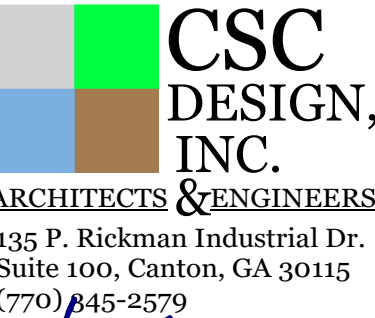


# FELLOWSHIP OF THE HILLS

located at

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512



JOB: 22-034

DRW: 50

CHK:	KBW
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[illegible]

# FELLOWSHIP OF THE HILLS

91 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

## COVER SHEET

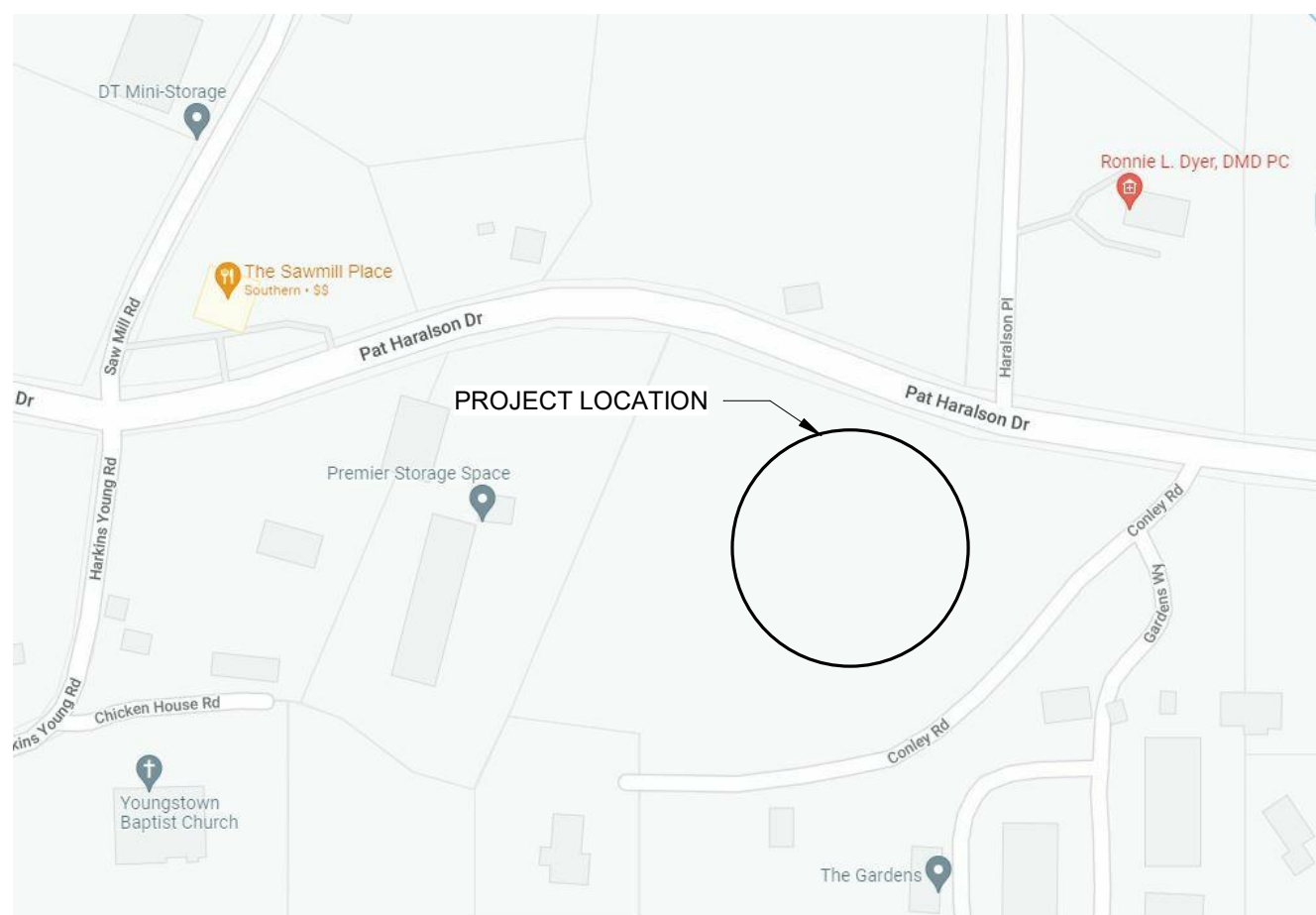
A-0.0

DATE: 07/22/2022

## SCOPE OF WORK

The Fellowship of the Hills church will be constructing a new 11,600 sf church facility with additional +/- 5,700 sf 2nd floor. Primary Structural system to be that of a Pre-Engineered Metal Building (PEMB) with wood infill exterior walls, wood interiors walls, and wood framed floor/ ceiling system. Building will be fully sprinkled and utilize propane fired air handlers and water heater.

## VICINITY MAP



## PROJECT TEAM

**OWNER**

FELLOWSHIP OF THE HILLS  
MR. DAN NAVE & MR. MARTY DUNCAN  
GC 991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512  
Fnave@windstream.net  
martyvd@msn.com

## ARCHITECT

CSC DESIGN, INC  
CONTACT: KEVIN WHIPPLE, RA  
135 P. RICKMAN INDUSTRIAL DR. SUITE 100  
CANTON, GA 30115  
770-345-2579  
EMAIL: KWHIPPLE@CSCDE.COM

**MECH. & PLUMBING ENGINEER**

S & S ENGINEERS LLC  
CONTACT: LES SANDERS, PE  
145 CHURCH STREET NE, STE. 240  
MARIETTA, GA 30060  
7709338842  
EMAIL: LES@SANDSENGR.COM

**ELECTRICAL ENGINEER**

TL ENGINEERING  
CONTACT: TIM LEE  
5842 NORFOLK CHASE RD.  
PEACHTREE CORNERS, GA 30092  
6784398664  
EMAIL: LES@SANDENGR.COM

## STRUCTURAL

WHITE ENGINEERING, LLC  
CONTACT: DAVID WHITE, P.E.  
2436 MURIFIELD WAY  
DULUTH, GA 30096  
770-296-5182  
EMAIL: [dauidalanwhite@bellsouth.net](mailto:dauidalanwhite@bellsouth.net)

## CODE ANALYSIS

### Codes In Effect

International Building Code, 2018 Edition, with Georgia Amendments (2020) (2022)  
International Residential Code, 2018 Edition, with Georgia Amendments (2020) (2022)  
International Fire Code, 2018 Edition, with Georgia Amendments (2020)  
International Plumbing Code, 2018 Edition, with Georgia Amendments (2020) (2022)  
International Mechanical Code, 2018 Edition, with Georgia Amendments (2020) (2022)  
International Fuel Gas Code, 2018 Edition, with Georgia Amendments (2020) (2022)  
National Electrical Code, 2020 Edition, with Georgia Amendments (2021)  
International Energy Conservation Code, 2015 Edition, with Georgia Supplements and Amendments (2020) (2022)  
2018 NFPA 101 Life Safety Code, with Georgia Amendments  
2010 ADA Standards

Authority Having Jurisdiction	Blairsville, Georgia
Building Occupancy Classification (NFPA)	6.1.2 - Assembly (I)
Allowable Area (IBC Table 506.2)	38,000sf / story (with
Area Provided	First Floor = 11,200
Occupant Load (LSC Table 7.3.1.2)	553 Occupants (Re
Type Of Construction (IBC 601)	VB Sprinkled
Allowable Height (IBC Table 504.3)	60'-0"
Height Provided	28'-0"
Allowable Stories (IBC Table 504.4)	2
Stories Provided	2

Fire Rating (IBC)	Walls & Partitions	Opening Protectives
Mixed Occup. Separation Rating (Table 508.4)	N/A	N/A
Fire Partitions (IBC 2018 - 708)	N/A	N/A
Bearing Walls (Exterior)	0	N/A
Bearing Walls (Interior)	0	N/A
Stair Wells	1 hr.	1 hr.
Structural Columns	0	N/A
Structural Beams	0	N/A
Floor / Ceiling Assembly	0	N/A
Roof Assembly	0	N/A

Fire Protection System (LSC 2018)	Sprinkled NFPA 13
Fire Extinguishers 10 lb ABC Surface Mounted	Max Distance Allowed: 75 feet

Means of Egress (LSC)			
Exits (LSC 2018)		Required - 2	Provided - 6
Travel Distance (LSC 2018)		Maximum = 250' (sprinkled)	113' - 3"
Dead End Corridor (LSC 2018)		Maximum = 20' (sprinkled)	None
Units of Egress (LSC 2018 - Table 7.3.3.1)		Required: 553 x 0.2 = 110	Provided - 264

Plumbing Fixture Calculation	Water Closets		Lavatories		Drinking Fountains
A3 - Assembly Facilities Requires:	Men=1 per 150	Women=1 per 75	Men=1 per 200	Women=1 per 200	1 per 1,000
Total Occupant Load = 553 (Men= 278, Women= 278)	278/150 = 2	278/75 = 4	278/200 = 2	278/200 = 2	1
Provided	4	4	2	2	2

## SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUED FOR CONSTRUCTION 07/22/22										
-----------------	------------	----------------------------------	--	--	--	--	--	--	--	--	--	--

00 GENERAL									
A-0.0	COVER SHEET	•							
A-0.1	GENERAL INFORMATION	•							
A-0.2	ADA DETAILS	•							

02 ARCHITECTURE			
A-0.3	LIFE SAFETY PLAN - FIRST FLOOR PLAN	•	
A-0.4	LIFE SAFETY PLAN - SECOND FLOOR	•	
A-0.5	RATED PARTITIONS	•	
A-0.6	PARTITION TYPES	•	
A-0.7	ADA ACCESSORIES & MOUNTING HEIGHTS	•	
A-1.1	FIRST FLOOR PLAN	•	
A-1.2	SECOND FLOOR PLAN	•	
A-2.1	RCP-FIRST FLOOR	•	
A-2.2	RCP-SECOND FLOOR	•	
A-3.1	ROOF PLAN	•	
A-4.1	EXTERIOR ELEVATIONS	•	
A-5.1	SECTIONS	•	
A-5.2	WALL SECTIONS	•	
A-6.1	ENLARGED KITCHEN PLANS & ELEVATIONS	•	
A-6.2	MILLWORK SECTIONS	•	
A-6.3	ENLARGED RESTROOM PLANS & DETAILS	•	
A-7.1	DOORS AND WINDOWS SCHEDULE	•	
A-7.2	DOOR / WINDOW / FINISH DETAILS	•	
A-8.1	VERTICAL CIRCULATION	•	

03 STRUCTURAL						
S-1	GENERAL NOTES	•				
S-2	GENERAL NOTES	•				
S-3	PLANS	•				
S-4	CANOPY PLANS AND SECTIONS	•				
S-5	SECTIONS	•				

04 MECHANICAL									
M-1.0	MECHANICAL FIRST FLOOR PLAN	•							
M-1.1	MECHANICAL SECOND FLOOR PLAN	•							
M-1.2	MECHANICAL SECOND FLOOR GAS PLAN	•							
M-2.0	MECHANICAL DETAILS	•							
M-3.0	MECHANICAL SCHEDULES & NOTES	•							
M-3.1	MECHANICAL NOTES	•							

05 ELECTRICAL					
E-1.1	FIRST FLOOR POWER PLAN	•			
E-1.2	SECOND FLOOR POWER PLAN	•			
E-2.1	FIRST FLOOR LIGHTING PLAN	•			
E-2.2	SECOND FLOOR LIGHTING PLAN	•			
E-3.1	NOTES AND LEGEND	•			
E-3.2	RISER PANEL AND SCHEDULES	•			

06 PLUMBING					
P-1.0	PLUMBING FIRST FLOOR WASTE & VENT PLAN	•			
P-1.1	PLUMBING SECOND FLOOR WASTE & VENT PLAN	•			
P-2.0	PLUMBING FIRST FLOOR DOMESTIC WATER PLAN	•			
P-2.1	PLUMBING SECOND FLOOR DOMESTIC WATER PLAN	•			
P-3.0	PLUMBING RISERS	•			
P-4.0	PLUMBING SCHEDULES & NOTES	•			



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










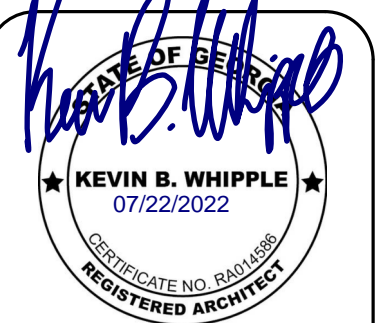
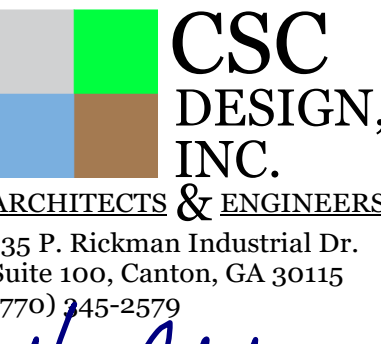
## LIFE SAFETY PLAN LEGEND

	FIRE EXTINGUISHER CABINET
	EXIT LIGHT
	DOOR EXIT CAPACITY DOOR CLEAR WIDTH
	TRAVEL DISTANCE
	1HR RATED WALL

OCCUPANCY SUMMARY (NET) LEVEL 1 - LS	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
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97	97
98	98
99	99
100	100

Number	Name	AREA PER OCCUPANT	TOTAL OCCUPANCY
101	STORAGE	500 SF	1
102	STAGE	15 SF	41
103	STORAGE	500 SF	1
104	SANCTUARY	15 SF	298
105	SOUND	15 SF	7
106	STORAGE	500 SF	1
107	CRY ROOM	15 SF	3
108	ELECTRICAL	500 SF	1
109	LOBBY	15 SF	80
110	WARMING KITCHEN	100 SF	4
111	ALCOVE		
112	MEN RR	150 SF	2
113	WOMEN RR	150 SF	2
114	STORAGE	500 SF	1
115	OFFICE	150 SF	2
116	OFFICE	150 SF	2
117	CLASSROOM	20 SF	17
119	STORAGE	500 SF	1
120	RISER ROOM	500 SF	1
121	CLASSROOM	20 SF	8
122	CLASSROOM	20 SF	8
123	NURSERY	20 SF	9
124	RR	150 SF	1
125	PRE-SCHOOL	20 SF	9
126	CLASSROOM	20 SF	9
127	STAIR		
128	OFFICE	150 SF	1
129	FAMILY RR	150 SF	1
130	STORAGE	500 SF	1
131	HALLWAY		
132	CHILDREN'S CHECK-IN	15 SF	33
133	HALLWAY		
201	BALCONY		
202	MECHANICAL	500 SF	1
203	OFFICE	150 SF	2
204	OFFICE	150 SF	2
206	STORAGE	500 SF	7

TOTAL OCCUPANT LOAD	553
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JOB:	22-034
------	--------

DRW:	SO
CHK:	KBW

[illegible]

**FELLOWSHIP OF THE HILLS**  
991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

LIFE SAFETY  
PLAN -  
SECOND  
FLOOR

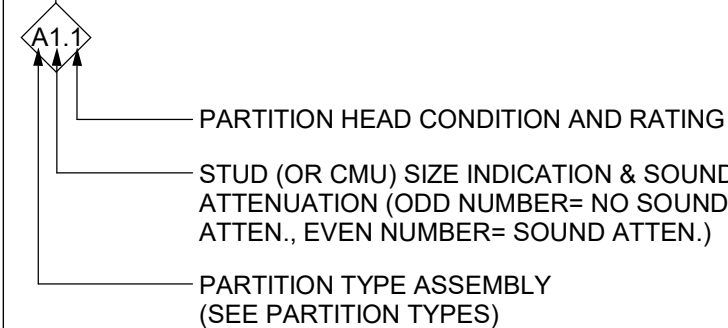
A-0.4

DATE: 07/22/2022









PARTITION HEAD CONDITION & RATING LEGEND	
1	Good
2	Fair
3	Poor
4	Very Poor
5	Severely Damaged

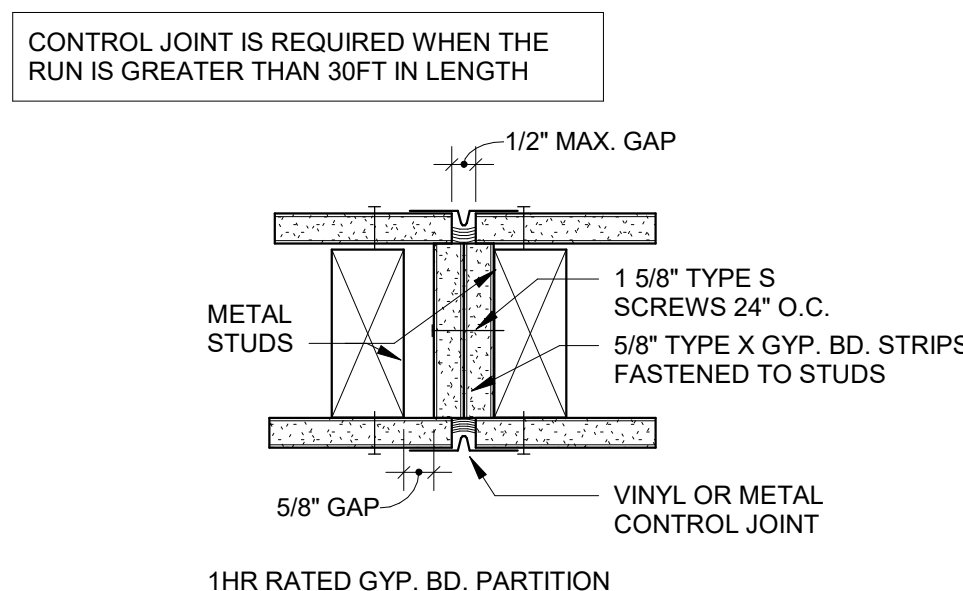
.0	PARTIAL HEIGHT PARTITION. SEE FLOOR PLANS FOR HEIGHT
.4	PARTITION TO 12" MIN. ABOVE CEILING - EXTEND STUD TO STRUCTURE
.5	PARTITION TO 12" MIN. ABOVE CEILING ONE SIDE AND TO UNDERSIDE OF DECK/ SLAB ON OTHER SIDE. STUD TO STRUCTURE.
.8	PARTITION TO UNDERSIDE OF DECK/ SLAB- 1 HOUR RATED

**SEE LIFE SAFETY PLANS FOR SMOKE PARTITION AND RATED WALLS LOCATION AND EXTENT.**

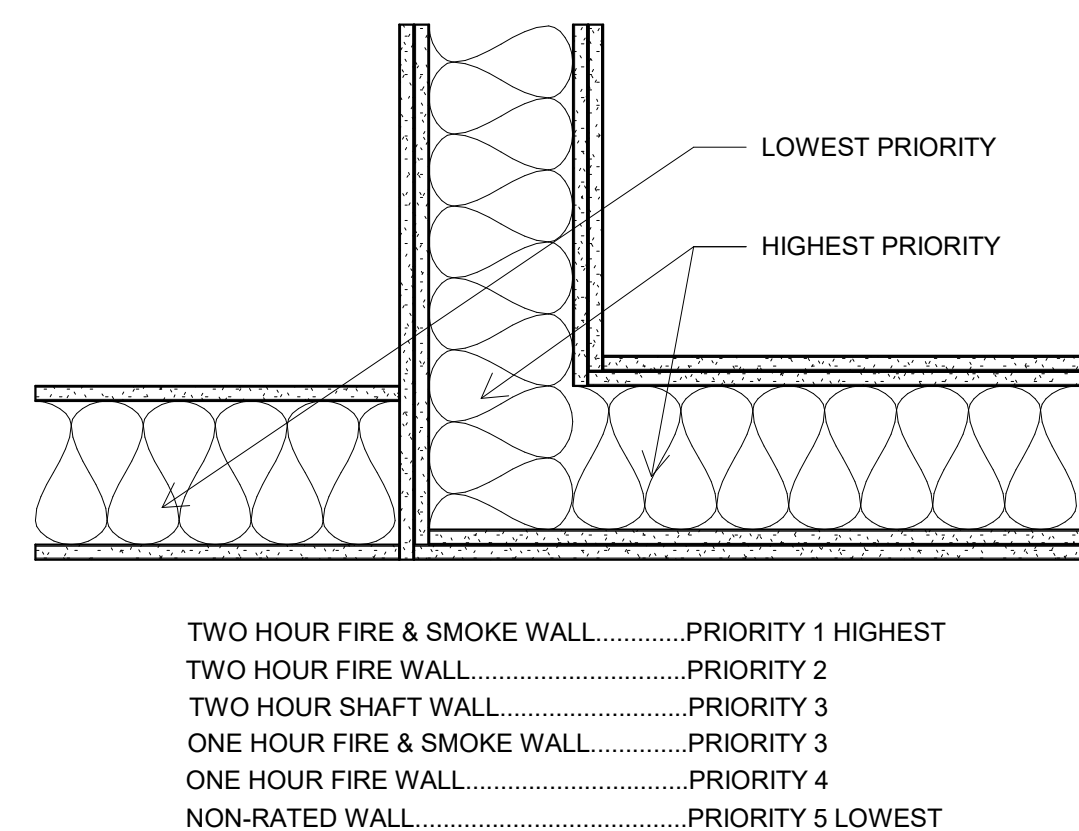
### GENERAL PARTITION TYPE NOTES

1. SEE FLOOR PLANS FOR LOCATION AND EXTENT OF PARTITIONS.
2. U.O.N. ALL PARTITION STUDS TO EXTEND TO THE UNDERSIDE OF STRUCTURE, 16" O.C. MINIMUM
3. U.O.N. ALL GYPSUM WALL BOARD TO EXTEND A MINIMUM OF 12" ABOVE THE NEAREST ADJACENT CEILING.
4. USE MOISTURE RESISTANT GYPSUM BOARD IN ALL WET AREAS AS PRESCRIBED BY THE INTERNATIONAL BUILDING CODE. PROVIDE MOISTURE RESISTANT BOARD ON ALL WALLS OF RESTROOMS.
5. ALL RATED PARTITIONS TO EXTEND TO UNDERSIDE OF O.F. AND METAL STUD FRAMING TO BE MINIMUM 20 GAUGE. IN ALL CASES, THE REQUIREMENTS OF U.O. OR THE SPECIFIED TESTING AGENCY SHALL GOVERN. NOTIFY THE ARCHITECT IN THE EVENT OF A DISCREPANCY PRIOR TO PROCEEDING WITH WORK.
6. CONTRACTOR SHALL MAINTAIN UL RATING OF PARTITION TIGHT TO UNDERSIDE OF STRUCTURE WHERE MATERIALS TRANSITION. COORDINATE WITH UL DETAILS ALLOW FOR DEFLECTION HEAD U.O.N.
7. WHERE PARTITIONS IN THE SAME PLANE ARE SCHEDULED WITH VARYING THICKNESS OR MULTIPLE LAYERS OF GYPSUM WALLBOARD, CONTRACTOR SHALL OFFSET THE STUDS OR PROVIDE THICKER GYPSUM WALLBOARD OVER TO THE NEAREST CORNER, (WALLS IN SAME PLANE MUST BE FLUSH).
8. ALL WOOD BLOCKING USED IN PARTITIONS SHALL BE FIRE RETARDANT TREATED OR METAL.
9. WHERE STEEL BEAMS AND/ OR JOISTS PENETRATE FIRE AND/ OR SMOKE RATED WALLS, PROVIDE FIRE-SAFING AT INTERSECTION OR BEAM AND/OR JOISTS AND METAL ROOF DECK.
10. AT INTERSECTIONS OF A RATED WALL WITH RATED OR NON-RATED WALLS, THE HIGHER PRIORITY (HIGHER RATED) WALL SHALL PASS THROUGH THE LESSER PRIORITY WALL.
11. SEAL ALL CONDUITS, PIPES, DUCTWORK, ETC., PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE RATING MATERIALS AS PER THE REQUIRED ASSEMBLIES.
12. DRYWALL PARTITIONS WHICH EXTEND TO STRUCTURE SHALL BE TIGHT AGAINST BEAMS, HEADERS, JOISTS OR DECKS & BE CAULKED WITH SEALANT. AT RATED PARTITIONS, PROVIDE UL LISTED SEALANTS.
13. BACK BOXES FOR ELECTRICAL, CABLE TV AND TELEPHONE MUST BE SEALED AIRTIGHT.
14. CUT-OUTS IN THE WALL BOARD FOR BOXES SHOULD BE PERIMETER CAULKED AND SEALED WITH AN EXPANDING POLYURETHANE FOAM SEALANT.
15. ALL 1 AND 2 HR WALLS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF THE ROOF DECK. SEAL TIGHT ALL OPENINGS PER NFPA.

**H1**  
A-0.6

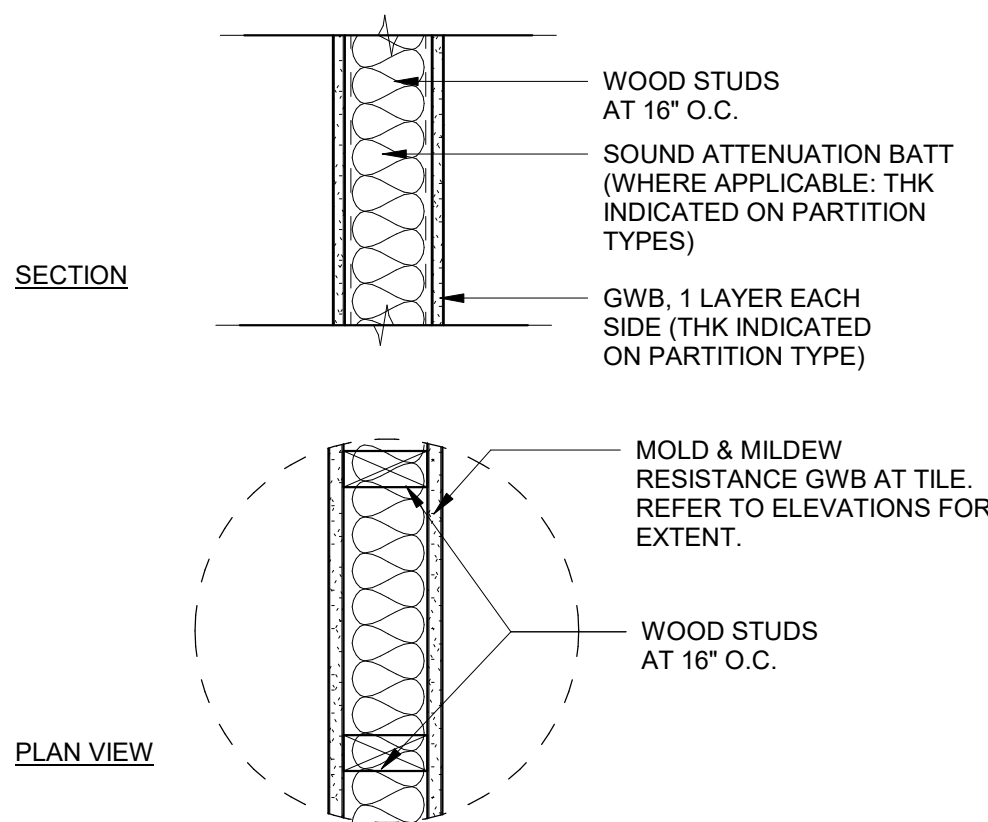


F1  
A-0.6



PROVIDE ALL RATED WALLS IN ACCORDANCE WITH UL LISTING. MANUFACTURER'S INSTRUCTIONS AND APPROVED HRS DETAILS. REFER TO LIFE SAFETY PLANS FOR TYPE, LOCATION AND EXTENT OF ALL RATED WALLS.

C1	<b>PRIOR</b>
A-06	1 1/2" = 1'-0"



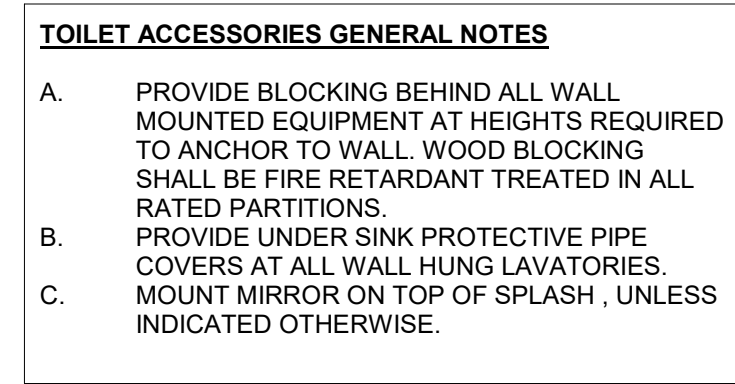
PARTITION TYPE: 'A' STANDARD PARTITION						
TYPE MARK	STUD WIDTH	GWB THK	FIRE RATING	UL RATING	SOUND BATT	PART. WIDTH
A8.0	3 1/2" WS	1/2"	N/A	N/A	4" SOUND BATT	4 1/2"
A8.4	3 1/2" WS	1/2"	N/A	N/A	4" SOUND BATT	4 1/2"
A8.5	3 1/2" WS	1/2"	N/A	N/A	4" SOUND BATT	4 1/2"
A8.8	3 1/2" WS	5/8"	1 HR.	U305	4" SOUND BATT	4 3/4"
A10.4	5 1/2" WS	1/2"	N/A	N/A	6" SOUND BATT	6"



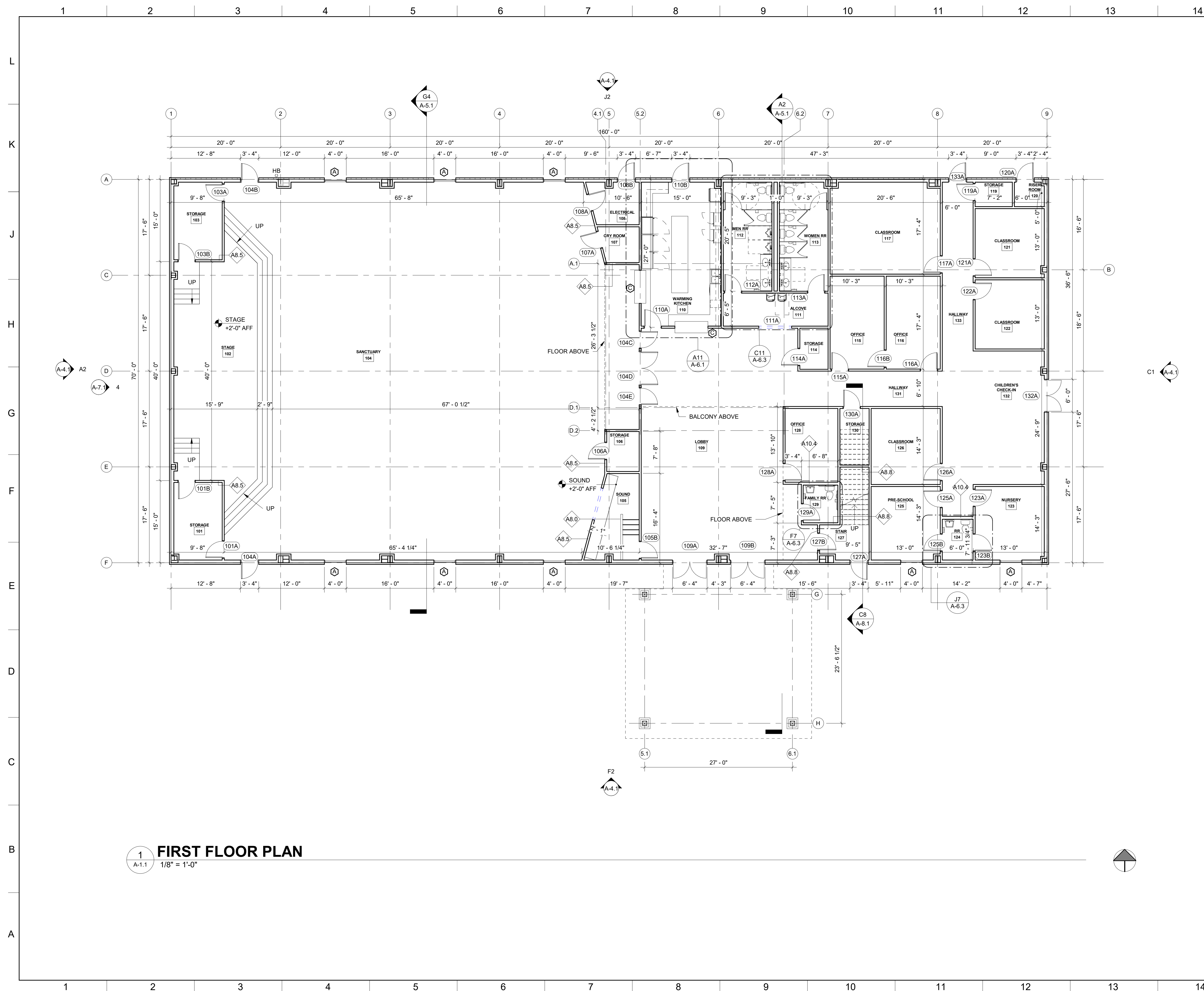
991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

## A-0.7

DATE: 07/22/2022














## FIRST FLOOR PLAN

$$1/8'' = 1'-0''$$

15		16	
PARTITION TYPE NOMENCLATURE			
		<p>PARTITION HEAD CONDITION AND RATING</p>	
		<p>STUD (OR CMU) SIZE INDICATION &amp; SOUND ATTENUATION (ODD NUMBER= NO SOUND ATTEN., EVEN NUMBER= SOUND ATTEN.)</p>	
		<p>PARTITION TYPE ASSEMBLY (SEE PARTITION TYPES)</p>	
FLOOR PLAN LEGEND			
		<p>NEW WALL</p>	
		<p>NEW COLUMN GRID LINE</p>	
		<p>NEW DOOR</p>	
		<p>PARTITION TYPE, COORDINATE WITH A-0.8</p>	

**FLOOR PLAN GENERAL NOTES:**

A. ALL PARTITION WALLS ARE OF TYPE A 8.4 UNLESS MENTIONED OTHERWISE, REFER SHEET A-0.8 FOR PARTITION DETAILS

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# FELLOWSHIP OF THE HILLS

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

FIRST FLOOR  
PLAN

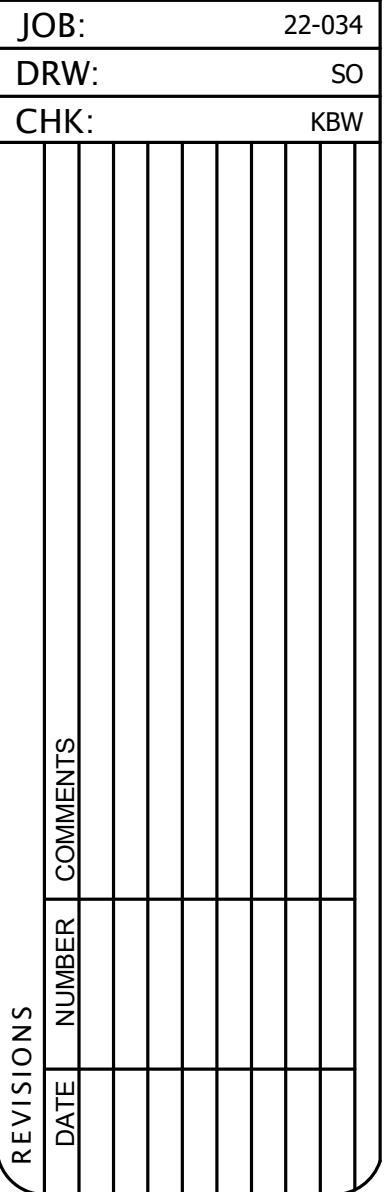
A-1.1

DATE: 07/22/2022



**FLOOR PLAN GENERAL NOTES:**

A. ALL PARTITION WALLS ARE OF TYPE A 8.4 UNLESS MENTIONED OTHERWISE, REFER SHEET A-0.8 FOR PARTITION DETAILS



9991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

DATE: 07/22/2022





**CEILING PLAN GENERAL NOTES:**

A. ALL SUSPENDED CEILINGS AT 9' UNLESS NOTED OTHERWISE

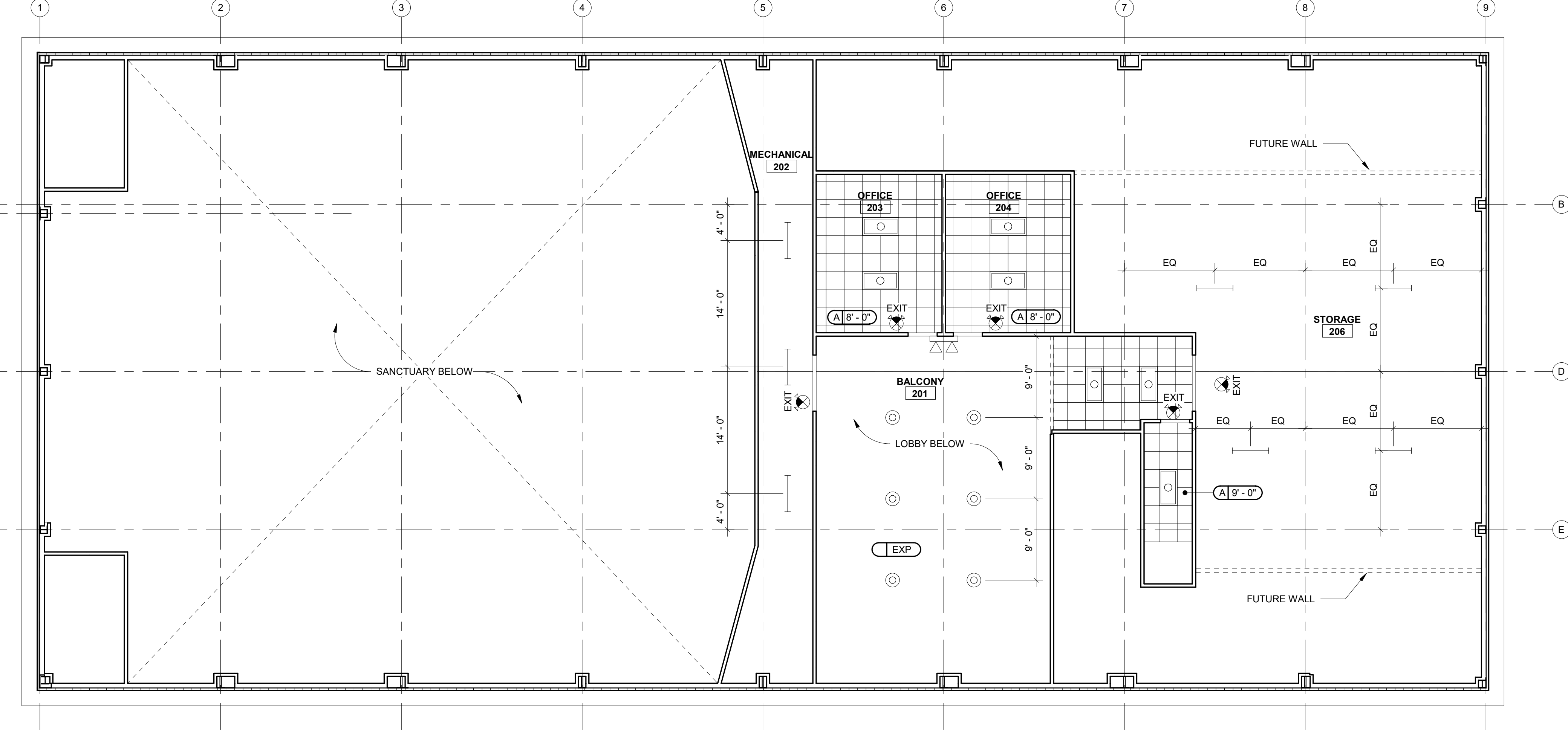
B. ALL GYP CEILINGS ATTACHED TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE

**FELLOWSHIP OF THE HILLS**  
991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

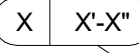
RCP-FIRST  
FLOOR

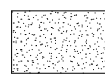




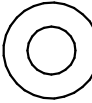



A-2.1

DATE: 07/22/2022



**RCP-SECOND FLOOR**

CEILING TYPE NOTES	
 <p>Diagram illustrating the notation for ceiling type and height. The notation consists of an oval containing 'X' followed by a box containing 'X-X'.</p>	<p>CEILING TYPE</p> <p>CEILING HEIGHT</p>
A1	ACOUSTICAL CEILING
G1	GYPSUM BOARD CEILING
W1	WOOD CEILING

REFLECTED CEILING PLAN LEGEND	
	PAINTED GYPSUM BOARD CEILING
	2 X 2 ACOUSTICAL LAY-IN CEILING SYSTEM
	2' x 4' LAY-IN LIGHT FIXTURE
	LED STRIP FIXTURE LIGHT
	RECESSED DOWNLIGHT
	PENDANT LED UFO FIXTURE
	LED EXTERIOR EMERGENCY LIGHT @ EXIT DOORS
	EXIT SIGN/ EMERGENCY LIGHT KIT AND BATTERY BACKUP
	WALL MOUNTED EMERGENCY LIGHT

[illegible]

# FELLOWSHIP OF THE HILLS


991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

RCP-SECOND  
FLOOR

## A-2.2

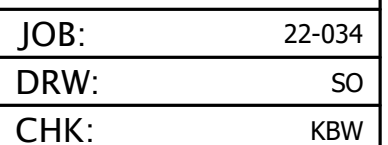
DATE: 07/22/2022





**CSC**  
**DESIGN,**  
**INC.**  
ARCHITECTS & ENGINEERS

135 P. Rickman Industrial Dr.  
 Suite 100, Canton, GA 30115  
 (770) 345-2579

[illegible]

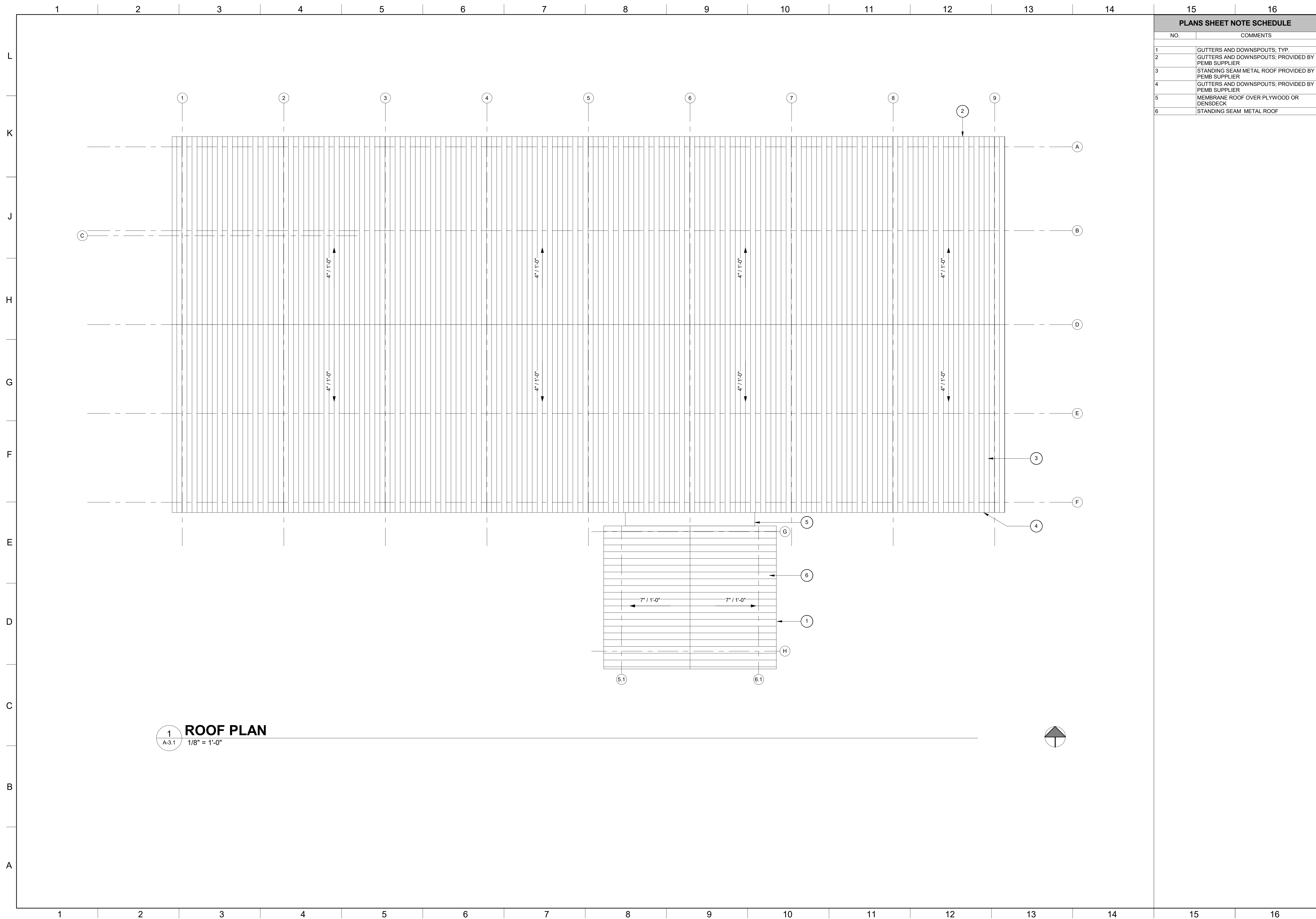
# FELLOWSHIP OF THE HILLS

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

## ROOF PLAN

### A-3.1

DATE: 07/22/2022





**CSC  
DESIGN  
INC.**  
**ARCHITECTS & ENGINEERS**  
135 P. Rickman Industrial Dr.  
Suite 100, Canton, GA 30115  
(770) 245-2579

*Kevin B. Whipple*

STATE OF GEORGIA

★ KEVIN B. WHIPPLE ★  
07/22/2022

CERTIFICATE NO. RA00856  
REGISTERED ARCHITECT

[illegible]

9991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

DATE: 07/22/2022





[illegible]

# FELLOWSHIP OF THE HILLS

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

## WALL SECTIONS

## A-5.2

DATE: 07/22/2022





MILLWORK  
SECTIONS

4

















	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L																
K																
J																
H																
G																
F																
E																
D																
C																
B																
A																
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<div>STRUCTURAL STEEL</div> <div>1. PROVIDE STRUCTURAL STEEL CONFORMING TO THE FOLLOWING STANDARDS:<div>a. AISC MANUAL OF STEEL CONSTRUCTION, 15th EDITION.</div><div>b. AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.</div></div> <div>2. SHOP DRAWINGS:<div>a. SUBMIT SHOP DRAWINGS PREPARED IN ACCORDANCE WITH AISC 326-09.</div><div>b. PROVIDE COMPLETE WELDING INFORMATION USING AWS SYMBOLS.</div><div>c. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS ARE COMPLETED AND REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD.</div></div> <div>3. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE FOLLOWING ASTM SPECIFICATIONS:<div>a. WIDE-FLANGE BEAMS-----A992 (GRADE 50)</div><div>b. SQUARE HOLLOW SHAPES-----ASTM A500 (GRADE B, Fy=46 KSI)</div><div>c. PLATES AND ANGLES-----ASTM A36 (Fy=36 KSI)</div><div>d. ANCHOR RODS-----ASTM F1554, GRADE 36</div><div>e. BOLTS-----ASTM A325</div><div>f. WASHERS-----ASTM F436, TYPE 1, HARDENED CARBON STEEL</div><div>g. THREADED RODS-----ASTM A36</div></div> <div>4. BOLTED CONNECTIONS:<div>a. UNLESS NOTED OTHERWISE, MAKE ALL CONNECTIONS WITH 3⁄8"Ø ASTM A325 BOLTS</div><div>b. ASSEMBLE AND INSPECT BOLTED CONNECTIONS IN ACCORDANCE WITH RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", 2014</div><div>c. PROVIDE SNUG TIGHT BOLTS.</div></div> <div>5. WELDED CONNECTIONS:<div>a. MAKE ALL WELDED CONNECTIONS IN ACCORDANCE WITH AWS D1.1-14 " STRUCTURAL WELDING CODE", USING TYPE E70XX ELECTRODES.</div><div>b. EMPLOY ONLY CERTIFIED WELDERS.</div><div>c. MAINTAIN PROOF OF CERTIFICATION AT THE JOB SITE.</div></div> <div>6. PROVIDE CONNECTION FOR BEAMS WHICH CANNOT CONFORM TO THE TYPICAL CONNECTION DETAILS IN ACCORDANCE WITH THE FOLLOWING:<div>a. WHERE MEMBER REACTIONS ARE NOT SHOWN ON THE DRAWINGS, DETAIL CONNECTIONS FOR THE MAXIMUM UNIFORM LOAD SHOWN IN THE MAXIMUM TOTAL UNIFORM LOAD TABLES, IN TABLE 3-6 OF THE AISC STEEL CONSTRUCTION MANUAL FOR THE SPAN SHOWN ON THE DRAWINGS.</div><div>b. WHERE REACTIONS ARE SHOWN, PROVIDE CONNECTIONS TO DEVELOP THE REACTIONS SHOWN.</div></div> <div>7. THE OWNER SHALL HIRE AN INDEPENDENT TESTING AGENCY TO PROVIDE SPECIAL INSPECTIONS OF BOLTING, WELDING AND OTHER ITEMS IN ACCORDANCE WITH SPECIFIED CODE. CONTRACTOR SHALL CLEARLY MARK THE GRADE OF STEEL ON EACH PIECE WITH A DISTINGUISHING MARK VISIBLE FROM THE FLOOR LEVEL FOR THE PURPOSE OF FIELD INSPECTION.</div> <div>8. ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING BRICK SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED.</div> <div>9. DO NOT USE GAS CUTTING TORCHES TO CORRECT FABRICATION ERRORS IN STRUCTURAL STEEL FRAMING.</div> <div>10. ALL FILLER MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.</div> <div>11. ALL HOLES IN STEEL SHALL BE DRILLED OR PUNCHED WITH SLOTTED HOLES HAVING SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.</div> <div>12. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING.</div>																
<div>FOUNDATION NOTES</div> <div>1. NOT USED</div> <div>2. THE DESIGN SOIL BEARING CAPACITY IS 2,000 PSF.</div> <div>3. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL GIVE CONSIDERATION TO THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN</div> <div>4. ALL EXCAVATIONS AND GRADES PREPARED FOR BEARING SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT NONCONFORMING CONDITIONS.</div> <div>5. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GROTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 95% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTION AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY.</div> <div>6. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED AND APPROVAL OBTAINED BEFORE FOOTINGS ARE TO BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.</div> <div>7. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE ARCHITECT, STRUCTURAL ENGINEER, AND GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING, OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED CONDITIONS.</div> <div>8. FROST DEPTH FOR THIS PROJECT IS 12" BELOW GRADE. FINISHED GRADE SHALL BE MAINTAINED A MINIMUM OF OF 12" ABOVE BOTTOM OF FOUNDATIONS.</div> <div>9. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.</div> <div>10. COORDINATE TOP OF FOOTINGS ELEVATIONS WITH THE REQUIREMENTS OF OTHER TRADES (PLUMBING, ELECTRICAL, ETC.)</div> <div>11. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. PIPING MAY PASS BELOW CONTINUOUS FOOTING WHERE INSTALLED IN ACCORDANCE WITH "TYPICAL PIPE UNDER FOOTING" DETAIL.</div> <div>C</div> <div>CAST-IN-PLACE REINFORCED CONCRETE</div> <div>1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".</div> <div>2. PORTLAND CEMENT SHALL BE TYPE I OR II, CONFORMING TO ASTM C150.</div> <div>3. CONCRETE SHALL BE NORMAL WEIGHT AND DEVELOPMENT A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS: ALL CONCRETE = 4,000 PSI</div> <div>4. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF THE CONCRETE PLACED. TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT AND ENGINEER. TEST REPORTS SHALL ALSO BE KEPT ON SITE FOR REVIEW BY INSPECTORS.</div> <div>5. CONCRETE SHALL REACH 75% OF THE TOTAL COMPRESSIVE STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED. CONCRETE STRENGTH SHALL BE VERIFIED WITH A 7-DAY CYLINDER BREAK.</div> <div>6. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.</div> <div>7. MILD STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 WITH A MINIMUM YIELD OF 60 KSI EXCEPT WELDED WIRE REINFORCING WHICH SHALL CONFORM TO ASTM A706, GRADE 60 AND WELDED IN ACCORDANCE WITH ASW D1.4.</div> <div>8. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS" AND DETAILED IN ACCORDANCE WITH ACI 315 "MANUEL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".</div> <div>9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A184. ALL WELDED FABRIC SHALL BE PROVIDED IN FLAT SHEETS NOT IN ROLLS.</div> <div>10. REINFORCEMENT BARS SHALL BE LAP SPLICED CLASS B AND CONFORM TO ACI 318. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO FULL PANELS AND TIED ON EACH SIDE.</div> <div>11. LONGITUDINAL CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS OF FOOTINGS.</div>																
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<div>WHITE ENGINEERING, LLC</div> <div>STRUCTURAL ENGINEERS</div> <div>2436 MUIRFIELD WAY</div> <div>DULUTH, GEORGIA 30096</div> <div>PHONE (770) 296-5182</div>																

FOUNDATION NOTES

1. NOT USED
2. THE DESIGN SOIL BEARING CAPACITY IS 2,000 PSF.
3. ALL FOUNDATIONS SHALL BE INSTALLED UNDER THE GUIDANCE OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER IN THE PROJECT STATE. THE GEOTECHNICAL ENGINEER SHALL GIVE CONSIDERATION TO THE TYPE OF BUILDING AND FOUNDATION LOADS INVOLVED AS WELL AS THE REQUIREMENTS OF THESE DOCUMENTS. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN
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6. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED AND APPROVAL OBTAINED BEFORE FOOTINGS ARE TO BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
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11. DO NOT EMBED PIPING WITHIN OR PASS PIPING VERTICALLY OR HORIZONTALLY THROUGH FOUNDATIONS WITHOUT REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. PIPING MAY PASS BELOW CONTINUOUS FOOTING WHERE INSTALLED IN ACCORDANCE WITH "TYPICAL PIPE UNDER FOOTING" DETAIL.
- CAST-IN-PLACE REINFORCED CONCRETE
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2. PORTLAND CEMENT SHALL BE TYPE I OR II, CONFORMING TO ASTM C150.
3. CONCRETE SHALL BE NORMAL WEIGHT AND DEVELOPMENT A MINIMUM 28-DAY COMPRESSIVE STRENGTH AS FOLLOWS: ALL CONCRETE = 4,000 PSI
4. TEST CYLINDERS SHALL BE TAKEN AS A REPRESENTATIVE SAMPLE OF THE CONCRETE PLACED. TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT AND ENGINEER. TEST REPORTS SHALL ALSO BE KEPT ON SITE FOR REVIEW BY INSPECTORS.
5. CONCRETE SHALL REACH 75% OF THE TOTAL COMPRESSIVE STRENGTH BEFORE CONSTRUCTION LOADS ARE APPLIED. CONCRETE STRENGTH SHALL BE VERIFIED WITH A 7-DAY CYLINDER BREAK.
6. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.
7. MILD STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 WITH A MINIMUM YIELD OF 60 KSI EXCEPT WELDED WIRE REINFORCING WHICH SHALL CONFORM TO ASTM A706, GRADE 60 AND WELDED IN ACCORDANCE WITH ASW D1.4.
8. MILD STEEL REINFORCEMENT SHALL BE PLACED AND SECURED IN ACCORDANCE WITH CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS" AND DETAILED IN ACCORDANCE WITH ACI 315 "MANUEL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
9. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A184. ALL WELDED FABRIC SHALL BE PROVIDED IN FLAT SHEETS NOT IN ROLLS.
10. REINFORCEMENT BARS SHALL BE LAP SPLICED CLASS B AND CONFORM TO ACI 318. WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO FULL PANELS AND TIED ON EACH SIDE.
11. LONGITUDINAL CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS OF FOOTINGS.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION. REFERENCE TO OTHER STANDARD SPECIFICATIONS OR CODES SHALL MEAN THE LATEST BUILDING CODE ADOPTED EDITION OR THE LATEST PUBLISHED EDITION
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4. NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.
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12. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC UNITS EXCEPT AS SHOWN ON THE DRAWINGS.
13. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.
14. REVIEW OF SUBMITTALS OR SHOP DRAWING BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. 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 CONTRACT DOCUMENTS.
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- DESIGN CRITERIA
1. BUILDING CODES AND STANDARDS.

a. 2018 INTERNATIONAL BUILDING CODE (IBC) WITH 2020 ED. GEORGIA AMENDMENTS.

b. ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"

c. ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"

d. AISC 15TH EDITION, "SPECIFICATIONS FO RSTRUCTURAL STEEL BUILDINGS"
2. DESIGN ROOF DEAD LOAD

a. 20 PSF
3. DESIGN ROOF LIVE LOAD

a. 20 PSF
4. DESIGN FLOOR LIVE LOAD

a. 100 PSF SLAB-ON-GRADE

b. 50 PSF ELEVATED FLOOR
5. DESIGN SNOW LOAD

a. GROUND SNOW LOAD, Pg=5 PSF
6. DESIGN WIND LOADS:

a. ULTIMATE DESIGN WIND SPEED, Vult-----115 MPH (3 SECOND GUST)

b. NOMINAL DESIGN WIND SPEED Vasd-----89 MPH

c. RISK CATEGORY-----III

d. WIND EXPOSURE CATEGORY-----B

e. IMPORTANCE FACTOR, Iw-----1.00

f. BUILDING ENCLOSURE TYPE-----ENCLOSED

h. INTERNAL PRESSURE COEFFICIENT (GCpi)-----±0.18

WHITE ENGINEERING, LLC

STRUCTURAL ENGINEERS  
2436 MUIRFIELD WAY  
DULUTH, GEORGIA 30096  
PHONE (770) 296-5182


CSC

DESIGN,

INC.

ARCHITECTS & ENGINEERS

135 P. Rickman Industrial Dr.  
Suite 100, Canton, GA 30115  
(770) 345-2579

			
JOB:		22-011	
DRW:		DAW	
CHK:		DAW	
REVISIONS	DATE	NUMBER	COMMENTS

FELLOWSHIP OF THE HILLS

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GEORGIA 30512

GENERAL NOTES

S-1

DATE: 6.2.2022



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WOOD FRAMING

GENERAL PROVISIONS:

1. SCOPE: FURNISH AND INSTALL ALL WOOD TRUSSES, ALL ROOF FRAMING, ROOF DECK, EXTERIOR SHEATHING, AND ALL BLOCKING, CLIPS, AND ACCESSORIES.
2. NOTES: FRAMING SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. ROOF TRUSSES SHALL BE DESIGNED TO WITHSTAND A MINIMUM 10 PSF DEAD LOAD PLUS EQUIPMENT LOADS IMPOSED UPON THEM IN ADDITION TO A MINIMUM LIVE LOAD OF 20 PSF EXCEPT WHERE THIS MINIMUM LIVE/SNOW LOAD IS EXCEEDED BY LOCAL REQUIREMENTS. IN THAT CASE, ROOF TRUSSES SHALL BE DESIGNED TO WITHSTAND ALL DEAD LOADS PLUS THE LOCAL REQUIRED LIVE LOADS. REFER TO STRUCTURAL FRAMING DRAWINGS.
3. QUALITY CONTROL: ALL PLYWOOD SHALL BE AMERICAN PLYWOOD ASSOCIATION (APA) GRADE-TRADE MARKED.
4. SHOP DRAWINGS: SUBMIT FOUR COPIES OF SEALED ENGINEERING SHOP DRAWINGS OF THE INTENDED TRUSS DETAILS TO THE OWNER'S REPRESENTATIVE.
5. DELIVERY AND STORAGE: WHEN DELIVERED TO THE SITE, THE MOISTURE CONTENT OF FRAMING LUMBER SHALL BE NOT MORE THAN 19%.

MATERIALS:

1. FRAMING, LUMBER FOR STUDS, POSTS, BLOCKING, PLATES, CEILING JOIST, TRUSSES, FURRING AND RAFTERS SHALL BE SOUTHERN PINE NO. 2 OR EQUAL GRADE WITH A MINIMUM EXTREME FIBER BENDING, FB OF 1200 PSI.
2. TREATED LUMBER: ALL LIMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE DECAY-RESISTANT PRESSURE-TREATED WITH WATER SOLUTION OF PRESERVATIVE CHEMICALS AND THEN AIR SEASONED OR KILN DRIED.
3. WALL SHEATHING: REFER TO STRUCTURAL NOTES ON DRAWINGS.
4. PLYWOOD ROOF SHEATHING: REFER TO STRUCTURAL NOTES ON DRAWINGS.
5. SHEET METAL ANCHORS AS REQUIRED SHALL CONFORM TO ASTM A-93 AND BE SIMPSON DESIGNATIONS SHOWN OR EQUAL.
6. NONCOMBUSTIBLE LUMBER AND PLYWOOD AS NOTED SHALL BE FIRE RETARDANT TREATED WITH PRESSURE-IMPREGNATED FIRE RETARD AND MONOMERIC RESIN SOLUTION AND THEN KILN DRIED TO CURE CHEMICALS IN WOOD. TREATMENT SHALL HAVE U.L. DESIGNATION OF FRS OR FLAME SPREAD RATING NOT GREATER THAN 25.
7. WOOD SLEEPERS TO BE KILN DRIED REDWOOD OR CYPRESS, GRADE B OR BETTER.
8. BLOCKING SUPPLIED AND INSTALLED BY INDIVIDUAL TRADES AS REQUIRED SHALL BE COORDINATED BY GENERAL CONTRACTOR FOR PROPER LOCATION AND INSTALLATION.
9. FASTENERS:
- A. NAILS SHALL BE COMMON STEEL WIRE FEDERAL SPECIFICATIONS FF-N-101 EXCEPT AS OTHERWISE NOTED. LENGTH SHALL BE 2½ TIME THICKNESS OF PIECE NAILED MINIMUM. ALL NAILS FOR EXPOSED WORK SHALL BE FINISHING OR CASING NAILS WITH HEADS SET. USE ALUMINUM ALLOY OR STAINLESS STEEL NAILS FOR EXTERIOR WORK.
- B. SELF-TAPPING SHEET METAL SCREWS SHALL BE USED WHEN ATTACHING WOOD TO METAL FRAMING.
- C. HARDENED STEEL NAILS SHALL BE USED WHEN ATTACHING WOOD TO CONCRETE OR MASONRY.
10. NAILS STOPPERS SHALL BE NS-16, 16 GAUGE GALVANIZED STEEL TO CONFORM TO NATIONAL ELECTRIC CODE, BY SIMPSON COMPANY OR EQUAL.

WOOD FRAMING (CONTINUED)

PERFORMANCE:

1. INSTALLATION:
- A. PROVIDE ALL TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE WOOD FRAME IN ALIGNMENT UNTIL ALL ROOF TRUSSES, WALL TRUSSES, GIRDERS, ROOF DECKS, FLOOR DECKS AND WALLS ARE IN PLACE. BRACING RECOMMENDATIONS BY THE WOOD TRUSS COUNCIL OF AMERICA. REFER TO MINIMUM BRACING GUIDELINES.
- B. INSTALL ALL FRAMING PLUMB, LEVEL AND TRUE.
- C. INSTALL FRAMING ANCHORS AS RECOMMENDED BY MANUFACTURER.
- D. TRUSSES SHALL BE INSTALLED LEVEL, PLUMB, TRUE, AND SLOPED AS INDICATED AND SPACED IN ACCORDANCE WITH THE TRUSS LAYOUT PLAN. TRUSSES SHALL BE ANCHORED WITH METAL CLIPS TO WITHSTAND UPLIFT FORCES. ALL PERMANENT BRACING ELEMENTS SHALL BE INSTALLED ACCORDING TO THE TRUSS FABRICATORS DETAILS.
- E. PROVIDE STUDS OR BLOCKING FOR ALL ACCESSORIES ATTACHED TO WALLS SUCH AS LADDER, TOILET ACCESSORIES, TOILET PARTITIONS, SHELVING, AND COUNTERS.
2. NAILING SCHEDULE FOR PLYWOOD:
- A. WALL AND ROOF SHEATHING - NAILING SHALL BE ACCORDING TO SHEATHING NAILING SCHEDULE, REFER TO STRUCTURAL DRAWINGS.
- B. PANEL END JOINTS TO OCCUR OVER FRAMING. ALLOW ¼" SPACING AT PANEL ENDS AND ⅜" AT PANEL EDGES.
- C. POWER NAILING SHALL USE THE SAME NAIL SIZE AS SPECIFIED. THE NAIL HEADS SHALL NOT BE DRIVEN BELOW THE SURFACE OF THE PLYWOOD.
3. NAILING SCHEDULE FOR FOR FRAMING:
- A. ALL FRAMING SHALL BE NAILED WITH MINIMUM CONNECTIONS MEETING THE REQUIREMENTS OF LOCAL AND/OR NATIONAL BUILDING CODES AND/OR AS INDICATED ON THE STRUCTURAL FRAMING DRAWINGS AND NOTES.
4. INSTALL NAIL STOPPER TO PROTECT WATER, GAS, AND ELECTRIC LINES THAT PENETRATE THE FRAMING MEMBERS.
5. NAILING SCHEDULE FOR FOR FRAMING:
- A. ALL FRAMING SHALL BE NAILED WITH MINIMUM CONNECTIONS MEETING THE REQUIREMENTS OF LOCAL AND/OR NATIONAL BUILDING CODES AND/OR AS INDICATED ON THE STRUCTURAL FRAMING DRAWINGS AND NOTES.
4. INSTALL NAIL STOPPER TO PROTECT WATER, GAS, AND ELECTRIC LINES THAT PENETRATE THE FRAMING MEMBERS.

PLYWOOD FLOOR DECKING

1. 5⁄8" APA-CDX PLYWOOD RATED SHEATHING 3⁄8" FOR ALL DIAPHRAGMS.
2. MINIMUM SIZE OF CONNECTION SHALL BE 10d NAILS TO WOOD.
3. MAXIMUM SPACING OF FASTENERS SHALL BE 6" O.C. AT EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS.
4. PROVIDE 2X6 BLOCKING AT PLYWOOD JOINTS FOR 6" NAIL SPACING.

IBC FASTENING SCHEDULE (115 MPH)		
CONNECTION	FASTENER	NUMBER OR SPACING
1. BAND JOIST TO SILL OR TOP PLATE, TOE NAIL	8d	6" O.C.
2. JOIST TO BAND JOIST, FACE NAIL	16d COMMON	3
3. JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	3
4. BRIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2
5. LEDGER STRIP	16d COMMON	3 @EA. JOIST
6. 1x6 OR LESS SUBFLOOR TO EA. JOIST, FACE NAIL	8d COMMON	2
7. OVER 1x6 SUBFLOOR TO EA. JOIST, FACE NAIL	8d COMMON	3
8. 2" SUBFLOOR TO JOIST/GIRDER, BLIND & FACE NAIL	16d COMMON	2
9. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" O.C.
10. TOP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2
11. STUD TO SOLE PLATE, TOE NAIL	8d COMMON	4
12. DOUBLED STUDS, FACE NAIL	10d COMMON	24" O.C.
13. DOUBLED TOP PLATES, FACE NAIL	10d COMMON	16" O.C.
14. TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	—	(2)16d/(3)10d COMMON
15. CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" O.C. ALONG EDGE
16. CEILING JOISTS TO PLATE, TOE NAIL	8d COMMON	3
17. CONTINUOUS HEADER TO STUD, TOE NAIL	8d COMMON	3
18. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	—	(3)16d/(4)10d COMMON
19. CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	—	(3)16d/(4)10d COMMON
20. RAFTER TO PLATE, TOE NAIL	8d COMMON	3
21. 1" BRACE TO EA. STUD & PLATE, FACE NAIL	8d COMMON	2
22. 1x8 OR LESS SHEATHING TO EA. BEARING, FACE NAIL	8d COMMON	2
23. OVER 1x8 SHEATHING TO EA. BEARING, FACE NAIL	8d COMMON	3
24. BUILT-UP CORNER STUDS	16d COMMON	24" O.C.
25. BUILT-UP GIRDERS/BEAMS, OF THREE MEMBERS	20d COMMON	32" O.C. @TOP & BOT. & STAGGERED 2 ENDS & @EA. SPLICE
26. 2" PLANKS	16d COMMON	2 EA. BEARING
27. STUDS TO SOLE PLATE, END NAIL	16d COMMON	2 EA. END

REINFORCING STEEL

1. REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 (MANUEL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES) AND CRSI MSP-1 (MANUEL OF STANDARD PRACTICE), LATEST EDITION.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
3. LONGITUDINAL REINFORCING BARS IN FOOTINGS SHALL BE PLACED CONTINUOUS AT CORNERS AND INTERSECTIONS.
4. FOR EVERY VERTICAL OR HORIZONTAL BAR DISCONTINUED BY AN OPENING, ONE BAR (MINIMUM OF 2 BARS) SHALL BE ADDED AT SIDE OF OPENING (HALF EACH SIDE - TYPICAL)
5. PROVIDE DOWELS FROM FOUNDATION, THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OF COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
- SLAB-ON-GRADE
1. CONCRETE SLAB CONTROL JOINTS SHALL BE CUT INTO THE SLABS WITHIN 12 HOURS OF PLACING THE CONCRETE. MAXIMUM SPACING OF INTERIOR SLAB CONTROL JOINTS SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
2. SLAB CONSTRUCTION JOINTS SHALL BE USED IN PLACE OF CONTROL JOINTS WHERE NEEDED TO INTERRUPT A CONTINUOUS POUR.
3. PLACEMENT OF WELDED WIRE REINFORCEMENT IN SLAB, WHERE SPECIFIED, SHALL BE AT A CONSISTENT DEPTH OF 1½" FROM TOP OF SLAB. WELDED WIRE REINFORCEMENT SHALL BE PROPERLY CHAIRED ABOVE GRADE. OVERLAP EACH REINFORCING SHEET TWO FULL PANELS AND TIE CROSS WIRES ON EACH SIDE.
4. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS FOR SLAB FINISHES, SLAB DEPRESSIONS, THICKENED SLABS (IN ADDITION TO THICKENED SLABS NOTED ON STRUCTURAL DRAWINGS), ELEVATIONS, AND ENCASED OR EMBEDDED ITEMS.
5. PLUMBING AND ELECTRICAL CONDUITS SHALL BE PLACED BELOW THE SLAB AND NOT WITHIN THE SLAB. VERTICAL PENETRATIONS ARE ALLOWED.
6. COLUMN BOX-OUTS SHALL BE USED TO ISOLATE AN ADEQUATE AREA AROUND COLUMN BASE PLATES TO PROVIDE FOR COLUMN PLACEMENT AND LEVELING. BOX-OUTS ARE TO BE CLEAN AND FREE OF DEBRIS TO TOP OF FOOTING PRIOR TO FILLING WITH CONCRETE.
7. SLAB-ON-GRADE SHALL BE UNDERLAIN BY POROUS MATERIAL. PRIOR TO PLACING THE POROUS MATERIAL THE SUBGRADE SHALL BE PROPERLY COMPACTED, PROOF-ROLLED, FREE OF STANDING WATER, MUD AND FROZEN SOIL. BEFORE PLACEMENT OF THE CONCRETE, POLYURETHANE VAPOR BARRIER SHALL BE PLACED ON TOP OF THE POROUS MATERIAL. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL WITH 100% PASSING A 1½" SIEVE AND NO MORE THAN 5% PASSING A NO. 4 SIEVE. POROUS FILL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-689.
8. THE CONTRACTOR IS CAUTIONED AGAINST LOADING THE SLAB-ON-GRADE WITH CRANE LOADS. THEE SLAB HAS NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN SLAB THICKNESS AND/OR REINFORCEMENT.
9. UNLESS NOTED OTHERWISE, THE SLAB-ON-GRADE SHALL BE PLACED ON GRANULAR FILL ON COMPACTED SUBGRADE.

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DRW:		DAW	
CHK:		DAW	
REVISIONS	DATE	NUMBER	COMMENTS

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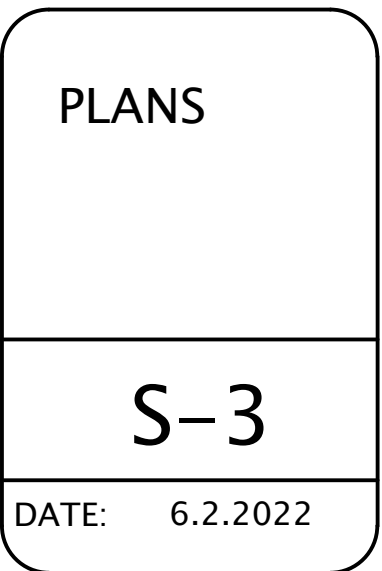
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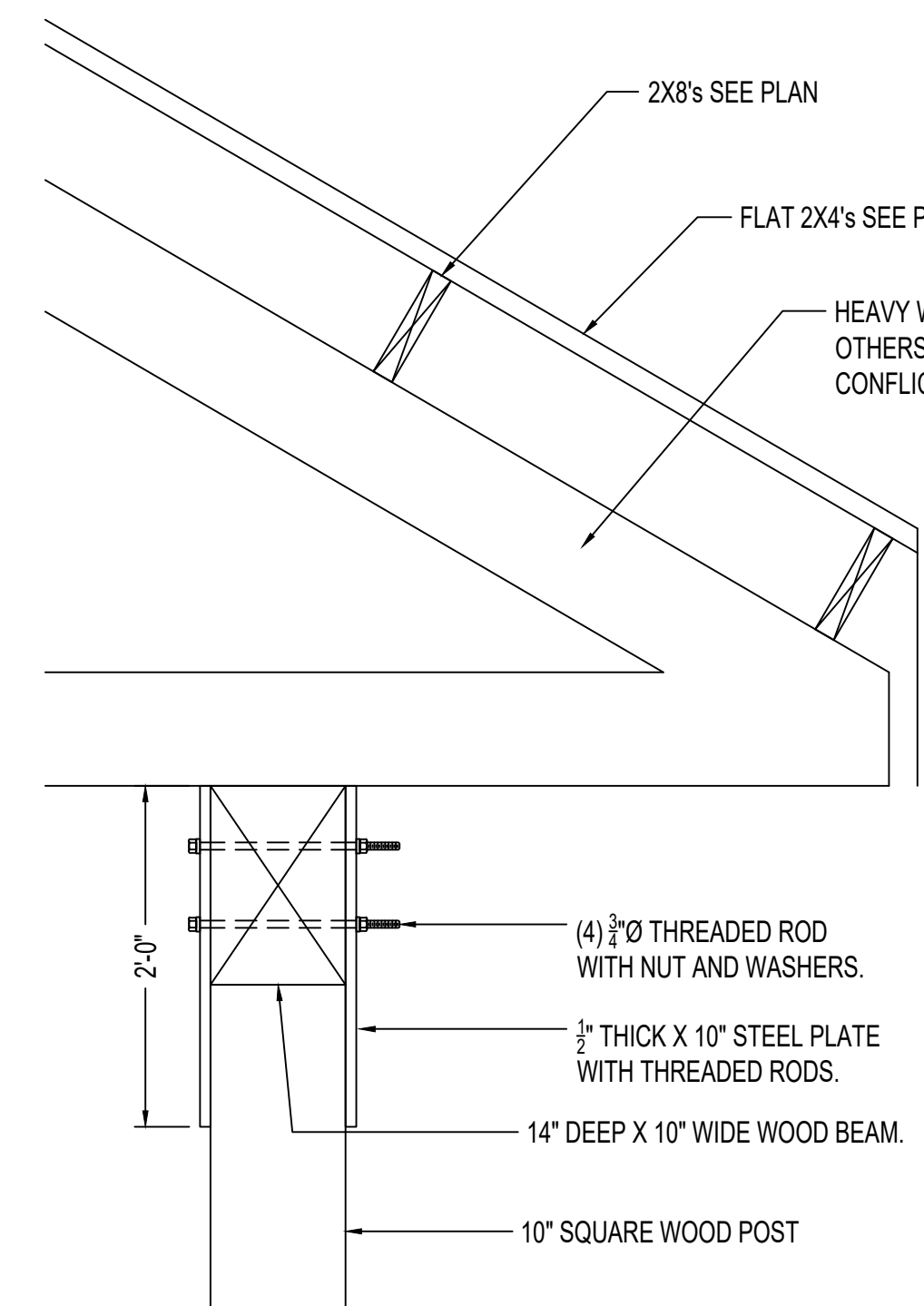
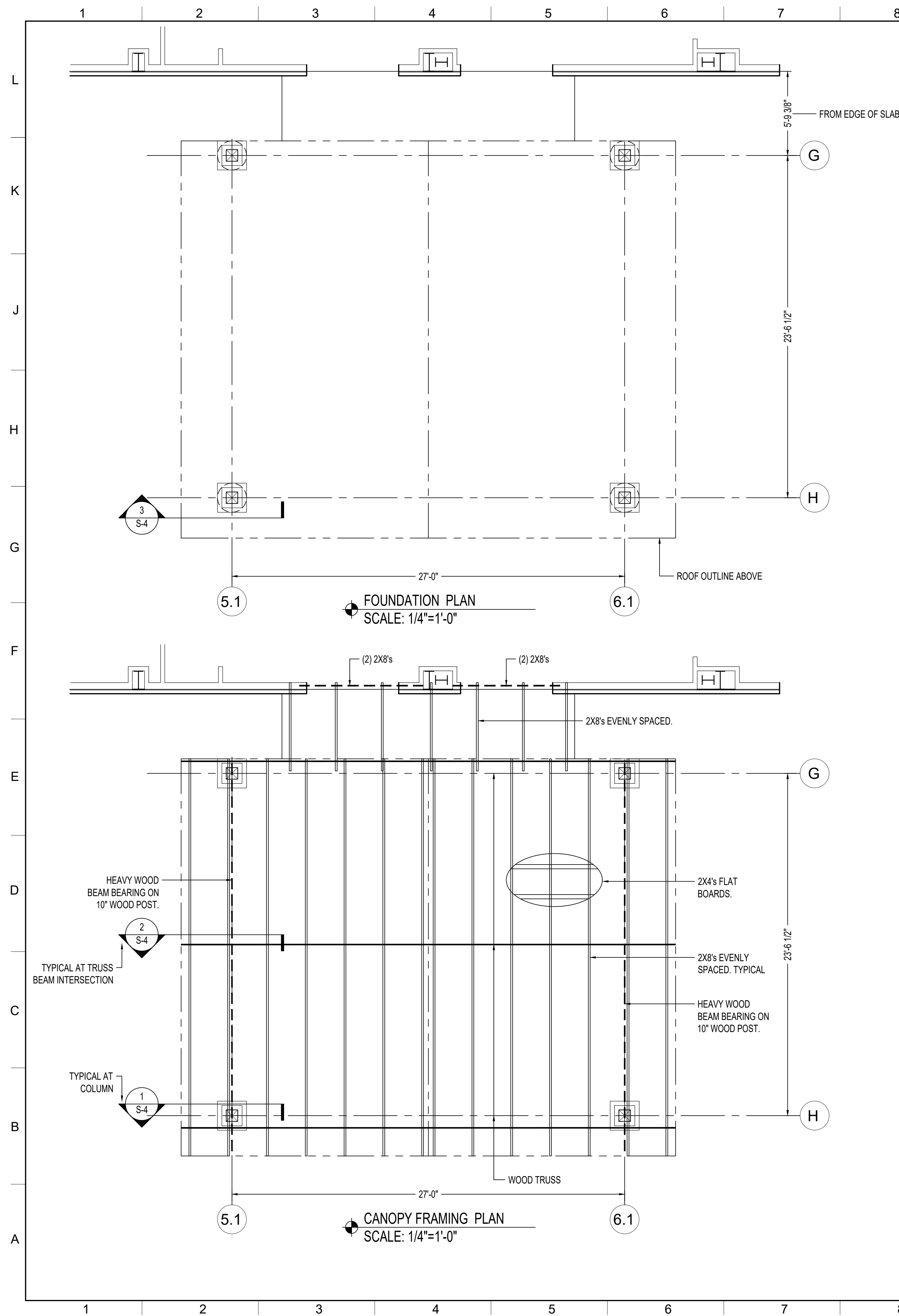
GENERAL NOTES

S-2

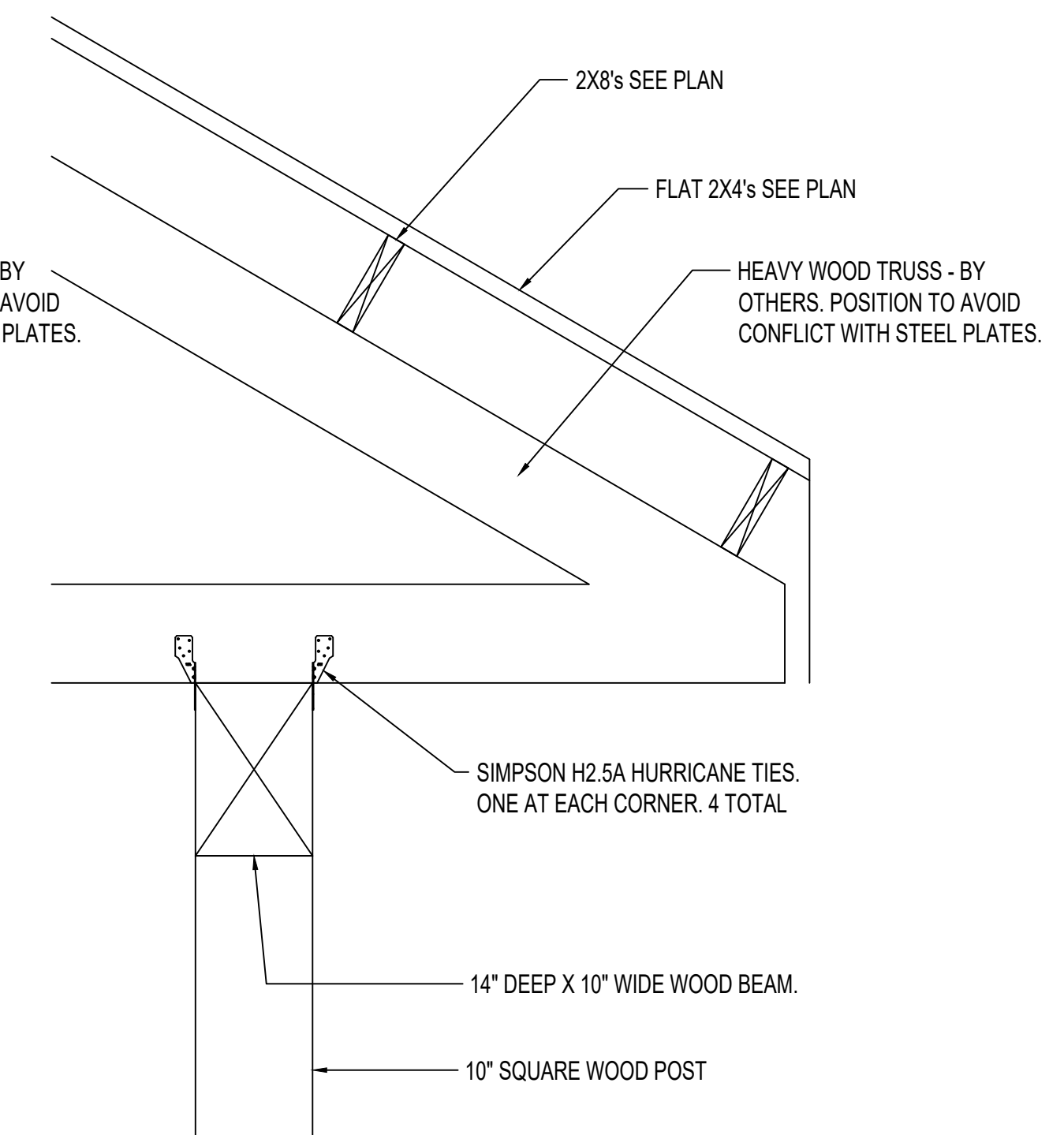
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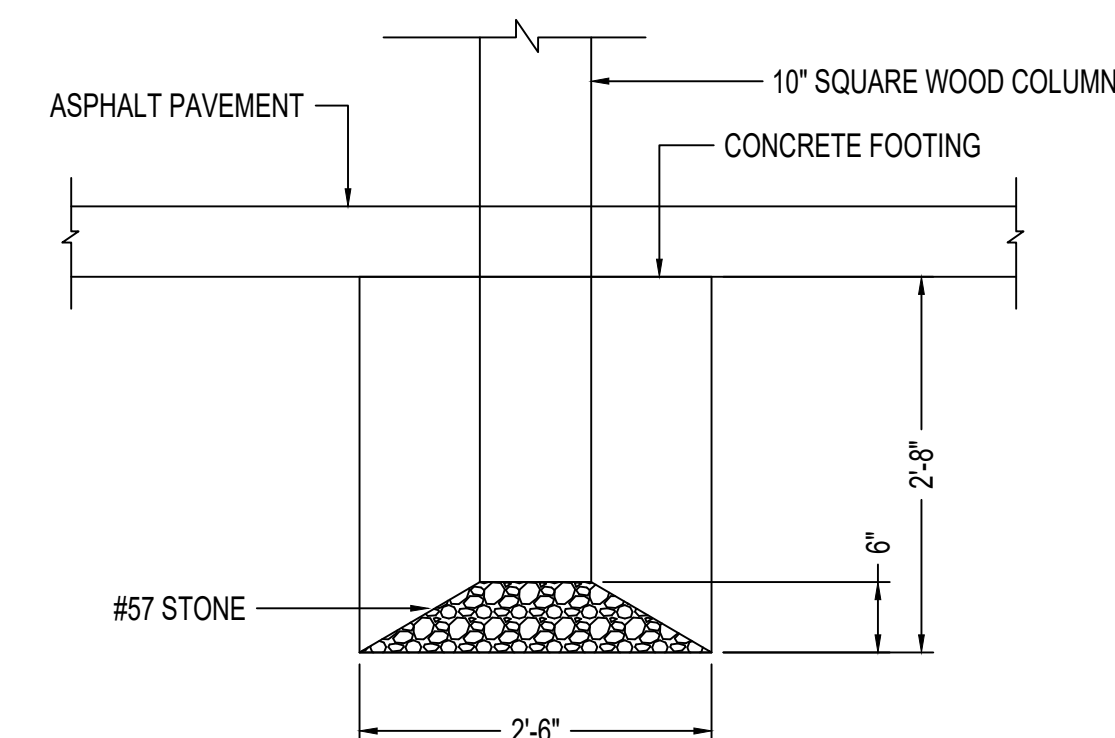




SECTION 1  
SCALE: 1" = 1'-0" S-4



SECTION 2  
SCALE: 1" = 1'-0" S-4



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

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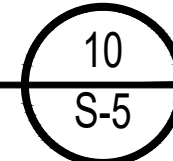
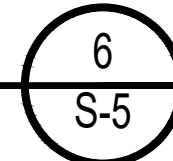
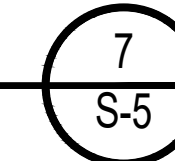
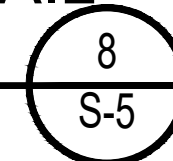
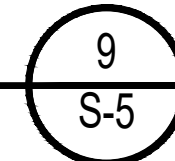
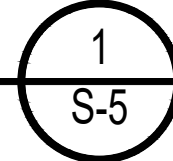
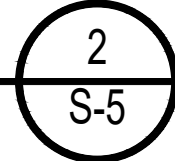
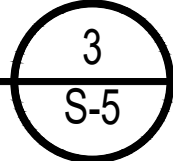
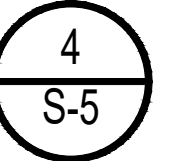
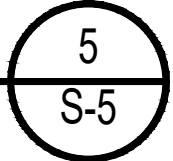
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## CANOPY PLANS AND SECTIONS

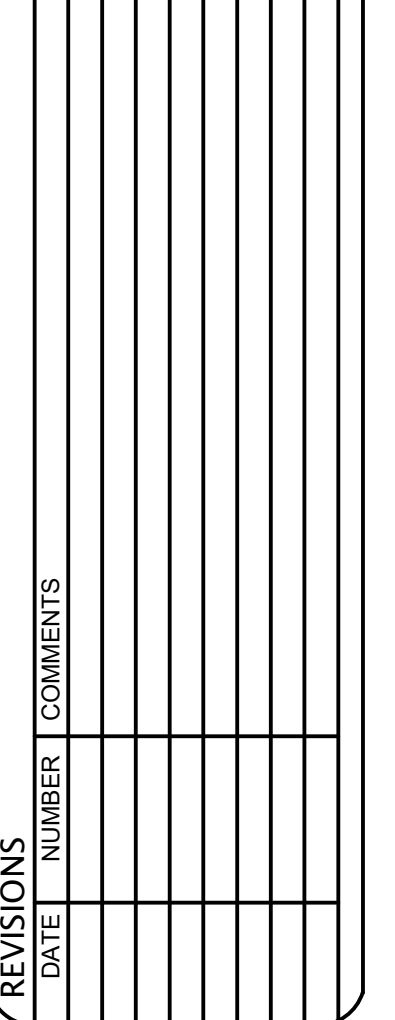
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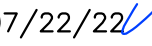
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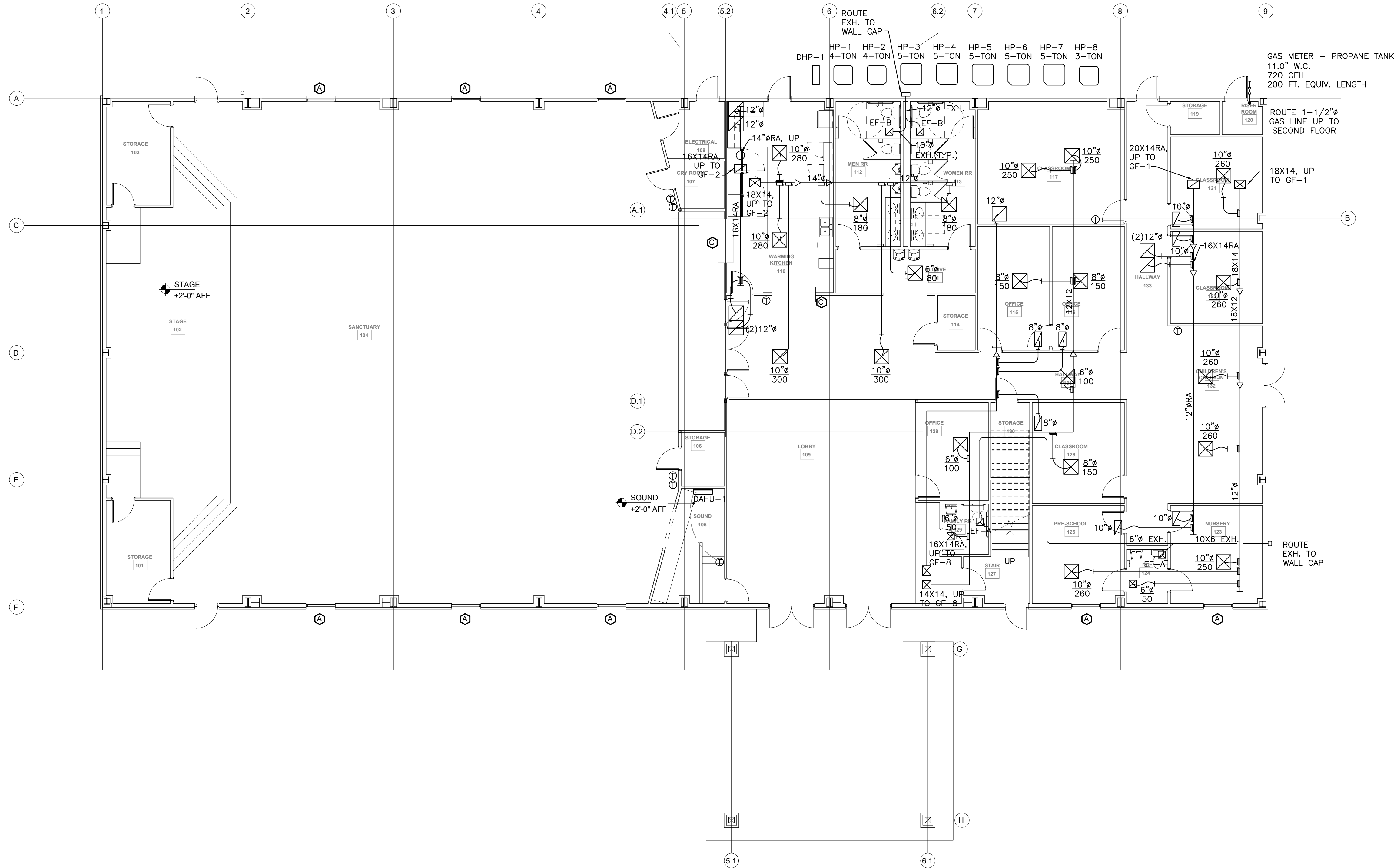
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MECHANICAL  
FIRST FLOOR  
PLAN

M-1.0

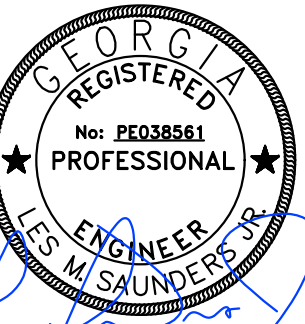
DATE: 07/22/2022



1 MECHANICAL FIRST FLOOR PLAN  
M-1.0 SCALE:  $\frac{1}{8}" = 1'0"$







7/22/22 ✓

OBJ:	22-034
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CHK: TT/LS/KS

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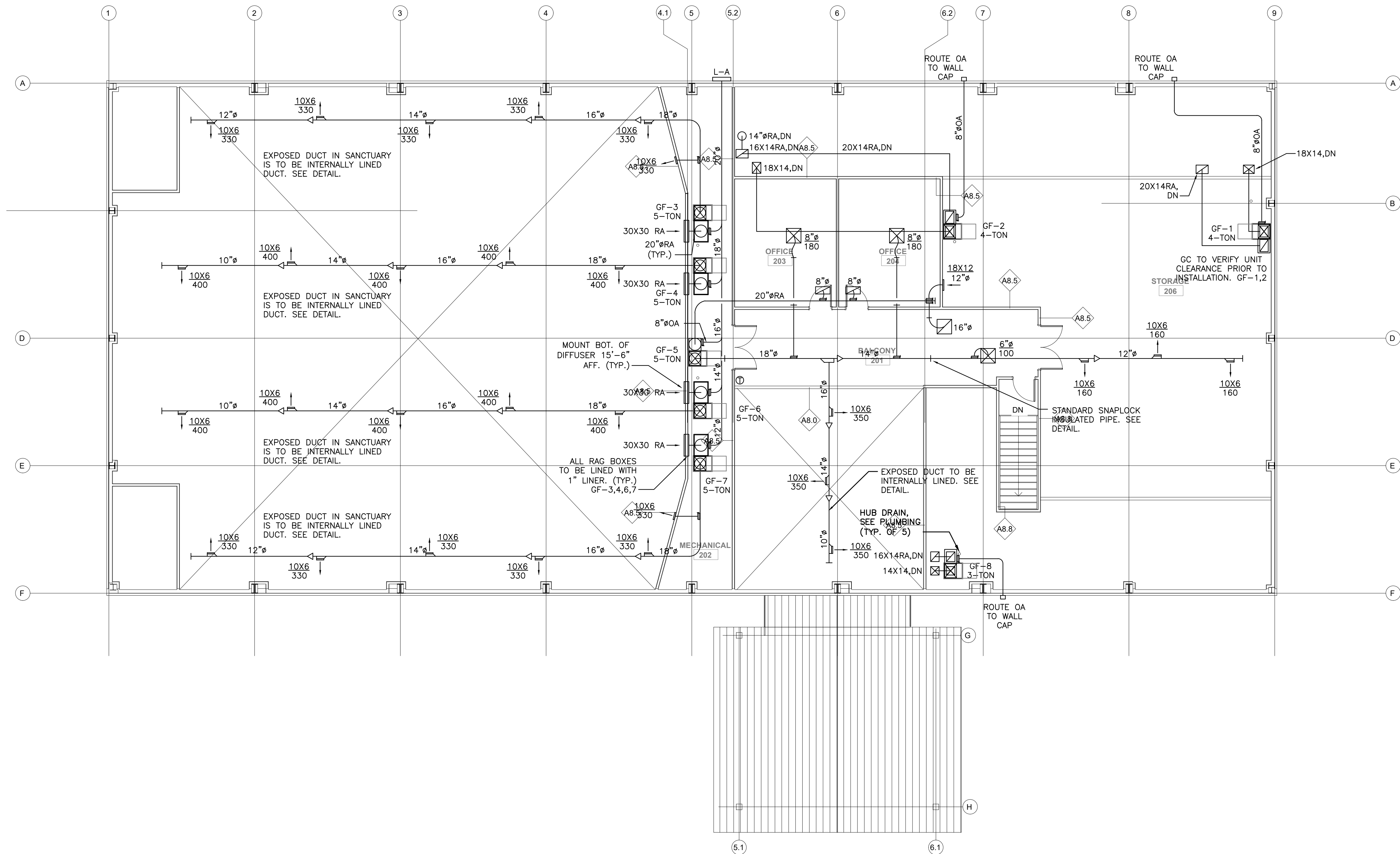
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# MECHANICAL ECOND FLOOR PLAN

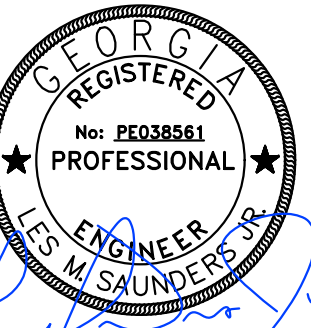
## M-1.1

DATE: 07/22/2022



1 MECHANICAL SECOND FLOOR PLAN  
M-1.1 SCALE:  $\frac{1}{8}" = 1'0"$





7/22/22 ✓

OB:	22-034
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RW: TT/LS/KS

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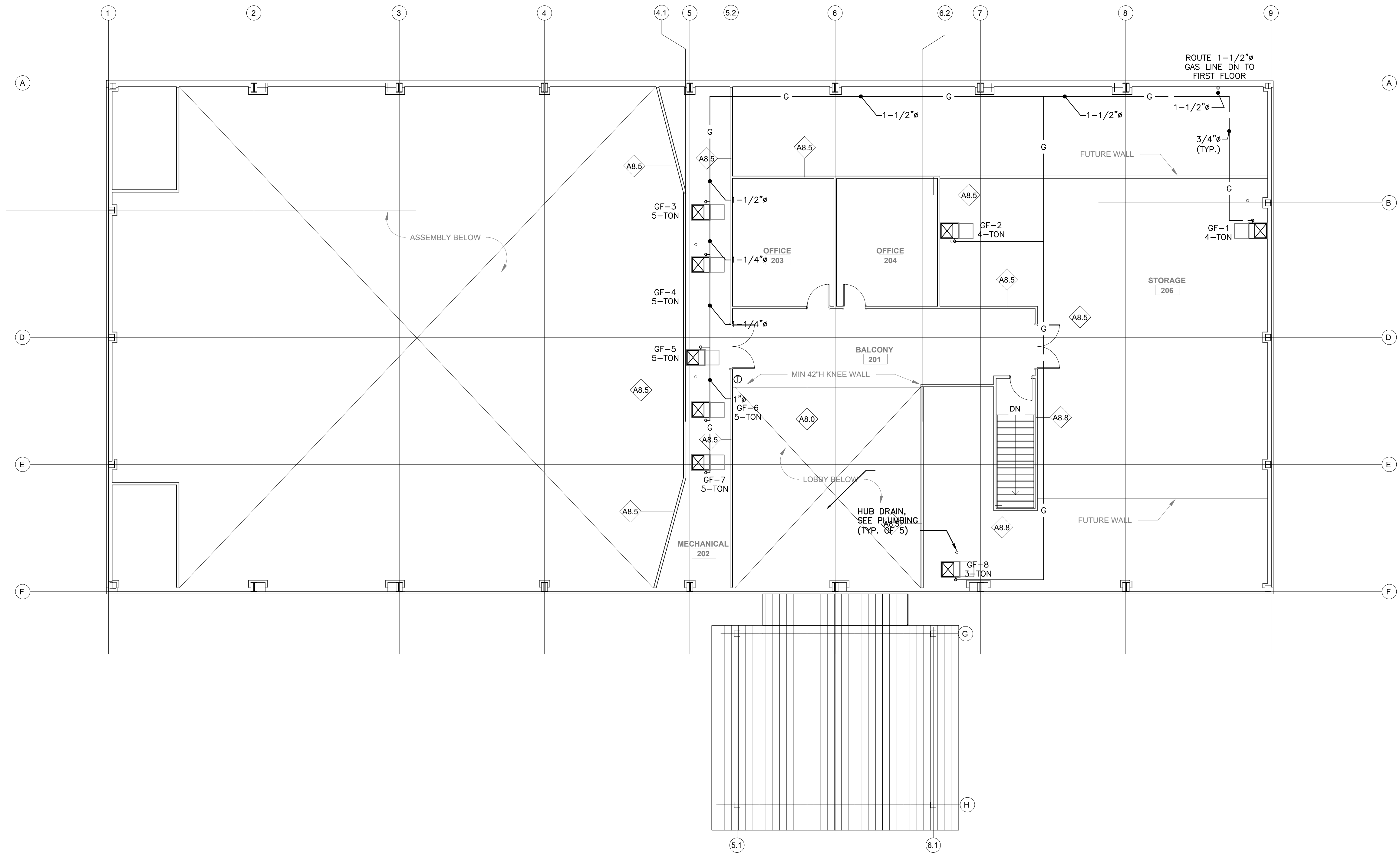
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# MECHANICAL SECOND FLOOR GAS PLAN

M-1.2

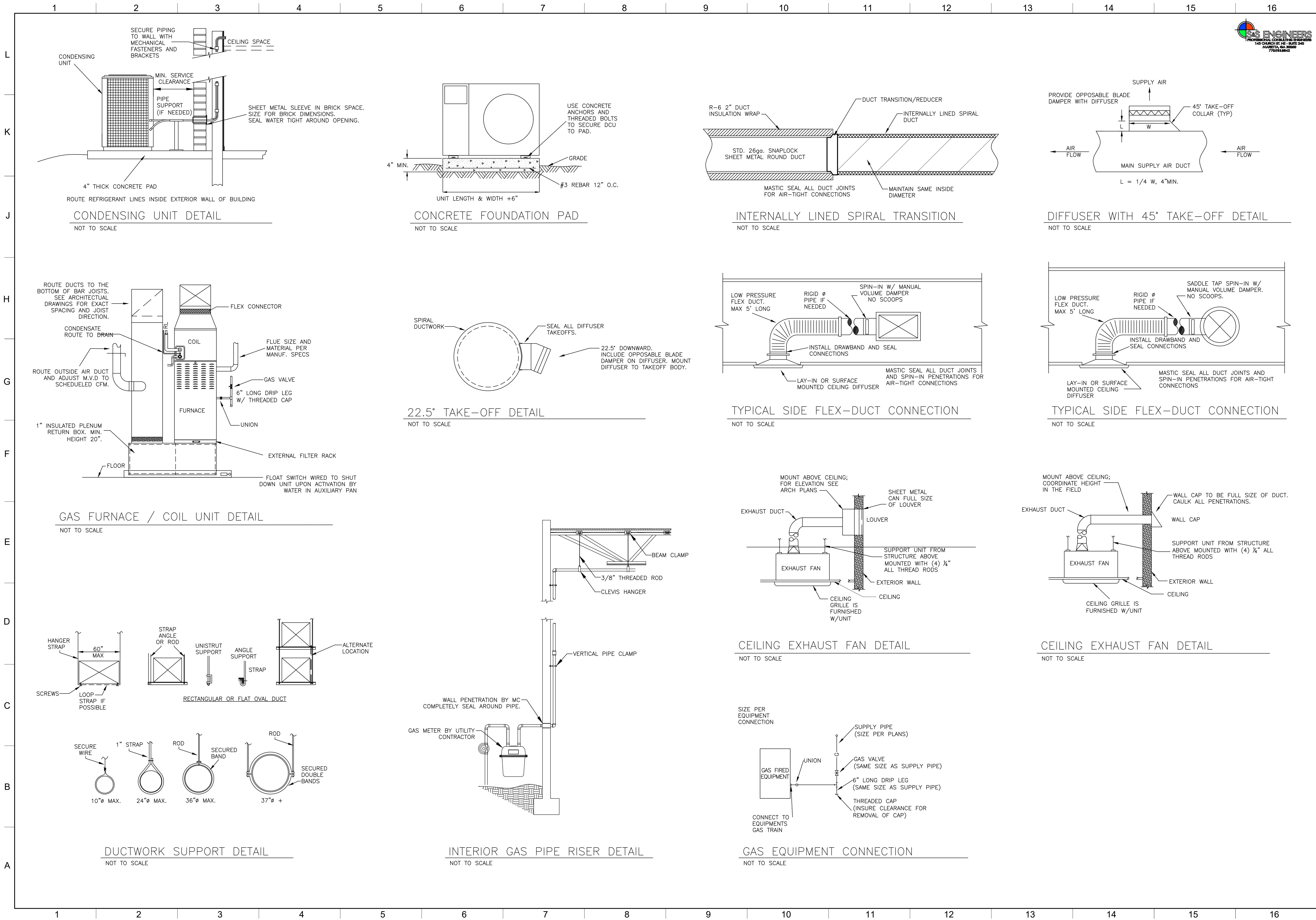
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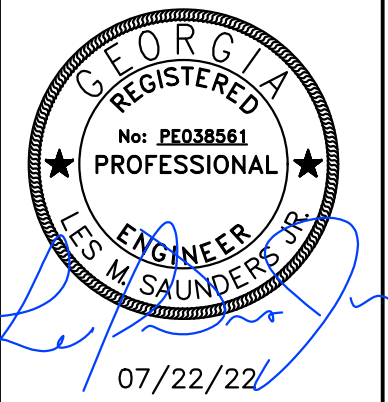
MECHANICAL SECOND FLOOR GAS PLAN  
SCALE: 1/8"=1'-0"







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**MECHANICAL DETAILS**

**M-2.0**

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REGISTERED  
PROFESSIONAL  
ENGINEER  
LES M. SAUNDERS  
No. 2103881  
07/22/22

JOB: 22-034  
DRW: TT/LS/KS  
CHK: TT/LS/KS

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DATE NUMBER COMMENTS PERMIT SET

07/22/22																
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MECHANICAL  
SCHEDULES &  
NOTES

M-3.0

DATE: 07/22/2022



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MECHANICAL PIPING NOTES

GENERAL PIPING NOTES:

- ALL PIPING SHOULD BE SUPPORTED FROM STRUCTURAL MEMBERS. DO NOT REST PIPING ON CEILING TILES OR SUSPENDED GRID. PIPING HUNG FROM ROOF JOISTS SHALL BE SECURED AT THE TOP CHORD OF THE JOIST. PIPING SHOULD BE SUPPORTED IN INTERVALS AS LISTED IN THE MECHANICAL CODE TABLES AND AT EVERY CHANGE IN DIRECTION. PIPING SHALL BE NEAT AND STRAIGHT.
- ALL PIPING SHALL BE CONNECTED TO EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- DIELECTRIC UNIONS SHOULD BE USED TO CONNECT ALL DISSIMILAR METALS.
- ALL STEEL PIPING EXPOSED TO THE OUTDOORS SHALL BE PAINTED WITH NO LESS THAN 2 COATS OF RUST-O-LEUM TYPE PAINT.
- ALL VALVES TO BE 1/4 TURN BALL VALVES UNLESS OTHERWISE NOTED.
- ALL SCH. 40 BLACK STEEL PIPING 2.5" NOMINAL SIZE AND SMALLER MAY BE THREADED. PIPING 3" AND LARGER MUST BE FLANGED OR WELDED.
- REFRIGERANT PIPING FOR HVAC SYSTEMS
  - SHALL BE ACR COPPER TUBING WITH BRAZED JOINTS AND FITTINGS. SUCTION PIPING SHALL BE INSULATED WITH ¾" CLOSED CELL INSULATION OR PER ENERGY CODE, WHICHEVER IS GREATER. ALL OUTDOOR PIPING AND INSULATION SHALL BE COATED WITH NO LESS THAN 2 LAYERS OF WHITE ELASTOMERIC COATING EQUAL TO HENRY - 287 SF SOLAR FLEX. COPPER PIPING SHOULD NOT BE IN DIRECT CONTACT WITH METAL ITEMS AS TO PREVENT WEAR FROM PIPE VIBRATION.
- CONDENSATE PIPING
  - ON THE ROOF OR OPEN AREAS MAY BE SCH. 40 PVC. CONDENSATE PIPING, IN A SHAFT, CHASE, CONCEALED AREA OR RETURN AIR PLENUM SPACE MUST BE CPVC OR COPPER TYPE M WITH INSULATION AND JACKET THAT MEETS REQUIREMENTS FOR INSULATION WITHIN A RETURN AIR PLENUM. PIPING SHALL BE TRAPPED PER MANUFACTURER'S REQUIREMENTS DEPENDING ON STATIC PRESSURE OF THE SYSTEM AND ROUTED TO THE NEAREST DRAIN. CONDENSATE PIPING MUST INSULATED IF THE CONDENSATE TEMPERATURE IS MORE THAN 15°F BELOW THE AMBIENT AIR TEMPERATURE OR LESS THAN 55°F.
- GAS PIPING
  - TO BE SCH. 40, BLACK CARBON STEEL. SEE GAS PIPING NOTES.
- IDENTIFICATION:
  - PROVIDE PLASTIC AND PERMANENT NAMEPLATES WITH THE UNIT NUMBER ON ALL MECHANICAL EQUIPMENT. PROVIDE PIPE IDENTIFICATION LABELS INCLUDING DIRECTION OF FLOW ARROWS AND WITH SERVICE INDICATED. ALL LABELS SHALL HAVE BACKGROUND COLORS MATCHED WITH SPECIFIC SERVICE DESIGNATION. LABELS SHOULD BE PROVIDED BOTH INSIDE AND OUTSIDE OF BUILDING TO SHOW APPROPRIATE SERVICE TYPE AND FLOW DIRECTION.
- PIPE TESTING:
  - REFRIGERATION/GAS COPPER PIPE: 450 PSIG NITROGEN TEST. HOLD NITROGEN TESTS FOR A MINIMUM OF ONE HOUR WITHOUT LOSS OF PRESSURE.
- RETESTING: RETEST PIPING FAILING INITIAL TESTS FOLLOWING CORRECTION OF DEFECTIVE WORK. REQUIREMENTS OF INITIAL TESTS SHALL APPLY.

GAS PIPING NOTES:

- GAS PIPING SYSTEM IS DESIGNED FOR 11.0" W.C. GAS PIPING HAS BEEN SIZED PER 2018 IFGC 402.4
- GAS PIPING AND FITTING – BLACK CARBON STEEL, BUTT WELDED OR STANDARD WEIGHT MALLEABLE IRON SCREWED (SEE NOTE 3), SCHEDULE 40 PIPE MEETING REQUIREMENTS OF ASTM A 234.
- GAS PIPING SYSTEM SHALL BE TESTED AS FOLLOWS: TESTS SHOULD INCLUDE COMPRESSED AIR, CARBON DIOXIDE OR NITROGEN GAS. PRESSURE TESTS SHALL BE CONDUCTED ON THE DOWNSTREAM SIDE OF THE METER AFTER THE PIPING IS FULLY INSTALLED WITH TEST PORTS. THE PIPING SHALL BE PRESSURIZED TO A MINIMUM PRESSURE OF 20 PSIG AND HELD FOR A PERIOD OF NOT LESS THAN ONE(1) HOUR WITH THE COMPRESSOR DISCONNECTED. TEST EACH JOINT WITH A SOAPY WATER SOLUTION FOR LEAKS DURING PRESSURE TEST. IF ANY JOINT FAILS THE LEAK TEST THE JOINT SHALL BE CORRECTED, AND COMPLETE NEW TEST SHOULD BE MADE.
- PROVIDE DRIP LEGS WITH SCREW FIT BOTTOMS AT A MINIMUM 3" ABOVE FINISHED GRADE OR ROOF.
- PROVIDE CUT-OFF VALVES IN GAS PIPING AT EACH GAS CONSUMING APPLIANCE OR EQUIPMENT AND AT EACH PRESSURE REGULATOR VALVE. ON LINES SERVING GAS FIRED EQUIPMENT, INSTALL GAS COCKS ADJACENT TO EQUIPMENT CABINET AND EASILY ACCESSIBLE.
- INSTALL 6" LONG MINIMUM DIRT LEG, WITH PIPE CAP, ON VERTICAL GAS DROP SERVING EACH GAS-FIRED EQUIPMENT UNIT. USE FITTING FOR ANY CHANGES OF DIRECTION IN PIPE AND FOR BRANCH RUNOUTS.
- UNIONS ARE NOT PERMITTED IN HIGH PRESSURE GAS PIPING EXCEPT AT THE FOLLOWING LOCATIONS: DOWNSTREAM OF APPLIANCE SHUT-OFF VALVES, METER LOCATIONS AND IMMEDIATELY DOWNSTREAM OF THE BUILDING SHUT-OFF VALVE.
- LABEL ALL GAS PIPE AT NO MORE THAN 50' INTERVALS WITH BLACK AND YELLOW LABELS STATING "NATURAL GAS" ALONG WITH THE PRESSURE. EXAMPLE: "NATURAL GAS 5 PSIG"
- ALL GAS PIPE OUTSIDE SHALL BE PAINTED WITH NO LESS THAN 2-COATS OF RUST-O-LEUM TYPE PAINT; COLOR AS APPROVED BY OWNER.

HVAC SPECIFICATIONS AND NOTES

CONSTRUCTION NOTES:

- THE CONTRACTOR SHALL PROVIDE A COMPLETE HVAC SYSTEM AS SHOWN SCHEMATICALLY TO INCLUDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY COMPONENTS CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES, LAWS AND ORDINANCES. PROVIDE ACCESS TO OWNER'S AUTHORIZED PERSONS AND THE POLICE, FIRE OR OTHER DEPARTMENTS HAVING LEGAL JURISDICTION TO THE SITE AT ALL TIMES AND PROVIDE COOPERATION IN THEIR WORK.
- THE CONTRACTOR SHALL VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL DRAWINGS BEFORE PURCHASING EQUIPMENT. PRESENT ANY CONFLICTS TO THE GENERAL CONTRACTOR AND ENGINEER BEFORE PURCHASING EQUIPMENT.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.
- ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS AND EQUIPMENT STORED.
- THE CONTRACTOR SHALL ACCEPT THE PROJECT SITE IN "AS IS" CONDITION. CONTRACTOR SHALL INCLUDE COSTS OF ALL REQUIRED MODIFICATIONS IN ACCORDANCE WITH APPLICABLE PLANS AND SPECIFICATION SECTIONS.
- THE DIMENSIONS AND COUNTS PROVIDED ON THE DRAWINGS AND IN THE SPECIFICATIONS ARE FIELD MEASURED AND/OR TAKEN FROM EXISTING DRAWINGS AND MAY NOT BE EXACTLY AS SHOWN OR INDICATED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE, TAKE NECESSARY MEASUREMENTS AND COUNTS PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL DETAILS OF THE WORK AND THE EXISTING CONDITIONS AND SHALL VERIFY DIMENSIONS, CLEARANCES AND EXISTING CONDITIONS AND BE ASSURED THAT THE EQUIPMENT PURCHASED WILL FIT INTO THE AVAILABLE SPACE.
- DISPOSE OF ALL WASTE MATERIALS IMMEDIATELY AND KEEP PREMISES CLEAN AT ALL TIMES.
- ALL MATERIALS SHALL BE NEW, CLEAN, AND WITHOUT DEFECTS. ANY DEFECTIVE MATERIALS SHALL BE REMOVED FROM JOB SITE.
- DO NOT LOAD STRUCTURES WITH WEIGHT THAT WILL ENDANGER STRUCTURE.
- DO NOT UNREASONABLY ENCUMBER SURROUNDING PREMISES WITH MATERIALS OR EQUIPMENT.
- CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW ORDINANCES, PERMITS, CONTRACT DOCUMENTS AND THE OWNER.
- THE CONTRACT OPERATIONS SHOULD NOT CAUSE ANY HINDRANCE, NUISANCE, LACK OF SAFETY, BLOCKED MEANS OF ENTRANCE AND EXIT, DAMAGE TO PROPERTY AND PERSON, DISRUPTION OF UTILITIES, EXCESSIVE AND OFFENSIVE NOISE AND DUST TO ANY OF THE ADJOINING PROPERTIES AND PERSONS. REMOVE SUCH CONDITION FORTHWITH, SHOULD THEY OCCUR AND REPAIR OR REPLACE THE DAMAGE AT OWN COST TO THE APPROVAL OF THE ENGINEER.

DUCTWORK

- ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR (UNLESS OTHERWISE NOTED).
- THE CONTRACTOR SHALL REVIEW STRUCTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS. FIELD FABRICATE DUCTWORK TO JOB CONDITIONS.
- ALL DUCTWORK SHALL BE FABRICATED OF GALVANIZED STEEL OF THICKNESS AND GAUGES TO CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS. OTHER DUCT MATERIAL TYPES WILL BE NOTED ON THE PLANS.
- ALL LOW PRESSURE FLEXIBLE DUCT SHALL BE CONNECTED TO LOW PRESSURE DUCT WITH SPIN-IN FITTINGS AND MANUAL DAMPERS.
- LOW PRESSURE FLEX DUCT SHALL BE A MAXIMUM OF 5 FEET LONG AND SHALL BE SIZED AS FOLLOWS:

CFM	FLEXDUCT DIAMETER
0 – 100	6"
101 – 200	8"
201 – 300	10"
301 – 500	12"
- INDOOR CONCEALED DUCT:
  - SUPPLY & RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK R-6 FIBERGLASS DUCT INSULATION WITH ALUMINUM FOIL BACKING.
- INDOOR EXPOSED DUCT:
  - LOW PRESSURE SUPPLY DUCTWORK SHALL BE SPIRAL ROUND OR RECTANGULAR AS INDICATED WITH 1" R-6 THICK INTERIOR LINER.
- EXHAUST DUCT
  - EXHAUST DUCT THROUGH A CONDITIONED SPACE DOES NOT NEED TO BE INSULATED.
- OUTDOOR AIR DUCT
  - OUTDOOR AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH 2" THICK R-6 FIBERGLASS DUCT INSULATION WITH ALUMINUM FOIL BACKING.
- ALL 90° ELBOWS SHALL BE PROVIDED WITH SINGLE WALL TURNING VANES.
- ALL JOINTS AND SEAMS IN ALL SHEETMETAL DUCT WORK SHALL BE SEALED WITH DUCT SEALER, UL LISTED 181A OR 181B FOR TAPES AND MASTICS. DO NOT USE DUCT TAPE.
- PROVIDE AIR EXTRACTORS AS REQUIRED FOR AIR BALANCING.
- SPIN-IN FITTINGS OR STICK ON FITTINGS WITH DAMPERS SHALL BE APPLIED TO ALL SUPPLY DUCTWORK. NO SCOOPS ARE ALLOWED IN FITTINGS.

GENERAL HVAC NOTES:

- CONTROLS
  - INSTALL ALL ROOM THERMOSTATS 48" AFF.
  - UNLESS NOTED OTHERWISE; STARTERS, DUCT, NON-ADDRESSABLE SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROLLED WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTORS.
  - ADDRESSABLE SMOKE DETECTORS SHOULD BE PROVIDED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.
  - ALL REQUIRED HVAC CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF MECHANICAL WORK.
- AIR BALANCE
  - BALANCE ALL AIR SYSTEMS TO PRODUCE THE VOLUMES AND QUANTITIES SHOWN ON DRAWINGS OR SPECIFIED USING NEBB OR AABC CERTIFIED TEST AND BALANCE CONTRACTOR.
- FILTERS
  - MECHANICAL CONTRACTOR TO PROVIDE (1) SET OF CLEAN NEW FILTERS FOR ALL HVAC SYSTEMS AT TIME OF OWNER TRAINING OR CO.
- FIRE STOPPING
  - ALL PIPE AND DUCT PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE FIRE-STOPPED AS REQUIRED TO RESTORE ASSEMBLY TO THE ORIGINAL INTEGRITY. FIRE BARRIER PRODUCTS SHALL BE MANUFACTURED BY 3M CO.CP 25 CAULK, CS195 COMPOSITE PANEL, FS 195 WRAP/STRIP, OR PSS 7900 SERIES SYSTEM AS RECOMMENDED BY MFG. FOR PARTICULAR APPLICATION, OR EQUIVALENT SYSTEM AS APPROVED BY LOCAL CODE OFFICIALS.
  - INSTALL FIRE DAMPERS IN ALL DUCTS PASSING THROUGH FIRE RATED WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FIRE WALLS.
- PROVIDE PLASTIC AND PERMANENT NAMEPLATES WITH THE UNIT/TAG NUMBER ON ALL MECHANICAL EQUIPMENT. TAG SHOULD BE IN CONTRAST TO THE BACKGROUND AND SHOULD BE MECHANICALLY FASTENED TO THE EQUIPMENT, NOT VIA ADHESIVE ONLY.
- MAINTAIN A MINIMUM OF 10' CLEARANCE BETWEEN ANY OUTDOOR AIR INTAKES AND EXHAUST OUTLETS.
- GAS PIPING TO BE SCH. 40, BLACK CARBON STEEL. SEE GAS PIPING NOTES.



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REGISTERED  
PROFESSIONAL  
ENGINEER  
LES M SAUNDERS  
No. 25038681  
07/22/22

JOB: 22-034

DRW: TT/LS/KS

CHK: TT/LS/KS

REVISIONS	DATE	NUMBER	COMMENTS
	07/22/22		PERMIT SET

FELLOWSHIP OF THE HILLS

991 PAT HARALSON DRIVE  
BLAIRSVILLE, GA 30512

MECHANICAL  
NOTES

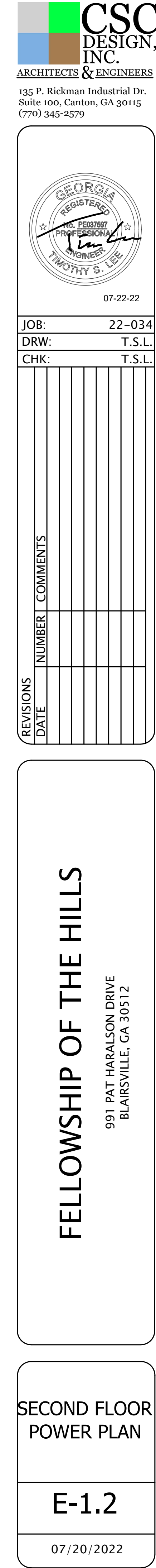
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DATE: 07/22/2022











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Ph. 678-439-8664  
tim.lee@tlengeer.com

JOB #21461



DRW.	T.S.L.
CLK:	T.S.L.

## REVISIONS

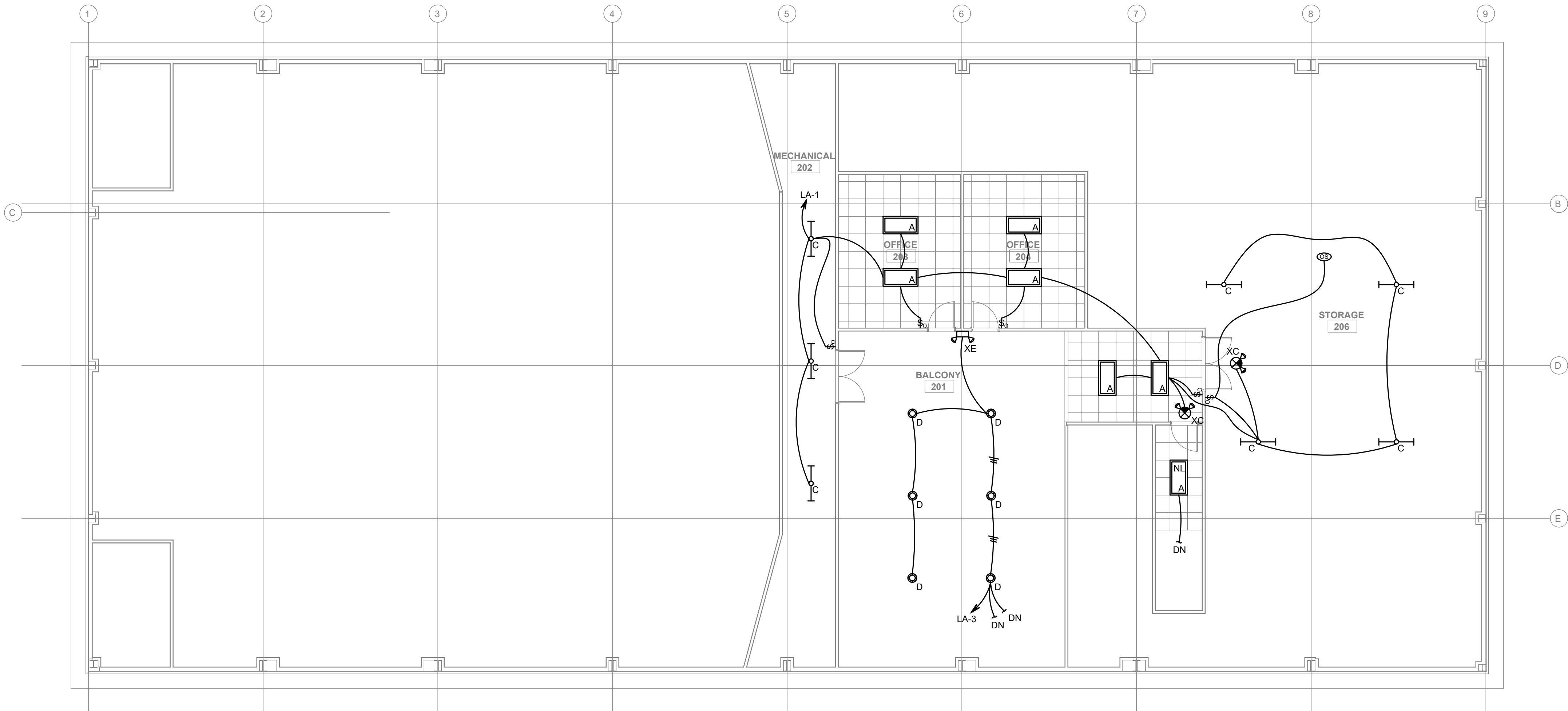
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BLAIRSVILLE, GA 30512

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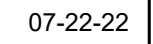
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**1 FIRST FLOOR LIGHTING PLAN**  
E-2.1 SCALE: 1/8" = 1'-0"





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DRW:	T.S.L.
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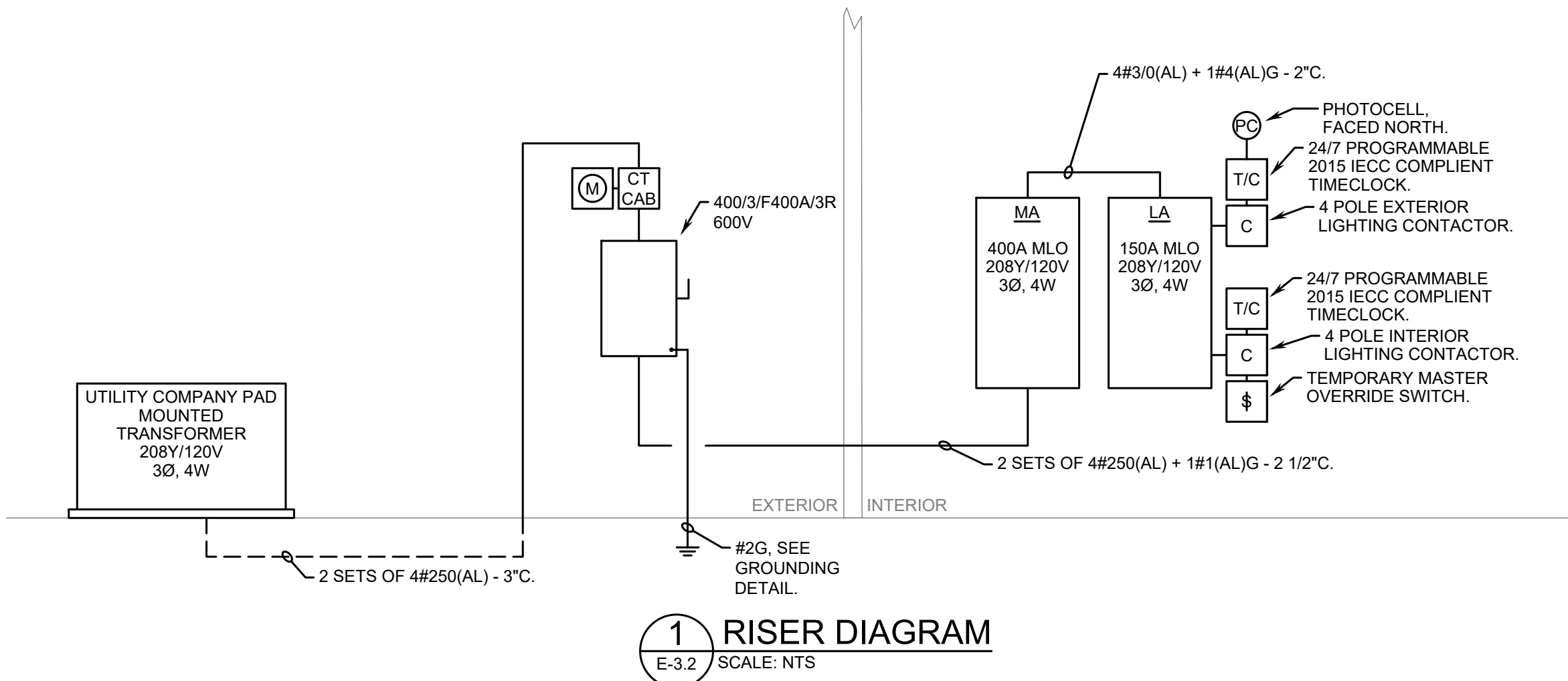
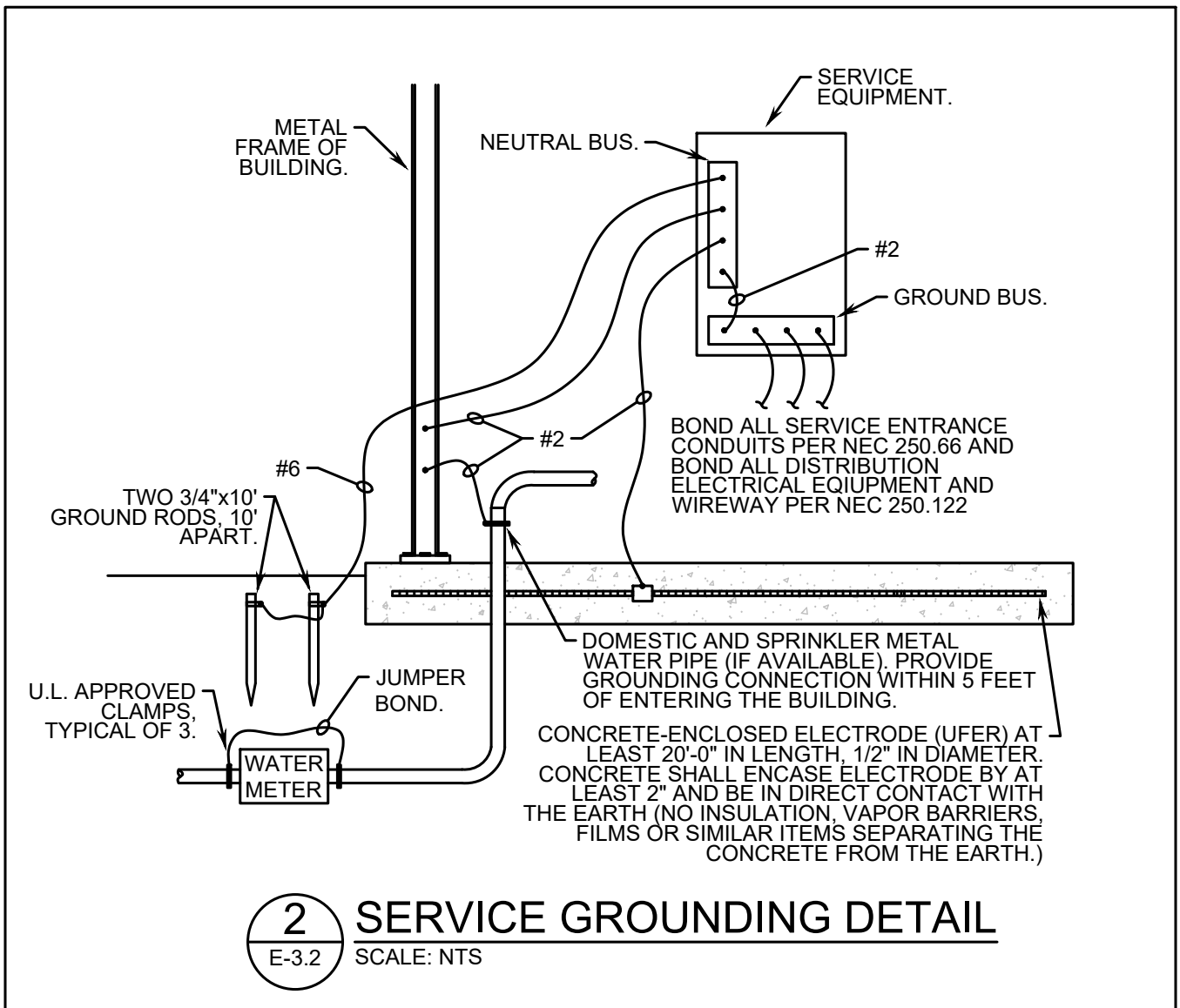
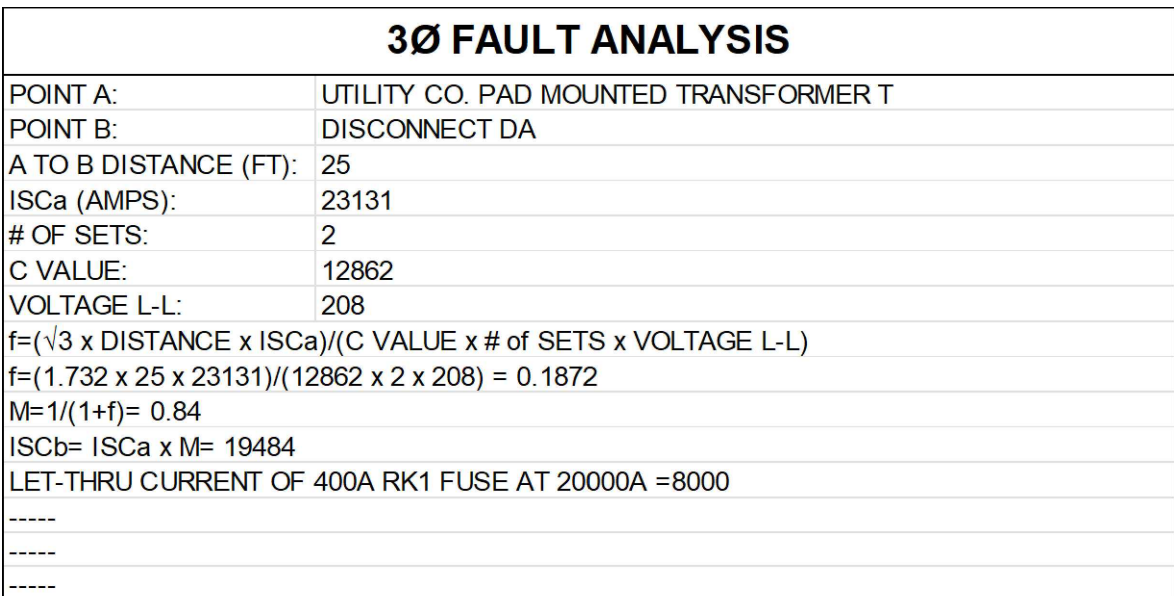
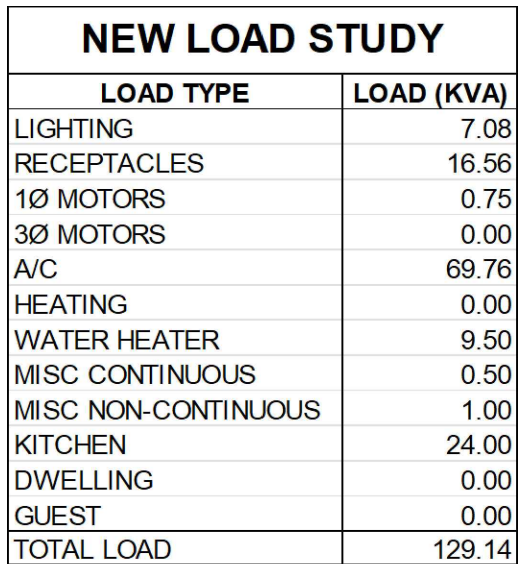
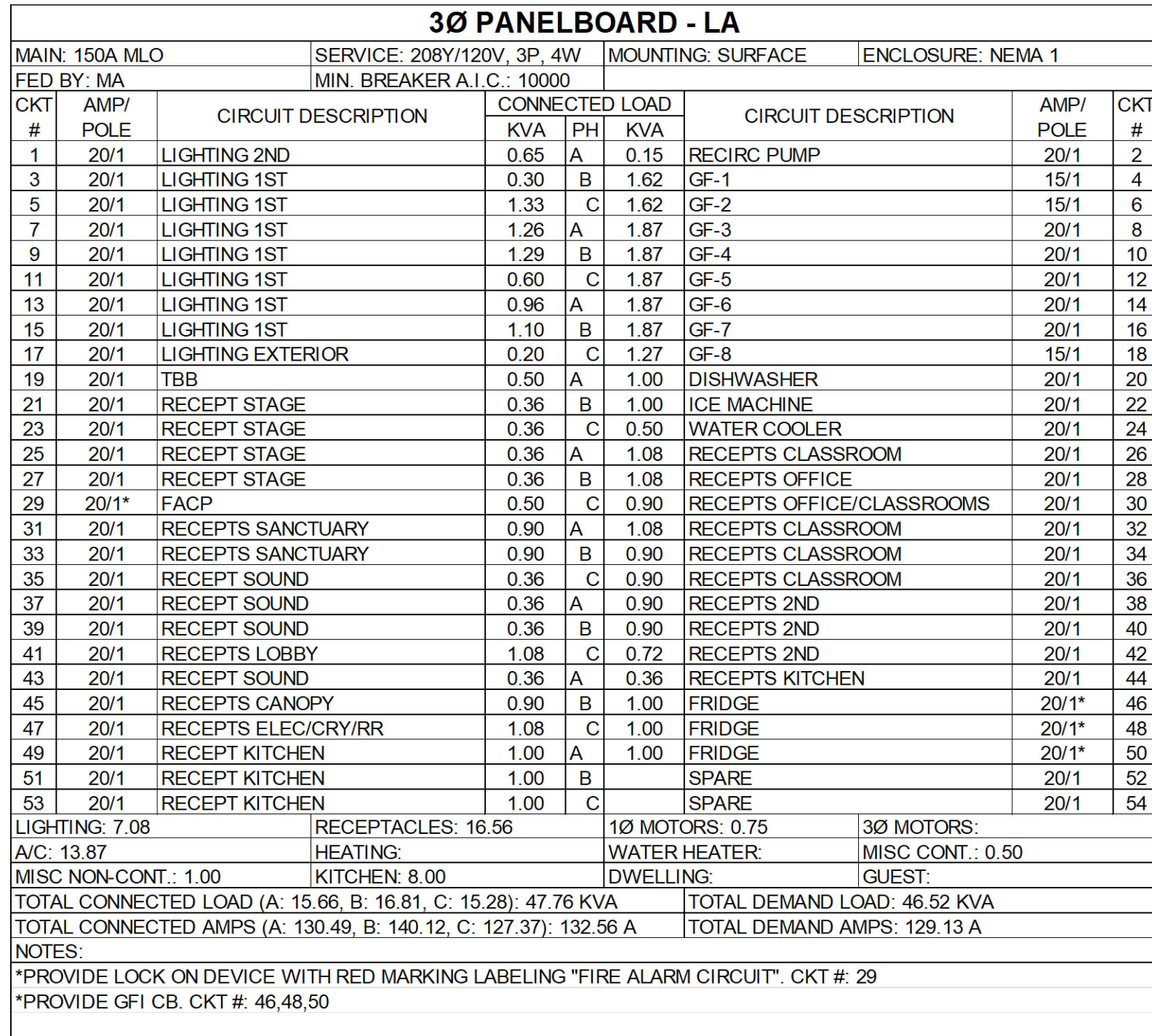
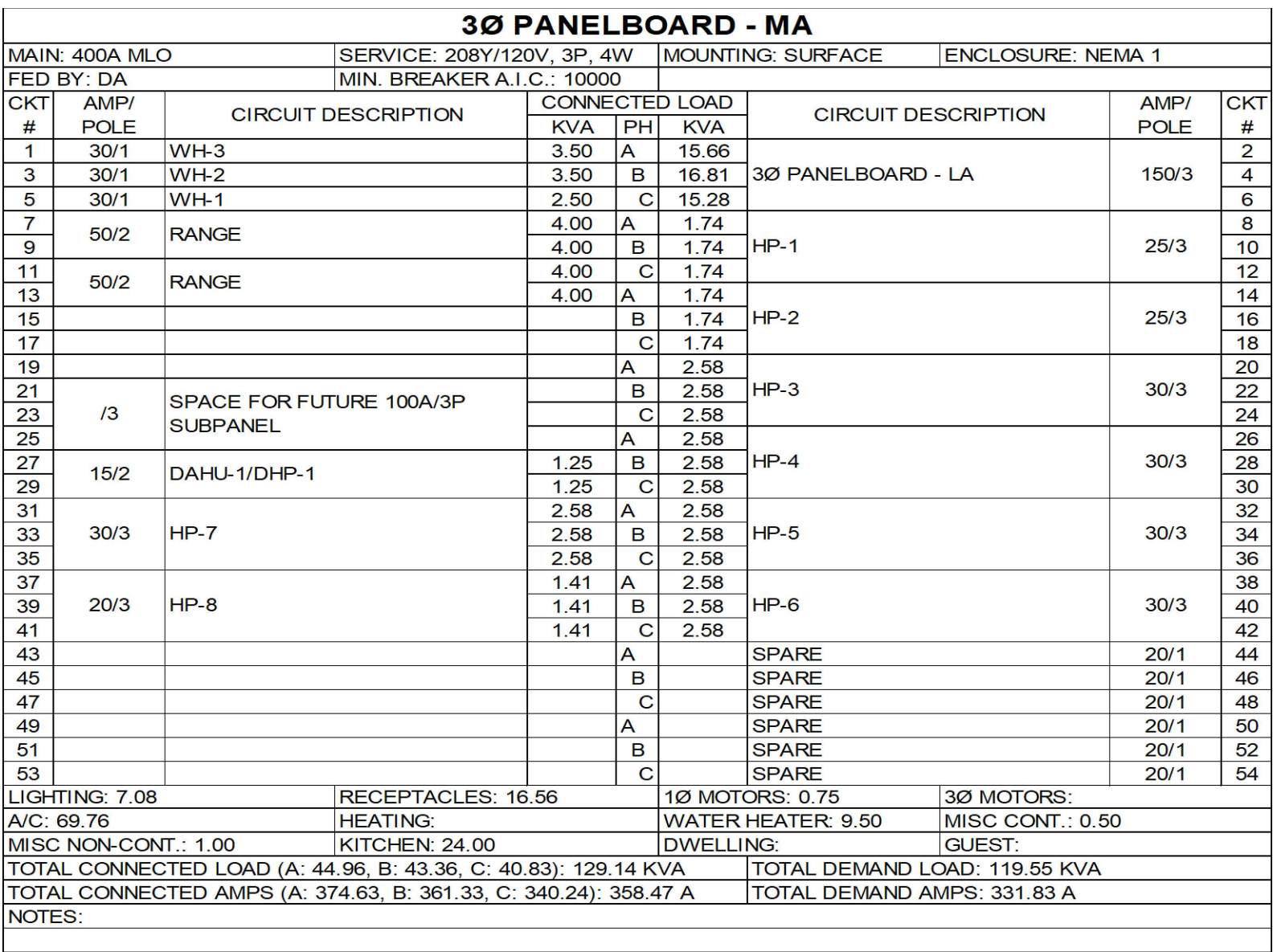
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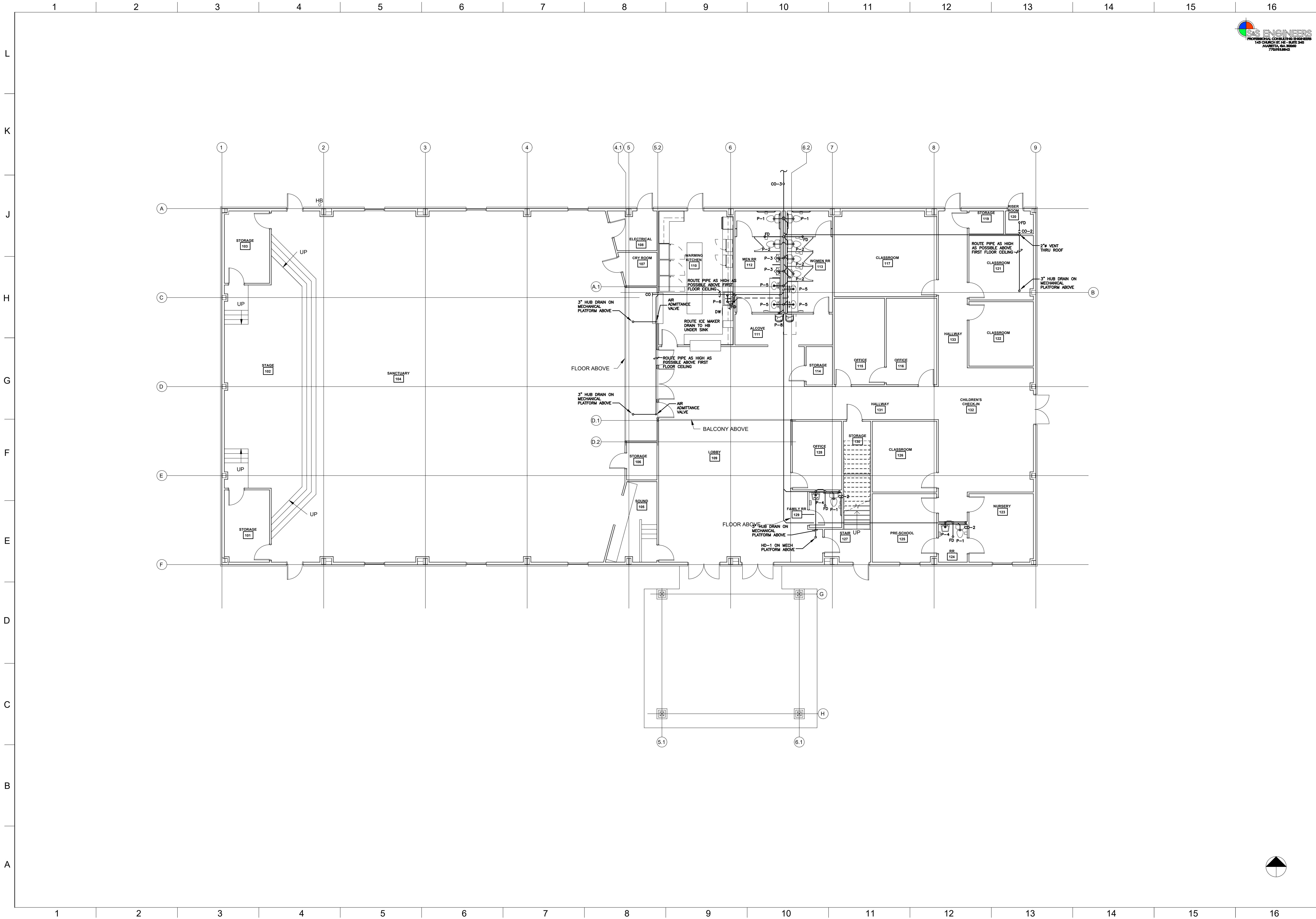
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PLUMBING  
FIRST FLOOR  
WASTE & VENT  
PLAN

P-1.0

DATE: 07/22/2022





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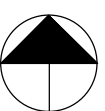
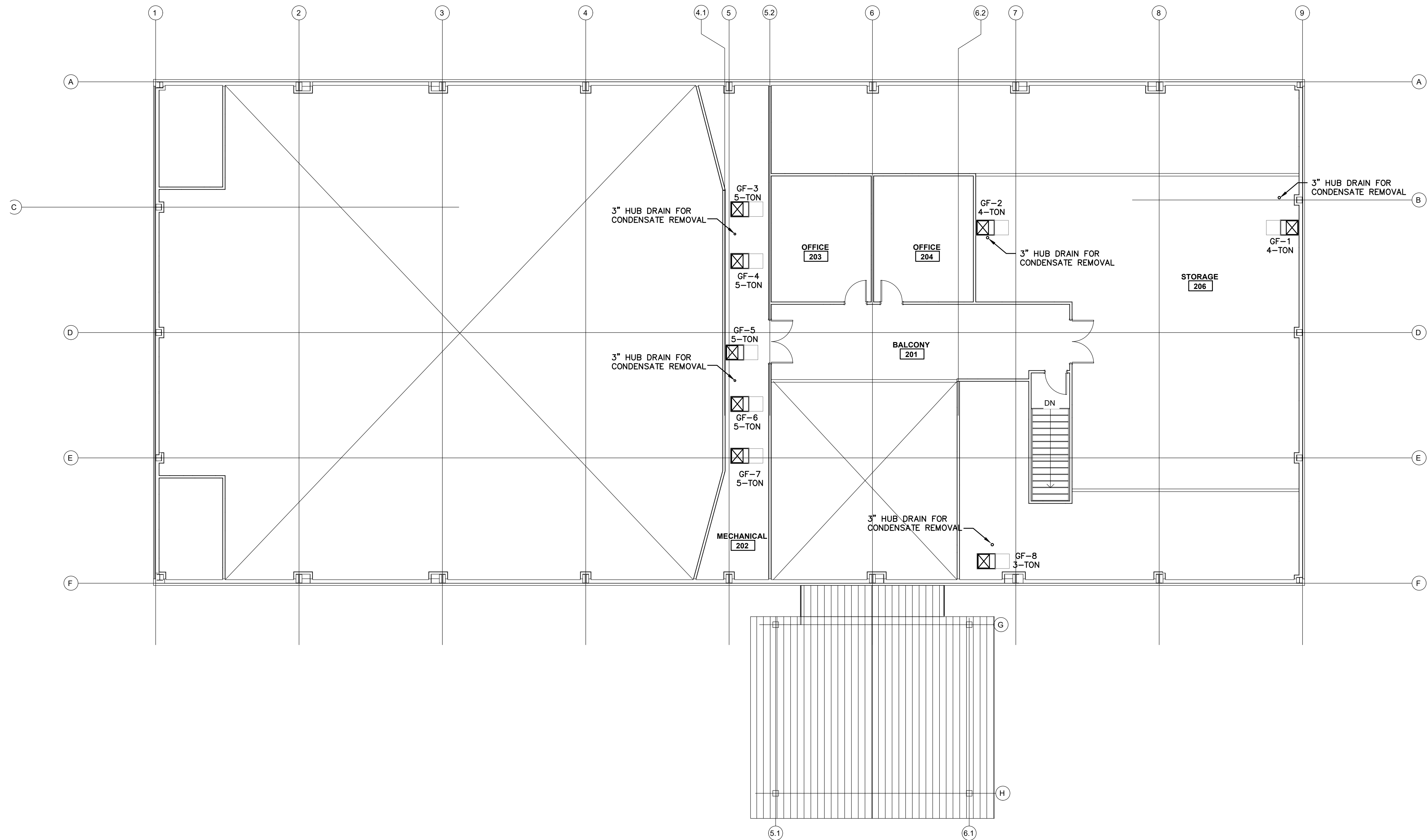
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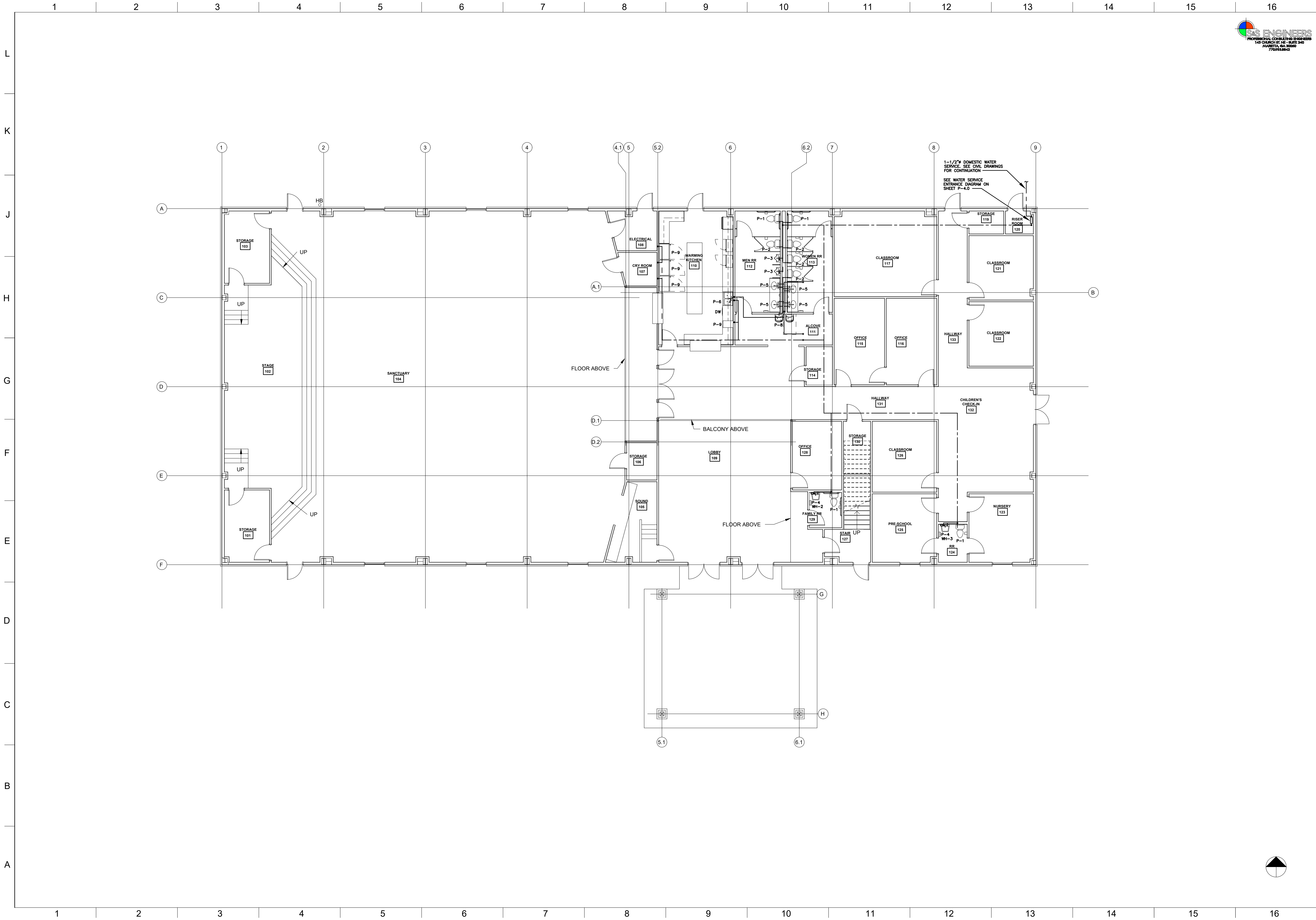
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PLUMBING  
SECOND FLOOR  
WASTE & VENT  
PLAN

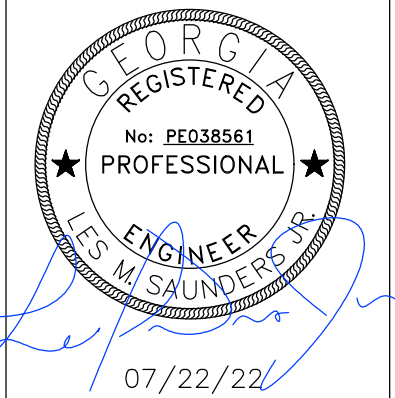
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**FELLOWSHIP OF THE HILLS**

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**PLUMBING**  
**FIRST FLOOR**  
**DOMESTIC**  
**WATER PLAN**

**P-2.0**

DATE: 07/22/2022





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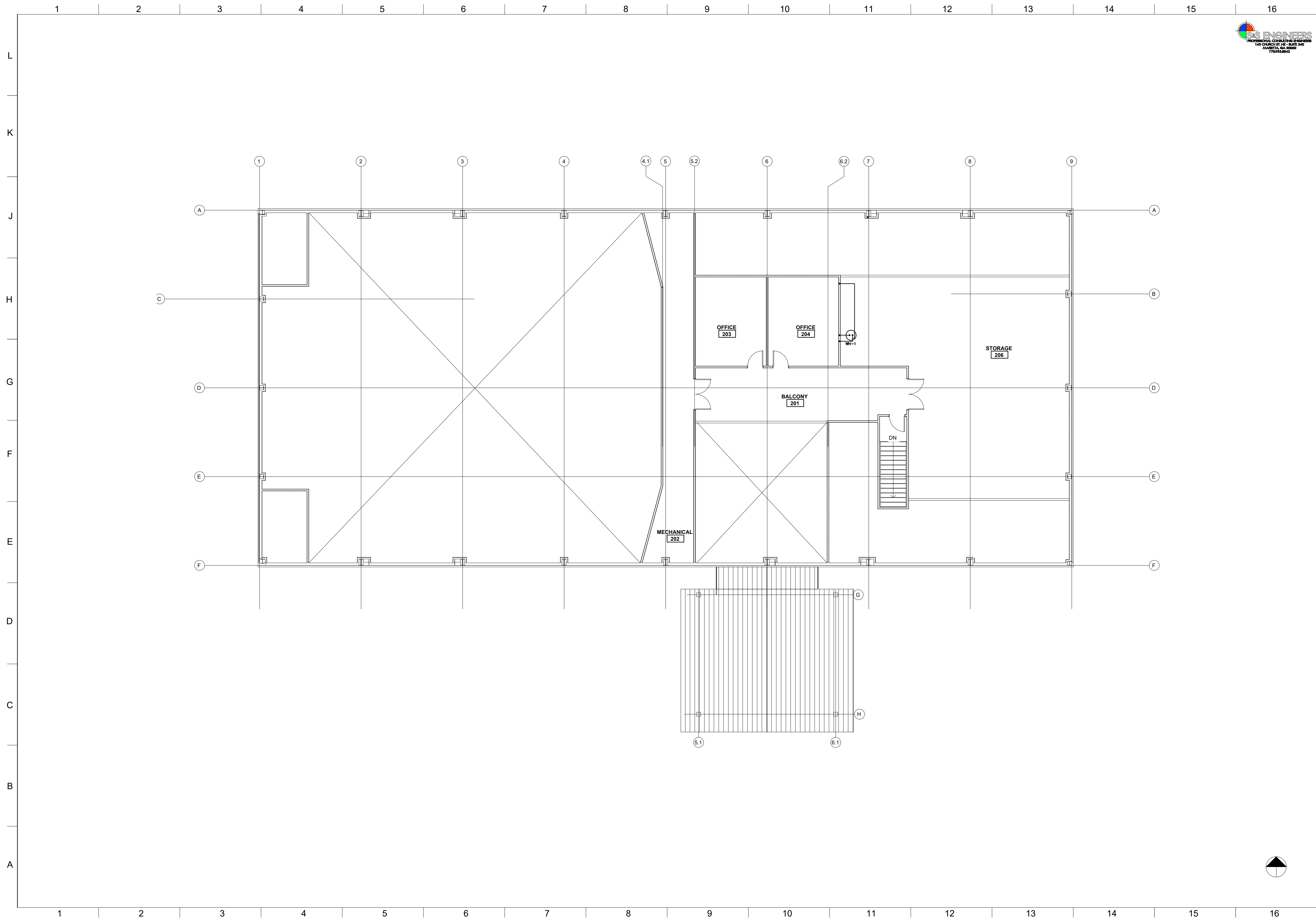
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# PLUMBING SECOND FLOOR DOMESTIC WATER PLAN

P-2.1

DATE: 07/22/2022







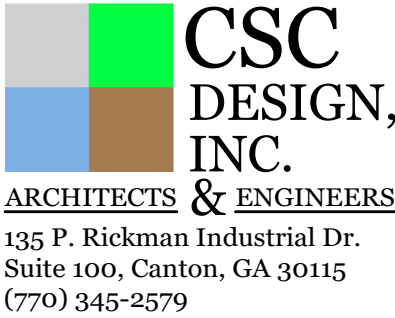
- ① EQUAL MANUFACTURERS ACCEPTED.
- ② ALL PORCELAIN FIXTURES ARE TO BE WHITE AND ARE TO BE PROVIDED BY THE SAME MANUFACTURER.
- ③ FAUCET: FIAT 830 AA, HOSE & BRACKET: FIAT 832 AA, MOP BRACKET: FIAT 889 CC, STAINLESS STEEL WALL GUARD: FIAT MSG 2424

NO.	MANUFACTURE & MODEL NO.	CAPACITY (GALLONS)	ELEMENT	REMARKS
WH-1	A.O. SMITH DEL-10S-2.5	10	2.5KW, 277V, 1ø	①②③④
WH-2	EEMAX AM004120T	TANKLESS	3.5KW, 120V, 1ø	④
WH-3	EEMAX AM004120T	TANKLESS	3.5KW, 120V, 1ø	④

- |           |                         |
|-----------|-------------------------|
| —————     | SANITARY WASTE PIPING   |
| - - - - - | SANITARY VENT PIPING    |
| — — — — — | COLD WATER              |
| - - - - - | HOT WATER               |
| — — - - - | RECIRCULATING HOT WATER |

1. REPLACE OR REPAIR ANY EXISTING EQUIPMENT DISTURBED OR DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION.
2. DISPOSE OF ALL WASTE MATERIALS IMMEDIATELY AND KEEP PREMISES CLEAN AT ALL TIMES.
3. THE CONTRACTOR SHALL ACCEPT THE PROJECT SITE IN "AS IS" CONDITION. HE SHALL VERIFY ALL THE EXISTING CONDITIONS AND THOSE FOR THE EXISTING WORK TO BE REUSED OR ALTERED. CONTRACTOR SHALL INCLUDE COSTS OF ALL REQUIRED MODIFICATIONS OR REPLACEMENTS IN ACCORDANCE WITH APPLICABLE PLANS AND SPECIFICATION SECTIONS.
4. THE DIMENSIONS AND COUNTS PROVIDED IN THE DRAWINGS AND SPECIFICATIONS ARE FIELD MEASURED AND MAY NOT BE EXACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE SITE, TAKE NECESSARY MEASUREMENTS, COUNTS AND FAMILIARIZE HIMSELF WITH ALL THE JOB CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
5. CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS, CONTRACT DOCUMENTS AND THE OWNER.
6. DO NOT UNREASONABLY ENCUMBER PREMISES WITH MATERIALS OR EQUIPMENT.
7. DO NOT LOAD STRUCTURES WITH WEIGHT THAT WILL ENDANGER STRUCTURE. ASSUME FULL RESPONSIBILITY FOR PROTECTION AND SAFEKEEPING OF PRODUCTS AND EQUIPMENT STORED ON PREMISES.
8. MAINTAIN THE PREMISES IN CLEAN AND SAFE CONDITION AT ALL TIMES.
9. THE CONTRACT OPERATIONS SHOULD NOT CAUSE ANY HINDRANCE, NUISANCE, LACK OF SAFETY, BLOCKED MEANS OF ENTRANCE AND EXIT, DAMAGE TO PROPERTY AND PERSON, DISRUPTION OF UTILITIES, EXCESSIVE AND OFFENSIVE NOISE AND DUST TO ANY OF THE ADJOINING PROPERTIES AND PERSONS. REMOVE SUCH CONDITION FORTHWITH, SHOULD THEY OCCUR AND REPAIR OR REPLACE THE DAMAGE AT OWN COST TO THE APPROVAL OF THE ENGINEER.
10. PROVIDE ACCESS TO OWNER'S AUTHORIZED PERSONS AND THE POLICE, FIRE OR OTHER DEPARTMENTS HAVING LEGAL JURISDICTION TO THE SITE AT ALL TIMES AND PROVIDE COOPERATION IN THEIR WORK.

1. SYSTEM DESIGN IS BASED ON BUILDING AS SHOWN IN THESE CONSTRUCTION DOCUMENTS. DESIGN IS FOR AN UNOCCUPIED SHELL BUILDING.
2. DESIGN BASED ON 2018 INTERNATIONAL PLUMBING CODE.



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