DHL CLINICAL SUITE 240

DEBORAH HEALTH MEDICAL OFFICE BUILDING

ARCHITECTURAL

PLUMBING

MECHANICAL

ELECTRICAL



2. A1.0 Code Analysis, General Notes, and Partial Second Floor Egress Plans

3. A2.1 Partial Second Floor Plans

4. A2.5 Enlarged Floor Plans5. A7.1 Room Finish Schedule and Details

Interior Elevations

7. A8.5 Cabinet, Counter, and Mounting Height Details
8. A9.1 Partial Second Floor Reflected Ceiling Plan
9. A10.1 Typical Wall Types and Details
10. A10.2 Interior Details

11. A10.6 Penetration Details

12. A10.7 Penetration Details 13. A11.1 Door Schedule and Details 17. M2.1 Partial Second Floor HVAC Plan

14. P1.0 Plumbing Schedules and Details15. P2.0 Partial Second Floor Water Plan 16. P2.1 Partial Second Floor Drain Plan

18. M4.1 HVAC Schedules

19. M5.1 HVAC Details

20. M6.1 HVAC Calculations

24. E3.1 Electrical Riser 25. E4.1 Electrical Panels

26. E4.2 Electrical Schedules

27. E5.1 Electrical Submetering Details

21. E1.1 Electrical Wiring Symbols and General Notes
22. E2.1 Electrical Floor Plan - Lighting
23. E2.2 Electrical Floor Plan - Outlets



VICINITY MAP

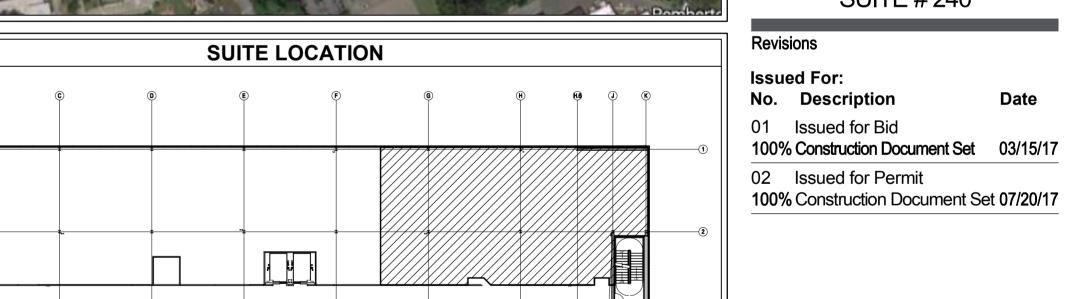
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DEBORAH HEALTH MEDICAL OFFICE BUILDING

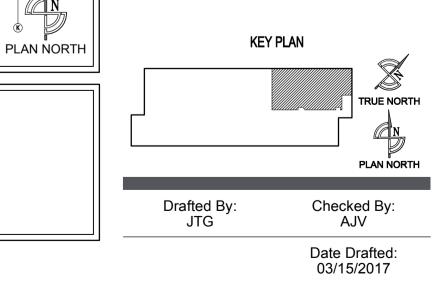


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SUITE # 240



ISSUED FOR PERMIT 100% CONSTRUCTION DOCUMENT SET DATED: JULY 20, 2017



TITLE SHEET

T1.0

SCALE: N.T.S.

AREA OF TENANT SPACE TOTAL SQUARE FEET = 3,985 SQ. FT.

PLUMBING FIXTURE COUNT							
USE	occ	CUPANTS	WATER CLOSET'S REQUIRED		LAVATORIES REQUIRED		DRINKING FOUNTAINS
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	REQUIRED
BUSINESS AREAS	11	11	$\frac{1}{15}$ OCC = 0.73	$\frac{1}{15}$ OCC = 0.73	$\frac{1}{15}$ OCC = 0.73	$\frac{1}{15}$ OCC = 0.73	$\frac{1}{100} = 0.22$
32 OCC. x 2/3 = 22							
VESTIBULE / STAFF LOUNGE	12	12	$\frac{1}{50}$ OCC = 0.24	$\frac{1}{50}$ OCC = 0.24	$\frac{1}{50}$ OCC = 0.24	$\frac{1}{50}$ OCC = 0.24	$1/_{1000} = 0.023$
34 OCC. x 2/3 = 23							
TOTAL			(0.97) 1	(0.97) 1	(0.97) 1	(0.97) 1	(0.243) 1
(*) ADDITIONAL FIXTURES PROVIDED IN MAIN CORRIDOR AS A PART OF		WATER CLOSET'S PROVIDED		LAVATORIES PROVIDED		DRINKING FOUNTAINS	
SHELL BUILDING PERMIT.			MEN	WOMEN	MEN	WOMEN	PROVIDED
			1*	1*	1*	1*	2*

BUILDING HEIGHT	AND AREA	(CORE AND	SHELL
	, , ,	10011271112	U ::

ACTU/	AL HEIGHT AND AREA	
1.	HEIGHT (STORIES)	

3 STORIES 44'-0" 2. HEIGHT (FEET) 3. AREA (1ST FLOOR) 20,334 SQ.FT.

BUSINESS AREAS ASSEMBLY AREAS (WAITING, STAFF LOUNGE)	3,148 SQ. FT. 837 SQ. FT.	MAX. 100 GSF PER OCCUPANT = 3,148/100 = MAX. 15 NSF PER OCCUPANT = 837/15 = (DESIGN OCCUPANT LOAD)	32 OCCUPANTS 56 OCCUPANTS (34 OCCUPANTS)
TOTAL			66 OCCUPANTS

EGRESS REQUIREMENTS

EXIT ACCESS TRAVEL DISTANCE 300' MAX. TABLE 1015.1 WITH SPRINKLER SYSTEM

SECTION 1005.1

9.6"

SECTION 1018.2

EGRESS WIDTH/OCCUPANT MULTIPLIER 1. STAIRS = 0.3"/OCCUPANT WITH SPRINKLERS 2. OTHER EGRESS = 0.2"/OCCUPANT WITH SPRINKLERS

MINIMUM WIDTH OF CORRIDOR 1. MINIMUM WIDTH PER CODE 2. ACTUAL WIDTH

 D. DEAD END CORRIDOR 1. SECTION 1020.4 - EXCEPTION #2

EXT.

EXAM

FACP

EXP.

EXTERIOR

EXAMINATION

FLOOR DRAIN

FIRE ALARM CONTROL

EXPANSION

PANEL

PA

P.H.

PB

PC

BUILDING CODE ACCESSIBILITY CODE MECHANICAL CODE

GOVERNING CODES

2015 INTERNATIONAL BUILDING CODE - NEW JERSEY ED. 2009 ICC/ANSI 117.1

PLUMBING CODE ELECTRICAL CODE FIRE CODE LIFE SAFETY CODE **ENERGY CODE**

OTHER

2015 INTERNATIONAL MECHANICAL CODE 2015 NATIONAL STANDARD PLUMBING CODE 2014 NATIONAL ELECTRICAL CODE - NFPA 70 2015 INTERNATIONAL FIRE CODE 2012 NFPA 101 LIFE SAFETY CODE (CMS, NJDOH & TJC) ASHRAE 90.1 - 2013 EDITION PER NJAC

2015 NEW JERSEY ADMINISTRATIVE CODE 5:23 UNIFORM CONSTRUCTION CODE 2014 GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HOSPITALS AND OUTPATIENT FACILITIES (NJDOH)

CONSTRUCTION CLASSIFICATION

TYPE II-A / II(000) - FULLY SPRINKLERED

USE AND OCCUPANCY

BUSINESS GROUP B - MEDICAL OFFICE

SECTION 304.1

GEOGRAPHICAL INFORMATION

CLIMATE ZONE: SEISMIC ZONE CLASS: WIND LOAD:

EXPOSURE - B

BUILDING FIRE PROTECTION

FIRE SUPPRESSION SYSTEM: STANDPIPE SYSTEM: FIRE ALARM SYSTEM:	NFPA YES YES	13 - FULLY SPF	RINKLERED	SECTION 903.3.1.1 SECTION 905.3.1 SECTION 907.2.1/2
STRUCTURAL FRAME: BEARING WALLS:		REQUIRED 1 HOUR	PROVIDED 1 &2 HOUR	SECTION 601
INTERIOR:		1 HOUR 1 HOUR	N/A N/A	SECTION 601 SECTION 602
NON BEARING WALLS AND PART	TITIONS	:		
INTERIOR: EXTERIOR:		0 HOUR 0 HOUR	1 & 2 HOUR 0 HOUR	SECTION 601 SECTION 602
FLOOR CONSTRUCTION:		1 HOUR	1 & 2 HOUR	SECTION 601
ROOF CONSTRUCTION: STAIRS AND ELEVATORS:		1 HOUR 2 HOUR	1 HOUR 2 HOUR	SECTION 601 SECTION 1023.7
SHAFTS:		1 & 2 HOUR		
FIRE DAMPERS REQUIRED: SMOKE DAMPERS REQUIRED:		YES YES		SECTION 716 SECTION 716

ABBREVIATIONS

@	AT	FE	FIRE EXTINGUISHER	PLS	PLASTIC LAMINATE SHELF
ACOUS.	ACOUSTICAL	FEC	FIRE EXTINGUISHER	PTD.	PAINTED
ADJ.	ADJUSTABLE		CABINET	PLWD.	PLYWOOD
AL.	ALUMINUM	FG	FIXED GLASS	PT	PASS-THRU
A.F.F.	ABOVE FINISHED FLOOR	FHC	FIRE HOSE CABINET	QT.	QUARRY TILE
ANOD.	ANODIZED	FIN.	FINISHED	RD	ROOF DRAIN
B.L.	BRICK LEDGE	FLR.	FLOOR	REF.	REFRACTORY
BITUM.	BITUMINOUS	FUT.	FUTURE	REFR.	REFRIGERATOR
BLDG.	BUILDING	FTG.	FOOTING	REF. SP.	REFRIGERATOR SPACE
BD.	BOARD	FURR.	FURRING	REINF.	REINFORCING
BRG.	BEARING	GA.	GAUGE	RM.	ROOM
	BUSINESS/RECEPTION	GALV.	GALVANIZED	R.O.	ROUGH OPENING
С	CONDUIT	GB	GRAB BAR	R&S	ROD & SHELF
CAB.	CABINET	GWB	GYPSUM WALLBOARD	RSA	RENTAL SUITE AREA
CI	CAST IRON	GYP	GYPSUM	RX	PRESCRIPTION DESK
CER. T.	CERAMIC TILE	HDCP.	HANDICAPPED	SIM.	SIMILAR
CH	COAT HOOK	HDR.	HEADER	SHT.	SHEET
CJ	CONTROL JOINT	HM	HOLLOW METAL	SFT.	SOFFIT
CKT.	CIRCUIT	HR.	HOUR	SGW	SLIDING GLASS WINDOW
CL	CARPET LINE	HGT.	HEIGHT	SH.	SHELF
CLG.	CEILING	HVAC	HEATING VENTILATING & AIR	SB c/B	SUPPORT BRACKET
CLO.	CLOSET	15	CONDITIONING	S/P	SPECIAL PROCEDURE
CMU	CONCRETE MASONRY UNITS	ID	INSIDE DIAMETER	STL.	STEEL
CNTR.	COUNTER	IE INSUL.	INVERT ELEVATION	STRUCT. SS	STRUCTURAL STAINLESS STEEL
COL. CONC.	COLUMN CONCRETE	JB	INSULATION JUNCTION BOX	SSP	SCALE SPACE
CONC.	CONCRETE	JST.	JOIST	SURG.	SURGICAL
CONN. CONS.	CONSULATION/OFFICE	KS	KNEE SPACE	TC	TUBE COLUMN
CONS.	CONSULATION/OFFICE	KW	KILOWATT	TOC	TOP OF COLUMN
CONT.	CONTRACTOR	LAB	LABORATORY	TEL.	TELEPHONE
CORR.	CORRIDOR	LGW	LEAD GLASS WINDOW	T&P	TEMPERATURE & PRESSURE
CP CP	CHROME PLATED	LL	LEAD LINED	TEMJ	TOP ELEVATION MATCHES
CR	CRASH RAIL	LLH	LONG LEG HORIZONTAL	LIVIO	JOIST
CRS	COURSE	LLV	LONG LEG VERTICAL	TOS	TOP OF STEEL
CSBA	COLOR SELECTED BY	LP	LIGHTPROOF	TLT.	TOILET
	ARCHITECT	MAX.	MAXIMUM	TW	TYPEWRITER SPACE
CT	CURTAIN TRACK	M	MIRROR	TYP.	TYPICAL
CTR.	COUNTER	MFR.	MANUFACTURER	UL	UNDERWRITERS
CU	COPPER	MIN.	MINIMUM		LABORATORIES
DN.	DOWN	M.0.	MASONRY OPENING	UCR	UNDERCOUNTER
DWG.	DRAWING	M/S	MIRROR & SHELF		REFRIGERATOR SPACE
EDF	ELECTRIC DRINKING FOUNTAIN	NMTP	METAL TOILET PARTITION	UNO	UNLESS NOTED OTHERWISE
EUH	ELECTRIC UNIT HEATER	M/SURG.	MINOR SURGERY	VWC	VINYL WALL COVERING
EWH	ELECTRIC WALL HEATER	MTG.	MOUNTING	VB	VIEW BOX
ELECT.	ELECTRIC	NEC	NATIONAL ELECTRICAL CODE	VERT.	VERTICAL
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	V.I.F.	VERIFY IN FIELD
EA.	EACH	N/S	NURSE STATION	W/	WITH
EL.	ELEVATION	O.C.	ON CENTER	WDW.	WINDOW
ELEV.	ELEVATOR	O.D.	OUTSIDE DIAMETER	WG	WIRE GLASS
EMERG.	EMERGENCY	O.F.	OVERFLOW	WL	WARNING LIGHT
EP	END PANEL	O.F.I.C.	OWNER FURNISHED,	WP	WEATHERPROOF
ES	END SUPPORT		INSTALLED BY CONTRACTOR	WWM	WELDED WIRE MESH
EQUIP.	EQUIPMENT	OFC.	OFFICE	W.D.	WRITING DESK
EXIST.	EXISTING	OPP.	OPPOSITE HAND	XFMR.	TRANSFORMER
FYT	EXTERIOR	$P\Delta$	PARTITION ANCHOR		

PARTITION ANCHOR

PANIC HARDWARE

PASS BOX

PLATE

PIPE COLUMN

PENCIL DRAWER

GENERAL NOTES

- A. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE
- . CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT.

C. MECHANICAL CONTRACTOR SHALL INSTALL COMPLETE HVAC SYSTEM IN

ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND

D. PLUMBING CONTRACTOR SHALL INSTALL PLUMBING SYSTEMS IN ACCORDANCE

ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND

- WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND BUILDING ELECTRICAL CONTRACTOR SHALL INSTALL COMPLETE ELECTRICAL SYSTEMS IN
- BUILDING STANDARDS. CONTRACTOR WILL COORDINATE KEY SCHEDULE WITH THE OWNER, PRIOR TO PROJECT SPACE COMPLETION. CLEARLY MARKED KEYS WILL BE TURNED
- OVER TO OWNER'S REP. G. THESE CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE A SET AND SHALL BE DISTRIBUTED INTACT. IF SETS ARE DISASSEMBLED TO OBTAIN BIDS FROM

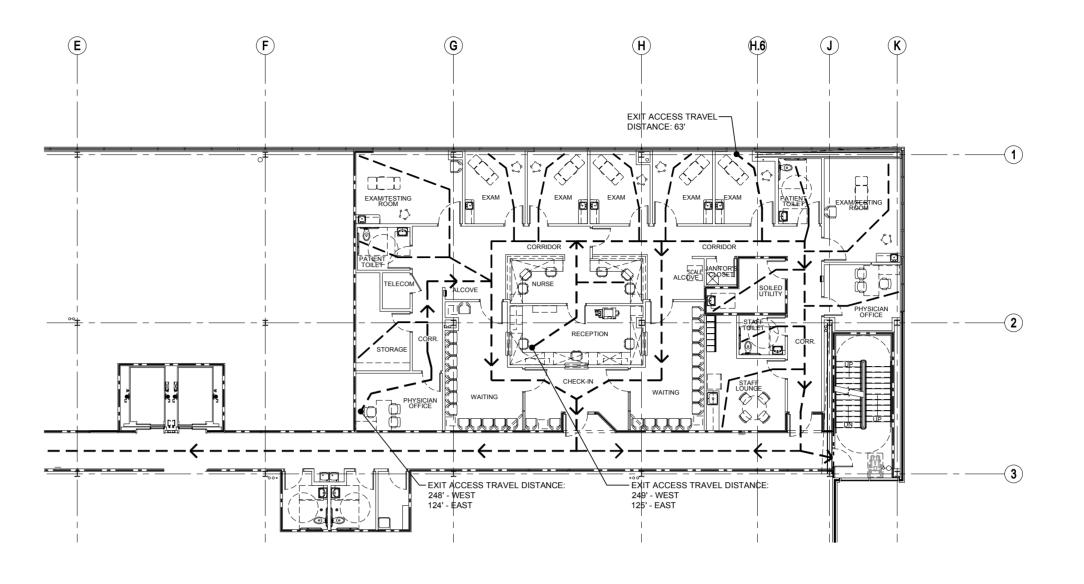
FOR SUB-CONTRACTOR COORDINATION.

SUB-CONTRACTOR, GENERAL CONTRACTOR ASSUMES ALL RESPONSIBILITY

CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING OUT DESIGN/BUILD OF AUTOMATIC FIRE SUPPRESSION SYSTEM. LOCAL FIRE PROTECTION CONTRACTOR (FPC) SHALL DESIGN AUTOMATIC FIRE SUPPRESSION SYSTEM IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND BUILDING STANDARDS. FPC SHALL BE RESPONSIBLE FOR ALL INCIDENTAL COSTS RELATIVE TO THE COMPLETE INSTALLATION OF THE SYSTEM INCLUDING SYSTEM DESIGN, PLAN SUBMITTALS, FEES AND PERMITS. FPC SHALL BE RESPONSIBLE FOR SUBMITTING THE NECESSARY PLAN DATA TO THE

APPROPRIATE BODIES FOR PLAN REVIEW AND PERMIT ISSUANCE.

- CONTRACTOR SHALL HIRE LOCAL FIRE ALARM CONTRACTOR TO DESIGN FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL APPLICABLE LOCAL. STATE AND FEDERAL CODES AND BUILDING STANDARDS. FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR ALL INCIDENTAL COSTS RELATIVE TO THE COMPLETE INSTALLATION OF THIS SYSTEM INCLUDING SYSTEM DESIGN, BATTERY CALCULATIONS, PLAN SUBMITTALS, FEES AND PERMITS.
- THE CONTRACTOR, PRIOR TO SUBMISSION OF BID, SHALL VISIT THE PROJECT SITE AND BECOME FAMILIAR WITH ALL VISIBLE EXISTING CONDITIONS. THIS SHALL INCLUDE CONDITIONS ABOVE EXISTING REMOVABLE SUSPENDED CEILINGS BOTH AT THE PROJECT FLOOR LEVEL AND AT FLOOR LEVELS BELOW AND ABOVE, WHEREVER NEW WORK IS TO BE INSTALLED . AS A RESULT OF HAVING VISITED THE SITE, CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE NEW WORK AS IT RELATES TO THE EXISTING CONDITIONS. THE SUBMISSION OF A BID SHALL BE THE BIDDER'S ACKNOWLEDGEMENT OF HIS VISITATION TO AND INSPECTION OF THE SITE CONDITIONS. THE CONTRACTOR, PRIOR TO SUBMITTING BID, SHALL NOTIFY AND COORDINATE WITH ALL OTHER TRADES THAT MAY BE AFFECTED BY THE INSTALLATION OF THIS WORK. THOSE AFFECTED TRADES SHALL LIST AS A SEPARATE LINE ITEM IN ADDITION TO BASE BID, THE COST TO MODIFY EXISTING PLUMBING, ELECTRICAL AND/OR MECHANICAL SYSTEMS TO ALLOW FOR THE INSTALLATION OF NEW WORK FOR THIS PROJECT. COORDINATE THE ABOVE WITH GENERAL CONTRACTOR DURING BIDDING.



PARTIAL SECOND FLOOR EXIT ACCESS TRAVEL DISTANCE PLAN

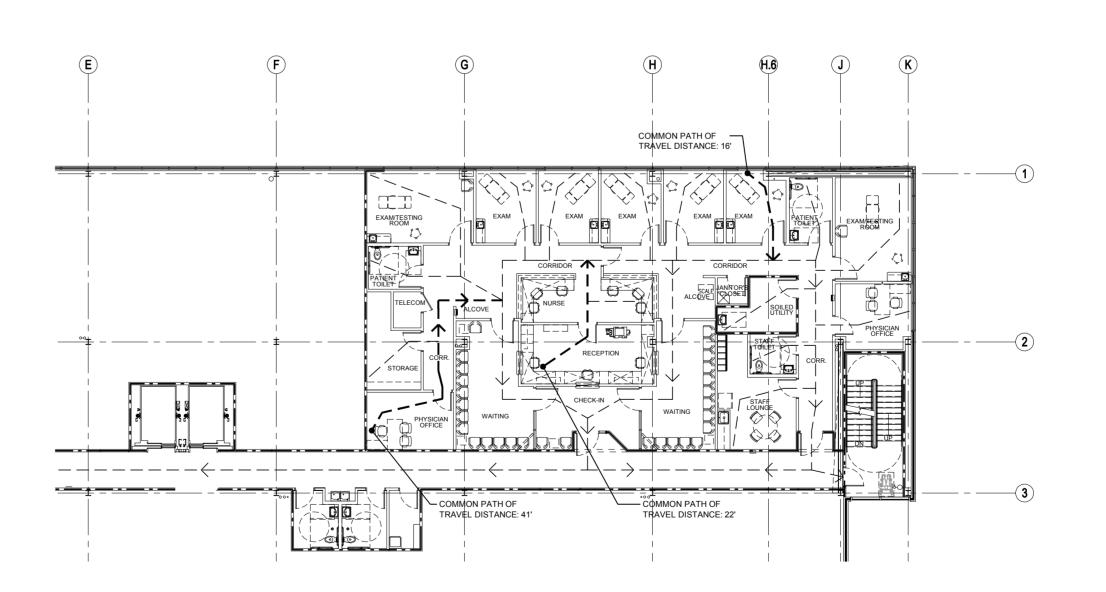
EGRESS REQUIREMENTS

50 FT (38.2.5.2.1)

2012 NFPA 101 - LSC 2015 IBC - NJ EDITION 300 FT (TABLE 1017.2) TRAVEL DISTANCE 300 FT (38.2.6.3) COMMON PATH OF TRAVEL: 100 FT (TABLE 1006.2.1) 100 FT (38.2.5.3.1)

50 FT (1020.4)

DEAD-END CORRIDORS:



\ PARTIAL SECOND FLOOR COMMON PATH OF TRAVEL DISTANCE PLAN

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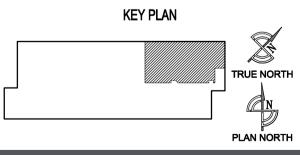
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SUITE # 240

Revisions

Issued For: No. Description Date 01 Issued for Bid 100% Construction Document Set 03/15/17

02 Issued for Permit 100% Construction Document Set 07/20/17

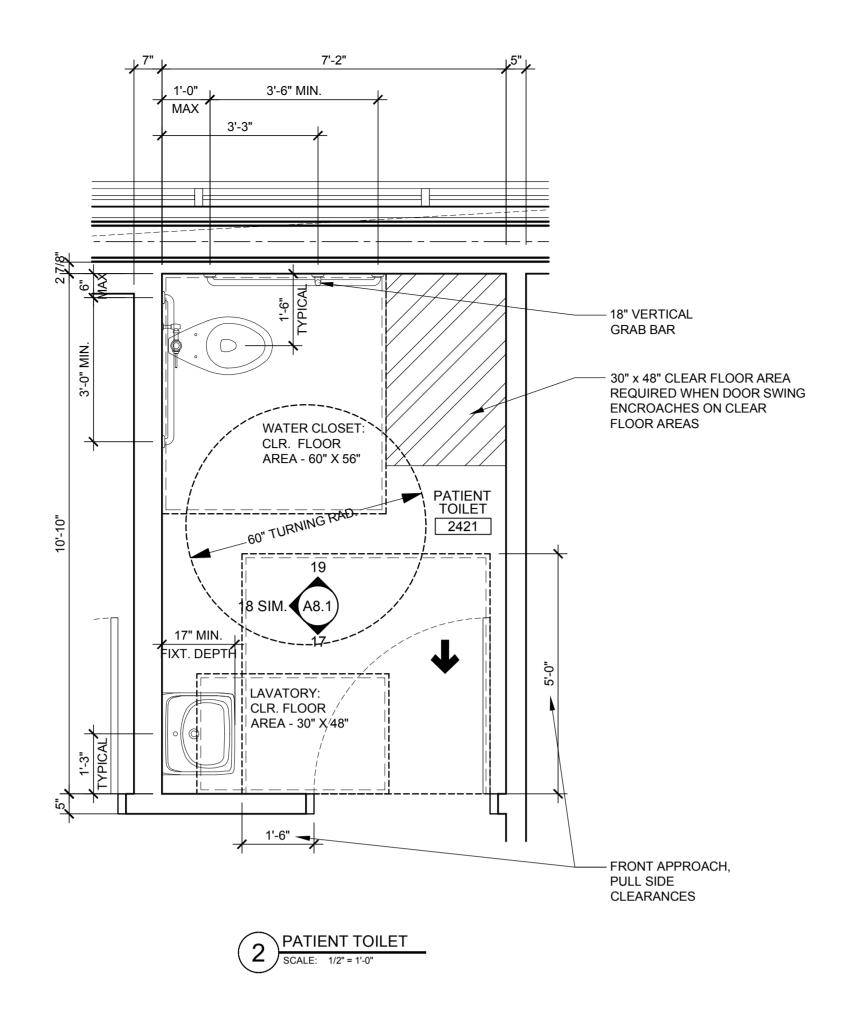


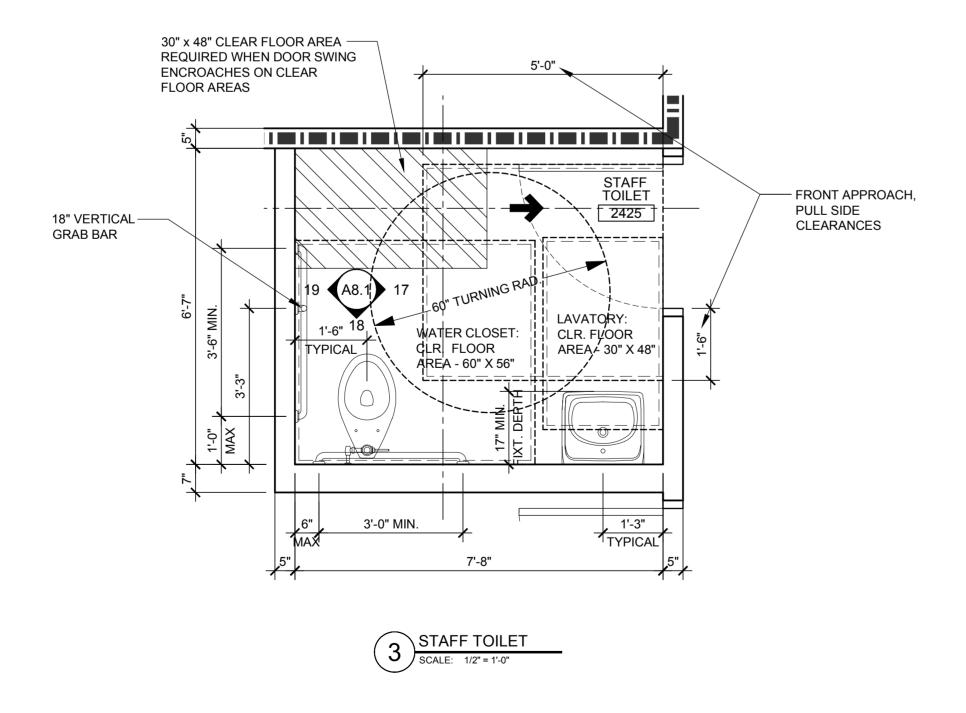
Drafted By: Checked By: AJVJTG

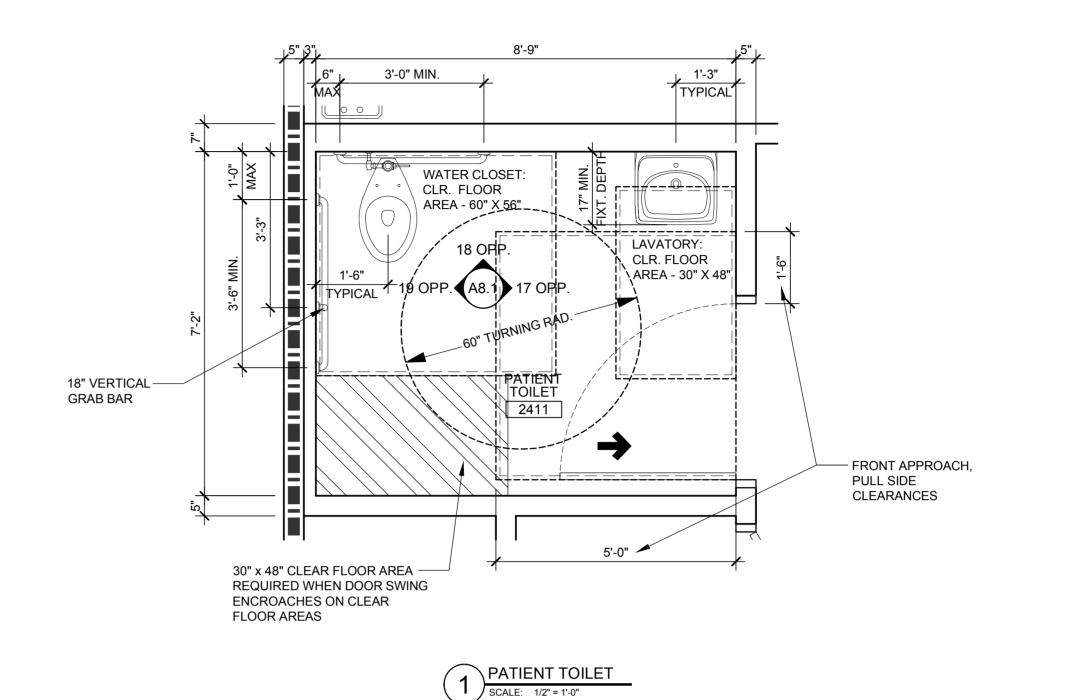
Date Drafted: 03/15/2017

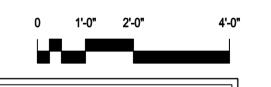
CODE ANALYSIS, GENERAL NOTES, AND PARTIAL SECOND FLOOR **EGRESS PLANS**

SCALE: 1/16" = 1'-0"









TOILET ROOM GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL CODES AND ORDINANCES.
- 2. ALL HARDWARE SHALL BE MOUNTED IN FULL COMPLIANCE WITH ALL APPLICABLE CODE REQUIREMENTS.
- 3. ALL TOILET ROOMS SHALL RECEIVE PROPER SIGNAGE PER REQUIREMENTS.
- 4. REFER TO DETAIL #2 ON A10.1 FOR BLOCKING REQUIREMENTS.
- 5. ALL TOILETS AND LAVATORIES SHALL BE HANDICAP ACCESSIBLE.
- 6. ALL EXPOSED HOT WATER PIPING & DRAIN PIPING SHALL BE INSULATED.
- 7. TOILETS SHALL BE CENTERED 18" FROM NEAREST WALL.
- 8. SINKS SHALL BE CENTERED 15" FROM NEAREST WALL UNLESS OTHERWISE NOTED.
- 9. 36" GRAB BARS SHALL BE LOCATED BEHIND TOILETS 6" FROM ADJACENT WALL AND 42" GRAB BARS SHALL BE LOCATED ON ADJACENT WALL 12" FROM REAR WALL. VERTICAL GRAB BARS SHALL BE INSTALLED PER CODE.
- 10. ALL TOILET ROOM WALLS SHALL RECEIVE ACOUSTICAL INSULATION.
- 11. SHADED AREA DENOTES 30" X 48" CLEAR FLOOR AREA REQUIRED WHEN DOOR SWINGS INTO FIXTURE CLEAR FLOOR AREA.

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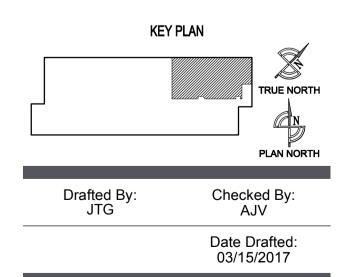
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01 Issued for Bid
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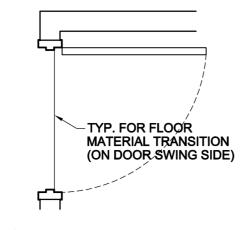
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ENLARGED FLOOR PLANS

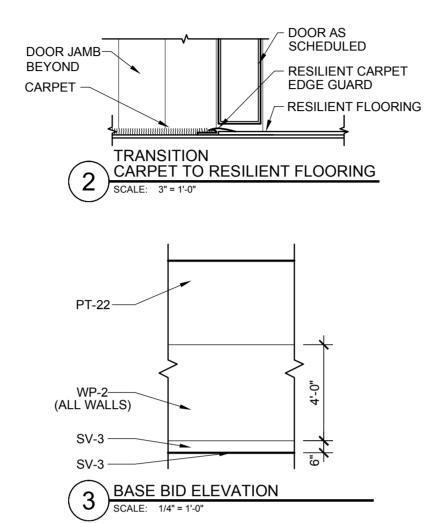
A2.5

SCALE: 1/2" = 1'-0"



FLOOR MATERIAL TRANSITION

SCALE: 1/2" = 1'-0"



PT PAINT		ABBREVIATIONS	
PLAM PLASTIC LAMINATE HM HOLLOW METAL ALUM ALUMINUM PREF PREFINISHED GL GLASS WD WOOD VP VINYL PLANK CT CERAMIC TILE	PLAM HM ALUM PREF GL WD VP	PLASTIC LAMINATE HOLLOW METAL ALUMINUM PREFINISHED GLASS WOOD VINYL PLANK	

ROOM FINISH NOTES

MATCH ADJACENT WALL UNLESS NOTED
OTHERWISE ON DRAWINGS OR SCHEDULES

2. VINYL FLOOR TRANSITION STRIP COLOR
SHALL MATCH VINYL BASE COLOR.

3. CEILINGS ARE ALL 2X2 ACOUSTICAL CEILING
TILES UNLESS OTHERWISE NOTED. SEE
SPECIFICATIONS FOR MORE INFORMATION.

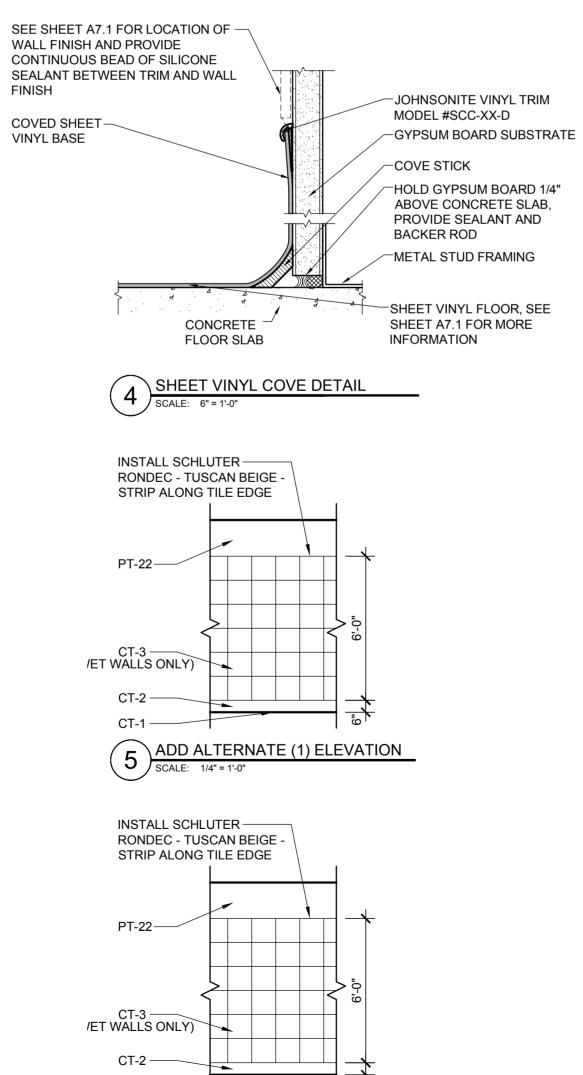
4. ALL TOILET ROOM WALLS SHALL RECEIVE

EPOXY PAINT - SEE SPECIFICATIONS FOR

CONTRACTOR SHALL PAINT DOOR FRAME TO

- MORE INFORMATION.

 5. ALL ADJUSTABLE PLASTIC LAMINATE SHELVES PER SPECIFICATION SECTION 064000.
- 6. SOLID SURFACE MATERIAL WILL BE INSTALLED ON CHECK-IN COUNTER LEDGE ONLY. GENERAL CONTRACTOR SHALL BID SSM-5 AS ALTERNATE BID AND PLAM-7 AS BASE BID.
- 7. SV-3 BASE BID FOR ALL SUITE TOILET FLOORING. SV-3 BASE BID FOR ALL SUITE TOILET BASE MATERIAL. BASE BID FOR WALL FINISH SEE 3/A7.1, OR AS NOTED IN SCHEDULE. PROVIDE CT-1 (FLOORING), CT-2 (BASE), CT-3 (WALL) AS ADD ALTERNATE (1). IF ADD ALTERNATE (1) IS SELECTED, VERIFY WITH OWNER/ARCHITECT PRIOR TO ORDERING/INSTALLATION. SEE 5/A7.1 FOR MORE INFORMATION.
- 8. SV-3 BASE BID FOR ALL SUITE TOILET FLOORING. SV-3 BASE BID FOR ALL SUITE TOILET BASE MATERIAL. BASE BID FOR WALL FINISH SEE 3/A7.1, OR AS NOTED IN SCHEDULE. PROVIDE VCT-1 (FLOORING), CT-2 (BASE), CT-3 (WALL) AS ADD ALTERNATE (2). IF ADD ALTERNATE (2) IS SELECTED, VERIFY WITH OWNER/ARCHITECT PRIOR TO ORDERING/INSTALLATION. SEE 6/A7.1 FOR MORE INFORMATION.



ADD ALTERNATE (2) ELEVATION

SCALE: 1/4" = 1'-0"

ROOM FINISH SCHEDULE									
ROOM NO.	ROOM NAME	FLC FINISH	OOR BASE	NORTH	WA EAST	LLS SOUTH	WEST	PL	AM CASEWORK
2400	CHECK-IN	CPT-4	VB-3	PT-9	PT-9	PT-8	DT 0	PLAM-7, SEE NOTE 6	
2401	WAITING	CPT-4	VB-3	PT-9	PT-9	PT-8	DT 0	PLAM-7, SEE NOTE 6	
2402	ALCOVE	VP-14	VB-1	PT-1	PT-1	PT-8	PT-1	-	-
2403	NURSE	VP-14	VB-1	PT-9	PT-9	PT-8	PT-9	PLAM-11	PLAM-11
2404	RECEPTION	CPT-4	VB-3	PT-9	PT-9	PT-8	PT-9	PLAM-9	PLAM-9
2405	ALCOVE	VP-14	VB-1	PT-1	PT-1	PT-8	PT-1	-	-
2406	WAITING	CPT-4	VB-3	PT-9	PT-9	PT-8	PT-9	PLAM-7	-
2407	CORRIDOR	VP-14	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2408	PHYSICIAN OFFICE	CPT-4	VB-3	PT-9	PT-9	PT-8	PT-9	-	-
2409	STORAGE	VCT-1	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2410	TELECOM	VCT-1	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2411	PATIENT TOILET	SV-3; SEE NOTES 7 & 8	SV-3; SEE NOTES 7 & 8	SEE NOTES 4, 7, 8; SEE 3/A7.1	PT-22; SEE NOTES 4, 7, 8	PT-22; SEE NOTES 4, 7, 8	SEE NOTES 4, 7, 8; SEE 3/A7.1	-	-
2412	EXAM	VP-14	VB-1	PT-1	PT-8	PT-1	PT-1	PLAM-11	PLAM-7
2413	CORRIDOR	VP-14	VB-1	PT-1	PT-1	PT-8	PT-1	-	-
2414	EXAM	VP-14	VB-1	PT-1	PT-8	PT-1	PT-1	PLAM-11	PLAM-7
2415	EXAM	VP-14	VB-1	PT-1	PT-1	PT-1	PT-8	PLAM-11	PLAM-7
2416	EXAM	VP-14	VB-1	PT-1	PT-8	PT-1	PT-1	PLAM-11	PLAM-7
2417	EXAM	VP-14	VB-1	PT-1	PT-1	PT-1	PT-8	PLAM-11	PLAM-7
2418	EXAM	VP-14	VB-1	PT-1	PT-8	PT-1	PT-1	PLAM-11	PLAM-7
2419	CORRIDOR	VP-14	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2420	JANITOR'S CLOSET	VCT-1	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2421	PATIENT TOILET	SV-3; SEE NOTES 7 & 8	SV-3; SEE NOTES 7 & 8	SEE NOTES 4, 7, 8; SEE 3/A7.1	SEE NOTES 4, 7, 8; SEE 3/A7.1	PT-22; SEE NOTES 4, 7, 8	PT-22; SEE NOTES 4, 7, 8	-	-
2422	EXAM	VP-14	VB-1	PT-1	PT-1	PT-1	PT-8	PLAM-11	PLAM-7
2423	SOLED UTILITY	VCT-1	VB-1	PT-1	PT-1	PT-1	PT-1	-	-
2424	PHYSICIAN OFFICE	CPT-4	VB-3	PT-8	PT-9	PT-9	PT-9	-	-
2425	STAFF TOILET	SV-3; SEE NOTES 7 & 8	SV-3; SEE NOTES 7 & 8	PT-22; SEE NOTES 4, 7, 8	PT-22; SEE NOTES 4, 7, 8	SEE NOTES 4, 7, 8; SEE 3/A7.1	SEE NOTES 4, 7, 8; SEE 3/A7.1	-	-
2426	STAFF LOUNGE	VCT-1	VB-1	PT-1	PT-1	PT-2	PT-1	PLAM-11	PLAM-3
2427	CORRIDOR	VP-14	VB-1	PT-1	PT-1	PT-1	PT-1	-	_

2426	STAFF LOUNGE	VCT-1	VB-1	PT-1	PT-1	PT-2	PT-1	PLAM-11	PLAM-3		
2427	CORRIDOR	VP-14	VB-1	PT-1	PT-1	PT-1	PT-1	-	-		
MATERIAL SCHEDULE											
INDICATION	ON MANUFACTURER		N	AME		COLOR / F	PATTERN				
				CPT = CARP	ET	·					
CPT-3	BENTLEY PRINCE	STREET	M	ODERN BLOCK 8MK28	3	ADAPTED	SCREENPLAY 422	709			
				VB = VINYL B	ASE						
VB-1	ROPPE					191 CAME	L				
VB-3	ROPPE					177 STEEL	BLUE				
PT = PAINT											
PT-1	BENJAMIN MOOR	E				1034 MUS	LIN				
PT-2	BENJAMIN MOOR	E				998 CABO	T TRAIL				
PT-8	SHERWIN WILLIAM	MS				6235 FOG	GY DAY				
PT-9	SHERWIN WILLIAM	MS				7015 REPO	OSE GRAY				
PT-22	SHERWIN WILLIAM	MS				7656 RHIN	ESTONE				
PLAM = PLASTIC LAMINATE											
PLAM-1	WILSONART		R	VER CHERRY		7937-38	7937-38				
PLAM-3	WILSONART		Т	JNGSTEN		4814-60	4814-60				
PLAM-7	WILSONART		С	CARBON EV			4820-60				
PLAM-9	WILSONART		Р	PEARL SOAPSTONE							
PLAM-11	WILSONART		N	NATURAL COTTON			4946-38				
				WP = WALL PROT							
WP-2	ALTRO		N	HITEROCK (MATTE FI	NISH)	SNOWDRI	FT / ICE 44				
				VP = VINYL PL	ANK						
VP-14	ARMSTRONG		N	ATURAL CREATIONS	ZAINK	TP023 THE	OOR PLANK MEDIU	M (6×36)			
VF-14	ARMSTRONG			ATONAL CITEATIONS		11-023 101	JON F LAINN WILDIO	W (0X30)			
				VCT = VINYL COMP	OSITE TILE						
VCT-1	ARMSTRONG						51858 SANDRIFT WHITE				
	<u> </u>					'					
			SSM = SOLID SU	RFACE MATERIAL - AI	DD ALTERNATE (SE	E NOTE 6)					
SSM-5	AVONITE - STUDIO	O COLLECTION	s	SILVER COMET							
	'		•			'					
				SV = SHEET V	INYL						
SV-3	ALTRO			RELIANCE 25			D2502 FOUNTAIN				
						1					
				CT = CERAMIC	TILE						
CT-1	DALTILE (FLOOR	TILE)	S	SANDALO RAFFIA NOCE			SW93 (12"x12")				
CT-2	DALTILE (CUT BAS	SE)	S	ANDALO RAFFIA NOCI	E	SW93 (6"x	12")				
CT-3	DALTILE (WALL TI	LE)	S	SANDALO SERENE WHITE			SW90 (12"x12")				

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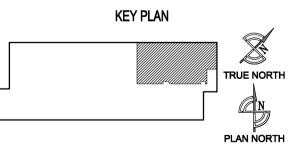


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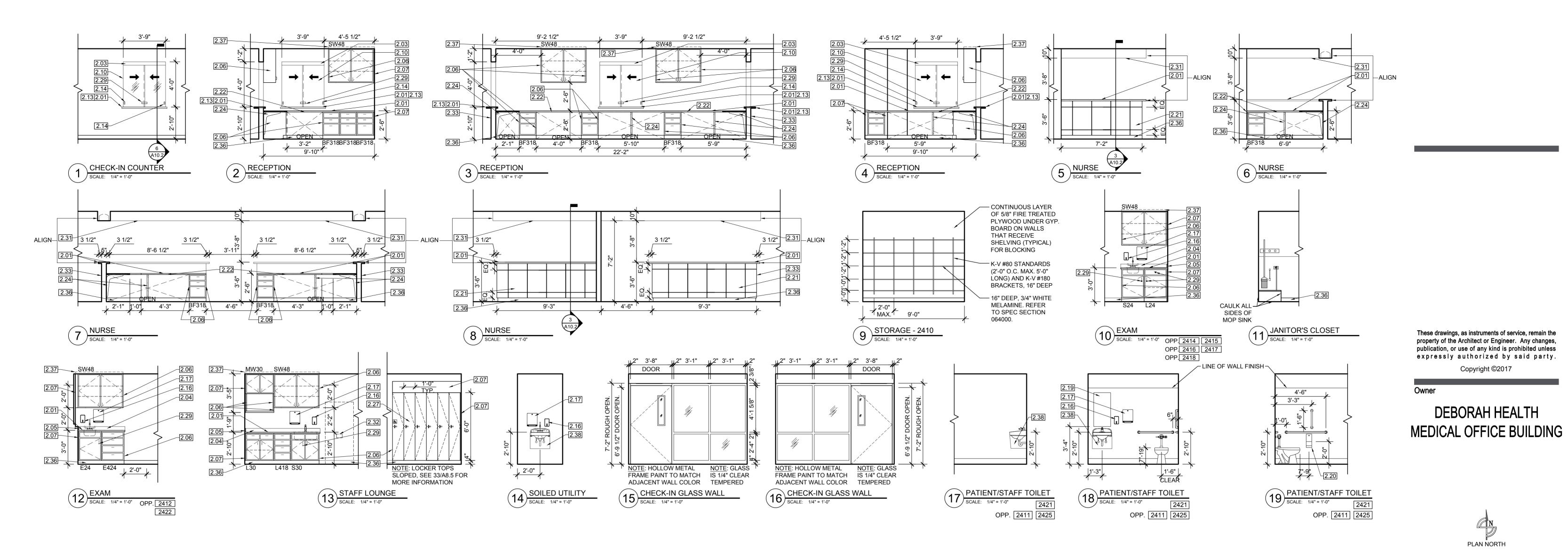
100% Construction Document Set 07/20/17



	PLAN NORTH
Drafted By: JTG	Checked By: AJV
	Date Drafted: 03/15/2017

ROOM FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS

A7.1



PLAN NORTH

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2.25 BRACE FRAME ENCLOSURE BEYOND

2.26 REMOVABLE PLASTIC LAMINATE PANEL

2.27 LOCKABLE PLAM LOCKERS

2.28 PLASTIC LAMINATE BENCH

2.29 CAM LOCK

2.11 COLOR TO CLOSELY MATCH

CASEWORK COLOR SELECTION

2.12 GYPSUM BOARD CASED OPENING

2.14 ADHESIVE BACKED FINGER PULLS

2.13 SOLID SURFACE COUNTERTOP - ADD ALTERNATE

GENERAL NOTES . PLASTIC LAMINATE CABINETS

7. ALL FILE DRAWERS SHALL HAVE

APPROPRIATE FILE HANGER

HARDWARE TO ACCOMMODATE

BOTH LETTER AND LEGAL-SIZE

8. PROVIDE WIRE ACCESS GROMMET

HOLES, PER SPECIFICATION

LOCATED ABOVE OPEN/KNEE

SPACE. PROVIDE ONE HOLE PER

AND CONFIRM LOCATIONS WITH

WORKSTATION - FIELD VERIFY

SECTION 064000, IN ALL

COUNTERTOPS THAT ARE

TENANTS AND LANDMARK.

FOLDERS.

FINISHES SHALL BE PER SHEET A7.1 UNLESS NOTED OTHERWISE. 2. COUNTERTOPS FINISHES SHALL BE PER SHEET A7.1 UNLESS

NOTED OTHERWISE.

PROVIDE 2" MIN. PLASTIC LAMINATE

CEILING TO TERMINATE INTO, SEE

7/A10.2 FOR MORE INFORMATION

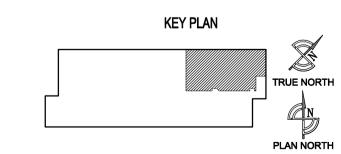
2.38 PLUMBING. SEE PLUMBING DRAWINGS

SLOPED SHIELD COVER OVER

FOR MORE INFO.

TRIM PIECE AT TOP OF CABINETS FOR

- 3. PROVIDE SIDE SPLASH AT WALL AT COUNTERTOPS WITH BACKSPLASHES AND SINKS. DIMENSIONS ARE FACE TO FACE (NOMINAL) OF FINISH MATERIAL, UNLESS NOTED OTHERWISE.
- 5. BASE FINISH MATERIAL AND ELECTRICAL DEVICES ARE NOT INDICATED FOR DRAWING
- 6. SEE SHEET A8.5 FOR COUNTERTOP, CABINETRY, AND INSTALLATION DETAILS.

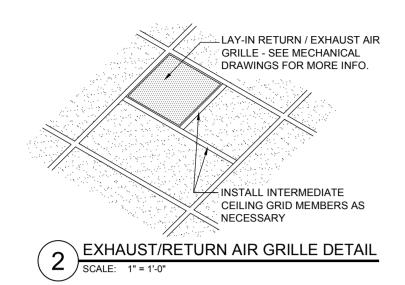


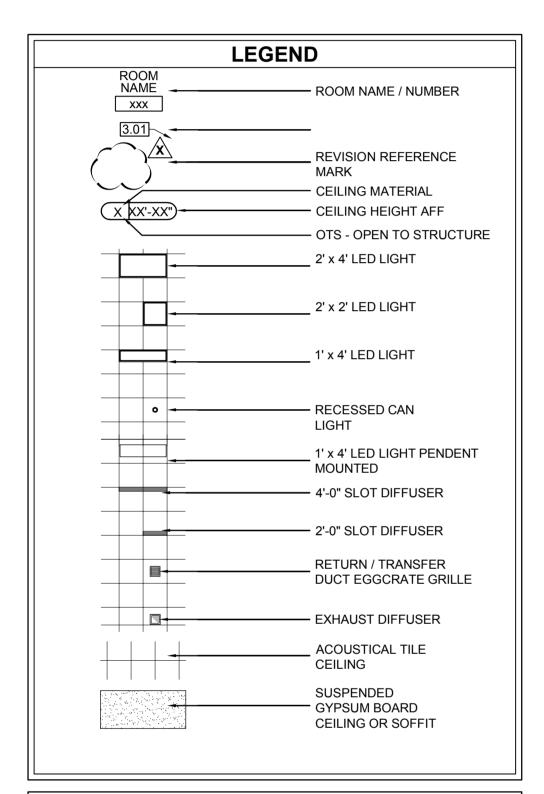
Drafted By: Checked By: JTG AJVDate Drafted: 03/15/2017

INTERIOR ELEVATIONS

A8.1

SCALE: 1/4" = 1'-0"

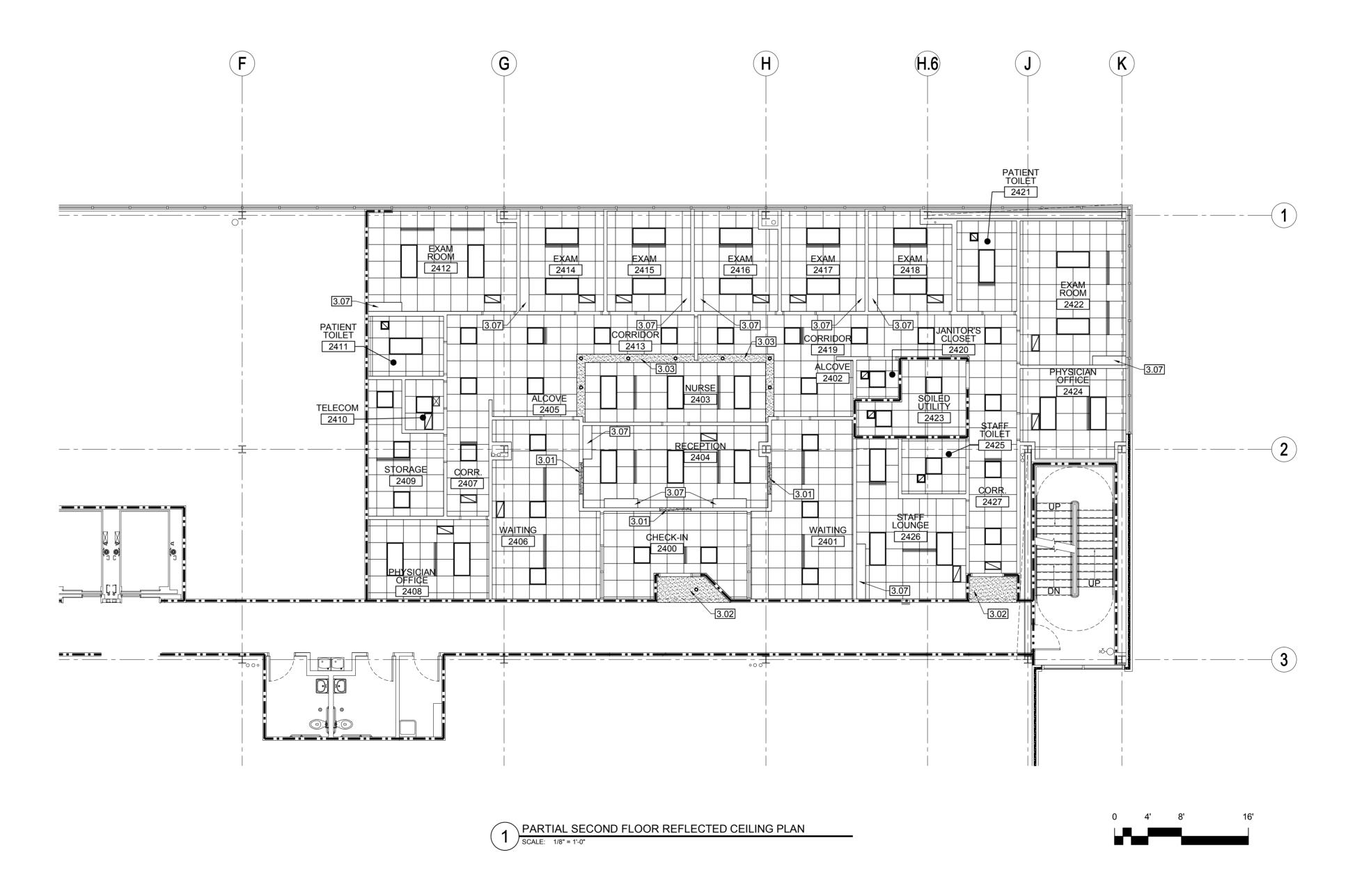




GENERAL NOTES

- 1. ALL ACOUSTICAL CEILING TILE HEIGHT SHALL BE 8'-0" UNLESS NOTED OTHERWISE.
- 2. ALL ACOUSTICAL CEILING TILE HEIGHT IN EXTERIOR/PERIMETER ROOMS WITH WINDOWS SHALL BE 8'-1" UNLESS NOTED OTHERWISE TO BE COORDINATED WITH WINDOW BLINDS INSTALLATION.
- 3. MECHANICAL CONTRACTOR RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT A COMPLETE, OPERATIONAL HEATING, VENTILATION, AND AIR CONDITIONING SYSTEM FOR THE ENTIRE PROJECT AS SHOWN ON THESE DRAWINGS. OBTAIN ALL PERMITS, FEES, AND ANY OTHER APPURTENANCES REQUIRED BY LOCAL JURISDICTIONS TO THE EXECUTION OF THE CONTRACT.
- 4. CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURES WILL FIT WITHIN GYPSUM BOARD SOFFITS PRIOR TO COMPLETION OF ROUGH FRAMING.
- 5. CEILING GRID SYSTEM SHALL BE CENTERED IN ROOM IN BOTH DIRECTIONS UNLESS NOTED/INDICATED OTHERWISE.
- 6. CEILING GRID SHALL BE LAID OUT SUCH THAT NO CEILING TILES MEASURE LESS THAN 3" IN WIDTH.
- 7. ALL EXISTING CEILINGS RECEIVING NEW FINISHES SHALL BE PATCHED AND REPLACED TO MATCH EXISTING.

	KEY NOTES
3.01	6'-10" GYPSUM BOARD SOFFIT
3.02	7'-2" GYPSUM BOARD SOFFIT
3.03	7'-2" GYPSUM BOARD HEADER
3.04	7'-10" GYPSUM BOARD HEADER
3.05	7'-10" GYPSUM BOARD SOFFIT
3.06	7'-0" GYPSUM BOARD SOFFIT
3.07	AREA OF CEILING OPEN WHERE ACT GRID TERMINATES INTO PLAM UPPER CABINETS. SEE ELEVATIONS AND DETAIL 7/A10.2 FOR MORE INFORMATION



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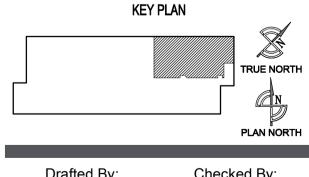
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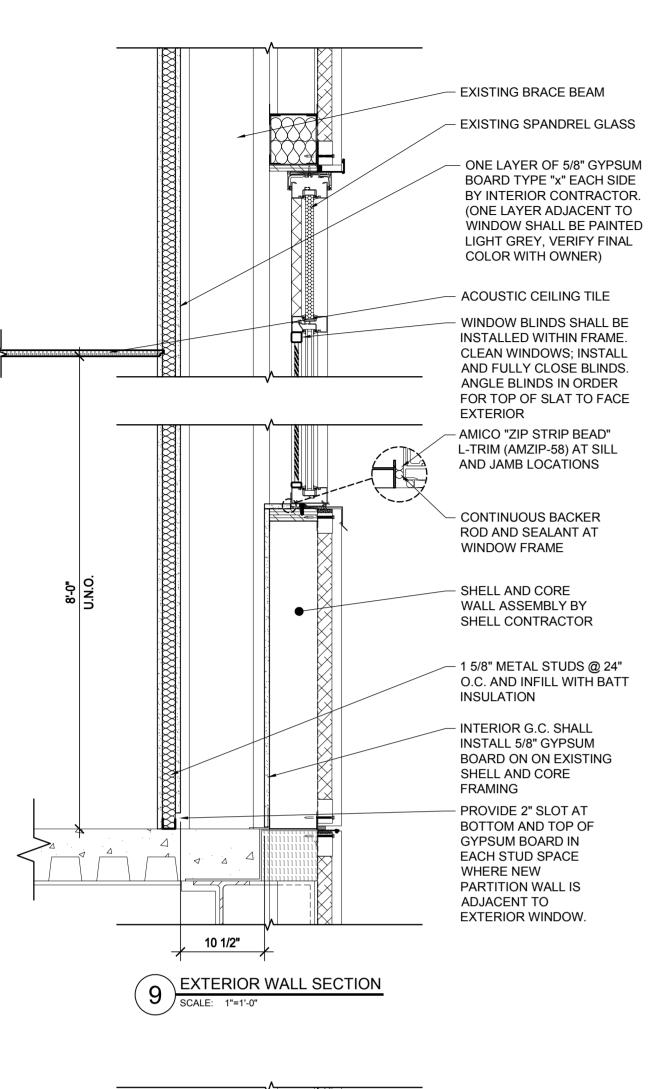


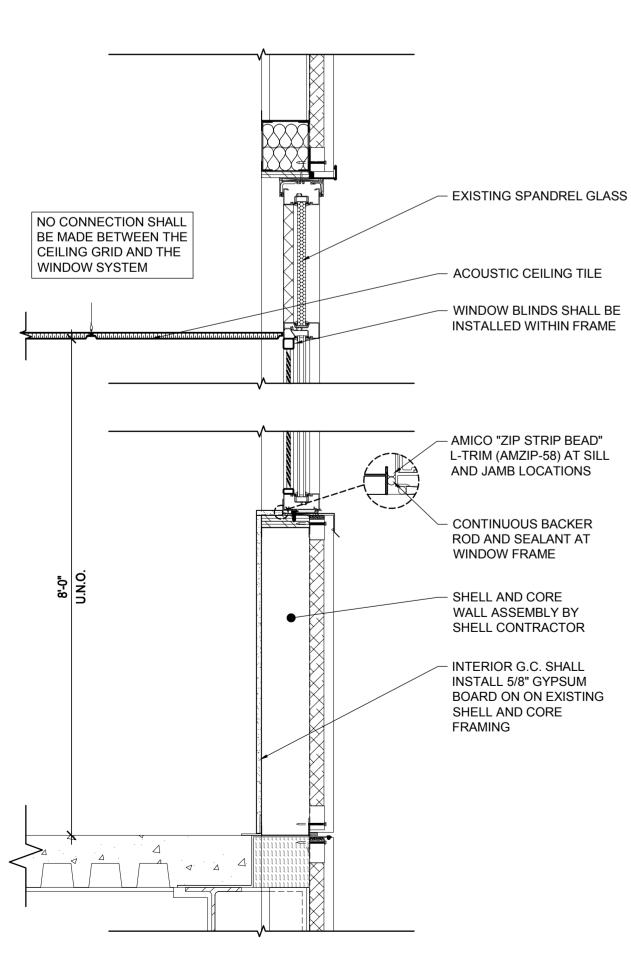
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Date Drafted: 03/15/2017

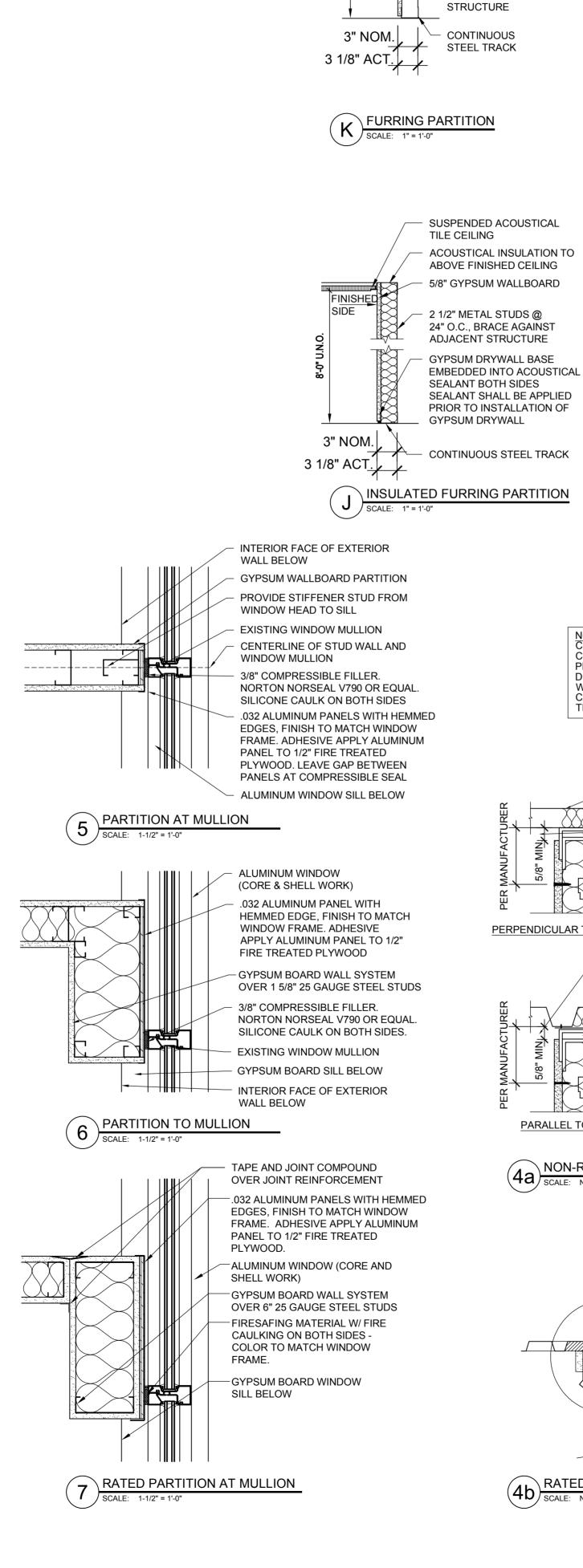
PARTIAL SECOND
FLOOR REFLECTED
CEILING PLAN
A9.1

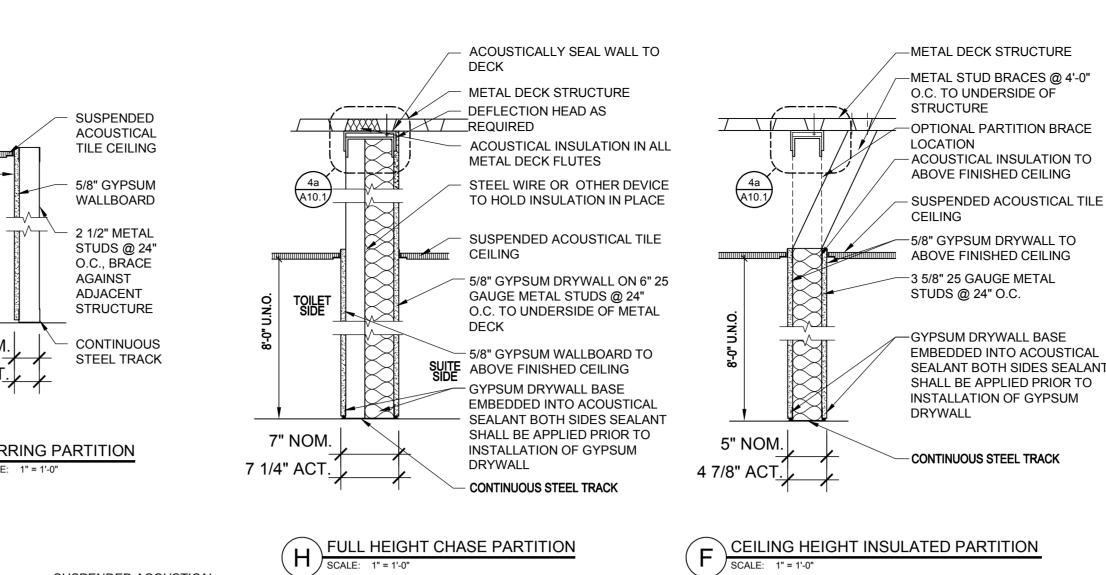
SCALE: 1/8" = 1'-0"

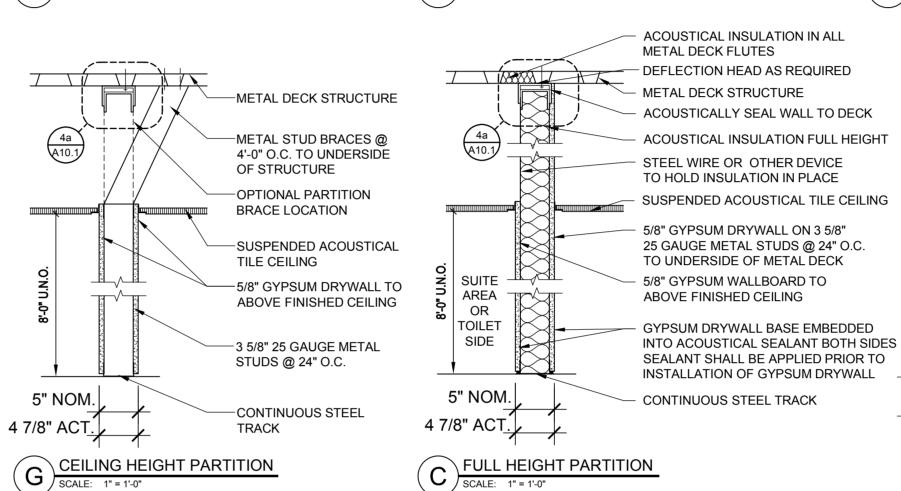




\ EXTERIOR WALL SECTION







CONTRACTOR SHALL NOTE FLOOR TO FLOOR HEIGHTS THROUGHOUT THE BUILDING, THE METAL STUD CONTRACTOR AND/OR METAL STUD SUPPLIER SHALL VERIFY ALL GAUGE OF STUDS AND REQUIRED SPACING PRIOR TO FABRICATION AND INSTALLATION. ALL INTERIOR METAL STUDS SHALL MEET OR EXCEED THE REQUIRED DEFLECTION LIMIT OF L/360 AND LATERAL LOAD OF 5 PSF. DEFLECTION LIMIT AND LATERAL LOAD OF INTERIOR WALLS TO RECEIVE FINISHES/ WALL PANELING TO BE EVALUATED BY STUD SUPPLIER TO ENSURE METAL STUDS CAN ACCOMMODATE FINISHES. THE ABOVE SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR DURING THE BIDDING PROCESS.

TOP OF METAL DECK

ACOUSTICAL INSULATION

BOTTOM OF METAL DECK

- DEFLECTION GAP (VERIFY W/ STRUCTURAL ENGINEER)

SLOTTED CEILING RUNNER

OR DEFLECTION CHANNEL

REFER TO PARTITION TYPE

FOR GYPSUM BOARD AND

(VERIFY W/ STRUCTURAL ENGINEER)

2" 20 GA STEEL STRAP @ INTERVAL PER

INSTALLATION REQUIREMENTS AS REQUIRED

CEILING RUNNER MANUFACTURER'S

DEFLECTION CHANNEL (2" DEEP MIN.)

DO NOT SCREW GYPSUM BOARD TO

METAL DECK STRUCTURE

FIRE SAFING.

SEALANT.

HEAD

\ RATED DEFLECTION HEAD PARALLEL TO DECK

DEFLECTION

AS REQUIRED

- FIRE SAFING INSULATION IN ALL

JOINT PROFILE & ELASTOMERIC

SOUND ATTENUATION BLANKET

METAL DECK FLUTES. SEAL WALL TO DECK WITH FIRE STOP COATING

REFER TO PARTITION TYPE FOR GYPSUM

BOARD AND METAL STUD REQUIREMENTS

SLOTTED CEILING RUNNER OR

(2" DEEP MIN.)

DEFLECTION GAP

SLOTTED TRACK

SEE UL DETAIL FOR

HEAD OF WALL DETAIL

CORRESPONDING

TOP OF METAL DECK

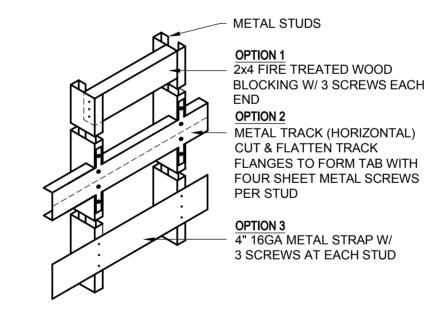
- ACOUSTICAL INSULATION

BOTTOM OF METAL DECK

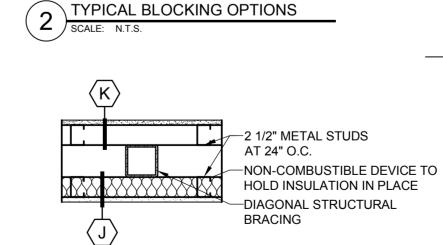
PERPENDICULAR TO METAL DECK METAL STUD REQUIREMENTS

PARALLEL TO METAL DECK

NON-RATED DEFLECTION HEAD

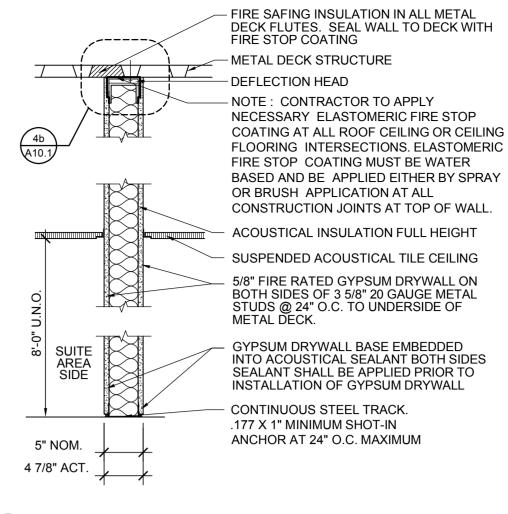


I" 16GA METAL STRAP W/ 3 SCREWS AT EACH STUD



INTERIOR WALL FRAME LOCATIONS $\langle \mathsf{K} \rangle$ INTERIOR ∕─2 1/2" METAL STUDS AT 24" O.C. -DIAGONAL STRUCTURAL BRACING -NON-COMBUSTIBLE DEVICE TO HOLD INSULATION IN PLACE EXTERIOR WALL FINISH - SEE WALL SECTIONS EXTERIOR WALL FRAME LOCATIONS

FINISH AT STRUCTURE BRACE FRAME

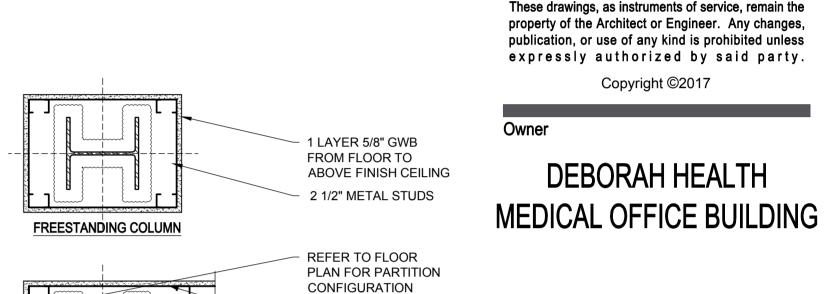


ONE HOUR FIRE RATED PARTITION MUST MEET UL DESIGN NO. U465 OR EQUAL

INTERIOR COLUMN

EXTERIOR COLUMN

\ COLUMN ENCLOSURE



1 LAYER 5/8" GWB

FROM FLOOR TO

ABOVE FINISH CEILING

-EXISTING EXTERIOR

1 LAYER 5/8" GWB

FROM FLOOR TO

2 1/2" METAL STUDS

ALUMINUM WINDOW FRAME

CONSTRUCTION BY SHELL

AMICO "ZIP-STRIP" L-TRIM

/ CORE CONTRACTOR

PRODUCT #38221220

- BACKER ROD AND

2 1/2" METAL STUDS

ABOVE FINISH CEILING

STEEL COLUMN - SEE

STRUCTURAL PLANS

1 LAYER 5/8" GWB

FROM FLOOR TO

SEALANT

6" MTL. STUDS AND

EXTERIOR WALL

ABOVE FINISH

CEILING

ENVELOPE

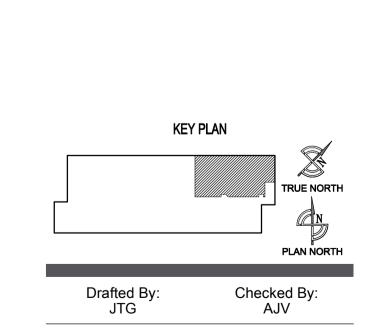
2 1/2" METAL STUDS



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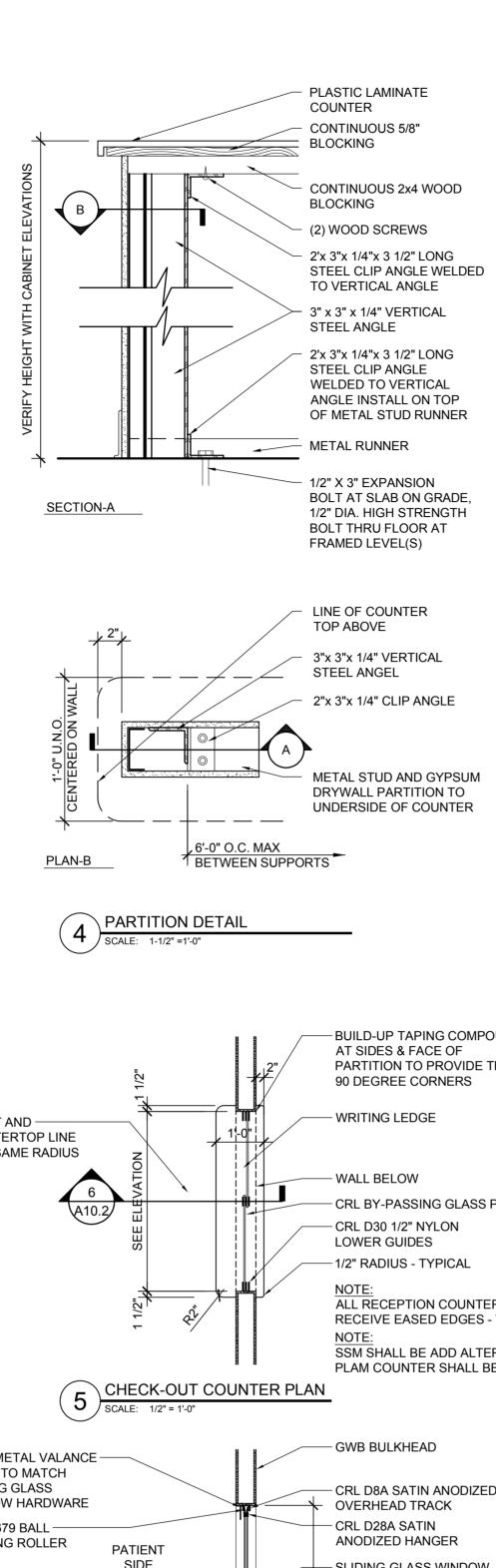


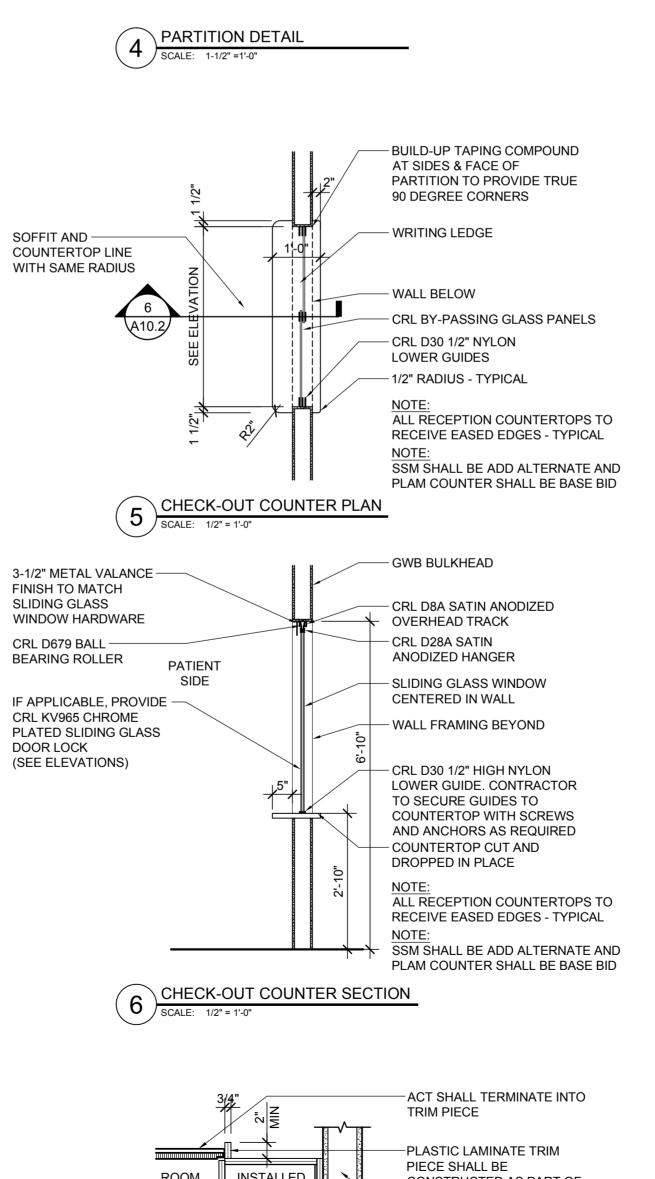
TYPICAL WALL TYPES AND DETAILS

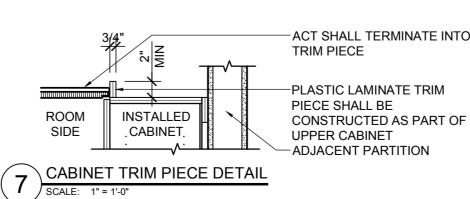
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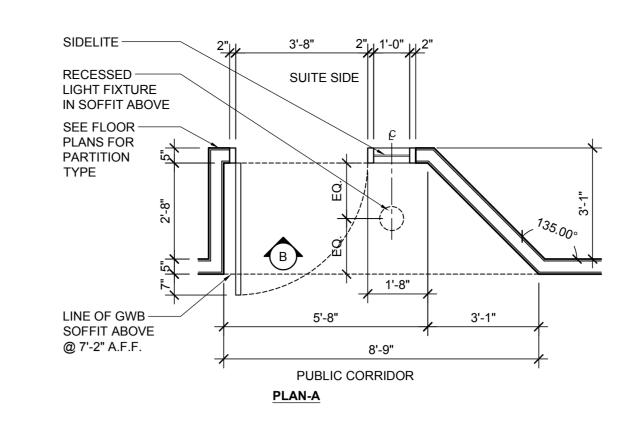
03/15/2017

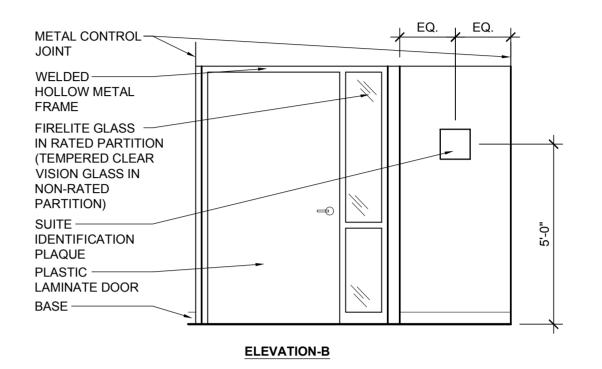
A10.1



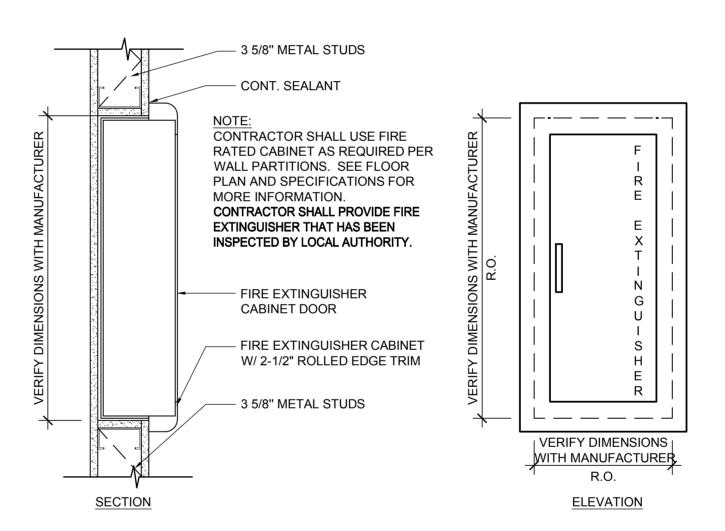




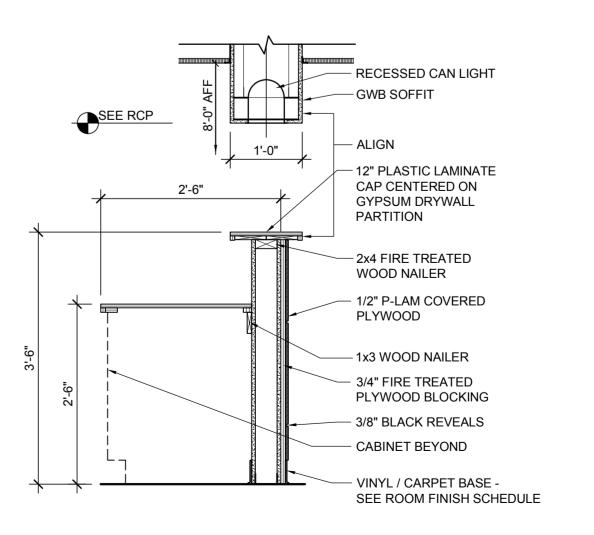




RECESSED SUITE ENTRY SCALE: 3/8" =1'-0"



FIRE EXTINGUISHER CABINET SCALE: 1-1/2" =1'-0"



COUNTER AT HALF-WALL SECTION

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

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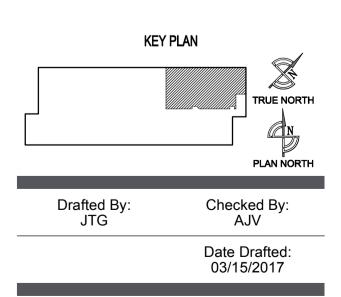


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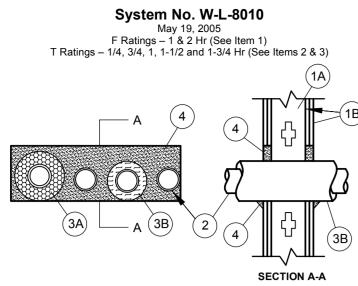
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INTERIOR DETAILS

A10.2

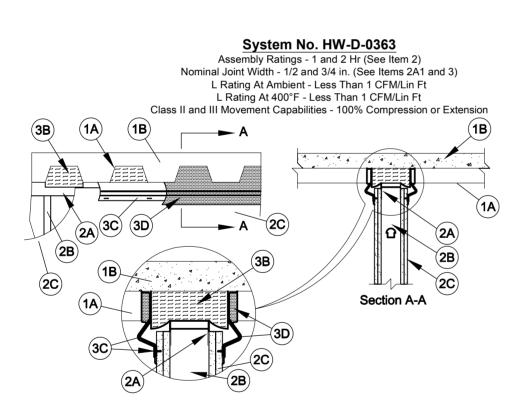


- Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features
- A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm to max 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC. Gypsum Board* - Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Max area of
- opening is 65-1/4 sq in. (421 cm2) with max dimension of 14-1/2 in. (368 mm). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly.
- Through Penetrants A max of four pipes, conduits or tubing to be installed within the opening. The space between pipes, conduits or tubing shall be min 1/2 in to max 1-5/16 in. (13 mm to max 33 mm). The space between pipes, conduits or tubing and periphery of opening shall be min 1-3/16 in. (30 mm) for uninsulated copper tubes and copper pipes (Items 2C and 2D) and 0 in. (point contact) for insulated copper tubes and copper pipes and uninsulated steel pipes and conduit (Item 2B). The space between pipes, conduits or tubing and periphery of opening shall be max 1-5/16 in. (33 mm). Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
- A Steel Pine Nom 2 in (51 mm) diam (or smaller) Schedule 5 (or heavier) steel pine Conduit - Nom 2 in. (51 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
- Copper Tubing Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing. Copper Pipe – Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.
- When uninsulated steel pipe or conduit is used, T Rating is 3/4 hr and 1-1/2 hr for 1 and 2 hr rated assemblies, respectively When uninsulated copper tubing or pipe is used, T Rating is 1/4 hr for both 1 and 2 hr rated assemblies
- 3A. Pipe Covering* (Optional) Nom 1 in. (25 mm) hollow cylindrical heavy density glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product.
- See Pipe and Equipment Covering Materials* (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used
- When pipe covering is used on all through penetrants, T Rating is 1 hr and 1-3/4 hr for 1 and 2 hr rated assemblies, respectively. 3B. **Tube Insulation – Plastics**# (Optional) – Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.
- See Plastics (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used. When tube insulation is used on all through penetrants, T Rating is 3/4 hr and 1-1/2 hr for 1 and 2 hr rated assemblies, respectively.
- Fill, Void or Cavity Material* Caulk or Sealant Min 5/8 in. or 1-1/4 in. (16 mm or 32 mm) thickness of fill material, for 1 or 2 hr walls, respectively, applied within the annulus, flush with both surfaces of wall. At point contact locations, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the wall/pipe and wall/pipe insulation interface on both surfaces of wall. 3M COMPANY- CP 25WB+, IC 15WB+ caulk or FB-3000 WT sealant
- Fill, Void or Cavity Materials* Wrap Strip (Not Shown) Min one layer of 2 in. (51 mm) wide, nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, required only when tube insulation (Item 3B) is used in 2 hr rated assemblies. Wrap strip tightly wrapped around tube insulation (foil side exposed) within the opening on both sides of the wall, flush with both surfaces of the wall assembly **3M COMPANY - FS-195+**

#Bearing the UL Recognized Component Mark *Bearing the UL Classification Marking

This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.





- 1. Floor Assembly The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. Steel Floor and Form Units* Max 3 in. (76 mm) deep galv steel fluted floor units. B. Concrete - Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.
- 1A. Roof Assembly (Not Shown) As an alternate to the floor assembly (Item 1), a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly fire rating of the roof assembly shall be equal to or greater than the hourly fire rating of the wall assembly. The roof assembly shall include the following construction features:
- A. Steel Roof Deck Max 3 in. (76 mm) deep galv steel fluted roof deck.
- B. Roof Insulation Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.
- 2. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. Steel Floor and Ceiling Runners Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs. When deflection channel (Item 3A) is used, flange height of ceiling runner is to be equal to or greater than flange height of deflection channel and the ceiling runner is to nest within the deflection channel with a min 3/4 in. (19 mm) gap maintained between the top of the ceiling runner and the top of the deflection channel. When deflection channel is not used, flange height of ceiling runner shall be min 1 in. (25 mm) greater than nom joint width. Ceiling runner secured to valleys of steel floor or roof deck, perpendicular to steel deck direction, with steel fasteners or welds spaced max 24 in. (610 mm) OC.
- A1. Light Gauge Framing* Slotted Ceiling Runner As an alternate to the ceiling runner in Item 2A., slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner installed perpendicular to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used. Nominal joint size is 1/2 in. when slotted ceiling runner is used.
- **CALIFORNIA EXPANDED METAL PRODUCTS CO CST**

BRADY CONSTRUCTION INNOVATIONS INC.

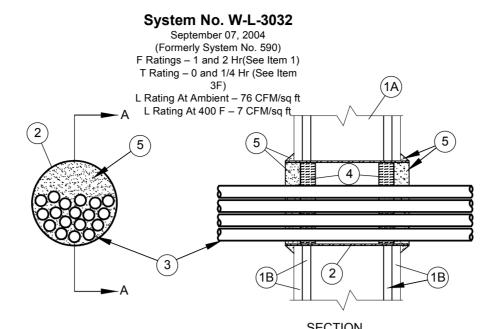
DBA SLIPTRACK SYSTEMS - SLP-TRK

THE STEEL NETWORK INC - VertiTrack VT, series, 250VT, 362VT, 400VT, 600VT and 800VT

- A2. Light Gauge Framing* Vertical Deflection Ceiling Runner As an alternate to the ceiling runner in Items 2A and 2A1., vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Vertical deflection ceiling runner installed perpendicular to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not
- THE STEEL NETWORK INC VertiTrack VTD362, VTD400, VTD600 and VTD800
- A3. Light Gauge Framing* Slotted Ceiling Runner As an alternate to the ceiling runner in Items 2A, 2A1, 2A2 and 2A3, slotted ceiling runner to consist of galv steel channel with 3-1/4 in. (83 mm) high slotted flanges sized to accommodate steel studs (Item 2B). Ceiling runner installed perpendicular to direction of fluted steel floor or roof deck and secured to valleys with steel fasteners spaced max 24 in. (610 mm) OC. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.

BRADY CONSTRUCTION INNOVATIONS INC,

DBA SLIPTRACK SYSTEMS - SLPTRK325



1. Wall Assembly – The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the

- following construction features: A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC
- Gypsum Board* 5/8 in. thick, 4ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6 in. The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a
- 2. Steel Sleeve Cylindrical sleeve fabricated from min 0.019 in. thick (28 gauge) galv sheet steel and having a min 2 in. lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus approx 7/8 to 1 in. such that, when installed, the ends of the sleeve will project approx 7/16 to 1/2 in. beyond the surface of the wall on each side of the wall assembly. Sleeve installed by coiling the sheet steel to diam smaller than the max 6 in. diam through openings, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum wallboard layers.
- 3. Cables Aggregate cross-sectional area of cables in opening to be min 8 percent to max 36 percent of the cross-sectional area of the sleeved opening in wall. Cables to be rigidly supported on both sides of wall assembly. The space between cables and periphery of opening shall be min 1/4 in. to max 2-1/2 in. Min separation between Armored Cables and/or Metal-Clad Cables (Item 3F) and between Armored Cables and/or Metal-Clad Cables and all other types of cables shall be 1/4 in. Any combination of the following types and sizes
- of copper conductor cable may be used: A. Max 350 kcmil single conductor power cables; cross-linked polyethylene (XLPE) insulation.
- Max 200 pair No. 24 AWG conductor telecommunication cables; polyvinyl chloride (PVC) insulation and jacket. Max 7/C No. 2/0 AWG multi conductor power and control cables; XLPE or PVC insulation with XLPE or PVC jacket.
- Max 3/C No. 2/0 AWG cables: PVC insulation and jacket.
- Max 6/94 Fiber Optic (F.O.) cable; PVC insulation and jacket. F. Max four copper conductor No. 2/0 AWG (or smaller) aluminum or steel Armored Cable or Metal-Clad Cable Classified as a Through Penetrating Product. The T Rating is 0 Hr when armored cables or metal-clad cables are used. See Through Penetrating Product* (XHLY) Category in the Fire Resistance Directory for names of manufacturers. Any aluminum
- 4. Packing Material Min 1 in. thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1 in. from end of steel sleeve (min 1/2 in. from surface of gypsum wallboard)

or steel. Armored Cable or Metal-Clad Cable Classified as a Through Penetrating Product meeting the above specifications may be

5. Fill, Void or Cavity Material* - Caulk or Sealant - Min 1 in. thickness of fill material applied within the annulus, flush with both ends of the steel sleeve. A nom 1/4 in. diam continuous bead of caulk shall be applied around the circumference of the steel sleeve at its egress from the gypsum wallboard layers on both sides of the wall assembly

*Bearing the UL Classification Marking This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant



- B. Studs Steel studs to be min 3-1/2 in. (89 mm) wide. Studs cut min 3/4 in. (19 mm) less in length than assembly height with bottom nesting in and secured to floor runner. When deflection channel (Item 3A) is used, steel study attached to ceiling runner with sheet metal screws located 1 in. (25 mm) below the bottom of the deflection channel. When deflection channel is not used, study to nest in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC
- Gypsum Board* Gypsum board sheets installed to a min total thickness of 5/8 in. (16 mm) or 1-1/4 in. (32 mm) on each side of wall for 1 and 2 hr fire rated assemblies, respectively. Wall to be constructed in the individual U400 or V400 Series Design in the UL Fire Resistance Directory, except that a max 3/4 in. (19 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel floor or roof deck. The screws attaching the gypsum board to the studs along the top of the wall shall be located 1 in. (25 mm) below the bottom of the ceiling runner. No gypsum board attachment screws shall be driven into the ceiling runner or into the optional deflection channel.

The hourly fire rating of the joint system is equal to the hourly fire rating of the wall.

Joint System - Max separation between bottom of floor or roof deck and top of gypsum board (at time of installation of joint system) is 3/4 in. (19 mm) or 1/2 in. (13 mm) when Item 2A1 is used. The joint system is designed to accommodate a max 100 percent compression or extension from it's installed width. The joint system shall consist of forming and fill materials, with or without a deflection channel (Item 3A), as follows:

A. Deflection Channel - (Optional, Not Shown)-Max 2 in. (51 mm) deep min 25 gauge galv steel channel sized to accommodate ceiling runner (Item 2A). Deflection channel secured to valleys of steel floor or roof deck, perpendicular to steel deck direction, with steel fasteners or welds spaced max 24 in. (610 mm) OC. The ceiling runner is installed within the deflection channel to maintain a min 3/4 in. (19 mm) gap between the top of the ceiling runner and the top of the deflection channel. The ceiling runner nests inside the deflection channel without attachment.

Forming Material* - Nom 4 pcf (64 kg/m3) mineral wool batt cut to the shape of the steel deck flute with a height 1 in. (25 mm) greater than height of flutes and with a length 3/4 to 1 in. (19 to 25 mm) greater than the overall thickness of the wall assembly. Mineral wool batt compressed and installed into each flute above the ceiling runner with its ends projecting 3/8 to 1/2 in. (10 to 13 mm) beyond the wall surfaces.

FIBREX INSULATIONS INC - FBX Safing Insulation OWENS CORNING HT INC, DIV OF OWENS

CORNING - Paroc Safing Insulation ROCK WOOL MANUFACTURING CO - Delta Board

ROCKWOOL MALAYSIA SDN BHD - Safe

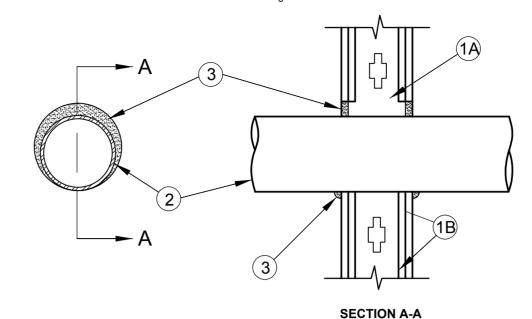
ROXUL INC - Safe

- C. Forming Material* Nom 3/16 in. (4.8 mm) thick by 4 in. (102 mm) high joint forming material profile installed on both sides of the wall assembly. Profile installed by first marking a line across the top of the wall 3 in. (76 mm) below the bottom plane of the steel floor or roof deck valleys. Joint profile material positioned with its top edge against both the underside of the steel deck and the end of the mineral wool batt plugs (Item 3B) and with its bottom edge on the line scribed on the wall assembly. Bottom of the joint profile attached to gypsum board with nom 1/2 in. (13 mm) long steel staples spaced not greater than 8 in. (203 mm) OC. Adjoining lengths of profile to overlap approx 3/4 in. (19 mm) at shiplapped ends.
- D. Fill, Void or Cavity Material* Sealant Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material spray applied to completely cover forming materials on each side of the wall with a min 1/2 in. (13 mm) overlap onto gypsum board and steel deck on both sides of the

SPECIFIED TECHNOLOGIES INC - SpecSeal AS200 Elastomeric Spray *Bearing the UL Classification Mark

SPECIFIED TECHNOLOGIES INC - SpecSeal Speed Flex Joint Profile

System No. W-L-1146 September 03, 2004 F Ratings – 1 and 2 Hr (See Item 1) T Rating – 0 Hr



- 1. Wall Assembly The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 in. to 6 in. (102 to 152 mm) wider and 4 in. to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is centered in the opening, a 2 in. to 3 in. (51 mm to 76 mm) clearance is present between the penetrating item and the framing in all four sides.
- Gypsum Board* The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

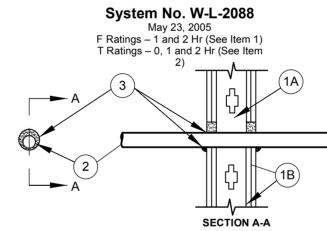
- 2. Through Penetrant One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. (0 mm to 51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or
- Steel Pipe Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. Iron Pipe Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
- Conduit Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel
- Copper Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- 3. Fill, Void or Cavity Materials* Caulk or Sealant Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. (13 mm) diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

Bearing the UL Classification Mark

This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory





- Wall Assembly The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following
- construction features: A. Studs – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 in. by 4 in. (51 mm by
- 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Gypsum Board* - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design, Diam of
- opening shall be 7/8 in. (22 mm) larger than the outside diam of nonmetallic pipe or conduit (Item 2). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrants One nonmetallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space for max 1-1/4 in. (32 mm) diam pipe or conduit shall be min 0 in. (point contact) to max 7/8 in. (0 mm to max 22 mm). The annular space for pipe or conduit larger than nom 1-1/4 in. (32 mm). diam shall be min 1/2 in. to max 1 in. (13 mm to max 25 mm). Pipe or conduit to be rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used: A. Polyvinyl Chloride (PVC) Pipe - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core PVC pipe for use in
- closed (process or supply) or vented (drain, waste or vent) piping system B. Polyvinyl Chloride (PVC) Pipe - Nom 3 in. (76 mm) diam (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or
- Chlorinated Polyvinyl Chloride (CPVC) Pipe Nom 3 in. (76 mm) diam (or smaller) SDR 11 CPVC pipe for use in closed (process or supply) piping systems.
- Rigid Nonmetallic Conduit++ Nom 3 in. (76 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No 70).
- Electrical Nonmetallic Tubing (ENT)++ Nom 1 in. (25 mm) diam (or smaller) ENT formed of PVC, installed in accordance with Article 331 of the National Electrical Code (NFPA No. 70)

See Rigid Nonmetallic Conduit (DZKT) and Electrical Nonmetallic Tubing (FKHU) categories in the UL Electrical Construction

Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom. 2 in. (51 mm) diam (or smaller) Schedule 40 solid core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. The hourly T Rating is dependent on the hourly rating of the wall assembly, the pipe or conduit size and whether the pipe is intended for use as a closed or vented system, as shown in the following table.

Nom Pipe Rating	Wall Assembly	Closed	,
1/2 to 3 (13 to 76)	Rating Hr	Vented (v)	1 ^{Hr}
1/2 to 1-1/4 (13 to 32)	1	V	
1/2 to 1-1/4 (13 to 32)	2	С	
² /2 to 1-1/4 (13 to 32)	2	V	
1 2 (51)	1	v	0
2 (51)	2	V	0

3. Fill, Void or Cavity Materials* - Caulk, Sealant or Putty - Min thickness of 5/8 in. and 1-1/4 in. (16 mm and 32 mm) of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe or conduit and periphery of the opening, flush with both surfaces of wall assembly. At the point contact location between pipe or conduit and gypsum board, a min 1/2 in. (13 mm) diam bead of caulk or putty shall be applied at the pipe or conduit/wallboard interface on both surfaces of wall assembly.

> 3M COMPANY - CP 25WB+, IC 15WB+ caulk, FB-3000 WT sealant or MP+ Stix putty (Note: CP 25WB+ not suitable for use with CPVC pipes.)

+++Bearing the UL Listing Mark. *Bearing the UL Classification Marking

Equipment Directory for names of manufacturers

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DEBORAH HEALTH MEDICAL OFFICE BUILDING



DHL CLINICAL

SUITE #240

Revisions

Issued For: No. Description 01 Issued for Bid

100% Construction Document Set 03/15/17 02 Issued for Permit 100% Construction Document Set 07/20/17

Date

KEY PLAN TRUE NORTH PLAN NORTH Drafted By: Checked By:

 AJV

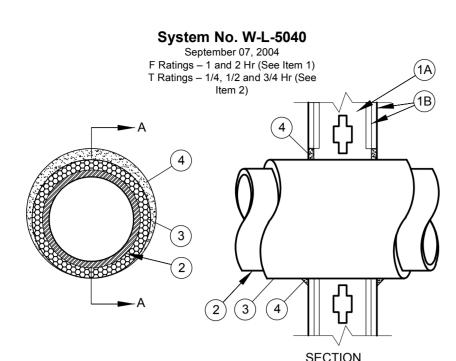
Date Drafted:

03/15/2017

JTG

PENETRATION **DETAILS**

SCALE: N.T.S



- 1. Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stuth wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

 A. Studs Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in.
- lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.

 B. **Gypsum Board*** Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening in wallboard layers is 7 in.

The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

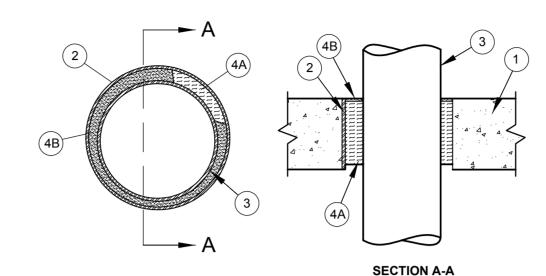
- Through Penetrants One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
- A. Steel Pipe Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. When steel pipe is used, T Rating is 3/4 hr.
 B. Copper Tubing Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. T Rating is 3/4 hr for copper tubing of nom 2 in.diam and smaller. For copper tubing greater than nom 2 in. diam, T Rating is 1/4 and 1/2 hr when installed in 1 and 2 hr rated walls, respectively.
- C. Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. T Rating is 3/4 hr for copper pipe of nom 2 in. diam and smaller. For copper pipe greater than nom 2 in. diam, T Rating is 1/4 and 1/2 hr when installed in 1 and 2 hr rated wall respectively.
- Pipe Insulation Plastics# Nom 3/4 in. thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The annular space between the insulated pipe and the edge of the through opening shall be min zero in. (point contact) to max 1-1/4 in.
- See **Plastics#** (QMFZ2) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
- 4. Fill, Void or Cavity Materials* Caulk or Sealant Min 5/8 in. thickness of caulk applied within the annular space, flush with each surface of wall. A min 1/2 in. diam bead of caulk shall be applied to the pipe insulation/ wallboard interface at the point contact location on both sides of wall.
 3M COMPANY CP 25WB+ caulk or FB-3000 WT sealant

*Bearing the UL Classification Marking

This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.



System No. C-AJ-1292 March 05, 2007 F Rating – 3 Hr T Rating – 0 Hr L Rating At Ambient – Less Than 1 CFM/sq ft L Rating At 400 F – 2 CFM/sq ft W Rating – Class 1



- Floor or Wall Assembly Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
 See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Sleeves (Optional) The following sleeves may be used:
 A. Metallic Sleeve Nom 6 in. (152 mm) diam (or smaller) steel Schedule 40 (or heavier) pipe cast or grouted into floor or wall assembly,
- flush with floor or wall surfaces. As an alternate, nom 6 in. (152 mm) diam (or smaller) sleeve fabricated from nom 0.019 in.

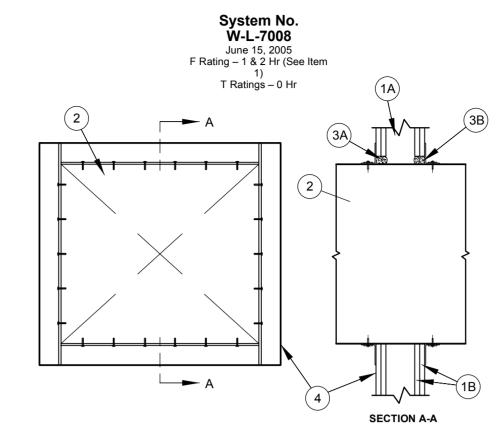
 (0.48 mm) thick galv steel cast or grouted into floor or wall assembly flush with floor or wall surfaces.
- B. **Nonmetallic Sleeve** Nom 6 in. (152 mm) diam (or smaller) Schedule 40 polyvinyl chloride (PVC) pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
- 3. **Through Penetrants** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space shall be min 1/2 in. (13 mm) to max 2-3/8 in. (60 mm) Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types of pipe, conduit or tubing may be used:

 A Steel Pipe New 4 in (103 mm) diam (or emplies) Schodule 10 (or bequire) steel pipe
- A. Steel Pipe Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Conduit Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or steel conduit.
- C. Copper Tubing Nom 3 in. (76 mm) diam (or smaller) Type M (or heavier) copper tubing.
 D. Iron Pipe Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
- Firestop System The firestop system shall consist of the following:
 A. Packing Material Min 3-3/4 in. (95 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form so that the width of the wool is compressed at least 50 percent. Packing material to be recessed from top surface of
- floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

 B. Fill, Void or Cavity Material* Sealant Min 1/4 in. (6 mm) thickness of sealant applied within the annulus, flush with the top surface of floor or with both surfaces of wall.

 3M COMPANY FB-1000 NS, FB-1003SL or FB-3000 WT

*Bearing the UL Classification Marking
This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.



- 1. **Wall Assembly** The 1 and 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following
- A. Studs Wall framing shall consist of steel channel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional 3-1/2 in. (89 mm) wide steel studs shall be used to completely frame opening.
- B. **Gypsum Board*** Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max size of opening to be 1216 sq in. (188.5 cm2) with a max dimension of 38 in. (965 mm).

 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- 2. **Through Penetrant** Nom 36 by 30 in. (914 by 762 mm) (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed either concentrically or eccentrically within the firestop system. An annular space of min 0 in. (0 mm) (point contact) to max 2 in. (51 mm) is required within the firestop system. Steel duct to be rigidly supported on both sides of floor or wall assembly.
- Firestop System The details of the firestop system shall be as follows:
 A. Packing Material (Optional) Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction-fit into annular space for 2 hr rated wall assemblies only. Packing material to be recessed from both surfaces of wall to accommodate the
- required thickness of fill material (Item 3B).

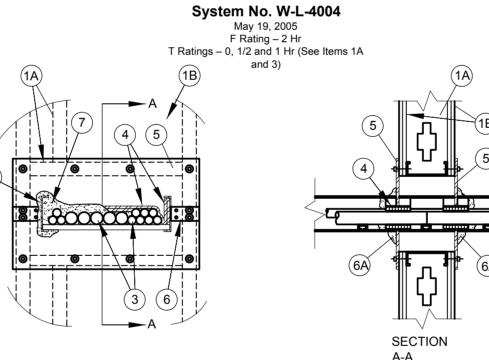
 B. Fill, Void or Cavity Material* Caulk or Sealant Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At the point contact location between duct and wallboard, a min 1/4 in. (6 mm) diam bead of sealant shall be applied at the wallboard/duct interface on both surfaces of wall assembly.

 3M COMPANY CP 25WB+ caulk or FB-3000 WT sealant
- C. **Retaining Angles** Min 16 gauge galv steel angles sized to lap duct a min of 2 in. (51 mm) and lap wall surfaces of a min of 1 in. (25 mm). Angles attached to duct on both sides of wall with min 1/2 in. (13 mm) long, No. 10 (or larger) sheet metal screws spaced a max of 1 in. (25 mm) from each end of duct and spaced a max of 6 in. (152 mm) OC.

*Bearing the UL Classification Marking
This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.

3 HVAC DUCTS - WALL DETAIL SCALE: N.T.S.

1 HEAD OF WALL - WALL DET SCALE: N.T.S.



- 1. **Wall Assembly** The fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
- A. Steel Studs Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC. The opening in the wall to accommodate the cable tray (Item 2) shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be min 1/2 in. (13 mm) tomax 6 in. (152 mm) wider and higher than the width and height of the cable tray such that, when the cable tray is centered in the opening, a 1/4 to 3 in. (6 to 76 mm) clearance is present between the cable tray and the framing on all four sides. When the clearance between the cable tray and the framing is less than 2 in. (51 mm), the T Rating is 0 hr.
- B. Gypsum Board* Two layers of nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design.
- Cable Tray Max 24 in. (610 mm) wide by max 4 in. (102 mm) deep open ladder steel or aluminum cable tray. Cable tray
 to consist of channel-shaped side-rails with boxed channel rungs spaced 9 in. (229 mm) OC. Cable tray centered in framed
 opening and rigidly supported on both sides of wall assembly.
- 3. Cables Aggregate cross-sectional area of cables in cable tray not to exceed 32 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
- A. Max 350 kcmil single-conductor power cables; cross-linked polyethylene (XLPE) insulation.
 B. Max No. 2/0 AWG multiconductor power and control cables; XLPE insulation, XLPE or polyvinyl chloride (PVC) jacket.
 C. Max No. 12 AWG multiconductor power and control cables; XLPE insulation, XLPE or PVC jacket.
 D. Max 7C No. 12 AWG (or smaller) multi conductor power and control cables; XLPE insulation, XLPE or polyvinyl
- chloride (PVC) jacket.

 Max No. 18 AWG RG 6/U coaxial cable with PVC insulation and jacket.

When cables A and B are used in steel cable tray, T Rating is 0 hr.
When cables A and B are used in aluminum cable tray, T Rating is 1/2 hr.
When cables C, D, E and F are used in steel cable tray, T Rating is 1/2 hr.
When cables C, D, E and F are used in aluminum cable tray, T Rating is 1 hr.

F. Max 1-10/125 Fiber Optic (F.O.) cable with PVC insulation and jacket.

Fill, Void or Cavity Materials* – Intumescent Sheet – Rigid aluminum foil-faced sheet with galv steel sheet backer. Sheets cut to tightly follow the contours of the cables around the entire perimeter of the cable tray and cable fill. Sheets cut to lap a min of 2 in. (51 mm) on the wall on all sides of the opening on both sides of the wall. Prior to installation, a min 1/4 in. (6 mm) diam bead of caulk (Item 7) or a nom 1/8 by 1/2 in. (3.2 by 13 mm) ribbon of putty (Item 7A) shall be applied as a gasket approx 1 in. (25 mm) from and on all sides of the through opening. Sheet to be installed with the galv steel sheet backer exposed (aluminum foil facing against wall surface) and secured to steel framing, through gypsum board layers, with min 1/4 in. (6 mm) diam by 2-1/4 in. (57 mm) long steel screws in conjunction with min 1-1/4 in. (32 mm) diam steel fender washers. Max spacing of fasteners not to exceed 6 in. (152 mm) with additional fasteners located on each side of batted seams or slits made to permit installation of the sheet around the cable tray.

3M COMPANY – Type CS-195+

5. **Steel Cover Strip** – Min 2 in. (51 mm) wide strip of min 0.020 in. (.51 mm) thick (26 gauge) galv steel centered over entire length of each butted seam or slit made in the intumescent sheet (Item 5). Prior to installation of the steel strip, the seam or slit in the intumescent sheet shall be covered with a nom 1/4 in. (6 mm) diam bead of caulk (Item 7) or a nom 1/8 by 1/2 in. (3.2 by 13 mm) ribbon of putty (Item 7A). Steel cover strip secured to galv steel sheet backer of intumescent sheet with steel sheet metal screws or steel rivets spaced max 3 in. (76 mm) OC on each side of seam or slit.

Fill, Void or Cavity Materials* – Graphite Seal, Caulk, Sealant or Putty – One layer of 1/2 in. x 1/16 in. (13 mm by 1.6 mm) adhesive backed graphite intumescent seal positioned under intumescent sheet around entire perimeter of through opening or min 1/4 in. (6 mm) diam continuous bead of caulk or putty applied to edge of intumescent sheet at its interface with surface of floor or wall around entire perimeter of through opening. Caulk applied to fill all interstices between cables and between cables and wrap strip (Item 4). Caulk depth to be min 2 in. (51 mm) within confines of wrap strip on both sides of floor or wall assembly. Generous application of caulk to be applied around the base of the cable tray side-rails and contour applied wrap strips at their egress from the intumescent sheet on both sides of the wall assembly. Caulk also applied to cover all exposed edges of wrap strips to a min thickness of 1/8 in. (3.2 mm).

3M COMPANY – E-FIS or Ultra GS seal, CP 25WB+ caulk, MP+ Stix putty, IC 15WB+ caulk or FB-3000 WT sealant

6A. Fill, Void or Cavity Materials* – Putty – As an alternate to the caulk (Item 6) when steel cable tray is used, nom 1/4 in. (6 mm) thick by 2 in. (51 mm) wide strips of moldable putty shall be applied to follow the contours of the cable fill on the top and bottom of the cable tray prior to installation of the intumescent sheets (Item 5). Moldable putty strips installed to project approx 7/8 in. (22 mm) beyond each face of the intumescent sheet on each side of the wall assembly. After installation of the intumescent sheets, putty pressed into cable fill and against intumescent sheet to fill all openings. Nom 1/2 in. (13 mm) diam "ropes" of putty applied around cable tray side-rail members at their egress from the intumescent sheet and pressed into the intersections. A min 1/8 in. (3.2 mm) thickness of putty shall be applied to cover the short lengths of wrap strip installed to fill the channel of the steel cable tray side-rails.

*Bearing the UL Classification Marking
This material was extracted and drawn from the 2006 edition of the UL Fire Resistance Directory.

3M COMPANY - MP+ Stix

2 INSULATED PIPES - WALL DETAIL SCALE: N.T.S.

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DEBORAH HEALTH MEDICAL OFFICE BUILDING



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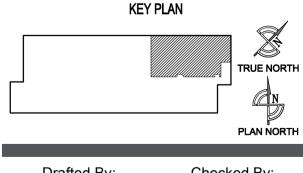
SUITE #240

Revisions

Issued For:
No. Description Date

01 Issued for Bid
100% Construction Document Set 03/15/17

02 Issued for Permit 100% Construction Document Set 07/20/17



Drafted By:
JTG

Checked By:
AJV

Date Drafted:
03/15/2017

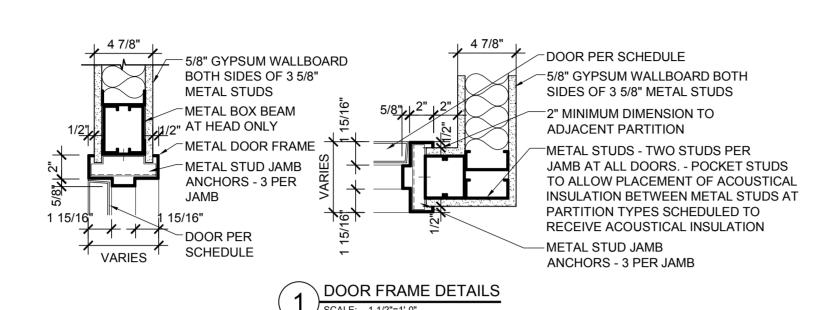
PENETRATION DETAILS

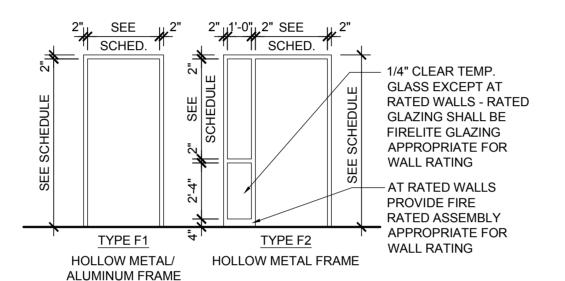
A10.7

SCALE: N.T.S.

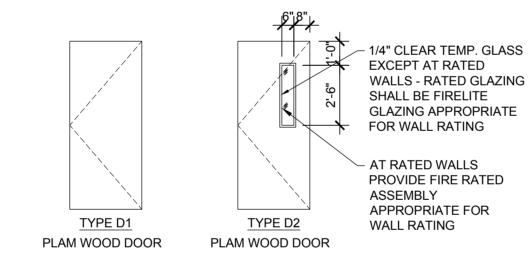
DOOR SCHEDULE GENERAL NOTES CONTRACTOR SHALL FURNISH AND INSTALL KEY CORES. LANDMARK SHALL CONFIRM SUITE KEYING REQUIREMENTS WITH TENANT AND PROVIDE TO

- CONTRACTOR SHALL UTILIZE WALL STOPS WHERE ALLOWABLE. FLOOR STOPS SHALL BE USED ONLY IF A WALL STOP IS NOT FEASIBLE OR OTHERWISE
- CONTRACTOR SHALL PROVIDE NON-REMOVABLE HINGE PINS AT ALL INTERIOR, LOCKED, REVERSE-HANDED DOORS.
- CONTRACTOR SHALL PROVIDE DOOR SILENCES AT ALL
- CONTRACTOR SHALL PAINT DOOR FRAME TO MATCH ADJACENT WALL UNLESS NOTED OTHERWISE ON DRAWINGS OR SCHEDULES.

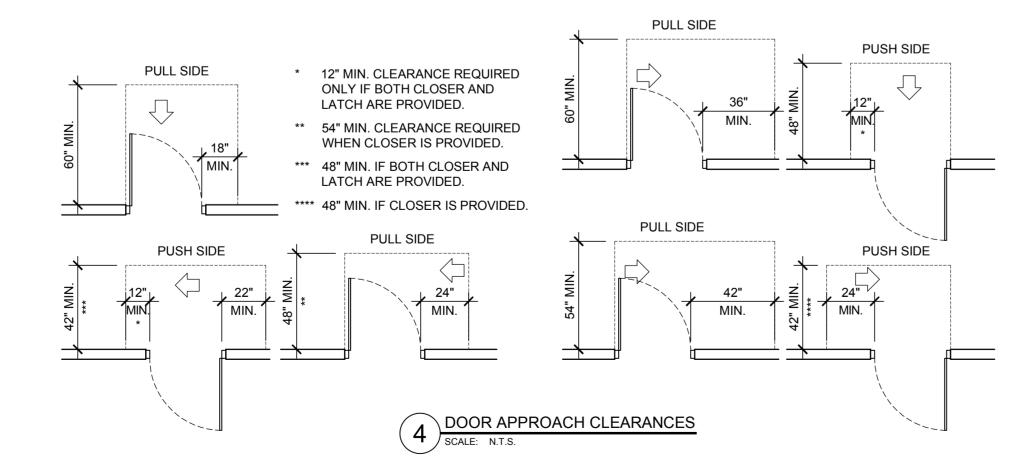












								DC	OR	SCHE	DUL	E							
DOOR NO. ROOM NAME		DOOR TYPE MAT'L FINISH SIZE (1 3/4" THICK U.N.O			OR	FRAME				DETAILS RESH JAMB HEAD			HARDWARE	ARDWARE NOTES	KEYING JANITOR KEY MASTER KEY STAFF #1 KEY STAFF #2 KEY STAFF #3 KE				
(2400A*)	CHECK-IN	TYPE D2	WD	PLAM-1	3'-8"x7'-0"	F2	MAT'L HM	PT-8	-	1/A11.1		45 MIN	Α	3, 9, 11, 12, 13	JANITOR KE	MASTERK	LEY STAFF #1 P	EY STAFF #2K	<u>=Y STAFF #3 KE</u> Y
(2400B)	CHECK-IN	D2	WD	PLAM-1	3'-8"x7'-0"	F2 SIM.	НМ	PT-9	-	15/A8.1	15/A8.1	-	Е	16					
2400C)	CHECK-IN	D2	WD	PLAM-1	3'-8"x7'-0"	F2 SIM.	НМ	PT-9	-	16/A8.1	16/A8.1	-	E	16					
2401	WAITING	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-9/ PT-8	-	1/A11.1	1/A11.1	-	Е	-					
2404	RECEPTION	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-9/ PT-8	-	1/A11.1	1/A11.1	-	С	1					
2406	WAITING	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-9/ PT-8	-	1/A11.1	1/A11.1	-	E	-					
2408	PHYSICIAN OFFICE	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-9/ PT-1	-	1/A11.1	1/A11.1	-	С	1					
2409	STORAGE	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	В	2					
2410	TELECOM	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	В	-					
2411	PATIENT TOILET	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-22/ PT-1	-	1/A11.1	1/A11.1	-	D	1, 2					
2412	EXAM	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2414	EXAM	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2415	EXAM	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2416	EXAM	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2417	EXAM	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2418	EXAM	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	F	1					
2419	CORRIDOR	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	Α	14, 15					
2420	JANITOR'S CLOSET	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1/ PT-8	-	1/A11.1	1/A11.1	-	F	2					
2421	PATIENT TOILET	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-22/ PT-1	-	1/A11.1	1/A11.1	-	D	1, 2					
2422	EXAM	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-8/ PT-1	-	1/A11.1	1/A11.1	-	F	1					
(2423*)	SOILED UTILITY	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	45 MIN	В	2					
2424	PHYSICIAN OFFICE	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-9/ PT-1	-	1/A11.1	1/A11.1	-	С	1					
2425	STAFF TOILET	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-22/ PT-1	-	1/A11.1	1/A11.1	-	D	1, 2					
2426	STAFF LOUNGE	D1	WD	PLAM-1	3'-0"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	-	С	1					
(2427*)	CORRIDOR	D1	WD	PLAM-1	3'-8"x7'-0"	F1	НМ	PT-1	-	1/A11.1	1/A11.1	45 MIN	Α	3, 9, 10, 11, 12, 13					

DOOR SCHEDULE NOTES:

- PROVIDE COAT HOOK MOUNTED AT 3'-4" ABOVE FINISHED
- FLOOR. VERIFY WITH LANDMARK PRIOR TO INSTALLATION. 2. UNDERCUT DOOR 3/4" ABOVE FINISH FLOOR.
- B. ADD CLOSER W/ HOLD OPEN AS PART OF HARDWARE SET.
- 4. USE OFFICE LOCKSET INSTEAD OF STANDARD.
- 5. USE CLASSROOM LOCKSET INSTEAD OF LOCKSET SPECIFIED.
- PROVIDE ELECTRO-MECHANICAL CYLINDER LOCK, LATCH, AND BOLT - SEE SPECIFICATIONS FOR MORE INFO.
- MECHANICAL CYPHER LOCK.
- 8. POWER DOOR OPERATOR AND BUTTON (SEE ELECTRICAL FOR MORE INFORMATION)
- 9. IN RATED DOOR ASSEMBLIES, PROVIDE THE FOLLOWING HARDWARE IN ADDITION TO THE SPECIFIED COMPONENTS: A. CLOSER WITH OUT HOLD OPEN.
- B. SMOKE SEALS. C. WHEN SCHEDULED, VISION PANEL GLAZING SHALL BE FIRELITE NT OR FIRELITE PLUS IN UL RATED FRAME.
- 10. PROXY CARD READER AND ELECTRONIC KEYPAD ACCESS. PROVIDE ELECTRIFIED CENTER HINGE - SEE SPECIFICATIONS FOR MORE INFO.
- 11. PROVIDE SMOKE GASKET AT HEAD AND JAMBS.
- 12. PLAM ON SHELL AND CORE SIDE OF DOOR TO MATCH BUILDING STANDARD.
- 13. DOOR FRAME ON SHELL AND CORE SIDE OF DOOR TO MATCH ADJACENT WALL PAINT.
- 14. USE PANIC HARDWARE AS PART OF HARDWARE SET
- 15. PROVIDE MAGNETIC HOLD OPEN
- 16. SEE ELEVATIONS, A8.1 FOR MORE INFORMATION

HARDWARE GROUPS HARDWARE SET H (LOCKABLE PAIR OF DOORS)

- HARDWARE SET A (SUITE ENTRY) CLASSROOM LOCK SET (1-1/2) PAIR - BALL BEARING BUTT HINGES
- WALL STOP CLOSER
- HARDWARE SET B (FILE, STOR., LAB., MED.) (1) STORAGE LOCK SET
- (1-1/2) PAIR STANDARD BUTT HINGES (1) WALL OR FLOOR STOP
- HARDWARE SET C (RECEPTION, OFFICE.) OFFICE LOCK SET (1-1/2) PAIR - STANDARD BUTT HINGES
- WALL OR FLOOR STOP HARDWARE SET D (TOILET) PRIVACY LOCK SET
- (1-1/2) PAIR STANDARD BUTT HINGES (1) WALL OR FLOOR STOP

ENTRANCE/ CLASSROOM

FREE OPERATION KEY LOCK

HARDWARE SET E (WAITING, STAFF CORRIDOR) (1) CLASSROOM LOCK SET (1-1/2) PAIR - STANDARD BUTT HINGES

- (1) WALL OR FLOOR STOP HARDWARE SET F (EXAM, SPECIAL PRO., CLOSET)
- (1) PASSAGE SET (1-1/2) PAIR - STANDARD BUTT HINGES (1) WALL OR FLOOR STOP
- HARDWARE SET G (LEAD LINED DOORS)
- (1) PASSAGE SET INTERMEDIATE PIVOT (1) WALL OR FLOOR STOP

<u>PASSAGE</u>

FREE OPERATION OPERATION

- (2) FINGER PULLS (1) TOP TRACK AND BOTTOM GUIDE

HARDWARE SET I (PAIR OF CLOSET DOORS)

(3) PAIR - STANDARD BUTT HINGES

WALL OR FLOOR STOP

(3) PAIR - STANDARD BUTT HINGES

(2) WALL OR FLOOR STOP

(1) CLASSROOM SET

HARDWARE SET J (SLIDING BI-PASS CLOSET DOOR) (1) BUMPER STOP

(2) DUMMY TRIM, STRIKE AND PRESSURE LATCH

- MANUFACTURER -PUSH/PULL -CYLINDER LOCK -TOP AND BOTTOM PIVOTS
 - -INTERMEDIATE PIVOTS -CLOSER -THRESHOLD -SWEEP -WEATHER STRIPPING

HARDWARE SET K (BI-FOLD CLOSET DOOR)

HARDWARE SET L (CORRIDOR PAIR OF DOORS)

PAIR - STANDARD BUTT HINGES

HARDWARE PROVIDED BY ALUMINUM ENTRANCE

(1-1/2) PAIR - BI-FOLD DOOR HINGES

(1) BI-FOLD DOOR HARDWARE

PANIC EXIT DEVICE

REGULAR ARM CLOSER

HARDWARE SET M (EXTERIOR DOOR)

LOCKSET GUIDE STORAGE <u>OFFICE</u> PUSH EMERG. BUTTON LOCK LOCK RELEASE THUMB KEY LOCK FREE KEY TO OPEN OPERATION FIXED LEVER

TOP AND BOTTOM THROUGH BOLTS (INACTIVE) (1) FINGER PULL

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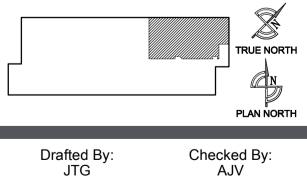
SUITE # 240

Revisions

Issued For: Date No. Description 01 Issued for Bid

100% Construction Document Set 03/15/17 02 Issued for Permit

100% Construction Document Set 07/20/17



KEY PLAN

Date Drafted: 03/15/2017

> DOOR SCHEDULE AND DETAILS

> > A11.1