS FOR CLARIFICATION OF PAINTED GYP. BOARD. 2. ITEMS REQUIRING FINISH SELECTIONS WHICH DO NOT APPEAR IN THE FINISH

SCHEDULE SHALL BE SELECTED FROM SAMPLE SUBMITTALS MADE TO THE ARCHITECT. 3. THE GENERAL CONTRACTOR IS TO SUBMIT FOUR SAMPLES OF EACH PAINT COLOR IN THE APPROPRIATE FINISH TO THE ARCHITECT FOR APPROVAL PRIOR TO PURCHASING PAINT. SAMPLES ARE TO BE PAINTED ON 8-1/2 X 11 POSTER BOARD, AND SHALL HAVE THE SAME FINISH AND NUMBER OF COATS AS REQUIRED FOR THE ACTUAL WORK.

4. UNLESS OTHERWISE STATED IN THE SPECIFICATIONS, ALL PAINTED SURFACES SHALL RECEIVE ONE PRIME AND A MINIMUM OF TWO FINISH COATS. PRIME ALL SURFACES ACCORDING TO MANUFACTURER'S SPECIFICATIONS PRIOR TO APPLICATION OF PAINT. THE NUMBER OF COATS SPECIFIED IS THE MINIMUM NUMBER REQUIRED. APPLY ADDITIONAL COATS WHEN UNDERCOATS, STAINS, OR OTHER CONDITIONS SHOW THROUGH FINAL COAT OF PAINT UNTIL PAINT FILM IS OF UNIFORM FINISH, COLOR AND APPEARANCE. 5. ALL SURFACES WHICH ARE TO RECEIVE A FINISH APPLICATION SHALL BE SMOOTH. IF SURFACES ARE NOT ACCEPTABLE TO RECEIVE FINISHES, NOTIFY

GENERAL CONTRACTOR AND HAVE SURFACES CORRECTED BEFORE BEGINNING FINISH APPLICATION. 7. REFER TO SPECIFICATIONS FOR ADDITIONAL PRODUCT INFORMATION NOT INCLUDED IN THE FINISH PLANS OR OTHER DRAWINGS.

8. ALL INTERIOR FINISH SPECIFICATIONS, AS REQUIRED OF THE ARCHITECT, ARE INCLUDED HEREIN (OR IN THE ATTACHED SPECIFICATIONS). SHOULD ANY QUESTIONS ARISE REGARDING THE FINISH DRAWINGS OR SPECIFICATIONS WHICH REQUIRE CLARIFICATION, THE ARCHITECT IS TO BE CONSULTED BEFORE PROCEEDING. THE ARCHITECT IS NOT RESPONSIBLE FOR DISCREPANCIES THAT ARISE DUE TO CHANGES BY CONTRACTORS OR OWNER AFTER THIS DATE.

9. REFER TO FINISH PLANS FOR TRANSITION POINTS OF MATERIALS. 10.REFER TO SHEET D2.0 FOR INTERIOR FINISH TRANSITION DETAILS. 11.PROVIDE CARPET REDUCER STRIP AS SHOWN IN DETAIL 3/D2.0 AT ALL CARPET/VCT TRANSITIONS. ROPPE PROFILE #50 COLOR TO BE SELECTED BY ARCHITECT.

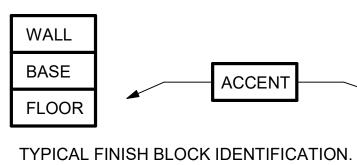
12.ALL REDUCER STRIPS AND OTHER THRESHOLDS SHALL BE LOCATED AT CENTERLINE OF OPENING OR DOOR WHEN IN CLOSED POSITION. ALL CHANGES IN COLOR THAT OCCUR IN THE SAME FLOORING FINISH MATERIAL SHALL BE LOCATED AT CENTERLINE OF DOOR WHEN IN CLOSED POSITION. 13.ALL RUBBER BASE IS TO BE 4" HIGH, UNLESS OTHERWISE NOTED. AT

CORNERS: USE PRE MOLDED INSIDE AND OUTSIDE CORNER UNITS. MITERED JOINTS AT OUTSIDE CORNERS IS NOT ACCEPTABLE. 14.ALL DOOR FRAMES SHALL BE PAINTED. FINISH SHALL BE SEMI-GLOSS. 15.ALL PAINTED EXTERIOR DOORS AND FRAMES, NOT INCLUDING STOREFRONT TYPE DOORS, SHALL BE PAINTED AS DIRECTED BY ARCHITECT. 16. UNFINISHED MISCELLANEOUS METAL (RETURN AND SUPPLY AIR GRILLS,

EXPANSION JOINTS FIRE EXTINGUISHER CABINETS, ETC.) IS TO BE FIELD PAINTED TO MATCH ADJACENT WALL, CEILING OR FLOOR COLOR UNLESS OTHERWISE NOTED. THE ARCHITECT IS TO BE CONSULTED REGARDING ITEMS TO BE PAINTED. 17.ALL INTERIOR HOLLOW METAL DOORS TO BE PAINTED TO MATCH ARCHITECT'S SAMPLE.

18. REFER TO SPECIFICATIONS FOR (CASEWORK ELEVATIONS, AND SCHEDULE OF APPLICATION OF PLASTIC LAMINATE TO CASEWORK. 19.ALL METAL STAIR COMPONENTS SHALL BE PAINTED.

20. PROVIDE ROPPE REDUCER STRIP #45 AT VCT JUNCTURE WITH SEALED CONCRETE FLOOR AT DOORS INTO STAIRS. CENTER UNDER DOOR THRESHOLD. 21.WOOD MOULDING AND TRIM PIECES SHALL BE BASED ON WHITE COUNTY MOULDING CATALOG CLEVELAND, GEORGIA.



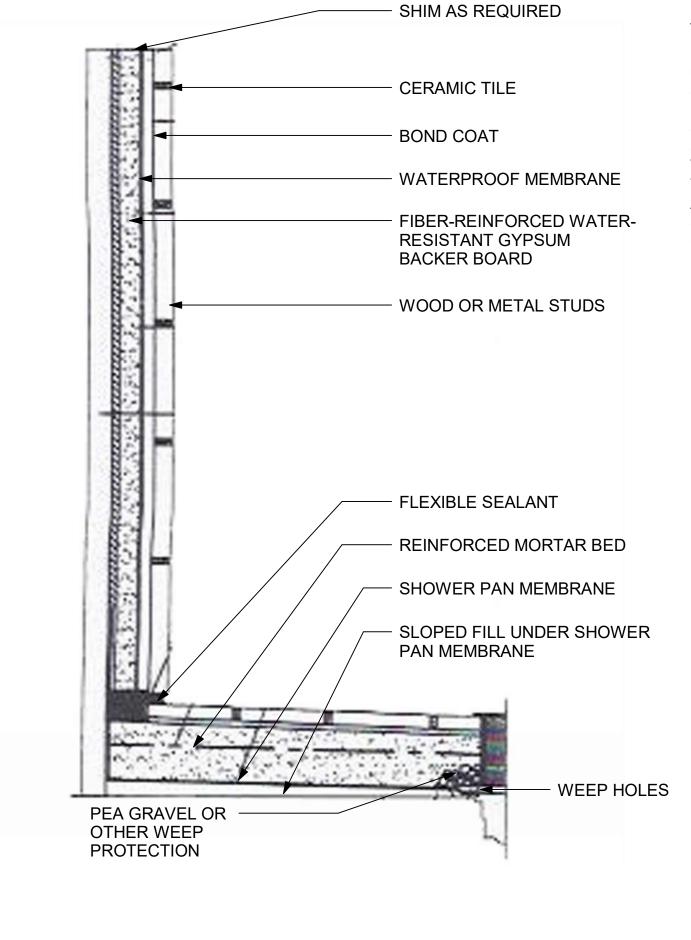


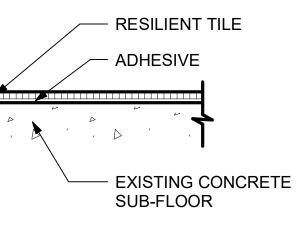
BOND COAT
MORTAR SETTING BED $_$





6 SHOWER SECTION DETAIL SCALE:1" = 10'-0"







7 DETAIL FINISHED DESIGNATION SYMBOLS

SEE FINISH PLAN AND SCHEDULE.



EXISTING CONCRETE SUB-FLOOR

ADHESIVE -

RESILIENT TILE -

-Kastanes

REDUCING STRIP (PLASTIC OR METAL -SEE SPECIFICATIONS _____ FOR MORE SPECIFIC REQUIREMENTS)

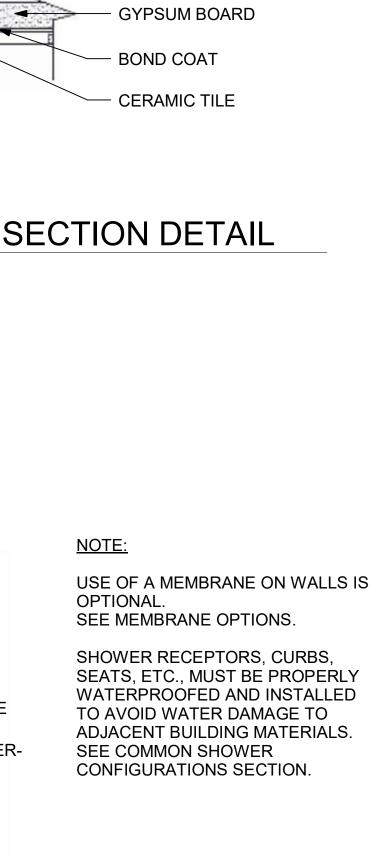
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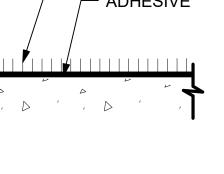
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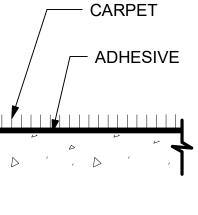


- ADHESIVE Δ



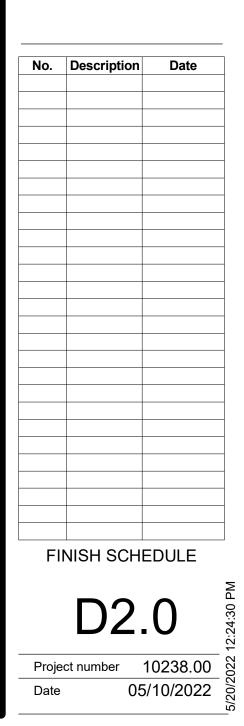


- METAL STUD FRAMING





HURCH \mathbf{O} \bigcirc **A** S LL Ω **M** ΗŌ m SЩ R \geq O \bigcirc \geq S S A 7 \leq BERN Ш Z A











THE STRUCTURAL GENERAL NOTES APPLY EXCEPT WHERE INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. A DETAIL SHOWN FOR ONE CONDITION APPLIES FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY INDICATED ON THE DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING,	b. с.	STRUCTURES (ACI 530.1)". LATEST MICHIGAN. HOLLOW LOAD-BEARING MASONRY COMPRESSIVE STRENGTH FOR THE FILL ALL BOND BEAMS, CELLS BELO
SHORING, TEMPORARY SUPPORTS, AND ALL OTHER MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. COORDINATE THE STRUCTURAL CONTRACT DOCUMENTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL,	d.	ALL GROUT SHALL BE NORMAL WEI THE FOLLOWING PROPERTIES: • MINIMUM DENSITY: • ALLOWABLE SLUMP:
PLUMBING, CIVIL, AND ALL OTHER CONSULTANTS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN WRITING OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES PRIOR TO EXCAVATION FOR BUILDING FOUNDATIONS. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF POTENTIAL CONFLICTS BETWEEN FOUNDATIONS AND BURIED	e. f.	POUR GROUT IN LIFTS. MAXIMUM F PROVIDED AT BOTTOM OF CELLS T REINFORCING STEEL SHALL BE IN A
UTILITIES. COORDINATE AND VERIFY FLOOR AND ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE	g.	BARS WHICH ARE SHOWN TO BE HO SPLICES OR AS SPECIFIED IN LAP S THE USE OF MASONRY-CEMENT MC
STRUCTURAL DRAWINGS REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS. SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.		S. ALL MORTAR SHALL MEET THE PL CEMENT/LIME (NON-AIR- ENTRAIN) • PORTLAND CEMENT: • HYDRATED LIME:
AITTALS SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT & ENGINEER OF RECORD PRIOR TO FABRICATION AND CONSTRUCTION REGARDING ALL STRUCTURAL ITEMS INCLUDING THE FOLLOWING: • CONCRETE MIX DESIGNS	h.	AGGREGATE: WATER: GROUT MIX DESIGN PROPORTIONS OTHERWISE. TEST RESULTS SHALL
 CONCRETE AND MASONRY REINFORCING EMBEDDED STEEL ITEMS STRUCTURAL STEEL FRAMING ENGINEERED WOOD TRUSS (ROOF & FLOOR) 		INDEPENDENT TESTING LABORATO WITHIN 90 DAYS OF SUBMITTAL. A • GROUT TESTING SHALL BE EVERY 5000 SQUARE FEET
IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ALABAMA. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO THE	i.	 TESTING PERSONNEL WILL: COLLECT ALL BATCH PLANT CHECK AND MONITOR EACH
REVIEW AND ACCEPTANCE BY THE ENGINEER OF RECORD. REVIEW OF THE SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD IS ONLY FOR GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND DOES NOT RELIEVE THE CONTRACTOR OF THE		TEMPERATURE, REVOLUTIO TEST PUMPED GROUT AT T TAKEN AT THE TRUCK DISC
RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR MUST REVIEW AND STAMP ALL SUBMITTALS PRIOR TO SUBMISSION. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE	j. k.	TESTING PERSONNEL SHALL PROM UNLESS APPROVED OTHERWISE BY NOT MEETING THE REQUIREMENTS UNLESS NOTED OTHERWISE, ALL V
CONTRACT DOCUMENTS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. DO NOT MAKE SHOP DRAWINGS USING REPRODUCTIONS OF THE CONTRACT DOCUMENTS OR REFERENCING THE	l. m.	UNLESS NOTED OTHERWISE, ALL V UNLESS NOTED OTHERWISE ON ST VERTICAL #5 BAR IN FULLY GROUT BARS ARE TO EXTEND FROM FOOT
CONTRACT DOCUMENTS. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS, SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN	n.	BOTTOM OF BOND BEAM AT TOP C ONE (1) VERTICAL #5 BAR IN FULL ON EACH SIDE OF DOOR AND WIN
THE STATE OF ALABAMA, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. SHOP DRAWINGS MUST INDICATE THE REQUIRED MATERIALS, SIZES, AND LOCATIONS OF ALL FRAMING MEMBERS AND CONNECTIONS. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON THE STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE	0.	BARS TO EXTEND FROM FOOTING BOND BEAM AT TOP OF WALL OR F MASONRY WALLS SHALL BE CONST DESCRIBED IN ACI 530. 'HIGH LIFT
BASED ON THE REQUIREMENTS OF THE BUILDING CODE EDITION OUTLINED IN STRUCTURAL GENERAL NOTE SECTION 1. THE ITEMS REQUIRED TO BE DESIGNED BY OTHERS INCLUDES: • STAIRS, ORNAMENTAL GUARDRAILS, & RAILINGS		MEETING THE FOLLOWING MINIMU SUCCESSFUL COMPLETION CONSTRUCTION.
 ENGINEERED WOOD TRUSSES (FLOOR & ROOF) CURTAIN WALLS AND ALL OTHER GLAZING SYSTEMS PROVIDE CURTAIN WALL GLAZING SYSTEM SHOP DRAWINGS THAT CLEARLY INDICATE THE ATTACHMENT TO THE 		CONTRACTOR SHALL SUBM THE DOCUMENTATION OF MASONRY CONSTRUCTION
STRUCTURE ON ALL SIDES OF THE EXTERIOR GLAZING SYSTEM REQUIRED TO ADEQUATELY RESIST THE APPLICABLE WIND DESIGN PRESSURES. THE GLAZING CONTRACTOR MUST PROVIDE ENGINEERING CALCULATIONS TO DOCUMENT COMPLIANCE WITH CHAPTER 24 OF THE RULL DINC CODE VERSION OUTLINED IN STRUCTURAL CENERAL NOTES SECTION 1 OF THIS	р. q.	PROVIDE REBAR DOWELS FROM FO SHALL HAVE STANDARD 90 DEGRE BOND BEAMS SHALL BE PLACED AT
CHAPTER 24 OF THE BUILDING CODE VERSION OUTLINED IN STRUCTURAL GENERAL NOTES SECTION 1 OF THIS SHEET. THE DESIGN OF SPECIAL CONNECTIONS BETWEEN STEEL FRAMING COMPONENTS (INCLUDING BUT NOT LIMITED TO BRACED END CONNECTIONS, MOMENT-RESISTING CONNECTIONS, MODIFIED BEAM SEAT CONNECTIONS, AND	r. s.	BETWEEN BEARING ELEVATIONS O DISCONTINUE ALL HORIZONTAL RE REINFORCEMENT PROVIDED AT BE PROVIDE CORNER REINFORCEMEN
MEMBER SPLICE CONNECTIONS) NOT DESIGNED BY THE STRUCTURAL ENGINEER OF RECORD MUST BE PERFORMED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA.	s. t.	BEAM INTERSECTIONS. LAP REINF REINFORCING 12" INTO REINFORC FOR HORIZONTAL REINFORCEMEN
FORCED CONCRETE PROVIDE REINFORCED CONCRETE CONFORMING TO THE FOLLOWING STANDARDS: ACI 301-11, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS ACI 318-11 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE	u.	PROVIDE ONE (1) #5 BAR AT 4'-0" LINTELS OVER DOOR AND WINDO BOND BEAM WITH TWO (2) CONTI
 ACI 318-11, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 302.1R-15, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION ACI 360R-10, DESIGN OF SLABS-ON-GROUND UNLESS NOTED OTHERWISE, PROVIDE NORMAL WEIGHT CONCRETE WITH 3,000 PSI COMPRESSIVE STRENGTH AT 	v.	SHALL CONTINUE BEYOND EACH S PROVIDE CONCRETE MASONRY UN A SPACING OF 3x THE WALL HEIGH LOCATIONS AND SEALANT REQUIR
28 DAYS. PROVIDE 4% TO 6% ENTRAINED AIR BY VOLUME IN CONCRETE PERMANENTLY EXPOSED TO WEATHER. PROVIDE CONCRETE WITH A MAXIMUM WATER-TO-CEMENTITIOUS MATERIALS RATIO OF 0.50.	w. x.	WHERE BEAMS OR LINTELS BEAR / REINFORCING AS INDICATED. PRO THE MASONRY CONTRACTOR SHAI
FULLY DOCUMENT AND SUBMIT FOR REVIEW THE PROPOSED MATERIALS AND MIX DESIGN FOR ALL CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED DESIGN STRENGTH. ALL CONCRETE TEST DATA MUST BE AVAILABLE AT THE JOB SITE.	у.	CONSTRUCTION. REINFORCING SHALL BE TIED IN (HORIZONTAL JOINT REINFORCING
THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IS NOT PERMITTED. PLACE CONCRETE AT A SLUMP OF 5" ± 1". CHAMFER OR ROUND ALL EXPOSED CORNERS A MINIMUM OF 3/4". DETAIL CONCRETE REINFORCEMENT ACCORDING TO ACI SP-66 DETAILING MANUAL. SUBMIT SHOP DRAWINGS FOR	Z.	12 Ga. BRICK TIE ANCHORS ARE T SPACE BRICK TIES AT MAXIMUM 1 WITH BRICK TYPE ON ARCHITECT
APPROVAL SHOWING ALL FABRICATION DIMENSIONS AND LOCATIONS FOR PLACING CONCRETE REINFORCING AND ACCESSORIES. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD.	9. s a.	STRUCTURAL SAWN LUMBER PROVIDE STRUCTURAL SAWN LUM • NATIONAL DESIGN SPECIF
UNLESS NOTED OTHERWISE, PROVIDE REINFORCING STEEL CONFORMING TO ASTM A615, GRADE 60. TIE ALL REINFORCING STEEL AND EMBEDDED ITEMS SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN THE POSITION OF THE REINFORCEMENT WITHIN SPECIFIED TOLERANCES	b.	UNLESS NOTED OTHERWISE, PRO FRAMING LUMBER & VERTICAL ST EQUIVALENT FOR OTHER MISCELL
DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS, ANCHOR RODS, OR OTHER EMBEDDED ITEMS INTO WET CONCRETE IS NOT PERMITTED. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF FOOTINGS, BEAMS, AND WALLS. LAP CORNER BARS WITH MAIN REINFORCING AS OUTLINED IN REINFORCING LAP SLICE SCHEDULE THIS SHEET.	c. d.	ALL LUMBER IN CONTACT WITH C TREATED IN ACCORDANCE WITH A ALL WOOD FASTENINGS MUST CO SCREWS SHALL CONFORM TO ANS
PROVIDE BASIC CLASS "B" TENSION LAPS IN ALL REINFORCING BARS INDICATED AS CONTINUOUS. THE PLACEMENT OF ALL REINFORCING STEEL MUST BE REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA OR BY A REPRESENTATIVE RESPONSIBLE TO HIM (REF: ACI 318, 1.3.1).	e.	WITH STANDARD CUT WASHERS. FASTENINGS NOT INDICATED ON BUILDING CODE REFERENCED IN S
 UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING CONCRETE COVER ON ALL REINFORCING STEEL: FOUNDATIONS (NOT FORMED): 3" BOTTOM AND SIDES, 2" TOP SLABS 3/4" TOP 	f. g.	UNLESS NOTED OTHERWISE, TOE PROVIDE METAL CONNECTORS FO PROVIDE COMMON WIRE NAILS U
COLUMNS 1-1/2" TO TIES, 2" TOP BEAMS 1-1/2" TO STIRRUPS WALLS 1-1/2" DO NOT WELD OR TACK WELD REINFORCING STEEL UNLESS APPROVED OR DIRECTED BY THE STRUCTURAL	h.	BY THE FRAMING CONNECTOR MA FRAMING ACCESSORIES AND STRU APPROVED EQUAL) AND OF THE SI SIMPSON LUS OF SIZE RECOMMEN
ENGINEER OF RECORD. PROVIDE REINFORCING STEEL ONLESS APPROVED OR DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD. PROVIDE REINFORCING STEEL CONFORMING TO ASTM A706, GRADE 60 WHERE WELDING IS APPROVED OR DIRECTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN ALLOWANCE OF REINFORCING BARS TO BE PLACED	i.	INSTALL MAXIMUM SIZE AND NUM CONNECTOR. PROVIDE FASTENERS AND METAL I
DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD DURING CONSTRUCTION IN ADDITION TO ALL REINFORCING STEEL INDICATED ON THE CONTRACT DOCUMENTS.	j.	MINIMUM G90 GALVANIZED FINISH STAINLESS STEEL OR G185 GALVA UNLESS NOTED OTHERWISE, PROV
FORCED CONCRETE SLABS THE FINAL LOCATION OF CONSTRUCTION JOINTS REQUIRES THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. UNLESS NOTED OTHERWISE, THOROUGHLY ROUGHEN (BY MECHANICAL MEANS) AND CLEAN CONSTRUCTION JOINTS AND PLACE @ 15'-0" ON CENTER. MAXIMUM.	k.	POINTS FOR ALL JOISTS AND RAF UNLESS NOTED OTHERWISE, PROV BEARING STUD WALLS. PROVIDE REINFORCEMENT (WOOI
PROVIDE WELDED WIRE FABRIC (MESH) IN FLAT SHEETS (ROLLS NOT PERMITTED) CONFORMING TO ASTM A185 AND ASTM A82. LAP WELDED WIRE FABRIC A MINIMUM OF 6" AT EACH SPLICE. PLACE WELDED WIRE FABRIC 3/4" BELOW THE TOP OF SLABS.	 m.	PLUMBING OR WIRING SUCH THAT
PROVIDE AT MINIMUM A 4" LAYER OF CRUSHED STONE OVER CLEAN COMPACTED FILL FOR CAPILLARY BREAK BELOW ALL SLABS ON GRADE. A MINIMUM OF 6 MIL. PROTECTIVE MOISTURE BARRIER IS ALSO TO BE INSTALLED BELOW ALL SLABS ON GRADE. LAP VAPOR BARRIER ENDS AND EDGES A MINIMUM OF 6".	n.	UNLESS NOTED OTHERWISE, FAST (STAGGERED).
NDATIONS THE OWNER MUST COMMISSION A GEOTECHNICAL EXPLORATION OF THE SITE BY A PROPERLY INSURED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ALABAMA AND FORWARD THE GEOTECHNICAL	10. a.	PLYWOOD PLYWOOD PANELS SHALL CONFOR CONSTRUCTION AND INDUSTRIAL PERFORMANCE STANDARDS.
ENGINEER'S REPORT TO THE STRUCTURAL ENGINEER OF RECORD. THE GEOTECHNICAL ENGINEER'S REPORT MUST CONFORM TO CHAPTER 18 OF THE BUILDING CODE VERSION OUTLINED IN GENERAL NOTE SECTION 1 THIS SHEET. THE DESIGN OF FOUNDATIONS IS BASED ON THE FOLLOWING ASSUMED SOIL CRITERIA:	b. c.	STORE STRUCTURAL SHEATHING I UNLESS OTHERWISE NOTED, PANE & SPAN RATINGS MEETING THE FC
 ALLOWABLE SOIL BEARING PRESSURE: 2,000 PSF SOIL DENSITY: 110 PCF REDESIGN OF FOUNDATIONS MY BE REQUIRED IF THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ARE 		7/16" = .437" THICKNESS 15/32" = .469" THICKNESS 19/32" = .594" THICKNESS
DIFFERENT THAN THE VALUES LISTED ABOVE. THE FOLLOWING CONDITIONS COULD ALSO RESULT IN REDESIGN OF FOUNDATIONS: PRESENCE OF EXPANSIVE SOILS, HIGH WATER TABLE, POTENTIAL FOR LARGE SETTLEMENTS, OR ANY OTHER RECOMMENDATIONS STATED IN THE GEOTECHNICAL ENGINEER'S REPORT. CENTER ALL FOOTINGS AND PIERS UNDER COLUMNS ABOVE UNLESS SPECIFICALLY DIMENSIONED OTHERWISE.	d.	23/32" = .719" THICKNESS ANY SUB-FLOORING AND ROOF SH THE SUPPORTS. STAGGER ENDS C ADJACENT PANEL).
PLACE ALL COLUMN FOOTINGS AND WALL FOOTINGS MONOLITHICALLY WITH ADJACENT FOOTINGS AT THE SAME ELEVATION. THE GEOTECHNICAL ENGINEER MUST VERIFY THE CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS, AND	e. f.	ALL NAILS SHALL BE RING SHANK ROOF SHEATHING SHALL BE BLOC BLOCKING SHALL BE USED IN ROO
BACKFILLS PRIOR TO THE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, ETC. COORDINATE TOP OF FOOTING ELEVATIONS WITH THE REQUIREMENTS OF OTHER TRADES (PLUMBING, ELECTRICAL, CIVIL SITE GRADING, ETC.). ALL FOOTINGS MUST BEAR ON ORIGINAL UNDISTURBED SOIL WHERE POSSIBLE.	g. h.	PLYWOOD WALL SHEATHING SHAL TO THE UPPER MOST 2x MEMBER WALL SHEATHING MAY BE INSTAL BLOCKED WITH 2x FRAMING LAID
REMOVE ALL ORGANIC SOILS AND REPLACE WITH CLEAN STRUCTURAL FILL AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. PLACE FILL SOILS IN 6" MAXIMUM (LOOSE) LIFTS AT MOISTURE CONTENTS AS DESCRIBED IN THE GEOTECHNICAL REPORT. COMPACT ALL FILL WITHIN 10'-0" OF THE BUILDING LIMIT TO 95%	i. 11.	A MINIMUM GAP OF 1/8" @ ALL SH
STANDARD PROCTOR. FIELD DENSITY TESTS MUST BE MADE AS DESCRIBED IN THE GEOTECHNICAL REPORT TO VERIFY ADEQUATE COMPACTION AND DESIGN BEARING PRESSURE. SIDES OF FOUNDATIONS MUST BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING. FOUNDATIONS PLACED	a. b.	SUBMIT SHOP DRAWINGS FOR AL DRAWINGS ARE COMPLETED AND FRAMING MEMBERS DESIGNATED
AGAINST THE EARTH REQUIRE THE FOLLOWING PRECAUTIONS: SLOPE SIDES OF EXCAVATIONS AS APPROVED BY THE GEOTECHNICAL ENGINEER AND CLEAN UP SLOUGHING BEFORE AND DURING CONCRETE PLACEMENT. WHERE FOOTING STEPS ARE NECESSARY, SLOPE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.	17	WEYERHAUSER CORPORATION (M ALLOWABLE BENDING STRESS (F _B PLATE CONNECTED WOOD TRUSSE
ICTURAL STEEL PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLOWING STANDARDS: • AISC MANUAL OF STEEL CONSTRUCTION, 14 TH EDITION	12. a.	PROVIDE WOOD TRUSSES CONNE ACCORDANCE WITH THE FOLLOW • ANSI/TPI 1-2014, NATION
 AISC 360-10, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AISC 303-10, CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL BUILDINGS AND BRIDGES AISC 326-09, DETAILING FOR STEEL CONSTRUCTION, 2ND EDITION 	b. c.	CONSTRUCTION THE MAXIMUM ALLOWABLE DURA TRUSS DESIGN LOADS:
UNLESS NOTED OTHERWISE, PROVIDE STEEL SHAPES MADE OF MATERIAL CONFORMING TO THE FOLLOWING STANDARDS: • WIDE FLANGE SHAPES: ASTM A992, GRADE 50 • ANGLES, PLATES, AND CHANNELS: ASTM A36		ROOF TRUSSES: TOP CHORD LL TOP CHORD DL MECHANICAL LL
 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B (F_Y=46 KSI) HEADED STUDS: ASTM A29, TYPE B, (F_Y=60 KSI) DEFORMED BAR ANCHORS (DBA): ASTM A496 	d.	BOTTOM CHORD DL = TOTAL LOAD = DESIGN TRUSSES TO ACCOMMOD
• ANCHOR RODS ASTM F1554, GRADE 36. UNLESS NOTED OTHERWISE, MAKE ALL BOLTED SHEAR CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS. ASSEMBLE AND INSPECT BOLTED CONNECTIONS IN ACCORDANCE WITH AISC RCSC-2009, "SPECIFICATION FOR		CRITERIA: • TOTAL LOAD DEFLECTION • LIVE LOAD DEFLECTION
STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS". MAKE ALL WELDED CONNECTIONS IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.1-10 "STRUCTURAL WELDING CODE" BY AMERICAN WELDING SOCIETY, USING TYPE E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM UNLESS OTHERWISE NOTED OR DETAILED. USE ONLY CERTIFIED WELDERS. PROOF OF WELDER CERTIFICATION	e.	DESIGN TRUSSES FOR WIND AND THE PLANE OF THE TRUSS (CALCL OUTLINED IN STRUCTURAL GENER DRAWINGS.
UNLESS OTHERWISE NOTED OR DETAILED. USE ONLY CERTIFIED WELDERS. PROOF OF WELDER CERTIFICATION MUST BE MAINTAINED AT THE JOB SITE AND AVAILABLE DURING INSPECTIONS. UNLESS SPECIFICALLY DETAILED ON THE CONTRACT DOCUMENTS, PROVIDE THE FOLLOWING BEAM CONNECTIONS: • WHERE BEAM REACTIONS ARE SHOWN, PROVIDE CONNECTIONS TO DEVELOP THE REACTION SHOWN.	f. g.	DRAWINGS. HANDLE, INSTALL, AND BRACE PL SAFETY INFORMATION (BCSI) SUM PROVIDE 'X' OR 'V' BRIDGING AT 8
• WHERE BEAM REACTIONS ARE NOT SHOWN, PROVIDE CONNECTIONS TO DEVELOP ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE MAXIMUM TOTAL UNIFORM LOAD TABLES, IN PART 3 OF THE AISC MANUAL.	y. h.	BRIDGING MATERIAL ON ROOF TH COORDINATE THE LOCATION OF F TRUSS GEOMETRY. DESIGN TRUS
• WHERE REACTIONS ARE SUBJECT TO ECCENTRICITY, THE ECCENTRICITY MUST BE ACCOUNTED FOR. SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC 326-09. PROVIDE COMPLETE WELDING INFORMATION USING AWS SYMBOLS. USE PREQUALIFIED WELDED JOINTS PER AISC AND AWS D1.1 "STRUCTURAL WELDING CODE " DO NOT BEGIN EABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE	i.	INDICATED ABOVE. THE DESIGN OF CONNECTIONS BE PRELIMINARY DESIGN. CONNECTO
WELDING CODE." DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. DO NOT USE GAS CUTTING TORCHES TO CORRECT FABRICATION ERRORS IN STRUCTURAL STEEL FRAMING. PROVIDE TEMPORARY BRACING FOR STRUCTURAL STEEL FRAMING UNTIL ALL PERMANENT BRACING, MOMENT	j.	SPACING WILL BE BASED ON FINA MANUFACTURER SPECIFIES A STR DOCUMENTS. PROVIDE DOUBLE TOP CHORDS FO
CONNECTIONS, AND FLOOR/ROOF DECKS (DIAPHRAGMS) ARE COMPLETELY INSTALLED. PAINT STRUCTURAL STEEL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DO NOT PAINT STEEL SURFACES TO BE ENCASED IN CONCRETE, SURFACES TO RECEIVE FIREPROOFING, CONNECTIONS DESIGNATED AS FRICTION	j. k. I.	WHERE TRUSS MEMBER SIZES SPE REQUIRED BY ANALYSIS, PROVIDE SUBMIT SHOP DRAWINGS FOR EA
TYPE, SURFACES TO BE WELDED, OR SURFACES RECEIVING WELDED STUDS OR DBA'S IN THE FIELD. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE AN ALLOWANCE OF STEEL FRAMING TO BE PLACED DURING PROGRESS OF WORK AS MAY BE DIRECTED BY THE STRUCTURAL ENGINEER OF RECORD DURING CONSTRUCTION		PROFESSIONAL ENGINEER REGIST LOCATION OF EACH TRUSS AND A ON THE STRUCTURAL CONTRACT
IN ADDITION TO ALL STEEL FRAMING INDICATED ON THE CONTRACT DOCUMENTS.		COMPLETED AND REVIEWED BY T
STEEL STAIR DESIGNER IS RESPONSIBLE FOR THE LATERAL STABILITY OF ALL STEEL STAIRS. ANY ATTACHMENT		

LL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY EST EDITION PUBLISHED BY AMERICAN CONCRETE INSTITUTE, DETROIT,	13. ME a.	CHANICAL AN MECHANICAL CURRENT APP	ANCHORS	S SHALL					REPORT	INDICA	TING CO	NFORMAN	CE WITH
NRY UNITS SHALL CONFORM TO ASTM C90, TYPE 2. THE MINIMUM PRISM THE ASSEMBLIES (f'm) SHALL BE 1,900 PSI.	b.	STYLE ANCHO COMPLETE W	RS SHALL	l be to Jired N	RQUE-CO	ONTRO D WASH	lled, W.	ITH IMPA ROVIDE A	ACT SEC ANCHOR	FION TO 5 WITH L	PREVEN ENGTH I	T THREAD	gs. Expansion Damage Ation Markings
ELOW GRADE, AND VERTICALLY REINFORCED CELLS SOLIDLY WITH GROUT. WEIGHT WITH MINIMUM COMPRESSION STRENGTH OF 2,000 PSI IN 28 DAYS AND 140 PCF	C.	INTEGRAL WA	ANCHOR	RS SHAL OUBLE I	l be on Lead th	E PIECE READ, (e carbo Chamfei	N STEEL RED TIP,	SCREW RATCHE	ANCHOR	WITH F	INISHED H DERSIDE O	ex head with F head. Provide N drawings.
8" - 11" JM HEIGHT OF EACH LIFT ALLOWED IS 4'-0" UNLESS CLEAN-OUT OPENING IS LS TO BE FILLED. LOCATE CLEAN-OUT OPENINGS IN AREAS NOT EXPOSED TO VIEW.	d.	UNLESS OTHE	RWISE N ED GALVA	OTED, I ANIZED	PROVIDE ACCORE	E CARBO DING TO	ON STEE	L ANCHO A153. PE	RS, ZINO RMANEN	C PLATED TLY EXPO) IN ACC DSED AN	ORDANCE	WITH ASTM B633 ALL BE STAINLES
IN ACCORDANCE WITH ASTM A615 GRADE 60. SHOP FABRICATE REINFORCING E HOOKED OR BENT. PROVIDE A MINIMUM LAP OF 48x BAR DIAMETERS AT ALL AP SPLICE TABLE THIS SHEET UNLESS NOTED OTHERWISE.	e.	STRUCTURES	and ass Mechani	EMBLIE	S.			-					AS NOTED ON
MORTAR IS STRICTLY PROHIBITED. MORTAR SHALL CONFORM TO ASTM C270 TYPE IE PROPORTION SPECIFICATIONS OF ASTM C270 AND BE MADE WITH PORTLAND AINED). MORTAR SHALL BE AS FOLLOWS:		•	HILTI HILTI	KWIK B		EXPANS	SION AN	CHORS P	ER ICC E	iors Pef SR-1917 R-2302		R-3027	
ASTM C150 TYPE 1 ASTM C207 TYPE S ASTM C144		• •	POWE SIMPS	RS POW	EN HD S	D+SD1 CREW A	EXPANS: ANCHOR	ion anc Per icc	Hor Per Esr-27	R ICC ESF .3	8-2818		
CLEAN AND POTABLE ONS AND TESTING SHALL BE IN ACCORDANCE WITH ASTMC476-10 UNLESS NOTED ALL BE PROVIDED FOR COMPRESSION STRENGTH AND SLUMP FROM AN	f.		BEDMENT 1/2" D	FOR CO	ER – 3 3/	e anch 8″ emb	ORS SHA	ALL BE A			AS NOTE	D ON THE	DRAWINGS:
ATORY OF EITHER A TRIAL BATCH OR GROUT PREVIOUSLY PLACED AND TESTED L. ALL TESTING SHALL MEET THE FOLLOWING REQUIREMENTS: . BE IN ACCORDANCE WITH ASTM C1019-09. GROUT SHALL BE TESTED ONCE FOR EET OF MASONRY BUT NOT LESS THAN ONCE EACH DAY GROUT IS PLACED.	g.	FOR ANCHOR	3/4" D	IAMETE	ER – 4 1/ ER – 5″ E ROUTED	MBEDM	1ENT		THE FOI	LOWING	ANCHO	RS, OR AS	NOTED ON THE
ANT TICKETS. EACH TRUCK FROM WHICH STRENGTH TEST SAMPLES ARE TAKEN FOR GROUT		HILTIHILTI	KWIK BC KWIK BC	OLT 3 EX	KPANSIO	N ANCI	HORS PE	R ICC ES	R-1385	;			
JTION COUNT, AND TIME OF MIXING. AT THE DISCHARGE END OF THE PIPELINE. ALL OTHER TEST SAMPLES SHALL BE DISCHARGE, UNLESS NOTED OTHERWISE.		SIMPSSIMPS	Ers Powe Son Tite Son Wed	in HD S Ge all	CREW AI	NCHOR G BOLT	PER ICC 2 PER IC	ESR-105 C ESR-1	56 396 (MA	Sonry)			
OMPTLY REPORT ALL TEST RESULTS. E BY ARCHITECT / ENGINEER, REJECT AND DO NOT USE SITE-DELIVERED GROUT INTS AT THE SITE.	h.	THE OUTSIDE	NCHORS FACE OF	Not Al Mason	LOWED	WITHI	N 1 1/4"						ED ON THE EASURED FROM
LL WALLS SHALL BE LAID IN RUNNING BOND. I STRUCTURAL PLANS, STRUCTURAL MASONRY WALLS SHALL RECEIVE ONE (1) OUTED CELLS AT 32" ON CENTER MAXIMUM ALONG LENGTH OF WALL. VERTICAL DOTING DOWEL BAR SPLICE TO TOP OF WALL AND SHALL PENETRATE INTO	i.	• 5/8″ [DIAMETER DIAMETER DIAMETER	R – 4 3/ R – 5 1/	8" EMBE 4" EMBE	dment Dment			REDDED				
ULLY GROUTED CELL SHALL BE PLACED AT WALL CORNERS, AT THE END OF WALLS, VINDOW JAMBS, AND ON EACH SIDE OF MASONRY CONTROL JOINTS. VERTICAL		ANCHORS. EX EMBEDDED IT ENCOUNTERE	(ERCISE (EMS. NC	CARE IN DTIFY TI	I CORINO HE ENGI	G OR D	RILLING	TO AVO	(D DAMA	GING EX	ISTING F	REINFORCI	NG OR
NG DOWEL BARS SPLICE TO TOP OF WALL AND SHALL PENETRATE INTO BOTTOM OF OR PARAPET, 4" MINIMUM. NSTRUCTED IN ACCORDANCE WITH THE 'LOW LIFT' OR 'HIGH LIFT' METHOD	j.	SUBSTITUTIO ENGINEER OF PER THE MAN	RECORD	PRIOR	TO USE	SUBST							STRUCTURAL
LIFT' MASONRY CONSTRUCTION IS LIMITED TO SPECIALLY QUALIFIED CONTRACTOR IMUM REQUIREMENTS: ION OF AT LEAST 3 PREVIOUS PROJECTS THAT UTILIZED 'HIGH LIFT' MASONRY		DESIGN LOA LIVE LOADS: ROOF					20	PSF					
JBMIT A DETAILED 'HIGH LIFT' WALL CONSTRUCTION FOR APPROVAL INCLUDING OF ALL PERSONNEL WHO HAVE SUCCESSFULLY BEEN TRAINED IN 'HIGH LIFT' ION.		FIXED GENE) SEATIN RAL USE/ E PLATFC	ASSEME	BLY FLOO		80 50 100	PSF PSF					
4 FOUNDATIONS TO MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS GREE HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING. AT EACH BEARING ELEVATION. INTERMEDIATE BOND BEAMS SHALL BE PROVIDED	b.	DEAD LOADS: ROOF				OR:	20 40	PSF PSF					
S OR 4'-0" ON CENTER MAXIMUM. L REINFORCEMENT AT CONTROL JOINTS, EXCEPT FOR HORIZONTAL BEARING ELEVATION BOND BEAMS.	C.	GENE WIND DESIGN		ASSEM	BLY FLOO		40 40	PSF	110	MDU			
IENT OF THE SAME SIZE AND SPACING AS CONTINUOUS REINFORCEMENT AT BOND INFORCING AS SPECIFIED IN THE LAP SPLICE SCHEDULE THIS SHEET. HOOK DRCED JAMB WHERE BOND BEAMS ARE INTERRUPTED BY OPENINGS. IENT, PROVIDE TWO (2) W1.7 WIRE REINFORCEMENT AT 16" ON CENTER OR		1. 2. 3.	RISK C WIND	CATEGO EXPOSI):	CAT EXP	MPH EGORY II OSURE C		DOTECTE	D OPENINGS)
-0" ON CENTER. DOW OPENINGS SHALL BE REINFORCED AS NOTED ON THE PLANS. PROVIDE 8" NTINUOUS #5 BARS AT WINDOW SILLS. BOND BEAMS SILLS BELOW OPENINGS	d.	5. SEISMIC DESI	INTER COMPO	NAL PR ONENTS	ESSURE S AND CL	COEFF		URES:	±0.0	0 OPE	N BUILD	ING	D OF ENTROSY
H SIDE OPENINGS 24" MINIMUM. UNIT CONTROL JOINTS SUCH THAT SPACING BETWEEN JOINTS DOES NOT EXCEED IGHT (25' MAXIMUM). SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT		1. 2.	RISK C	CATEGO	ortance Ry: Ctral Re			ERATION	NS: S _S =	EGORY II 0.167	I		
UIREMENTS AT CONTROL JOINTS. AR AT CONCRETE MASONRY UNIT CONTROL JOINTS, OFFSET AND LAP THE VERTICAL PROVIDE A CONTROL JOINT LAYOUT FOR REVIEW PRIOR TO CONSTRUCTION.		3.	SITE C SPECT		SPONSE	COEFF	ICIENTS		SITE S _{DS}	0.078 CLASS I = 0.179)		
HALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING N CENTERLINE OF CELLS (UNLESS NOTED OTHERWISE), AT SPLICES, AND ING.		4. 5.			ign cati C force			STEM:	CAT			Forced M	ASONRY SHEAR
E TO BE USED AT ALL MASONRY WALL BACKINGS WHERE BRICK FASCADE OCCURS. 4 16" O.C. VERTICALLY & 16" O.C. HORIZONTALLY, COORDINATE ANCHOR LENGTH CTURAL DRAWINGS.		6. 7. 8.	SEISM	IC RESP	IODIFICA PONSE C SHEAR:	OEFFIC			(R= C _S =		S		
UMBER CONFORMING TO THE FOLLOWING STANDARDS:	e.	9. SNOW DESIGN	N DATA: GROUI	ND SNO	oceduri W Load	:			P _g =	5 PSF	LATERA	L FORCE P	ROCEDURE
CIFICATION (NDS), 2015 EDITION ROVIDE #2 GRADE SOUTHERN YELLOW PINE OR EQUIVALENT FOR DIMENSIONAL STUDS. UNLESS NOTED OTHERWISE, PROVIDE #3 SPF OR #3 HEM-FIR OR		2. 3. 4.	SNOW THERN	' EXPOS MAL FAC		TOR:	ACTOR:		I = Ce = Ct =	1.0 1.0			
ELLANEOUS FRAMING/BLOCKING. I CONCRETE, MASONRY, OR STEEL FRAMING SHALL BE PROTECTED OR PRESSURE TH AITC-109. CONFORM TO PART 10 OF THE NATIONAL DESIGN SPECIFICATION. BOLTS AND LAG		5. 6. 7.	FLAT F	ROOF SI	Factor: Now Lo, = Snow	AD:				1.0 3.5 PSF 3.5 PSF			
INSI/ASME STANDARD B18.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED S. DN PLANS AND DETAILS MUST BE IN ACCORDANCE WITH TABLE 2304.10.1 OF THE			REINF	ORCE	MENT		SPLI	CES (C	LASS	A, ING	CHES)		
IN STRUCTURAL GENERAL NOTE SECTION 1. DE NAILING AND END NAILING ARE ACCEPTABLE FOR BEARING TYPE CONNECTIONS. FOR ALL OTHER CONNECTIONS.		REINFOR	CEMENT					ORCEM	f	c = 3000	-	28 DAYS	
UNLESS NOTED OTHERWISE ON THE DRAWINGS OR RECOMMENDED OTHERWISE MANUFACTURER. IRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON COMPANY (OR		LOCA		#3 GR40 13	#4 25	#5		#7 54		#9 70	#10 79	#11 87	
E SIZE AND TYPE SHOWN ON THE DRAWINGS. HANGERS NOT SHOWN SHALL BE IENDED FOR THAT MEMBER BY THE MANUFACTURER. UNLESS SHOWN OTHERWISE, UMBER OF FASTENERS SHOWN IN THE LATEST SIMPSON CATALOG FOR THE		ОТН	IER	12	19	24	29	42	48	54	61	67	
AL FRAMING HARDWARE WITH A CORROSION RESISTANT METAL OR WITH A IISH. FOR METAL IN CONTACT WITH PRESSURE TREATED LUMBER PROVIDE .VANIZED FINISH.		REINFOR				LAP	SPLI	CES (C		,		28 DAYS	
ROVIDE BLOCKING OR BRIDGING 8'-0" ON CENTER MAXIMUM AND AT ALL BEARING AFTERS. ROVIDE SOLID HORIZONTAL BLOCKING 6'-0" ON CENTER MAXIMUM FOR ALL LOAD		REINFO LOCA		#3 GR40	#4	#5		FORCEM		2 E #9	#10	#11	
DOD OR STEEL SIDE PIECES) FOR ANY MEMBER CUT FOR THE INSTALLATION OF HAT THE MEMBER IS OF EQUAL STRENGTH TO THE MEMBER PRIOR TO CUTTING. CUT TO HAVE HORIZONTAL CONTACT FOR THE FULL WIDTH OF THE SUPPORTING		то ОТН		17 16	33 25	41 32		71 55	81 63	91 71	103 80	114 88	
ASTEN MULTIPLE-PLY BEAMS TOGETHER WITH 16D NAILS AT 12 INCHES ON CENTER		DE	VELOP	MEN	T LEN	GTH	OF ST	ANDA	RD HO	OKS (INCH	ES)	
ORM TO THE REQUIREMENTS OF "U.S. PRODUCT STANDARD PS-1 FOR		REI	FORCEM NFORCI	NG		E	RI			000 PSI SIZE	@ 28 D	AYS	
IAL PLYWOOD" OR AMERICAN PLYWOOD ASSOCIATION (APA) PRP-108 IG IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANELS SHALL BE APA RATED SHEATHING, EXPOSURE 1, WITH NOMINAL THICKNESS			TOP	-	0K40	#4 10	#5 12	#6 15	#7 17	#8 19	#9 22	#10 25	
EFOLLOWING MINIMUM REQUIREMENTS: SS - 24/16 SPAN RATING ESS - 32/16 SPAN RATING			REI	NFOR	CEME	NT L	AP SP	LICES	(8" C	ONCR	ETE		
ESS - 40/20 SPAN RATING ESS - 48/24 SPAN RATING SHEATHING SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO			MAS	SONR	Y UNI		1,500			SI, & Ø			
S OF ADJACENT PANELS 4'-0" (PANEL END SHALL COINCIDE WITH CENTER OF			LO	NFORC CATIO	N	#3	#4	#5	#6	CEMEN #7	#8		
OCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. 2x ROOF ZONES 2 & 3 FOR ALL EDGE SHEATHING FASTENING. HALL BE FULL HEIGHT SHEATHING THAT EXTENDS FROM THE BOTTOM SILL PLATE ER IN THE DOUBLE TOP PLATE.				ER OF (= 1 1/2	-	19 24	25 42	31 65	57 131	79 178	113 248		
ALLED HORIZONTALLY OR VERTICALLY AS LONG AS HORIZONTAL EDGES ARE FULLY ID FLAT AGAINST THE BACK SIDE OF SHEATHING FOR NAILING. SHEATHING JOINTS MUST BE MAINTAINED.			_										
ODUCTS ALL MANUFACTURED WOOD FRAMING. DO NOT BEGIN FABRICATION UNTIL SHOP					SE BR	CT7E	< 10	-0"	< 15	-0"			
ND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD. ED AS "LVL" SHALL BE LAMINATED VENEER LUMBER AS MANUFACTURED BY (MICROLLAM) OR AN ENGINEER APPROVED EQUIVELANT WITH MINIMUM (F _B) OF 2850 PSI AND A MINIMUM MODULUS OF ELASTICITY (E) OF 2000 KSI.				L4x3 1/	2x5/16 (/2x1/2 (I	LLV)	BRICK / 0'-0" - 6'-1" -		BRICK / 0'-0" - 5'-0" -	5'-0"			
ISES NECTED WITH LIGHT GAGE METAL PLATES DESIGNED AND FABRICATED IN				L6x4	x1/2 (LL'		8'-1" - 1		7'-0" -				
OWING STANDARDS: ONAL DESIGN STANDARDS FOR METAL-PLATE-CONNECTED WOOD TRUSS				LINTE	<u>:</u> DPENING EL SIZES IIREMEN	AND A	•						
RATION FACTOR FOR SHORT TERM LOADING IS 1.25.				 SPAN: L/600 	S ARE BA	ASED O S THAN	0.3".						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				EACH	SIDE OF	OPEN:	ING. PR	OVIDE					
= 70 PSF TOTAL LOAD = 120 PSF DDATE THE LOADS INDICATED ABOVE WITH THE FOLLOWING DEFLECTION													
ON L/240 N L/360 ND SEISMIC LOADS (IN ADDITION TO THE LOADS INDICATED ABOVE) ACTING IN													
CULATED PER SECTIONS 1609 AND 1613 OF THE BUILDING CODE EDITION NERAL NOTES SECTION 1) AND/OR ANY AXIAL FORCES SPECIFIED ON THE PLATE CONNECTED WOOD TRUSSES IN ACCORDANCE WITH BUILDING COMPONENT													
PLATE CONNECTED WOOD TRUSSES IN ACCORDANCE WITH BUILDING COMPONENT SUMMARY SHEETS B1, B2, AND B3. T 8'-0" ON CENTER FOR ALL FLOOR TRUSSES AND ROOF TRUSSES. PROVIDE 2X4 TRUSSES AND ON FLOOR TRUSSES.													
F ROOF MECHANICAL UNITS, ACCESS DOORS, AND DUCT RUNS WITH INDIVIDUAL USSES FOR THE WEIGHT OF MECHANICAL UNITS IN ADDITION TO THE LOADS													
BETWEEN WOOD TRUSSES AND THE SUPPORTING STRUCTURE IS BASED ON TORS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. FINAL SIZES AND NAL REACTIONS PROVIDED BY THE TRUSS MANUFACTURER. UNLESS THE TRUSS TRONGER CONNECTOR PROVIDE THE CONNECTOR INDICATED IN THE CONTRACT													
TRONGER CONNECTOR, PROVIDE THE CONNECTOR INDICATED IN THE CONTRACT FOR FLAT TRUSSES AT WELLS. SPECIFICALLY INDICATED ON PLANS, SECTIONS, OR DETAILS EXCEED THE SIZE													
DE THE LARGER MEMBER INDICATED IN THE CONTRACT DOCUMENTS. EACH TRUSS INDICATING THE DESIGN LOADS AND SPACING SEALED BY A ISTERED IN THE STATE OF ALABAMA. PROVIDE A LAYOUT PLAN INDICATING THE													
O ALL BRIDGING. THE LAYOUT PLAN MUST CONFORM TO THE LAYOUT INDICATED T DOCUMENTS. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE THE STRUCTURAL ENGINEER OF RECORD.													

XPANSION N MARKINGS HEAD WITH EAD. PROVIDE RAWINGS. H ASTM B633 BE STAINLESS

TED ON THE

on the Sured from

TALL ANCHORS

COMPONENTS & CLADDING PRESSURE SCHEDULE(NOTE 1) **ROOF OVERHANG** ROOF EXTERIOR
 EFFECTIVE WIND AREA
 ZONE 1 (NOTE 3)
 ZONE 1' (NOTE 3)
 ZONE 2r (NOTE 3)
 ZONE 3r (NOTE 3)
 ZONE 1 (NOTE 3)
 ZON **10 SF** +16.0 PSF +16.0 PSF +18.9 PSF +18.9 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +18.9 PSF -32.8 PSF -18.9 PSF -43.3 PSF -43.3 PSF -32.8 PSF -32.8 PSF -43.3 PSF -59.0 PSF -20.4 PSF 25 SF +16.0 PSF +16.0 PSF +17.7 PSF +17.7 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +17.7 PSF -30.0 PSF -24.1 PSF -39.6 PSF -39.6 PSF -32.1 PSF -32.1 PSF -38.4 PSF -50.4 PSF -19.3 PSF +16.0 PSF +16.0 PSF +16.9 PSF +16.9 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF 50 SF -27.8 PSF -21.5 PSF -36.8 PSF -36.8 PSF -31.6 PSF -31.6 PSF -31.6 PSF -34.7 PSF -43.9 PSF -18.5 PSF

+16.0 PSF +16.0 PSF +16.1 PSF +16.1 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.0 PSF +16.1 PSF

-20.6 PSF -16.0 PSF -27.6 PSF -27.6 PSF -31.1 PSF -31.1 PSF -31.0 PSF -37.4 PSF -17.6 PSF

-18.9 PSF -16.0 PSF -27.6 PSF -27.6 PSF -20.6 PSF -20.6 PSF -22.3 PSF -22.3 PSF -16.0 PSF

 500 SF
 +16.0 PSF
 +16.0 PSF

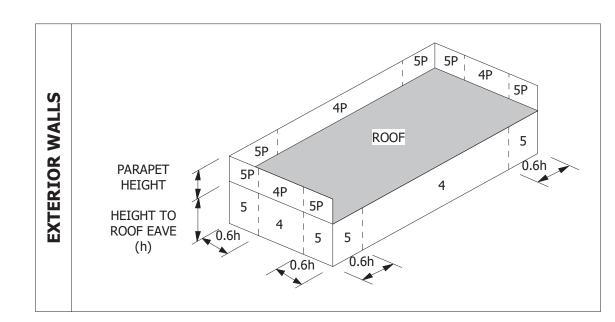
WIND PRESSURE SCHEDULE NOTES: 1. (+) AND (-) SIGNES INDICATE PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACE, RESPECTIVELY.

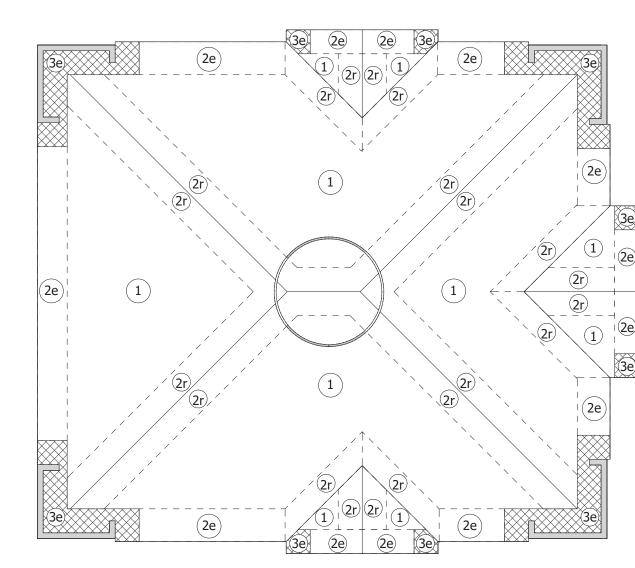
100 SF

2. PRESSURES APPLY "a" = 4'-0" FROM PROMINENT BUILDING CORNER IN EACH DIRECTION (OR FROM EDGE OF

OVERHANG/RIDGE AT ZONE 2). PRESSURES APPLY AT DISTANCE "h" = EAVE ROOF HEIGHT FROM PROMINENT BUILDING CORNER IN EACH 3. DIRECTION (OR FROM EDGE OF OVERHANG AT ZONE 2). WHERE INDICATED, MULTIPLY "h" BY FACTOR

SHOWN ON WIND ZONE DIAGRAMS THIS SHEET.
4. ALL WIND PRESSURE VALUES IN POUNDS PER SQ. FT(PSF) & ARE CONSIDERED ULTIMATE VALUES. MULTIPLY VALUES BY 0.6 FOR NOMINAL PRESSURES.



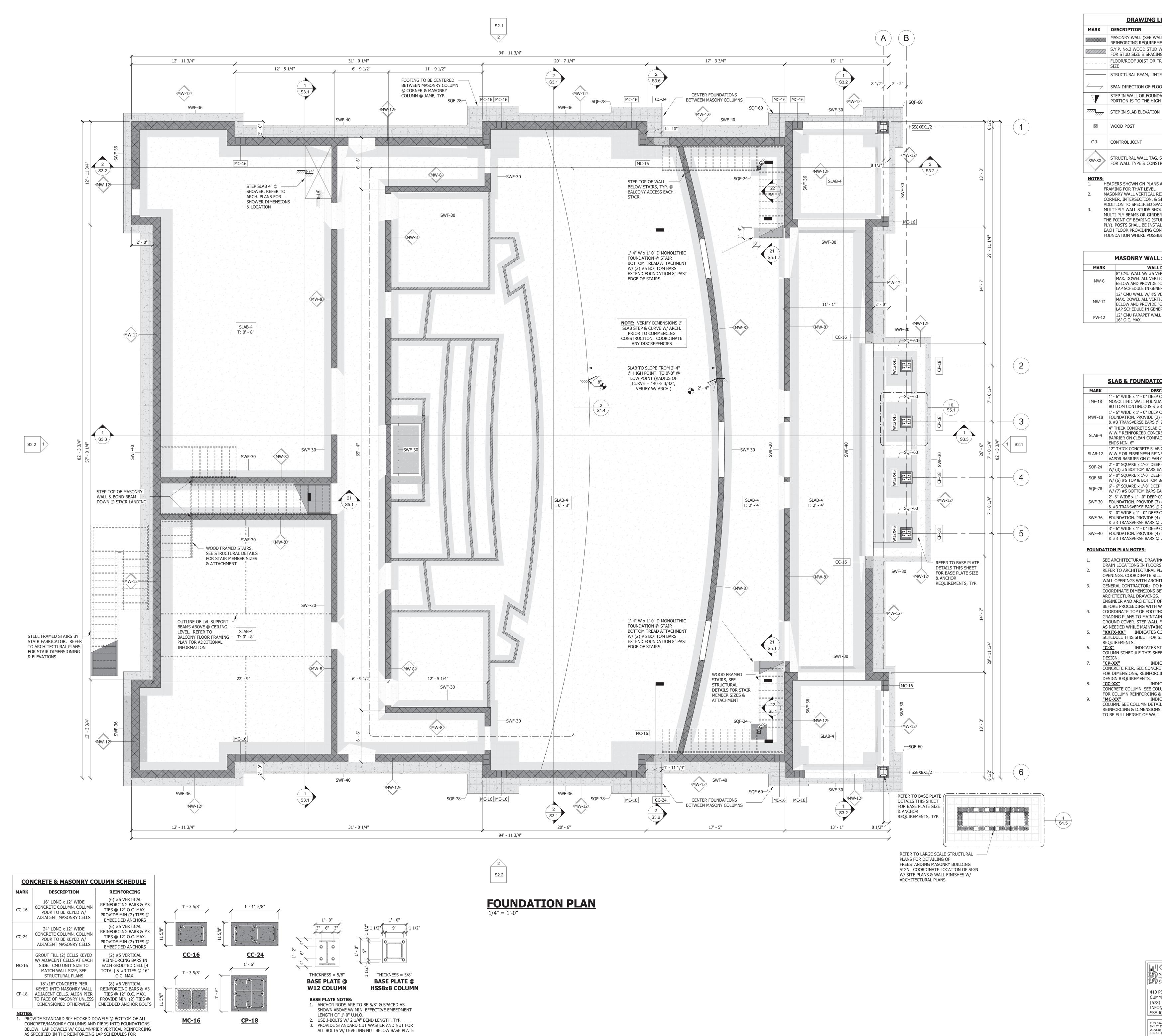


INDEX OF DRAWINGS								
SHEET NUMBER	SHEET NAME	ISSUED DATE	REV	REV DATE				
S0.1	STRUCTURAL GENERAL NOTES	10 MAY 2022						
S1.1	FOUNDATION PLAN	10 MAY 2022						
S1.2	BALCONY FLOOR FRAMING PLAN	10 MAY 2022						
S1.3	ROOF FRAMING PLAN	10 MAY 2022						
S1.4	LARGE SCALE 1st LEVEL STAGE & BALCONY LEVEL PLATFORM FRAMING PLANS	10 MAY 2022						
S1.5	LARGE SCALE MONUMENT SIGN PLANS	10 MAY 2022						
S2.1	STRUCTURAL ELEVATIONS - EAST & NORTH	10 MAY 2022						
S2.2	STRUCTURAL ELEVATIONS - WEST & SOUTH	10 MAY 2022						
S3.1	BUILDING SECTIONS	10 MAY 2022						
S3.2	BUILDING SECTIONS	10 MAY 2022						
S3.3	BUILDING SECTIONS	10 MAY 2022	1					
S3.4	STRUCTURAL WALL SECTIONS	10 MAY 2022						
S3.5	STRUCTURAL WALL SECTIONS	10 MAY 2022						
S3.6	STRUCTURAL WALL SECTIONS	10 MAY 2022						
S5.1	STRUCTURAL DETAILS	10 MAY 2022						

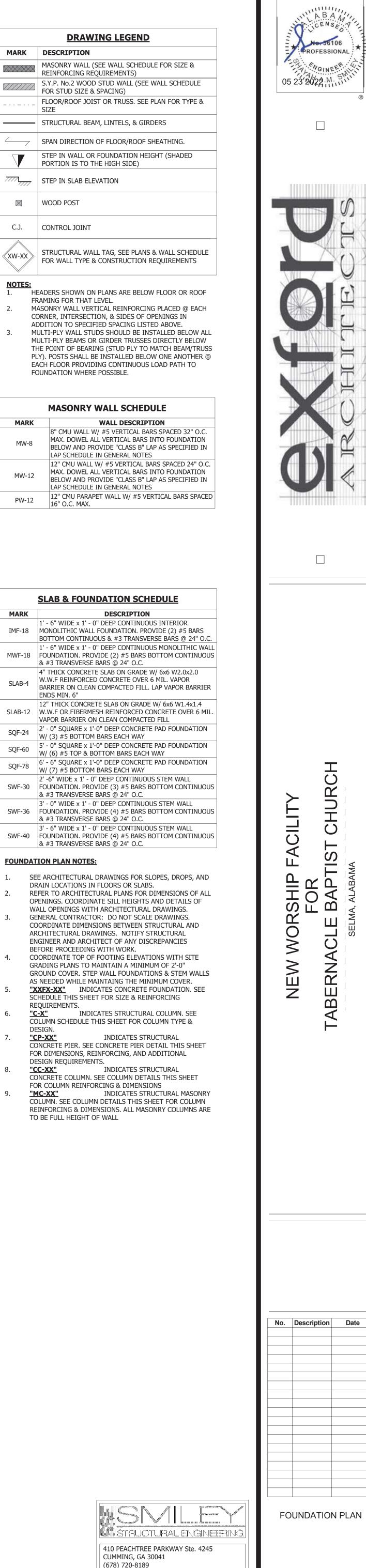
R WALLS PARAPET WALLS								
ZONE 4P	ZONE 5P (NOTE 2)							
+49.7 PSF	+63.7 PSF							
-29.4 PSF	-33.6 PSF							
+45.5 PSF	+56.2 PSF							
-27.4 PSF	-30.6 PSF							
+42.3 PSF	+50.5 PSF							
-25.9 PSF	-28.4 PSF							
+33.3 PSF	+33.3 PSF							
-24.4 PSF	-26.2 PSF							
+31.6 PSF	+31.6 PSF							
-21.0 PSF	-21.0 PSF							
	ZONE 4P +49.7 PSF -29.4 PSF +45.5 PSF -27.4 PSF +42.3 PSF +42.3 PSF -25.9 PSF +33.3 PSF -24.4 PSF +31.6 PSF							



					Y
	STRU() TURA			NO
		EE PARKW	AY Ste.	4245	
CUM	MING, GA	30041			
(678) 720-818	39			
ÌNFO) @SSEDE	SIGN.COM			
SSE	JOB#: 21	194			
SMILEY OR USE	STRUCTURAL	e property of Engineering an He written per			ED



MASONRY OR CONCRETE ON STRUCTURAL GENERAL NOTES SHEET



SIZE

CONTROL JOINT

16" O.C. MAX.

ENDS MIN. 6"

REQUIREMENTS.

INFO@SSEDESIGN.COM

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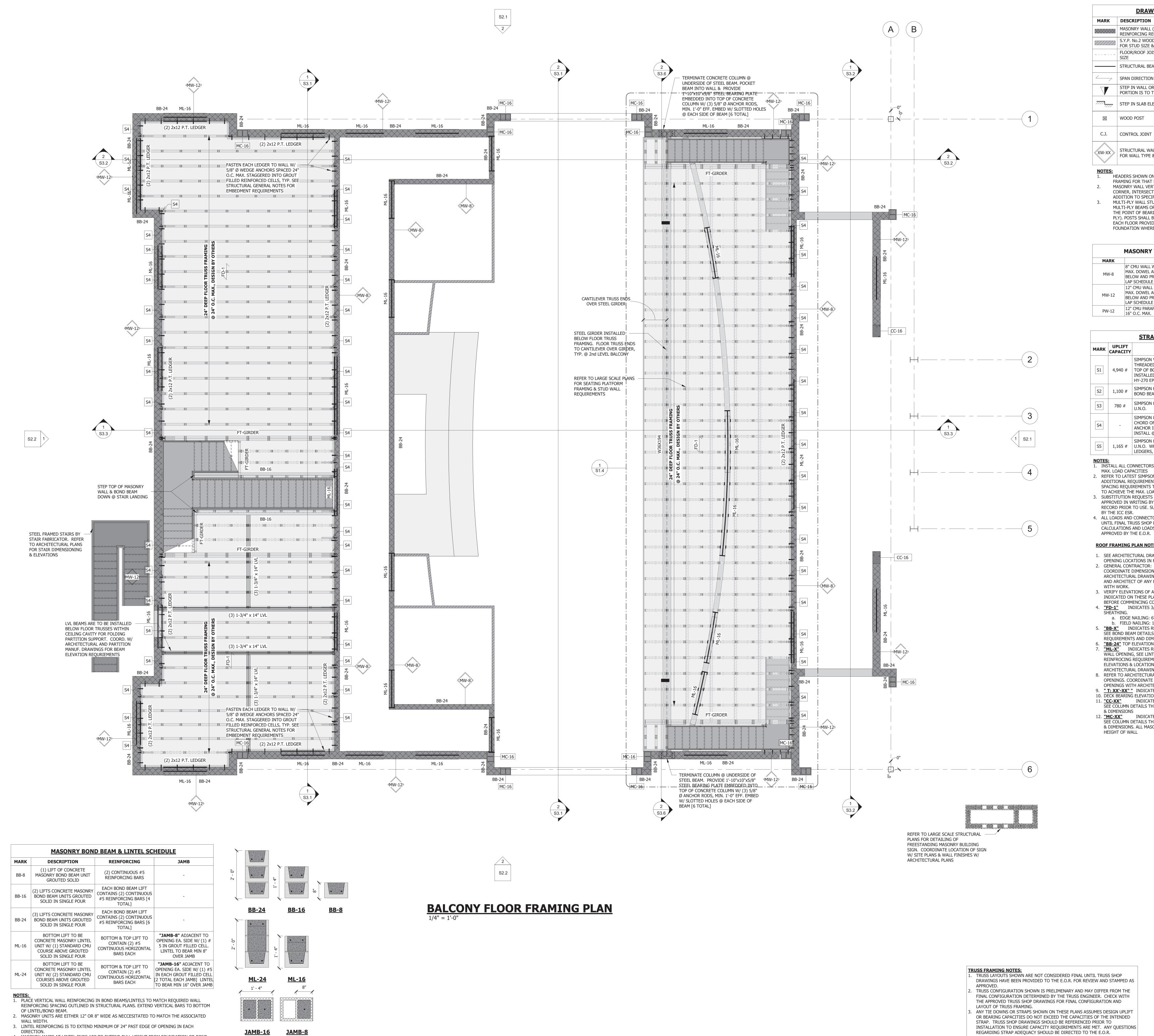
OR USED WITHOUT THE WRITTEN PERMISSION OF SMILEY STRUCTURAL ENGINEERING.

SSE JOB#: 21194

DESIGN.

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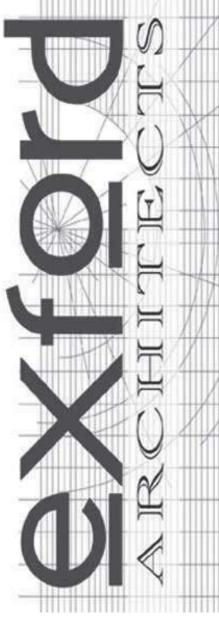
S1.1 Project number 10238.00 05/10/2022 Date

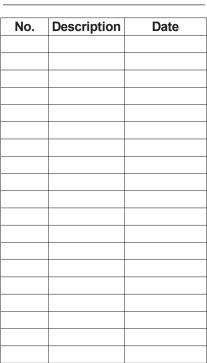


4. MASONRY JAMBS AT LINTEL ENDS ARE TO EXTEND FULL HEIGHT FROM FOUNDATION OR BOND BEAM BELOW TO TO TOP OF BOND BEAM ABOVE

- TRUSS LAYOUTS SHOWN ARE NOT CONSIDERED FINAL UNTIL TRUSS SHOP DRAWINGS HAVE BEEN PROVIDED TO THE E.O.R. FOR REVIEW AND STAMPED AS
- TRUSS CONFIGURATION SHOWN IS PRELIMENARY AND MAY DIFFER FROM THE FINAL CONFIGURATION DETERMINED BY THE TRUSS ENGINEER. CHECK WITH THE APPROVED TRUSS SHOP DRAWINGS FOR FINAL CONFIGURATION AND
- ANY TIE DOWNS OR STRAPS SHOWN ON THESE PLANS ASSUMES DESIGN UPLIFT OR BEARING CAPACITIES DO NOT EXCEED THE CAPACITIES OF THE INTENDED

DESCI	DRAWING LEGEND RIPTION	
REINFO	IRY WALL (SEE WALL SCHEDULE FOR SIZE & ORCING REQUIREMENTS)	
FOR S	No.2 WOOD STUD WALL (SEE WALL SCHEDULE TUD SIZE & SPACING) /ROOF JOIST OR TRUSS. SEE PLAN FOR TYPE &	0
SIZE	TURAL BEAM, LINTELS, & GIRDERS	
	DIRECTION OF FLOOR/ROOF SHEATHING.	
	N WALL OR FOUNDATION HEIGHT (SHADED ON IS TO THE HIGH SIDE)	
STEP I	N SLAB ELEVATION	
WOOD	POST	
CONTR	ROL JOINT	_
	TURAL WALL TAG, SEE PLANS & WALL SCHEDULE ALL TYPE & CONSTRUCTION REQUIREMENTS	
		3
MING	SHOWN ON PLANS ARE BELOW FLOOR OR ROOF FOR THAT LEVEL.	
RNER, I	WALL VERTICAL REINFORCING PLACED @ EACH INTERSECTION, & SIDES OF OPENINGS IN I TO SPECIFIED SPACING LISTED ABOVE.	
LTI-PL	/ WALL STUDS SHOULD BE INSTALLED BELOW ALL / BEAMS OR GIRDER TRUSSES DIRECTLY BELOW T OF BEARING (STUD PLY TO MATCH BEAM/TRUSS	1
H Flo	TS SHALL BE INSTALLED BELOW ONE ANOTHER @ OR PROVIDING CONTINUOUS LOAD PATH TO ION WHERE POSSIBLE.	
MA		-
MAX	WALL DESCRIPTION MU WALL W/ #5 VERTICAL BARS SPACED 32" O.C. C. DOWEL ALL VERTICAL BARS INTO FOUNDATION	
LAP	OW AND PROVIDE "CLASS B" LAP AS SPECIFIED IN SCHEDULE IN GENERAL NOTES CMU WALL W/ #5 VERTICAL BARS SPACED 24" O.C.	17
MAX BEL	K. DOWEL ALL VERTICAL BARS INTO FOUNDATION OW AND PROVIDE "CLASS B" LAP AS SPECIFIED IN SCHEDULE IN GENERAL NOTES	
12"	CMU PARAPET WALL W/ #5 VERTICAL BARS SPACED O.C. MAX.	-
.IFT	STRAP LEGEND DESCRIPTION	
CITY	SIMPSON VGT GIRDER HOLDOWN W/ 5/8" Ø	I
10 #	THREADED ROD (EFF. EMBED MIN. 12" INTO TOP OF BOND BEAM). IF ANCHOR IS POST INSTALLED, USE SIMPSON SET-XP OR HILTI	
00 #	HY-270 EPOXY ADHESIVE SIMPSON HTSM16 OR HTSM20 @ ALL TRUSS TO	
0 #	BOND BEAM BEARING CONNECTIONS U.N.O. SIMPSON H8 @ ALL TRUSS TO (2)2x12 LEDGERS	
	U.N.O. SIMPSON LTT19 TENSION TIE INSTALLED ON TOP	
-	CHORD OF FLOOR TRUSS W/ 5/8" Ø WEDGE ANCHOR INTO GROUT FILLED BOND BEAM. INSTALL @ 48" O.C. MAX. & @ EA. TRUSS GIRDER	
55 #	SIMPSON LUS28 @ FLOOR JOIST TO LEDGERS U.N.O. WHERE SKEWING OCCURS @ CURVED LEDGERS, PROVIDE SIMPSON LSSJ28	
	NNECTORS W/ MAX. HOLES FILLED TO ACHIEVE	
D CAP	ACITIES ST SIMPSON WOOD CONNECTOR CATALOG FOR	
REQUI	QUIREMENTS OF FASTENERS AND EDGE/END REMENTS TO SATISFY ALL CONDITIONS NEEDED E MAX. LOAD CAPACITIES	
d in W Prior	REQUESTS FOR ALTERNATE PRODUCTS MUST BE /RITING BY THE STRUCTURAL ENGINEER OF TO USE. SUBSTITUTIONS MUST BE EVALUATED	
	CONNECTORS ARE CONSIDERED PRELIMENARY USS SHOP DRAWINGS W/ COMPLETED	
	AND LOADS HAVE BEEN PROVIDED AND HE E.O.R.	
	PLAN NOTES: TURAL DRAWINGS FOR ALL SLOPES, DROPS &	L
g loca L con ⁻	TIONS IN ROOF. TRACTOR: DO NOT SCALE DRAWINGS.	
ECTUR/ CHITEC	DIMENSIONS BETWEEN STRUCTURAL AND AL DRAWINGS. NOTIFY STRUCTURAL ENGINEER CT OF ANY DISCREPANCIES BEFORE PROCEEDING	
ED ON	TIONS OF ALL STRUCTURAL BEAMS AND WALLS I THESE PLANS W/ ARCHITECTURAL DRAWINGS	
	ENCING CONSTRUCTION. DICATES 3/4" THICK OSB/PLYWOOD FLOOR	
FIELD	NAILING: 6" O.C. MAX. 10d NAILS NAILING: 12" O.C. MAX. 10d NAILS DICATES REINFORCED MASONRY BOND BEAM,	Í
EMENT	M DETAILS THIS SHEET FOR REINFROCING S AND DIMENSIONS. ELEVATION TO BE @ 16'-0" U.N.O. ON PLANS	I '
IN PENING	DICATES REINFORCED MASONRY LINTEL OVER 6, SEE LINTEL DETAILS THIS SHEET FOR REQUIREMENTS AND DIMENSIONS. LINTEL	
ONS &	LOCATIONS SHOULD BE COORDINATED W/ AL DRAWINGS	
GS. CO GS WIT	HITECTURAL PLANS FOR DIMENSIONS OF ALL ORDINATE SILL HEIGHTS AND DETAILS OF WALL TH ARCHITECTURAL DRAWINGS.	
ARING	INDICATES TOP OF BEAM ELEVATION. ELEVATION @ XX' - XX", U.N.O. INDICATES STRUCTURAL CONCRETE COLUMN.	
UMN D NSIONS ("	DETAILS THIS SHEET FOR COLUMN REINFORCING S INDICATES STRUCTURAL MASONRY COLUMN.	
	DETAILS THIS SHEET FOR COLUMN REINFORCING 5. ALL MASONRY COLUMNS ARE TO BE FULL ALL	
		No.
		F
P IPED AS	5 STRUCTURAL ENGINEERING	





BALCONY FLOOR FRAMING PLAN



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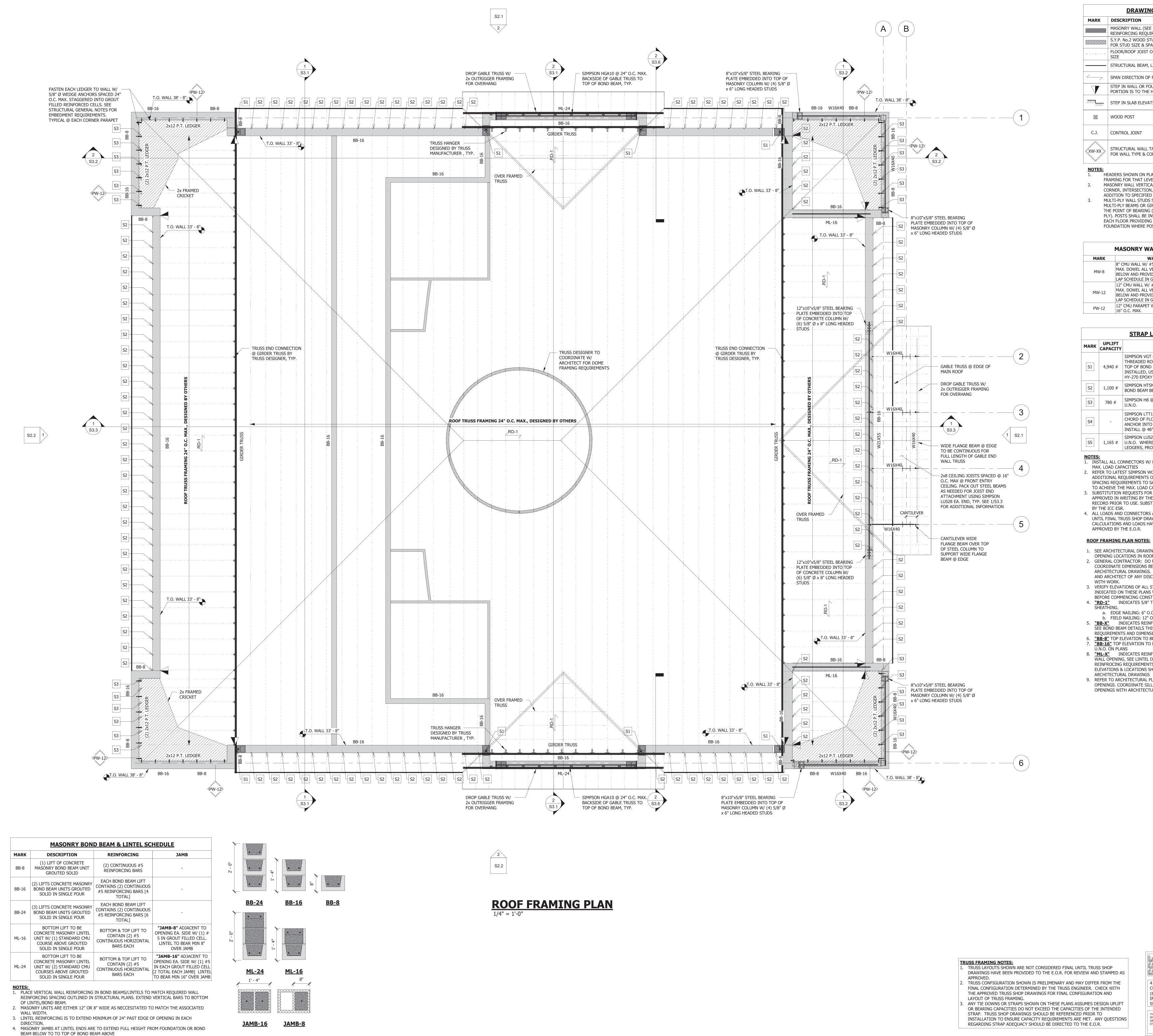
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CUMMING, GA 30041

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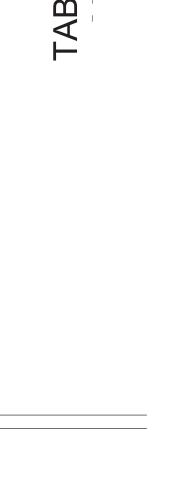
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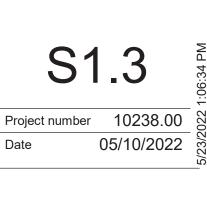
SSE JOB#: 21194





DRAWING LEGEND	No. 36106
RY WALL (SEE WALL SCHEDULE FOR SIZE & RCING REQUIREMENTS)	05 23'20'22 M. SMILL
0.2 WOOD STUD WALL (SEE WALL SCHEDULE UD SIZE & SPACING) ROOF JOIST OR TRUSS. SEE PLAN FOR TYPE &	03 23 2044 minute
URAL BEAM, LINTELS, & GIRDERS	
IRECTION OF FLOOR/ROOF SHEATHING. I WALL OR FOUNDATION HEIGHT (SHADED IN IS TO THE HIGH SIDE)	
I SLAB ELEVATION	
POST	
DL JOINT	
URAL WALL TAG, SEE PLANS & WALL SCHEDULE ALL TYPE & CONSTRUCTION REQUIREMENTS	
GHOWN ON PLANS ARE BELOW FLOOR OR ROOF OR THAT LEVEL. WALL VERTICAL REINFORCING PLACED @ EACH NTERSECTION, & SIDES OF OPENINGS IN TO SPECIFIED SPACING LISTED ABOVE. WALL STUDS SHOULD BE INSTALLED BELOW ALL BEAMS OR GIRDER TRUSSES DIRECTLY BELOW OF BEARING (STUD PLY TO MATCH BEAM/TRUSS S SHALL BE INSTALLED BELOW ONE ANOTHER @ OR PROVIDING CONTINUOUS LOAD PATH TO ON WHERE POSSIBLE.	
WALL DESCRIPTION 4U WALL W/ #5 VERTICAL BARS SPACED 32" O.C. DOWEL ALL VERTICAL BARS INTO FOUNDATION WANNE DROVIDE IICLASS BULLAD AS SPECIFIED IN	- A
W AND PROVIDE "CLASS B" LAP AS SPECIFIED IN SCHEDULE IN GENERAL NOTES CMU WALL W/ #5 VERTICAL BARS SPACED 24" O.C. DOWEL ALL VERTICAL BARS INTO FOUNDATION	
W AND PROVIDE "CLASS B" LAP AS SPECIFIED IN SCHEDULE IN GENERAL NOTES CMU PARAPET WALL W/ #5 VERTICAL BARS SPACED D.C. MAX.	
STRAP LEGEND	
DESCRIPTION SIMPSON VGT GIRDER HOLDOWN W/ 5/8" Ø THREADED ROD (EFF. EMBED MIN. 12" INTO TOP OF BOND BEAM). IF ANCHOR IS POST INSTALLED, USE SIMPSON SET-XP OR HILTI HY-270 EPOXY ADHESIVE	
SIMPSON HTSM16 OR HTSM20 @ ALL TRUSS TO BOND BEAM BEARING CONNECTIONS U.N.O.	
SIMPSON H8 @ ALL TRUSS TO (2)2x12 LEDGERS U.N.O.	
SIMPSON LTT19 TENSION TIE INSTALLED ON TOP CHORD OF FLOOR TRUSS W/ 5/8" Ø WEDGE ANCHOR INTO GROUT FILLED BOND BEAM. INSTALL @ 48" O.C. MAX. & @ EA. TRUSS GIRDER	
SIMPSON LUS28 @ FLOOR JOIST TO LEDGERS U.N.O. WHERE SKEWING OCCURS @ CURVED LEDGERS, PROVIDE SIMPSON LSSJ28	
INECTORS W/ MAX. HOLES FILLED TO ACHIEVE CITIES TSIMPSON WOOD CONNECTOR CATALOG FOR QUIREMENTS OF FASTENERS AND EDGE/END HEMENTS TO SATISFY ALL CONDITIONS NEEDED MAX. LOAD CAPACITIES EQUESTS FOR ALTERNATE PRODUCTS MUST BE RITING BY THE STRUCTURAL ENGINEER OF TO USE. SUBSTITUTIONS MUST BE EVALUATED CONNECTORS ARE CONSIDERED PRELIMENARY ISS SHOP DRAWINGS W/ COMPLETED IND LOADS HAVE BEEN PROVIDED AND HE E.O.R. WRAL DRAWINGS FOR ALL SLOPES, DROPS & TONS IN ROOF. RACTOR: DO NOT SCALE DRAWINGS. IMENSIONS BETWEEN STRUCTURAL AND L DRAWINGS. NOTIFY STRUCTURAL ENGINEER TO FANY DISCREPANCIES BEFORE PROCEEDING LORS OF ALL STRUCTURAL BEAMS AND WALLS THESE PLANS W/ ARCHITECTURAL DRAWINGS FICING CONSTRUCTION. UCATES 5/8" THICK OSB/PLYWOOD ROOF AILLING: 6" O.C. MAX. 8d RINGSHANK NAILS UCATES STRIPPORED MASONRY BOND BEAM, 4 DETAILS THIS SHEET FOR REINFROCING 4 AND DIMENSIONS. EVATION TO BE @ 38'-8" U.N.O. ON PLANS LEVATION TO BE @ TRUSS BEARING 33'-8" S UCATES REINFORCED MASONRY LINTEL OVER SELINTEL DETAILS THIS SHEET FOR REQUIREMENTS AND DIMENSIONS. LINTEL LOCATIONS SHOULD BE COORDINATED W/ L DRAWINGS ITECTURAL PLANS FOR DIMENSIONS OF ALL WAITION TO BE @ TRUSS BEARING 33'-8" S UCATES REINFORCED MASONRY LINTEL OVER SED LINTEL DETAILS THIS SHEET FOR REQUIREMENTS AND DIMENSIONS. LINTEL LOCATIONS SHOULD BE COORDINATED W/ L DRAWINGS ITECTURAL PLANS FOR DIMENSIONS OF ALL WAITION TO BE @ TRUSS BEARING 33'-8" S	NEW WORSHIP FACILITY FOR TABERNACLE BAPTIST CHURCH SELMA, ALABAMA
	No. Description Date I I I I I <td< td=""></td<>



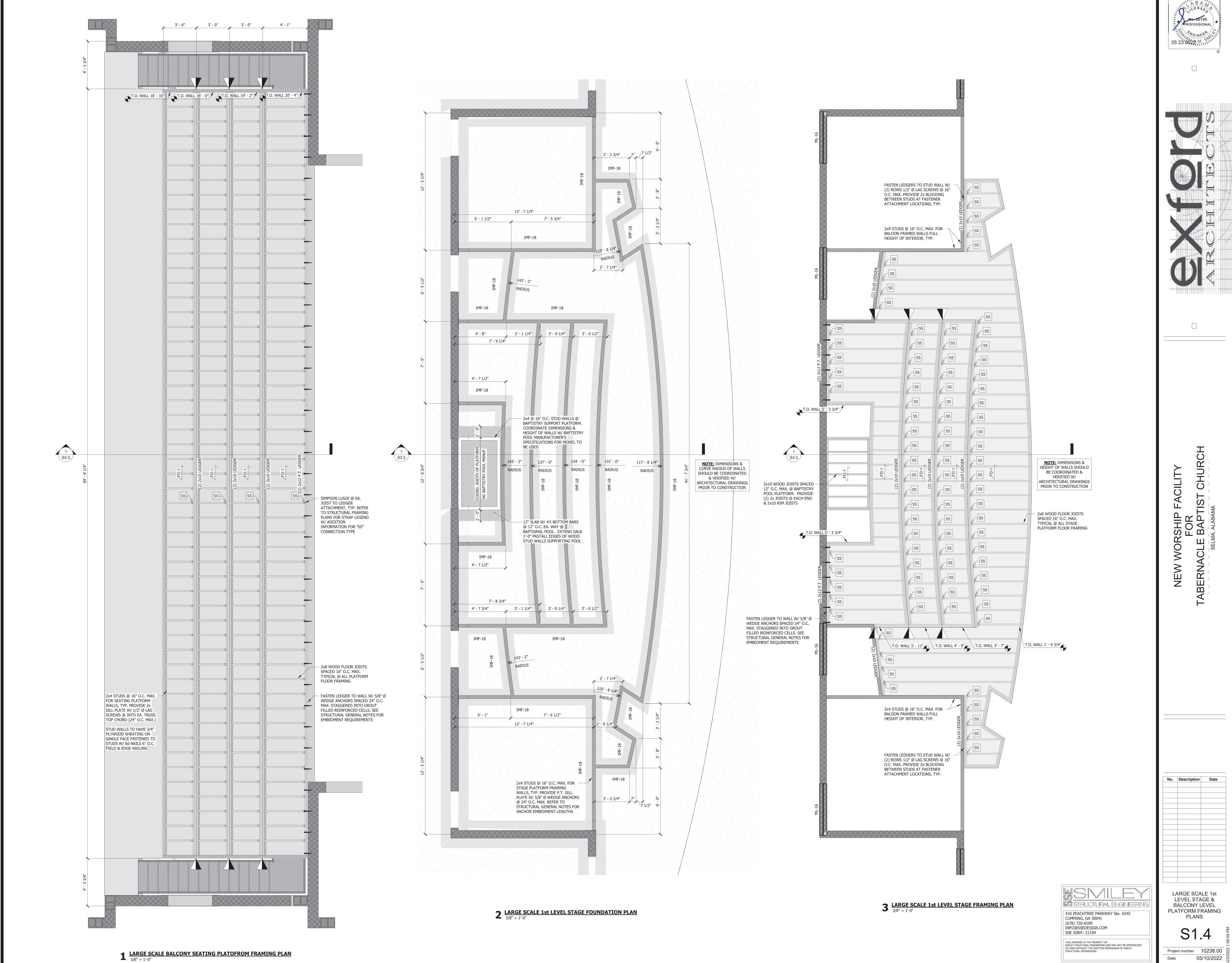


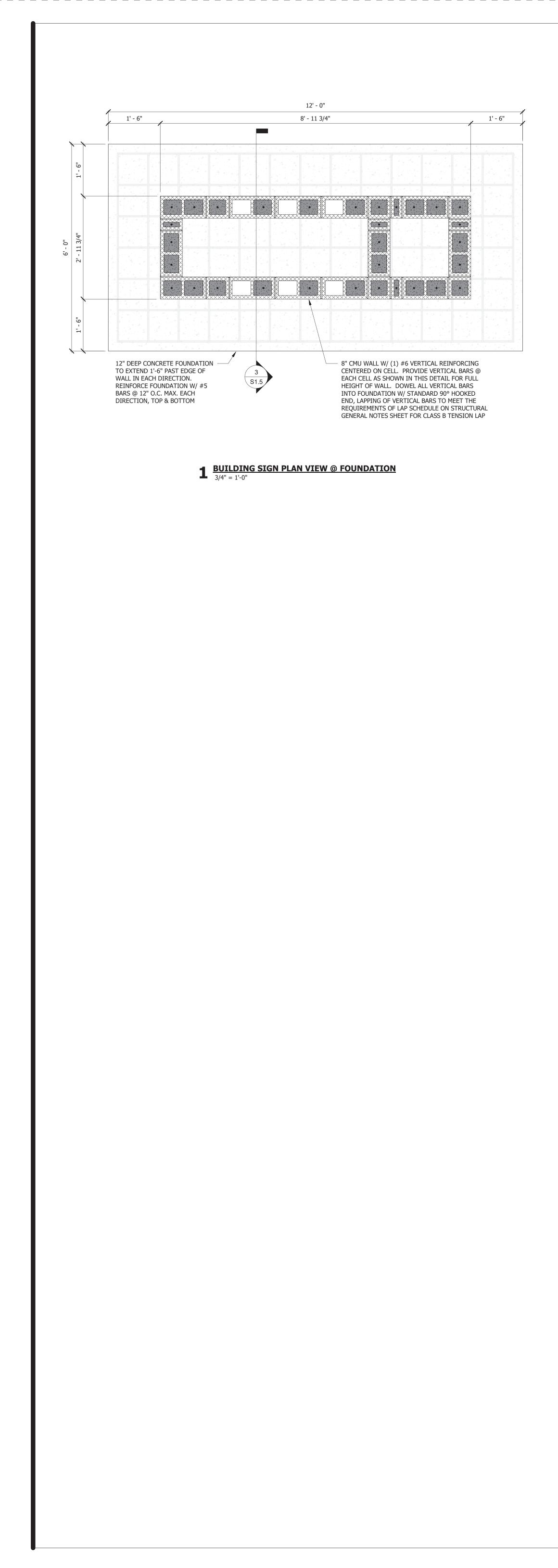
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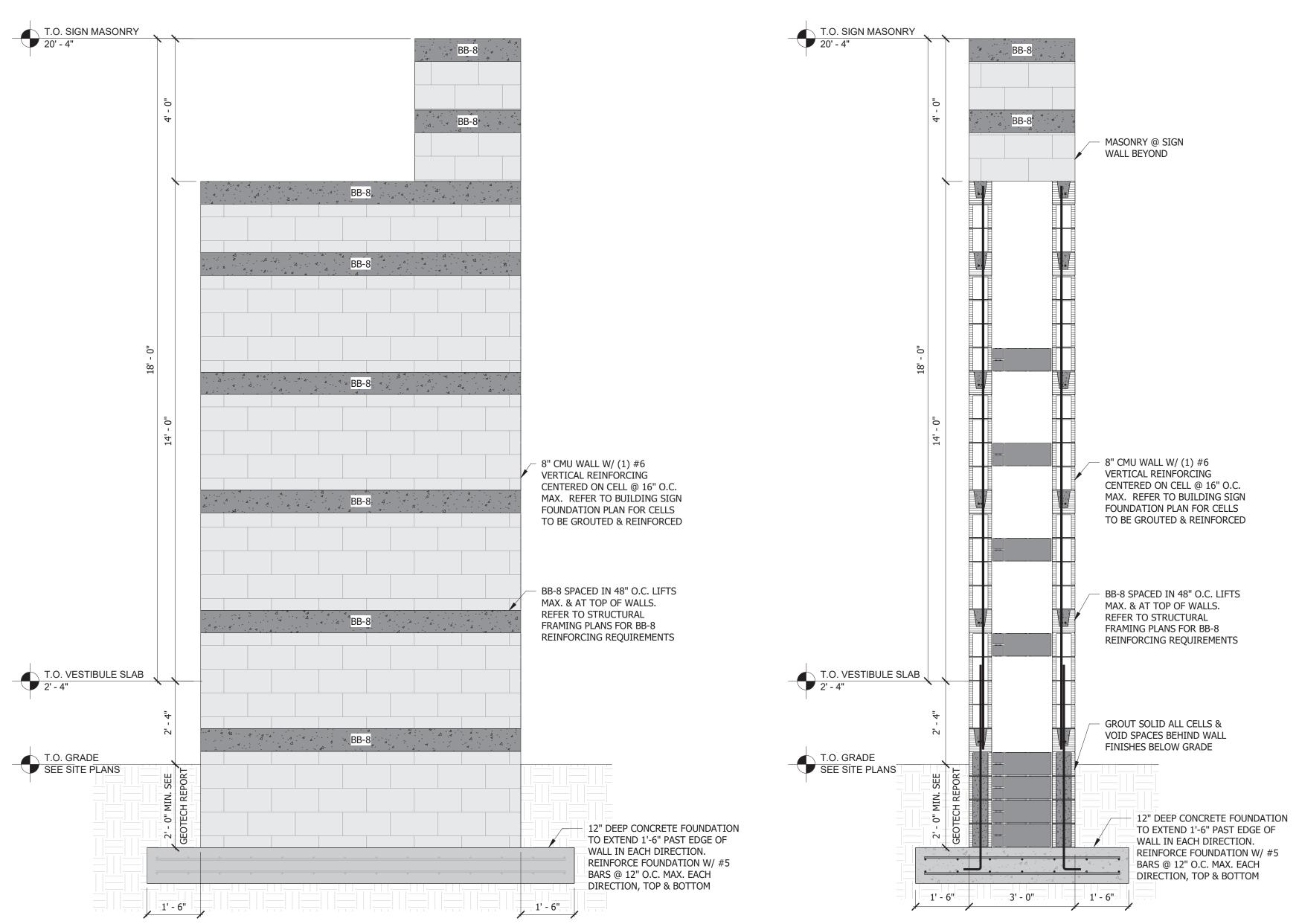
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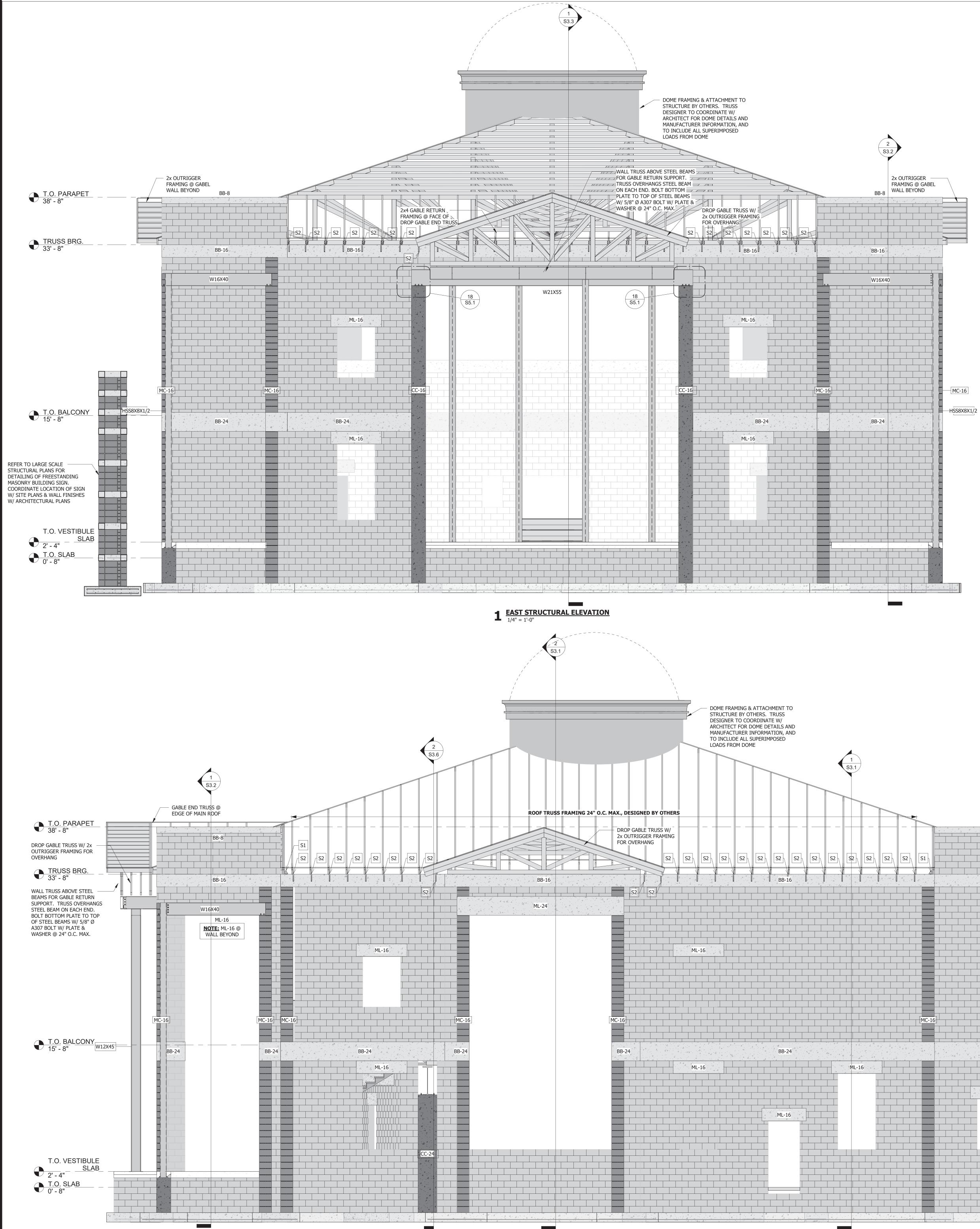


2 **BUILDING SIGN ELEVATION** 1/2" = 1'-0"

BUILDING SIGN SECTION $\frac{1}{2"} = 1' - 0"$



STRUCTURAL ENGINEERING
410 PEACHTREE PARKWAY Ste. 4245 CUMMING, GA 30041 (678) 720-8189 INFO@SSEDESIGN.COM SSE JOB#: 21194
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		TO INCLUDE	ALL SUPERIMPOSED	
$\begin{pmatrix} 2\\ S3.6 \end{pmatrix}$		LOADS FROM		
00.0				
			\$3.1	
	ROOF TRUSS FRAMING 24" O.C. MAX., DESIGNED BY OTHERS			
	DROP GABLE TRUSS W/ 2x OUTRIGGER FRAMING			
	FOR OVERHANG			
S2 / S2	S2 S2	2 \ S2 \ S2 \		
32 32				
			BB-16 BB-16	
	BB-16			
S2				
	ML-24 ^m			
		ML-16		
	MC-16			
	BB-24 BB-24	2- 4- 4 4 4	BB-24 da	
		ML-16	ML-16	
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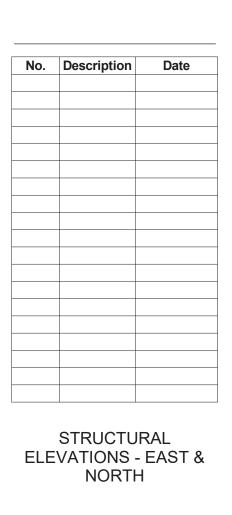
 $2 \frac{\text{NORTH STRUCTURAL ELEVATION}}{1/4" = 1'-0"}$

NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN. CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.









S2.1

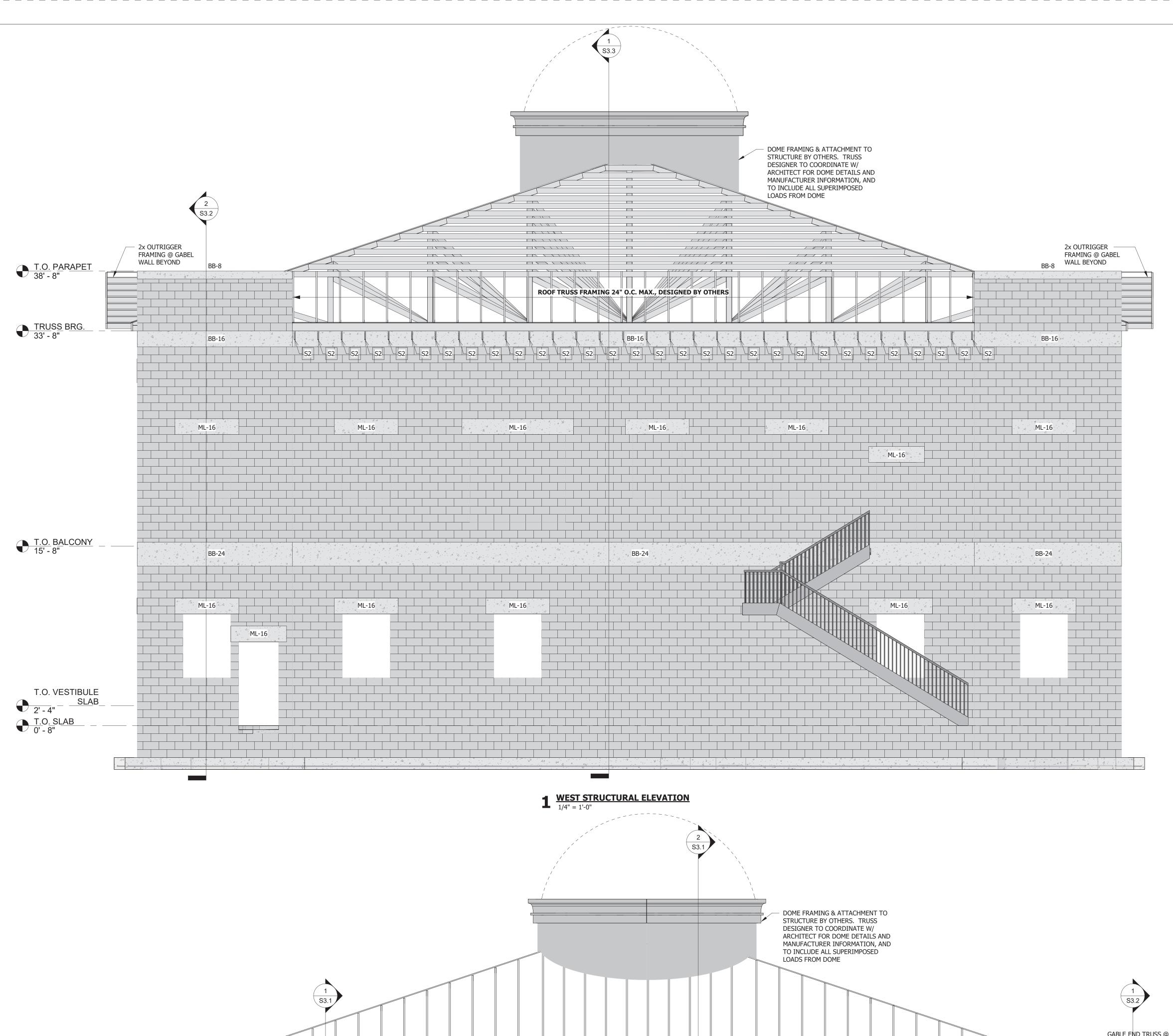
Project number 10238.00

Date

05/10/2022

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8) 720-8 O@SSED	СОМ			
JOB#: 2				

		1 53.1
<u>T.O. PARAPET</u> 38' - 8"	BB-8	
TRUSS BRG 33' - 8"		
		ML-16
	ML-16	
Ī	MC-16	
T.O. BALCONY		
	BB-24	BB-24
		ML-16
T.O. VESTIBULE		
● <u>T.O.</u> SLAB ● ● ● ● ● ● 0' - 8"		
_		



ROOF TRUSS FRAMING 24" O.C. MAX., DESIGNED BY OTHERS

S2 | _ _ _ S2 | _ _ _ S2 | _ _

ML-16 _ _ MC-16 BB-24₄ ML-16

BB-16 ML-24

- DROP GABLE TRUSS W/

FOR OVERHANG

_

BB-24

CC-2/

MC-16

2x OUTRIGGER FRAMING

|| S2 h || S2 h

BB-16

ML-16

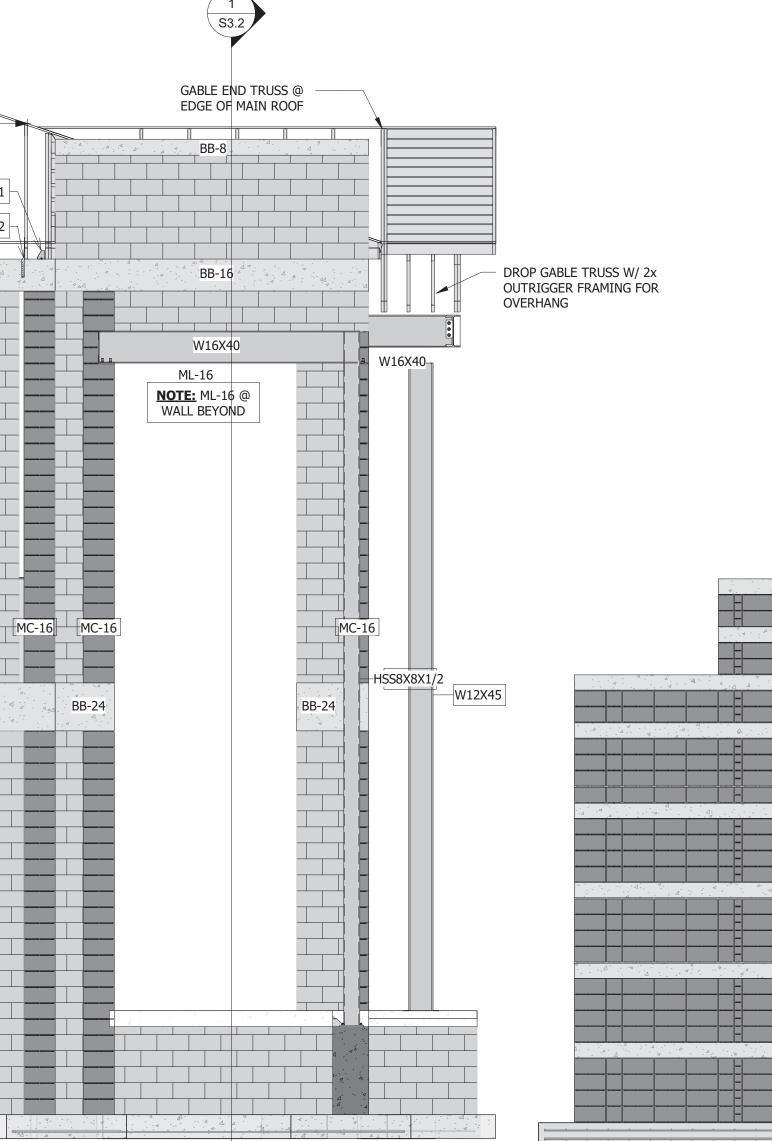
A ... A . A . A . A

BB-24

ML-16

And

2 SOUTH STRUCTURAL ELEVATION 1/4" = 1'-0"



REFER TO LARGE SCALE STRUCTURAL PLANS FOR DETAILING OF FREESTANDING MASONRY BUILDING SIGN. COORDINATE LOCATION OF SIGN W/ SITE PLANS & WALL FINISHES W/ ARCHITECTURAL PLANS

NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.





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lo.	Description	Date
	STRUCTU	

SOUTH

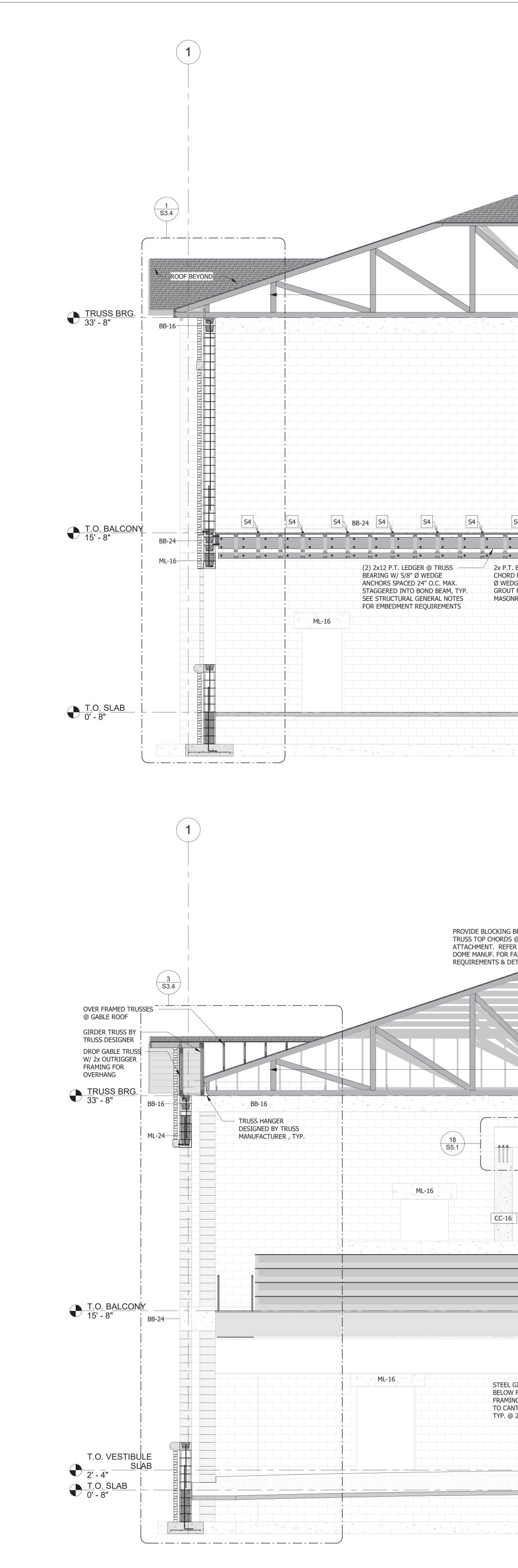
S2.2

Project number 10238.00

Date

05/10/2022

STRUCTURAL ENGINEERING 410 PEACHTREE PARKWAY Ste. 4245 CUMMING, GA 30041 (678) 720-8189 INFO@SSEDESIGN.COM SSE JOB#: 21194



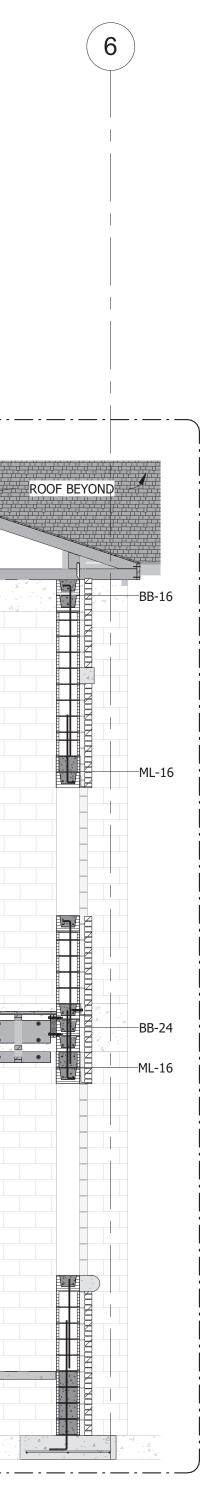
7	BUILDING SECTION @ DOME & DORMER SIDE WAL	LS
	1/4" = 1'-0"	

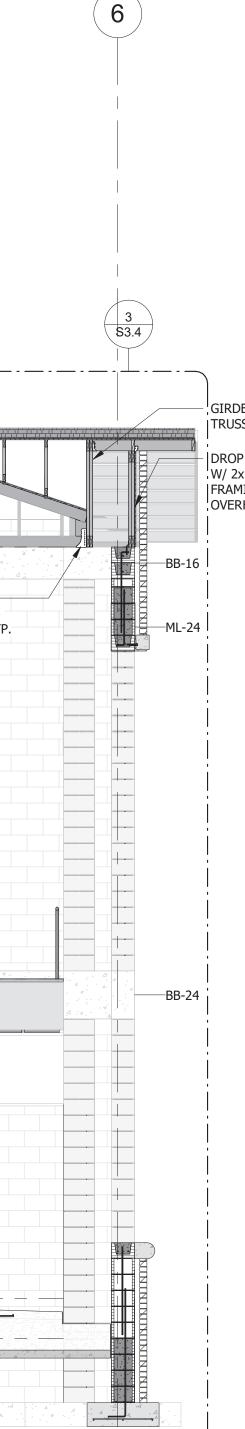
TRUSS DR TRUSS ENDS O OVER GIRDER, EL BALCONY I I I I I I I I I I I I I I I I I I I		BALCONY LEVE	EL SEATING PLATFOR	M						
INSTALLED ML-16 ML		BALCONY RIM	BOARD FACE BEYONI						1	
ROVER GIRDER, EL BALCONY	INSTALLED TRUSS DOR TRUSS ENDS				ML-16		ML-16	ML-16		
	R OVER GIRDER, VEL BALCONY									

				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{1}{1/4''} = \frac{1}{1} - 0''$	ECTION @ 2nd LEVEL FLOOR T	<u>KUSS</u>		
2	3 4	5		
		DOME FRAMING & ATTA		
BETWEEN 5 @ DOME ER TO FASTENING DETAILS		STRUCTURE BY OTHERS DESIGNER TO COORDIN ARCHITECT FOR DOME MANUFACTURER INFORI TO INCLUDE ALL SUPER LOADS FROM DOME	NATE W/ DETAILS AND MATION, AND	
ROOF TRUSS FR/	AMING 24" O.C. MAX., DESIGNED BY OTH	ERS		BB-16
	W21X55		18 S5.1	TRUSS HANGER DESIGNED BY TRUSS MANUFACTURER , TYP.
		CC-16	ML-16.	
	BB-16			
BALCONY	LEVEL SEATING PLATFORM			
BALCONY	RIMBOARD FACE BEYOND			
	W36X194			
GIRDER INSTALLED V FLOOR TRUSS ING. FLOOR TRUSS ENDS NTILEVER OVER GIRDER, 2 2nd LEVEL BALCONY			ML-16	ML-16 ML

	ROOF BEYOND			2 S3.4
ROOF TRUSS FR	AMING 24" O.C. MAX., DESIGNED BY O	THERS		
	BB-16			
	MASONRY WALL @ BACK OF STAGE AREA TO BE FULL HEIGHT OF STRUCTURE FROM STEM WALL TO BOTTOM OF ROOF TRUSS			
S4 S4 S4	S4 S4 BB-24		S4 S4	S4 S4 S4
T. BLOCKING @ TRUSS BOTTOM	• H H • H • H	BB-16		
DGE ANCHORS @ 24" O.C. INTO JT FILLED REINFORCED DNRY CELLS			x 14" LVL	(3) 1-3/4" x 14" LVL
	ML-1		MASONRY HU616 MI -16	
		WOOD FRAMED STAIRS, SEE STRUCTURAL DETAIL FOR STAIR MEMBER SIZES & ATTACHMENT		

 DOME FRAMING & ATTACHMENT TO STRUCTURE BY OTHERS. TRUSS DESIGNER TO COORDINATE W/ ARCHITECT FOR DOME DETAILS AND MANUFACTURER INFORMATION, AND TO INCLUDE ALL SUPERIMPOSED LOADS FROM DOME





FRAMING FOR

GIRDER TRUSS BY DROP GABLE TRUSS

NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN. CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.





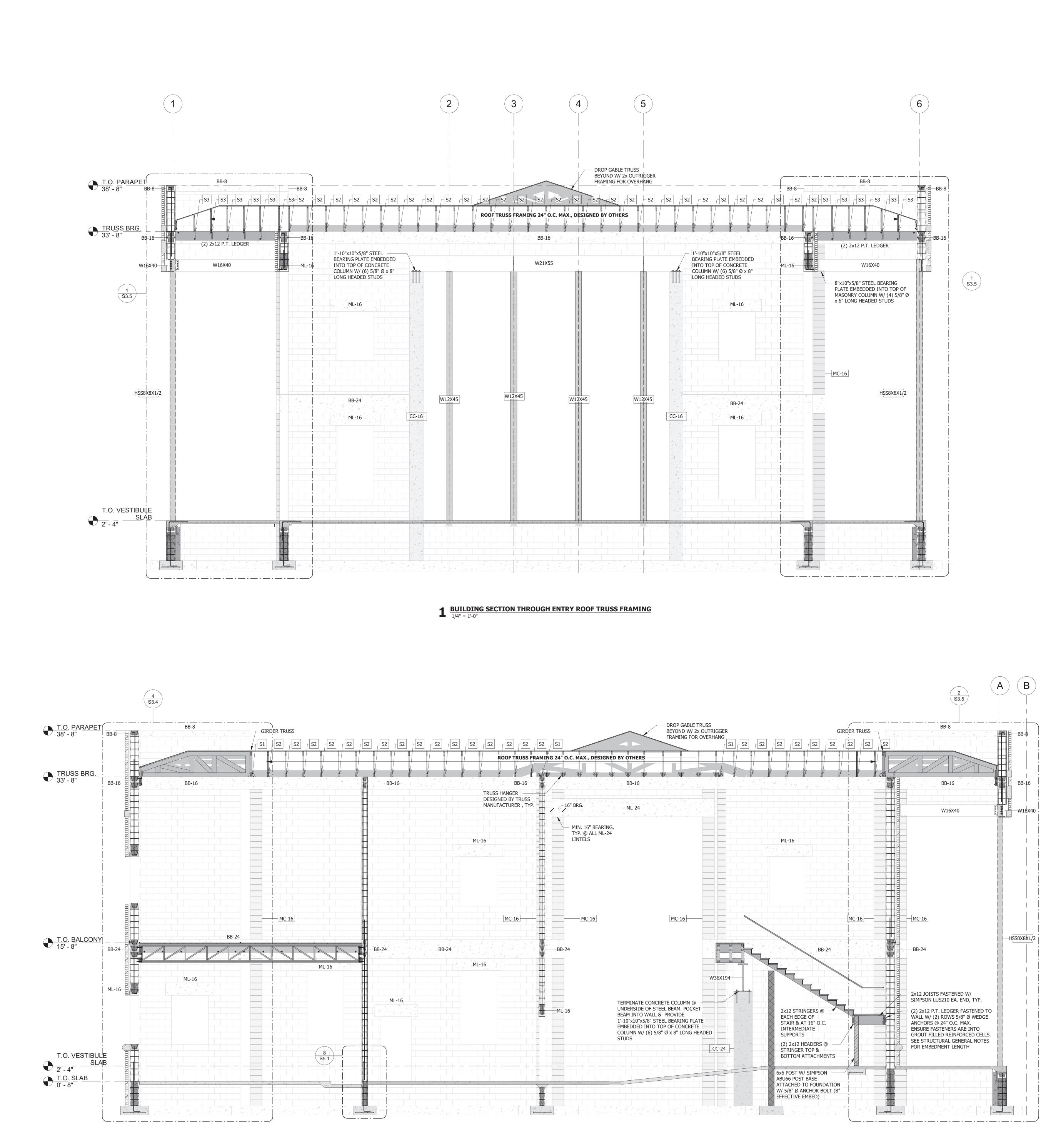


No.	Description	Date

BUILDING SECTIONS



I STRUCTURAL ENGINEERING
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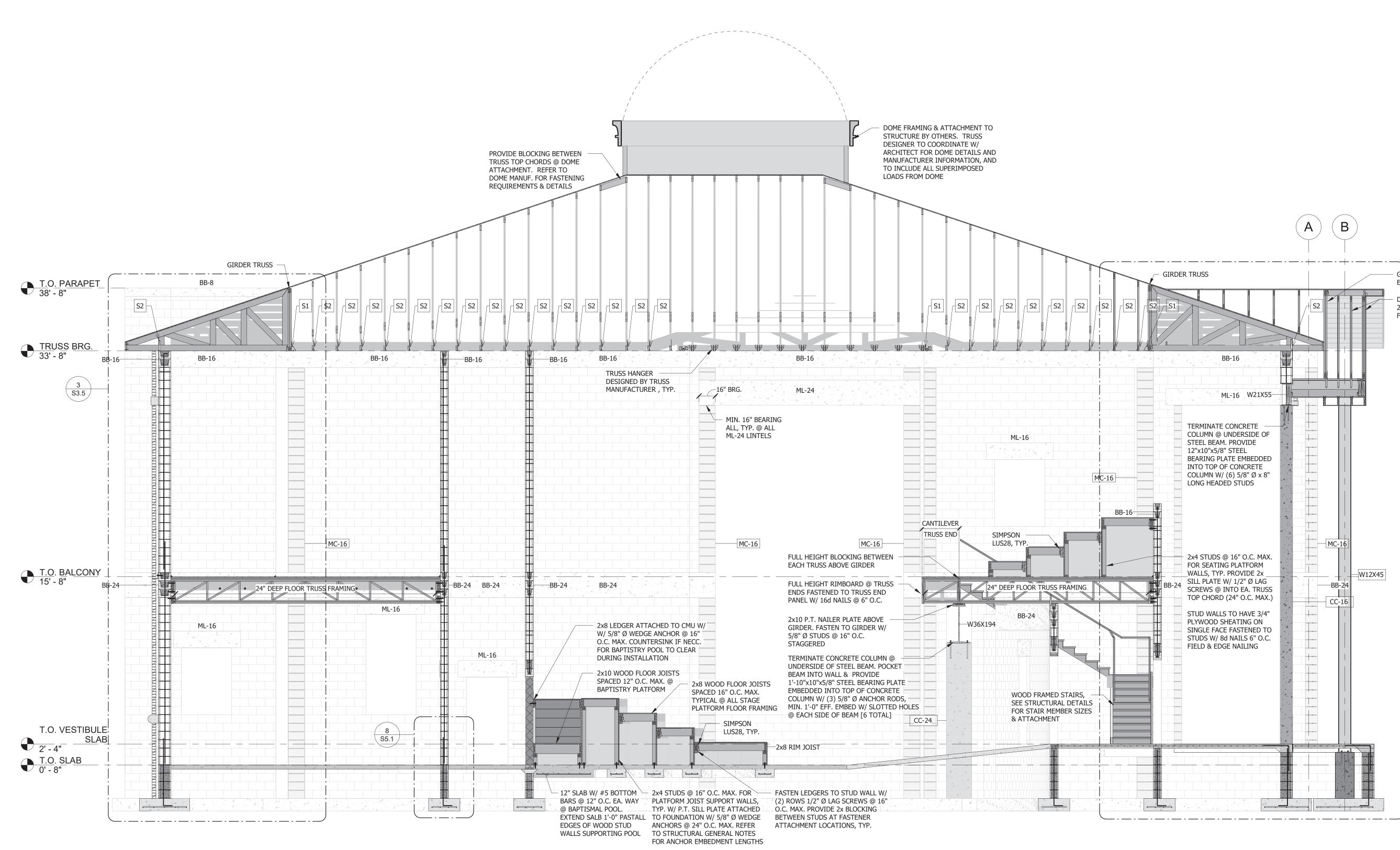


No.	Description	Date

BUILDING SECTIONS



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1 BUILDING SECTION THROUGH BALCONY & FRONT ENTRY 1/4" = 1'-0"

A) B · — · — · — · — · — · — · — - GABLE END TRUSS @ EDGE OF MAIN ROOF GIRDER TRUSS DROP GABLE TRUSS W/
 2x OUTRIGGER FRAMING FOR OVERHANG BB-16 ML-16 W21X55-<u>n i ji</u> TERMINATE CONCRETE COLUMN @ UNDERSIDE OF STEEL BEAM. PROVIDE 12"x10"x5/8" STEEL S3.6 BEARING PLATE EMBEDDED INTO TOP OF CONCRETE COLUMN W/ (6) 5/8" Ø x 8" LONG HEADED STUDS - 2x4 STUDS @ 16" O.C. MAX. FOR SEATING PLATFORM __WALLS, TYP. PROVIDE 2x __ _____W12X45 SILL PLATE W/ 1/2" Ø LAG SCREWS @ INTO EA. TRUSS TOP CHORD (24" O.C. MAX.) STUD WALLS TO HAVE 3/4" PLYWOOD SHEATING ON SINGLE FACE FASTENED TO STUDS W/ 8d NAILS 6" O.C. FIELD & EDGE NAILING

NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN. CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.





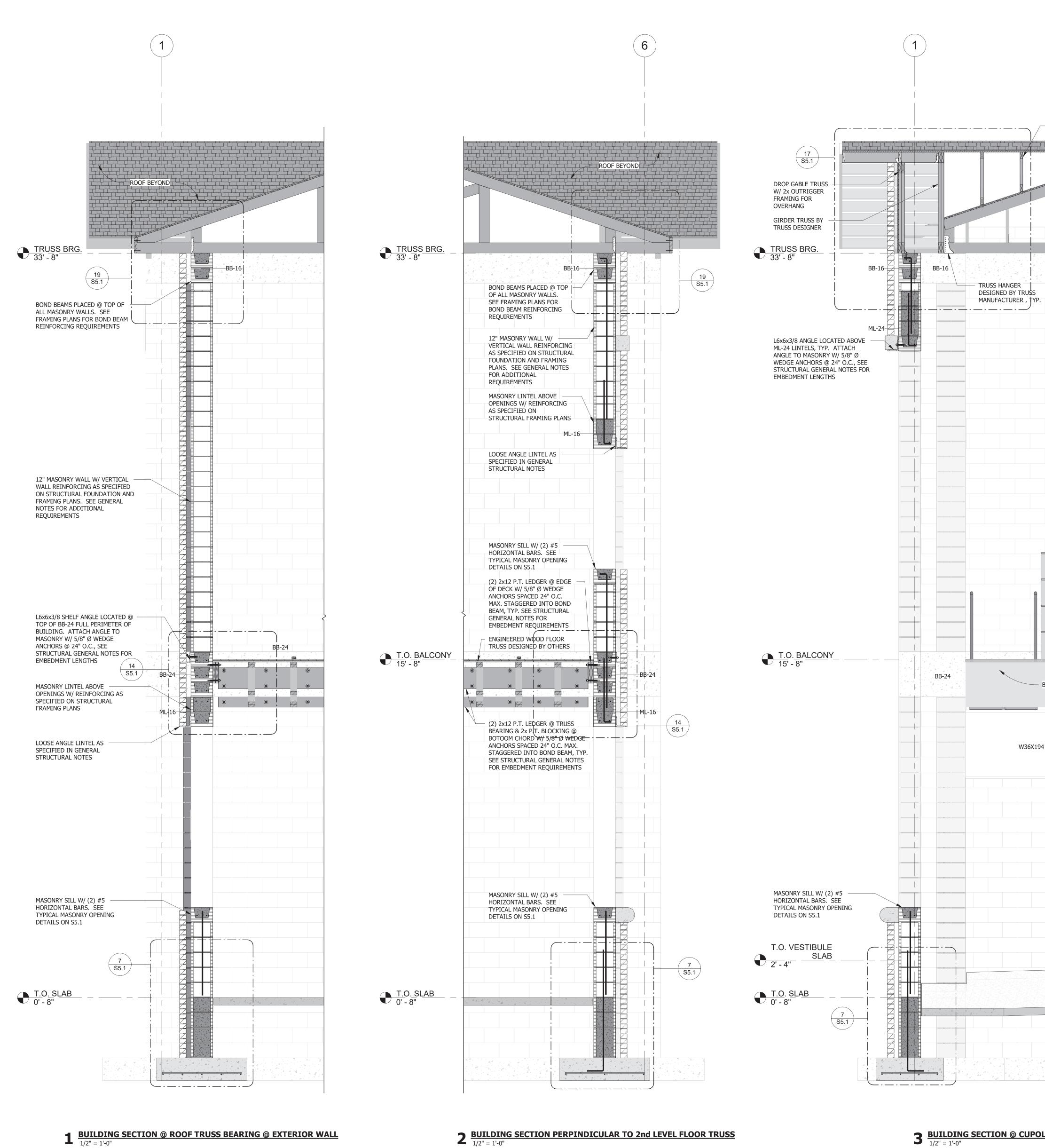


No.	Description	Date
	_	

BUILDING SECTIONS



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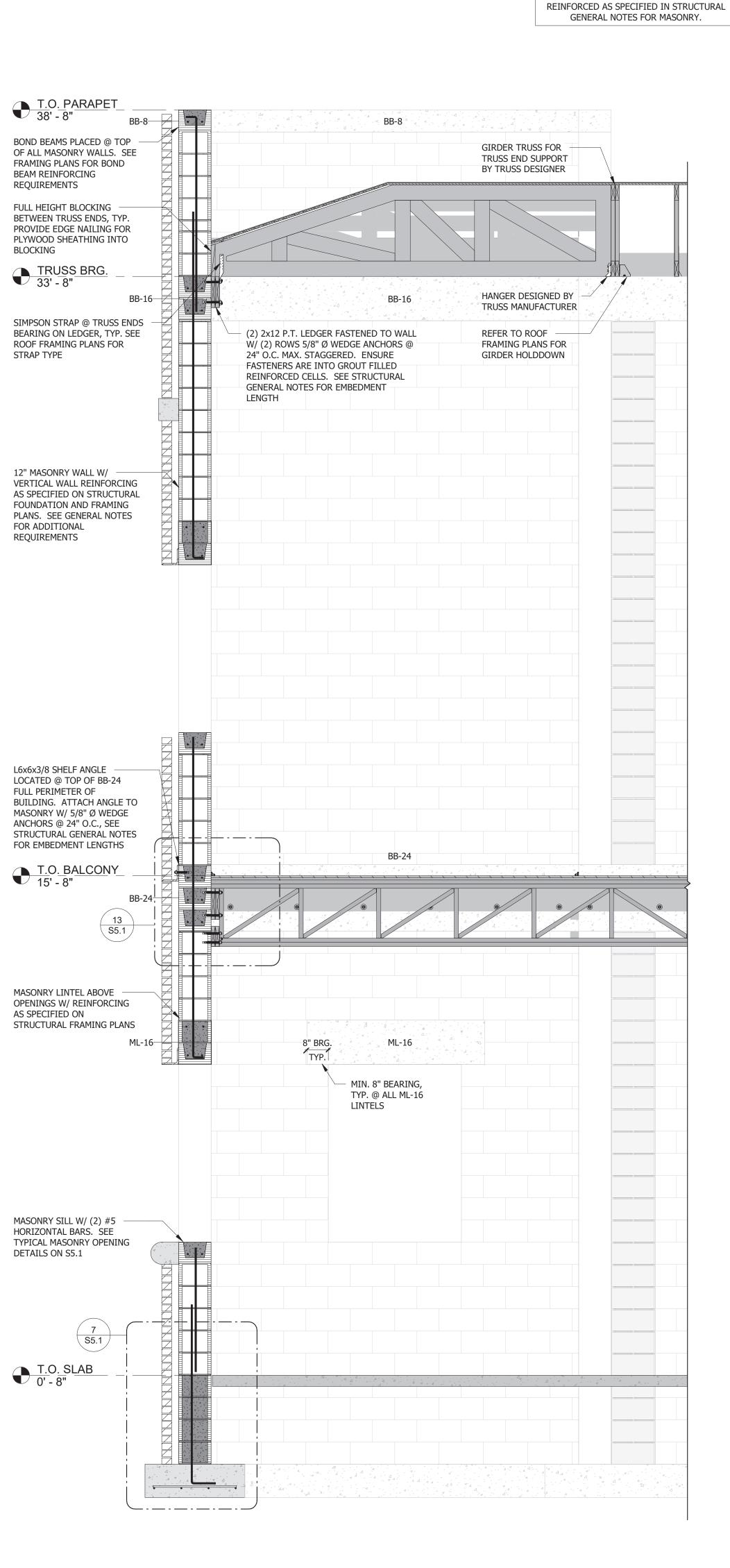
BUILDING SECTION @ CUPOLA & DORMER SIDE WALLS 1/2" = 1'-0"

NOTE:

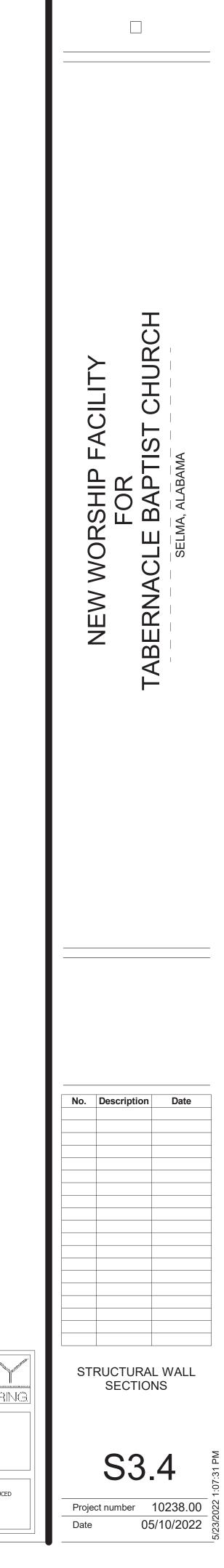
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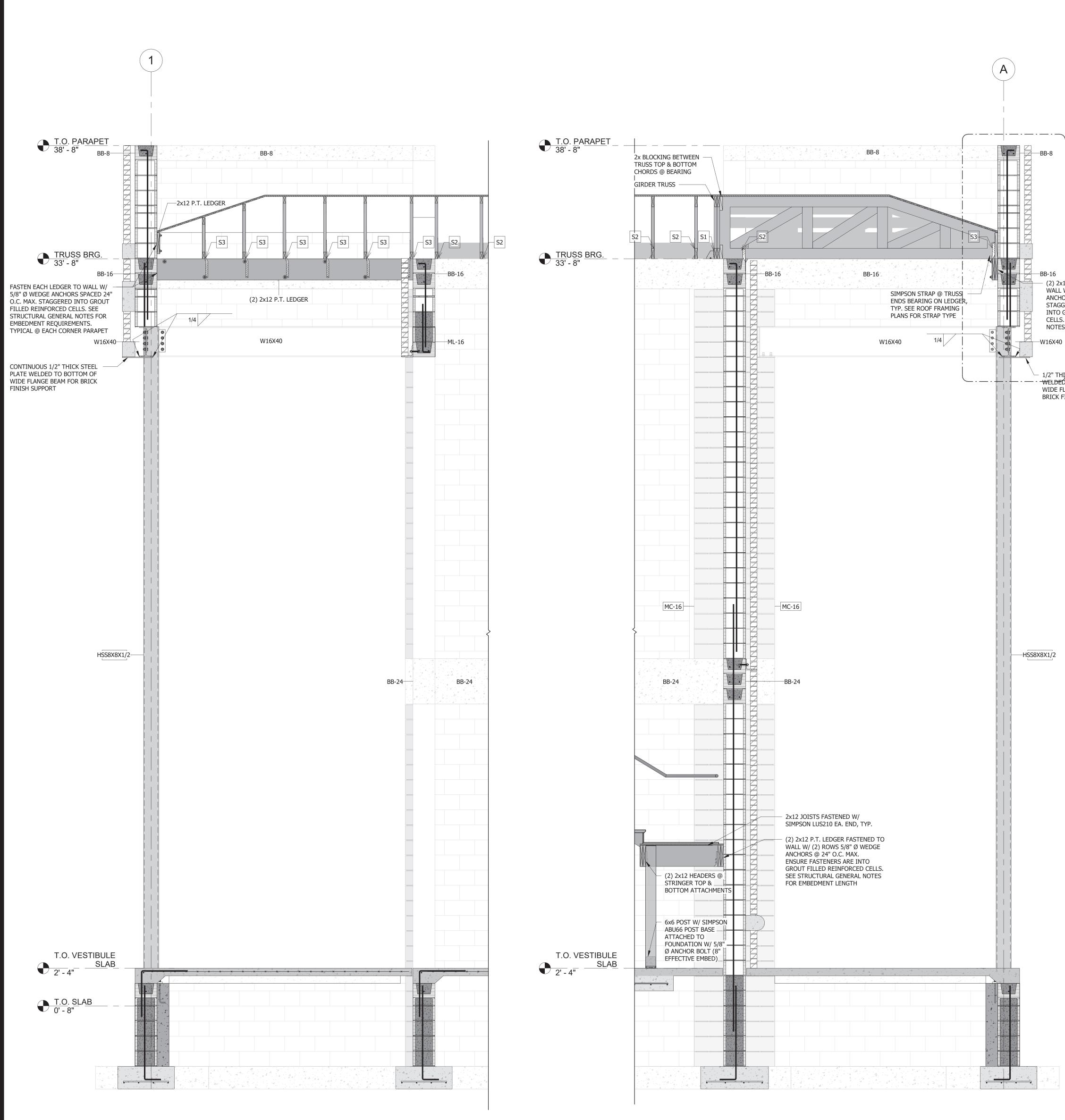
 Over Framed Trusses
 @ Gable Roof BB-16 - BALCONY RIMBOARD FACE BEYOND -----



4 WALL SECTION @ TRUSS BEARING ON LEDGER @ HIGH PARAPET $\frac{1}{2"} = 1'-0"$

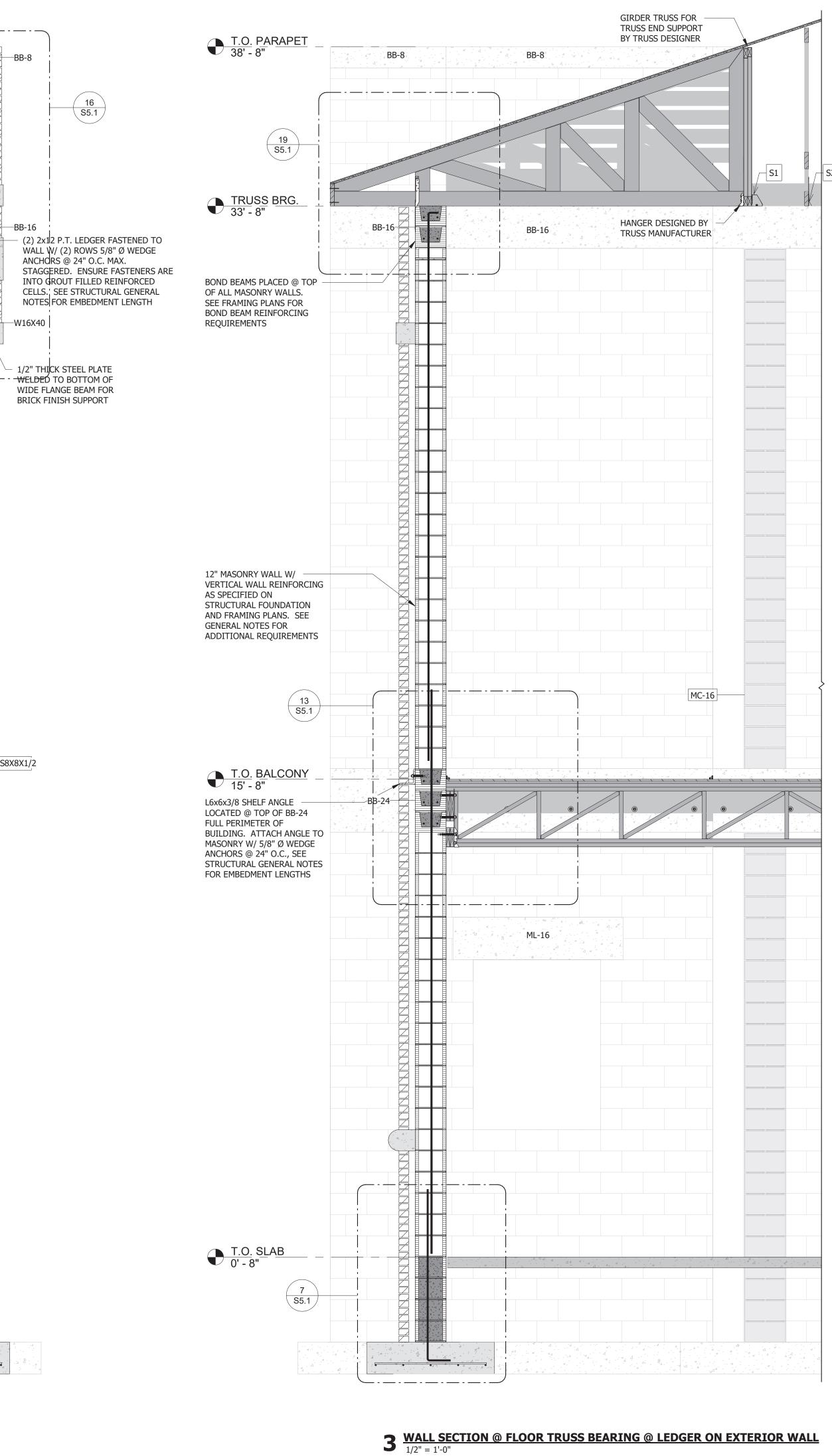


W STRUCTURAL ENGINEERING
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SSE JOB#: 21194



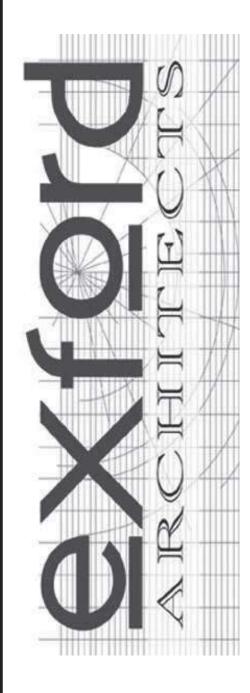
1 <u>WALL SECTION PERPINDICULAR TO TRUSS FRAMING</u> <u>@ SIDE ENTRIES</u> $\frac{1}{1/2"} = 1'-0"$

2 WALL SECTION @ TRUSS BEARING ON LEDGER @ SIDE ENTRIES 1/2" = 1'-0"



NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN. CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.

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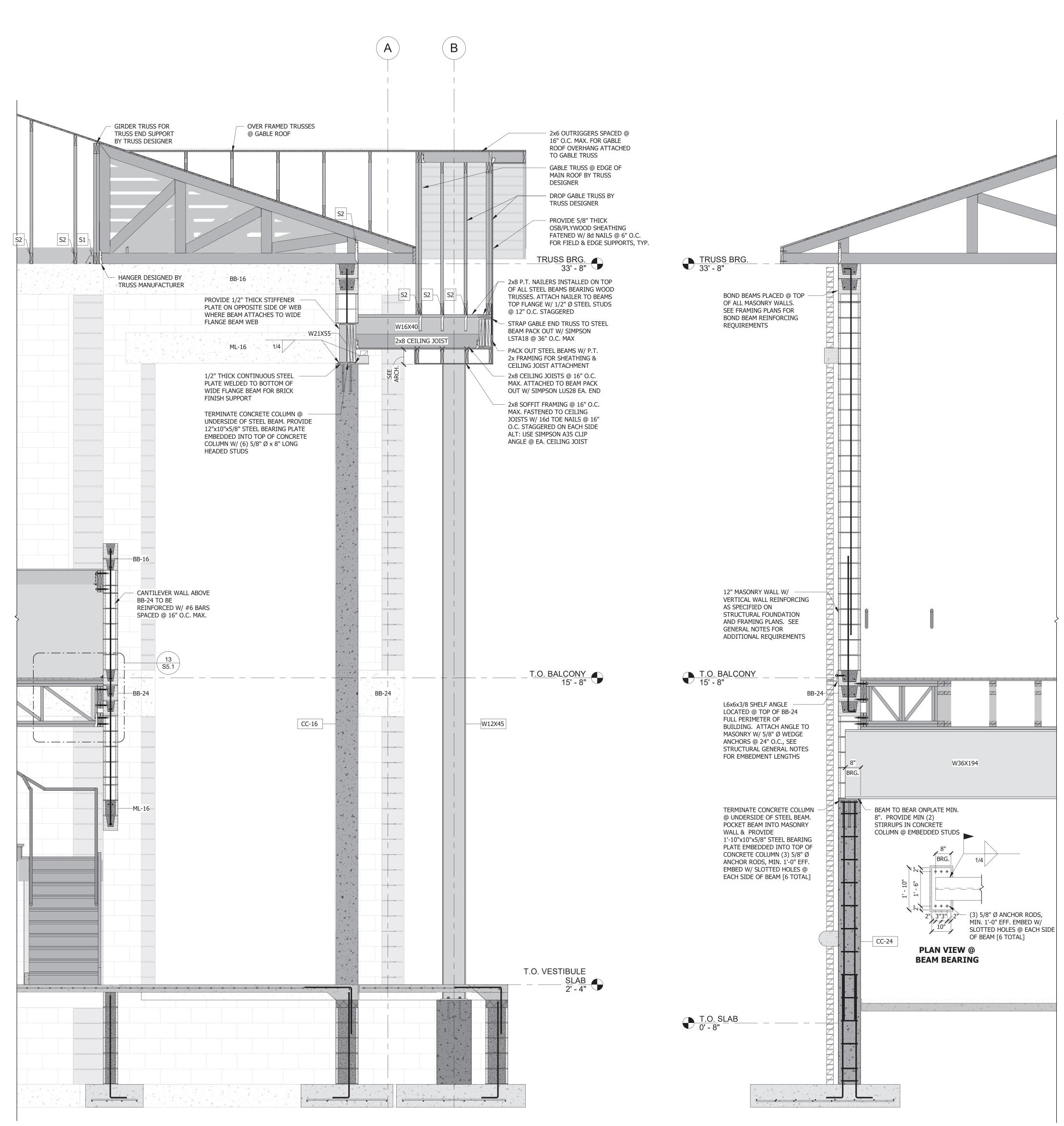


No.	Description	Date

STRUCTURAL WALL SECTIONS



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 $1 \frac{\text{WALL SECTION @ FRONT ENTRY FRAMING}}{1/2" = 1'-0"}$

2 WALL SECTION @ GIRDER BEAM POCKET IN MASONRY WALL $\frac{1}{2"} = 1'-0"$

NOTE: INTERMEDIATE BOND BEAMS ARE NOT SHOWN. CONTRACTOR IS TO LOCATE INTERMEDIATE BOND BEAMS AS REQUIRED AND SHALL BE SPACED NO GREATER THAN 48" O.C. AND BE REINFORCED AS SPECIFIED IN STRUCTURAL GENERAL NOTES FOR MASONRY.





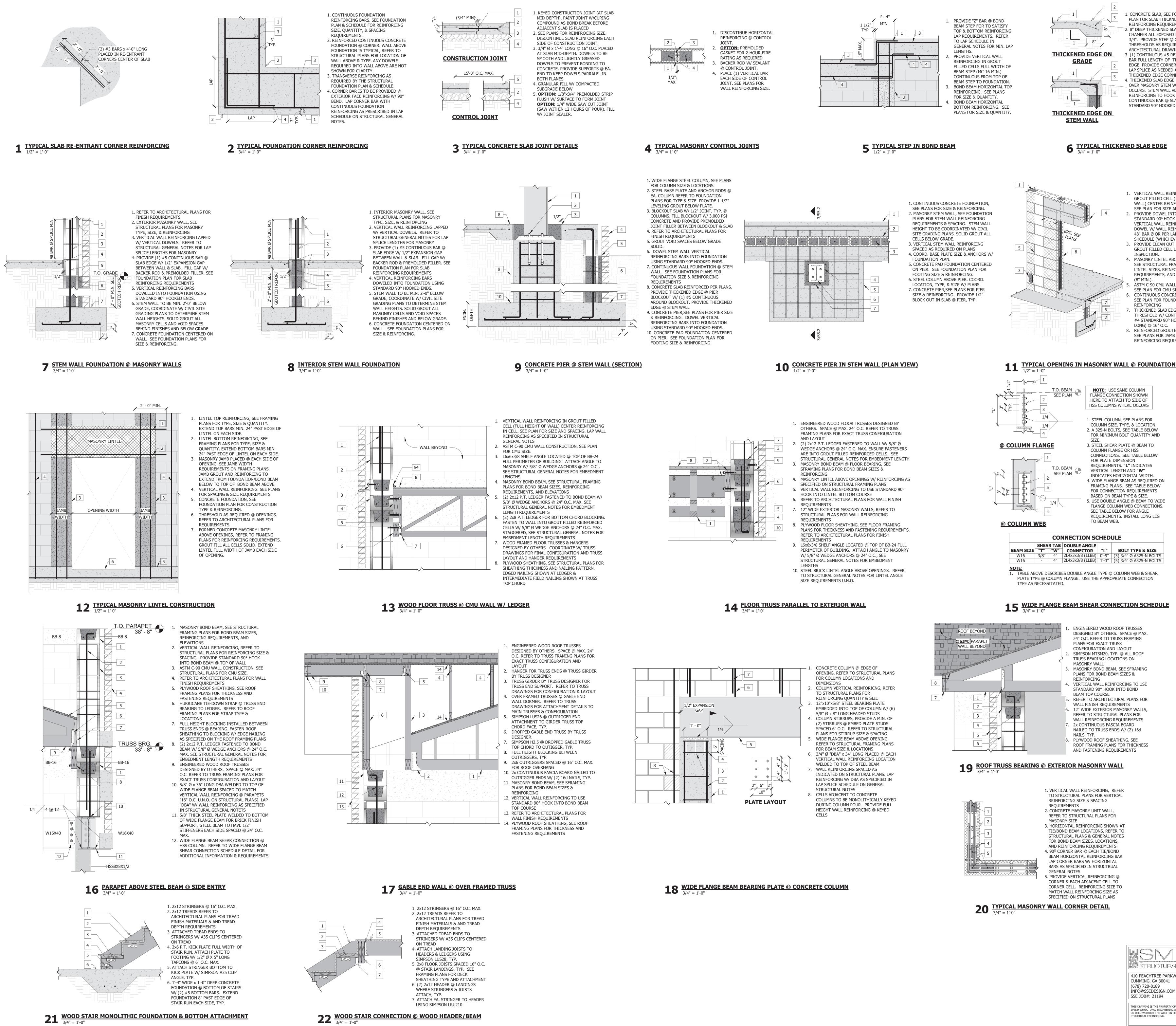


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1. CONCRETE SLAB, SEE FOUNDATION PLAN FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS. 2. 8" DEEP THICKENED SLAB EDGE CHAMFER ALL EXPOSED EDGES MIN. 3/4". PROVIDE STEP @ OPENING THRESHOLDS AS REQUIRED BY ARCHITECTURAL DRAWINGS. 3. (1) CONTINUOUS #5 REINFORCING BAR FULL LENGTH OF THICKENED EDGE. PROVIDE CORNER BARS FOR LAP SPLICE AS NEEDED AT THICKENED EDGE CORNERS. 4. THICKENED SLAB EDGE POURED OVER MASONRY STEM WALL WHERE OCCURS. STEM WALL VERTICAL REINFORCING TO HOOK OVER CONTINUOUS BAR @ SLAB EDGE W/ STANDARD 90° HOOKED END.

- 1. VERTICAL WALL REINFORCING IN GROUT FILLED CELL (FULL HEIGHT OF WALL) CENTER REINFORCING IN CELL. SEE PLAN FOR SIZE AND SPACING. PROVIDE DOWEL INTO FOOTING W/ STANDARD 90° HOOK @ EACH VERTICAL WALL REINFORCING. LAP DOWEL W/ WALL REINFORCING MIN. 48" BAR Ø OR PER LAP SPLICE SHCEDULE (WHICHEVER IS GREATER)
- 3. PROVIDE CLEAN OUT OPENINGS AT GROUT FILLED CELL LOCATIONS FOR INSPECTION. 4. MASONRY LINTEL ABOVE OPENINGS, SEE STRUCTURAL FRAMING PLANS FOR
- LINTEL SIZES, REINFORCING REQUIREMENTS, AND BEARING LENGTH (8" MIN.). ASTM C-90 CMU WALL CONSTRUCTION,
- SEE PLAN FOR CMU SIZE. 6. CONTINUOUS CONCRETE FOUNDATION. SEE PLAN FOR FOUNDATION SIZE & REINFORCING THICKENED SLAB EDGE @ DOOR
- THRESHOLD W/ CONTINUOUS #5 AND #4 STANDARD 90° HOOKED BARS (2'-0" LONG) @ 16" O.C. 8. REINFORCED GROUTED CELLS @ JAMB, SEE PLANS FOR JAMB SIZE & REINFORCING REQUIREMENTS

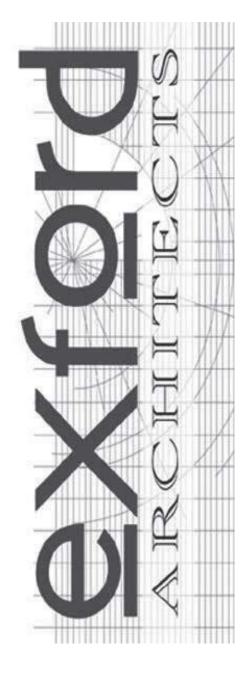
COLUMN SIZE, TYPE, & LOCATION. FOR MINIMUM BOLT QUANTITY AND CONNECTIONS. SEE TABLE BELOW

4. WIDE FLANGE BEAM AS REQUIRED ON FRAMING PLANS. SEE TABLE BELOW FOR CONNECTION REQUIREMENTS 5. USE DOUBLE ANGLE @ BEAM TO WIDE FLANGE COLUMN WEB CONNECTIONS. REQUIREMENTS. INSTALL LONG LEG

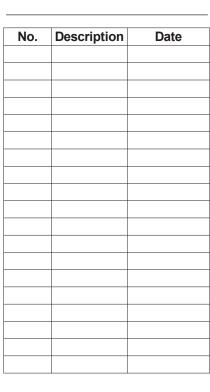
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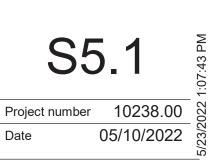




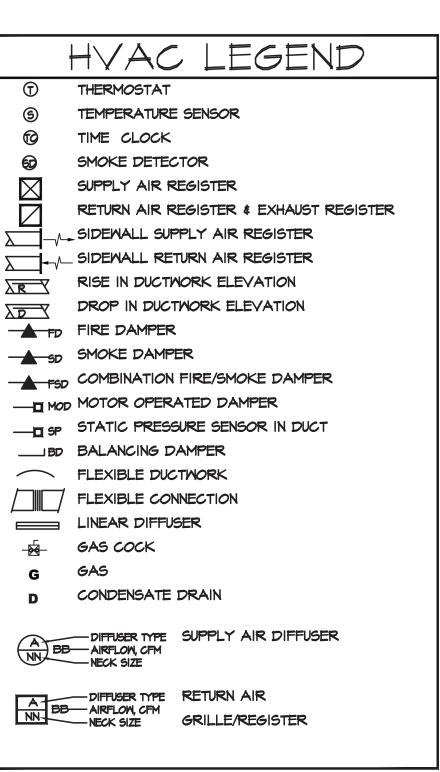
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STRUCTURAL DETAILS



	ABBREV	/IAT	IONS	
		HP	HORSEPOWER	
AFF	ABOVE FINISHED FLOOR	ΗT	HEIGHT	SITE LOCATION:
BD	BALANCING DAMPER	IH	INFRARED HEATER	
CAP	CAPACITY	KΜ	KILOWATT	
CD	CEILING DIFFUSER	L	LENGTH	DESIGN CONDITIO
CENT	CENTRIFUGAL	MAX	MAXIMUM	
CFH	CUBIC FEET PER HOUR	MBH	THOUSAND BTUH	
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM	
COND	CONDENSING	MOD	MOTOR OPERATED DAMPER	CALCULATIONS BA
COP	COEFFICIENT OF PERFORMANCE	OA	OUTSIDE AIR	
CU	CONDENSING UNIT	RA	RETURN AIR	
D	DRAIN	RAR	RETURN AIR REGISTER	
DB	DRY BULB	RTU	ROOFTOP UNIT	
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR	
EER	ENERGY EFFICIENCY RATIO	SAR	SUPPLY AIR REGISTER	HV
EFF	EFFICIENCY	SC	SENSIBLE CAPACITY	(T) THERN (G) TEMPE
ESP	EXTERNAL STATIC PRESSURE	SEER	SEASONAL ENERGY EFFICIENCY RATIO	
EXH	EXHAUST	SP	STATIC PRESSURE	60 SMOK
F	FAHRENHEIT	SYS	SYSTEM	
F	FAN	Т	THERMOSTAT	
FCU	FAN COIL UNIT	ТС	TOTAL CAPACITY	
FD	FIRE DAMPER	TEMP	TEMPERATURE	
FT	FEET	TYP	TYPICAL	
G	GAS	UH	UNIT HEATER	
GFU	GAS FIRED UNIT	\checkmark	VOLTS	
Н	HOOD	м	WIDTH	
HC	HEATING CAPACITY	MB	WET BULB	
HP	HEAT PUMP	WC	WATER COLUMN	



Minimum Ventilation Rates Per 2018 IMC, TABLE 403.3.1.1									
Room	Room Name	Area Number cfm/perso	cfm/person	cfm/sf	Total cfm	Scheduled OA			
Number	Room name	(ft^2)	of People	(cfm)	(cfm)	(cfm)	(cfm)		
100	VESTIBULE	700	105	5	0.06	567	570		
102	NURSING	58	2	5	0.06	13.48	15		
104	A.V. ROOM	84	2	5	0.06	15.04	15		
105	USHER ROOM	84	2	5	0.06	15.04	15		
109	SANCTUARY	2667	211	5	0.06	1215.02	1215		
205	BALCONY	1355	179	5	0.06	976.3	980		
114	WORK ROOM	155	2	5	0.06	19.3	20		
117	PASTOR'S OFFICE	192	3	5	0.06	26.52	30		
119	CONFERENCE ROOM	196	10	5	0.06	61.76	65		
124	CLASSROOM	128	5	10	0.12	65.36	70		
125	CLASSROOM	128	5	10	0.12	65.36	70		
126	CLASSROOM	183	6	10	0.12	81.96	85		
127	CLASSROOM	128	5	10	0.12	65.36	70		
202	CLASSROOM	208	8	10	0.12	104.96	105		
203	CLASSROOM	164	5	10	0.12	69.68	70		
204	CLASSROOM	214	8	10	0.12	105.68	105		
	TOTAL					3040.18	3500		

WALL LOUVER SCHEDULE									
MARK TYPE CFM		SIZE (W"XH")	MIN. FREE AREA (FT ²)	MAX. PRESSURE DROP (IN W.G.)	MANUFACTURER/MODEL	NOTES			
ML-I	INTAKE	2600	48"X64"	13.1	0.01	GREENHECK ESD-635-48X64	ALL		
<u>ML-2</u>	INTAKE	560	20"X20"	1.1	0.04	GREENHECK ESD-635-20×20	ALL		
<u>ML-3</u>	INTAKE	340	20"XI6"	0.8	0.03	GREENHECK ESD-603-20x16	ALL		
NOTES:	•				•				

COORDINATE WALL LOUVER MOUNTING LOCATION WITH ARCHITECTURAL. 2. PROVIDE WALL LOUVER WITH BIRDSCREEN AND MOUNTING FLANGE.

3. INTERLOCK WITH LIGHT SWITCH.

DESIGN CONDITIONS

OCATION: SELMA, AL 3670 32.41 LAT., 87.02 LONG. 125 FEET ELEVATION

ASHRAE 90.1-2019 CLIMATE ZONE 3A

21.7°F WINTER DESIGN DRY BULB (ASHRAE 99.6%) 96.3°F DRY BULB AND 76.4°F MEAN COINCIDENT WET BULB SUMMER DESIGN (ASHRAE 0.4%)

70°F WINTER INDOOR DESIGN DRY BULB (HEATING) 74°F DRY BULB AND 50% RH INDOOR DESIGN (COOLING)

JULATIONS BASED ON ASHRAE DESIGN CRITERIA AND CALCULATION METHODOLOGY.

NOTES:

TEST AND BALANCE:

- TOTAL SYSTEM BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE 5TH EDITION OF THE AABC NATIONAL STANDARDS, 2016 FOR TOTAL SYSTEM BALANCE, 7th EDITION, AND IN ACCORDANCE WITH THE SCOPE OF WORK DEFINED BY THE CONTRACT DOCUMENTS.
- 2. TESTING AND BALANCE AGENCY AS PART OF ITS CONTRACT SHALL ACT AS AN AUTHORIZED INSPECTION AGENCY, RESPONSIBLE TO THE OWNER, AND SHALL, DURING THE TEST AND BALANCE, LIST SYSTEMS THAT ARE INSTALLED INCORRECTLY, REQUIRE CORRECTION, OR HAVE NOT BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS.
- 3. TESTING AND BALANCING SHALL NOT BEGIN UNTIL ALL SYSTEMS HAVE BEEN COMPLETED AND ARE IN FULL WORKING ORDER. THE MECHANICAL CONTRACTOR SHALL PUT ALL HEATING VENTILATING, AND AIR CONDITIONING EQUIPMENT INTO FULL OPERATION AND SHALL CONTINUE THE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING.

SHEET METAL WORK - GENERAL:

. DUCTWORK, EXCEPT WHERE OTHERWISE SPECIFIED HEREIN, AND APPARATUS CASINGS SHALL BE CONSTRUCTED OF GALVANIZED STEEL IN ACCORDANCE WITH SMACNA HVAC DUCT. DUCT INSULATION:

- I. DUCT INSULATION SHALL BE I" THICK, I-I/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH THERMOSETTING RESIN AND VAPOR BARRIER, "K" VALUE NOT TO EXCEED 0.25. 2. INSULATION AND ADHESIVE SHALL HAVE A COMPOSITE FLAME
- SPREAD RATING 25 AND A COMPOSITE SMOKE-DEVELOPED RATING OF NOT MORE THAN 50. 3. INSULATION SHALL COMPLY WITH ASTM C553 AND BE PROVIDED WITH FACTORY-APPLIED FSK JACKET.
- 4. SECURE INSULATION WITH ADHESIVE AND STICK PINS. 5. PROVIDE INSULATION ON SUPPLY AIR DUCTWORK.

DUCT LINER:

- I. DUCT LINER SHALL BE I-1/2" THICK, I-1/2" LB./CUBIC FOOT DENSITY FIBER GLASS INSULATION WITH NEOPRENE FACING. MINIMUM
- INSTALLED R-VALUE = 5. 2. LINER, FACING, AND ADHESIVE SHALL HAVE A COMPOSITE FLAME
- SPREAD RATING OF 25 AND A COMPOSITE SMOKE-DEVELOPED RATING OF NOT MORE THAN 50. 3. LINER SHALL MEET EROSION TEST DESCRIBED IN UL 181-1981.
- VOLUME DAMPERS: I. DAMPERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, 2005 EDITION.
- 2. PROVIDE SINGLE-BLADE DAMPER UP TO SIX (6) INCHES IN WIDTH. PROVIDE MULTIBLADE OPPOSED BLADE DAMPER ABOVE SIX (6) INCHES IN WIDTH.
- 3. DAMPER AND BEARINGS SHALL BE SIMILAR TO VENTLOCK NO. 609; DIAL REGULATOR SHALL BE SIMILAR TO VENTLOCK NO. 637, 638, AND 639 WITH COLLAR TO CLEAR INSULATION THICKNESS INSTALLED ON DUCTWORK.

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	SIZE IN NECK	INCHES FACE	FINISH	0.B.D.	BASIS OF DESIGN	NOTES		
		REOR				DESIGN			
$\langle A \rangle$	SUPPLY	AS INDICATED	24"x24"	WHITE	NO	TITUS TMS	I,2		
B	SUPPLY	AS INDICATED	2"× 2"	MHITE	NO	TITUS TMS	۱,2		
Ċ	SUPPLY	2"×8"	4"× 0"	WHITE	NO	TITUS 300RL	З		
	RETURN	22"×22"	24"×24"	MHITE	NO	TITUS 50F	2		
E	RETURN	30"×18"	32"x20"	WHITE	NO	TITUS 350RL	4		

I. NECK SIZE AS INDICATED ON FLOOR PLAN. 2. DIFFUSER FRAME STYLE SHALL MATCH CEILING IN WHICH IT IS INSTALLED. SEE ARCHITECTURAL DRAWINGS. 3. ALL VISIBLE PORTIONS ABOVE GRILLE SHALL BE PAINTED BLACK. 4. GRILLE MAY BE PAINTED TO MATCH WALL IN WHICH IT IS INSTALLED

FAN SCHEDULE										
MARK	CFM	S.P. WG	М	TYPE	BASIS OF DESIGN	LOCATION/SERVICE	NOTES			
<u>EF-I</u>	225	0.25"	55	CEILING	GREENHECK SP-A200	MEN'S TOILET	ALL			
<u>EF-2</u>	225	0.25"	55	CEILING	GREENHECK SP-A200	WOMEN'S TOILET	ALL			
<u>EF-3</u>	150	0.25"	128	CEILING	GREENHECK SP-BI50	PASTOR'S TOILET	ALL			
<u>EF-4</u>	150	0.25"	128	CEILING	GREENHECK SP-BI50	CHOIR ROBING ROOM	ALL			
<u>EF-5</u>	75	0.25"	16	CEILING	GREENHECK SP-B90	UNISEX TOILET 106	ALL			
<u>EF-6</u>	75	0.25"	16	CEILING	GREENHECK SP-B90	UNISEX TOILET 103	ALL			
<u>EF-7</u>	150	0.25"	128	CEILING	GREENHECK SP-BI50	JANITOR CLOSET	ALL			
NOTES:	•			•						

REFER TO ELECTRICAL DRAWINGS FOR SERVICE VOLTAGE CHARACTERISTICS. PROVIDE INTEGRAL GRILLE, WALL CAP, BACKDRAFT DAMPER, SPEED CONTROLLER MOUNTED AT FAN, RADIATION DAMPER, AND DISCONNECT SWITCH. 3. INTERLOCK WITH LIGHT SWITCH.

MECHANICAL SPECIFICATIONS:

FAN SHALL BE CEILING MOUNTED, DIRECT DRIVEN, CENTRIFUGAL EXHAUST FAN.

- FAN SHALL BE MANUFACTURED AT AN ISO 9001 CERTIFIED FACILITY. FAN SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL 705) AND UL LISTED FOR CANADA (CUL 705). FAN SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.
- 3. THE FAN WHEEL HOUSING AND INTEGRAL OUTLET DUCT SHALL BE INJECTION MOLDED FROM A SPECIALLY ENGINEERED RESIN EXCEEDING UL REQUIREMENTS FOR SMOKE AND HEAT GENERATION. THE OUTLET DUCT SHALL HAVE PROVISION FOR AN ALUMINUM BACKDRAFT DAMPER WITH CONTINUOUS ALUMINUM HINGE ROD. THE INLET BOX SHALL
- 4. BE MINIMUM 22 GAUGE GALVANIZED STEEL. MOTOR SHALL BE ISOLATION MOUNTED TO A ONE PIECE GALVANIZED STAMPED STEEL INTEGRAL MOTOR MOUNT/INLET. A FIELD WIRING COMPARTMENT WITH DISCONNECT RECEPTACLE SHALL BE STANDARD. TO ACCOMMODATE DIFFERENT CEILING THICKNESS, AN ADJUSTABLE PREPUNCHED MOUNTING BRACKET SHALL BE PROVIDED. A WHITE, HIGH IMPACT STYRENE INJECTION MOLDED GRILL SHALL BE PROVIDED AS STANDARD. UNIT SHALL BE DESIGNED WITH PROVISION FOR FIELD CONVERSION FROM CEILING TO IN-LINE. UNIT SHALL BE SHIPPED IN ISTA CERTIFIED TRANSIT TESTED PACKAGING.
- 5. WHEEL SHALL BE CENTRIFUGAL FORWARD CURVED TYPE, INJECTION MOLDED OF POLYPROPYLENE RESIN. WHEEL SHALL BE BALANCED IN ACCORDANCE WITH AMCA STANDARD 204-05, BALANCE QUALITY AND VIBRATION LEVELS FOR FANS.
- 6. MOTOR SHALL BE OPEN DRIP PROOF TYPE WITH PERMANENTLY LUBRICATED BEARINGS AND INCLUDE IMPEDANCE OR THERMAL OVERLOAD PROTECTION AND DISCONNECT PLUG. MOTOR SHALL BE FURNISHED AT THE SPECIFIED VOLTAGE. SPLIT SYSTEM:
- THE SPLIT SYSTEMS SHALL PROVIDE THE MINIMUM CAPACITIES SCHEDULED, SHALL MEET ALL CONSTRAINTS OF CONSTRUCTION, AND SHALL COMPLY WITH ALL SECTIONS OF THESE SPECIFICATIONS. CONDENSING UNIT SHALL BE CERTIFIED WITH ARI STANDARDS 210-81 AND 270-82. AIR HANDLING UNITS SHALL BE UL LISTED.
- 2. INDOOR AIR CONDITIONING UNIT SHALL BE VERTICAL TYPE AS INDICATED. INSTALLATION SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES AND MINIMUM CLEARANCE REQUIREMENTS TO COMBUSTIBLE MATERIALS.
- 3. CABINET SHALL BE CONSTRUCTED OF HEAVY GAUGE COLD ROLLED STEEL WITH A BAKE-ON ENAMEL FINISH. KNOCK-OUTS SHALL BE FURNISHED IN THE TOP AND BOTTOM PANELS FOR HANGER RODS. PROVIDE COMPLETE SERVICE ACCESS TO BLOWER COMPARTMENT.
- 4. UNIT SHALL BE EQUIPPED WITH QUIET DIRECT DRIVE BLOWER BLOWER SHALL BE STATICALLY AND DYNAMICALLY BALANCED.
- 5. FAN AND LIMIT CONTROLS SHALL BE FACTORY INSTALLED AND WIRED. FAN CONTROL SHALL ASSURE PROPER BLOWER OPERATION. CONTINUOUS BLOWER OPERATION MAY BE ACCOMPLISHED BY ADJUSTING THE FAN CONTROLS.
- 6. POWER SUPPLY AND THERMOSTAT WIRING CONNECTIONS SHALL BE MADE AT JUNCTION BOX LOCATED ON FRONT OF THE UNIT. 7. BLOWER COOLING RELAY SHALL BE FURNISHED AND FACTORY
- INSTALLED ON THE WIRING JUNCTION BOX. RELAY SHALL ACTIVATE BLOWER OPERATION DURING COOLING CYCLE. 8. A 24 VOLT CONTROL TRANSFORMER SHALL BE FURNISHED AND
- FACTORY INSTALLED ON THE WIRING JUNCTION BOX. 9. FILTER SHALL BE I" THROWAWAY TYPE OF WOVEN FIBER.
- IO. PROVIDE MATCHING EVAPORATOR COIL COMPATIBLE WITH UNIT AIR FLOW AND HEAT PUMP. COIL SHALL BE COPPER TUBES WITH ALUMINUM FINS AND SHALL HAVE INSULATED CASING, DRAIN PAN AND EXPANSION VALVE. COIL SHALL BE CERTIFIED FOR COMPLIANCE WITH THE PROVISIONS OF ARI STANDARD.
- II. UNIT SHALL BE PROVIDED WITH CENTRAL ELECTRIC HEATING COIL. 12. COMPRESSOR SHALL BE INTERNALLY SPRING MOUNTED, HAVE POSITIVE CRANKCASE LUBRICATION, CRANKCASE HEATER. DISCHARGE TEMPERATURE SENSING THERMOSTAT, HIGH AND LOW PRESSURE SWITCHES, MOTOR IN-WINDING TEMPERATURES SENSING THERMOSTATS, LOW AMBIENT SENSOR AND SOLID-STATE OVERLOAD PROTECTOR.
- 13. CONDENSER COIL SHALL BE CONSTRUCTED OF ALUMINUM FINS MECHANICALLY FITTED TO COPPER. THE COIL SHALL BE FACTORY PRESSURE LEAK TESTED AT 450 PSI. COIL SHALL BE PROTECTED BY A STEEL GUARD.
- 14. THE SPLIT SYSTEM SHALL BE INSTALLED IN COMPLETE CONFORMANCE WITH THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND THESE CONTRACT DOCUMENTS.

MECHANICAL GENERAL NOTES:

- IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED. INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT CONTRACTOR OF EXISTING CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE
- ANY CONSTRUCTION WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TRADES INSTALLATION SCHEDULES. FIXED WORK SUCH AS DUCTWORK AND PLUMBING SHALL BE INSTALLED PRIOR TO ANY TRADE WORK THAT CAN BE EASILY RELOCATED OR OFFSET SUCH AS ELECTRICAL CONDUITS, SMALL WATER LINES ETC.
- 4. UNLESS OTHERWISE NOTED, INSTALL DUCTWORK AS HIGH AS POSSIBLE, TIGHT TO BOTTOM OF STRUCTURE. COORDINATE DUCT ELEVATION WITH WATER PIPING, SANITARY DRAINS AND MAJOR ELECTRICAL CONDUITS. CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND
- MECHANICAL EQUIPMENT AND MATERIALS. 6. ALL MECHANICAL WORK SHALL MEET ALL THE REQUIREMENTS OF, BUT NOT LIMITED TO, THE
- 2020 FLORIDA BUILDING CODE, MECHANICAL. 7TH EDITION. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. INTERNAL INSULATION (WHERE USED) HAS NOT BEEN ACCOUNTED FOR.
- DUCTWORK, DIFFUSERS, REGISTERS, GRILLES, AND OTHER ITEMS OF THE AIR HANDLING SYSTEM SHALL NOT BE SUPPORTED BY THE CEILING OR CEILING SUSPENSION SYSTEM. ALL WALL MOUNTED THERMOSTATS AND/OR TEMPERATURE SENSORS SHALL BE INSTALLED AT AN ELEVATION OF 48" ABOVE FINISHED FLOOR TO THE TOP UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE TENANT/OWNER OR THEIR REPRESENTATIVE IN THE FIELD.
- IO. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED. COORDINATE AIR DEVICE LOCATIONS WITH LIGHTING FIXTURES, SPEAKERS AND FIRE SPRINKLER HEADS (WHERE APPLICABLE).
- 12. CONTRACTOR SHALL VERIFY THAT THE LOCATION OF CEILING MOUNTED DIFFUSERS, GRILLES, AND REGISTERS SHOWN ON THE DRAWINGS ARE ACCEPTABLE TO THE ARCHITECT PRIOR TO INSTALLATION. ALL NEW DUCTWORK SHALL BE I" W.G. CONSTRUCTION, CONSTRUCTED OF LOCK FORMING
- GALVANIZED STEEL IN ACCORDANCE WITH THE "DUCT MANUAL AND SHEET METAL CONSTRUCTION FOR VENTILATING AND AIR CONDITIONING SYSTEMS, "THIRD EDITION, 2005, PUBLISHED BY THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION INC. (SMACNA)". VOLUME DAMPERS SHALL BE PROVIDED IN ALL BRANCH TAKE OFFS, SPIN-INS OR OTHER CONNECTIONS TO INDIVIDUAL AIR DISTRIBUTION DEVICES. ALL 90 DEGREE ELBOWS SHALL BE RADIUS, OR RECTANGULAR WITH TURNING VANES. DUCTWORK SHALL BE HUNG AS HIGH AS POSSIBLE FROM THE BUILDING STRUCTURE WITH HANGER ASSEMBLIES IN ACCORDANCE WITH "SMACNA" REQUIREMENTS. PROVIDE ADDITIONAL RISES, DROPS, AND OFFSETS IN DUCTWORK AS REQUIRED. ALL DUCTWORK SHALL BE SEALED USING IRON GRIP (NO SUBSTITUTIONS) ALL DUCT REGARDLESS OF PRESSURE CLASS SHALL BE SEALED PER SMACNA CLASS "A."
- NEW DUCTWORK SHALL BE EXTERNALLY INSULATED WITH I-1/2" THICK FIBERGLASS FLEXIBLE BLANKET INSULATION (RATED FIRE=25, SMOKE=50) SECURED TO THE DUCTWORK WITH BENJAMIN FOSTER NO. 8520 ADHESIVE & PUSH PINS ON 12" CENTERS. INSULATION TO HAVE AN INSTALLED MINIMUM R-VALUE OF 6.0.
- ALL FLEXIBLE DUCTWORK SHALL BEAR THE UL 181 LABEL (CLASS | AIR DUCT) AND SHALL BE FACTORY INSULATED (1-1/2 INCH. O.6 LB., FIBERGLASS, FIRE=25, SMOKE=50) ATCO UPC #050 OR EQUAL. FLEXIBLE DUCTWORK SHALL COMPLY W/ NFPA 90A, AND NFPA 90B. ALL FLEXIBLE DUCTWORK CONNECTED TO DIFFUSERS SHALL NOT BE LESS THAN THE NECK SIZE OF THE DIFFUSER UNLESS NOTED OTHERWISE ON DRAWINGS. MINIMUM FLEXIBLE DUCT BEND RADIUS OF CURVATURE SHALL BE 3 DUCT DIAMETERS, NO MORE THAN THE EQUIVALENT OF TWO (2) 90 DEGREE BENDS WILL BE ACCEPTABLE. TAKE OFF FITTINGS TO BE EQUAL TO FLEXMASTER TYPE 8M-R6. USE 45° THROAT AT PLENUM TAKE OFFS.
- 16. FLEXIBLE AND RIGID ROUND DUCT TAKE-OFFS FOR DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK. INSULATE RIGID ROUND DUCTS WITH 1-1/2" FOIL FACED FIBERGLASS DUCT WRAP, DUCT WRAP TO HAVE AN INSTALLED MINIMUM THERMAL RESISTANCE (R) VALUE OF 6.0. 17. ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED SHEETMETAL CONSTRUCTION IN
- ACCORDANCE WITH LATEST SMACNA STANDARDS. 18. DUCT SHALL BE SECURELY SUPPORTED, HUNG OR SUSPENDED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. PROVIDE MINIMUM 1-1/2" WIDE 22 GA. STRAPS, 10 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER UP TO 30" AND ALL ROUND FLEX DUCT. PROVIDE I" WIDE 22 GA. STRAPS, 5 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER FROM 31" TO 72" AND 1" WIDE 20 GA. STRAPS, 5 FT. SPACING FOR MAXIMUM HALF DUCT PERIMETER UP TO 96".
- 19. VERIFY VOLTAGE WITH ELECTRICAL BEFORE ORDERING EQUIPMENT. 20. ALL MECHANICAL EQUIPMENT CONTROL WIRING TO BE ROUTED IN CONDUIT. 21. GUARANTEE, FOR ONE YEAR AFTER DATE OF ACCEPTANCE BY THE OWNER, ALL EQUIPMENT,
- MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECT. 22. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM SO AS TO INSURE QUIET OPERATION. NO VIBRATION OR SOUND SHALL BE TRANSMITTED TO THE BUILDING, STRUCTURE OR OCCUPIED AREAS. THE DECISION OF THE ENGINEER AS TO THE QUIETNESS OF THE SYSTEM AND EQUIPMENT SHALL BE FINAL. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO CORRECT OR REPLACE ANY NOISY SYSTEM OR EQUIPMENT AS REQUIRED.
- 23. ALL MATERIAL SHALL BE OF APPROVED QUALITY AND THE WORK SHALL BE DONE IN A THOROUGH AND WORKMANLIKE MANNER. THE WORK, MATERIALS AND TESTS SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE MECHANICAL CODES. 24. SOLVENTS, PAINTS, ADHESIVES, SEALANTS AND OTHER MATERIALS THAT EMIT POLLUTANTS THAT COULD CAUSE IRRITATION OR HEALTH PROBLEMS FOR OCCUPANTS SHALL NOT BE USED UNLESS ADEQUATE VENTILATION IS PROVIDED. SUCH VENTILATION SHALL BE USED DURING CONSTRUCTION AND AS LONG AFTERWARDS AS REQUIRED TO KEEP THE CONCENTRATIONS OF

	SPLIT SYSTEM AIR CONDITIONING SCHEDULE											
MARK	CFM	MIN OA CFM	ESP IN WC	Η₽	COOL TONNAGE	ING MBH	AUX. HEAT KM	OUTDOOR BASIS OF DESIGN	INDOOR BASIS OF DESIGN	MIN EER/(SEER)	INDOOR WEIGHT	
<u> </u>	8000	1200	0.8	5.0	20.0	232	22.5	CARRIER 38AUQA25	CARRIER 40RUQA25T	10.7	720	
<u>HU/HP-2</u>	8000	1200	0.8	5.0	20.0	232	22.5	CARRIER 38AUQA25	CARRIER 40RUQA25T	10.7	720	
<u>HU/HP-3</u>	4000	560	0.5	2.4	10.0	119	11.3	CARRIER 38AUQDI2	CARRIER 40RUQAI2T	II <i>.0</i>	427	
<u>HU/HP-4</u>	2400	340	0.5	2.4	6.0	73	7.5	CARRIER 38AUQD07	CARRIER 40RUQA07T	۲.۱۱	381	
HU/HP-5	1400	200	0.5	1/2	3.5	40	7.5	CARRIER 25HCE442	CARRIER FB4CNF0420	11.5/(14.0)	157	
OTES:											•	

REFER TO ELECTRICAL DRAWINGS FOR SERVICE VOLTAGE CHARACTERISTICS. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT.

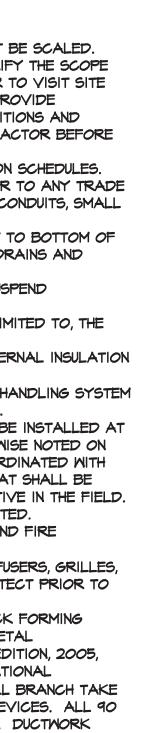
2. HEAT PUMP SHALL BE RATED FOR 95°F. 3. PROVIDE FACTORY INSTALLED ELECTRIC HEATER WITH SINGLE POINT CONNECTION.

4. PROVIDE ECONOMIZER ACCESSORY FOR ECONOMIZER OPERATIONS. 5. PROVIDE LONG LINE KIT AND ALL MANUFACTURER'S RECOMMENDED ACCESSORIES FOR REFRIGERANT LINE LENGTHS OVER

MANUFACTURER'S STANDARD LENGTH. 6. PROVIDE TXV KIT MATCHED TO COIL.

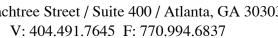
7. PROVIDE DRAIN PAN WITH AUTO SHUT OFF SWITCH. 8. INCLUDE I" FLAT PLEATED FILTER AND I SPARE SIZED FOR UNIT



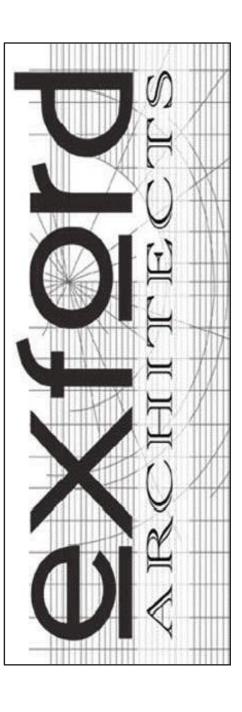


POLLUTANTS WITHIN EPA/OSHA APPROVED LIMITS. THE CONTRACTOR SHALL ALLOW FOR THE "BAKE-OUT" OF THE BUILDING BEFORE HANDOVER TO THE OWNER SO AS TO MITIGATE POTENTIAL FOR DAMAGE TO COMPLETED WORK DUE TO HEAT AND/OR HUMIDITY.

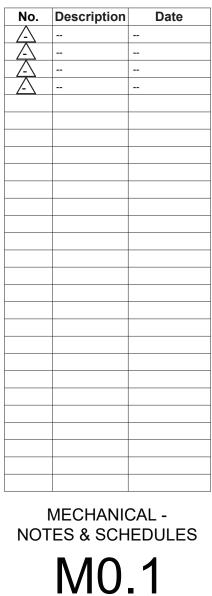
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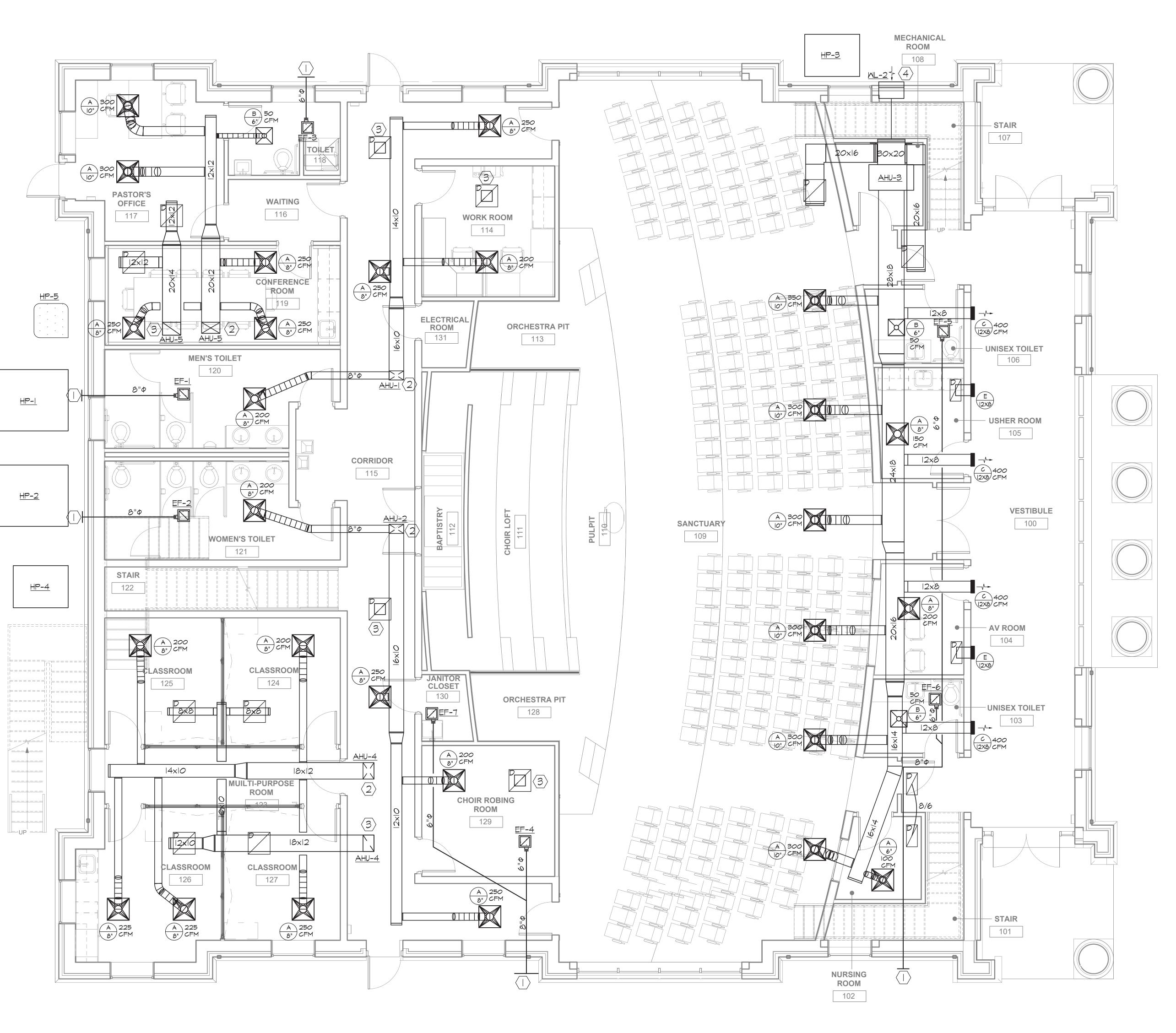


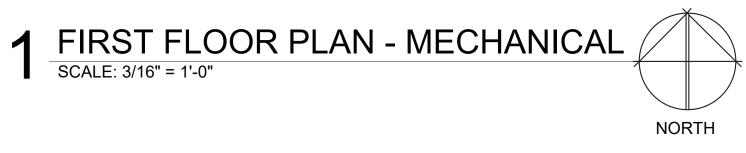
Project number 10238.00 Date 05/23/2022

- I. ROUTE ALL NEW DUCTWORK TIGHT TO STRUCTURE TO MAXIMIZE CLEARANCE ABOVE THE FINISHED FLOOR EXCEPT AS NOTED.
- 2. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR.
- 3. THESE DRAWINGS ARE DIAGRAMMATIC, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL FIELD CONDITIONS.

KEYNOTES

- EXHAUST DUCT OUT THRU WALL. TERMINATE WITH WALL CAP. SEE SHEET M2.I FOR WALL TERMINATION DETAIL.
- SUPPLY DUCT DOWN FROM 2ND FLOOR CEILING SPACE TO SERVE IST FLOOR. COORDINATE ROUTING WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- RETURN DUCT DOWN FROM 2ND FLOOR CEILING SPACE TO SERVE IST FLOOR. COORDINATE ROUTING WITH STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- 4 OUTSIDE AIR INTAKE FOR AIR HANDLING UNITS. SEE WALL LOUVER SCHEDULE FOR MORE DETAIL. VERIFY LOCATION, MOUNTING HEIGHT, COLOR & FINISH WITH ARCHITECTURAL.

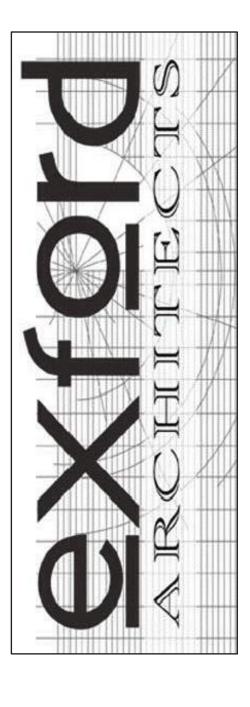


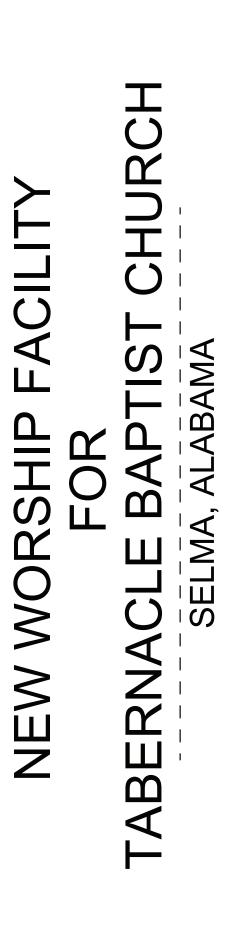


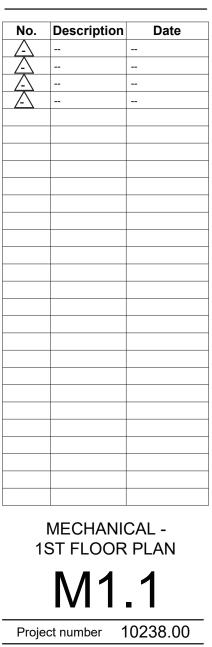












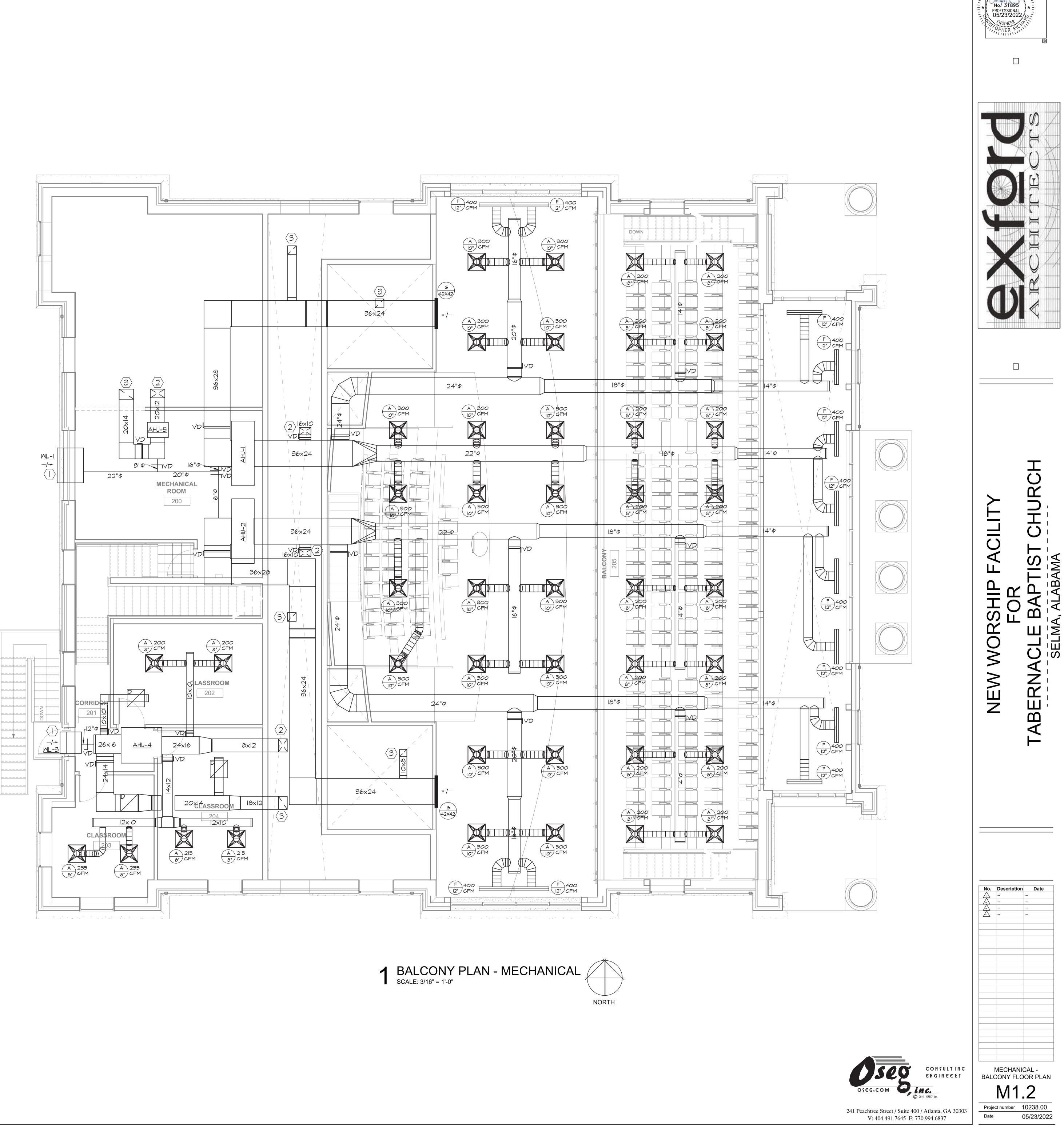
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KEYNOTES

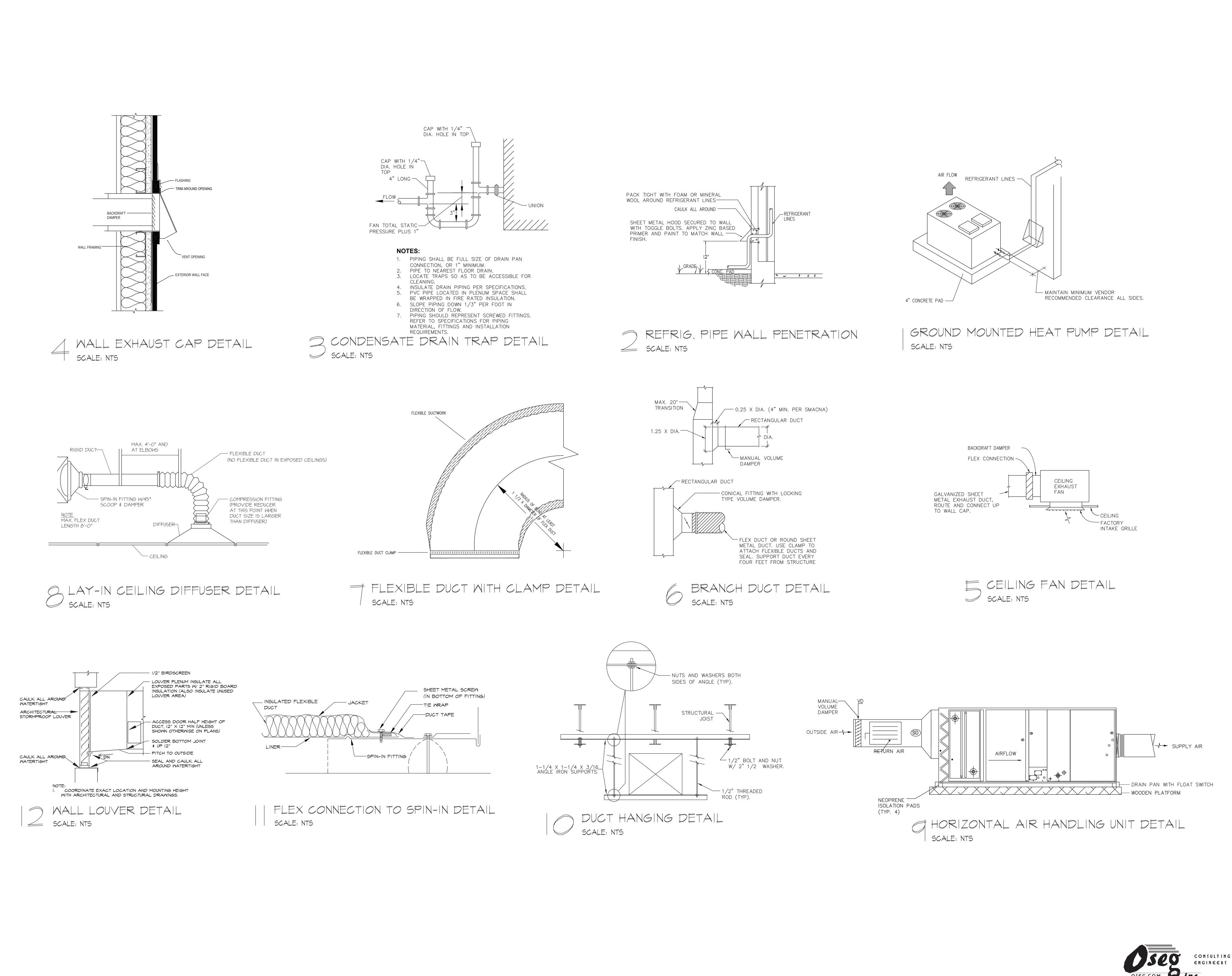
OUTSIDE AIR INTAKE FOR AIR HANDLING UNITS. SEE WALL LOUVER SCHEDULE FOR MORE DETAIL. VERIFY LOCATION, MOUNTING HEIGHT, COLOR & FINISH WITH ARCHITECTURAL. $\langle \uparrow \rangle$

 $\langle 2 \rangle$ SUPPLY DUCT DOWN TO SERVE FIRST FLOOR.

 $\langle 3 \rangle$ RETURN DUCT DOWN TO SERVE FIRST FLOOR.

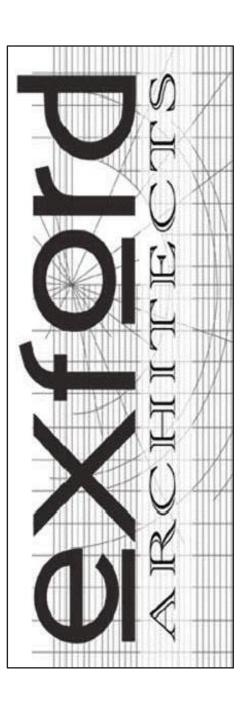


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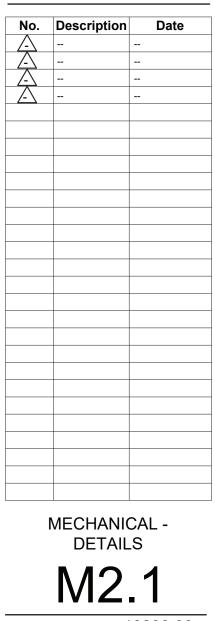






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 Comparison

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Project number 10238.00 05/23/2022 Date

PLUMBING SPECIFICATIONS

<u>GENERAL</u> THE GENERAL CONDITIONS OF THE GENERAL SPECIFICATIONS, ALONG WITH ALL APPLICABLE INSTRUCTIONS TO BIDDERS SHALL FORM A PART OF THIS SECTION OF THE SPECIFICATIONS. REFERENCE IS MADE TO REQUISITES FOR BIDDERS AND CONTRACTORS UNDER OTHER SECTIONS OF THESE B.

B

GUARANTEE:

EACH CONTRACTOR SHALL THOROUGHLY ACQUAINT HIMSELF WITH THE CONSTRUCTION DETAILS, BEFORE SUBMITTING HIS BID AS NO ALLOWANCES WILL BE MADE BECAUSE OF THE CONTRACTOR'S UNFAMILIARITY WITH THESE DETAILS. ALL

SPECIFICATIONS, WHICH SHALL BE CONSIDERED BINDING, UNLESS OTHERWISE NOTED UNDER THIS SECTION.

PERFORMANCE OF CONSTRUCTION SHALL BE AS REQUIRED BY THE PACE OF THE GENERAL CONSTRUCTION. INSPECTION OF SITE ALL PROPOSALS SHALL PRECLUDE THAT CONTRACTOR IS FAMILIAR WITH JOB SITE CONDITIONS AND UTILITY

LOCATIONS AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.

ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR INVOLVED. CODE REQUIREMENTS

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS OR AS DIRECTED BY THE OWNER, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, OR REGULATIONS OF THE GOVERNING BODIES, WHETHER SO SHOWN OR NOT, AND ALL MODIFICATIONS REQUIRED BY SUCH AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ANY ADDITIONAL COST TO THE OWNER.

- MATERIALS AND WORKMANSHIP A. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURERS, AND UNLESS OTHERWISE SPECIFIED SHALL BE NEW, AND FREE FROM ANY DEFECTS. ALL LIKE MATERIALS USED SHALL BE OF THE SAME MANUFACTURE AND QUALITY UNLESS OTHERWISE SPECIFIED.
- B. ALL WORK UNDER THIS CONTRACT SHALL BE PERFORMED BY COMPETENT WORKMEN AND EXECUTED IN A NEAT AND WORKMANLIKE MANNER. WORK SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION, AND ON COMPLETION, THE INSTALLATION SHALL BE THOROUGHLY CLEANED AND ALL DEBRIS PRESENT AS A RESULT OF THIS CONTRACT SHALL BE REMOVED FROM THE PREMISES, DO NOT JUST ABANDON.

CODES AND REGULATIONS EACH SUBCONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS BEARING ON THE CONDUCT OF THE WORK AS DRAWN OR SPECIFIED. IF A SUBCONTRACTOR OBSERVES THAT THE DRAWINGS AND SPECIFICATIONS ARE AT A VARIANCE, HE SHALL PROMPTLY NOTIFY THE GENERAL CONTRACTOR AND THE TENANT IN WRITING. IF ANY SUBCONTRACTOR PERFORMS ANY WORK KNOWING IT TO BE CONTRARY TO LAWS, ORDINANCES, RULES AND REGULATIONS AND WITHOUT GIVING SUCH NOTICE, THE SUBCONTRACTOR SHALL BEAR ALL COSTS ARISING THEREFROM.

- PROTECTION OF WORK AND PROPERTY A. EACH SUBCONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF ALL HIS WORK FROM DAMAGE AND SHALL PROTECT THE OWNER'S PROPERTY FROM INJURY OR LOSS ARISING FROM HIS WORK. HE SHALL MAKE GOOD ANY SUCH DAMAGE. INJURY, OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO CAUSES BEYOND HIS CONTROL AND NOT TO HIS FAULT OR NEGLIGENCE. HE SHALL ADEQUATELY PROTECT ADJACENT PROPERTY AS WELL.
- EACH SUBCONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF THEIR EMPLOYEES ON THE WORK AND SHALL COMPLY WITH ALL PROVISIONS OF FEDERAL, STATE AND LOCAL BUILDING CODES AND SAFETY LAWS TO PREVENT ACCIDENTS OR INJURY TO PERSONS ON OR ADJACENT TO THE PREMISES WHERE THE WORK IS BEING PERFORMED. EACH SUBCONTRACTOR SHALL MAINTAIN ALL INSURANCE REQUIRED TO PROTECT HIMSELF, OWNER AND TENANT FOR THE DURATION OF THE WORK AGAINST PROPERTY DAMAGE AND PUBLIC LIABILITY.

CHANGES IN THE WORK THE OWNER, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY. <u>COOPERATION</u>

ALL WORK UNDER THESE SPECIFICATIONS SHALL BE ACCOMPLISHED IN CONJUNCTION WITH OTHER CONTRACTORS AND TRADES OF THIS PROJECT IN A MANNER WHICH WILL ALLOW EACH CONTRACTOR AND TRADE ADEQUATE TIME AT THE PROPER STAGE OF CONSTRUCTION TO FULFILL HIS CONTRACTS. REFERENCE SHALL BE MADE TO THE OWNER FOR INSTRUCTIONS SHOULD ANY QUESTIONS ARISE BETWEEN TRADES AS TO THE PLACING OF LINES, DUCTS, CONDUITS, FIXTURES, OR EQUIPMENT, OR SHOULD IT APPEAR DESIRABLE TO REMOVE ANY GENERAL CONSTRUCTION WHICH WOULD AFFECT THE APPEARANCE OR STRENGTH OF THE STRUCTURE.

SUBSTITUTION OF MATERIALS MANUFACTURER'S NAMES ARE LISTED HEREIN TO ESTABLISH A STANDARD. THE PRODUCTS OF OTHER MANUFACTURERS WILL BE ACCEPTABLE, IF IN THE OPINION OF THE OWNER OR OWNERS REPRESENTATIVE THRU A SUBMITTAL PROCESS, THE SUBSTITUTE MATERIAL IS OF A QUALITY AS GOOD OR BETTER THAN THE MATERIAL SPECIFIED, AND WILL SERVE WITH EQUAL EFFICIENCY AND DEPENDABILITY, THE PURPOSE FOR WHICH THE ITEMS SPECIFIED WERE INTENDED.

<u>SHOP DRAWINGS</u> SHOP DRAWINGS AND CATALOG DATA ON ALL MAJOR ITEMS OF EQUIPMENT AND SYSTEMS, AND SUCH OTHER ILLUSTRATIVE MATERIAL AS MAY BE CONSIDERED NECESSARY BY THE TENANT, SHALL BE SUBMITTED BY THIS CONTRACTOR IN ADEQUATE TIME TO PREVENT DELAY AND CHANGES DURING CONSTRUCTION.

- DRAWINGS AND SPECIFICATIONS A. THE DRAWINGS SHOW DIAGRAMMATICALLY THE LOCATIONS OF THE VARIOUS LINES, DUCTS, CONDUITS, FIXTURES, AND EQUIPMENT AND THE METHOD OF CONNECTING AND CONTROLLING THEM. IT IS NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL AND ALL FITTINGS REQUIRED FOR A COMPLETE SYSTEM.
- B. SHOULD ANY CHANGES BE DEEMED NECESSARY BY THE CONTRACTOR IN ITEMS SHOWN ON CONTRACT DRAWINGS, THE SHOP DRAWINGS, DESCRIPTIONS, AND THE REASON FOR THE PROPOSED CHANGES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.
- RESPONSIBILITY A. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE SATISFACTORY AND COMPLETE EXECUTION OF ALL WORK INCLUDED IN HIS CONTRACT. HE SHALL PRODUCE COMPLETE FINISHED OPERATING SYSTEMS AND PROVIDE ALL INCIDENTAL ITEMS REQUIRED AS PART OF HIS WORK, REGARDLESS OF WHETHER SUCH ITEM IS PARTICULARLY SPECIFIED OR INDICATED.
- <u>GENERAL PROVISIONS</u> SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.

OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID.

COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.

- 2. GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK OF THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.
- A. DRAWINGS: THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.
- COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE MATERIALS:

ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.

2. BACKFILLING:

PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENINGS SO AS TO ELIMINATE SHIMMING AND VOID SPACES UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH STRUCTURAL ENGINEER-APPROVED CONRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST). SOIL REPORT IF AVAILABLE.

3. PIPING INSTALLATION:

CLEAN-OUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE BLUEPRINTS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF SOIL AND WASTE PIPES WITH LONG RADIUS FITTINGS OR WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS, CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH "Y" CONNECTIONS, WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES, EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES,

					LUMB	INE	; FI	XTL	RE	SCHEDULE	
AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL		FIXTURE DATA		\	CONNECTION DATA						
NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS. UNIONS SHALL BE COPPER TYPE NIBCO # 733 OR EQUAL. PROVIDE AIR CHAMBER TYPE WATER HAMMER ARRESTORS OR ACCEPTABLE FACTORY MANUFACTURED SUBSTITUTES AT ALL WATER ROUGH-IN LOCATIONS.	PLAN TAG	FIXTURE	QTY.	MFG.	SOIL SIZE	VENT SIZE	TRAP	W/ COLD	ATER HOT	- DESCRIPTION	
NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTINGS WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SLIP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.	MC-1	WATER CLOSET	8	KOHLER K-96057-0	3"	2"	INTEGRAL	. "		ADA COMPLIANT, FLOOR MOUNTED, TOP SPUD FLUSHOMETER BOWL. SEAT: K-4731-C FLUSHOMETER: K-76321-CP, 1.28 GPF MANUAL VALVE	
4. NATURAL GAS PIPING: FOR ABOVEGROUND INSTALLATIONS, ALL FITTINGS TO BE JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST BLACK IRON AND INSTALLED IN A MANNER SUCH THAT NO	LAV-I	LAVATORY	4	KOHLER K-2196-4-0	2"	- /2"	2"	I/2"	I/2"	DROP-IN BATHROOM SINK WITH 4" CENTERSET FAUCET HOLES. FAUCET: KOHLER K-393-N4-CP TWO-HANDLE CENTERSET LAVATORY FAUCET FOR 4" CENTERS.	
STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH.	LAV-2	LAVATORY	з	KOHLER K-2035-4-0	2"	- /2"	2"	1/2"	I/2"	WALL-MOUNT BATHROOM SINK WITH 4" CENTER-SET FAUCET HOLES. FAUCET: KOHLER K-393-N4-CP TWO-HANDLE CENTERSET LAVATORY FAUCET FOR 4" CENTERS.	
5. WATER PIPE: JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE, AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE	UR-I	URINAL	I	KOHLER K-4991-ET-0	2"	- /2"	2"	3/4"		ADA COMPLIANT, VITREOUS CHINA, LOW CONSUMPTION (O.125 GPF), FLUSHOMETER: KOHLER K-13520 HIGH EFFICIENCY MANUAL FLUSH VALVE, O.125 GPF	
NON-CORROSIVE. ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING; E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO	FD	FLOOR DRAIN	6	J.R. SMITH 2005 SERIES	3"	2"	3"			WITH BRONZE STRAINER, DOUBLE DRAINAGE FLANGE, WEEP HOLES AND TRAP PRIMER	
BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.	षा	TRAP PRIMER	6	PRECISION PLUMBING PRODUCTS				1/2"		MODEL #PR-500, ALL BRONZE TRAP PRIMER WITH REMOVABLE OPERATING PARTS, INTEGRAL VACUUM BREAKER GASKETED ACCESS COVER AND CHROME PLATED.	
NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.	SK-I	SINK	з	KOHLER K-3348-3-NA	2"	- /2"	2"	I/2"		25" X 22" X 7-11/16" TOP-MOUNT SINGLE-BOWL KITCHEN SINK WITH 3 FAUCET HOLES FAUCET: KOHLER K-15171-F-CP	
A. MATERIALS - UNDERGROUND: TYPE "L" COPPER TUBE, SOFT TEMPER, AND PEX. B. MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN, AND PEX.	MS-I	MOP SINK	1	E.L. MUSTEE 63M 24"X24"XI <i>O</i> "	2"	- /2"	2"	1/2"	1/2"	FAUCET: MUSTEE 63.600A WALL MOUNTED, CHROME PLATED, WITH INTEGRAL VACUUM BREAKER, INTEGRAL STOPS, WALL BRACE, PAIL HOOK, AND HOSE THREAD SPOUT.	
C. INSULATION: INSULATION FOR HOT AND COLD WATER. PIPING SHALL BE 1/2" (I" ON IST & FT. FROM HEATER) THICK ARMAFLEX UL LABELED OR FIBERGLASS 25 WITH ASJ/SSL FOIL/VINYL JACKET OR EQUAL. INSULATE ALL PIPING FITTINGS AND WATER LINES.	TMV-I	THERMOSTATIC MIXING VALVE	1	POWERS LFMMV				1/2"	I/2"	THERMOSTATIC MASTER MIXING VALVE MODEL LEMMV, INTEGRAL COMBINATION CHECK STOPS WITH STRAINERS, TEMPERATURE RANGE: 80 TO 120 DEG., FLOW CAPACITY OF A MINIMUM OF 0.5 GPM TO MAX 12 GPM, BRONZE BODY, INTEGRAL FILTER WASH, CHECK VALVES, ADJUSTMENT CAP WITH LOCKING FEATURE, 0.5 GPM MINIMUM FLOW.	
6. GAS PIPING A. UNDERGROUND GAS PIPING: ASTM A53, SCHEDULE 40 BLACK STEEL PIPE WITH LONG RADIUS STEEL WELDING FITTINGS INCLUDING CATHODIC PROTECTION OR POLYETHYLENE AS APPROVED BY LOCAL GAS COMPANY AND AUTHORITY HAVING JURISDICTION.	S H -I	SHOWER	I	KOHLER K-45413-G-CP				/2"	I/2"	1.75 GPM SHOWERHEAD. PROVIDE WITH SHOWER ARM AND FLANGE K-7397-CP	
 B. GAS PIPING ABOVE GROUND: ASTM A53, SCHEDULE 40 BLACK STEEL WITH 125 POUND BLACK MALLEABLE IRON SCREWED FITTINGS. INSTALL MOISTURE TRAPS ON HVAC UNITS, WATER HEATER, AND KITCHEN EQUIPMENT. GAS PIPING COMPOUND AT JOINTS; IN COMPLIANCE WITH NEPA BULLETIN #54 AND LOCAL 	SD-I	SHOWER DRAIN	1	KOHLER K-9135-CP	2"	2"	2"			POLISHED CHROME SHOWER DRAIN WITH ROUND GRID PLATE.	
APPLICABLE CODES AND SUITABLE FOR NATURAL GAS SERVICE. 7. WASTE PIPING: PER IPC 2018 TABLE 704.I SANITARY SEWER PIPE DIAMETER 2-1/2" OR LESS TO BE SLOPED AT	FCO/GCO	FLOOR/GRADE CLEANOUT	6	J.R. SMITH 4020 SERIES	4"					LEVELEZE COATED CAST IRON BODY WITH ADJUSTABLE HOUSING, SATIN NIKALOY TOP AND INSIDE CAULK CONNECTION.	
MINIMUM 1/4" PER FOOT. SANITARY SEWER PIPE DIAMETER 3" - 6" TO BE SLOPED AT MINIMUM 1/8" PER FOOT. MATERIALS:	DF	DRINKING FOUNTAIN	I	ELKAY LZSTLG8SC	2"	I-I/2"	2"	1/2"		ADA COMPLIANT, BI-LEVEL, FILTERED, REFRIGERATED WATER COOLER SERIES. EASY-TOUCH PUSHBAR, FLEXI-GUARD SAFETY BUBBLER, INTEGRAL DRAIN.	
SOIL, WASTE AND VENT PIPING SHALL BE PVC SCH. 40 PIPING FOR SANITARY WASTE IN LIEU OF CAST IRON WHERE ALLOWED BY AUTHORITY HAVING JURISDICTION. PIPING SHALL NOT BE EXPOSED IN PLENUMS OR THE OPEN CEILING AREA IN THE DINING ROOM, CAST IRON - HUB TYPE WITH NEOPRENE JOINTS - WITH STAINLESS STEEL CONNECTORS WHEN PVC IS NOT	GMH-I	GAS WATER HEATER	I	A.O. SMITH BT-60				3/4"	I-I/2"	GAS WATER HEATER, 60,000 BTU/HR, 55 GALLON, 58 GPH RECOVERY @ 100°F. TEMP RISE, INSTALL IN DRIP PAN, PIPE T&P FULL SIZE TO NEAREST DRAIN.	
ALLOWED PER LOCAL CODE. ALTERNATE BID ITEM CAST IRON NO HUB AND FITTINGS, WRAPPED WITH 3 MIL. PLASTIC, OR A.B.S. PIPING, BELOW SLAB OR GRADE ONLY, IF APPROVED BY LOCAL ADMINISTRATIVE AUTHORITY. INDIRECT WASTE PIPING TO BE IN COOLER/FREEZER, 3 COMPARTMENT SINK AND PREP SINK TO BE COPPER LINES FOR	EMH-I	ELECTRIC WATER HEATER	1	EEMAX SPEX3208T				3/8"	3/8"	INSTANTANEOUS ELECTRIC WATER HEATER, 3.0KW	
INDIRECT CONNECTION TO FLOOR SINK, CONDENSATE PIPING TO BE PVC. 8. PIPE SLEEVES/ESCUTCHEONS: PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADWELL, #10, 40, 6A OR	EMH-2	ELECTRIC WATER HEATER	1	EEMAX SPEX8208T ML				3/8"	3/8"	INSTANTANEOUS ELECTRIC WATER HEATER, MULTI-LAV, 8.3KW	
CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADMELL, #10, 40, 64 OR EQUIVALENT WITH SET-SCREWS. PROVIDE ESCUTCHEONS ON ALL WASTE LINES FROM PLUMBING FIXTURES, WHETHER THROUGH WALLS, FLOORS, AND WHETHER CONCEALED BEHIND COUNTERS OR EXPOSED. PIPE SLEEVES SHALL BE PROVIDED WHEN PIPES PENETRATE FOUNDATION AND SHALL BE I" LARGER THAN PIPE. SEAL SLEEVE W/CAULKING.	CP-I	RECIRCULATION PUMP	1	GRUNDFOS UP 15						GRUNDFOS MODEL UP 15, SET PUMP TO PROVIDE A MAXIMUM OF 3 GPM THRU THE SYSTEM AT 3 FT. HEAD PLUS PIPING LOSSES, 115V, 0.22 AMPS, 25 WATTS, 1/25 HP.	
9. PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON DRAWINGS WITH ALL ACCESSORIES AND TRIM AS LISTED. ALL FIXTURES SHALL BE PROTECTED THROUGH THE COURSE OF THE CONSTRUCTION. ANY FIXTURE DAMAGED SHALL BE REPLACED WITHOUT ADDITIONAL EXPENSE TO	BFP	REDUCED PRESSURE ZONE BACKFLOW PREVENTOR		WATTS LF009				2"		LEAD FREE 009 REDUCED PRESSURE ZONE BACKFLOW ASSEMBLIY DESIGNED TO PROTECT POTABLE WATER SUPPLIES IN ACCORDANCE WITH NATIONAL PLUMBING CODES AND WATER AUTHORITY REQUIREMENTS.	
IO. CONNECTION TO OTHER FIXTURES: CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS	PRV	PRESSURE REDUCING VALVE		WATTS LFU5B-Z3				2"		LEAD FREE CAST COPPER SILICON ALLOY BODY CONSTRUCTION, MAXIMUM WORKING PRESSURE: 300 PSI. ADJUSTABLE OUTLET PRESSURES BETWEEN 25-75 PSI.	

IO. CONNE CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS PIPES TO FOOD SERVICE EQUIPMENT AS INDICATED IN EQUIPMENT SPECIFICATIONS. PROVIDE BACKFLOW PROTECTION ON ICE MACHINES AND BEVERAGE EQUIPMENT SUPPLY CONNECTIONS.

DRAINAGE AND VENT PIPING - DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THUS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT. WATER PIPING - THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY. C. GAS PIPING - IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE BEFORE TESTING SYSTEM.

12. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.

MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. DEFECTIVE WORK AND ALL DAMAGES CAUSED THEREBY WHICH MAY OCCUR DURING THE TERM OF THE AFOREMENTIONED GUARANTEE WILL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.

14. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR EQUIPMENT HOUSINGS.

VERIFY SIZE, DEPTH, LOCATION AND ADEQUACY OF ALL UTILITIES, INCLUDING METER LOCATIONS AND SEWER INVERTS. BEFORE STARTING WORK ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED WHERE POSSIBLE, AND EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND TIGHT TO WALLS. ALL LINES TO BE AWAY FROM BEARING FOOTINGS, OR AS DIRECTED BY STRUCTURAL ENGINEER. 4. ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN HORIZONTAL DIRECTION OR

PER IPC 2018 TABLE 704.1 SANITARY SEWER PIPE DIAMETER 2-1/2" OR LESS TO BE SLOPED AT MINIMUM 1/4" PER FOOT. SANITARY SEWER PIPE DIAMETER 3" - 6" TO BE SLOPED AT MINIMUM 1/8" PER FOOT.

	PLUMBING	SYME	BOLS
<u> </u>	SANITARY WASTE LINE	T.P.	TRAP PR
<u> </u>	GREASE WASTE LINE	T.M.∨.	THERMOS
	VENT LINE	T.P.R.V.	TEMP. PR
G	GAS LINE	₱.0.C.	POINT OF
	COLD WATER LINE	B.F.P.	BACK FL
	HOT WATER LINE	G.I./T.	GREASE
	HOT WATER RECIRC LINE	LAV.	LAVATO
	FILTERED WATER LINE	UR.	URINAL
	SHUT-OFF VALVE	W.C.	WATER C
	BACKFLOW PREVENTER	G.R.	glass r
V.T.R.	VENT THRU ROOF	A.F.F.	ABOVE F
C.I.	CAST IRON	B.F.F.	BELOW F
C.W.	COLD WATER	M	WATER M
H.M.	HOT WATER	W.H.	WATER H
Т.М.	TEMPERED WATER	E.C.O.	EXTERIO
F.W.	FILTER WATER	F.C.O.	FLOOR C
F.S.	FLOOR SINK	W.C.O.	WALL CL
F.D.	FLOOR DRAIN	M.S.	MOP SINK
H.D.		5.5.	SCULLER
F.F.D.	FUNNEL FLOOR DRAIN	F.E.S.	FABRICA
K.F.D.	KITCHEN FLOOR DRAIN	H.S.	HAND SIN
R.F.D.	RESTROOM FLOOR DRAIN	U.B.S.	UNDER B
E.M.	ELECTRICAL METER	U.B.H.S.	UNDER B
G.M.	GAS METER	I.C.C.	ICE CREA

UMBING	FIXTURE	SCHEDULE

GENERAL NOTES

THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS.

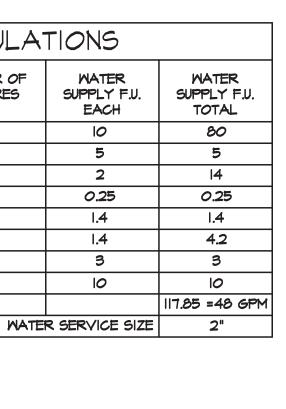
DRAINAGE FIXTURE UNITS								
PLUMBING FIXTURE	NUMBER OF FIXTURES	DRAINAGE FIXTURE UNITS	TOTAL DRAINAGE FIXTURE UNITS					
WATER CLOSET	8	4	32					
URINAL	I	2	2					
LAVATORY	٦	I	Г					
DRINKING FOUNTAIN	I	0.5	0.5					
SHOWER DRAIN	I	2	2					
FLOOR DRAIN	6	2	12					
KITCHEN SINK	З	2	6					
SERVICE SINK	I	2	2					
BAPTISTRY DRAIN	I	5	5					
TOTAL DRAIN,	TOTAL DRAINAGE UNITS FOR ALL FIXTURES 68.5 = 4" SANITARY							

TOTAL	DRAINAGE	UNITS	FOR	ALL	F

WATER C	CALCULA
PLUMBING FIXTURE	NUMBER OF FIXTURES
WATER CLOSET	8
URINAL	
LAVATORY	7
DRINKING FOUNTAIN	
SHOWER HEAD	
SINK	3
SERVICE SINK	
BAPTISTRY	
TOTAL WSFU	



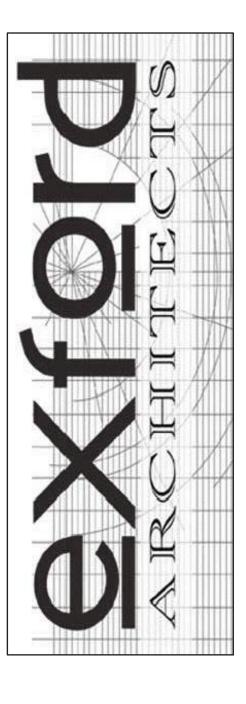
WASTE LINE	т.р.	TRAP PRIMER
NASTE LINE	T.M.∨.	THERMOSTATIC MIXING VALVE
	T.P.R.V.	TEMP. PRESSURE RELIEF VALVE
	₱₽.0.C.	POINT OF CONNECTION
TER LINE	B.F.P.	BACK FLOW PREVENTER
ER LINE	G.I./T.	GREASE INTERCEPTOR/TRAP
ER RECIRC LINE	LAV.	LAVATORY
WATER LINE	UR.	URINAL
VALVE	M.C.	WATER CLOSET
W PREVENTER	G.R.	GLASS RACK
u roof	A.F.F.	ABOVE FINISHED FLOOR
N	B.F.F.	BELOW FINISHED FLOOR
TER	M	WATER METER
R	W.H.	WATER HEATER
O WATER	E.C.O.	EXTERIOR CLEAN-OUT
ATER	F.C.O.	FLOOR CLEAN-OUT
NK	W.C.O.	WALL CLEAN-OUT
RAIN	M.S.	MOP SINK
N		SCULLERY SINK
loor drain	F.E.S.	FABRICATED ECONOMY SINK
FLOOR DRAIN	H.S.	HAND SINK
M FLOOR DRAIN	U.B.S.	UNDER BAR SINK
AL METER		UNDER BAR HAND SINK
ER	I.C.C.	ICE CREAM CABINET

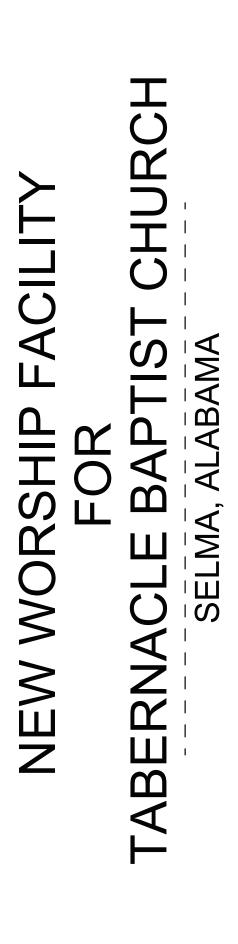


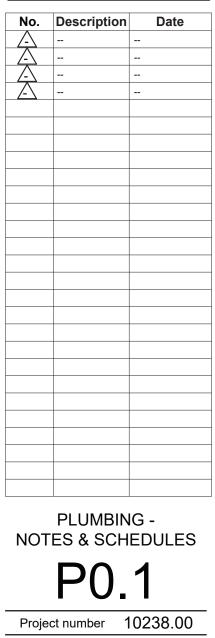
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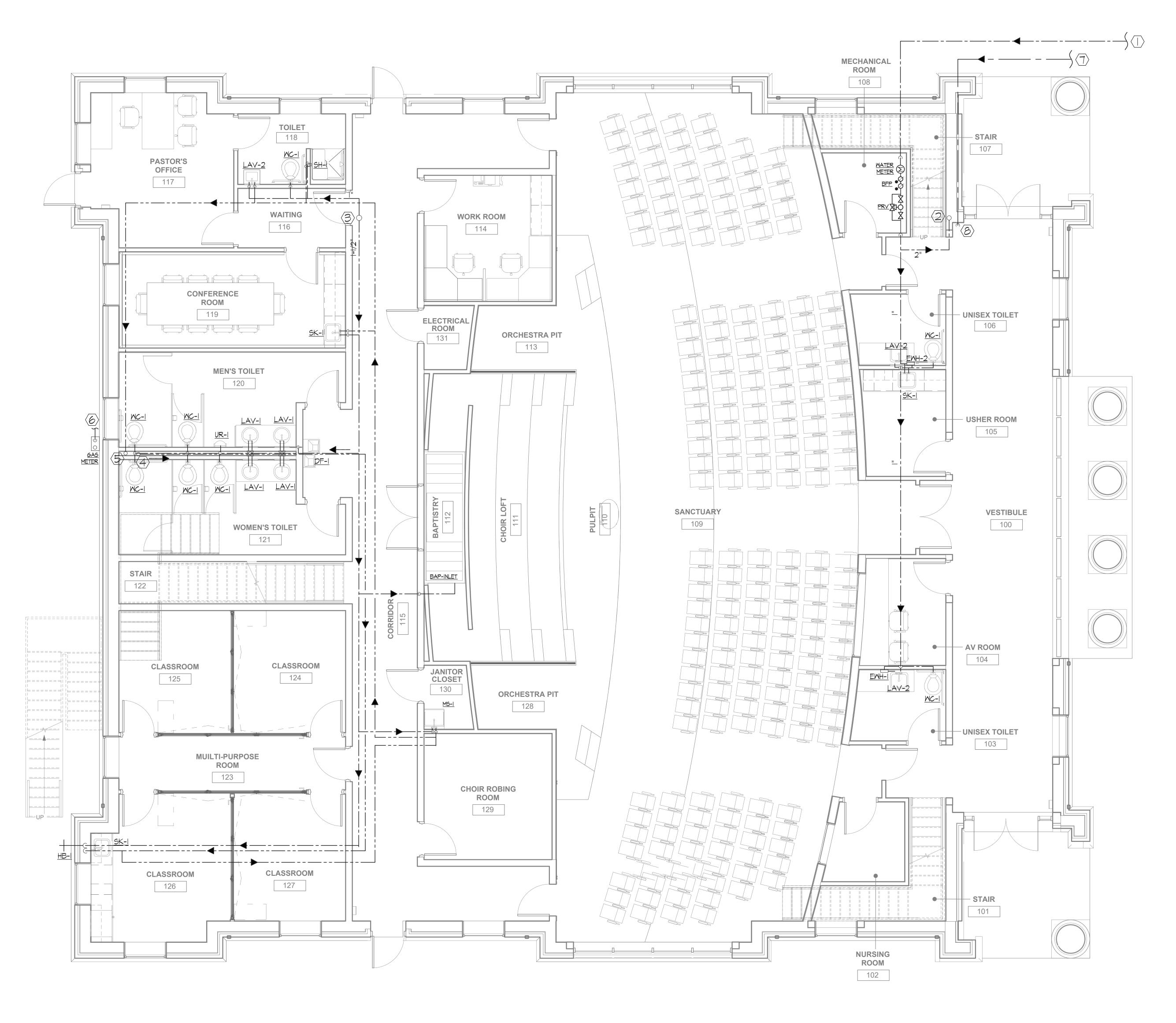




05/23/2022 Date

<u>KEYNOTES</u>

- 2" INCOMING COLD WATER FROM WATER MAIN. COORDINATE EXACT UTILITY CONNECTION LOCATION WITH CIVIL DRAWINGS.
- 2" COLD WATER UP TO BALCONY LEVEL CEILING SPACE. COORDINATE ROUTING WITH STRUCTURAL AND MECHANICAL DRAWINGS.
- 3 2"¢ COLD WATER DOWN FROM BALCONY LEVEL CEILING SPACE. COORDINATE
- ROUTING WITH STRUCTURAL AND MECHANICAL DRAWINGS.
- $\langle 4 \rangle$ I-I/2" ϕ hot water down from mechanical room 200. Route hot water pipe thru plumbing chase wall. $\langle 5 \rangle$ HOT WATER RECIRC PIPE UP TO MECHANICAL ROOM 200. ROUTE HOT WATER PIPE THRU PLUMBING CHASE WALL.
- (G) NEW GAS SERVICE LINE
- 8 SPRINKLER RISER

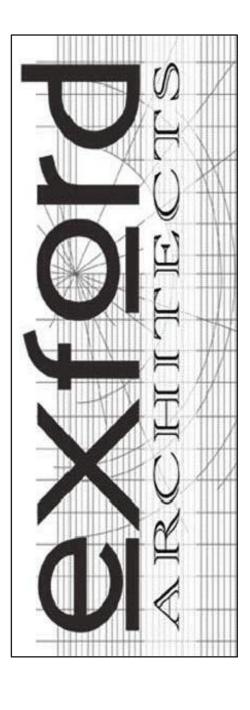


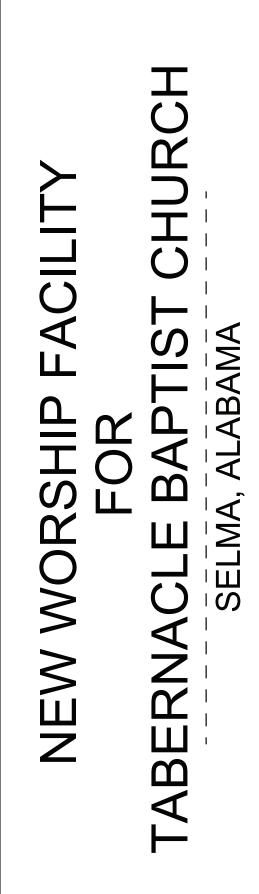
1 FIRST FLOOR PLAN - DOMESTIC WATER AND NATURAL GAS NORTH

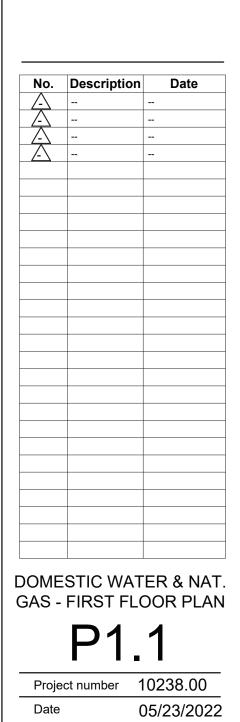








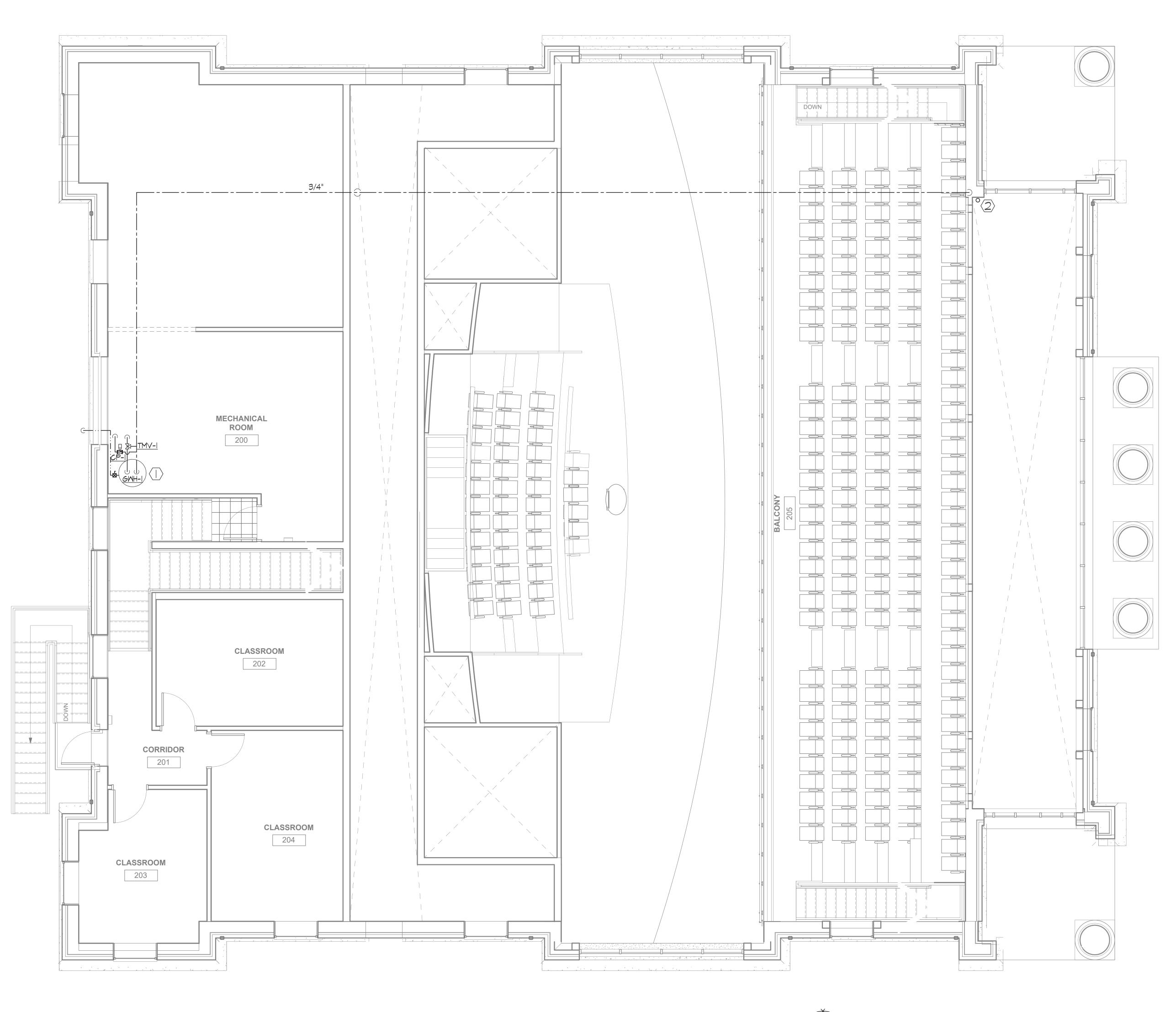




KEYNOTES

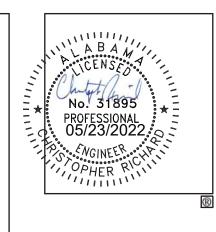
NEW GAS WATER HEATER. PIPE T&P RELIEF VALVE TO OUTSIDE AND SPILL TO SPLASH BLOCK.

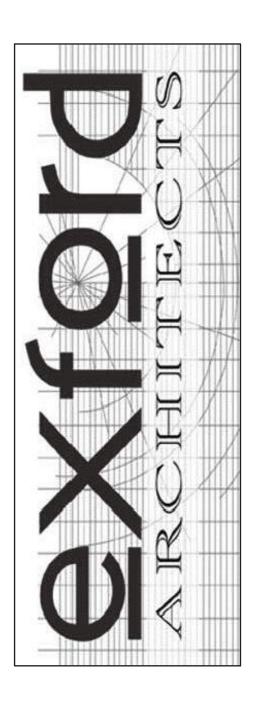
 $\langle 2 \rangle$ sprinkler riser from below

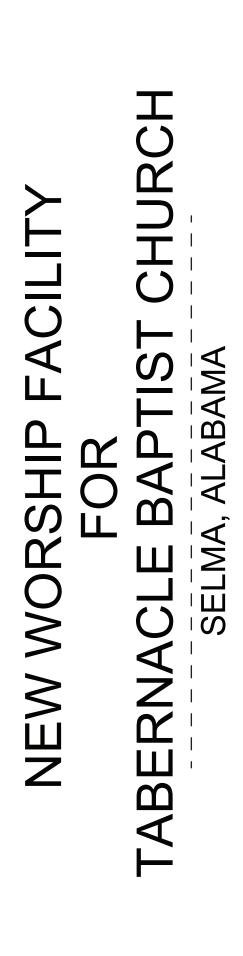


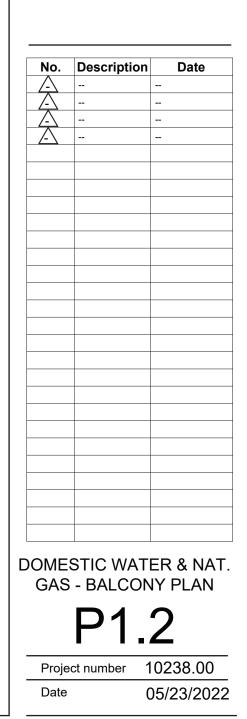
1 BALCONY PLAN - DOMESTIC WATER & NATURAL GAS

NORTH







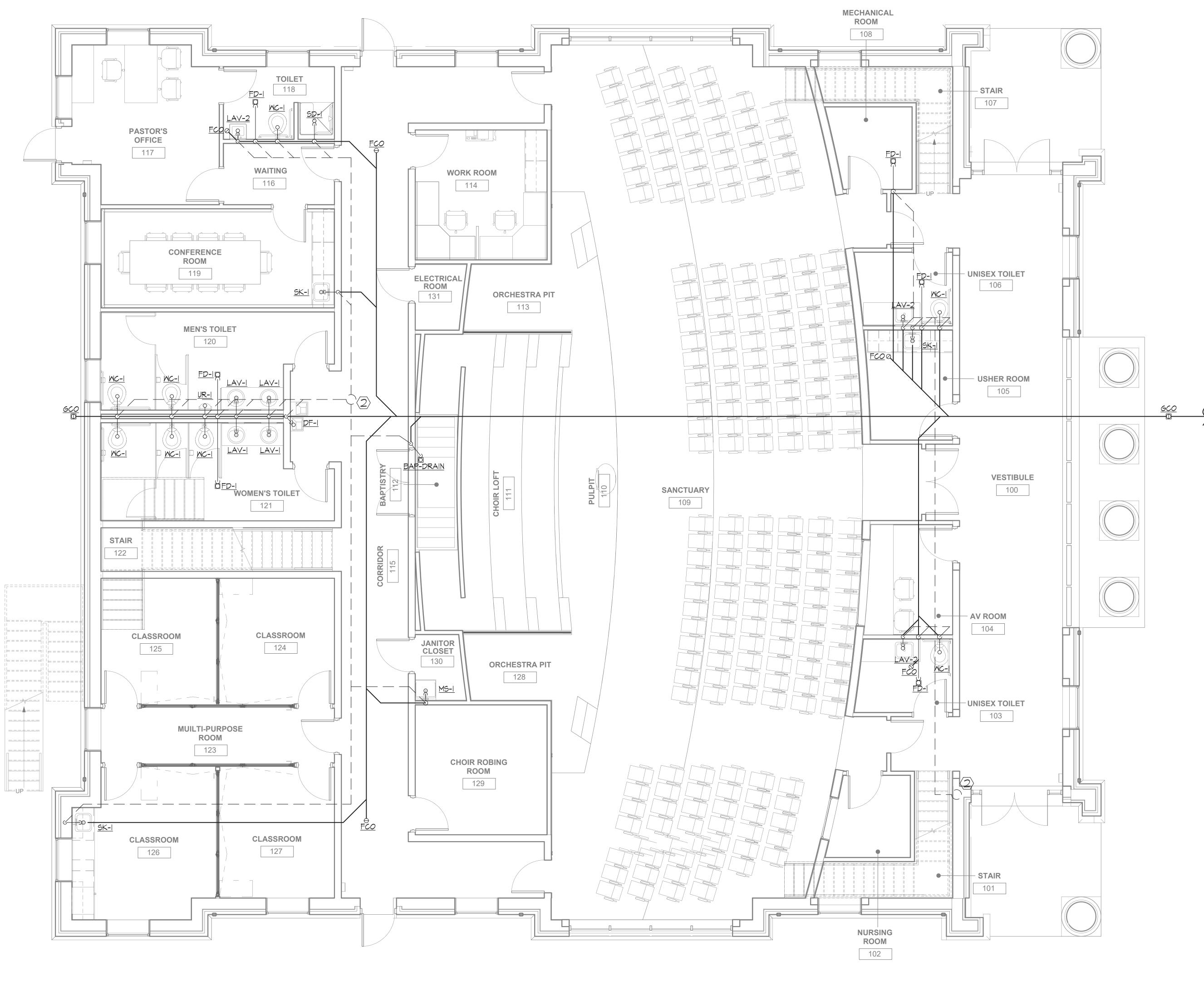




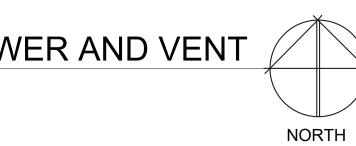
<u>KEYNOTES</u>

EXTEND AND CONNECT TO SANITARY SEWER MAIN. SEE CIVIL DRAWINGS FOR CONTINUATION.

2 PLUMBING VENT TRHU ROOF. SEE ROOF VENT TERMINATION DETAIL ON SHEET P2.1.



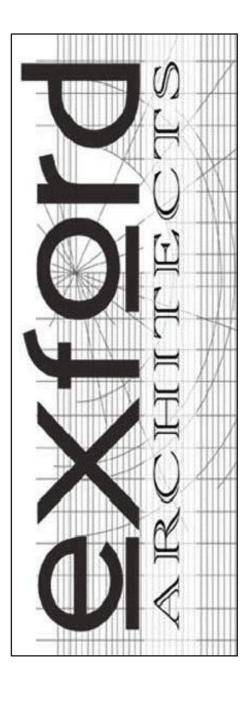
1 FIRST FLOOR PLAN - SANITARY SEWER AND VENT SCALE: 1/4" = 1'-0"





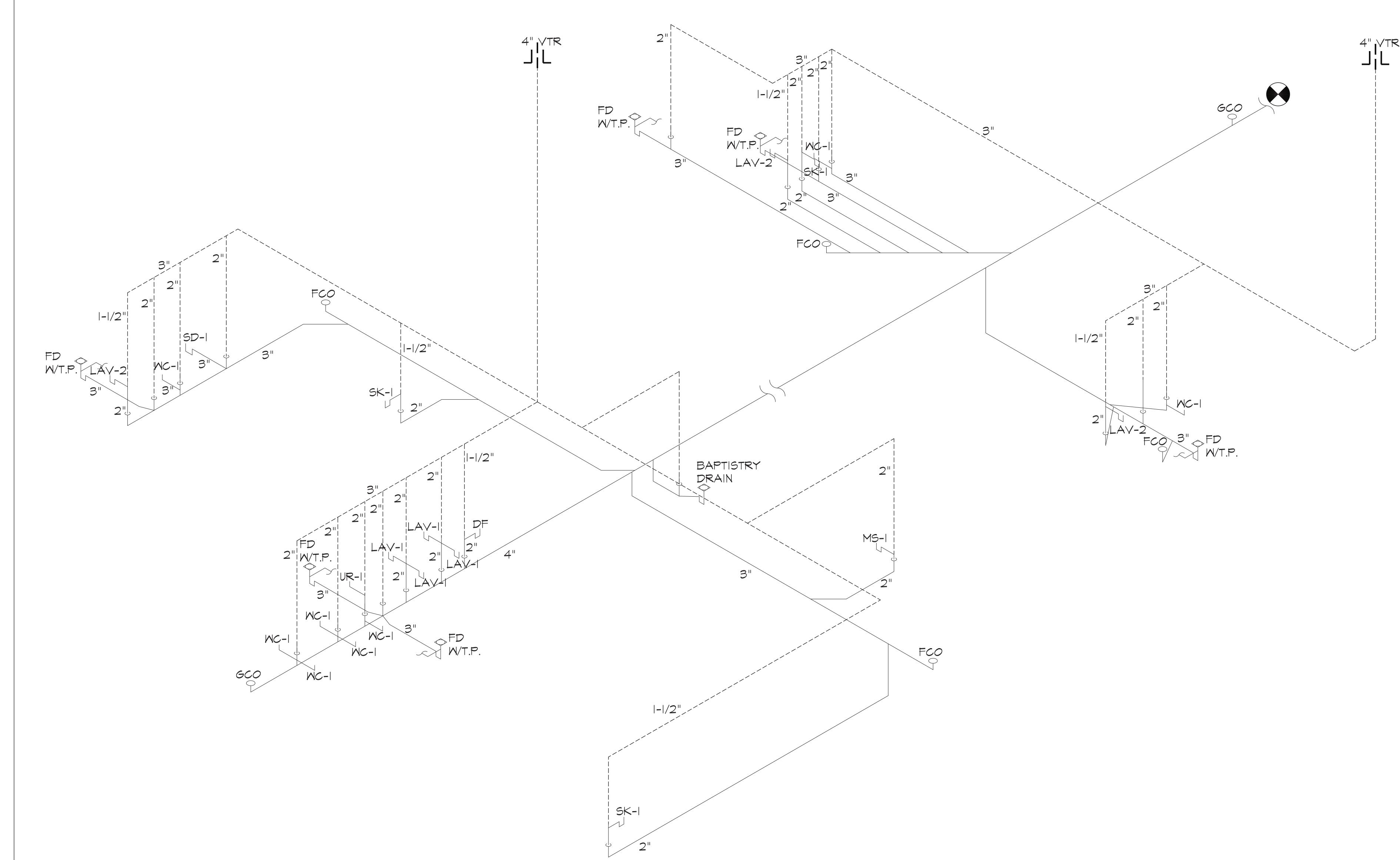


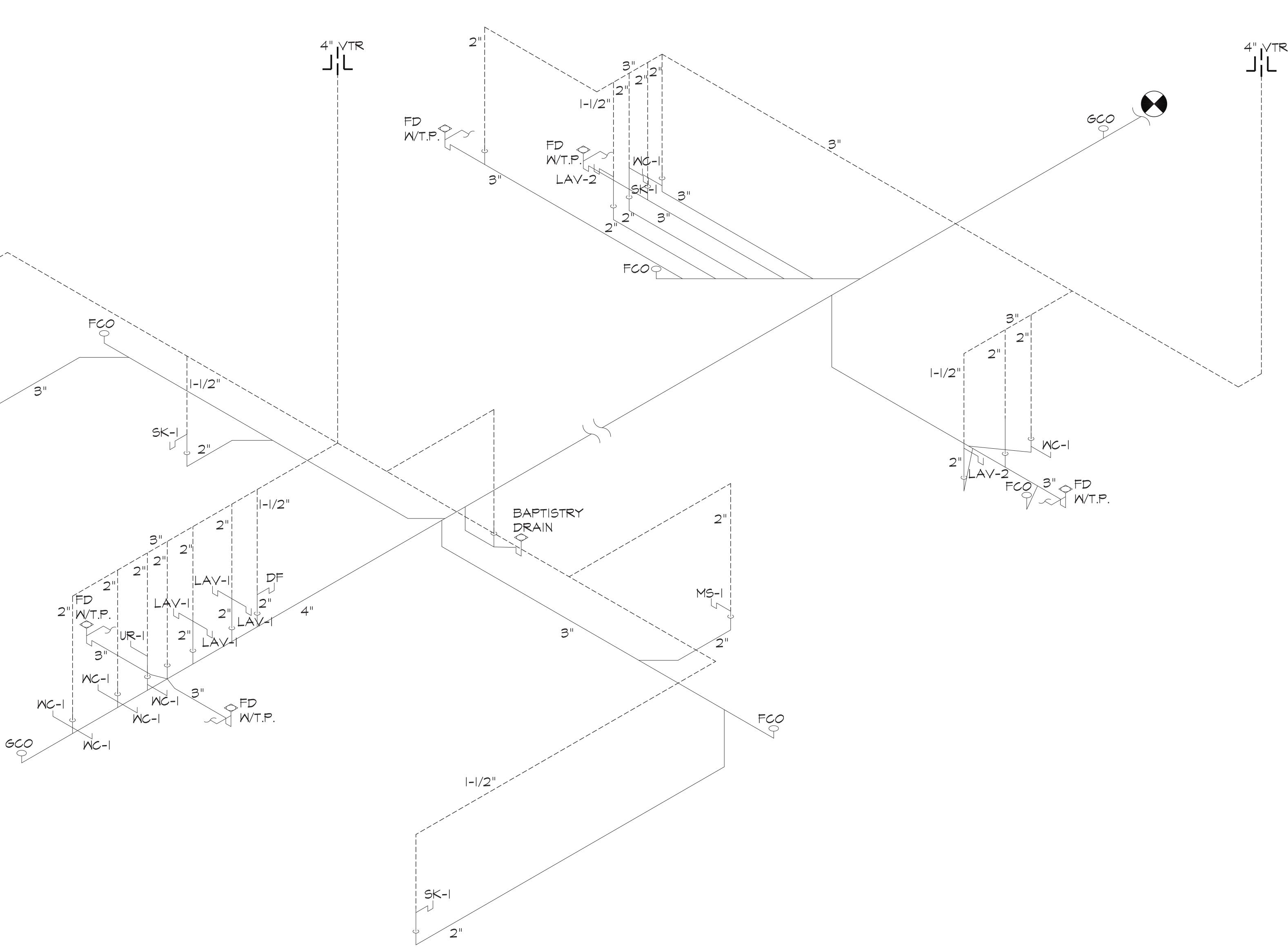








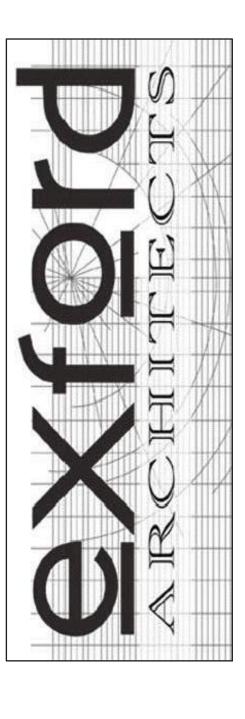


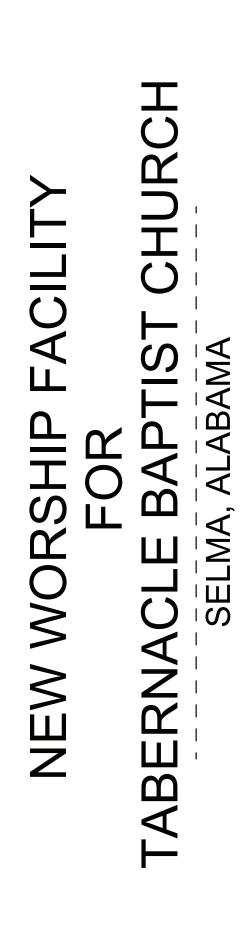


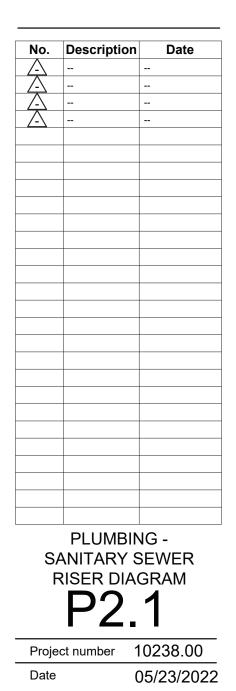


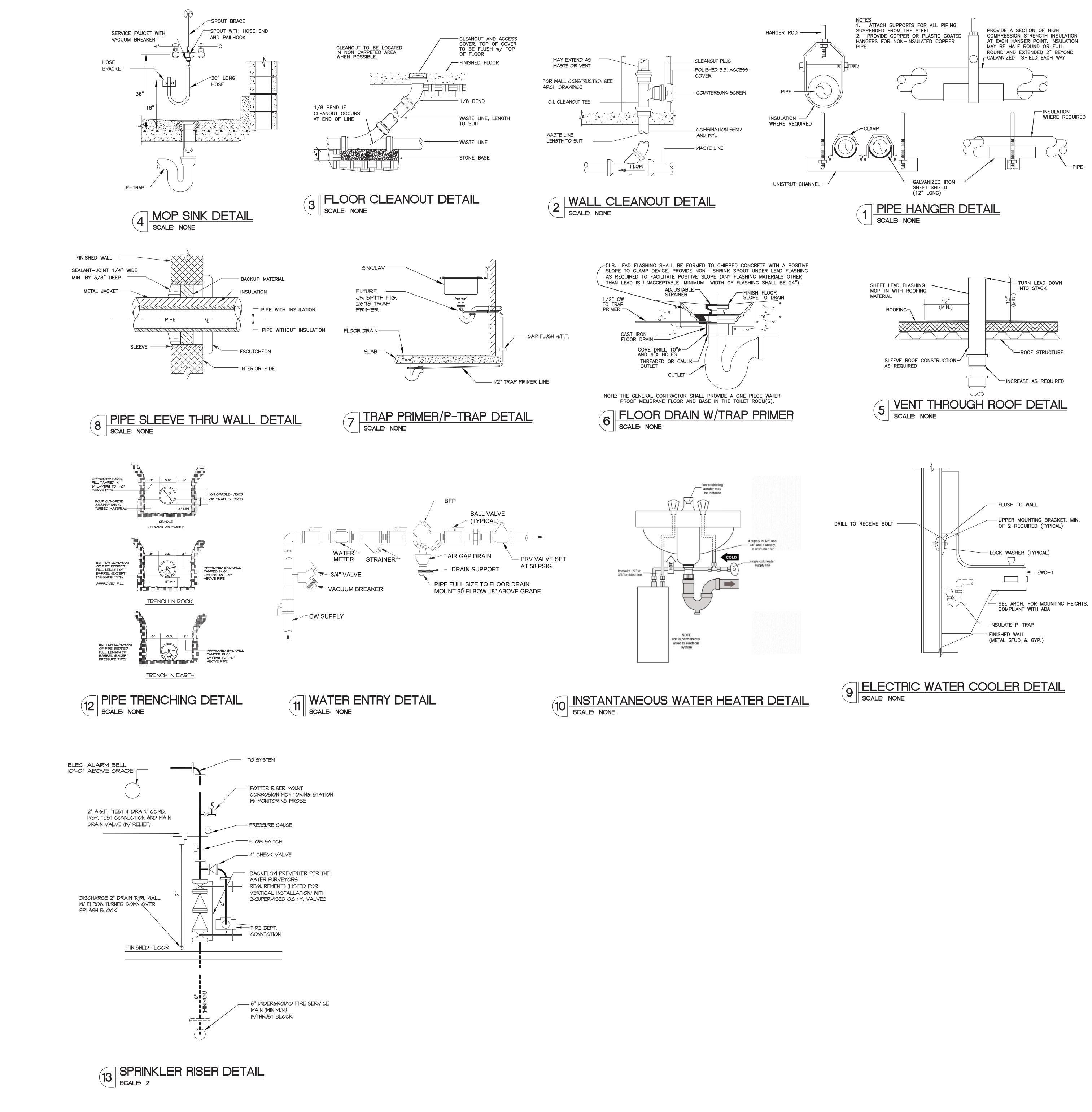








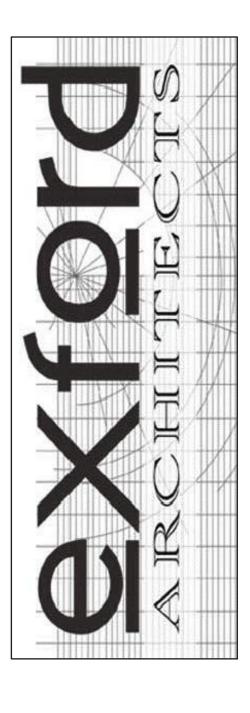




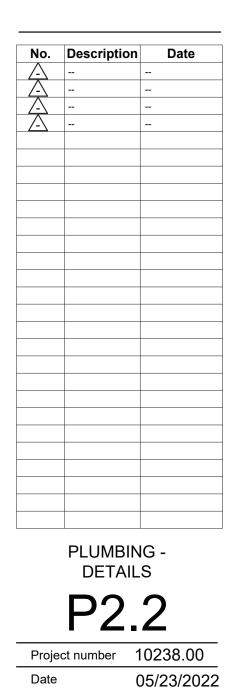












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- CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT. CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED HEREIN AND SHOWN ON THE CONTRACT DRAWINGS OUTLINE DESCRIPTION AND DIAGRAMMATIC REPRESENTATION OF SYSTEM OPERATION AND EQUIPMENT DOES NOT LIMIT CONTRACTOR LIABILITY FOR FURNISHING AND INSTALLING COMPLETE AND OPERABLE SYSTEMS. IN CASE OF ANY OBSERVED DISCREPANCIES OR OMISSIONS ON THE DRAWINGS AND/OR SPECIFICATIONS, CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH CONDITIONS PRIOR TO BID. OTHERWISE, IT WILL BE UNDERSTOOD THAT THE DRAWINGS AND SPECIFICATIONS ARE CLEAR AS TO WHAT IS INTENDED AND SHALL BE AS INDICATED BY THE ENGINEER.
- 2. CONTRACTORS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF WORK. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR EQUIPMENT, OR MATERIALS REQUIRED, OR FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
- 3. ALL WORK INSTALLED UNDER THIS CONTRACT SHALL BE IN STRICT CONFORMANCE WITH THE LATEST EDITIONS OF THE FOLLOWING CODES, AND ALL APPLICABLE STANDARDS AND REQUIREMENTS:
- NATIONAL ELECTRICAL CODE UNDERWRITERS LABORATORIES, INC.
- NATIONAL FIRE PROTECTION ASSOCIATION
- AMERICANS WITH DISABILITIES ACT • ALL APPLICABLE STATE, COUNTY, AND LOCAL CODES ALL LOCAL JURISDICTION UTILITY CODES
- 3. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE THE PAYMENT OF ALL NECESSARY PERMITS, FEE INSPECTIONS AND TESTING. FURNISH THE OWNER PRIOR TO THE FINAL PAYMENT A CERTIFICATE FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION CERTIFYING THAT THE ELECTRICAL WORK MEETS ALL REQUIREMENTS OF THE LOCAL INSPECTION AUTHORITIES AND/OR THE NATIONAL BOARD OF FIRE UNDERWRITERS.
- 4. IN CASES OF DOUBT AS TO THE WORK INTENDED, OR IN THE EVENT OF NEED FOR EXPLANATION THEREOF, THE CONTRACTOR SHALL REQUEST SUPPLEMENTARY INSTRUCTIONS FROM THE ENGINEER. NO CHANGES ARE TO BE MADE TO THE WORK OF THIS CONTRACT WITHOUT PRIOR KNOWLEDGE AND APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL HOLD THE OWNER AND ITS CONSULTANTS HARMLESS AGAINST ALL CLAIMS AND JUDGMENTS ARISING OUT OF THE CONTRACTORS PERFORMANCE OF THE WORK OF THIS CONTRACT. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK, WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT, WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. FAILURE TO OBTAIN SUCH AUTHORIZATION SHALL INVALIDATE ANY CLAIM FOR EXTRA COMPENSATION.
- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK AND EQUIPMENT SPECIFIED HEREIN WITH THE WORK TO BE PERFORMED AND EQUIPMENT TO BE FURNISHED BY OTHERS TO ASSURE ALL TRADES CAN INSTALL THEIR WORK A COMPLETE AND SATISFACTORY INSTALLATION MEETING WITH THE APPROVAL OF THE ENGINEER. PERMIT ACCESS WITH THE AFORE MENTIONED REQUIREMENTS SHALL BE RELOCATED WITHOUT INCURRING ADDITION TO THE CONTRACT.
- 6. THE CONTRACTOR SHALL SUBMIT A LIST OF ELECTRICAL MATERIAL MANUFACTURERS TO THE OWNER/ENGINEER FOR APPROVAL, PRIOR TO ORDERING AND/OR INSTALLATION. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT PERMISSION OF THE ENGINEER IN WRITING. THE COST OF ANY REDESIGNING CAUSED BY UNAUTHORIZED SUBSTITUTION SHALL BE ASSUMED BY THE CONTRACTOR.
- 7. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR ALL SCHEDULING OF WORK.
- 8. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
- 9. THE CONTRACTOR SHALL KEEP THE WORK SITE AND SURROUNDING AREA FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH GENERATED BY WORK FROM THIS CONTRACT. CONTRACTOR SHALL PROPERLY AND LEGALLY DISPOSE OF ALL MATERIALS. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT BUILDING OCCUPANTS AND CONTENTS, AND PREVENT THE SPREAD OF DUST AND DIRT INTO OCCUPIED AREAS.
- IO. THE CONTRACTOR SHALL BE AWARE OF ALL FLASH HAZARD REQUIREMENTS FOR THIS PROJECT. PROTECTIVE EQUIPMENT SHALL BE WORN, WHERE APPLICABLE, AND PRACTICES SHALL BE FOLLOWED IN ACCORDANCE WITH FLASH HAZARD LEVEL.
- II. THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES WHERE REQUIRED FOR INACCESSIBLE CEILINGS, WALLS, FLOORS, ETC.
- 12. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- 13. ALL JOB SITE SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.
- 14. ALL SYSTEMS SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, ALL LOCAL CODES, AND EQUIPMENT AS REQUIRED. PROVIDE EQUIPMENT GROUNDING CONDUCTORS FOR ALL FEEDERS AND CIRCUITS.
- 15. THE CONTRACTOR SHALL PROVIDE SUBMITTALS INCORPORATING PRODUCT DATA (CATALOG CUTS) AND SHOP DRAWINGS FOR APPROVAL OF ALL MATERIAL TO BE USED ON THIS PROJECT. PRODUCT DATA/SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS TO INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING AS APPLICABLE FOR THE PROJECT: CONDUCTORS, CABLES, CONDUIT, CONDUIT FITTINGS, CONDUIT BODIES, SUPPORT HARDWARE, DEVICE BOXES, DEVICE COVERS, JUNCTION BOXES, PULL BOXES, ENCLOSURES, SAFETY SWITCHES, FUSES, CIRCUIT BREAKERS, PANELBOARDS, MOTOR CONTROLS, WIRING DEVICES, LIGHTING FIXTURES, IDENTIFICATION LABELS, ETC. PRIOR TO SUBMITTING, CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR COMPLIANCE WITH CONTRACT DOCUMENTS, CONFLICTS WITH OTHER TRADES, AND CONSTRUCTABILITY. CONTRACTOR SHALL IDENTIFY ANY DEVIATIONS IN SUBMITTALS FROM CONTRACT DOCUMENTS. ENGINEER'S REVIEW OF SUBMITTALS DOES NOT INCLUDE REVIEW OF DIMENSIONS, DETAILS, OR QUANTITIES. REVIEW DOES NOT WAIVE ANY REQUIREMENTS OF CONTRACT DOCUMENTS, INCLUDING REQUIREMENT TO PROVIDE A COMPLETE AND FUNCTIONAL SYSTEM.
- 16. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UL OR ETL LISTED AND SHALL CONFORM TO FACTORY MUTUAL STANDARDS AS APPLICABLE.

- INSTALLED.

- AGENCY
- PER N.E.C. REQUIREMENTS.
- SPECIFICATIONS.

- SUITABLE FOR THIS USE.

- ARCHITECT/OWNER.
- WORKING ORDER.

- #12 AMG 120 VOLT (20A) 100FT

ELECTRICAL GENERAL NOTES

17. CONDUIT, FITTINGS, AND JUNCTION BOXES SHALL BE SUITABLE FOR THE AREA CLASSIFICATION IN WHICH THEY ARE TO BE

18. PROVIDE THREE (3) COPIES OF OPERATION AND MAINTENANCE (O&M) MANUALS FOR ALL NEW EQUIPMENT AND DEVICES INSTALLED AS PART OF THIS WORK. MANUALS SHALL INCLUDE THE FOLLOWING ITEMS BOUND IN A SUBSTANTIAL BINDER:

 SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE

• O & M MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED

• SPARE PARTS LISTS FOR ALL EQUIPMENT

• NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE

18. WHEN MOUNTING ELECTRICAL WORK IN AREAS SUBJECT TO PEDESTRIAN TRAFFIC, CONTRACTOR SHALL MAINTAIN EXISTING HEADROOM CLEARANCES. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SUPPORTS AND HARDWARE FOR MOUNTING OF ELECTRICAL EQUIPMENT INCLUDED IN THIS PROJECT. MOUNTING HEIGHTS AND RESTRICTIONS SHALL BE

19. ALL WIRING SHALL BE INSTALLED PER PROJECT

20. ALL WIRING SHALL BE IN CONDUIT UNLESS OTHERWISE NOTED MINIMUM SIZE SHALL BE #12 AWG INCLUDING CONTROL WIRING AND SHALL BE RATED AT 600V OR GREATER. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #10 AND SMALLER MAY BE SOLID; ALL THOSE #8 AND LARGER TO BE STRANDED. REFER TO ELECTRICAL SPECIFICATION FOR ALL OTHER REQUIREMENTS.

21. ALL UNDERGROUND RACEWAYS SHALL BE MINIMUM 3/4", GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, KOPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE. RIGID STEEL SHALL ALSO BE USED WHEN CONDUIT IS EXPOSED TO EXTERIOR ENVIRONMENT SUCH AS EXTERIOR OF BUILDING OR WHERE IT IS EXPOSED AND SUBJECT TO DAMAGE, INSIDE OF BUILDING.

22. ALL UNDERGROUND SERVICE CONDUITS/RACEWAYS ENTERING BUILDING OR STRUCTURE FROM OUTSIDE TO INSIDE SHALL BE SEALED, INCLUDING SPARE CONDUITS. SEALANT SHALL BE

23. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.

24. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION PROOF, ETC.). ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS OR LESS SHALL BE CLASS RKI, TYPICAL UNLESS OTHERWISE NOTED. FUSES OVER 600 AMPS SHALL BE CLASS L

25. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER BASED ON LEVITON. HOWEVER, COMPARABLE DEVICES BY PASS \$ SEYMOUR, BRYANT, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE DICTATED BY

26. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT BE PLACED IN PROPER

27. A SEPARATE, GREEN TYPE THW COPPER GROUND CONDUCTOR SHALL BE RUN FROM GROUND LUG OF EACH GROUNDED RECEPTACLE TO AN APPROVED CONNECTION INSIDE THE ENCLOSING STEEL OUTLET BOX. DEVICE MOUNTING SCREWS SHALL NOT BE CONSIDERED AN APPROVED GROUND.

28. A SEPARATE GROUND CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH TABLE 250-122 OF THE N.E.C. CONTRACTOR SHALL SIZE CONDUIT TO ACCOMMODATE ADDITIONAL CONDUCTOR.

29. GROUND RODS TO BE 5/8" DIAMETER, TEN (10) FEET LONG COPPERCLAD STEEL. OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE AS READ WITH AN OHM METER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITIONAL RODS, UNTIL TWENTY FIVE (25) HAS BEEN OBTAINED.

30. UNLESS OTHERWISE NOTED CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% FOR BRANCH CIRCUITS AND 2% AT FEEDER CIRCUITS AT THE FARTHEST POINT. HOMERUN BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FROM THE PANELBOARD TO THE FIRST OUTLET IN ACCORDANCE WITH THE FOLLOWING MAXIMUM CIRCUIT LIMITS, USING CENTER OF LOAD SERVED AS BASIS FOR COMPUTING CIRCUIT LENGTHS:

> #IO AMG 120 VOLT (20A) 165FT

31. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.

32. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.

33. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.

34. THE DISCONNECT SWITCH, FUSE SIZES, CONDUIT AND WIRE SHOWN FOR ALL HVAC ARE SIZED PER THE MANUFACTURER, AND MODEL NUMBER LISTED ON THE MECHANICAL PLANS. IF THERE IS AN EQUAL MANUFACTURER, OR OTHER MANUFACTURER PROVIDED, THE MECHANICAL/ GENERAL CONTRACTOR SHALL BEAR ANY ADDITIONAL COST INCURRED IF THE ELECTRICAL IS NOT EQUAL TO SPECIFICATIONS.

- 35. PROVIDE AUXILIARY AND RELAYS TO INTERLOCK MECHANICAL EQUIPMENT AS REQUIRED, REFER TO MECHANICAL SCHEDULES FOR SEQUENCE INFORMATION.
- 36. ALL SWITCHGEAR, PANELS, STARTERS, CONTACTORS ETC. SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER, THE SYSTEM DESIGN IS BASED ON SQUARE "D"; HOWEVER, COMPARABLE EQUIPMENT BY SIEMENS, G.E. AND CUTLER HAMMER ONLY WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED.
- 37. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED TO INSIDE SURFACE OF EACH PANELBOARD DOOR, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CIRCUIT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED
- 38. ENGRAVED, LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL PANELS AND SWITCHGEAR. PLATES SHALL BE AFFIXED TO FRONT OF PANELS, INDICATING PANEL NAME, VOLTAGE AND AMPERAGE.
- 39. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS WHERE SUBJECT TO POSSIBLE DAMAGE
- 40. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL POWER COMPANY AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANY'S RESPONSIBILITIES TO MEET THE OWNER'S SCHEDULE.
- 41. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY, EMT, IMC, RIGID GALVANIZED CONDUIT OR SCHEDULE 40 P.V.C. TYPE 'NM', 'MC', ELECTRICAL NON-METALLIC TUBING, & FLEXIBLE METAL CONDUIT MAY BE USED FOR BRANCH CIRCUITING AS ALLOWED BY THE N.E.C. \$ AHJ. MAXIMUM NUMBER OF 120V CIRCUITS ALLOWED IN A COMMON CONDUIT SHALL BE SIX (6). THE CONTRACTOR SHALL STRICTLY CONFORM TO THE N.E.C. REQUIREMENTS OF DERATING FOR CONDUCTOR AMPACITY AND CONDUIT FILL. NO CONDUITS SHALL BE INSTALLED, EXPOSED ON ROOF.
- 42. ALL ELECTRICAL WORK SHALL BE CONCEALED IN ALL FINISHED AREAS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONDUIT MAY BE EXPOSED ON SURFACE OF MASONRY BRICK OR CONCRETE WALLS AND WITHIN MECHANICAL AND/OR ELECTRICAL ROOMS AND CLOSETS.
- 43. CONDUCTORS FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:

208V SYSTEM PHASE A - BLACK PHASE B - RED PHASE C - BLUE NEUTRAL - WHITE GRD.CON - GREEN

PHASE SEQUENCE ABC, TOP TO BOTTOM LEFT TO RIGHT FRONT TO BACK

- 44. WHEN MAIN ELECTRICAL SERVICE HAS A WIREWAY, E.C. SHALL TAP OFF OF <u>ALL SERVICE ENTRANCE FEEDERS</u> (PARALLEL CONDUCTORS) FOR TOTAL AMPACITY & BALANCING.
- 45. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS. CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
- 46. CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTALS FOR LIGHT FIXTURES, WIRING DEVICES, EMERGENCY GENERATOR/TRANSFER EQUIPMENT, SWITCHGEAR AND ALL SYSTEMS (FIRE ALARM, SECURITY, ETC.) PROVIDE TWO (2) COPIES, TEN (10) DAYS PRIOR TO BID DATE FOR ENGINEER'S APPROVAL TO SUBMIT. ENGINEER'S APPROVAL OF THE PRIOR APPROVAL PACKAGE WILL BE CONSIDERED PRELIMINARY. FINAL APPROVAL WILL BE CONTINGENT UPON REVIEW OF FINAL SHOP DRAWINGS. ALL PROPOSED ALTERNATES MUST BE INDUSTRY STANDARD EQUALS TO THE ITEMS SPECIFIED AS THE BASIS OF DESIGN; HOWEVER, IF THE ITEMS ARE NOT CONSIDERED EQUAL BY THE ENGINEER, IT SHALL BE DISAPPROVED FOR FINAL SUBMITTAL. IF ELECTRICAL CONTRACTOR/GENERAL CONTRACTOR DOES NOT SUBMIT SHOP DRAWINGS TO ELECTRICAL ENGINEER FOR ITEMS LISTED ABOVE, ELECTRICAL ENGINEER WILL NOT BE RESPONSIBLE FOR ANY, AND OR OMISSIONS OR ERRORS DUE TO SHOP DRAWINGS NOT SUBMITTED. SHOP DRAWINGS WILL ONLY BE REVIEWED TWICE AS PART OF THIS CONTRACT.
- 47. CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPARATE FROM AND IN ADDITION TO CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF TO GREEN EQUIPMENT, DEVICE, CONDUIT AND WIRE IS TO MARKED WHEN INSTALLED. USE TO INDICATE FIELD CHANGES. RED INDICATE INSTALLATION AS SHOWN ON DRAWINGS AND USE UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF THE ARCHITECT.
- 48. THE OWNER RESERVES THE RIGHT TO REVISE THE DRAWING FROM TIME TO TIME TO INDICATE CHANGES IN THE WORK. WHEN REVISED DRAWINGS AND/OR ANY REVISIONS ARE ISSUED, THE CONTRACTOR SHALL EVALUATE THE CHANGES PROMPTLY. BEFORE INSTALLATION OF ANY ITEM OR PERFORMANCE THE WORK INDICATED BY THE REVISED DRAWINGS OR REVISIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IN WRITING THAT THE REVISED DRAWINGS INVOLVE AN AN ADDITION OR DEDUCTION OF A SPECIFIC AMOUNT OF MONEY TO THE CONTRACT PRICE. THE CONTRACTOR SHALL NOT PROCEED WITH THE REVISED WORK MITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER OF THE COST OF THE REVISED WORK.
- 49. IF ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER/ARCHITECT/OWNER IMMEDIATELY. ANY ELECTRICAL CHANGES TO THE CONTRACT DOCUMENTS BY ANY CONTRACTOR PROCEEDS WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER/ARCHITECT/OWNER WILL NOT BE COMPENSATED.
- 50. SHOULD A DISCREPANCY EXIST BETWEEN THESE DRAWING NOTES AND THE SPECIFICATIONS THE SPECIFICATION SHALL TAKE PRIORITY AND/OR THE CONTRACTOR BRING ANY DISCREPANCY'S TO THE ENGINEERS ATTENTION FOR CLARIFICATION.
- 51. WHERE BRANCH CIRCUIT HOMERUNS ARE NOT SHOWN, THE CONTRACTOR MAY COMBINE CIRCUITS IN ACCORDANCE WITH THE NEC AS FOLLOWS:
- ALL SINGLE PHASE CIRCUITS SHALL HAVE A DEDICATED NEUTRAL
- MAXIMUM OF THREE 20A, I-POLE BRANCH CIRCUITS MAY BE COMBINED IN A COMMON HOMERUN FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY
- ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE SEPARATELY HOMERUN TO PANEL

52. THE CONTRACTOR SHALL PROVIDE IDENTIFICATION LABELING OF CIRCUITS, WIRING DEVICES, CONDUIT AND CONDUCTORS AS FOLLOWS:

- THE CONTRACTOR SHALL PROVIDE NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELS INVOLVED IN THE PROJECT INCLUDING EXISTING PANELS
- ALL INDIVIDUAL CONDUCTORS WITHIN PULL BOXES, JUNCTION BOXES AND AT POINTS OF USE SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBERS. CONDUCTORS SHALL BE IDENTIFIED VIA HEAT SHRINK IDENTIFICATION LABELS. COLOR CODE SHALL FOLLOW N.E.C. AND STANDARD U.S. CONVENTIONS
- ALL PULL BOXES AND JUNCTION BOXES ENCLOSING FEEDERS, SUB-FEEDERS AND BRANCH CIRCUITS SHALL IDENTIFY THE CIRCUITS WITHIN BY PANEL AND CIRCUIT NUMBERS. IDENTIFICATION SHALL BE ACCOMPLISHED VIA 1/4 INCH "P-TOUCH" (CLEAR W/ BLACK) LABELS AFFIXED TO COVERPLATES
- ALL WIRING DEVICES (RECEPTACLES, TOGGLE SWITCHES, ETC.) AFFECTED BY THIS PROJECT SHALL HAVE 1/4 INCH "P-TOUCH" (CLEAR W/BLACK) LABELS AFFIXED TO COVER PLATES. CONNECTED BRANCH CIRCUITS SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBERS
- ALL EMERGENCY EGRESS LIGHTING SHALL HAVE 1/4 INCH "P-TOUCH" (WHITE W/RED) LABELS THAT READ "EMER"
- ALL PANELBOARDS, SAFETY SWITCHES, MOTOR CONTROLS CONTROL CABINETS, ETC. SHALL HAVE BLACK LAMINATED PLASTIC IDENTIFICATION PLATES WITH WHITE LETTERS INDICATING VOLTAGE CONTAINED WITHIN, EQUIPMENT SERVED AND POWER SOURCE (PANEL AND CIRCUIT NUMBER) REFER TO EXAMPLES AS LISTED BELOW:

SAFETY SWITCH CU-I 208√, 3 Ø

FED FROM PPI-1,3,5

PANELBOARD: PANEL "PPA" 120/208V, 3 Ø, 4M

FED VIA METER "X" IN ELEC. RM

53. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LIGHT FIXTURE LOCATIONS AND THE MECHANICAL DRAWINGS FOR EXACT MECHANICAL EQUIPMENT LOCATIONS. LOCATIONS OF ALL ELECTRICAL EQUIPMENT # CONDUIT ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS TO BE DETERMINED IN FIELD BY CONTRACTOR. WHEREVER POSSIBLE, THE CONTRACTOR SHALL OBTAIN ACTUAL ROUGH-IN DRAWINGS FOR THE ACTUAL ITEM OF EQUIPMENT TO BE INSTALLED PRIOR TO ROUGH-IN. THIS SHALL APPLY TO ALL EQUIPMENT, WHETHER IT IS TO BE INSTALLED BY THE CONTRACTOR OR BY THE OWNER.

54. THE ELECTRICAL CONTRACTOR SHALL CONFIRM WIRE SIZING AND DEVICES NOTED ON THESE PLANS FOR ALL MECHANICAL EQUIPMENT WITH THE MANUFACTURER'S NAMEPLATE REQUIREMENTS PRIOR TO INSTALLATION.

55. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FORM THE LOCAL UTILITY. ALL COORDINATION AND SCHEDULING WITH THE UTILITY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL SERVICE FEES CHARGED BY THE UTILITY. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS AND WORK AS REQUIRED BY THE UTILITY FOR COMPLETE AND FUNCTIONAL ELECTRICAL SERVICES. ALL COSTS ASSOCIATED WITH THE PROVISION FOR THE SERVICES ARE TO BE INCLUDED IN THE CONTRACTOR 'S BID PRICE.

56. ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE LOCAL UTILITY COMPANIES, CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION

57. ARRANGE CONDUIT, WIRING, EQUIPMENT AND OTHER WORK GENERALLY AS SHOWN, PROVIDING PROPER CLEARANCE AND ACCESS. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND COORDINATE THE WORK WITH ALL TRADES. WHERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE.

58. THE ENTIRE ELECTRICAL INSTALLATION, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL REPAIR AND MAKE GOOD AT THEIR OWN EXPENSE ANY AND ALL DEFECTS TO INCLUDE REPLACEMENT OR REPAIRS OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY. IF IN THE JUDGMENT OF THE ENGINEER, SUCH DEFECTS ARISE FROM DEFECTIVE WORKMANSHIP AND/OR IMPERFECT OR INFERIOR MATERIAL.

59. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE OWNER, ALL SYSTEMS SHALL BE TESTED AND OPERATED TO DEMONSTRATE TO THE OWNER'S REPRESENTATIVE THAT THE INSTALLATION AND PERFORMANCE OF THESE SYSTEMS AND/OR PARTS THEREOF CONFORM TO THE DESIGN INTENT.

60. UNLESS OTHERWISE INDICATED, ALL HVAC STARTERS, CONTROL DEVICES, CONTROL WIRING AND CONTROL CONDUIT SHALL BE PROVIDED AS REQUIRED UNDER DIVISION 23. ALTHOUGH THEY MAY NOT BE SHOWN ON THE MECHANICAL OR ELECTRICAL DRAWINGS. BRANCH CIRCUIT BREAKERS, POWER WIRING, POWER CONDUIT AND THE LOCAL DISCONNECTING MEANS SHALL BE PROVIDED UNDER DIVISION 26. PROVIDE "HACR" TYPE CIRCUIT BREAKERS FOR ALL CIRCUITS SUPPLYING HVAC EQUIPMENT. CIRCUIT BREAKER, WIRING AND CONDUIT SIZES INDICATED ON THE ELECTRICAL DRAWINGS ARE BASED ON SPECIFIC MECHANICAL EQUIPMENT DESIGN SELECTIONS. WHEN THE ACTUAL MECHANICAL EQUIPMENT SUPPLIED HAS DIFFERENT ELECTRICAL REQUIREMENTS, THE DIVISION 23 AND DIVISION 26 INSTALLERS MUST COORDINATE ANY REQUIRED CHANGES. ALL CIRCUIT BREAKERS SERVING HVAC EQUIPMENT SHALL BE HACR RATED. WHEN THE MECHANICAL EQUIPMENT MANUFACTURER REQUIRES FUSE-ONLY PROTECTION, THE LOCAL DISCONNECTING MEANS SHALL BE A FUSED DISCONNECT, FUSED AS PER THE RECOMMENDATION OF THE MANUFACTURER. WHEN DISCONNECTS ARE SHIPPED LOOSE WITH THE MECHANICAL EQUIPMENT, THEY SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL COORDINATION BETWEEN THE DIVISION 23 AND DIVISION 26 INSTALLERS SHALL BE FINALIZED PRIOR TO BID - ALL REQUIRED CHANGES SHALL BE AT NO ADDITIONAL COST TO THE OWNER

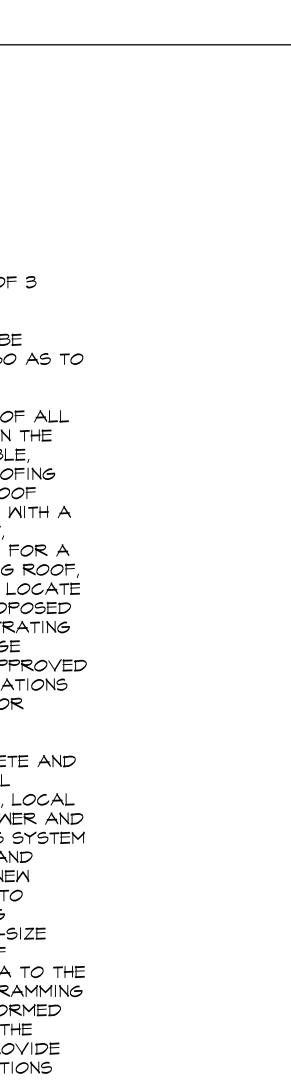
61. SEALING FITTINGS AND APPROVED SEALING COMPOUND SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. SEAL AROUND ALL CONDUIT PENETRATIONS OF FIRE-RATED WALLS WITH AN APPROVED SEALANT.

62. ALL PENETRATIONS THROUGH FLOORS OR WALLS SHALL BE CORE-DRILLED. THE USE OF JACK HAMMERS SHALL NOT BE PERMITTED. MAXIMUM HOLE DIAMETERS SHALL NOT EXCEED 6 INCHES. ALL HOLES SHALL BE SPACED AT LEAST 18 INCHES APART IN ALL DIRECTIONS. RE-USE OF EXISTING PENETRATIONS SHALL BE PERMITTED. PRIOR TO ANY CORE DRILLING THROUGH FLOORS OR WALLS, THE ELECTRICAL CONTRACTOR SHALL VISUALLY SURVEY BOTH SIDES TO SEE IF THERE ARE ANY PIPES, DUCTS, OR ELECTRICAL SERVICES THAT MAY PRESENT OBSTACLES. THE ELECTRICAL CONTRACTOR SHALL ALSO IDENTIFY LOCATIONS OF EXISTING CONCRETE SLAB REINFORCEMENT OR IN-SLAB UTILITIES USING

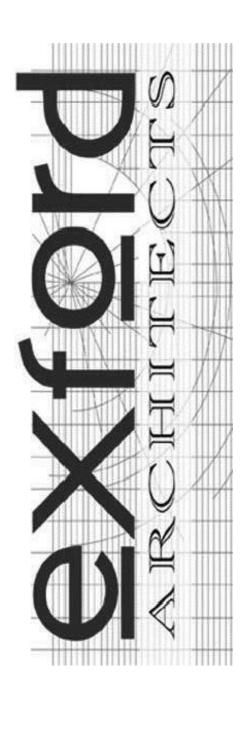
A PACHOMETER, X-RAY, OR SIMILAR DEVICE. ALL CORE-DRILLED PENETRATIONS SHALL BE A MINIMUM OF 3 INCHES AWAY FROM EXISTING CONCRETE SLAB REINFORCEMENT OR IN-SLAB UTILITIES. ALL CONDUIT PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED ON BOTH SIDES WITH FIREPROOFING CAULK SO AS TO MAINTAIN THE FIRE RATING OF THE FLOOR OR WALL

- 63. CONTRACTOR SHALL MINIMIZE THE NUMBER AND SIZE OF ALL ROOF PENETRATIONS, GROUPING MULTIPLE CONDUITS IN THE SAME PENETRATION WHEN POSSIBLE. WHEN APPLICABLE CONTRACTOR SHALL COORDINATE WITH ORIGINAL ROOFING MEMBRANE MANUFACTURER IN ORDER TO MAINTAIN ROOF WARRANTY. SEAL AROUND ALL ROOF PENETRATIONS WITH A LISTED SEALING COMPOUND. PROVIDE RUBBER BOOT, FLASHING, CAULKING, AND OTHER ITEMS AS REQUIRED FOR A WEATHERTIGHT INSTALLATION. PRIOR TO PENETRATING ROOF CONTRACTOR MUSH USE NON-DESTRUCTIVE MEANS TO LOCATE ALL REINFORCING STEEL OR TENDONS WITHIN THE PROPOSED AREA OR PENETRATION, IF APPLICABLE. WHEN PENETRATING ROOF, CONTRACTOR SHALL NOT CUT, BURN OR DAMAGE EXISTING REINFORCING STEEL OR TENDONS UNLESS APPROVED BY A STRUCTURAL ENGINEER. CONDUIT ROOF PENETRATIONS SHALL BE INCLUDED IN CONTRACTOR 'S GUARANTEE OR WORK.
- 64. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE LIGHTING CONTROL SYSTEM, INCLUDING ALL REQUIRED ADDRESSABLE LIGHTING CONTROL PANELS, LOCAL CONTROL DEVICES AND SENSORS, POWER PACKS, POWER AND CONTROL CONDUCTORS, ETC. THE LIGHTING CONTROLS SYSTEM CONTRACTOR SHALL FURNISH THE OWNER, ENGINEER, AND COMMISSIONING AGENT PLANS AND DETAILS OF THE NEW LIGHTING CONTROLS SYSTEM FOR APPROVAL PRIOR TO BEGINNING WORK. PROPOSED LOCATIONS OF LIGHTING CONTROLS DEVICES SHALL BE DOCUMENTED ON FULL-SIZE DRAWING AND SUBMITTED ALONG WITH CUT SHEETS OF EQUIPMENT & DEVICES AND OTHER DESCRIPTIVE DATA TO THE OWNER, ENGINEER, AND COMMISSIONING AGENT. PROGRAMMING OF THE LIGHTING CONTROLS SYSTEM SHALL BE PERFORMED BY THE LIGHTING CONTROLS SYSTEMS CONTRACTOR. THE LIGHTING CONTROLS SYSTEM CONTRACTOR SHALL PROVIDE THE OWNER WITH LIGHTING CONTROLS SYSTEM OPERATIONS AND MAINTENANCE (O&M) MANUALS AS REQUIRED.
- 65. THE CONTRACTOR SHALL SECURE THE SERVICES OF AN OWNER-APPROVED LICENSED FIRE ALARM SYSTEMS CONTRACTOR TO DESIGN AND INSTALL A NEW FIRE ALARM SYSTEM FOR THE RENOVATED SPACE. FIRE ALARM SYSTEM REQUIREMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
- THE FIRE ALARM SYSTEM SHALL BE FIELD ADDRESSABLE WITH NEW SMOKE DETECTORS, HEAT DETECTORS, MANUAL PULL STATIONS, NOTIFICATION DEVICES AND INTERFACES FURNISHED AND INSTALLED AS REQUIRED TO SUIT THE SPACE REQUIREMENTS
- THE FIRE ALARM SYSTEM SHALL SHUT DOWN HVAC EQUIPMENT AS REQUIRED. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT THAT REQUIRES SHUTDOWN
- THE FIRE ALARM SYSTEMS CONTRACTOR SHALL FURNISH PLANS AND DETAILS OF THE NEW FIRE ALARM SYSTEM FOR APPROVAL PRIOR TO BEGINNING WORK. PROPOSED LOCATIONS OF FIRE ALARM DEVICES SHALL BE DOCUMENTED ON FULL-SIZE DRAWINGS AND SUBMITTED ALONG WITH CUT SHEETS OF EQUIPMENT & DEVICES AND OTHER DESCRIPTIVE DATA AS REQUIRED BY STATE AND LOCAL FIRE REGULATIONS
- PROGRAMMING OF THE FIRE ALARM SYSTEM SHALL BE PERFORMED BY THE FIRE ALARM SYSTEMS CONTRACTOR
- THE FIRE ALARM SYSTEMS CONTRACTOR SHALL PROVIDE THE OWNER WITH FIRE ALARM SYSTEM OPERATION AND MAINTENANCE (O&M) MANUALS AS REQUIRED









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No. Description Date <u>___</u> --**GENERAL NOTES** ELECTRICAL Project number 10238.00

05/23/2022

Date

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CONSULTING

ELECTRICAL I. THESE SYMBOLS COMPRISE A STANDARD LIST, ALL SYMBOLS M 2. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINI 3. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVAL SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS INDICATES HOMERUN TO PNLED. X-I, 3, 4 5 INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS I, 3 ± 5. INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 ± 5 OF PANEL X. MARKS ACROSS RACEMAY INDICATE THE NUMBER OF NO. 12 CONDUCTORS, NO MARKS INDICATE (12) TWO NO. 12 CONDUCTORS, NO MARKS INDICATE (2) TWO NO. 12 CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED DELOW SLAB OR FINISHED GRADE WITH 2 #12, 1 #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT DOWN CONDUIT FIXTURE, LETTER INDICATES TYPE Nall BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE EXIT LIGHT FIXTURE ON EMERGENCY POWER OR WEATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF FACES INDICATES PROVIDE	1AY NOT APPEAR ON THIS PROJECT. ISHED FLOOR. ATIONS, AS NOTED SPECIFICALLY ON THESE DRAWINGS OR IN THE
 ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINI MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVAL SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIG ARRONHEAD INDICATES HOMERUN TO PNLBD. X-1, 3, € 5 INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS 1, 3 §5 INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 € 5 OF PANEL X. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF NO. 12 CONDUCTORS, BOUPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS INDICATE (12) TWO NO. 12 CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, 1 #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB INDIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE IGHT FIXTURE ON EMERGENCY POWER OR WEATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARRONS AS INDICATED, NUMBER OF 	ISHED FLOOR. ATIONS, AS NOTED SPECIFICALLY ON THESE DRAWINGS OR IN THE GHTS LISTED BELOW. KEYPAD ENTRY CARD READER TO TIME CLOCK, MOUNT 48" AFF CEILING MOUNTED WIRELESS ACCESS POINT (WAP) DEVICE
X-135 INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS 1, 3 35 INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 & 5 OF PANEL X. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF NO. 12 CONDUCTORS, NO MARKS INDICATE (2) TWO NO. 12 CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED IN WALL OR ABOVE CELLING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, 1 #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 1 #12 #12, 1 #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT UP CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE III PRECESSED LIGHT FIXTURE, LETTER INDICATES TYPE III RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE IIIGHT FIXTURE ON EMERGENCY POWER OR WBATTERY PACK IIIGHT FIXTURE, CEILING / MALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	Image: Card Reader Image: Card Reader Image: Clock, mount 48" AFF Image: Ceiling mounted wireless access point (wap) device
X-1,35 4 5. 35 INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 4 5 OF PANEL X. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF NO. 12 CONDUCTORS, NO MARKS INDICATE ((2) TWO NO. 12 CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, 1 #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT DOWN III PLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE III RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE III WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE III WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE IIII LIGHT FIXTURE ON EMERGENCY POWER OR WBATTERY PACK IIIII LIGHT FIXTURE, CEILING / MALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	TIME CLOCK, MOUNT 48" AFF
PANEL X. MARKS ACROSS RACEWAY INDICATE THE NUMBER OF NO. 12 CONDUCTORS, NO MARKS INDICATE ((2) TWO NO. 12 CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT UP CONDUIT DOWN A FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE D LIGHT FIXTURE ON EMERGENCY POWER OR WEATTERY PACK	CEILING MOUNTED WIRELESS ACCESS POINT (WAP) DEVICE
 NO. 12 CONDUCTORS, NO MARKS INDICATE ((2) TWO NO. 12 CONDUCTORS, EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE EXIT LIGHT FIXTURE ON EMERGENCY POWER OR WBATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF 	
12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED. CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF WALL BRACKET CEILING / WALL MOUNTED	6P CEILING MOUNTED SPEAKER
2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT CONCEALED BELOW SLAB OR FINISHED GRADE WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT UP CONDUIT UP CONDUIT DOWN A FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE C LIGHT FIXTURE ON EMERGENCY POWER OR W/BATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	
WITH 2 #12, I #12 EG CONDUCTORS IN 3/4" CONDUIT MIN CONDUIT EXPOSED ON WALL OR CEILING WITH 2 #12, I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT UP CONDUIT DOWN III FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE III WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE IIII CONDUCTORS ON EMERGENCY POWER OR WBATTERY PACK IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	TV / MONITOR, PROVIDE SINGLE GANG BOX WITH I" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE FOR OTHERS, MOUNT BOX 60" AFF.
I #12 EG CONDUCTORS IN 1/2" CONDUIT MIN CONDUIT STUB III DRIVEN GROUND ROD PER NEC ARTICLE 250 CONDUIT UP CONDUIT DOWN III CONDUIT DOWN III FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE III RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE III C WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE IIII LIGHT FIXTURE ON EMERGENCY POWER OR W/BATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	THERMOSTAT, PROVIDE SINGLE GANG J-BOX WITH 1/2" C STUBBED INTO CEILING SPACE, MOUNT 72" AFF
III DRIVEN GROUND ROD PER NEC ARTICLE 250 O CONDUIT UP CONDUIT DOWN III FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE IIII WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	(COORDINATE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN)
 CONDUIT UP CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE LIGHT FIXTURE ON EMERGENCY POWER OR W/BATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF 	$\boxtimes \ensuremath{\mathbb{M}}$ cotv camera, coordinate aiming requirements in the field
 CONDUIT DOWN FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE MALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE MALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE LIGHT FIXTURE ON EMERGENCY POWER OR W/BATTERY PACK EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF 	F FIRE ALARM MANUAL INITIATING STATION 80" AFF
▲ → FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE ○ B RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE → WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE ✓ ✓ LIGHT FIXTURE ON EMERGENCY POWER OR W/BATTERY PACK ✓ → EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	FIRE ALARM HORN 80" AFF
A OB RECESSED LIGHT FIXTURE, LETTER INDICATES TYPE HOC WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE Image: Image	F FIRE ALARM HORN / STROBE 80" AFF
HOC WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE Image: I	EC FIRE ALARM VOICE MESSAGING / STROBE 80" AFF
Image: Second Structure Second Structure Image: Second Structure	-F- FIRE ALARM VISUAL DEVICE WALL 84" AFF
EXIT LIGHT FIXTURE, CEILING / WALL MOUNTED DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	SD SMOKE DETECTOR - CEILING MOUNTED
DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	(H) THERMAL HEAT DETECTOR - CEILING MOUNTED
FOR DIRECTIONAL ARROWS AS INDICATED, NUMBER OF	ET COMBINATION SMOKE/HEAT DETECTOR - CEILING MOUNTED
24HR. BRANCH CIRCUIT.	SINGLE POLE SMITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" AFF
BATTERY POWERED EMERGENCY LIGHT	3 THREE-WAY SWITCH, MOUNT 48" AFF
SINGLE RECEPTACLE, 125V, 20A MOUNT 16" AFF	DIMMER SWITCH, MOUNT 48" AFF
$= / \bigoplus DUPLEX RECEPTACLE, WALL MOUNT 16" AFF / ABOVE COUNTER ("ER" DENOTES EXISTING TO REMAIN)$	MS WALL MOUNTED OCCUPANCY MOTION SWITCH, MOUNT 48" AF (IF "MS" PRESENT, DENOTES MOMENTARY OVERRIDE)
QUADRAPLEX RECEPTACLE, MOUNT 16" AFF (ABOVE COUNTER HEIGHT OR OTHER HEIGHT AS NOTED ON	SM MOTOR RATED SWITCH
PLANS) $ = / \oplus_{\mu} $ GFI DUPLEX RECEPTACLE, WALL MOUNT 16" AFF /	
ABOVE COUNTER ("H" DENOTES HORIZONTAL MTD.)	PP OCCUPANCY SENSOR POWER PACK, CEILING MOUNT
SPLIT- FED SWITCHED DUPLEX RECEPTACLE, MOUNT 16" AFF	PR DIMMING CONTROL, MOUNTED ABOVE CEILING
4	30/3/3R NON-FUSIBLE DISCONNECT SWITCH. RATING / POLES / NEMA ENCLOSURE AS REQUIRED BY EQUIPMENT AND NEC.
 FLOOR MOUNTED DUPLEX RECEPTACLE, 4 DENOTES QUAD SPECIAL PURPOSE RECEPTACLE AS NOTED 	60/3/3R/45 FUSIBLE DISCONNECT SWITCH. RATING / POLES / NEMA
	AND NEC.
F TELEPHONE OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 16" AFF ("F" DENOTES FAX LINE)	JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS)
DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED	M/MI POWER COMPANY METER 120/208 VOLT PANELBOARD, FLUSH / SURFACE MTD
INTO CEILING SPACE. MOUNT BOX 16" AFF COMB VOICE/DATA OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 16"	T MOTOR. "F" INDICATES FRACTIONAL HORSEPOWER.
AFF FLOOR MOUNTED TELEPHONE OUTLET, PROVIDE SINGLE	
GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE.	EQUIPMENT AS INDICATED

	ELECTRICAL AE	BBRE
A or AMP A/E AFF AFG AHU AL AC	AMPERE ARCHITECT AND ENGINEER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLING UNIT ALUMINUM ABOVE COUNTER	LTG LTS MECH MCB MC MCC MH
BRKR	BREAKER	MLO MTD
COND or C CCT CLG COND CONN CU CUH	CONDUIT CIRCUIT CEILING CONDUCTOR CONNECTION COPPER CABINET UNIT HEATER	NC NEC NEMA NEUT NO NTS
DISC SW DN DWG	DISCONNECT SWITCH DOWN DRAWING	PB PH
EC ELEC EQUIP EM EM EMC EXH EXH EXP	ELECTRICAL CONTRACTOR ELECTRICAL EQUIPMENT EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRIC WATER COOLER EXHAUST EXISTING EXPLOSION PROOF	PR PNL PVC RECEP SEC S/N SW
FA FACP FAA FLA F FSS	FIRE ALARM FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNICATOR FULL LOAD AMPERES FUSE FUSED SAFETY SWITCH	TC TELE XFRMR TWHP TYP
GC GFCI GND or GRND GRS	GENERAL CONTRACTOR GROUND FAULT CIRCUIT INTERRUPTER GROUND GALVANIZED RIGID STEEL	UC UG UH UT UV
HID HP HTR HZ	HIGH INTENSITY DISCHARGE HORSEPOWER HEATER HERTZ	
IC INCAND IMT	INTERRUPTING CURRENT INCANDESCENT INTERMEDIATE METAL TUBING	MP M/O MTR
JB or J-BOX	JUNCTION BOX	Y
KV KVA KM KCMIL	KILOVOLT KILOVOLT AMPERES KILOWATT THOUSAND CIRCULAR MIL	Φ

VIATIONS
LIGHTING LIGHTS
MECHANICAL MAIN CIRCUIT BREAKER MECHANICAL CONTRACTOR MOTOR CONTROL CENTER MOUNTING HEIGHT MAIN LUGS ONLY MOUNTED
NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NEUTRAL NORMALLY OPEN NOT TO SCALE
PUSHBUTTON PHASE PRIMARY PANEL POWER ROOF VENTILATOR PLASTIC CONDUIT
RECEPTACLE
SECONDARY SOLID NEUTRAL SWITCH
TEMPERATURE CONTROL TELEPHONE TRANSFORMER THRU-WALL HEAT PUMP TYPICAL
UNDERGROUND CABLE UNDERGROUND UNIT HEATER UNDERGROUND TELEPHONE UNIT VENTILATOR
VOLT VOLT AMPERES
WATT WEATHERPROOF WITHOUT WATER
WYE CONNECTED
DELTA CONNECTED
PHASE

	LIGHTING F	IXTURE SCHEDULE (INTERIOR)
A	SELF-FLANGED ANODIZ	ERTURE LED DOWNLIGHT, PASSIVE COOLING THERMAL MANAGEMENT, ED REFLECTORS IN SPECULAR, SEMI-SPECULAR, OR MATTE DIFFUSE
	FINISHES, THERMAL PRO	TECTION, SUITABLE FOR WET LOCATION. 35W LITHONIA LIGHTING - LDNG 35/30 LOGAR LSS MVOLT
AE	SAME AS "DA" EXCEPT	OR APPROVED EQUAL WITH APPROVED EMERGENCY BATTERY PACK (EL7L) FEATURE.
B	SELF-FLANGED ANODIZ	ERTURE LED DOWNLIGHT, PASSIVE COOLING THERMAL MANAGEMENT, ED REFLECTORS IN SPECULAR, SEMI-SPECULAR, OR MATTE DIFFUSE TECTION, SUITABLE FOR WET LOCATION.
BE	SAME AS "DB" EXCEPT	IIW LITHONIA LIGHTING - LDNG 35/30 LOGAR LSS MVOLT OR APPROVED EQUAL WITH APPROVED EMERGENCY BATTERY PACK (EL7L) FEATURE.
_A	2'x4', RECESSED LAY-IN REFLECTOR, COATED PO FACETED REFLECTOR C	I GRID LED TROFFER, RUGGED, ONE-PIECE COLD-ROLLED STEEL OLYESTER POWERED PAINT, VOLUMETRIC ILLUMINATION, LINEAR AVITY SOFTENS AND DISTRIBUTES LIGHT, HIGH-EFFICIENCY DRIVERS, STEM PREVENTS ENERGY WASTE.
		38M LITHONIA LIGHTING - 2BLT4 48L ADP LP835 OR APPROVED EQUAL
AE	SAME AS "LA" EXCEPT	WITH APPROVED EMERGENCY BATTERY PACK FEATURE.
B	REFLECTOR, COATED PO FACETED REFLECTOR C	NGRID LED TROFFER, RUGGED, ONE-PIECE COLD-ROLLED STEEL OLYESTER POWERED PAINT, VOLUMETRIC ILLUMINATION, LINEAR AVITY SOFTENS AND DISTRIBUTES LIGHT, HIGH-EFFICIENCY DRIVERS, STEM PREVENTS ENERGY WASTE.
	LAMPS: MANUFACTURER:	32W LITHONIA LIGHTING - 2BLT2 40L ADP LP835 OR APPROVED EQUAL
_BE _C	4', CEILING/WALL/CHAIN ARE FORMED FROM CO POLYESTER, LENS END-0	WITH APPROVED EMERGENCY BATTERY PACK (EL7L) FEATURE. -HUNG MOUNTED LINEAR LED FIXTURE, RUGGED, CHANNEL AND COVER DE-GAUGE COLD-ROLLED STEEL, HIGH-GLOSS, BAKED WHITE CAPS ARE INJECTION MOLDED PLASTIC, OPTICAL DISTRIBUTIONS.
	LAMPS: MANUFACTURER:	35W LITHONIA LIGHTING - CLX L48 5000LM SEF FLD MV0LT 40K 80CRI WH WGCLX48 OR APPROVED EQUAL
.CE		NITH APPROVED EMERGENCY BATTERY PACK FEATURE.
DE		KET, DIE-FORMED ENCLOSURE, HINGED DOOR FRAME. EXTRUDED SH PERFORMANCE IMPACT RESISTANCE, OPTIONAL POLYCARBONATE CREWS. 37W
		LITHONIA LIGHTING - BLWP2 40L SDSM LP835 OR APPROVED EQUAL
E		ER CABINETS ACCENT LIGHT WITH ON/OFF ROCKER SWITCH. RUGGED OFILE STEEL HOUSING WITH WHITE FINISH. ACRYLIC WHITE DIFFUSER > ILLUMINATION.
	LAMPS: MANUFACTURER:	I2M LITHONIA LIGHTING - UCEL 24IN 30K 90CRI SWR WH OR APPROVED EQUAL
A	4-LAMP MEDIUM PENDA AND STEM, BRASS FINIS	NT LED LIGHT FIXTURE, MID-CENTURY SILHOUETTE, CAST KNOBS, HINGE
	LAMPS:	(4) I3W HINKLEY LIGHTING - 3384HB OR APPROVED EQUAL
КA	MAINTENANCE FREE NIC UNIVERSAL INSTALLATIC	N, WHITE HOUSING/TRIM FINISH, CLEAR ACRYLIC PANELS. SEALED KLE CADMIUM BATTERY, DUAL VOLTAGE, UNIVERSAL MOUNTING, DN, SINGLE OR DOUBLE RED STENCIL FACE PANELS. PROVIDE AS REQUIRED AND AS NOTED ON THE PLANS. UL940-0 FLAME RATED, ND OSHA STANDARDS.
	LAMPS:	6.6W LITHONIA - EDG / EDGR SERIES OR APPROVED EQUAL
	I GHTING FI	XTURE SCHEDULE (EXTERIOR)
TYPE		
ĒA	ENGINE AND PROMOTE I SILICONE GASKET KEEP	ALUMINUM HOUSING TO OPTIMIZE THERMAL TRANSFER FROM THE LIGHT ONG LIFE, DIE-CAST DOOR FRAME FULLY GASKETED, ONE-PIECE SOLID S OUT MOISTURE AND DUST, INDIVIDUALLY FORMED ACRYLIC LENSES, ROVIDED WITH EMERGENCY BATTERY BACK-UP OPTION. MOUNT AT
		59W LITHONIA LIGHTING - WDGEI LED P2 40K 80CRI VW MVOLT SRM E4WH DDBXD OR APPROVED EQUAL
∃B	INTEGRAL HEAT SINK FI THE HOUSING AND LENS ENVIRONMENTAL CONTA	FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION WITH NS, PRECISION-MOLDED VACUUM-METALIZED SPECULAR REFLECTORS. FRAME ARE COMPLETELY SEALED AGAINST MOISTURE AND MINANTS. THERMOSET POWDER COAT FINISH THAT PROVIDES SUPERIOR ISION AND WEATHERING.
	LAMPS: MANUFACTURER:	21M LITHONIA LIGHTING - DSXFI LED PI 40K HMF IS VG DDBXD OR APPROVED EQUAL
ĒC	INTEGRAL HEAT SINK FI THE HOUSING AND LENS ENVIRONMENTAL CONTA RESISTANCE TO CORRO	FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONSTRUCTION WITH NS, PRECISION-MOLDED VACUUM-METALIZED SPECULAR REFLECTORS. FRAME ARE COMPLETELY SEALED AGAINST MOISTURE AND MINANTS. THERMOSET POWDER COAT FINISH THAT PROVIDES SUPERIOR ISION AND WEATHERING.
	LAMPS: MANUFACTURER:	I38M LITHONIA LIGHTING - DSXF3 LED P2 40K FL IS VG DDBXD OR APPROVED EQUAL
Ð	ALUMINUM HOUSING, MAT SPECULAR ANODIZED A GASKET. MOUNT AT 12'-(
	LAMPS: MANUFACTURER:	20M RAYON LIGHTING - T650LED BD 20/20 UNV 40 T? BZ EM

	LIGHTING FI	XTURE SCHEDULE (EXTE
TYPE		DESCRIPTION
EA	ENGINE AND PROMOTE L SILICONE GASKET KEEP	ALUMINUM HOUSING TO OPTIMIZE THERMAL TRANS ONG LIFE, DIE-CAST DOOR FRAME FULLY GASKET SOUT MOISTURE AND DUST, INDIVIDUALLY FORMED ROVIDED WITH EMERGENCY BATTERY BACK-UP O
	LAMPS: MANUFACTURER:	59W LITHONIA LIGHTING - WDGEI LED P2 40K 800 E4WH DDBXD OR APPROVED EQUAL
EB	INTEGRAL HEAT SINK FIN THE HOUSING AND LENS	P FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONST NS, PRECISION-MOLDED VACUUM-METALIZED SPECI FRAME ARE COMPLETELY SEALED AGAINST MOIST MINANTS. THERMOSET POWDER COAT FINISH THAT ISION AND WEATHERING.
	LAMPS: MANUFACTURER:	21W LITHONIA LIGHTING - DSXFI LED PI 40K HMF OR APPROVED EQUAL
EC	INTEGRAL HEAT SINK FIN THE HOUSING AND LENS	P FLOODLIGHT, RUGGED DIE-CAST ALUMINUM CONST NS, PRECISION-MOLDED VACUUM-METALIZED SPECI FRAME ARE COMPLETELY SEALED AGAINST MOIS MINANTS. THERMOSET POWDER COAT FINISH THAT ISION AND WEATHERING.
	LAMPS: MANUFACTURER:	I38M LITHONIA LIGHTING - DSXF3 LED P2 40K FL OR APPROVED EQUAL
ED	ALUMINUM HOUSING, MAT	LED WALL MOUNTED LIGHT FIXTURE, RUGGED HEAV T-FINISHED, ARCHITECTURAL BRONZE POWDERCOA LUMINUM REFLECTOR, LENS IS SEALED BY A ONE-F O" AFG.
	LAMPS: MANUFACTURER:	20W RAYON LIGHTING - T650LED BD 20/20 UNV OR APPROVED EQUAL
L	L	



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CHURC \succ FACILIT S **A** < NEW WORSHIP FOR BAP 'AL SELMA CLE -ABERNA(\vdash

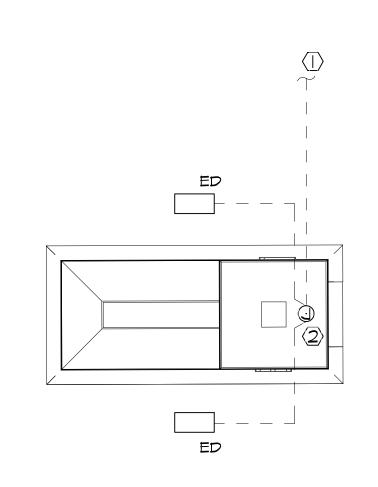
No. Description Date <u>/-</u>\ --<u>__</u> --_____ _____ _____ LEGEND, SCHEDULES, ABBREVIATIONS E0.2
 Project number
 10238.00

 Date
 05/23/2022

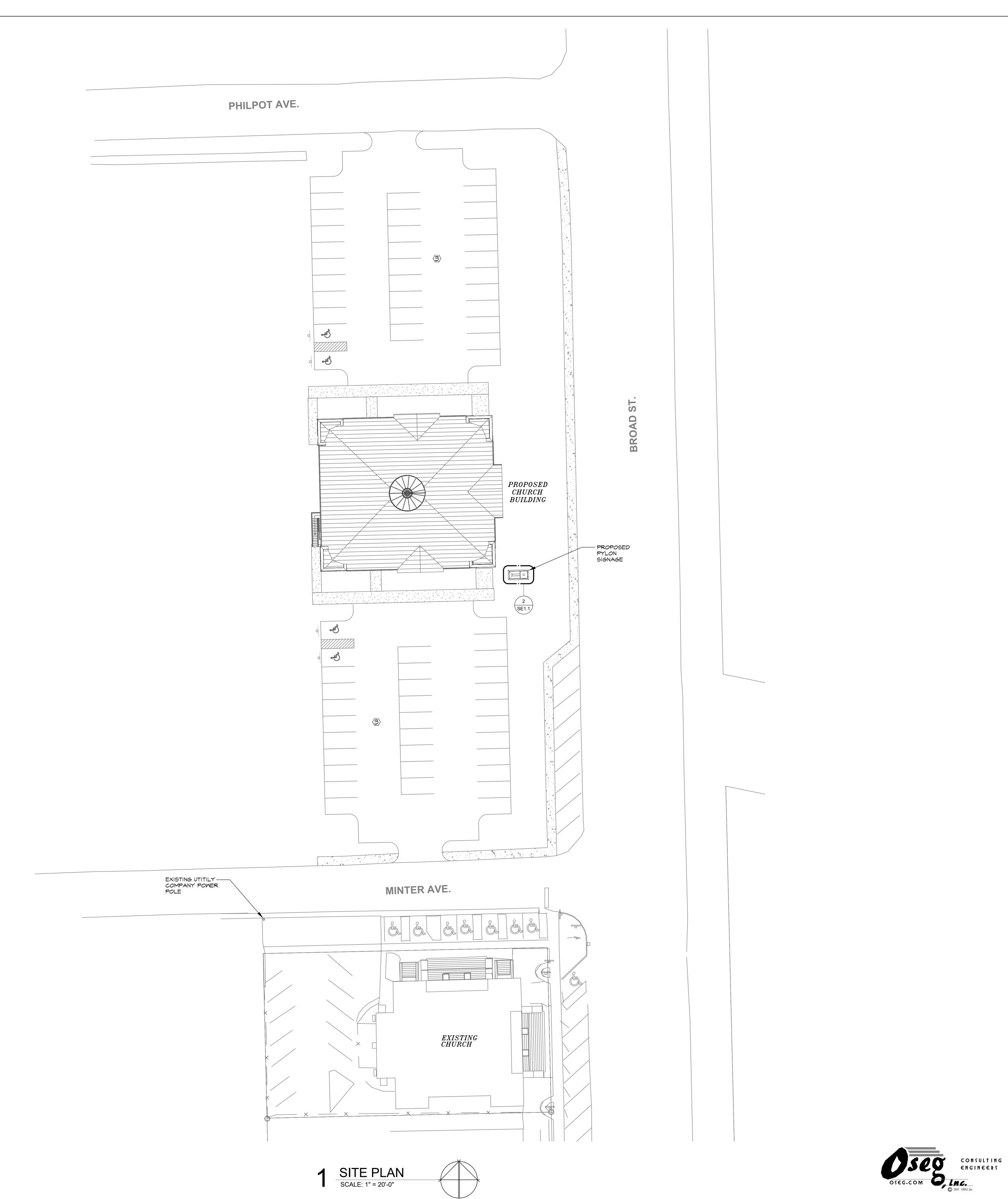
- I. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS REQUIRED AND SHALL FIELD VERIFY ALL EXISTING FIELD CONDITIONS OF WORK AREA PRIOR TO COMMENCING WORK.
- 2. THESE DRAWINGS ARE DIAGRAMMATIC, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL FIELD CONDITIONS, REGARDLESS OF CIRCUITING INDICATED ON THESE PLANS.
- 3. THE CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL EQUIPMENT/DEVICES WITH THE OWNER AND/OR ARCHITECT PRIOR TO ROUGH-IN.
- 4. PRIOR TO ROUGH-IN THE CONTRACTOR SHALL FIELD VERIFY/CONFIRM THE DEVICE REQUIREMENTS, VOLTAGE, PHASE, AMPS AND MEANS OF DISCONNECT OF EQUIPMENT WITH MANUFACTURER REQUIREMENTS.

<u>KEYNOTES</u>

- EXTEND AND CONNECT TO BUILDING FLOOD LIGHTS, REFER TO DWG.
- 2 PROVIDE J-BOX FOR POWER TO DIGITAL DISPLAY SCREEN ON EACH SIDE OF THE PYLON, COORDINATE THE EXACT LOCATION OF J-BOX WITH THE ACCESS PANEL.
- 3 PARKING AREA NOT IN SCOPE OF WORK LIGHTING TO BE PROVIDE BY THE LOCAL UTILITY POWER COMPANY.

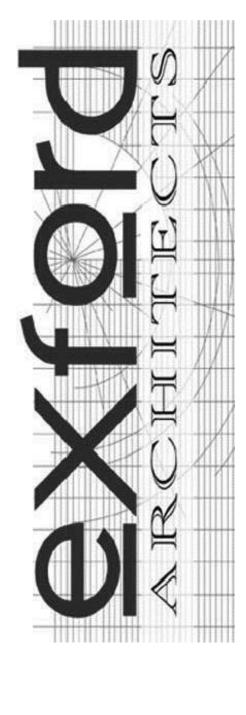




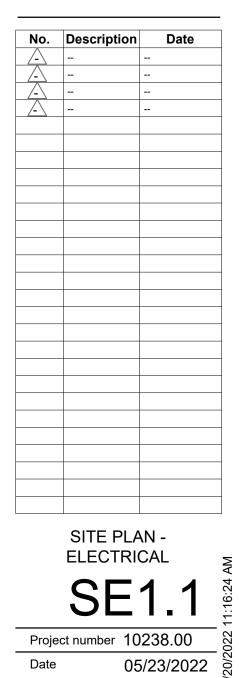


NORTH









I. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS REQUIRED AND SHALL FIELD VERIFY ALL EXISTING FIELD CONDITIONS

3. THESE DRAWINGS ARE DIAGRAMMATIC, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL FIELD CONDITIONS,

4. THE CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION

5. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED LIGHT FIXTURE SUPPORTS, HANGERS, ETC. AND SHALL BE INSTALLED PER

AND MOUNTING HEIGHTS OF ALL EQUIPMENT/DEVICES WITH THE OWNER

2. PROVIDE A 24HR. UNSWITCHED HOT BRANCH CIRCUIT TO ALL

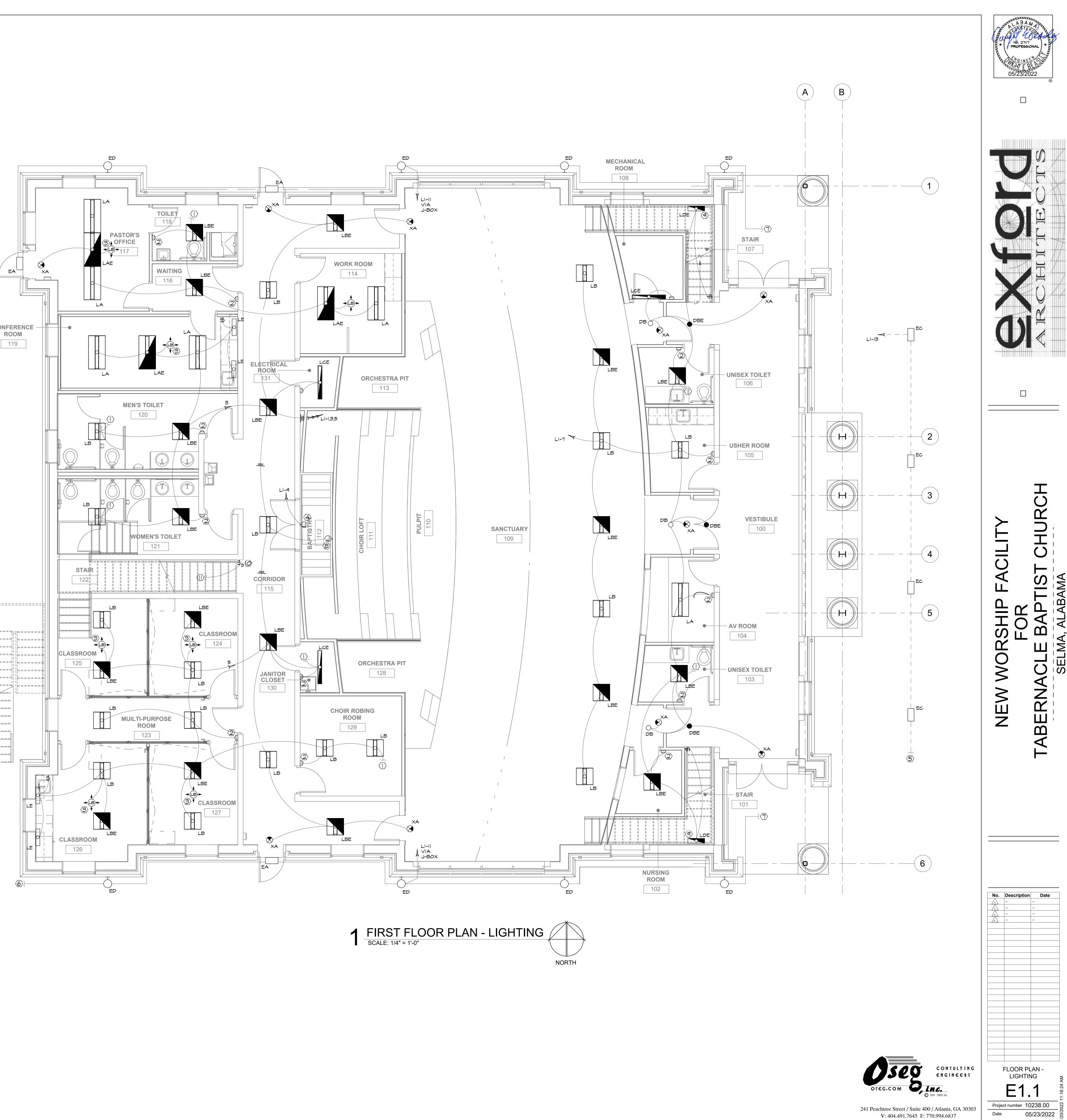
REGARDLESS OF CIRCUITING INDICATED ON THESE PLANS.

OF WORK AREA PRIOR TO COMMENCING WORK.

EMERGENCY AND EGRESS LIGHT FIXTURES.

AND/OR ARCHITECT PRIOR TO ROUGH-IN.

MANUFACTURER'S REQUIREMENTS.

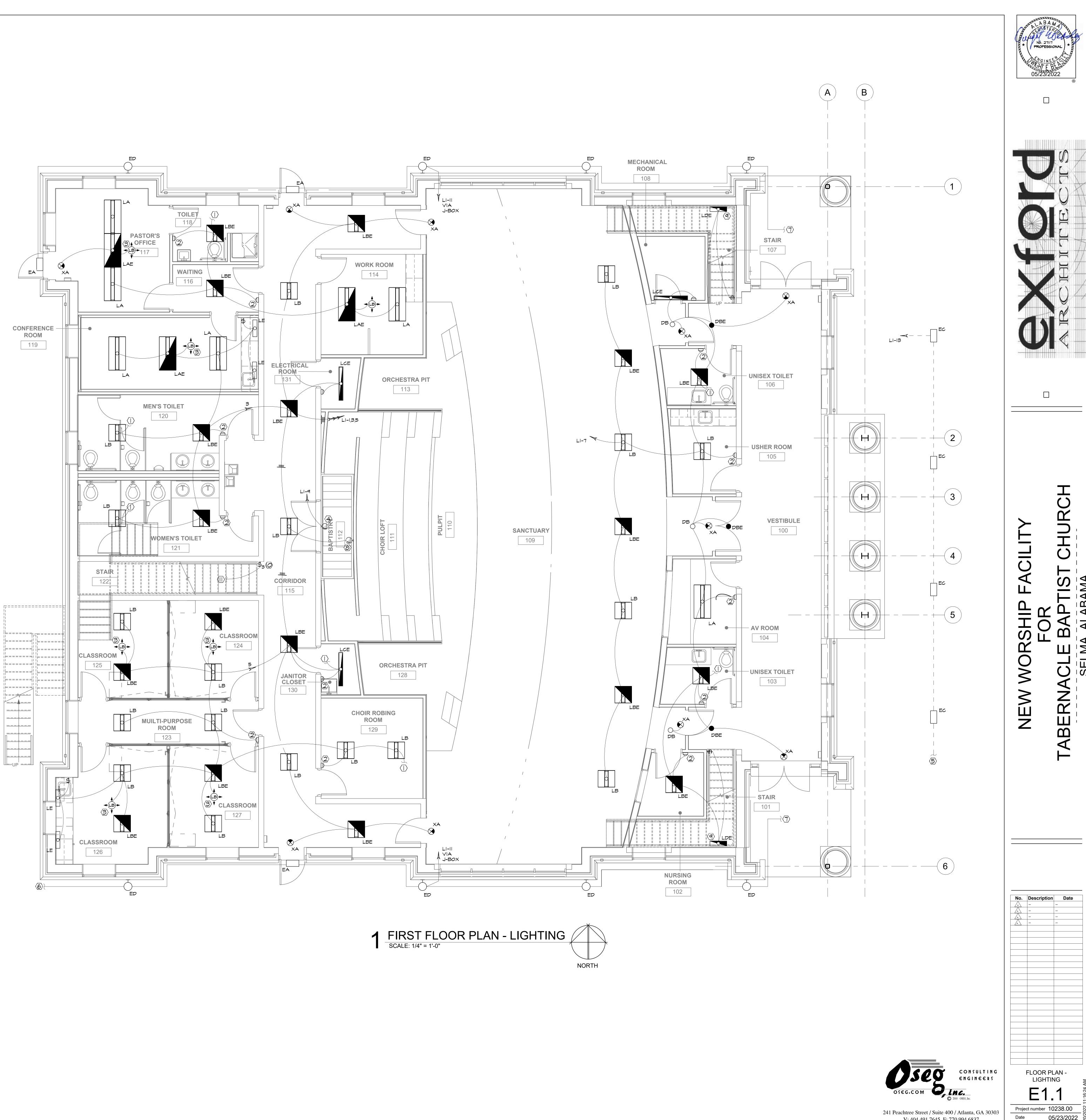


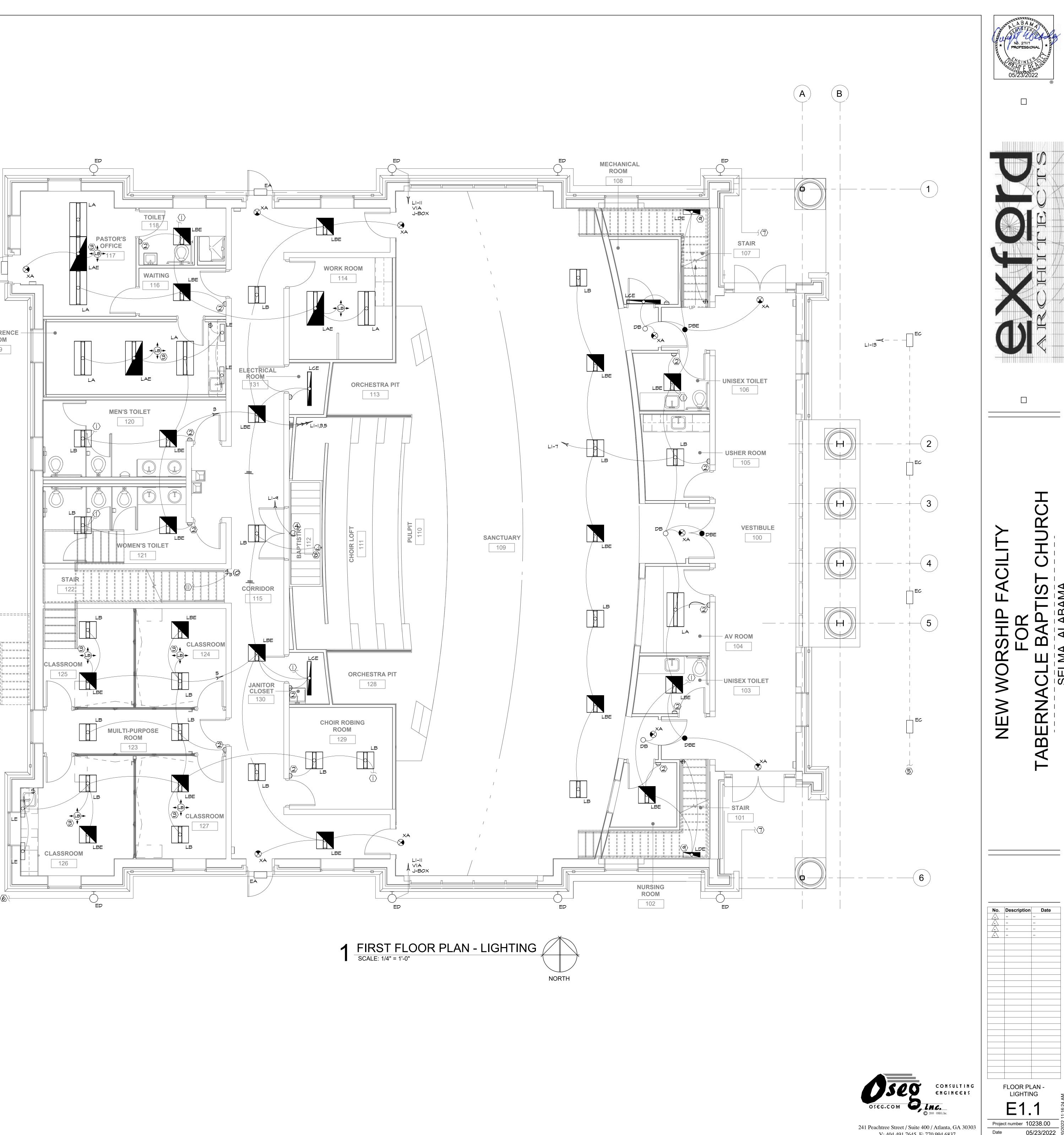
ROOM

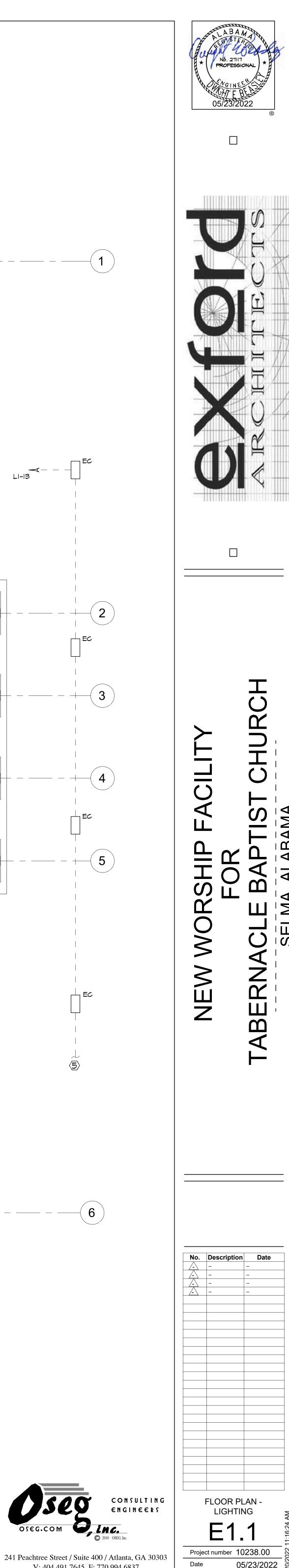
KEYNOTES
<u>NLINUILJ</u>

 $\langle \bar{|} \rangle$ EXTEND AND CONNECT TO EXHAUST FAN THIS ROOM, REFER TO DWG. I/E2.I FOR CONTINUATION.

- $\langle \overline{2} \rangle$ provide acutiv brands (WSX-PDT) dual-technology wall SWITCH OCCUPANCY SENSOR AS NOTED, CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS TO ASSURE PROPER OPERATION OF DEVICE. COORDINATE WITH THE OWNER AS TO THE TIME DELAY SETTINGS REQUIRED, SETTING SHOULD NOT EXCEED 20 MINUTES.
- (3) PROVIDE ACUTIY BRANDS (CMR PDT 9) PASSIVE INFRARED CEILING MOUNTED OCCUPANCY SENSOR, CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS TO ASSURE PROPER OPERATION OF DEVICE. COORDINATE WITH THE OWNER AS TO THE TIME DELAY SETTINGS REQUIRED, SETTING SHOULD NOT EXCEED 20 MINUTES.
- $\langle \overline{4} \rangle$ provide J-box for power to crucifix, contractor shall COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE WITH A PHOTOCELL TO BE INTERCONNECTED FOR OPERATIONAL PURPOSES AND TO BE MOUNTED IN A LOCATION SO AS TO AVOID ANY CONFLICT WITH ANY ARTIFICIAL LIGHTING.
- $\langle \overline{5}
 angle$ Extend and connect to pylon sign, refer to DWG. 2/SeI.I for CONTINUATION.
- $\langle \widehat{6} \rangle$ Extend and connect to exterior building light fixture "EA", REFER TO DWG. I/EI.2 FOR CONTINUATION.
- $\langle \overline{7} \rangle$ Extend and connect to exterior building light fixture "DA", REFER TO DWG. I/EI.2 FOR CONTINUATION.
- $\langle \widehat{\partial} \rangle$ provide J-box for Light fixture under the baptistry, confirm WITH VENDOR THE TYPE FIXTURE REQUIRED (I.E. WET LOCATION, ETC.). COORDINATE BEST AND EXACT LOCATION OF J-BOX BASED ON ORIENTATION AND PLACEMENT OF EQUIPMENT PRIOR TO ROUGH-IN.
- $\langle q \rangle$ MOUNT STARIWAY LIGHT FIXTURE AT 10'-0"AFF.
- O EXTEND 3#12 BETWEEN COMMON 3-WAY SWITCHES SHOWN.
- $\langle || \rangle$ Extend and connect to light fixture in stairwell, refer to DWG. I/E2.I FOR CONTINUATION.





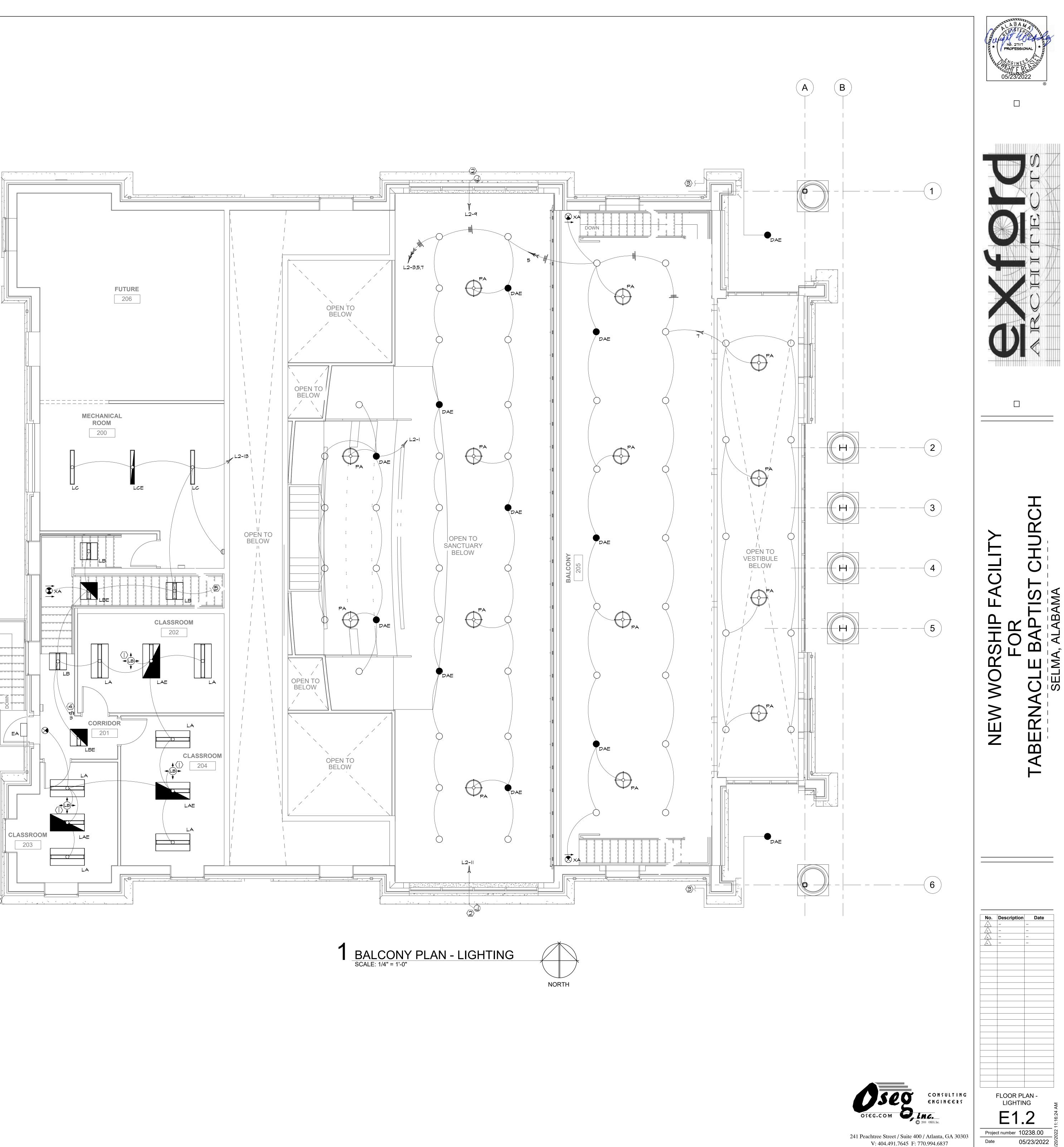


- I. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AS REQUIRED AND SHALL FIELD VERIFY ALL EXISTING FIELD CONDITIONS OF WORK AREA PRIOR TO COMMENCING WORK.
- 2. PROVIDE A 24HR. UNSWITCHED HOT BRANCH CIRCUIT TO ALL EMERGENCY AND EGRESS LIGHT FIXTURES.
- 3. ALL LIGHT FIXTURES SHALL BE TYPE "DA" UNLESS OTHERWISE NOTED.
- 4. THESE DRAWINGS ARE DIAGRAMMATIC, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL FIELD CONDITIONS, REGARDLESS OF CIRCUITING INDICATED ON THESE PLANS.
- 5. THE CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL EQUIPMENT/DEVICES WITH THE OWNER AND/OR ARCHITECT PRIOR TO ROUGH-IN.
- 6. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED LIGHT FIXTURE SUPPORTS, HANGERS, ETC. AND SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

KEYNOTES

- $\langle \overline{|} \rangle$ provide acutiv brands (CMR PDT 9) passive infrared ceiling MOUNTED OCCUPANCY SENSOR, CONTRACTOR SHALL REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS TO ASSURE PROPER OPERATION OF DEVICE. COORDINATE WITH THE OWNER AS TO THE TIME DELAY SETTINGS REQUIRED, SETTING SHOULD NOT EXCEED 20 MINUTES.
- $\langle 2 \rangle$ provide J-box for power to crucifix, contractor shall COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. PROVIDE WITH A PHOTOCELL TO BE INTERCONNECTED FOR OPERATIONAL PURPOSES AND TO BE MOUNTED IN A LOCATION SO AS TO AVOID ANY CONFLICT WITH ANY ARTIFICIAL LIGHTING.
- $\langle 3 \rangle$ Extend and connect to exterior building light fixture "ed", REFER TO DWG. I/EI.I FOR CONTINUATION.
- $\langle \overline{4} \rangle$ EXTEND 3#12 BETWEEN COMMON 3-WAY SWITCHES SHOWN.
- 5 EXTEND AND CONNECT TO WALL SWITCH, REFER TO DWG. I/EI.I FOR CONTINUATION.



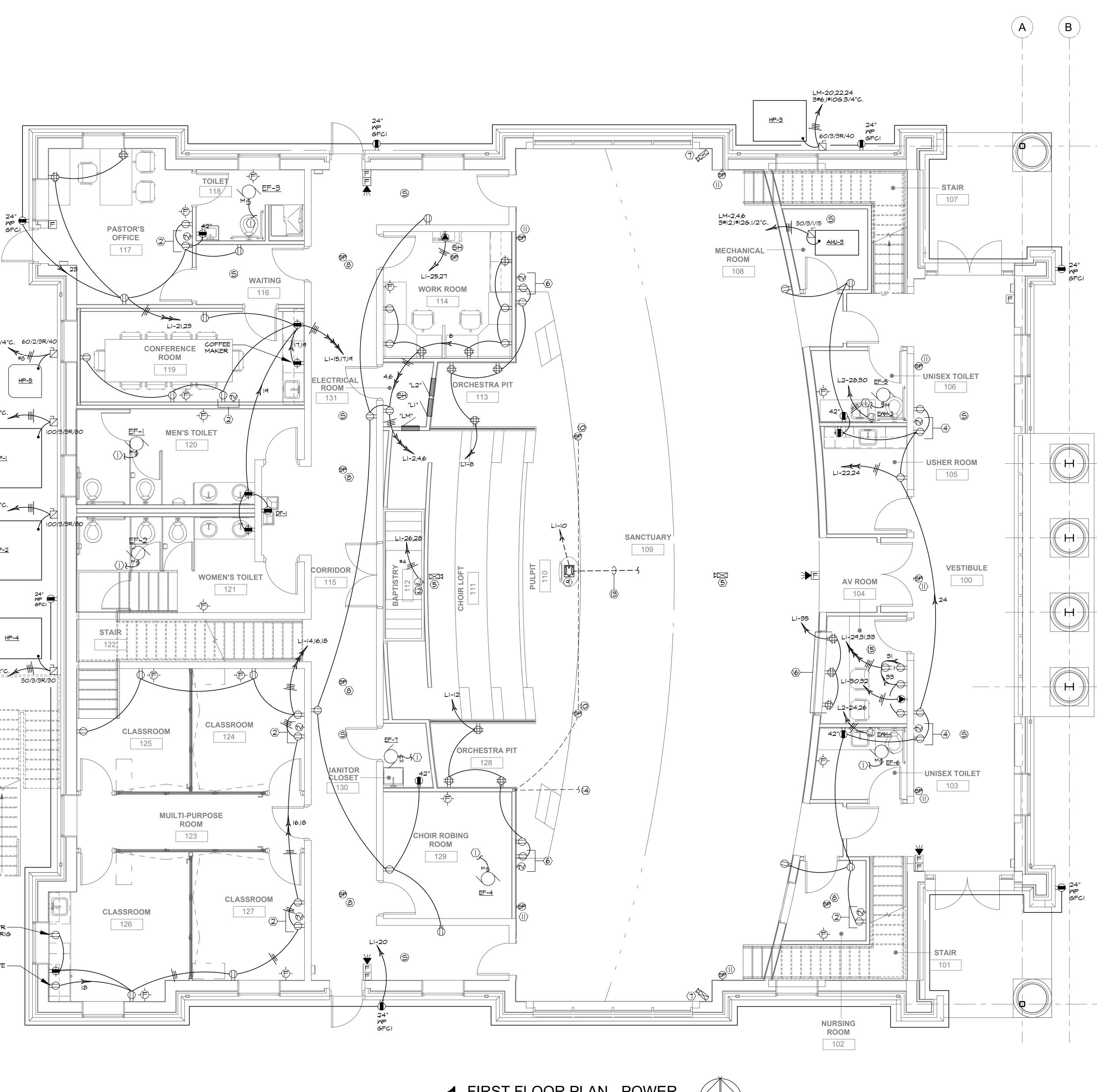


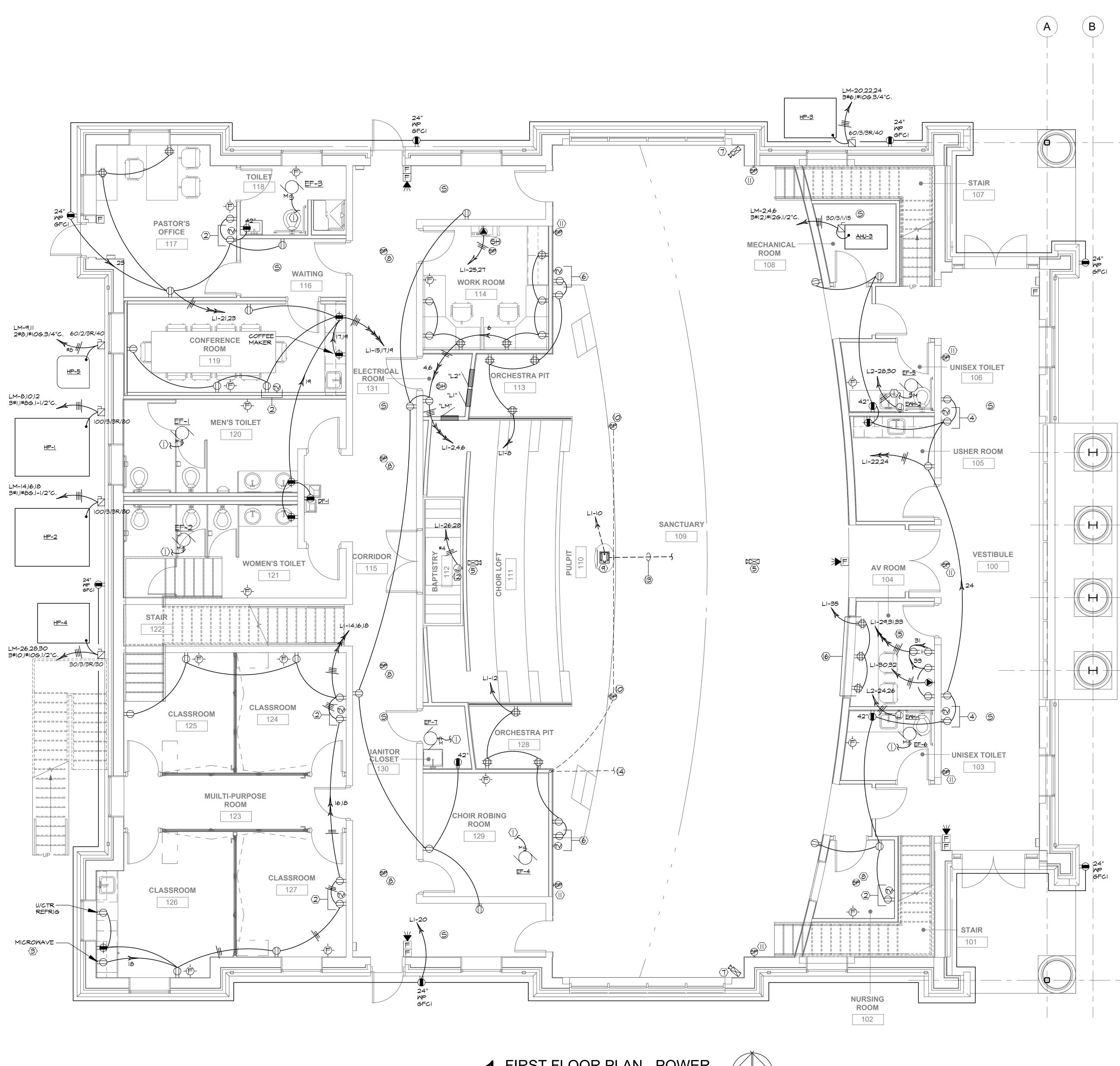
LOCATION OF EQUIPMENT.

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- 3. THE CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL EQUIPMENT/DEVICES WITH THE OWNER AND/OR ARCHITECT PRIOR TO ROUGH-IN.
- 4. PRIOR TO ROUGH-IN THE CONTRACTOR SHALL FIELD VERIFY/CONFIRM THE DEVICE REQUIREMENTS, VOLTAGE, PHASE, AMPS AND MEANS OF DISCONNECT OF EQUIPMENT WITH MANUFACTURER REQUIREMENTS. 5. THE CONTRACTOR SHALL REFER TO MECHANICAL PLANS FOR EXACT
- 6. THE CONTRACTOR SHALL ADHERE TO NEC ART. 518.4 WIRING METHOD FOR THE SANCTUARY AREA AS FOLLOWS:
- (A) GENERAL. THE FIXED WIRING METHODS SHALL BE METAL RACEWAYS, FLEXIBLE METAL RACEWAYS, NONMETALLIC RACEWAYS ENCASED IN NOT LESS THAN 50 MM (2 IN.) OF CONCRETE, TYPE MI, MC, OR AC CABLE. THE WIRING METHOD SHALL ITSELF QUALIFY AS AN EQUIPMENT GROUNDING CONDUCTOR ACCORDING TO 250.118 OR SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250.122.
- EXCEPTION: FIXED WIRING METHODS SHALL BE AS PROVIDED IN (a) AUDIO SIGNAL PROCESSING, AMPLIFICATION, AND REPRODUCTION EQUIPMENT - ARTICLE 640
- (b) COMMUNICATIONS CIRCUITS ARTICLE 800 (c) CLASS 2 AND CLASS 3 REMOTE-CONTROL AND SIGNALING CIRCUITS - ARTICLE 725
- (d) FIRE ALARM CIRCUITS ARTICLE 760
- (B) NONRATED CONSTRUCTION. IN ADDITION TO THE WIRING METHODS OF 518.4(A), NONMETALLIC-SHEATHED CABLE, TYPE AC CABLE, ELECTRICAL NONMETALLIC TUBING, AND RIGID NONMETALLIC CONDUIT SHALL BE PERMITTED TO BE INSTALLED IN THOSE BUILDINGS OR PORTIONS THEREOF THAT ARE NOT REQUIRED TO BE OF FIRE-RATED CONSTRUCTION BY THE APPLICABLE BUILDING CODE.

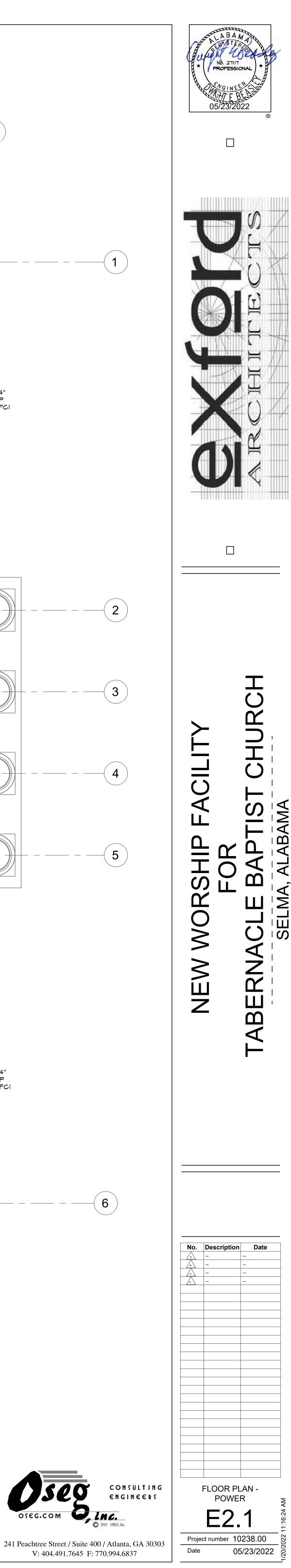
<u>KEYNOTES</u>

- $\langle | \rangle$ EXTEND AND CONNECT TO LIGHT FIXTURE THIS ROOM, REFER TO DWG. I/EI.I FOR CONTINUATION.
- $\langle 2 \rangle$ provide a duplex receptacle and JBOX for TV at a mounting HEIGHT OF 60" AFF, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- $\langle 3 \rangle$ DUPLEX RECEPTACLE TO BE MOUNTED AT 6'-0" AFF FOR MICROWAVE.
- $\langle \overline{4} \rangle$ provide a duplex receptacle and JBOX for TV at a mounting HEIGHT OF 72" AFF, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- (5) PROVIDE CEILING MOUNTED JBOX FOR CAMERA ALONG WITH I" CONDUIT STUBBED ABOVE CEILING, EXTEND AND TERMINATE IN THE AV ROOM 104 WITH PULL STRING. COORDINATE EXACT LOCATION OF DEVICE PRIOR TO ROUGH-IN.
- (6) PROVIDE A DUPLEX RECEPTACLE AND JBOX FOR TV AT A MOUNTING HEIGHT OF 96" AFF, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN. $\langle \underline{1} \rangle$ provide wall mounted JBOX for camera along with I" conduit
- STUBBED ABOVE CEILING, EXTEND AND TERMINATE IN THE AV ROOM 104 WITH PULL STRING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF DEVICE PRIOR TO ROUGH-IN.
- $\langle \overline{\partial} \rangle$ provide ceiling mounted JBOX for speaker along with 1" conduit STUBBED ABOVE CEILING, EXTEND AND TERMINATE IN THE AV ROOM 104 WITH PULL STRING. COORDINATE EXACT LOCATION OF DEVICE PRIOR TO ROUGH-IN.
- $\langle \overline{\mathtt{q}} \rangle$ provide Walker/Wiremold 12'XIO' Floor Box for voice, data and POWER (I) 20A/IP DEDICATED CIRCUIT.
- \bigcirc PROVIDE JBOX FOR SPEAKER TO BE MOUNTED IN THE FACE OF THE PULPIT PLATFORM, COORDINATE EXACT LOCATION OF DEVICE PRIOR TO ROUGH-IN, ROUTE TO STUB-UP IN STUD WALL.
- $\langle || \rangle$ provide wall mounted JBOX for speaker to be mounted at 18'-0" AFF, ALONG WITH I" CONDUIT STUBBED ABOVE CEILING, EXTEND AND TERMINATE IN THE A/V ROOM 104 WITH PULL STRING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF DEVICE PRIOR TO ROUGH-IN.
- $\langle \overline{2} \rangle$ provide J-box for power baptistry heater and control system, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT REQUIREMENTS OF J-BOX PRIOR TO ROUGH-IN.
- (3) PROVIDE (2) 2" CONDUIT WITH PULL STRING, EXTEND TO AV ROOM FIO4, COORDINATE FINAL TERMINATION POINT WITH THE A/V CONSULTANT PRIOR TO ROUGH-IN.
- (4) PROVIDE (1) I" CONDUIT WITH PULL STRING, EXTEND AND TERMINATE IN THE AV ROOM 104. COORDINATE CONDUIT SIZE WITH A/V CONSULTANT PRIOR TO ROUGH-IN.
- $\langle\overline{5}\rangle$ locations of devices and equipment indicated in this room are PROPOSED AND FOR PRICING PURPOSES "ONLY". THE CONTRACTOR SHALL COORDINATE WITH THE A/V CONSULTANT FOR ACTUAL DEVICE REQUIREMENTS, LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO ROUGH-IN.
- $\overline{(6)}$ QUADRUPLEX MOUNTED UNDER COUNTER TOP, DRILL AND PROVIDE GROMMETS IN MILLWORK AS REQUIRED.





FIRST FLOOR PLAN - POWER NORTH



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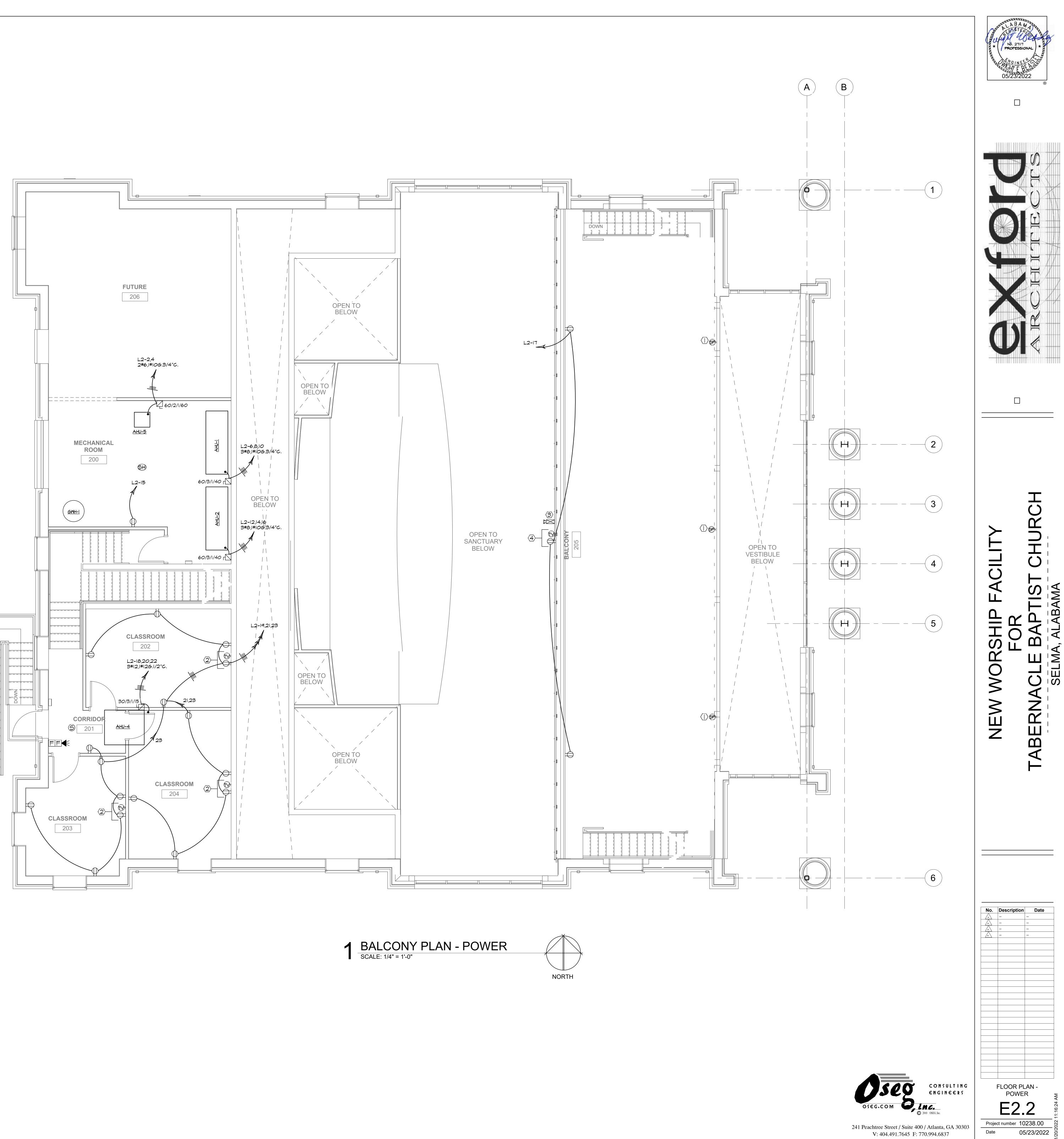
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- 5. THE CONTRACTOR SHALL REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF EQUIPMENT.

KEYNOTES

- $\langle \bar{|} \rangle$ provide wall mounted JBOX for speaker to be mounted 2'-0" Below the ceiling, along with 1" conduit stubbed above ceiling, EXTEND AND TERMINATE IN THE AV ROOM 104 ON THE FIRST FLOOR WITH PULL STRING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF DEVICE PRIOR TO ROUGH-IN.
- $\langle \overline{2} \rangle$ provide a duplex receptacle and JBOX for TV at a mounting HEIGHT OF 60" AFF, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- $\langle 3 \rangle$ PROVIDE WALL MOUNTED JBOX IN FACE OF BALCONY FOR CAMERA ALONG WITH I" CONDUIT STUBBED INTO CEILING, EXTEND AND TERMINATE IN THE AV ROOM 104 ON THE FIRST FLOOR WITH PULL STRING. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF DEVICE PRIOR TO ROUGH-IN.
- (4) PROVIDE A DUPLEX RECEPTACLE AND JBOX FOR TV IN FACE OF BALCONY, COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.

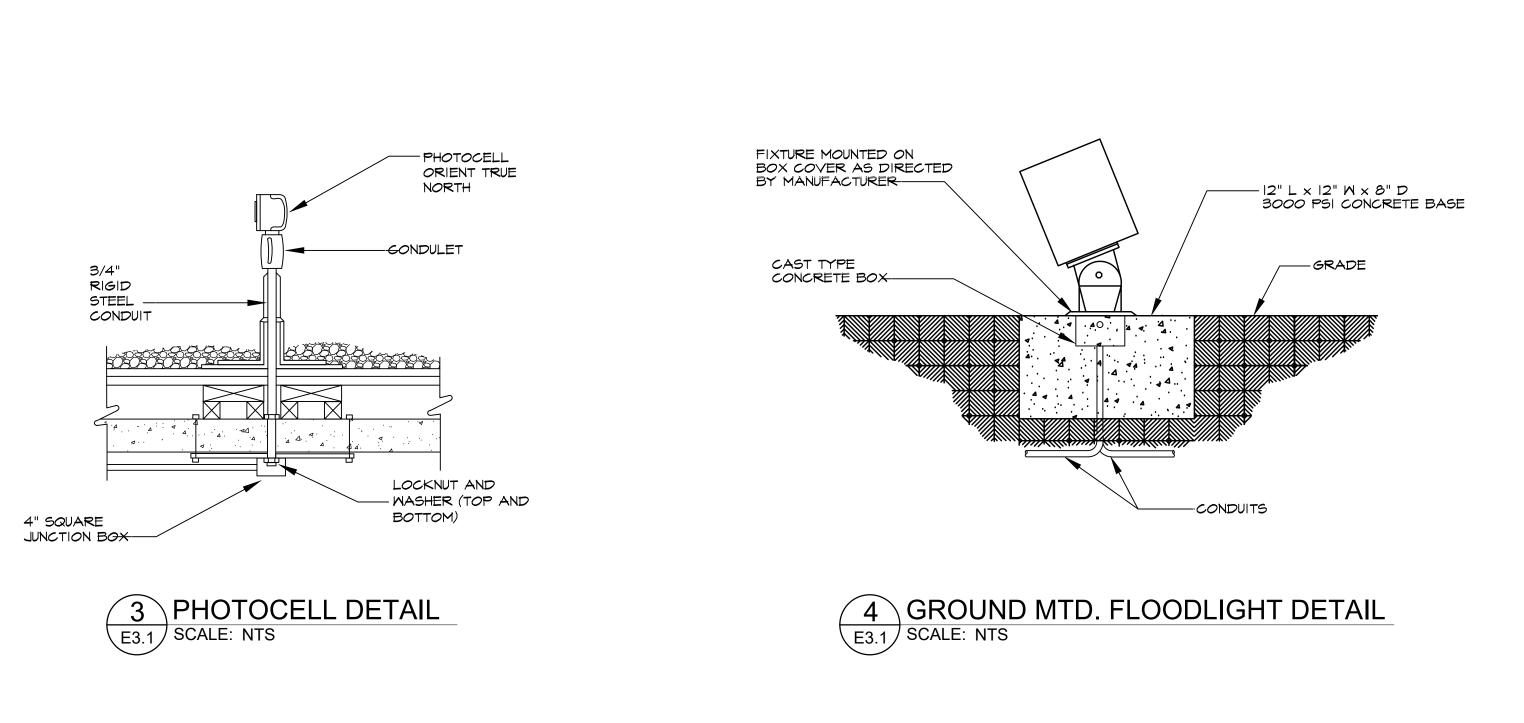
PROVIDE J-BOX FOR CONNECTION TO RECIRC. PUMP, REFER TO PLUMBING DWG. I/PI.I FOR ACTUAL LOCATION AND COORDINATION.

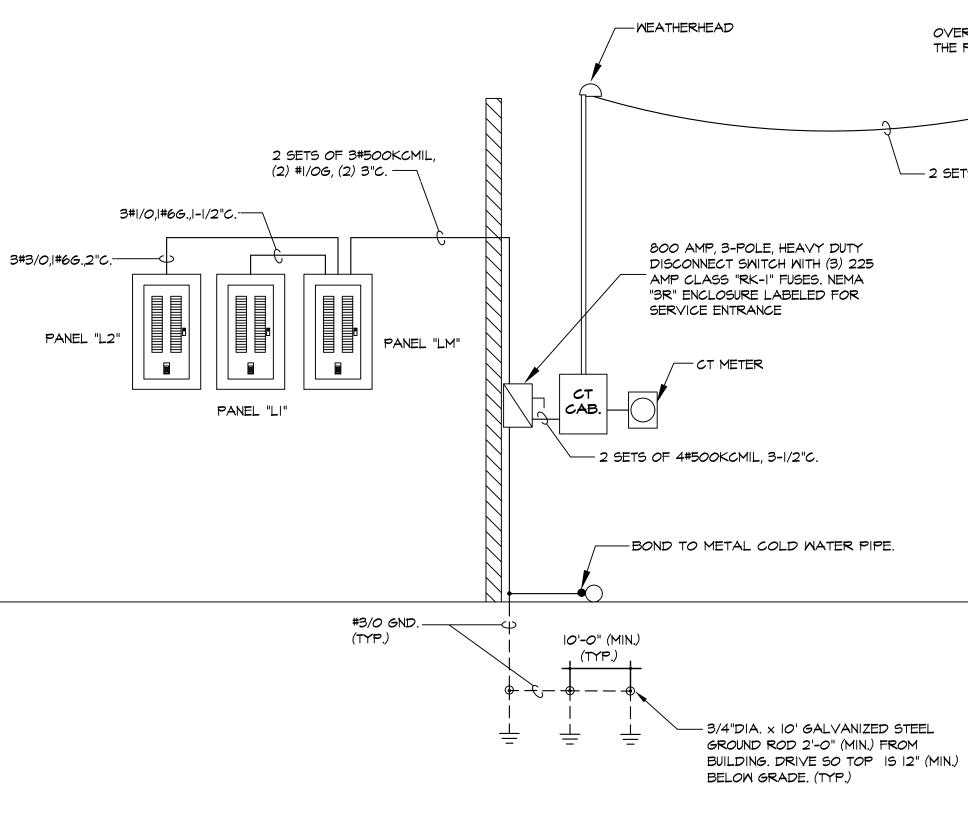
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BUS:		·····	T		PHASE:	3		CONINI	AIC: ECTED LO	: 22 kA		T. EL	1 LOAD	1				
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 1	20/1	A	CORRIDO	OR/FLEC	RM/JAN (DTIOF		1.8			<u> </u>	CORR/FLEC R	M/IANCIO	RECP	TYPE B	20/1	2	
3	20/1	A				LET/WK RM LTC 0.7			1.5		1.3 CORR/ELEC RM/JAN CLO RECP 0.8 WORK RM RECP				B	20/1	4	
5	20/1	A			OR ROBE I			-	1.0	1.5	1.0	WORK RM RE			B	20/1	6	
7	20/1	A			T ENTRA		0.6	2.4			1.8	ORCHESTRA I			B	20/1	8	
9	20/1	A	CRUCIFI				0.7		1.9		1.2	SANCTUARY/		CP	В	20/1	10	
11	20/1	A	EXT BLD	GLTG			0.2			2.0	1.8	ORCHESTRA I	PIT RECP		В	20/1	12	
13	20/1	A	PYLON/E	BLDGFLC	DOD LTG		1.2	2.2	7		1.0	CLASSRM 124	& 125 RECP)	В	20/1	14	
15	20/1	В	CONFER	ENCE RM	1 RECP		1.2		2.5		1.3	CLASSRM 126 & 127 RECP			В	20/1	16	
17	20/1	В	COFFEE	MAKER			1.2			2.7	1.5	MICROWAVE			В	20/1	18	
19	20/1	В	EWC/RES	C/RESTRMS RECP				1.9			0.5	EXTERIOR REC			В	20/1	20	
21	20/1	В	PASTOR		1.4 0.7		2.8			1.4 TIOLET/VEST/USHER RM REC			В	20/1	22			
23	20/1	В		TERIOR RECP						2.2	1.5	TIOLET/VEST/			В	20/1	24	
25	20	G	COPIER	ER				3.5			2.8	BAPTISTRYH	TG& CTRL	SYS (2)	G	40	26	
27	2	G		♦			0.7	-	3.5		2.8	<u>↓</u>			G G	2	28	
29	20/1	G	IT EQUIP				1.2			3.5	2.3	UPS				30	30	
31	20/1	G	IT EQUIP				1.2	3.5	0.0	1	2.3	∳ (D+DE	*		G	$\frac{2}{2}$	32	
33	20/1	G	IT EQUIP				0.8	0.8		1.5		SPARE				20/1	34	
35	20/1	G	AV EQUI	IPMENI			1.5		٦	1.5		SPARE SPARE				20/1	36	
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Туре	· I	Descriptio	n	KVA	KVA		Referenc			Туре		Description	KVA	KVA	1	Reference		
A		Lighting		4.4	5.5		NEC Table 220.42		-	E	Kitchen Equipme						EC Table 220.56	
В	R	Receptacle		21.0	15.5		er NEC Table 220.42			F		Motor				NEC Table		
С		-Condition					EC Articl			G		Other	16.1	16.1				
D		ating (Fix	*			Per NE	EC Article	220.51		Н		Subpanels						
hase A	Connecte	d Load	15	5.2									LOCAT	ION:	ELEC RN	М		
hase B	Connected	d Load	13	3.0	TOTA	L CONN	ECTED I	.OAD:	41.5	5 KVA	115.5	5 AMPS	FEED F	FEED FROM:				
hase C	C Connected Load 13.4 TOTAL DEM					IAND LC	DAD:	37.1	KVA	103.2	AMPS	FEEDER SIZE:		SEE POWER DIA GRAM				
OTES:																		
			L BE BOL	T-ON TY	PE													
2) GFIC	CIRCUIT	BREAK	ER															

B/C, A/C REGARDLESS OF THE CIRCUITING INDICATED.





1 POWER DIAGRAM - 208Y/120V SERVICE E3.1 SCALE: NTS

POWER COMPANY POLE MOUNTED UTILITY XFMR 208Y/120, 30 4W COORDINATE EXACT LOCATION, DETAILS AND METERING WITH THE POWER COMPANY

Load

A

)TES

PRIMARY BY THE S POWER COMPANY

WIRE TIE OR SCREW — BAR HANGER TO CROSS BEAM (TYP.)

CEILING MAIN BEAM FIXTURE WHIP -FROM JUNCTION BOX 5 DOWNLIGHT GYPBOARD CEILING DETAIL E3.1 SCALE: NTS

RECESSED

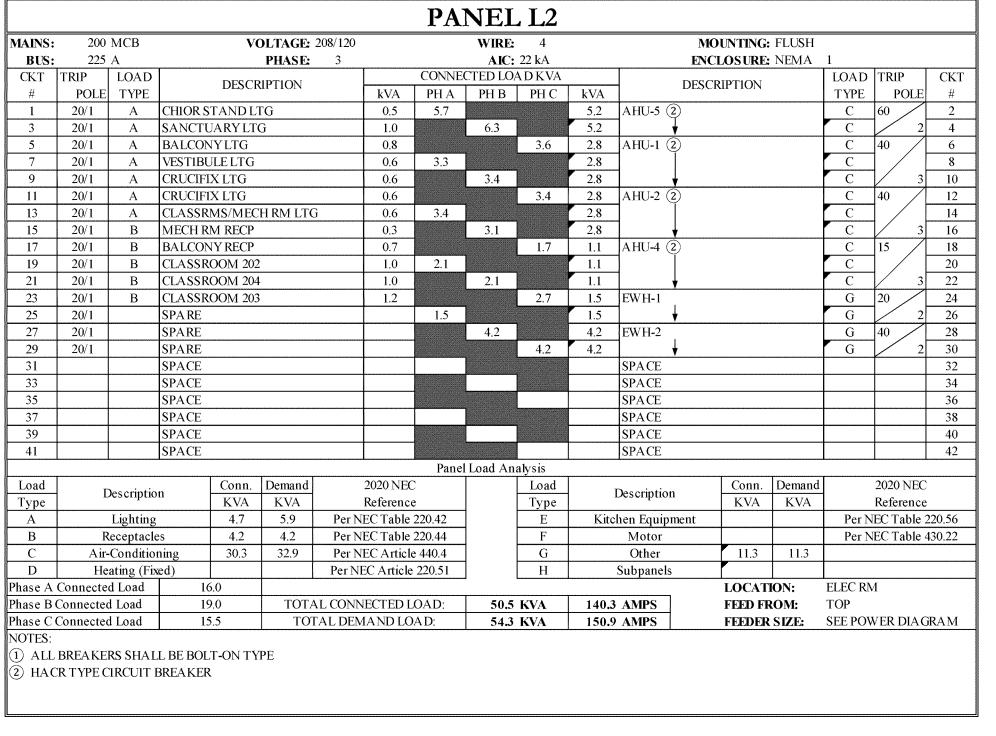
DOWNLIGHT

LUMINAIRE

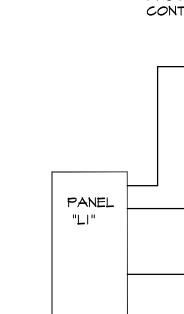
CEILING HANGER WIRE (TYP.)

CEILING CROSS BEAM

PROVIDE PITCH POCKET WHERE CONDUIT PENETRATES ROOF

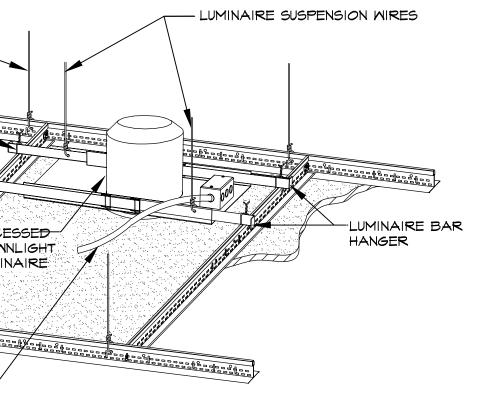


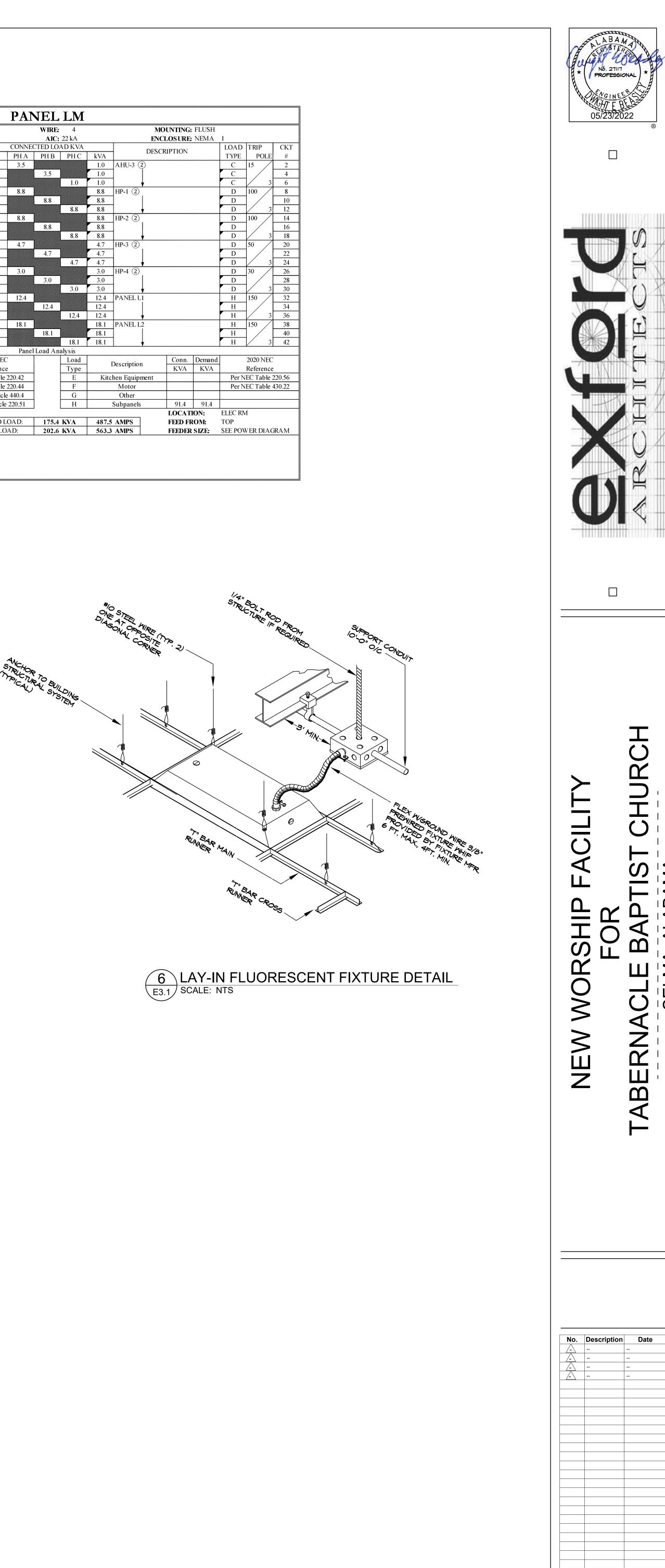


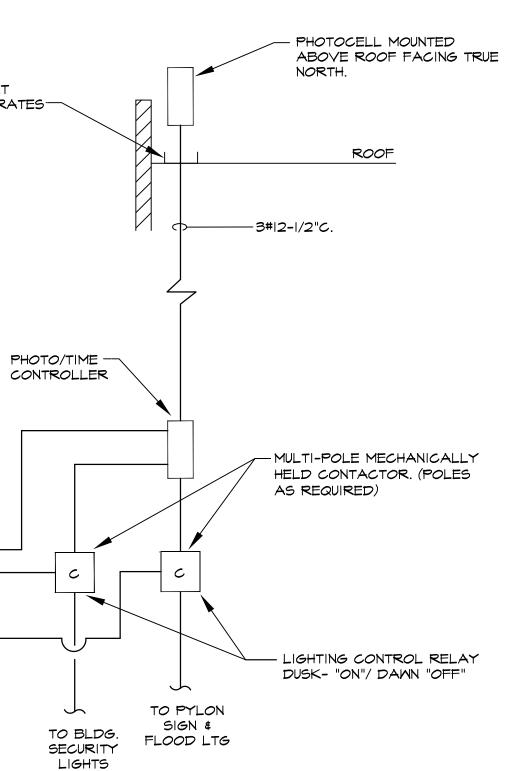




								PA	NEL	LM									
MAINS:	800 N	MCB		V	OLTAGE:	208/120		WIRE: 4						MOUNTING: FLUSH					
BUS:	8 00 A	A			PHASE:	3	AIC: 22 kA					ENCLOSURE: NEMA 1							
CKT	TRIP	LOAD	DESCRIPTION				CONNE	CONNECTED LOAD KVA			DESC	RIPTION		LOAD TRIP CKT					
#	POLE	TYPE		DESCRIPTION			kVA	PHA	PH B	PHC	kVA				ТҮРЕ	POLE	#		
1	40	*****	HP-5 ②	1			2.5	3.5			1.0	AHU-3 2			С	15	2		
3	2	D		<u> </u>			2.5		3.5		1.0	_			C		4		
5	20/1		SPARE					0.0	1	1.0	1.0	•			C	3	6		
7	20/1		SPARE					8.8	0.0		8.8	HP-1 2			D	100	8		
9	20/1		SPARE						8.8	0.0	8.8	-			D		10		
11	20/1		SPARE					0.0	1	8.8	8.8	*			D	$\frac{3}{100}$	12		
<u>13</u> 15	20/1		SPARE					8.8	0.0		8.8 8.8	HP-2 2			D	100	14		
15	20/1 20/1		SPARE SPARE						8.8	8.8	8.8	4			D D		<u>16</u> 18		
17	20/1		SPARE					4.7	1	0.0	4.7	HP-3 (2)			D	50	20		
21	20/1		SPARE					4.7	4.7		4.7				D	30	20		
23	20/1		SPARE						— 4 .7	4.7	4.7				D	3	24		
25	20/1		SPACE					3.0	1	1 1 1	3.0	HP-4 (2)			D	30	26		
27			SPACE						3.0		3.0				D	³ /	28		
29			SPACE						L	3.0	3.0	┤ ↓			D	3	30		
31			SPACE					12.4			12.4	PANEL L1			Н	150	32		
33			SPACE						12.4		12.4	1 1			Н		34		
35			SPACE							12.4	12.4	1 ↓			Н	3	36		
37		*****	SPACE					18.1			18.1	PANEL L2			Н	150	38		
39			SPACE						18.1		18.1]			Н		40		
41			SPACE							18.1	18.1	↓			Н	3	42		
									l Load An	alysis									
Load	De	escription	n	Conn.	Demand	2020 NEC				Load		Description	Conn.	Demand		2020 NEC			
Туре				KVA	KVA	Reference				Туре	-		KVA	KVA		Reference			
<u>A</u>		Lighting					EC Table 220.42		4	E	Kitc	hen Equipment				EC Table 2			
B		eceptacle			ļ			EC Table 220.44		F		Motor			Per N	EC Table 4	130.22		
C		Condition		2.9			EC Articl			G		Other							
D		ting (Fix		81.1	107.6	Per Nl	EC Artick	e 220.51]	H		Subpanels	91.4	91.4		<i>x</i>			
	Connected		59			LCOND				¥287A	40.8.5	LOCATION:			ELEC RM				
	Connected		59				ECTED I		175.4			87.5 AMPS FEED FROM:			TOP SEE POWER DIAGRAM				
J	Connected	Load	56	.δ	1 101	AL DEN	IAND LO	JAD;	202.6	KVA	563.3	AMPS	FEEDER	SIZE:	SEE POV	VEK DIAG	кам		
NOTES: (1) ALL	BREAKER	с сцат			ΦF														
\sim	'R TYPE CI				а II-														







2 EXTERIOR LIGHTING CONTROL DETAIL E3.1 SCALE: NTS



seg CONSULTING ENGINEERS OSEG.COM

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Date

SCHEDULES, DIAGRAM &

DETAILS

E3.1

Project number 10238.00

Date

05/23/2022