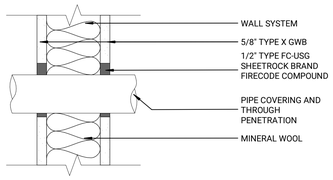
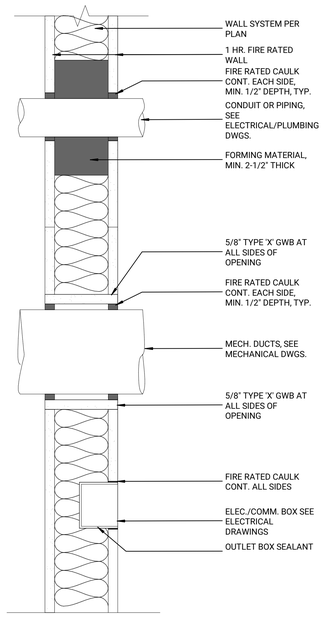
FIRE STOP PENETRATION AT 1 HOUR RATED FIRE RESISTIVE WALL ASSEMBLIES: UL DESIGN W-L-1039
1/2" TYPE FC-USG SHEETROCK ® BRAND FIRECODE ® COMPOUND



UL DESIGN W-L 1039 THROUGH PENETRATION FIRE-STOP-FRAMED WALL/FLOOR

1. **WALL ASSEMBLY** - GWB/STUD WALL ASSEMBLY PER U300 OR U400 SERIES WALL AND PARTIOTION DESIGNS:
   - A. STUDS - WALL FRAMING EITHER, MIN WOOD STUDS OR STEEL CHANNEL STUDS. WOOD 2X STUDS SPACED 16" O.C. OR STEEL STUDS MIN 2-1/2" WIDE AND SPACED MAX 24" O.C.
   - B. 1-1/2" THICK MINERAL WOOD BATTS FRICTION FITTED TO FILL INTERIOR OF STUD CAVITIES.
   - C. GWB AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAMETER OF OPENING IS 6".
2. **THROUGH PENETRATIONS** - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED IN WITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   - A. STEEL PIPE - NOM. 4- DIA. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN. 1/4" TO MAX 1-5/8" WHEN STEEL PIPE IS USED T RATING IS 0 HR.
   - B. CONDUIT - NOM. 4" DIA. OR SMALLER STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN. 1/4" TO MAX 1-5/8" WHEN CONDUIT IS 1/2" DIA. OR LESS, T RATING IS 1 HR.
   - C. COPPER TUBING - NOM. 4" DIA. (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 1/4" TO MAX 1-5/8" WHEN COPPER TUBING IS USED, T RATING IS 0 HR.
3. **FORMING MATERIAL*** - MIN. 2-1/2" THICKNESS OF MIN. 3.5 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. FORMING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4. FILL, VOID OR CAVITY MATERIAL* - NOT SHOWN - TWO COMPONENT FILL MATERIAL USED AS AN ALTERNATE TO ITEM 4. MIN. 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. READY-MIX COMPONENT MIXED WITH ACCELERATOR COMPONENT AT A RATE OF 66 PARTS OF READY-MIX COMPONENT TO 1 PART OF ACCELERATOR COMPONENT BY WEIGHT IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS. UNITED STATES GYPSUM CO - TYPE RFC.



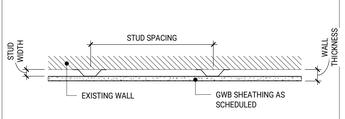
EXTERIOR WALL PARTITION

MARK	OVERALL WIDTH	FRAMING DEPTH	FRAMING TYPE	FRAMING SPACING	SHEATHING THICKNESS	WALL TERMINATION TOP	WALL TERMINATION BOTTOM	FIRE RATING HOURS	FIRE RATING UL NO.	NOTES
E8A	1'- 1 1/8"	8"	20 GA.	16" O.C.	5/8"			0	-	
E8B	3/4"	8"	20 GA.	16" O.C.	5/8"			0	-	

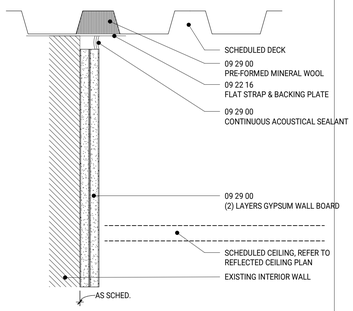
INTERIOR WALL PARTITION

MARK	DESCRIPTION	OVERALL WIDTH	FRAMING DEPTH	FRAMING TYPE	FRAMING SPACING	SHEATHING THICKNESS	WALL TERMINATION TOP	WALL TERMINATION BOTTOM	FIRE RATING HOURS	FIRE RATING UL NO.
Group A Partition - GWB / FRAMING / GWB										
A1A	GWB, 1-5/8" MTL STUD, GWB	2 7/8"	1 5/8"	20 GA.	16" O.C.	5/8"	1B/A-550	1A/A-550	0	-
A2B	2 1/2" STUD W/ SAB_5/8" GWB OS (TO DECK)	3 1/8"	2 1/2"	20 GA.	16" O.C.	5/8"	1B/A-550	1A/A-550	0	-
A3A	GYP, 3-5/8" MTL STUD, GYP	4 7/8"	3 5/8"	20 GA.	16" O.C.	5/8"	1B/A-550	1A/A-550	0	-
A3B	1 SIDE GYP, 3-5/8" MTL STUD	4 1/4"	3 5/8"	20 GA.	16" O.C.	5/8"	1B/A-550	1A/A-550	0	-
A6A	GWB, 6' MTL STUD , GWB	6 5/8"	6"	20 GA.	16" O.C.	5/8"	1B/A-550	1A/A-550	0	-
Group B Partition - 2 GWB / FRAMING / 2GWB										
B12E	(2) GWB, (2) 6' MTL STUD , (2) GWB	1' - 2 1/2"	(2) 6"	20 GA.	16" O.C.	5/8"	3B/A-550	3A/A-550	0	-
Group F Partition - GWB / FRAMING /										
F1B	1 SIDE GWB, 7/8" HAT CHANNEL	1 1/2"	1 5/8"	20 GA.	16" O.C.	5/8"	4B/A-550	4A/A-550	0	-

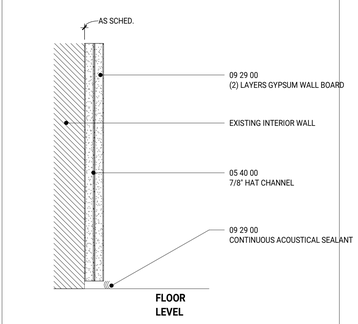
TYPE 'F' INTERIOR PARTITION



/// TYPE 'F' SERIES PARTITION **4C** — SCALE : 1 1/2" = 1'-0" — A-550

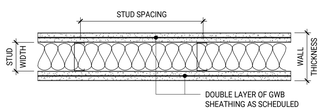


/// TYPE 'F' - TOP OF WALL **4B** — SCALE : 3" = 1'-0" — A-550

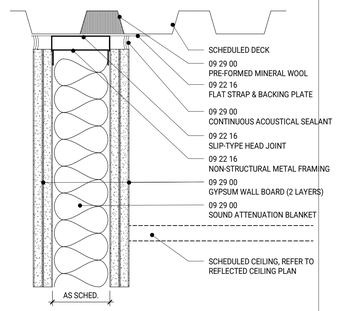


/// TYPE 'F' - BOTTOM OF WALL **4A** — SCALE : 3" = 1'-0" — A-550

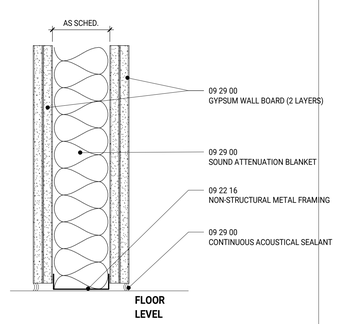
TYPE 'B' INTERIOR PARTITION



/// TYPE 'B' SERIES PARTITION **3C** — SCALE : 1 1/2" = 1'-0" — A-550

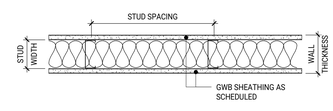


/// TYPE 'B' - TOP OF WALL **3B** — SCALE : 3" = 1'-0" — A-550

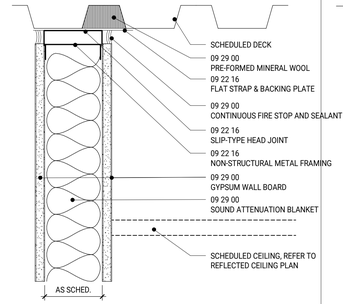


/// TYPE 'B' - BOTTOM OF WALL **3A** — SCALE : 3" = 1'-0" — A-550

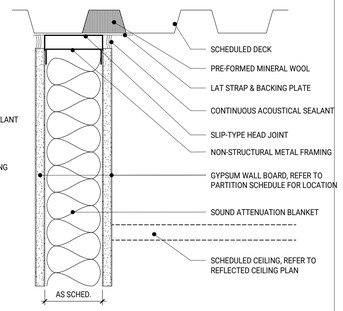
TYPE 'A' INTERIOR PARTITION



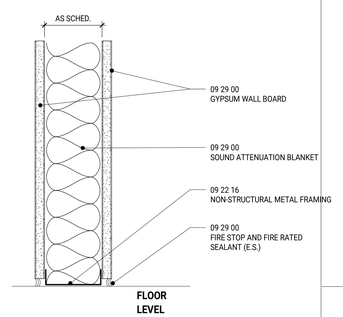
/// TYPE 'A' SERIES PARTITION **1C** — SCALE : 1 1/2" = 1'-0" — A-550



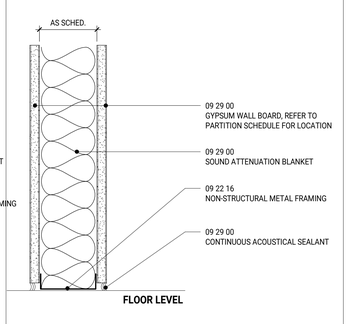
/// TYPE 'A' - TOP OF WALL (RATED) **2B** — SCALE : 3" = 1'-0" — A-550



/// TYPE 'A' - TOP OF WALL **1B** — SCALE : 3" = 1'-0" — A-550



/// TYPE 'A' - BOTTOM OF WALL (RATED) **2A** — SCALE : 3" = 1'-0" — A-550



/// TYPE 'A' - BOTTOM OF WALL **1A** — SCALE : 3" = 1'-0" — A-550

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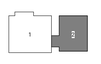
PROPOSED SITE IMPROVEMENTS FOR:
townSouth CHURCH & COMMUNITY
TOWNE SOUTH CHURCH
2224 PEARTREE RD.
ELIZABETH CITY, NC 27909



KEY PLAN

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NO.	DESCRIPTION	ISSUE DATE
A	PROGRESS PLOT	10.24.2025
B	PROGRESS PLOT	11.25.2025
C	ISSUED FOR 100% DD	2026.01.30
D	PROGRESS PLOT	2026.03.13
E	ISSUED FOR PERMIT	2026.03.23
F	ISSUED FOR 95% CD	2026.04.30

PROJECT NAME
TOWNE SOUTH CHURCH
2224 PEARTREE RD,
ELIZABETH CITY, NC 27909

CURRENT ISSUE
ISSUED FOR 95% CD
2026.04.30

SHEET NAME
WALL TYPE SCHEDULE & DETAILS

PROJECT NUMBER
25-623

SCALE
As indicated

DRAWING NUMBER
A-550

4/30/2026 8:24:28 AM

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