		BUII	LDIN	NG C	ODE	REV	/IEW	r					
			I	APPLICA	BLE COD	DES					A.B.	ANCHOR BOLT	EQ. FQF
2015    INTERN      2013    NFPA I	ATIONAL EXIST ATIONAL ENERC ATIONAL MECH ATIONAL PLUM ATIONAL FUEL 3 - AUTOMATIO	ING BUILDING GY CONSERV IANICAL COD BING CODE GAS CODE C SPRINKLER	ATION COI E SYSTEMS	CODE	2015 2015 2014 2009	NFPA TC NFPA I - NFPA 7C ICC AI I AN STATE A	) - LIFE SAF - FIRE CODE ) - NATIONAL 7. I - ACCES ID FACILITIES ND LOCAL A	ELECTRIC SIBLE AND MENDMENT	CODE USEABLE B S	UILDING	A.C.T. A.F.F. A.H.U. AL. APY	ACOUSTIC CEILING TILE ABOVE FINISHED FLOOR AIR HANDLING UNIT ALUMINUM APPROVIMATE (1Y)	ETC. EX. EXT. F.A. F.D.
			GENERA	AL BUILI	DING DA	TA / ARE	Â				A.S.C.	ABOVE SUSPENDED CEILING	F.E.
BUILDING USE AND GROUP "CHAPTER 3	OCCUPANCY 3"		— S-1, S (SPEC)	STORAGE JLATIVE)	BUILDING No. OF S	G HEIGHT —			I 6'-0"± (EXI 55'-0" (ALLC I (EXISTING)	STING) DWED) )	BD. B.H. BLDG. BLKG	BOARD BULKHEAD BUILDING BLOCKING	F.F.I FIN
TYPE OF CONSTRU MIXED OCCUPANC	CTION "CHAPTI (	ER 6"	— IIIB — NO		AREA PEI	R STORY —			2 (ALLOWED 17,500 S.F	)) 7. (ALLOWED)	B.P. BSMT. C.I.	BEARING PLATE BASEMENT CONTINUOUS	FLR. F.O. F.R.
			— ALTER, LEVEL	ATION - 3	FLOOR A S-1 (SPE TOTAL BI	REA PER US ECULATIVE) -	DOR ARFA —		3.036 5.F. 6 072 5 F	(EXISTING) (EXISTING)	C.J. C.L.	INSULATION CONTROL JOINT CENTERLINE	F.S. FT.
SPRINKLER SYSTEM	1 <u></u>		- NO						_,	(=,	CLO. CLO. CLR. C.M.U.	CLOSET CLEAR CONCRETE MASONRY	GA. GAL G.C GL.
COVERED MALL — HIGH RISE BUILDIN	G		— NO — NO — NO								COL. COM.	UNIT COLUMN COMPOSITE	GLB G.R. G.S
	2		WH	ITF BOX	<b>ΔΑΤΑ</b> /	ARFA					COMP. CONC. CONT. C.U.	COMPRESSOR CONCRETE CONTINUE (D) (OUS) CONDENSING UNIT	G.W GYP H.B. H.C
USE AND OCCUPAN	NCY GROUP "CI	HAPTER 3" —			DITITI		S-I	, STORAGE	(SPECULATI	IVE)	C.W. D.F.	COLD WATER DRINKING FOUNTAIN	H/C H.D
WHITE BOX FLOOR	ARE <del>A</del> TA	ABLE 508.4	4 - REQU	JIRED SE	PARATI	ON OF OO	3,0 CCUPANC	36 S.F. C <b>IES</b>			DIA. / Ø DIR. DN. DR	DIAMETER DIRECT DOWN DOOR	HDR HDW H.M
OCCU	JPANCY TO	) BE SEPA	RATED		I	REQUIRE	D FIRE-R	ESISTAN	NCE RATI	ING	D.S. DTL. DWG.	DOWN SPOUT DETAIL DRAWING	H.R. HR. H.S
TABLE 60	N 1 - FIRE-RE	<sup>/A</sup> ESISTANC	E RATIN	NG REQU	 IREMEN	TS FOR E	BUILDING	B ELEME	NTS (HO	URS)	E EA. E.B.	EAST EACH EXPANSION BOLT	HT. H.W HW[
STRUCTURAL FRAM	1 <u>E</u> Olumns, gire	DERS, BEAMS	), TRUSSES	5						= 0	E.I.F.S. E.J. Fl	EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT FLEVATION	I.D.
BEARING WALLS EXTERIOR WA	LLS									= 0 = 0	ELEC. ELEC. ELEV. EMER.	ELECTRIC (AL) ELEVATOR EMERGENCY ELECTRIC PANEL	IND. INS. INT.
NON-BEARING WAL EXTERIOR WA	LS AND PARTIT	IONS								= 0 = 0			
FLOOR CONSTRUC	TION	S AND JOIST								= 0		W	'AI
ROOF CONSTRUCT	ION	S AND JOIST								— = 0		EXISTING WALL TO	C
TABLE	2 803.11 - IN	TERIOR W	VALL AN	ND CEILI GROUP	NG FINIS	SH REQU	IREMENT	TS BY OC	CCUPANC	S-1		EXISTING WALL	
VERTICAL EXITS AN EXIT ACCESS CORF	D EXIT PASSAC RIDORS AND O	GEWAYS	AYS							B B	_	NEW WALL	
ROOMS AND ENCL	OSED SPACE- TABLE 100	)4.1.2 - MA	XIMUM	I FLOOR	AREA AI	LLOWAN	ICES PER	OCCUPA	ANT	С		G" WALL w/ BRICK	VENEE
				OCCUPA	NT LOA	D							
(AS) ACCESSORY ————————————————————————————————————	STORAGE - 2,"	922 G.S.F. /	300 G.S.I	F. PER OCC	UPANT ———				= 100	DCCUPANTS			
	,	TABLE 102	20.1 - CC	ORRIDOR	FIRE-RE	ESISTAN	CE RATIN	G					
OCCUPANC	Y	OCCUPA B`	ANT LOA Y CORR	AD SERV IDOR	ED		REQUIRE RA	ED FIRE-I TING (H	RESISTAI OURS)	NCE			
(S-1) STORAGE	<u>-</u>		N/A					O HR.					
			GE	NERAL E GROUP	GRESS E	DATA				2- ا			
DEAD END CORRID	OR LIMIT									20'-0"			
EXIT ACCESS TRAV	EL DISTANCE ( IDED	TABLE 1017.	.2)							200'-0" 2			
	[		PLUM	BING FL	XTURE C		ŝ			SERVICE			777
	D RATIO	MALE	RATIO	FEMALE	RATIO	MALE	FEMALE	RATIO	AMOUNT	SINK			
SUBTOTALS	1 FEK 100	0.10	I FER 100	0.10	I PEK 100	0.10	0.10	I,000	-	SINK -			
REQUIRED TOTALS									-				[]].
NOTES:													
I. SEPARATE FACIL BOTH EMPLOYEI	ITIES SHALL NO ES AND CUSTO	OT BE REQUI MERS, OF 1	RED IN STI 5 OR LESS	RUCTURES ( ) PER SECTI	OR TENANT ON 2902.2	SPACES WI 2, EX.2 OF T	TH A TOTAL THE 2015 I.E	OCCUPANT 3.C.	LOAD, INCL	UDING			<u> </u>

# WHITE BOX PLANS FOR: 23 HUDSON STREET WHITE BOX B 23 HUDSON STREET - ANNAPOLIS, MD 21401

## ABBREVIATIONS

IG TILE	EQ. EQP. ETC.	EQUAL EQUIPMENT ET CETERA	JST JT. KIT
	EX.	EXISTING	L.
	EXT.	EXTERIOR	LAE
	F.A. F.D	FIRE ALARM	
r)	F.D.C.	FIRE DEPARTMENT	L.B
DED	FF(C)	CONNECTION	LBF
	T.L.(C.)	(CABINET)	LD. L.W
	F.F.E.	FINISH FLOOR	М.
	FIN.	FINISH	MA
	FLR.	FLOOR	ME
	F.O.	FRAMED OPENING	MF
	F.R.T.	FIRE RETARDANT	MIN
	FS	FLOOR SINK	
	FT.	FOOT OR FEET	M.C
	GA.	GAUGE	MT
	GAL.	GALVANIZED	Ν
	G.C.	GENERAL CONTRACTOR	N.I.
ONRY	GL.	GLASS or GLAZING	NO
	GLD. G.R	GLASS DLUCK	
	G.S.F	GROSS SQUARE FEET	N.T
	G.W.B.	GYPSUM WALL BOARD	0.0
	GYP.	GYPSUM	0.0
US)	H.B.	HOSE BIBB	O.H
IIT	H.C.	HOLLOW CORE	0.5
A INI	H/C		PEL
AIN	HDR	HEADER	PL
	HDW.	HARDWARE	PO
	H.M.	HOLLOW METAL	P.L
	HOR.	HORIZONTAL	
	H.R.	HANDRAIL	P.S
	HR.	HOUR	
	П.Э. нт	HEICHT	P.5
	н w/	HOT WATER	РТ
-	HWD.	HARDWOOD	PTN
TION	HVAC	HEATING, VENTILATION,	PW
ГЕМ		AND AIR CONDITIONING	QT
Т	I.D.	INSIDE DIAMETER	R.
	INCL.	INCLUDE (D), (ING)	KA[
	IND.	INDIRLUI INSULATE (D) (IONI)	RE: RF/
	INT.	INTERIOR	RFF
	J.C.	JANITOR'S CLOSET	REF

JOIST JOINT KITCHEN LENGTH LABORATORY LAMINATE LAVATORY LAG BOLT POUND FORCE POUND (S) LIGHT WEIGHT MINUTE (S) MATERIAL MAXIMUM MECHANICAL MANUFACTURE (ER) MINIMUM MIRROR (ED) MISCELLANEOUS MASONRY OPENING METAL NORTH NOT IN CONTRACT NUMBER NOMINAL NET SQUARE FEET NOT TO SCALE ON CENTER OUTSIDE DIAMETER OVERHANG OPEN SITE DRAIN PEDESTAL PANEL PLASTIC LAMINATE V.B. POLYETHYLENE POUNDS PER LINEAR FOOT POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED PARTITION PLYWOOD QUANTITY RISER RADIUS REFER TO RECEPTACLE REFERENCE REFRIGERATOR

. / #

REL. REQ. REV. R.D. R.O. SCH. S.C.W. SEC. S.F. SHT. SIM. SNT. SPEC. SQ. / S.S. S.S. S.S. S.T. S.T. S.T.C.	RELOCATE (D) REQUIRED REVISE (D), (ION) ROOF DRAIN ROOM ROUGH OPENING SOUTH SCHEDULE SOLID CORE WOOD SECTION SQUARE FEET SHEET SIMILAR SEALANT SPECIFICATION (S) SQUARE SERVICE SINK STAINLESS STEEL SOUND TRANSMISSION CLASS
STD. STL. STO. STR. TEL. T≢G THK. TR. T.S. TYP. U.H. U.N.O. V.B. V.C.T	STANDARD STEEL STORAGE STRUCTURAL TELEPHONE TONGUE & GROOVE THICK (NESS) TREAD TRANSITION STRIP TYPICAL UNIT HEATER UNLESS NOTED OTHERWISE VAPOR BARRIER
V.C.T. VERT. V.I.F. VNR. W W. W/ W.C. WD. W.H. W/O W.P. W.W.F.	VINYL COMPOSITION TILE VERTICAL VERIFY IN FIELD VENEER WEST WIDTH or WIDE WITH WATER CLOSET WOOD WATER HEATER WITHOUT WATERPROOF (ING) WELDED WIRE FABRIC
Ę	CENTERLINE

## WALL / PARTITION PLAN VIEWS:

REFR.

POURED CONCRETE WALL

-D------D-

C.M.U. BLOCK WALL  $\times \times \times \times >$ 

GLASS PARTITION WALL OR STORE FRONT

REQUIRED FIRE RESISTANT RATING LEGEND: ------ 1/2 HR. SEPARATION - 2 HR. SEPARATION - 3 HR. SEPARATION





GE	NERAL NOTES:	LIFE SAFETY	/ NOTES (CONT.):
Ι.	DO NOT SCALE DRAWINGS FOR ANY PURPOSE. CONTACT ARCHITECT IF ADDITIONAL DIMENSIONS ARE REQUIRED.	18. ALL INTER SECTION	NOR WALL & CEILING FINISHES SHA 10.2.3.4, NFPA 101 - 2015.
2.	ALL EXISTING STRUCTURE / CONDITIONS (AND RELATED DIMENSIONS AND NOTES) SHALL BE VERIFIED IN FIELD BEFORE CONSTRUCTION BEGINS.	19. INTERIOR ALL OTHE	FLOOR FINISH IN EXIT ENCLOSURE R SPACES SHALL NOT BE LESS TH
3.	ALL EXISTING COMPONENTS SHALL REMAIN "AS IS", UNLESS NOTED OTHERWISE; I.E., CEILING FINISH / HEIGHT, WALL / FLOOR FINISH, ETC.	20. TYPE ABC WITH NFF	NFPA TOT - 2015. C PORTABLE FIRE EXTINGUISHERS S A TO, STANDARD FOR PORTABLE
4.	ALL CONSTRUCTION SHALL BE DONE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, N.F.P.A., O.S.H.A. AND ANY LOCAL GOVERNING CODES AND ORDINANCES.		
0.	CODE AND ANY LOCAL GOVERNING CODES AND ORDINANCES.	SYM.	DESCRIPTION
6. 7.	ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY LOCAL GOVERNING CODES AND ORDINANCES. ALL MECHANICAL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL	FACP	FIRE ALARM CONTROL PANEL
8.	THE CONTRACTOR SHALL ENSURE THAT ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE AND ANY LOCAL GOVERNING CODES AND ORDINANCES.	ÂV	FIRE ALARM (AUDIO / VISUAL) DEVICE
9.	THE CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLETED UNDER THE TERMS AND CONDITIONS OF THIS CONTRACT FULLY COMPLY WITH THE MINIMUM SPECIFICATIONS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT GUIDELINES (A.D.A.A.G.) FOR BUILDINGS AND FACILITIES, AND THE MARYLAND ACCESSIBILITY CODE. COMAR 05 02 02 LATEST EDITION	$\bigtriangledown$	FIRE ALARM STROBE (VISUAL)
10.	ALL PIPE AND DUCT PENETRATIONS THROUGH RATED FLOORS AND WALLS SHALL BE SEALED WITH MATERIAL OF THE SAME RATING.	F	MANUAL PULL STATION
.	ANY DISCREPANCIES OR ERRORS IN THE CONTRACT DOCUMENTS MUST BE REPORTED TO THE ARCHITECT AND NO CHANGES ARE TO BE MADE WITHOUT THE CONSENT OF THE ARCHITECT.	FE	FIRE EXTINGUISHER
12.	OBSERVATION VISITS TO THE JOB SITE BY FIELD REPRESENTATIVES OF J.MAYER ARCHITECTS SHALL NEITHER	FEC	FIRE EXTINGUISHER CABINET
14.	THE GENERAL CONTRACTOR WILL GUARANTEE ALL WORK DONE UNDER THIS CONTRACT FOR A MINIMUM		FIRE DEPARTMENT
15.	THE GENERAL CONTRACTOR WILL COORDINATE FINISH FLOOR ELEVATIONS AND GRADE ELEVATIONS WITH THE CIVIL DRAWINGS BY OTHERS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE THE COMMENCEMENT OF WORK.		CONNECTION
16.	A.D.A. SIGNAGE SHALL BE INSTALLED AS REQUIRED BY ICC AI 17-2009 SECTION 703, LATEST EDITION.		
17.	PER SECTION 107.3.4, 2015 IBC; A FULL TIME PROJECT ARCHITECT OR ENGINEER, LICENSED IN MARYLAND, SHALL BE EMPLOYED TO DETERMINE THAT WORK IS PROCEEDING IN ACCORDANCE WITH APPROVED PLANS. THE ARCHITECT OR ENGINEER SHALL BE RESPONSIBLE FOR THE REVIEW OF SHOP DRAWINGS, REVIEW AND APPROVAL OF THE CONTRACTOR'S QUALITY CONTROL PROCEDURES AND PROFESSIONAL INSPECTION OF CRITICAL CONSTRUCTION COMPONENTS. QUARTERLY PROGRESS REPORTS SHALL BE SEALED AND SUBMITTED ON THE ARCHITECT'S OR ENGINEER'S LETTERHEAD DURING THE CONSTRUCTION PERIOD. FOR ADDITIONAL DETAILS AND EXPLANATION, SEE DEPARTMENT OF PLANNING AND CODE ENFORCEMENT DIRECTIVE ENTITLED		
LIFE	SAFETY NOTES:		
١.	MEANS OF EGRESS SHALL BE CONTINUOUSLY MAINTAINED FREE OF ALL OBSTRUCTIONS OR IMPEDIMENTS TO FULL INSTANT USE IN THE CASE OF FIRE OR OTHER EMERGENCY. NO FURNISHINGS, DECORATIONS, OR OTHER OBJECTS SHALL OBSTRUCT EXITS OR THEIR ACCESS THERETO, EGRESS THEREFROM, OR VISIBILITY THEREOF. MIRRORS SHALL NOT BE PLACED ON EXIT DOOR LEAVES. MIRRORS SHALL NOT BE PLACED IN OR ADJACENT TO ANY EXIT IN SUCH A MANNER AS TO CONFUSE THE DIRECTION OF EGRESS.		
2.	EGRESS DOOR(S) SHALL BE AT LEAST 32" IN CLEAR WIDTH, PER SECTION 7.2.1.2.3.2, NFPA 101 - 2015.		
3.	THE ELEVATION OF THE FLOOR SURFACES ON BOTH SIDES OF A DOOR SHALL NOT VARY BY MORE THAN 1/2". THE ELEVATION SHALL BE MAINTAINED ON BOTH SIDES OF THE DOORWAY FOR A DISTANCE NOT LESS THAN THE WIDTH OF THE WIDEST LEAF. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" IN HEIGHT. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES IN EXCESS OF 1/4" SHALL BE BEVELED WITH A SLOPE OF NOT STEEPER THAN 1 IN 2. PER SECTION 7.2.1.3, NFPA 101 - 2015.		
4.	DOORS SHALL BE ARRANGED TO BE OPENED READILY FROM THE EGRESS SIDE WHENEVER THE BUILDING IS OCCUPIED. LOCKS, IF PROVIDED, SHALL NOT REQUIRE THE USE OF A KEY, A TOOL, OR SPECIAL KNOWLEDGE OR EFFORT FOR OPERATION FROM THE EGRESS SIDE. PER SECTION 7.2.1.5, NFPA 101 - 2015.		
5.	EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM THE INSIDE OF THE CLOSET.		
6.	EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN A EMERGENCY. THE OPENING DEVICE SHALL BE READILY ACCESSIBLE TO ANYONE OUTSIDE THE DOOR.		
7.	A LATCH OR OTHER FASTENING DEVICE ON A DOOR LEAF SHALL BE PROVIDED WITH A RELEASING DEVICE HAVING AN OBVIOUS METHOD OF OPERATION AND THAT IS READILY OPERATED UNDER ALL LIGHTING CONDITIONS. THE RELEASING MECHANISM FOR ANY LATCH SHALL BE NOT LESS THAN 34", AND NOT MORE THAN 48" ABOVE FINISH FLOOR. DOORS SHALL BE OPERABLE WITH NOT MORE THAN ONE RELEASING OPERATION PER SECTION 7.2.1.5.10(1)(2), NFPA 101 - 2015.		
8.	APPROVED EMERGENCY LIGHTING WITH BATTERY BACKUP SHALL PROVIDE A CONTINUOUS ILLUMINATED PATH ALONG ALL REQUIRED MEANS OF EGRESS NOT LIMITED TO DESIGNATED STAIRS, AISLES, CORRIDORS, RAMPS, ESCALATORS, WALKWAYS, AND EXIT PASSAGEWAYS LEADING TO A PUBLIC WAY		
9.	APPROVED ILLUMINATED EXIT SIGNS WITH BATTERY BACKUP SHALL BE PROVIDED THROUGHOUT THE BUILDING THAT IS READILY VISIBLE FROM ANY DIRECTION OF EXIT ACCESS AND ANY LOCATION WHERE THE DIRECTION OF TRAVEL TO REACH THE NEAREST EXIT IS NOT APPARENT TO THE OCCUPANTS.		
10.	EMERGENCY LIGHTING & SIGNS SHALL BE WIRED INTO THE NORMAL LIGHTING CIRCUIT AND ARRANGED AS TO PROVIDE THE REQUIRED ILLUMINATION AUTOMATICALLY IN THE EVENT OF ANY INTERRUPTION OF NORMAL LIGHTING SUCH AS ANY FAILURE OF A PUBLIC UTILITY OR OTHER OUTSIDE ELECTRICAL POWER SUPPLY, OPENING OF A CIRCUIT BREAKER OR FUSE, OR ANY MANUAL ACT(S) INCLUDING ACCIDENTAL OPENING OF SWITCH CONTROLLING NORMAL LIGHTING FACULTIES, AS PER SECTIONS 7.8 & 7.9 MERAL 101 - 2015		
11.	PENETRATIONS AND JOINTS OF ANY FIRE/SMOKE RATED WALL, BARRIER, PARTITION OR HORIZONTAL ASSEMBLY SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING FIRE/ SMOKE RESISTANCE OR PROTECTED BY APPROVED DEVICE FOR SUCH PURPOSES, PER SECTIONS 8.3.5 \$ 8.3.6, NFPA 101 - 2015.		
12.	EVERY EXTERIOR AND INTERIOR WALL AND PARTITION SHALL BE FIRE STOPPED AT EACH FLOOR LEVEL, AT THE TOP STORY CEILING LEVEL, AND AT THE LEVEL OF SUPPORT FOR ROOFS, AS PER SECTION 8.6.11, NFPA 101 - 2015.		L'EMER.
13.	EQUIPMENT UTILIZING GAS AND RELATED PIPING SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 54, NATIONAL FUEL GAS CODE OR NFPA 58, LIQUEFIED PETROLEUM GAS CODE, UNLESS EXISTING INSTALLATIONS, WHICH SHALL BE PERMITTED TO BE CONTINUED IN SERVICE, SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION, AS PER SECTION 9.1.1, NFPA 101 - 2015.	F	DOOR (0.2)
4.	AIR CONDITIONING, HEATING, VENTILATION, AND DUCTWORK SHALL BE IN ACCORDANCE WITH NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, OR NFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS, AS APPLICABLE, UNLESS EXISTING INSTALLATIONS, WHICH SHALL BE PERMITTED TO BE CONTINUED IN SERVICE, SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION, AS PER SECTION 9.2.1, NFPA 101-2015.	L	
15.	VENTILATING OR HEAT-PRODUCING EQUIPMENT SHALL BE IN ACCORDANCE WITH NFPA 91, STANDARDS FOR EXHAUST SYSTEMS FOR AIR CONVEYING OF VAPORS, GASES, MISTS, AND NONCOMBUSTIBLE PARTICULATE SOLIDS; NFPA 211, STANDARD FOR CHIMNEYS, FIREPLACES. VENTS, AND SOLID FUEL BURNING APPLIANCES; NFPA 31, STANDARD FOR THE INSTALLATION OF OIL-BURNING EQUIPMENT; NFPA 54, NATIONAL FUEL GAS CODE; OR NFPA 70, NATIONAL ELECTRIC CODE. AS APPLICABLE, UNLESS EXISTING INSTALLATIONS, WHICH SHALL BE PERMITTED TO BE CONTINUED IN SERVICE, SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION. PER SECTION 9.2.2, NFPA 101 - 2015.		
16.	AT A LOCATION APPROVED BY THE AUTHORITY HAVING JURISDICTION, EACH AIR DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH AT LEAST ONE MANUALLY OPERABLE MEANS FOR STOPPING THE OPERATION OF THE SUPPLY, RETURN, AND EXHAUST FAN(S) IN AN EMERGENCY PER SECTION 6.2, NFPA 90A - 2015. METHOD OF SHUTDOWN SHALL BE SIMPLE AND CLEARLY IDENTIFIED.		$\swarrow$ (F2)
17.	FINISHES DESIGNATED CLASS "A" SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 OR LESS. FINISHES DESIGNATED CLASS "B" SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 75 OR LESS. FINISHES DESIGNATED CLASS "A" SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 200 OR LESS. (SEE COVER SHEET FOR CLASS DESIGNATIONS)		

MEANS OF EGRESS LEGEND					
SYM.	DESCRIPTION				
••	COMMON PATH OF TRAVEL				
o	EXIT ACCESS TRAVEL DISTANCE				
o	SECOND MEANS OF EGRESS				
	PATH OF EGRESS				
	SYM.    •   <				

### EMERGENCY LIGHTING LEGEND DESCRIPTION SYM. SURFACE MOUNTED LIGHT -\$-EMER. FIXTURE (WIRED INTO EMERGENCY CIRCUIT) WALL MOUNTED $\bigotimes$ ILLUMINATED EXIT SIGN (SINGLE SIDE VIEW) WALL MOUNTED EMERGENCY LIGHT FIXTURE WALL MOUNTED EMERGENCY

				, _ <del> </del>	
			1		₩₩
			C ADJACENT WHITE BOX.		
			FILED UNDER		
			SEPARATE PERMIT		
			<i>¥</i>		
		•		•	
				_	
					<b></b> • <b></b>
<u></u>	XIT ACCESS TRAVEL DISTANCE	<u></u>			
	(30-3)			WIG U419	
	U' Y' I WHITFBOX "B"				
	3,036 S.F.				





## GYPSUM WALL BOARD NOTES:

GYPSUM WALL BOARD APPLICATIONS SHALL CONFORM WITH ASTM C 1396 AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

- ALL WALLS SHALL RECIEVE | LAYER OF 1/2" GYPSUM WALL BOARD EACH SIDE, UNLESS NOTED OTHERWISE
- ALL JOINTS AND INSIDE CORNERS TO RECEIVE TAPE, PROVIDE CORNER BEAD AT GYPSUM WALL BOARD EDGES 3. AND CORNER CONDITIONS. PROVIDE 3 COATS MINIMUM OF JOINT COMPOUND FINISH SMOOTH AND READY FOR PAINT.
- 4. WOOD SUPPORTS FOR LATH OR GYPSUM BOARD, AS WELL AS WOOD STRIPPING OR FURRING, SHALL NOT BE LESS THAN 2 INCHES NOMINAL THICKNESS IN THE LEAST DIMENSION. EXCEPT WHERE WOOD FURRING STRIPS INSTALLED OVER SOLID BACKING SHALL NOT BE LESS THAN I INCH BY 2 INCHES.
- 1/2" (U.N.O.) WATER RESISTANT GYPSUM WALL BOARD SHALL BE INSTALLED IN LAVATORIES AND ADJACENT TO PLUMBING FIXTURES. WATER RESISTANT GYPSUM WALL BOARD SHALL NOT BE INSTALLED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS OR WHERE THERE WILL BE DIRECT EXPOSURE TO WATER. OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY
- 6. I/2" (U.N.O.) CEMENT BACKER BOARD IN COMPLIANCE WITH ASTM C 1325 SHALL BE INSTALLED AS A BASE FOR FLOOR, WALL, AND CEILING TILE PER MANUFACTURER'S SPECIFICATIONS. SECTION 2509.2 IBC 2015. PROVIDE STUDS AT 16" O.C. AT ALL WALLS SCHEDULED TO RECEIVE CEMENT BACKER BOARD.

	C.F.S. STUD GAUGE AND					
C.F.5	D. "C-SHAPE	D" STUDS				
TAG	STUD SIZE	STUD GAUGE	STUD SPACING	LIMITING HEIGHT (L/240, 5 P.S.F.)		
		25 GA.	16" O.C.	0'-   "		
		25 GA.	24" O.C.	8'-9"		
	1 5/6	20 GA.	16" O.C.	0'-9"		
		20 GA.	24" O.C.	9'-4"		
		25 GA.	16" O.C.	2'-   0"		
		25 GA.	24" O.C.	'-3"		
	2 1/2	20 GA.	16" O.C.	4'-5"		
		20 GA.	24" O.C.	2'-7"		
		25 GA.	16" O.C.	4'-   0"		
	2 4 2	25 GA.	24" O.C.	2'-  "		
	3 1/2"	20 GA.	16" O.C.	16'-3"		
		20 GA.	24" O.C.	4'-2"		
	3 5/8"	25 GA.	16" O.C.	15'-2"		
		25 GA.	24" O.C.	3'-2"		
		20 GA.	16" O.C.	6'-7"		
		20 GA.	24" O.C.	4'-6"		
	4"	25 GA.	16" O.C.	5'-  "		
		25 GA.	24" O.C.	3'-8"		
		20 GA.	16" O.C.	7'-8"		
		20 GA.	24" O.C.	5'-5"		
		25 GA.	16" O.C.	20'-1"		
		25 GA.	24" O.C.	16'-4"		
	6	20 GA.	16" O.C.	24'-7"		
		20 GA.	24" O.C.	21'-6"		
C.F.S	. SHAFTWA	ALL STUDS		_		
TAG	STUD SIZE	STUD GAUGE	STUD SPACING	LIMITING HEIGHT (L/240, 5 P.S.F.)		
$\langle 2 \rangle$	2 1/2"	25 GA.	24" O.C.	0'-7"		
$\bigvee$		20 GA.	24" O.C.	2'-3"		
	<b>1</b> "	25 GA.	24" O.C.	4'-5"		
	4	20 GA.	24" O.C.	7'-6"		
56	6"	20 GA.	24" O.C.	21'-9"		



LIGHT-GAUGE (C.F.S) FRAMING NOTES

- I. C.F.S. STUD GAUGE AND SPACING SCHEDULE IS BASED ON LIMITING HEIGHTS, SEE SCHEDULE.
- 2. ALL PRODUCTS SHALL BE MANUFACTURED BY THE CURRENT MEMBERS OF THE STEEL STUD MANUFACTURES ASSOCIATION. ALL GALVANIZED STUDS AND JOISTS SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF A.I.S.I. STANDARDS, CURRENT EDITION. DESIGN, FABRICATION AND ERECTION OF ALL C.F.S. MEMBERS SHALL CONFORM TO THE AMERICAN IRON AND STEEL INSTITUTE: "COLD-FORMED STEEL DESIGN MANUAL".
- 3. LIGHT-GAUGE STEEL FABRICATOR SHALL PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
- 4. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED.
- 5. LIGHT-GAUGE STUD AND JOIST FRAMING SHOWN ON ARCHITECTURAL PLANS ARE TO BE USED AS A GUIDELINE BY THE LIGHT-GAUGE STEEL FABRICATOR. PRIOR TO FABRICATION OF FRAMING, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CERTIFIED DESIGN COMPUTATIONS FOR REVIEW. DESIGN COMPUTATIONS SHALL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SHALL MEET ALL THE REQUIREMENTS OF THE CODE. C.F.S. SIZE, AND GAUGE AS DETERMINED BY THE LIGHT-GAUGE FABRICATOR SHALL TAKE PRECEDENCE OVER THE DRAWINGS.
- 6. DESIGN OF LIGHT-GAUGE MEMBERS AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURES NOT INDICATED ON THE CONTRACT DRAWINGS SHALL BE COMPLETED BY THE FABRICATOR AND INDICATED ON THE SHOP DRAWINGS.
- 7. PROVIDE (2) 20 GAUGE MIN. STUDS AT ALL DOOR JAMBS EACH SIDE.
- 8. PROVIDE 20 GAUGE MIN. STUDS AT ALL WALLS SCHEDULED TO RECEIVE CEMENT BACKER BOARD.
- 9. PROVIDE 20 GAUGE MIN. STUDS @ HANDRAIL, GRAB BARS, AND CASEWORK / EQUIPMENT ANCHORS.



### U.L. ASSEMBLY SCHEDULE

1N. FRAMING MEMBERS\* -FLOOR AND CEILING RUNNERS - NOT SHOWN - AS AN ALTERNATE TO ITEM 1 - FOR USE WITH ITEM 2P. PROPRIETARY CHANNEL SHAPED RUNNERS, MIN WIDTH TO ACCOMMODATE STUD SIZE, GALV STEEL, ATTACHED TO FLOOR

10. FRAMING MEMBERS\* -FLOOR AND CEILING RUNNER -NOT SHOWN -IN LIEU OF ITEM 1 -FOR USE WITH ITEM 2Q, PROPRIETARY CHANNEL SHAPED RUNNERS, MIN 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

2A. STEEL STUDS - (AS AN ALTERNATE TO ITEM 2, FOR USE WITH ITEMS 5B, 5E, 5H, 5J AND 5K) - CHANNEL SHAPED, FABRICATED FROM MIN 20 MSG CORROSION-PROTECTED OR GALV STEEL, 3-1/2 IN. MIN DEPTH, SPACED A MAX OF 16 IN. OC. STUDS FRICTION-FIT INTO FLOOR AND CEILING RUNNERS. STUDS TO BE CUT 5/8 TO 3/4 IN. LESS THAN ASSEMBLY

2B. FRAMING MEMBERS\* – STEEL STUDS — (AS AN ALTERNATE TO ITEM 2, FOR USE WITH ITEMS 5C, 5I OR 5K) — 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

2C. FRAMING MEMBERS\* - STEEL STUDS - NOT SHOWN - IN LIEU OF ITEM 2 - PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX IF 24 IN. OC, FABRICATED FROM MIN 0.018 IN. THICK GALV

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.

> 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

2E. FRAMING MEMBERS\* - STEEL STUDS - (NOT SHOWN, AS AN ALTERNATE TO ITEM 2) - FOR USE WITH ITEMS 5F OR 5G OR 51 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.

2F. FRAMING MEMBERS\* - STEEL STUDS - NOT SHOWN - IN LIEU OF ITEM 2 - PROPRIETARY CHANNEL SHAPED STEEL STUDS, MINIMUM WIDTH INDICATED UNDER ITEM 5, 1–1/4 IN. DEEP FABRICATED FROM MIN 0.015 IN. (MIN BARE METAL THICKNESS)

MINIMUM WIDTH INDICATED UNDER ITEM 5, STUDS TO BE CUT 3/8 TO 3/4 IN LESS THAN THE ASSEMBLY HEIGHT.

2H. FRAMING MEMBERS\* — STEEL STUDS — (NOT SHOWN, AS AN ALTERNATE TO ITEM 2) — 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

-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

2J. FRAMING MEMBERS\* - METAL STUDS - NOT SHOWN - IN LIEU OF ITEM 2 - PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX IF 24 IN. OC, FABRICATED FROM MIN 0.018 IN. THICK GALV

2K. FRAMING MEMBERS\* - STEEL STUDS - AS AN ALTERNATE TO ITEM 2 - FOR USE WITH ITEM 1, CHANNEL SHAPED STUDS, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX

2L. FRAMING MEMBERS\* - STEEL STUDS - AS AN ALTERNATE TO ITEM 2 - FOR USE WITH ITEM 1, CHANNEL SHAPED STUDS, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX

2M. FRAMING MEMBERS\* - STEEL STUDS - AS AN ALTERNATE TO ITEM 2 - FOR USE WITH ITEM 1, CHANNEL SHAPED STUDS, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX

DEPTH 3-1/2 IN. AND AS INDICATED UNDER ITEM 5, SPACED A MAX OF 24 IN. OC, FABRICATED FROM MIN 0.018 IN. THICK

20. FRAMING MEMBERS\* - STEEL STUDS - AS AN ALTERNATE TO ITEM 2 - PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN WIDTH AS INDICATED UNDER ITEM 5, GALV STEEL. STUDS TO BE CUT 3/8 TO 3/4 IN. LESS IN LENGTHS THAN ASSEMBLY

2P. FRAMING MEMBERS\* - STEEL STUDS - AS AN ALTERNATE TO ITEM 2 - PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN WIDTH AS INDICATED UNDER ITEM 5, MIN 25 MSG GALV STEEL. STUDS TO BE CUT 3/8 TO 3/4 IN. LESS IN LENGTHS THAN

2Q. FRAMING MEMBERS\* - STEEL STUDS - NOT SHOWN - IN LIEU OF ITEM 2 - FOR USE WITH ITEM 10, PROPRIETARY CHANNEL SHAPED STEEL STUDS, MIN DEPTH AS INDICATED UNDER ITEM 5, SPACED A MAX OF 24 IN. OC, FABRICATED FROM MIN 25 MSG (0.018 IN. MIN. BARE METAL THICKNESS). STUDS CUT 3/8 IN. TO 3/4 IN. LESS IN LENGTHS THAN ASSEMBLY HEIGHTS. 3. WOOD STRUCTURAL PANEL SHEATHING — (OPTIONAL, FOR USE WITH ITEM 5 ONLY) — (NOT SHOWN) — 4 FT WIDE, 7/16 IN. THICK ORIENTED STRAND BOARD (OSB) OR 15/32 IN. THICK STRUCTURAL 1 SHEATHING (PLYWOOD) COMPLYING WITH DOC PS1 OR PS2, OR APA STANDARD PRP-108, MANUFACTURED WITH EXTERIOR GLUE, APPLIED HORIZONTALLY OR VERTICALLY TO THE STEEL STUDS. VERTICAL JOINTS CENTERED ON STUDS, AND STAGGERED ONE STUD SPACE FROM WALLBOARD JOINTS. ATTACHED TO STUDS WITH FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MIN. HEAD DIAM. OF 0.292 IN. AT MAXIMUM 6 IN. OC. IN THE PERIMETER AND 12 IN. OC. IN THE FIELD. WHEN USED, GYPSUM PANELS ATTACHED OVER OSB OR PLYWOOD PANELS AND FASTENER LENGTHS FOR GYPSUM PANELS INCREASED BY MIN. 1/2 IN.

4. BATTS AND BLANKETS\* - (REQUIRED AS INDICATED UNDER ITEM 5) - MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS. MIN NOM THICKNESS AS INDICATED UNDER ITEM 5.

SEE BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

- 4A. BATTS AND BLANKETS\* (OPTIONAL) PLACED IN STUD CAVITIES, ANY GLASS FIBER OR MINERAL WOOL INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE.
  - SEE BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.
- 4B. BATTS AND BLANKETS\* FOR USE WITH ITEM 5K. PLACED IN STUD CAVITIES, ANY MIN. 3-1/2 IN. THICK GLASS FIBER INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE.
  - SEE BATTS AND BLANKETS (BKNV OR BZJZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.
- 4C. FIBER, SPRAYED\* (OPTIONAL) AND AS AN ALTERNATE TO BATTS AND BLANKETS (ITEM 4B) WHERE INSULATION IS REQUIRED - SPRAY APPLIED GRANULATED MINERAL FIBER MATERIAL. THE FIBER IS APPLIED WITH ADHESIVE AT A MINIMUM DENSITY OF 4.0 PCF TO COMPLETELY FILL THE WALL CAVITY IN ACCORDANCE WITH THE APPLICATION INSTRUCTIONS SUPPLIED WITH THE PRODUCT. SEE FIBER, SPRAYED (CCAZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC - TYPE ROCKWOOL PREMIUM PLUS

GYPSUM BOARD\* - 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 (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN OF 12 IN. THE THICKNESS AND NUMBER OF LAYERS FOR THE 1 HR, 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS:

GYPSUM BOARD PROTECTION ON EACH SIDE OF WALL

RATING HR.	MIN. STUD DEPTH, IN. (ITEMS 2, 2C, 2D, 2F, & 2G)	No. OF LAYERS & THICKNESS OF PANEL	MIN. THICKNESS OF INSULATION (ITEM 4)
1	3-1/2 IN.	1 LAYER, 5/8 IN. THICK	OPTIONAL
1	2-1/2 IN.	1 LAYER, 1/2 IN. THICK	1-1/2 IN.
1	1-5/8 IN.	1 LAYER, 3/4 IN. THICK	OPTIONAL
2	1-5/8 IN.	2 LAYER, 1/2 IN. THICK	OPTIONAL
2	1-5/8 IN.	2 LAYER, 5/8 IN. THICK	OPTIONAL
2	3-1/2 IN.	1 LAYER, 3/4 IN. THICK	3 IN.
3	1-5/8 IN.	3 LAYER, 1/2 IN. THICK	OPTIONAL
3	1-5/8 IN.	2 LAYER, 3/4 IN. THICK	OPTIONAL
3	1-5/8 IN.	3 LAYER, 5/8 IN. THICK	OPTIONAL
4	1-5/8 IN.	4 LAYER, 5/8 IN. THICK	OPTIONAL
4	1-5/8 IN.	4 LAYER, 1/2 IN. THICK	OPTIONAL
4	2-1/2 IN	2 LAYER 3/4 IN THICK	2 IN

CGC INC -1/2 IN. THICK TYPE C, IP-X2 OR IPC-AR; WRC, 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX OR WRC; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

UNITED STATES GYPSUM CO -1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR WRC; 5/8 IN. THICK TYPE SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

USG BORAL DRYWALL SFZ LLC -1/2 IN. TYPE C; 5/8 IN. TYPES C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V -1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR WRC; 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC OR; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

WHEN ITEM 7B, STEEL FRAMING MEMBERS\*, IS USED, NONBEARING WALL RATING IS LIMITED TO 1 HR. MIN. STUD DEPTH IS 3-1/2 IN., MIN. THICKNESS OF INSULATION (ITEM 4) IS 3 IN., AND TWO LAYERS OF GYPSUM BOARD PANELS (1/2 IN. OR 5/8 IN. THICK) SHALL BE ATTACHED TO FURRING CHANNELS AS DESCRIBED IN ITEM 6. ONE LAYER OF GYPSUM BOARD PANELS (1/2 IN. OR 5/8 IN. THICK) ATTACHED TO OPPOSITE SIDE OF STUD WITHOUT FURRING CHANNELS AS DESCRIBED IN ITEM 6.

5A. GYPSUM BOARD\* - (AS AN ALTERNATE TO ITEM 5) - 5/8 IN. THICK, 24 TO 54 IN. WIDE, APPLIED HORIZONTALLY AS THE OUTER LAYER TO ONE SIDE OF THE ASSEMBLY. SECURED AS DESCRIBED IN ITEM 6.

> CGC INC — TYPE SHX. UNITED STATES GYPSUM CO - TYPE FRX-G, SHX. USG MEXICO S A DE C V - TYPE SHX.

5B. 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 IN 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. OR 3/4 IN. MAY BE USED AS ALTERNATE TO ALL 5/8 IN. OR 3/4 IN. SHOWN IN ITEM 5, WALLBOARD PROTECTION ON EACH SIDE OF WALL TABLE. NOM 5/8 IN. OR 3/4 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY, VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. GYPSUM BOARD SECURED TO 20 MSG STEEL STUDS ITEM 2A WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD. TO BE USED WITH LEAD BATTEN STRIPS (SEE ITEM 11) OR LEAD DISCS OR TABS (SEE ITEM 12).

RAY-BAR ENGINEERING CORP — TYPE RB-LBG

5C. GYPSUM BOARD\* - (FOR USE WITH ITEM 2B) - RATING LIMITED TO 1 HOUR. 5/8 IN. THICK, 48 IN. WIDE, GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. (VERTICAL APPLICATION) - THE GYPSUM BOARD IS TO BE INSTALLED ON EACH SIDE OF THE STUDS WITH 1 IN. LONG TYPE S COATED STEEL SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE EDGE OF THE BOARD AT THE VERTICAL EDGES AND 12 IN. OC STARTING 6 IN. FROM THE EDGE OF THE BOARD AT THE CENTER OF EACH BOARD. GYPSUM BOARDS ARE TO BE SECURED TO THE TOP AND BOTTOM TRACK WITH SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE BOARD EDGE. FASTENERS SHALL NOT PENETRATE THROUGH BOTH THE STUD AND THE TRACK AT THE SAME TIME. VERTICAL JOINTS ARE TO BE CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. (HORIZONTAL APPLICATION) – THE GYPSUM BOARD IS TO BE INSTALLED ON EACH SIDE OF THE STUDS WITH 1 IN. LONG TYPE S COATED STEEL SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE EDGE OF THE BOARD AT THE VERTICAL EDGES AND 12 IN. OC STARTING 6 IN. FROM THE EDGE OF THE BOARD AT THE CENTER OF EACH BOARD. GYPSUM BOARDS ARE TO BE SECURED TO THE TOP AND BOTTOM TRACK WITH SCREWS SPACED 8 IN. OC STARTING 4 IN. FROM THE BOARD EDGE. FASTENERS SHALL NOT PENETRATE THROUGH BOTH THE STUD AND THE TRACK AT THE SAME TIME. ALL HORIZONTAL JOINTS ARE TO BE BACKED AS OUTLINED UNDER SECTION VI OF VOLUME 1 IN THE FIRE RESISTIVE DIRECTORY.

CGC INC — TYPE SCX. UNITED STATES GYPSUM CO — TYPE SCX, SGX. USG BORAL DRYWALL SFZ LLC — TYPE SCX USG MEXICO S A DE C V - TYPE SCX

- 5D. GYPSUM BOARD\* (AS AN ALTERNATE TO ITEM 5) 5/8 IN. THICK, 48 IN. WIDE, APPLIED VERTICALLY OR HORIZONTALLY. SECURED AS DESCRIBED IN ITEM 6. FOR USE WITH ITEMS 1 AND 2 ONLY.
  - CGC INC TYPE USGX UNITED STATES GYPSUM CO - TYPE USGX USG BORAL DRYWALL SFZ LLC — TYPE USGX USG MEXICO S A DE C V - TYPE USGX
- 5E. 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). NOMINAL 5/8 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. WALLBOARD SECURED TO STUDS WITH 1-1/4 IN. LONG TYPE S-12 (OR NO. 6 BY 1-1/4 IN. LONG BUGLE HEAD FINE DRILLER) STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD.

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO - NELCO

GYPSUM BOARD\* - (AS AN ALTERNATE TO ITEM 5) - FOR USE WITH ITEMS 1E AND 2E AND LIMITED TO 1 HOUR RATING ONLY, GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY, AND FASTENED TO THE STEEL STUDS WITH 1 IN. LONG TYPE S SCREWS SPACED 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. STEEL STUD DEPTH SHALL BE A MINIMUM 3–5/8 IN.

UNITED STATES GYPSUM CO -5/8 IN. THICK TYPE SCX, SGX USG BORAL DRYWALL SFZ LLC -5/8 IN. THICK TYPE SCX, SGX

5G. 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 (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) STAGGERED A MIN OF 12 IN. THE THICKNESS AND NUMBER OF LAYERS FOR THE 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS:

GYPSUM BOARD PROTECTION ON EACH SIDE OF WALL

RATING HR.	MIN. STUD DEPTH, IN. (ITEM 2E)	No. OF LAYERS & THICKNESS OF PANEL	MIN. THICKNESS OF INSULATION (ITEM 4)
2	1-5/8 IN.	2 LAYER, 1/2 IN. THICK	OPTIONAL
2	1-5/8 IN.	2 LAYER, 5/8 IN. THICK	OPTIONAL
3	1-5/8 IN.	3 LAYER, 1/2 IN. THICK	OPTIONAL
3	1-5/8 IN.	3 LAYER, 5/8 IN. THICK	OPTIONAL
4	1-5/8 IN.	4 LAYER, 5/8 IN. THICK	OPTIONAL
1	1-5/8 IN	A LAYER 1/2 IN THICK	

CGC INC -1/2 IN. THICK TYPE C, IP-X2 OR IPC-AR;, 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, OR; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

UNITED STATES GYPSUM CO -1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR; 5/8 IN. THICK TYPE SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

USG BORAL DRYWALL SFZ LLC -1/2 IN. TYPE C; 5/8 IN. TYPES C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V -1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR; 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, OR; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

5H. 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 OR 3/4 IN. MAY BE USED AS ALTERNATE TO ALL 5/8 OR 3/4 IN. SHOWN IN ITEM 5, WALLBOARD PROTECTION ON EACH SIDE OF WALL TABLE. NOM 5/8 OR 3/4 IN. THICK LEAD BACKED GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY. VERTICAL JOINTS CENTERED OVER 20 MSG STEEL STUDS AND STAGGERED MIN 1 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 AT PERIMETER AND 12 IN. OC IN THE FIELD. GYPSUM BOARD SECURED TO 20 MSG STEEL STUDS ITEM 2B WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS SPACED 8 IN. OC AT PERIMETER AND 12 IN. OC IN THE FIELD. FOR JOINT COMPOUND SEE ITEM 5. TO BE USED WITH LEAD BATTEN STRIPS (SEE ITEM 11A) OR LEAD DISCS (SEE ITEM 12A).

MAYCO INDUSTRIES INC - TYPE X-RAY SHIELDED GYPSUM

51. 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

5J. 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 MIN 1 STUD CAVITY ON OPPOSITE SIDES OF STUDS. WALLBOARD SECURED TO STUDS WITH 1-1/4 IN. LONG TYPE S-12 STEEL SCREWS GYPSUM PANEL STEEL SCREWS SPACED 8 IN. OC AT 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 CONSTRUCTION ADHESIVE AND TWO 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. DIAM BY MAX 0.085 IN. THICK. COMPRESSION FITTED OR ADHERED OVER THE SCREW HEADS. LEAD BATTEN STRIPS AND DISCS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C".

RADIATION PROTECTION PRODUCTS INC - TYPE RPP - LEAD LINED DRYWALL

5K. 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 (MULTILAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE BACKED BY STEEL FRAMING. HORIZONTAL EDGE JOÍNTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTILAYER SYSTEMS) NEED NOT BE STAGGERED. THE NUMBER OF LAYERS FOR THE 1 HR, 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS:

GYPSUM BOARD PROTECTION ON EACH SIDE OF WALL

RATING HR.	MIN. STUD DEPTH, IN. (ITEM 2 THROUGH 20)	No. OF LAYERS & THICKNESS OF PANEL	MIN. THICKNESS OF INSULATION (ITEM 4B)
1	3-5/8 IN.	1 LAYER, 5/8 IN. THICK	3-1/2 IN.
2	1-5/8 IN.	2 LAYERS, 5/8 IN. THICK	OPTIONAL
3	1-5/8 IN.	3 LAYERS, 5/8 IN. THICK	OPTIONAL
4	1-5/8 IN.	4 LAYERS, 5/8 IN. THICK	OPTIONAL

UNITED STATES GYPSUM CO -5/8 IN. THICK TYPE ULIX

. FASTENERS — (NOT SHOWN) — FOR USE WITH ITEMS 2 AND 2F - TYPE S 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, SPACED 8 IN. OC WHEN PANELS ARE APPLIED HORIZONTALLY, OR 8 IN. OC ALONG VERTICAL AND BOTTOM EDGES AND 12 IN. OC IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY. TWO LAYER SYSTEMS: FIRST LAYER- 1 IN. LONG FOR 1/2 AND 5/8 IN. THICK PANELS OR 1-1/4 IN. LONG FOR 3/4 IN. THICK PANELS, SPACED 16 IN. OC. 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.THREE-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., 5/8 IN. THICK PANELS OR 2-5/8 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN. FROM LAYER BELOW. FOUR-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 5/8 IN. THICK PANELS, SPACED 24 IN. OC. FOURTH LAYER- 2-5/8 IN. LONG FOR 1/2 IN. THICK PANELS OR 3 IN. LONG FOR 5/8 IN. THICK PANELS, SPACED 12 IN. OC. SCREWS OFFSET MIN 6 IN. FROM LAYER BELOW.

. 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.





### U.L. ASSEMBLY SCHEDULE

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 OF OUTER LAYER PANELS. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM PANELS ARE

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 TIES ATTACHED TO EACH STUD WITH STEEL SCREWS, NOT MORE THAN EACH SIXTH

10. CAULKING AND SEALANTS\* - (OPTIONAL, NOT SHOWN) - A BEAD OF ACOUSTICAL SEALANT APPLIED AROUND THE

11. LEAD BATTEN STRIPS — (NOT SHOWN, FOR USE WITH ITEM 5B) — LEAD BATTEN STRIPS, MIN 1–1/2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.125 IN. STRIPS PLACED ON THE INTERIOR FACE OF STUDS AND ATTACHED FROM THE EXTERIOR FACE OF THE STUD WITH TWO 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 BATTEN STRIPS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED

11A. LEAD BATTEN STRIPS — (NOT SHOWN, FOR USE WITH ITEM 5H) — LEAD BATTEN STRIPS, 2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.140 IN. STRIPS PLACED ON THE FACE OF STUDS AND ATTACHED TO THE STUD WITH TWO MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP OR WITH ONE MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREW AT THE TOP OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.5% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADES "B, C OR D". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD AND OPTIONAL AT REMAINING

12. LEAD DISCS OR TABS — (NOT SHOWN, FOR USE WITH ITEM 5B) — USED IN LIEU OF OR IN ADDITION TO THE LEAD BATTEN STRIPS (ITEM 11) OR OPTIONAL AT OTHER LOCATIONS – MAX 3/4 IN. DIAM BY MAX 0.125 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS OR MAX 1/2 IN. BY 1-1/4 IN. BY MAX 0.125 IN. THICK LEAD TABS PLACED ON GYPSUM BOARDS (ITEM 5B) UNDERNEATH SCREW LOCATIONS PRIOR TO THE INSTALLATION OF THE SCREWS. LEAD DISCS OR TABS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE

12A. LEAD DISCS — (NOT SHOWN, FOR USE WITH ITEM 5H) — MAX 5/16 IN. DIAM BY MAX 0.140 IN. THICK LEAD DISCS COMPRESSION FITTED OR ADHERED OVER STEEL SCREW HEADS. LEAD DISCS TO HAVE A PURITY OF 99.5% MEETING THE

13. LEAD BATTEN STRIPS — (NOT SHOWN, FOR USE WITH ITEM 5E) — LEAD BATTEN STRIPS, 2 IN. WIDE, MAX 10 FT LONG WITH A MAX THICKNESS OF 0.142 IN. STRIPS PLACED ON THE FACE OF STUDS AND ATTACHED TO THE STUD WITH TWO MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREWS, ONE AT THE TOP OF THE STRIP AND ONE AT THE BOTTOM OF THE STRIP OR WITH ONE MIN. 1 IN. LONG MIN. TYPE S-8 PAN HEAD STEEL SCREW AT THE TOP OF THE STRIP. LEAD BATTEN STRIPS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C". LEAD BATTEN STRIPS REQUIRED BEHIND VERTICAL JOINTS OF LEAD BACKED GYPSUM WALLBOARD (ITEM 5E) AND OPTIONAL AT REMAINING STUD

14. LEAD TABS - (NOT SHOWN, FOR USE WITH ITEM 5E) - 2 IN. WIDE, 5 IN. LONG WITH A MAX THICKNESS OF 0.142 IN. TABS FRICTION-FIT AROUND FRONT FACE OF 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 5E) WILL PENETRATE THE STEEL STUD. LEAD TABS TO HAVE A PURITY OF 99.9% MEETING THE FEDERAL SPECIFICATION QQ-L-201F, GRADE "C". LEAD

BARRIER MESH CLIPS SPACED AT MAXIMUM 12 INCHES ON CENTER VERTICALLY, USING A FLAT HEAD TYPE SCREW PENETRATING THROUGH THE STEEL AT LEAST 3/8 OF AN INCH. FOR STEEL STUDS LESS THAN 0.033 INCHES IN THICKNESS. USE SELF-PIERCING SCREWS. FOR STEEL STUDS EQUAL TO OR GREATER THAN 0.033 INCHES IN THICKNESS, USE STEEL DRILL SCREWS (SELF-TAPPING). GYPSUM BOARD (ITEM 5) TO BE INSTALLED DIRECTLY OVER THE BARRIER MESH USING PRESCRIBED SCREW PATTERNS WITH LENGTHS INCREASED BY A MINIMUM 1/8 IN. BARRIER MESH MAY BE INSTALLED WITH THE LONG DIMENSION OF THE DIAMOND PATTERN POSITIONED VERTICALLY OR HORIZONTALLY. BARRIER MESH JOINTS MAY OCCUR AS BUTT JOINTS AT THE FRAMING MEMBERS AND SECURED USING THE BARRIER MESH CLIPS OR OCCUR IN BETWEEN FRAMING MEMBERS AS OVERLAPPING JOINTS SECURED USING 18 SWG WIRE TIES SPACED A MAXIMUM 12 IN. ON CENTER.

\* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE

