

LEE'S SUMMIT SURGICAL Ambulatory Surgery Facility 2801 NE Independence Avenue Lee's Summit, MO 64064

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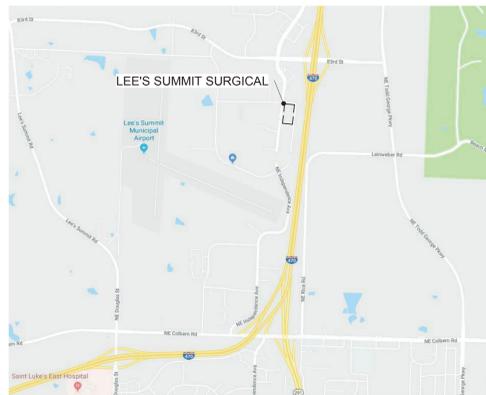
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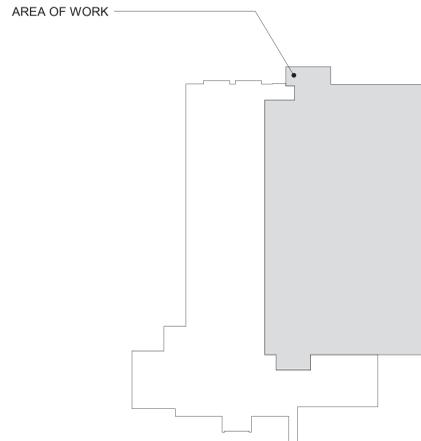
ABBREVIATIONS

AC	ACCUSTIC/ACOUSTICAL	FLR	FLUORESCENT	PTD	PAINTED
ADD	ADDRESS	FTD	FOOTING	PLM	PLANE
ADDN	ADDITION	FND	FOUNDATION	PLM	PLASTIC LAMINATE
AGC	AGGREGATE BASE COURSE	FR	FRAME	PLN	PANEL
AF	ABOVE FRESH FLOOR	F.H.C.	FIRE HOSE CAB.	PNL	PARTITION
AGG	AGGREGATE	FLD	FIELD VERIFY	PNY	PENNY
AC	AIR CONDITIONING	GA	GAUZE	PL	PLATE
AL	ALUMINUM	GL	GLASS/ GLAZING	PLB	PLUMBING
ALT	ALTERNATE	GR	GRADE	PLW	PLYWOOD
A.B.	ANCHOR BOLT	G	GRAM	PT	POINT
A	AND	GRD	GRILLE	P.S.I.	POUNDS PER SQ. IN.
ARCH	ARCHITECT	GRD	GROUND	P.S.F.	POUNDS PER SQ. FT.
ASP	ASPHALT	G.S.	GALVANIZED STEEL	PRC	PRECAST
ACT	ACOUSTICAL CEILING TILE/PANEL	GVP	GYP/PSM	P.L.	PROPERTY LINE
∠	ANGLE	GRS	GRASS	R	RISER, RISERS
BLKS	BLOCKING	H.R.	HAND RAIL	RAD	RADIUS
BSMT	BASEMENT	HN	HARDENED	R.D.	ROUGH OPENING
BM	BEAM	HDW	HARDWARE	RE	RESILIENT BASE
B.M.	BENCHMARK	HDWD	HARDWOOD	RE	REFER TO
BD	BOARD	HTR	HEATER	REGD	REGISTER
B.O.	BOTTOM OF	HT	HEIGHT	REQD	REQUIRED
BLDG	BUILDING	H.P.	HIGH POINT	REV	REVISION
CABT	CABINET	H.M.	HOLLOW METAL	RFCD	ROOFING
CLIP	CLIP IN PLACE	HORZ	HORIZONTAL	RGH	ROUGH
C.B.	CATCH BASIN	H.B.	HOSE BIB	RM	ROOM
C.D.	CEILING	H.W.	HOT WATER	RND	ROUND
CCM	CEMENT/CEMENTITIOUS	IN	INCH / INCHES	R.O.	ROUGH OPENING
CG	CENTRUM	INB	INSULATION	SCHED	SCHEDULE
CM	CENTIMETER	LD	LEAD	S.C.	SEALING CONCRETE
CL	CONTROL LINE	INT	INTERIOR	SCR	SCREW
CER	CERAMIC	INT	INTERIOR	SECT	SECTION
C.T.	CERAMIC TILE	INT	INTERIOR	SEL	SELECT
CHAN	CHANNEL	INT	INTERIOR	SHD	SHEDDING
C	CHANNEL	INT	INTERIOR	SHT	SHEET
CLR	CLEAR	JST	JOIST	SNG	SING
C.O.	CLEAN OUT	JT	JOINT	SM	SIMILAR
CLOS	CLOSET	K.P.	KICK PLATE	SLD	SLIDING
COL	COLUMN	LAM	LAMINATED	SM	SMOOTH
CONC	CONCRETE	LB	LEAD	SPEC	SPECIFICATION
CONN	CONNECTION	LD	LEAD	SQ	SQUARE
CONCT	CONSTRUCTION	LDS	LANDING	ST	STANDARD
C.J.	CONTROL JOINT	LTH	LATH	STD	STANDARD
CONT	CONTINUOUS	LW	LAWATORY	S.S.	STAINLESS STEEL
CONTR	CONTRACTOR	LV	LENGTH	STL	STRUCTURE
CORC	CORRUGATED	LOC	LOCATION	STRUC	STRUCTURE
CTR	COUNTER	LT	LIGHT	SUSP	SUSPENDED
CTSK	COUNTERSUNK	L.W.C.	LIGHT WEIGHT CONCRETE	SW BD.	SWITCHBOARD
C.M.U.	CONCRETE MASONRY UNIT	LVR	LOUVER	SYS	SYSTEM
D.P.	DAMP PROOFING	LOC	LOCATION	T	TREAD
DB	DECIBEL	M.O.	MASONRY OPENING	T.C.	TOP OF CURB
DIAG	DIAGONAL	MATL	MATERIAL	T.G.	TAMPED GLASS
DIAM	DIAMETER	MFR	MANUFACTURER	T.O.	TOP OF
DM	DIMENSION	MR	MARKER BOARD	T.S.D.	TOP OF STEEL DECK
DISP	DISPENSER	MAX	MAXIMUM	T.W.	TEACHERS WARDROBE
DWL	DOWEL	MCH	MECHANICAL	TYP	TYPICAL
DN	DOWN	M.L.	METAL LATH	U.O.N.	UNLESS OTHERWISE NOTED
D.S.	DOWNSPOUT	M	METER	V	VENT
DWG	DRAWING	MM	MINIMUM	VERT.	VERTICAL
EA	EACH	MULD	MULDING	V.G.	VERTICAL GRAN
ELEC	ELECTRIC	MULL	MULLION	VEST	VESTIBULE
E.W.C.	ELECTRIC WATER COOLER	N.G.	NATURAL GRADE	V.C.T.	VENE COMPOSITION TILE
EL	ELEVATOR	NOM	NOMINAL	VCP	VITREOUS CLAY PIPE
ELEV	ELEVATOR	N.C.	NOT IN CONTRACT	W.W.M.	WELDED WIRE MESH
EQ	EQUIPMENT	N.T.S.	NOT TO SCALE	W.C.	WATER CLOSET
EQUIP	EQUIPMENT	NO. #	NUMBER	W.F.	WIDE FLANGE
EXPAN	EXPANSION	OBS	OBSCURE	W	WITH
E.J.	EXPANSION JOINT	O.C.	ON CENTER	WID	WITHOUT
EXIST	EXISTING	OPNG	OPENING	W	WOOD
EXT	EXTERIOR	O.A.	OVERALL	WDW	WINDOW
FT.	FEET / FOOT	O.D.	OUTSIDE DIAMETER	W.W.	WINDOW WALL
FIN	FINISH	O.F.S.	OVERFLOW SCUPPER		
FINI	FINISH	O.F.D.	OVERFLOW DRAIN		
FL	FLOOR	O.H.D.	OVERHEAD DOOR		
FLR	FLOOR				
F.D.	FLOOR DRAIN				

PROJECT LOCATION



KEY PLAN



GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY BUILDING PERMITS.
- THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES OR DISCREPANCIES WITH THE PROJECT DOCUMENTS. ACCESS TO THE SITE AND/OR SPACE UNDER CONSTRUCTION DURING BIDDING AND CONSTRUCTION SHALL BE COORDINATED WITH THE OWNER.
- DO NOT SCALE DRAWINGS.
- THE WORD "ALIGN" AS USED IN THESE DOCUMENTS SHALL SUPERSEDE ANY DIMENSIONAL INFORMATION GIVEN.
- TYPICAL DIMENSIONS ARE TO FACE OF CONCRETE, DRYWALL, CURTAIN WALL, ETC., OR TO COLUMN CENTERLINE. DIMENSIONS AT WINDOWS ARE TYPICALLY TO FACE OF FRAME. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING AND CONFIRMING ALL SUBSTRATE CONDITIONS WHERE NEW MATERIALS ARE APPLIED. THE SUBSTRATE SHALL BE SMOOTH AND FREE OF DEFECTS AND SHALL CONFORM TO THE REQUIREMENTS OF THE FINISHED MATERIAL MANUFACTURERS RECOMMENDATIONS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN-UP.
- THE GENERAL CONTRACTOR SHALL INSPECT AND CHECK THE ADEQUACY AND INSTALLATION OF THROUGH-WALL FLASHING PRIOR TO COVERING WITH FINISH MATERIALS. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO INSPECTION AGAINST HOLES OR PENETRATIONS. APPROPRIATE LAPPING AND SEALING, AND OVERALL WORKMANSHIP IN CONFORMANCE WITH THE SPECIFICATIONS.

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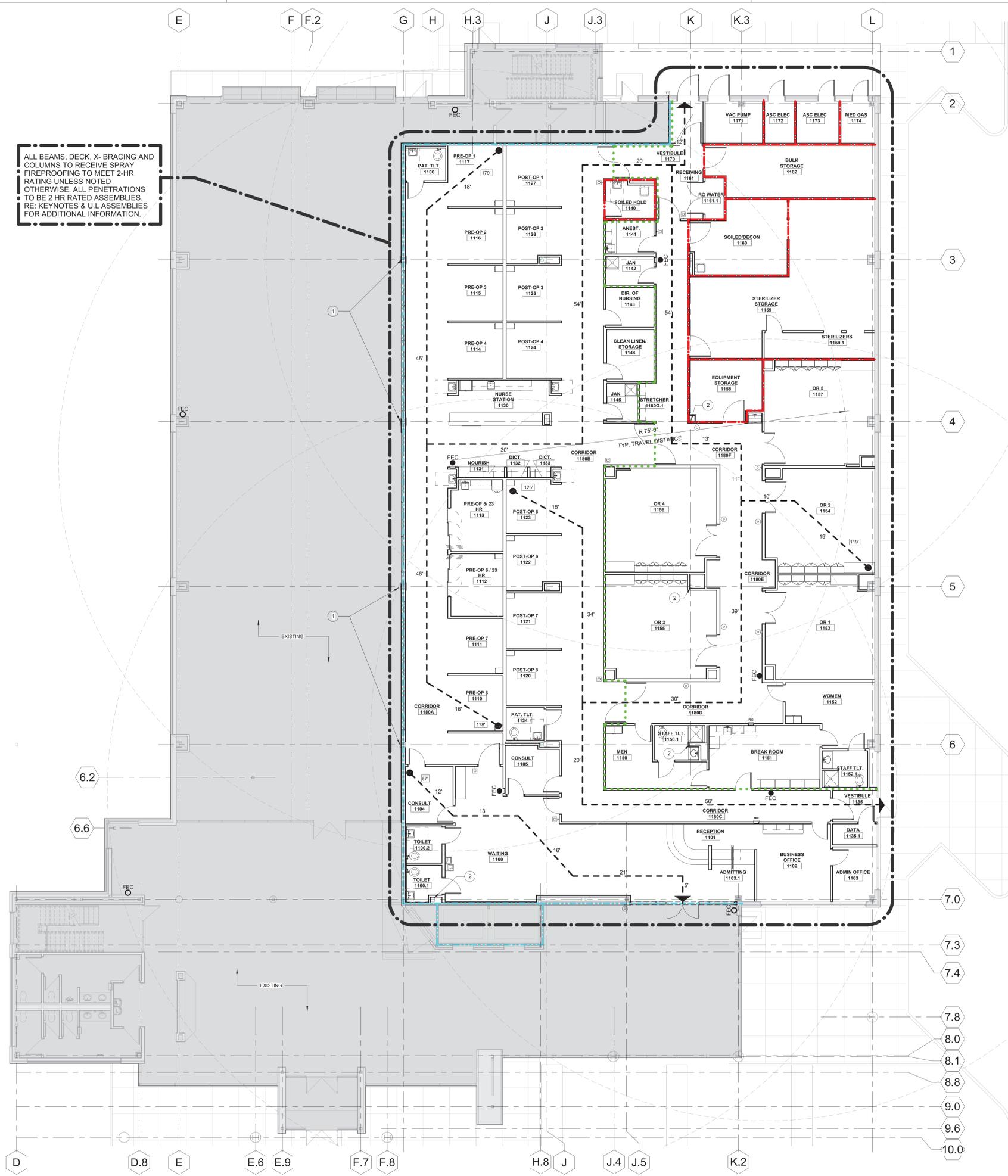
RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/04/2021

Lee's Summit Surgical
Ambulatory Surgery Facility
2801 NE Independence Avenue
Lee's Summit, Missouri 64064

Date	7/1/2019
Job Number	3-18243
Drawn By	BM
Checked By	AD

Revision		
Number	Date	Description

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ALL BEAMS, DECK, X-BRACING AND COLUMNS TO RECEIVE SPRAY FIREPROOFING TO MEET 2-HR RATING UNLESS NOTED OTHERWISE. ALL PENETRATIONS TO BE 2 HR RATED ASSEMBLIES. RE: KEYNOTES & U.L. ASSEMBLIES FOR ADDITIONAL INFORMATION.

LIFE SAFETY LEGEND

- EXIT
- NEW FIRE EXTINGUISHER CABINET
- EXISTING FIRE EXTINGUISHER CABINET
- OUT OF SCOPE
- 0 HR SMOKE PARTITION (SMOKE RESISTIVE)
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- 2 HR FIRE SMOKE BARRIER
- TOTAL TRAVEL DISTANCE

CODE SUMMARY

PROJECT CONSTRUCTION PURPOSE: NEW AMBULATORY SURGERY CENTER

CODE INFORMATION
 2018 INTERNATIONAL BUILDING CODE
 2018 INTERNATIONAL PLUMBING CODE
 2018 INTERNATIONAL MECHANICAL CODE
 2018 INTERNATIONAL FIRE CODE
 2017 NATIONAL ELECTRICAL CODE (NFPA 70)
 2012 LIFE SAFETY CODE (NFPA 101)
 ICC/ANSI A117.1-2017
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN/AMERICANS WITH DISABILITIES ACT OF 1990
 2014 GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES

NOTE: IF CODE REQUIREMENTS OVERLAP, THE MOST STRINGENT SHALL APPLY.

OWNER INFORMATION
 PARTNERS SURGICAL CORPORATION
 2200 POST OAK BLVD
 SUITE 1255
 HOUSTON, TEXAS 77056

DESIGNER INFORMATION
 ACI/BOLAND ARCHITECTS
 1710 WYANDOTTE ST
 KANSAS CITY, MO 64108
 PHONE: (816) 763-9600
 FAX: (816) 763-9757

LOCAL AUTHORITY
 RESPONDING FIRE SERVICE: LEE'S SUMMIT FIRE DEPARTMENT
 LOCAL BUILDING INSPECTION: LEE'S SUMMIT DEVELOPMENT SERVICES

OCCUPANCY GROUP:
 B - BUSINESS

OCCUPANT LOAD:
 AMBULATORY SURGICAL CENTER: 100 SF / OCCUPANT
 TOTAL SQUARE FOOTAGE: 13,260 OSF
 TOTAL NUMBER OF OCCUPANTS = 133

EGRESS WIDTHS:
 13' X 0' 15" = 19' 09" REQUIRED
 (11' 6" DOOR, 0' 4" 5" DOORS = 168" PROVIDED)

TYPE OF CONSTRUCTION:
 IIB

AREA OF RENOVATION:
 13,260 SF

REQUIRED FIRE RESISTANCE RATINGS (IN HOURS) PER NFPA 101 A.2.1.2:

EXTERIOR BEARING WALLS	0 HR
INTERIOR BEARING WALLS	0 HR
PRIMARY STRUCTURAL FRAME	2 HR
FLOOR CONSTRUCTION (TI ONLY)	2 HR
ROOF CONSTRUCTION	0 HR
INTERIOR NON-BEARING WALLS	0 HR

ACTIVE FIRE SAFETY FEATURES:
 - FIRE ALARM SYSTEM - THE FIRE ALARM SYSTEM IS SPECIFIED AS AN ADDRESSABLE TYPE SYSTEM. THE DEVICE TYPE AND LOCATIONS ARE PER THE APPLICABLE CODES AS WELL AS ADA REQUIREMENTS.
 - SMOKE CONTROL SYSTEM - ALL DUCTWORK PENETRATING SMOKE RATED WALLS WILL HAVE A SMOKE OR COMBINATION FIRE/SMOKE DAMPER AS INDICATED ON CONSTRUCTION DOCUMENTS. THESE DAMPERS WILL CLOSE UPON DETECTION OF SMOKE BY THE AREA SMOKE DETECTORS OR DUCT SMOKE DETECTORS IN THE AIR HANDLING UNITS.
 - FIRE SPRINKLER SYSTEM - SPECIFIED TO BE PER NFPA 13. THE SPRINKLER HEADS ARE SPECIFIED TO BE QUICK RESPONSE TYPE.
 - EMERGENCY LIGHTING AND POWER - EMERGENCY LIGHTING, LIFE SAFETY AND CRITICAL LOADS WILL RECEIVE POWER FROM A BACKUP GENERATOR LOCATED OUTSIDE THE MAIN ELECTRICAL ROOM.
 - ILLUMINATED EXIT SIGNS

PASSIVE FIRE SAFETY FEATURES:
 - SMOKE COMPARTMENTS NO GREATER THAN 22,500 SF
 - FIREPROOFING STRUCTURAL STEEL AND DECK.

KEYNOTES - LIFE SAFETY PLAN

Number	Comments
1	GYP. BD. MTL. STUD FIRE RATED COLUMN WRAP ASSEMBLY, TYP. RE: UL ASSEMBLY #509.
2	PROVIDE INTUMESCENT PAINT COATING @ STEEL COLUMN TO MEET UL#661 RE: UL ASSEMBLIES

A1 LIFE SAFETY PLAN
 1/8" = 1'-0"

GRAPHIC SCALE

0 8 16 24 32

NORTH

*THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. USE BLACK AND WHITE COPIES AT YOUR OWN RISK.

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 ARCHITECT
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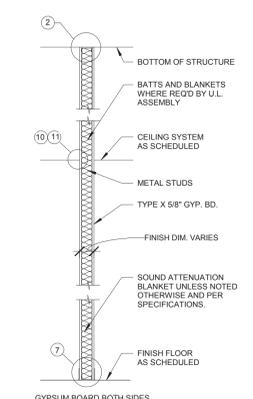
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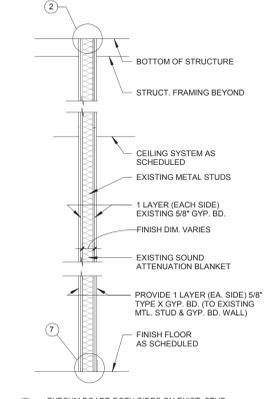
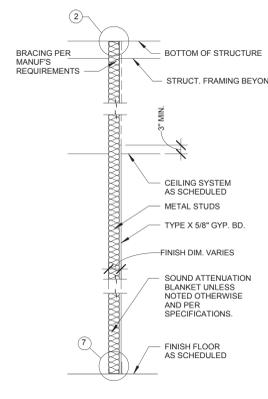
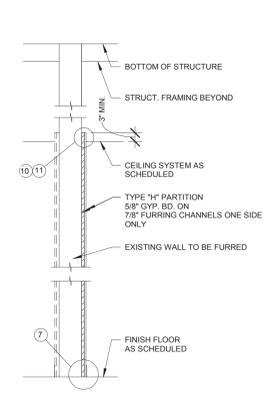
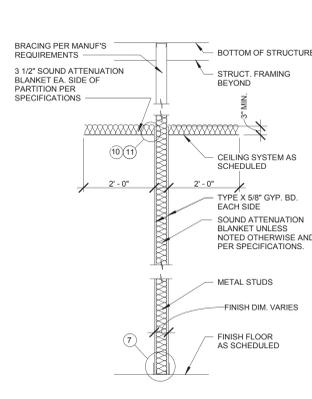
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 LIFE SAFETY PLAN



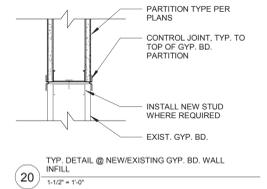
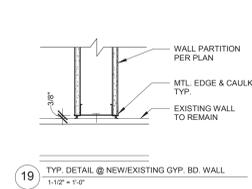
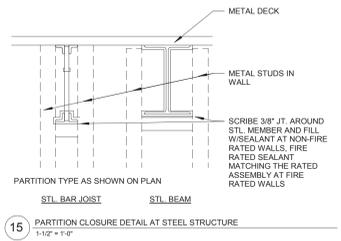
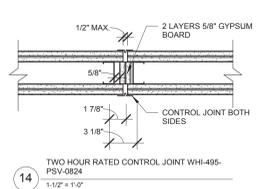
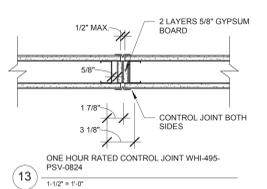
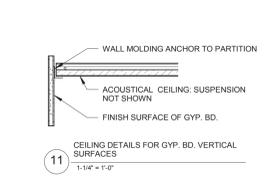
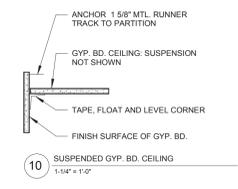
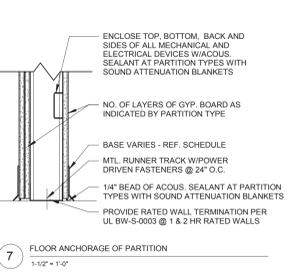
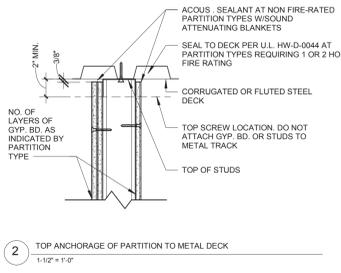
U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN

---	1 HOUR FIRE SEPARATION
---	U.L. U465 FOR 3 5/8" STUDS
---	U.L. U442 AT FLEED WALLS
---	U.L. U461 FOR 2 1/2" STUDS



U.L. DESIGNATIONS AT RATED WALLS AS INDICATED ON LIFE SAFETY PLAN

---	2 HR FIRE BARRIER
---	U.L. U411 FOR 6" STUDS



PARTITION GENERAL NOTES

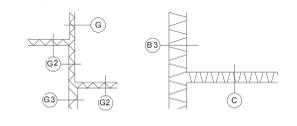
- UNLESS NOTED OTHERWISE, ALL INTERIOR METAL STUDS ARE 3 5/8" THICK. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF METAL STUDS OTHER THAN 3-5/8" THICK. NOTE: STUD THICKNESS (GAUGE) MUST CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SPAN (HEIGHT OF STUD)
- WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE METAL STUD THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	MTL. STUD THICKNESS
1	1-5/8" MTL. STUDS
2	2-1/2" MTL. STUDS
3	6" MTL. STUDS

- UNLESS NOTED OTHERWISE, ALL INTERIOR DRYWALL PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'A' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
- UNLESS NOTED OTHERWISE, ALL CMU PARTITIONS ARE 7-5/8", 8" NOMINAL. REFER TO SUFFIX SCHEDULE BELOW FOR LOCATIONS OF CMU PARTITIONS OTHER THAN 8" NOMINAL.
- WHERE THE PARTITION TYPE INDICATION IS SHOWN WITH A NUMERICAL SUFFIX, THE CMU THICKNESS SHALL BE AS SCHEDULED BELOW:

SUFFIX	CMU THICKNESS
1	ACTUAL 3-5/8", 4" NOMINAL
2	ACTUAL 5-5/8", 6" NOMINAL
3	ACTUAL 11-5/8", 12" NOMINAL

- UNLESS NOTED OTHERWISE, ALL INTERIOR MASONRY PARTITIONS INDICATED ON THE FLOOR PLAN DRAWING ARE TYPE 'B' PARTITIONS. WHERE OCCURS, RATINGS ARE AS INDICATED ON THE LIFE SAFETY PLANS.
- ALL STUDS ARE CONTINUOUS FROM FLOOR STRUCTURE TO CEILING STRUCTURE UNLESS NOTED OTHERWISE.
- METAL STUDS ARE SPACED @ 16" O.C. MAX., UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, ALL GYPSUM BOARD IS TO BE 5/8" THICK "FIRECODE".
- THE LOCATION OF A CHANGE IN THE PARTITION TYPE IS INDICATED BY A WALL TAG.



- FIRE AND SMOKE WALLS ARE SHOWN ON THE LIFE SAFETY PLAN (A0.1) WITH THE FIRE RATINGS INDICATED AS FOLLOWS:

Line Style	Description
--- (dashed)	SMOKE PARTITION (NON-RATED- SMOKE RESISTIVE)
--- (dotted)	1 HR SMOKE BARRIER
--- (dash-dot)	1 HR FIRE BARRIER
--- (long-dash)	1 HR FIRE SMOKE BARRIER
--- (short-dash)	2 HR FIRE BARRIER
--- (dash-dot-dot)	2 HR FIRE SMOKE BARRIER

THE CORRESPONDING RATED ASSEMBLIES ARE INDICATED BELOW THE PARTITION TYPES.

- PARTITION TYPE DESIGNATIONS ARE INDICATED ON THE FLOOR PLAN DRAWINGS.
- PARTITION TYPES DO NOT INCLUDE APPLIED FINISHES CALLED FOR IN THE ROOM FINISH SCHEDULE.
- AT PARTITION TYPES WHERE MTL. STUDS ARE EXPOSED ON ONE OR BOTH SIDES, CUT STUD 1/4" SHORT AND SCREW BOTH SIDES TO MTL. RUNNER TRACK.



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Licensee's Certificate of Authority Number:
Phone Number: 913.221.0930

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 01/04/2021

**Lee's Summit Surgical
Ambulatory Surgery Facility
2801 NE Independence Avenue
Lee's Summit, Missouri 64064**

Date 7/1/2019
Job Number 3-18243
Drawn By BM
Checked By AD

Revision
Number Date Description



Samuel K. Beckman - Architect
License - Missouri EA-2011012130

ACI BOLAND ARCHITECTS

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

ACI/Boland, Inc.
Kansas City | St. Louis
Licensee's Certificate of Authority Number:
Missouri: #000958

MEP CONSULTANT
G&W Engineering Corporation
138 Weldon Parkway
Maryland Heights, MO 63043
Licensee's Certificate of Authority Number:
#2002018767
Phone Number: 314.737.4200

INTERIOR & EQUIPMENT CONSULTANT

Benson Method
8021 Santa Fe Drive, Ste 100
Overland Park, KS 66204
Licensee's Certificate of Authority Number:
Phone Number: 913.221.0930

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
01/04/2021

Lee's Summit Surgical
Ambulatory Surgery Facility
2801 NE Independence Avenue
Lee's Summit, Missouri 64064

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SYMBOLS

1 A101 (Detail Bubble Example)

1 Ref (Wall Section Symbol)

1 A101 (Sectional Detail Symbol)

101 (Room Name and Number Symbol)

101 (Door Tag)

101 (Window Tag)

TA-0 (Toilet Accessory Tag)

E-0 (Equipment Tag)

AA (Wall Type Symbol)

Spot Elevation

Power Actuator

Prox Reader

Prox Reader w/Power Actuator

North Arrow Symbol

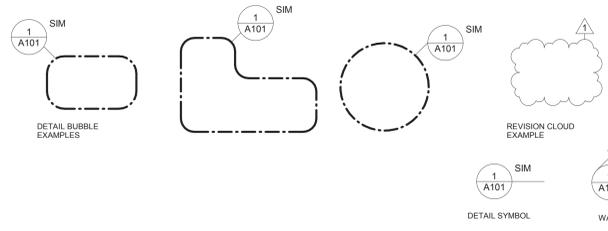
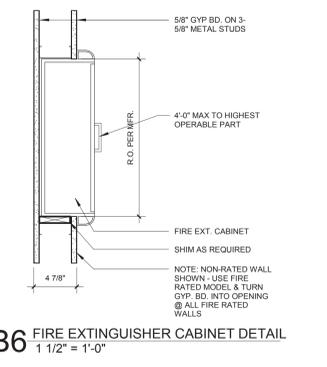
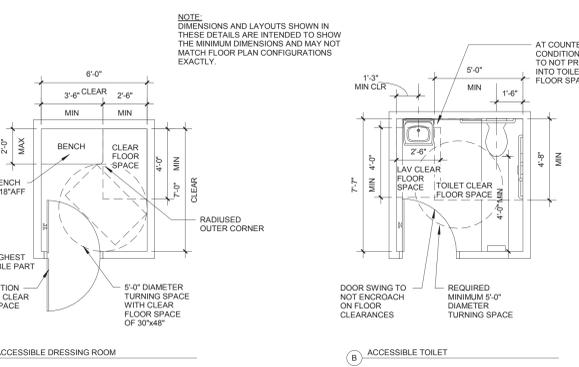
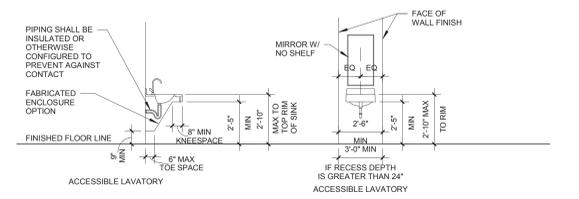
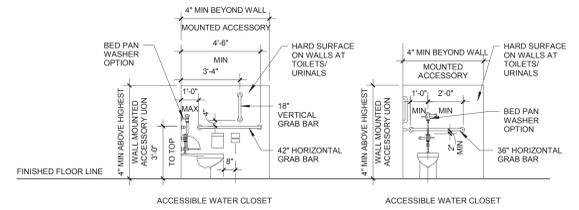
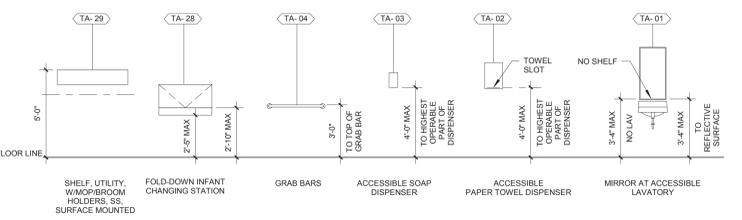
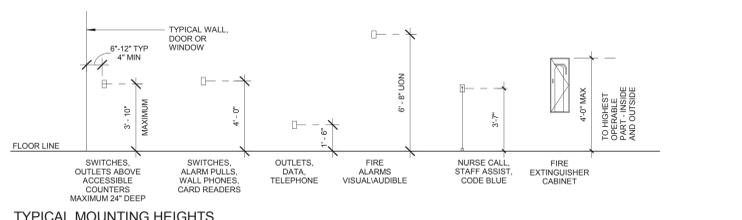
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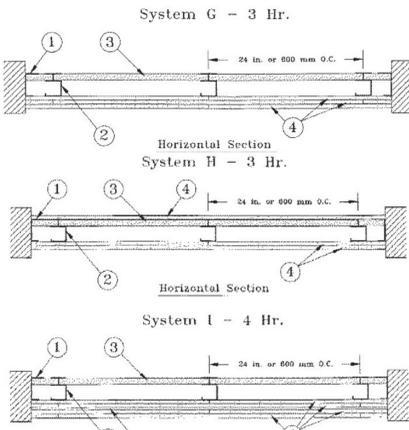
Keynote Symbols

Revision Symbol

Magnetic Door Hold

TYPE MARK	DESCRIPTION	RESPONSIBILITY	COMMENTS
TA-01	MIRROR (18" X 36")	CFGI	PROVIDE IN WALL BLOCKING
TA-01.3	FULL HEIGHT MIRROR (24" X 60")	CFGI	PROVIDE IN WALL BLOCKING
TA-02	PAPER TOWEL DISPENSER	CFGI	PROVIDE IN WALL BLOCKING
TA-03	SOAP DISPENSER	CFGI	PROVIDE IN WALL BLOCKING
TA-04	HORIZONTAL GRAB BAR 36"	CFGI	PROVIDE IN WALL BLOCKING
TA-05	HORIZONTAL GRAB BAR 48"	CFGI	PROVIDE IN WALL BLOCKING
TA-06	VERTICAL GRAB BAR 24"	CFGI	PROVIDE IN WALL BLOCKING
TA-08	TOILET PAPER DISPENSER	CFGI	PROVIDE IN WALL BLOCKING
TA-09	CUBICLE CURTAINS & TRACKS	CFGI	PROVIDE CEILING BLOCKING
TA-12	COAT HOOK	CFGI	PROVIDE IN WALL BLOCKING
TA-12.1	STRIP COAT HOOKS	CFGI	PROVIDE IN WALL BLOCKING
TA-20	CORNER SHOWER GRAB BAR	CFGI	PROVIDE IN WALL BLOCKING
TA-24	SHOWER CURTAIN, ROD & HOOKS	CFGI	PROVIDE IN WALL BLOCKING
TA-25	SHOWER SEAT	CFGI	PROVIDE IN WALL BLOCKING, FLIP DOWN INTEGRATED BENCH W/ TEAK FINISH
TA-28	BABY CHANGING STATION	CFGI	PROVIDE IN WALL BLOCKING
TA-29	UTILITY SHELF	CFGI	PROVIDE IN WALL BLOCKING





1. Floor, Side and Ceiling Runners - "F" - Horizontal Section

- 1. Floor, Side and Ceiling Runners - "F" - Horizontal Section
2. Steel Studs - "C" or "H" - Shaped studs, min 2-1/2 in. deep
3. Furring Channels - Formed of No. 25 MSG galv steel
4. Steel Framing Members - Used to attach furring channels

2E. Steel Framing Members - (Optional, Not Shown)

- 2E. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

2F. Steel Framing Members - (Optional, Not Shown)

- 2F. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

2G. Gypsum Board - (Optional, Not Shown)

- 2G. Gypsum Board - (Optional, Not Shown)
1. Gypsum Board - (Optional, Not Shown)
2. Steel Studs - "C" or "H" - Shaped studs
3. Furring Channels - Formed of No. 25 MSG galv steel

2H. Furring Channels - (Optional, Not Shown)

- 2H. Furring Channels - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Studs - "C" or "H" - Shaped studs
c. Furring Channels - Formed of No. 25 MSG galv steel

2I. Steel Framing Members - (Optional, Not Shown)

- 2I. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

2J. Steel Framing Members - (Optional, Not Shown)

- 2J. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

2K. Steel Framing Members - (Optional, Not Shown)

- 2K. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

2L. Steel Framing Members - (Optional, Not Shown)

- 2L. Steel Framing Members - (Optional, Not Shown)
a. Furring Channels - Formed of No. 25 MSG galv steel
b. Steel Framing Members - Used to attach furring channels
c. Steel Framing Members - Used to attach furring channels

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing.

UNITED STATES GYPSUM CO - 1/2 in. Type C, IP-X2, IPC-AR, 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SOX, SHX, ULX, USGX, WRC, WXC

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C, 5/8 in. Types C, SCX, SOX, USGX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR, 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WXC

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type 5 steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type 5 steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

UNITED STATES GYPSUM CO - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SOX, SHX, ULX, USGX, WRC, WXC

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C, 5/8 in. Types C, SCX

USG MEXICO S A DE CV - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WXC

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to the flange of the "C" section of the studs. Middle layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 24 in. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 16 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC - Type C

USG MEXICO S A DE CV - Types C, IP-X2, IPC-AR, WRC

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 16 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC - Type C

USG MEXICO S A DE CV - Types C, IP-X2, IPC-AR, WRC

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. Outer or face layer attached to studs with 1-5/8 in. long Type 5 steel screws spaced 16 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR, WRC

USG BORAL DRYWALL SFZ LLC - Type C

USG MEXICO S A DE CV - Types C, IP-X2, IPC-AR, WRC

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally over square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type 5 self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type 5 self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type 5 self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type 5 self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 12 in. from third layer; otherwise all joints staggered min 12 in.

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACORE

USG BORAL DRYWALL SFZ LLC - Type ULTRACORE

USG MEXICO S A DE CV - Types IP-X3 or ULTRACORE

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. OC when installed vertically or 8 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACORE

USG BORAL DRYWALL SFZ LLC - Type ULTRACORE

USG MEXICO S A DE CV - Types IP-X3 or ULTRACORE

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type 5 steel screws spaced 8 in. OC, along vertical joints and 12 in. OC in the field. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

UNITED STATES GYPSUM CO - Types IP-X3 or ULTRACORE

USG BORAL DRYWALL SFZ LLC - Types C, SOX, SOX, USGX

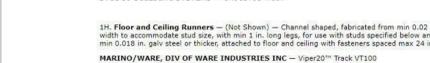
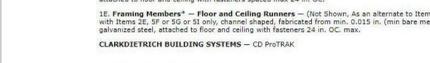
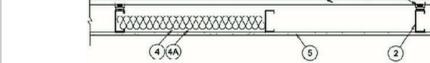
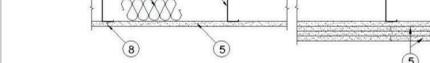
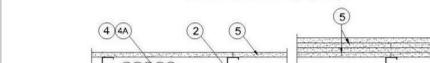
12. Lead Tabs - (Not Shown, For Use With Item 4B) - 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of the stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.5% meeting the Federal Specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

DNV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
DNV7 - Fire Resistance Ratings - CAN/ULC S101 Certified for Canada

Design No. U419
September 28, 2018

Nonbearing Wall Ratings - 1, 2, 3 or 4 in. (See Items 4 & 5 through 5K)
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



3M Framing Members - Floor and Ceiling Runners - (Not Shown - As an alternate to Item 1 - For use with Item 20, proprietary channel shaped runners, minimum width to accommodate stud size, g/v. steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

OEG BUILDING MATERIALS - OEG Stud

3M Framing Members - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1 - For use with Item 20, proprietary channel shaped runners, minimum width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. Steel Studs - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2. Steel Studs - (As an alternate to Item 2, For use with Items 8B, 8C, 9A and 9B) - Channel shaped, fabricated from min 20 MSG corrosion-protected galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2. Framing Members - Steel Studs - (As an alternate to Item 2, For use with Items 5C, 61 or 62) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™

CRACO MFC INC - SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™

FUSION BUILDING PRODUCTS - Viper25™

IMPERIAL MANUFACTURING GROUP INC - Viper25™

2. Framing Members - Steel Studs - (Not Shown - In lieu of Item 2 - Proprietary channel shaped stud, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™

FUSION BUILDING PRODUCTS - Viper25™

IMPERIAL MANUFACTURING GROUP INC - Viper25™

2D. Framing Members - Steel Studs - (In lieu of Item 2 - Channel shaped studs; min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.)

ALISTEEL & GYPSUM PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC - Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

2E. Framing Members - Steel Studs - (Not Shown, As an alternate to Item 2) - For use with Items 5F or 5G or 5K only; channel shaped studs; min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDITTRICH BUILDING SYSTEMS - CD ProSTUD

DMFCVBS L L C - ProSTUD

HBA METAL FRAMING - ProSTUD

RAM SALES L L C - Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProSTUD

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

18. Framing Members - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1 - For use with Item 20, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep, fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

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CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

18. Framing Members - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1 - For use with Item

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SCK

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SCK

50. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multi-layer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but joints in adjacent layers (multi-layer systems) staggered a min of 12 in. The thickness and number of layers for 1/2 in., 3/4 in. and 5/8 in. ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 5 columns: Rating, Hr, Min Stud Depth, in., No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4)

CGC INC — 1/2 in. thick Type C, IP-X2 or IPCAR, 5/8 in. thick Type AR, C, IP-X4, IP-X1, IP-X2, IP-X4E, SCX, SHX, or 3/4 in. thick Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPCAR or 5/8 in. thick Type SCX, SCK, SHX, IP-X1, AR, C, FRX-G, IPAR, IP-X1, IPCAR, ULID, 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. thick Type C, 5/8 in. Types C, SCK, SCK, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPCAR or 5/8 in. thick Type AR, C, IP-X4, IP-X1, IP-X2, IPCAR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

51. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC on perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with corrosion adhesive and no 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. thick. Compression fitted or adhered over steel studs. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-C-2017, Grade "C".

52. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

53. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC on perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with corrosion adhesive and no 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. thick. Compression fitted or adhered over steel studs. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-C-2017, Grade "C".

54. Gypsum Board* — (Not Shown) — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multi-layer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but joints in adjacent layers (multi-layer systems) staggered one stud cavity. The number of layers for 1/2 in., 3/4 in. and 5/8 in. ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 5 columns: Rating, Hr, Min Stud Depth, in., No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4B)

UNITED STATES GYPSUM CO — 5/8 in. thick Type ULX

6. Fasteners — (Not Shown) — For use with Items 2 and 2F. Type 5 or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels. Two layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 3/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from first layer. Fourth layer systems: First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 3/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from first layer.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, Furring Channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RESC-1 and RESC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RESC-1 and RESC-1 (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RESC-1 and RESC-1 (2.75) clips for use with 2-23/32 in. wide furring channels. RESC-1 (2.75) and RESC-1 (2.75) clips for use with 2-23/32 in. wide furring channels.

PAC INTERNATIONAL L L C — Types R51C-1, R51C-V, R51C-1 (2.75), R51C-V (2.75).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems. Furring channels and Steel Framing Members on only one side of studs as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2). Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

PLITEQ INC — Type GENIECLIP

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, Furring Channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, 3-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GREENFIBER secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

RAM SALES L L C — Ram ProTRAK

25. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2). Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

RAM SALES L L C — Ram ProTRAK

26. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2). Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam. washer through the center hole. Furring channels are friction fitted into clips.

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item 7Bb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam. washer through the center hole. Furring channels are friction fitted into clips.

REGIPOOL AMERICA — Type SonoClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:

a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and fastened to studs with 1-1/4 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with corrosion adhesive and no 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. thick. Compression fitted or adhered over steel studs. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-C-2017, Grade "C".

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints, outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall fasteners attached to each stud with one hole in each 12 in. OC in the field.

10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the perimeter between gypsum control.

UNITED STATES GYPSUM CO — Type AS

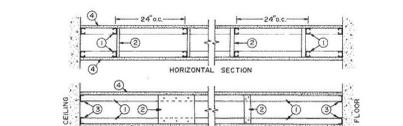
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Design No. UA20

July 09, 2018

Nonbearing Wall Rating = 1 or 2 HR.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Studs — Channel shaped, min 1 5/8 in. depth. Fabricated from No. 25 MSG galv steel. Studs to be cut 1/4 in. less than assembly height.

1A. Framing Members* — Steel Studs — As an alternate to Item 1. For use with Item 3A, channel shaped studs, min 1-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

HBCFWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-ProSTUD

1B. Framing Members* — Steel Studs — As an alternate to Item 1. For use with Item 3B, channel shaped studs, min 1-5/8 in. wide, fabricated from No. 25 MSG galv steel, spaced a max of 24 in. OC. Studs to be cut 3/8 in. less than assembly height.

KIRRI (HONG KONG) LTD — Type KIRRI

1C. Framing Members* — Steel Studs — As an alternate to Item 1. For use with Item 3, channel shaped studs, min 1-5/8 in. wide, fabricated from No. 25 MSG galv steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

EB METAL INC — NITROSTUD

1D. Framing Members* — Steel Studs — As an alternate to Item 1. For use with Item 3C, channel shaped, min 3-5/8 in. wide, spaced a max of 24 in. OC. Studs to be cut 3/8 in. less than assembly height.

BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

1E. Framing Members* — Steel Studs — As an alternate to Item 1. For a 2-hour rating only. For use with Item 3D, channel shaped studs, min 1-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2. Bracing — Cut from the steel studs, min. 4-1/4 in. long, fastened to the studs with two No. 8 by 1/2 in. long self-drilling, self-tapping steel screws in each. As an alternate, bolted to the stud cavity depth to maximum 9-1/2 in., cut from the gypsum wallboard, 9-1/2 in. long and 1 1/2 in. wide, fastened to the studs with three Type 6 wallboard screws in each stud. Vertical spacing of bracing not to exceed 48 in. OC.

3A. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3. For use with Item 1A, channel shaped, min 1-5/8 in. wide, attached to floor and ceiling with fasteners 24 in. OC, max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMPFCWS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

3. Floor and Ceiling Runners — Channel — shaped 5/8 in. wide with 1 in. legs, fabricated from No. 25 MSG galv steel. Attached to floor and ceiling with fasteners spaced 24 in. OC.

3A. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3. For use with Item 1A, channel shaped, min 1-5/8 in. wide, attached to floor and ceiling with fasteners 24 in. OC, max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMPFCWS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-ProTRAK

3B. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3. For use with Item 1B, channel shaped, min 1-5/8 in. wide, fabricated from No. 25 MSG, attached to floor and ceiling with fasteners 24 in. OC, max.

KIRRI (HONG KONG) LTD — Type KIRRI

3C. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3. For use with Item 1D, channel shaped, attached to floor and ceiling with fasteners 24 in. OC, max.

BAILEY METAL PRODUCTS LTD — Type PLATINUM PLUS

3D. Framing Members* — Floor and Ceiling Runners — (Not Shown) — As an alternate to Item 3 for a 2-hour rating only. For use with Item 1E, channel shaped, min 1-5/8 in. deep, attached to floor and ceiling with fasteners 24 in. OC, max.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

4. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick gypsum board with beveled, square, or tapered edges.

5. Fire 1 Hr Rating — One layer of gypsum board to be used. Applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type 5, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges, and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the corners.

5. Fire 2 Hr Rating — Two layers of gypsum board to be used. The inner layer to be applied in the same manner as the 1 Hr Rating. The outer layer to be fastened to the studs through the inner layer with 1 1/2 in. long, Type 5, wallboard screws spaced 8 in. OC at the joints, located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the corners. Joints to be staggered 24 in. from the inner layer.

ACADIA DRYWALL SUPPLIES LTD (View Classification) — CNRX.R25370

AMERICAN GYPSUM CO (View Classification) — CNXR.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CNXR.R19374

CERTAINTEED GYPSUM INC (View Classification) — CNXR.R3660

CGC INC (View Classification) — CNXR.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C (View Classification) — CNXR.R18482

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CNXR.R2717

LOADMASTER SYSTEMS INC (View Classification) — CNXR.R1809

NATIONAL GYPSUM CO (View Classification) — CNXR.R3501

NATIONAL GYPSUM CO (View Classification) — Riyadh, Saudi Arabia

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CNXR.R7094

PANEL REY S A (View Classification) — CNXR.R21796

SIAM GYPSUM INDUSTRY (SARABURJ) CO LTD (View Classification) — CNXR.R19262

SAINT-GOBAIN GYPROC MIDDLE EAST FZE (View Classification) — CNXR.R27321

THAI GYPSUM PRODUCTS PCL (View Classification) — CNXR.R27517

UNITED STATES GYPSUM CO (View Classification) — CNXR.R1319

USG BORAL DRYWALL SFZ LLC (View Classification) — CNXR.R34938

USG MEXICO S A DE C V (View Classification) — CNXR.R16089

4A. Gypsum Board* — (As an alternate to Item 4) — Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (2-hr system) staggered one stud cavity. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed with steel framing. Horizontal edge joints and horizontal but joints in adjacent layers (2-hr system) staggered one stud cavity. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but joints in adjacent layers (2-hr system) staggered one stud cavity. The number of layers for 1/2 in., 3/4 in. and 5/8 in. ratings are as follows:

CGC INC — Type AR, C, IP-AR, IP-X1, IP-X2, IPCAR, SCX, SHX, WRC or WRX.

UNITED STATES GYPSUM CO — Type AR, C, FRX-G, IPAR, IP-X1, IP-X2, IPCAR, SCX, SHX, WRC or WRX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX

USG MEXICO S A DE C V — Type AR, C, IP-AR, IP-X1, IP-X2, IPCAR, SCX, SHX, WRC or WRX.

CGC INC — Types AR, IP-AR.

4B. Gypsum Board* — (As an alternate to Item 4) — Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4A with screw length increased to 1-1/4 in.

CGC INC — Types AR, IP-AR.

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Types AR, IP-AR.

4C. Gypsum Board* — (As an alternate to Item 4 through 4B) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES.

4D. Gypsum Board* — As an alternate to Item 4 for 2 Hr Rating — Nom. 5/8 in. thick gypsum board with beveled, square or tapered edges. Two layers of gypsum board to be used. Inner layer applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type 5, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the corners. The outer layer to be fastened to the studs horizontally using 1 5/8 in. long, Type 5, gypsum board screws spaced 8 in. OC at the joints, located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the corners.

ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type X Bluglass Exterior Sheathing

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PGS-WRS.

4E. Gypsum Board* — (As an alternate to Item 4) — As an alternate to Item 4A and 3A) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 4A.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

4F. Gypsum Board* — (As an alternate to 5/8 in. Type PSW in Item 4) — Nom. 5/16 in. thick gypsum panels applied vertically. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in Item 4, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached with fasteners, as described in Item 4.

NATIONAL GYPSUM CO — Type PSW.

4G. Wall and Partition Facings and Accessories* — (As an alternate to Items 4 through 4E) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 4.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527.

4H. Gypsum Board* — (As an alternate to Item 4) — For use with Item 6D, Batts and Blankets* for the 1-hour system. Nom 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (2-hr system) staggered one stud cavity. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered or backed with steel framing. Horizontal edge joints and horizontal but joints in adjacent layers (2-hr system) staggered one stud cavity. Horizontal edge joints and horizontal but joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal but joints in adjacent layers (2-hr system) staggered one stud cavity. The number of layers for 1/2 in., 3/4 in. and 5/8 in. ratings are as follows:

UNITED STATES GYPSUM CO — Type ULX.

4I. Gypsum Board* — As an alternate to Item 4 (for 1-hour rating) — Nom. 5/8 in. thick gypsum panels applied vertically or horizontally. Horizontal

