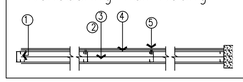
DESIGN No UL 495
Nonbearing Wall Rating – 1HR



1. Floor and Ceiling Runners – (not shown) – Channel shaped runners, 3–5/8 in. wide (min), 1–| in. legs, formed min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel, atached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Steel Studs – Channel Shaped, 3–5/8 in. wide (min), 1–1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG (min No. 20 MSG when Item 4C is used) galv steel spaced 24 in. OC max.

3. Batts and Blankets – (Optional) – Mineral wool or glass fiber batts partially or completely filling stud cavity.
See batts and blankets (BZ1Z)category for names of classified companies.

4. Gypsum Board – 2 5/8 in. thick, 4 ft. wide, attached to steel studs and floor ceiling track with 1 in. long. Type S steel acrews spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Item 6 (furring channels), wallboard is screw attached to furring channels with 1-1/2 in. long, Type S steel screws spaced 8 in. OC.

fire rated assemblies

AMERICAN GYPSUM CO. – Type AG–C.
BEIJING NEW BUILDING MATERIALS CO. LTD. – Type DBX–1
BPF AMERICA INC.
BPF CELOTEX–Type 1.
CANADIAN GYPSUM COMPANY – Types AR, C, JP–AR,
CONTINENTAL GYPSUM COMPANY – Types CG–C, CG5–5, CG6–6, CG9–9, CGTC–C
G–P GYPSUM CORP, SUB OF
GEORGIA–PACIFIC CORP. – Types 5, 9, C, DGG, DS, GPFS6,
JAMES HARDIE GYPSUM INC. – Type MAX "C" OR fIRE X.
LAFARGE GYPSUM DIV OF
LAFARGE CORP. – Types LGFC2, LGFC2A, LGFC6, LGFC6A, LGFC–C, LGFC–C/A.
NATIONAL GYPSUM CO. – Types FSK–C, FSK–G, FSW–C, FSW–G, FSW.
Fire Resistance Ratings – ANSI / UL 263 (BXUV)–Continued

PABCO GYPSUM, DIV OF
PACIFIC COAST BUILDING PRODUCTS INC – Type PG–C.
REPUBLIC GYPSUM CO. – Type RC–C.
SAM GYPSUM INDUSTRY CO. LTD. – Type Ex–1
STANDARD GYPSUM L LC – Type SG–C.
TEMPLE–INLAND FOREST PRODUCTS CORP. – Type TG–C.
UNITED STATES GYPSUM CO. – Type AR, C, FRX–G, IP–AR, 1P–X2, 1PC–AR, SCX, SHX, WRC or WRX.
YESO PANAMERICANO S. A. DE C. V. – Type AR, C, IP–AR, 1P–X2, 1PC–AR, SCX, SHX, WRC or WRX.
WESTROC INC. –Type Westroc Fireboard.

4A. Gypsum Board – (As an alternate to Item 4) – Nom 5/8 in.thick, 4 ft. wide, installed as described in item 4 with screw length increased to 1–| in.

CANADIAN GYPSUM COMPANY – Types AR, IP–AR.
UNITED STAES GYPSUM CO. – Types AR, IP–AR.
YESO PANAMERICANO S. A. DE C. V. – Types AR, IP–AR.

4C. Gypsum Board – (As an alternate to Item 4, 4A and 4B) – 5/8in. thick gypsum panels, installed as described in Item 4 with Type S–12 steel screws. The length and spacing of the screws as sepcified under Item 4.

CANADIAN GYPSUM COMPANY – Type AR, IP–AR.
UNITED STATES GYPSUM CO. – Type FRX.

5. Joint Tape and Compound – Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads, paper tape, 2 in. wide embedded in first lawyer of compound over all joints. As an alternate, nominal 3/32 in. thick gypsum veneer plaster may be applied to the\ entire surface of classified veneer baseboard. Joints reinforced.

6. Furring Channel – (Optional not shown) – Resilient 25 MSG galv steel furring channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with \ in. long type S–12 panhead steel screws. Not for use with Type FRX gypsum panels.
*Bearing the UL Classification Mark.

SAFETY NOTES FOR DOORS

EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.
HANDLES, PULLS, LEVERS AND LATCHES MUST BE EASILY GRASPABLE AND OPERABLE AND MUST ALL DOORS IN THE MEANS OF EGRESS SHALL BE SINGLE ACTION RELEASE, SHALL COMPLY WITH FAC AND SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE TO OPEN FROM THE EGRESS SIDE
AS PER NFPA 101
7.2.1.3.3 THRESHOLDS AT ACCESSIBLE DOORWAYS SHALL NOT EXCEED ½" HEIGHT RAISED.
7.2.1.3.4 THRESHOLD AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE OF NO GREATER THAN 1:12

WALL AND CEILING FINISHES TO HAVE
1– A FLAME – SPREAD CLASS OF NO MORE THAN 200
2– A SMOKE DEVELOPED INDEX NO GREATER THAN 450

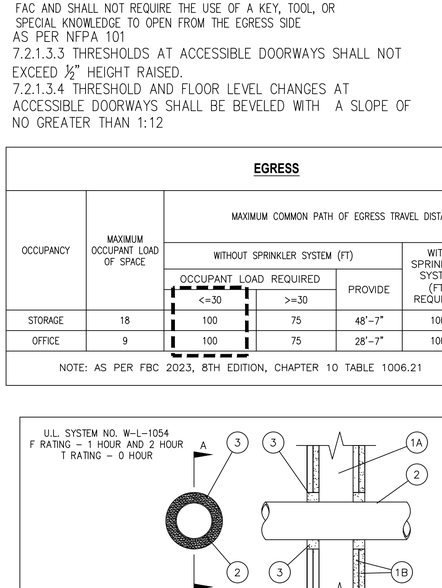
FIRE EXTINGUISHERS SHALL BE MOUNTED AT 48"A.F.F AND SHALL BE CURRENTLY DATED AND TAGGED BY LICENSED FIRE EQUIPMENT COMPANY

EGRESS

OCCUPANCY	MAXIMUM OCCUPANT LOAD OF SPACE	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (ft)				
		WITHOUT SPRINKLER SYSTEM (FT)			WITH SPRINKLER SYSTEM (FT) REQUIRED	PROVIDE
		OCCUPANT LOAD REQUIRED		PROVIDE		
		<=30	>=30			
STORAGE	18	100	75	48'–7"	100	–
OFFICE	9	100	75	28'–7"	100	–
NOTE: AS PER FBC 2023, 8TH EDITION, CHAPTER 10 TABLE 1006.21						

FIRE EXTINGUISHER NOTE:
BUILDING TO BE PROVIDED W/ FIRE EXTINGUISHERS AS SHOWN:
- TYPE–A SIZE–2
- TYPE–BC SIZE–1.
- CAPACITY 7 LBS 6 OZ MIN.
  8 LBS 2 OZ MAX.

INTERIOR FINISH MATERIAL CLASSIFIED AS PER FBC 2023 TABLE 803.9 & 2020 FFPC



1. WALL ASSEMBLY – THE 1 HOUR OR 2 HOUR FIRE–RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIAL AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES.
   A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOODS STUDS TO CONSIST OF NOMINAL 2 BY 4 INCH LUMBER CENTER. STEEL STUDS TO BE SPACED 16 INCHES ON MINIMUM 2–1/2 INCH WIDE AND SPACED MAXIMUM 24 INCH ON CENTER. WHEN STEEL STUDS ARE USED AND DIAMETER OF OPENING EXCEEDS THE WIDTH OF STUD CAVITY, THE OPENING SHALL BE FRAMED ON ALL SIDES USING LENGTHS OF STEEL STUD INSTALLED BETWEEN THE VERTICAL STUDS AND SCREW–ATTACHED TO THE STEEL STUDS AT EACH END. THE FRAMED OPENING IN THE WALL SHALL BE 4 INCH TO 6 INCH WIDER AND 4 TO 6 INCH HIGHER THAN THE DIAMETER OF THE PENETRATING ITEM IS INSTALLED IN THE OPENING, A 2 TO 3 INCH CLEARANCE IS PRESENT BETWEEN THE PENETRATING ITEM AND THE FRAMING ON ALL FOUR SIDES.
   B. WALLBOARD GYPSUM* – 5/8 INCH THICK, 4 FOOT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL. U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAXIMUM DIAMETER OF OPENING IS 14–1/2 INCH FOR WOOD STUD WALLS.
2. THROUGH PENETRANTS – ONE PNEUMATIC TUBE PIPE, OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. MAXIMUM ONE STEEL PIPE, OR CONDUIT EMT PER OPENING, CENTERED IN OPENING. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL. AN ANNULAR SPACE OF MINIMUM 0 INCH TO MAXIMUM 2–1/4 INCH IS REQUIRED WITHIN FIRESTOP SYSTEM. PNEUMATIC TUBE PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF PNEUMATIC TUBE, CONDUITS OR TUBING MAY BE USED:
   A. PNEUMATIC TUBE PIPE – NOMINAL 10 INCH DIAMETER (OR SMALLER) 16 GAUGE, COLD ROLLED, ELECTRIC WELDED STEEL, FLASH REMOVED, DEGREASED AND HOT DIP GALVANIZED.
   B. CONDUIT – NOMINAL 4 INCH DIAMETER (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
3. FILL, VOID OR CAVITY MATERIAL* – SEALANT – IN 1 HOUR FIRE RATED ASSEMBLIES, MINIMUM 5/8 INCH THICKNESS OF FILL MATERIAL APPLIED WITH THE ANNULUS, FLUSH WITH BOTH SURFACES OF THE WALL. IN 2 HOUR FIRE RATED ASSEMBLIES, MINIMUM 1–1/4 INCH THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

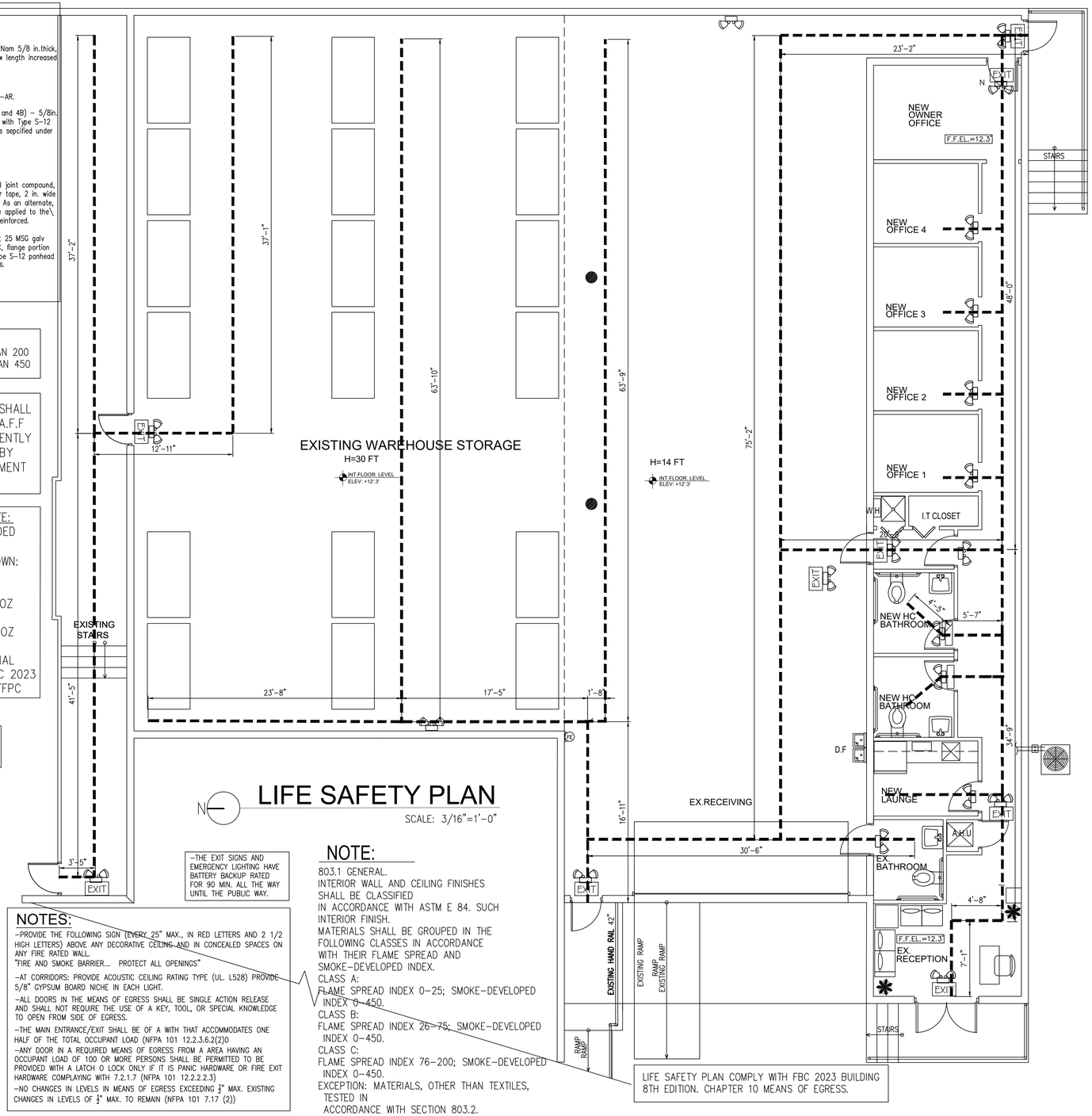
HILTI CONSTRUCTION CHEMICALS, INC. – FS–ONE OR FS601 SEALANT.
*BEARING THE UL CLASSIFICATION MARKING.

1 & 2 HOUR PENETRATION DETAIL

CAPACITY FOR DOORS:
EXTG. 36" DOOR (3'–0")
32"/0.2 = 160 MAX OCCUPANTS
X 4 DOORS= 640 OCCUPANTS.
(As per table 1005.1)

LEGEND:

- EMERGENCY LIGHT
- EMERGENCY COMBO
- EXIT EMERGENCY EXIT
- FE FIRE EXTINGUISHER
- FIRE ALARM
- EX EXISTING
- N NEW



LIFE SAFETY PLAN

SCALE: 3/16"=1'–0"

–THE EXIT SIGNS AND EMERGENCY LIGHTING HAVE BATTERY BACKUP RATED FOR 90 MIN. ALL THE WAY UNTIL THE PUBLIC WAY.

NOTES:

–PROVIDE THE FOLLOWING SIGN (EVERY 25" MAX., IN RED LETTERS AND 2 1/2 HIGH LETTERS) ABOVE ANY DECORATIVE CEILING AND IN CONCEALED SPACES ON ANY FIRE RATED WALL.
"FIRE AND SMOKE BARRIER... PROTECT ALL OPENINGS"

–AT CORRIDORS: PROVIDE ACOUSTIC CEILING RATING TYPE (UL. L528) PROVIDE 5/8" GYPSUM BOARD NICHE IN EACH LIGHT.

–ALL DOORS IN THE MEANS OF EGRESS SHALL BE SINGLE ACTION RELEASE AND SHALL NOT REQUIRE THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE TO OPEN FROM SIDE OF EGRESS.

–THE MAIN ENTRANCE/EXIT SHALL BE OF A WITH THAT ACCOMMODATES ONE HALF OF THE TOTAL OCCUPANT LOAD (NFPA 101 12.2.3.6.2(2)0

–ANY DOOR IN A REQUIRED MEANS OF EGRESS FROM A AREA HAVING AN OCCUPANT LOAD OF 100 OR MORE PERSONS SHALL BE PERMITTED TO BE PROVIDED WITH A LATCH O LOCK ONLY IF IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE COMPLAYING WITH 7.2.1.7 (NFPA 101 12.2.2.2.3)

–NO CHANGES IN LEVELS IN MEANS OF EGRESS EXCEEDING ½" MAX. EXISTING CHANGES IN LEVELS OF ½" MAX. TO REMAIN (NFPA 101 7.17 (2))

NOTE:

803.1 GENERAL.
INTERIOR WALL AND CEILING FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84. SUCH INTERIOR FINISH.
MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE–DEVELOPED INDEX.
CLASS A:
FLAME SPREAD INDEX 0–25; SMOKE–DEVELOPED INDEX 0–450.
CLASS B:
FLAME SPREAD INDEX 26–75; SMOKE–DEVELOPED INDEX 0–450.
CLASS C:
FLAME SPREAD INDEX 76–200; SMOKE–DEVELOPED INDEX 0–450.
EXCEPTION: MATERIALS, OTHER THAN TEXTILES, TESTED IN ACCORDANCE WITH SECTION 803.2.

LIFE SAFETY PLAN COMPLY WITH FBC 2023 BUILDING 8TH EDITION. CHAPTER 10 MEANS OF EGRESS.

REVISIONS

No.	

THESE DRAWING & SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF ROSARIO MONTERO WHETHER THE PROJECT FOR WHICH THEY WERE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED IN ANY MANNER ON OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH THE APPROPRIATE COMPENSATION TO ROSARIO MONTERO & ASSOCIATES

Project information:
INTERIOR RENOVATIONS FOR EXISTING WAREHOUSE

PROJECT ADDRESS:
10200 NW 25TH ST UNIT 113
DORAL, FL 33172

OWNER INFORMATION:
VALPART ENTERPRISES LLC

This item has been digitally signed and sealed by ROSARIO MONTERO, PE. on 09/05/2024.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

ROSARIO MONTERO
PROFESSIONAL ENGINEER, PE.
FL REGISTRATION No. 78464
9581 FONTAINEBLUE BVLD
MIAMI, FLORIDA 33172
PHONE: (786) 294-8305

DATE: 07.22.2024
DRAWN BY: R.G.
CHECKED BY: R.M.
SCALE: AS SHOW

LS-1