PLI	JMBING ABBREVIATIONS
SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
VTR	VENT THROUGH ROOF
P−1, −2, ETC.	FIXTURE IDENTIFICATION
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ΙE	INVERT ELEVATION
AP	ACCESS PANEL

FI	FIRE PROTECTION LEGEND										
SYMBOL	SYMBOL DESCRIPTION										
	SPRINKLER PIPING LARGER THAN 2"										
	SPRINKLER PIPING 2" AND SMALLER										
•	SEMI RECESSED SPRINKLER HEAD										
0	CONCEALED SPRINKLER HEAD										
<b>◄</b>	SIDEWALL SPRINKLER HEAD										

SPRINKLER HEAD SCHEDULE								
TYPE	LOCATION							
QUICK RESPONSE WHITE SEMI-RECESSSED	ALL AREAS WITH CEILING EXCEPT AS NOTED BELOW							
QUICK RESPONSE BRASS UPRIGHT	AREAS WITHOUT CEILING							
QUICK RESPONSE DRY PENDANT	FREEZERS/COOLERS							
QUICK RESPONSE HORIZONTAL SIDEWALL	ELEVATOR SHAFT							
QUICK RESPONSE DRY HORIZONTAL SIDEWALL	LOADING DOCK							
QUICK RESPONSE WHITE CONCEALED	MAIN ENTRANCE, ALL PUBLIC WAITING AREAS, DINING ROOM AND ALL ELEVATOR LOBBIES							
QUICK RESPONSE CONCEALED	WOOD CEILING (VESTIBULES, ENTRANCES, CANOPIES) - COORDINATE COVER FINISH WITH ARCHITECT							

SPRINK	KLER MATERIALS SCHEDULE
SYSTEM	PIPING MATERIAL
PIPES 2" AND SMALLER	ASTM A53, SCHEDULE 40 BLACK STEEL WITH THREADED FITTINGS
PIPES 2½" AND LARGER	ASTM 53, SCHEDULE 10 BLACK STEEL PIPE WITH GROOVED FITTINGS
THREADED FITTINGS	ASTM B16.4, MALLEABLE IRON
ROLL GROOVED FITTINGS	ASTM A536 AND A183 WITH GRADE E, TYPE A GASKETS
GATE VALVES 2" AND SMALLER	UL 262, CAST-BRONZE, THREADED ENDS, SOLID WEDGE, OS&Y WITH RISING STEM
gate valves 2½" and Larger	UL 262, CAST OR DUCTILE IRON, FLANGED OR GROOVED ENDS

MATERIALS SCHEDULE									
SYSTEM	PIPING MATERIAL								
DOMESTIC WATER (ABOVE GROUND)	ASTM B88 TYPE 'L' HARD COPPER								
DOMESTIC WATER (BELOW SLAB)	ASTM B88 TYPE 'L' SOFT COPPER								
WASTE (UNDERGROUND)	SOLID-WALL PVC PIPE; ASTM D 2665 DRAIN, WASTE, VENT								
WASTE (ABOVE GROUND)	NO-HUB CAST IRON ASTM A 888 OR CISPI 301								
VENT (ABOVE GROUND)	NO-HUB CAST IRON ASTM A 888 OR CISPI 301								
DRAIN (CONDENSATE)	COPPER DWV TUBE: ASTM B 819, TYPE 'K' OR 'L'								
RAINWATER LEADERS	NO-HUB CAST IRON ASTM A 888 OR CISPI 301								
STORM WATER (UNDERGROUND)	SOLID-WALL PVC PIPE; ASTM D 2665 DRAIN, WASTE, VENT								

			MINIMU	JM BRANCH	I SIZES IN II	NCHES
MARK	DESCRIPTION	MAKE AND MODEL	WASTE	VENT	COLD	HOT WATER
WC-1	FLOOR MOUNTED, BOTTOM OUTLET, VITREOUS CHINA, ELONGATED, FLUSH VALVE WATER CLOSET WITH BEDPAN LUGS TOP SPUD, MANUALLY ACTIVATED, 1.6 GPF FLUSH VALVE WITH INTEGRAL VACUUM BREAKER AND BEDPAN WASHER WHITE, HEAVY DUTY, ELONGATED, OPEN FRONT SEAT LESS COVER WITH CHECK HINGE	KOHLER 'HIGHCREST' K-4302-L SLOAN ROYAL 111-BPW OLSONITE 95C	4	2	11/2	_
WC-2		KOHLER 'HIGHCREST' K-4302 SLOAN ROYAL 111-1.6 OLSONITE 95C	4	2	11/2	-
L-1	WALL MOUNTED, VITREOUS CHINA, LAVATORY WITH 4" CENTERS. GRID STRAINER & TAILPIECE DECK MOUNTED, CHROME PLATED GOOSENECK FAUCET WITH 4" WRISTBLADE CONTROLS FLOOR MOUNTED, IN-THE-WALL FIXTURE CARRIER	KOHLER 'KINGSTON' MODEL K-2005 CHICAGO FAUCETS MODEL 786-GN2FCCP JAY R SMITH MODEL 0700-Z	2	11/2	1/2	及
L-2	OVAL INTEGRAL WITH COUNTER LAVATORY WITH 4" CENTERS, GRID STRAINER AND TAIL PIECE DECK MOUNTED, CHROME PLATED GOOSENECK FAUCET WITH 4" WRISTBLADE CONTROLS	KOHLER 'PENNINGTON' MODEL K-2196 CHICAGO FAUCETS MODEL 786-GN2FCCP	2	11/2	1/2	1/2
DF-1	REMOTE FAN COOLED CHILLER WITH MOUNTING SHELF CAPABLE OF PRODUCING 8 GALLONS PER HOUR OF CHILLED WATER	HAWS MODEL 1119 HAWS MODEL HCR8 HAWS 6800 WITH 6700.4	2	11/2	1/2	-
S-1	ADA COMPLIANT COUNTER MTD. SINGLE COMPARTMENT 18GA. S/S SINK 19"X21"X6½" WITH 8" CENTERS GRID STRAINER & TAILPIECE DECK MOUNTED PLAIN END GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROLS ON 8" CENTERS	JUST SL-ADA-1921-A-GR CHICAGO FAUCETS 786-GN8FCCP	2	11/2	1/2	及
S-2	ADA COMPLIANT COUNTER MTD. SINGLE COMPARTMENT 18GA. S/S SINK 21"X25"X6½" WITH 8" CENTERS GRID STRAINER & TAILPIECE DECK MOUNTED PLAIN END GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROLS ON 8" CENTERS	JUST SL-ADA-2125-A-GR CHICAGO FAUCETS 786-GN8FCCP	2	11/2	1/2	1/2
S-3	ADA COMPLIANT COUNTER MTD. DOUBLE COMPARTMENT 18GA. S/S SINK 19"X21"X6½" WITH 8" CENTERS GRID STRAINER & TAILPIECE DECK MOUNTED PLAIN END GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROLS ON 8" CENTERS	JUST DL-ADA-1933-A-GR CHICAGO FAUCETS 786-GN8FCCP	2	11/2	1/2	1/2
S-4	COUNTER MTD. SINGLE COMPARTMENT 18GA. S/S SINK 19"X21"X7½" WITH 8" CENTERS GRID STRAINER & TAILPIECE DECK MOUNTED PLAIN END GOOSENECK FAUCET WITH 4" WRIST BLADE CONTROLS ON 8" CENTERS	JUST SL-1921-A-GR CHICAGO FAUCETS 786-GN8FCCP	2	11/2	1/2	1/2
CS-1	WALL MOUNTED, BACK OUTLET, VITREOUS CHINA, SIPHON JET ACTION FLUSHING RIM CLINICAL SINK TOP SPUD, MANUALLY ACTIVATED FLUSH VALVE WITH INTEGRAL STOP SERVICE SINK FAUCET WITH SPLIT WALL BRACE, INTEGRAL VACUUM BREAKER AND WRISTBLADES HAND HELD, HOSE END BEDPAN WASHER WITH FOOT PEDAL CONTROLS AND ELEVATED VACUUM BREAKER FLOOR MOUNTED IN—THE—WALL HEAVY DUTY FIXTURE CARRIER	KOHLER 'CAMERTON' K-12867 SLOAN ROYAL 117 CHICAGO FAUCETS 814-VBCP CHICAGO FAUCETS 901G-77-19K JAY R SMITH 0914-KW	4	2	11/2	1/2
SS-1	WALL MOUNTED VITREOUS CHINA SERGEONS SCRUB SINK WITH SINGLE HOLE PUNCH IN FAUCET LEDGE DECK MOUNTED SENSOR ACTIVATED CHROME PLATED VALVE WITH USER ADJUSTED TEMPERATURE CONTROL LESS SPOUT DECK MOUNTED CHROME PLATED 6" TALL PLAIN END GOOSENECK SPOUT WITH LAMINAR FLOW CONTROL DEVICE AND 8" PROJECTION FLOOR MOUNTED HEAVY DUTY IN—THE—WALL FIXTURE CARRIER FOR HEAVY FIXTURES	KOHLER 'HOLLISTER' K12793 CHICAGO FAUCETS 116.323.21.1 CHICAGO FAUCETS GN8AFCJKCP JAY R SMITH 0870-KF	2	11/2	1/2	1/2
MS-1	FLOOR MOUNTED 24"x24"x12" TERRAZZO MOP BASIN WITH 10" DROP FRONT STAINLESS STEEL RIM GUARD AND SPLASH PANELS POLISHED CHROME PLATED BACK MTD SERVICE SINK FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, WALL BRACE & PAIL HOOK	STERN WILLIAMS SBC-1700-BP CHICAGO FAUCETS 911-CP	3	2	34	34
SH-1	ONE PIECE, SEAMLESS ACRYLIC SHOWER PAN AND STALL WITH FOLD UP SEAT AND GRAB BARS PRESSURE BALANCING, MIXING VALVE, LEVER HANDLE, INTEGRAL STOPS WALL/HAND SHOWER, FLEXIBLE METAL HOSE AND 30" SLIDE BAR.	AQUABATH SYMMONS	2	11/2	1/2	1/2
DSH-1	FLOOR DRAIN WITH 6" ACID RESISTANT GRID STRAINER AND TAILPIECE WITH MECHANICAL JOINTS WALL MOUNTED, HAND HELD DRENCH SHOWER WITH AUTOMATIC HOLD OPEN AND 12' HOSE SOLID BRASS MIXING VALVE CAPABLE OF 5 GPM CONTINUOUS FLOW	JAY R SMITH # Z-9A-FD4 SPEAKMAN MODEL SE 925 SPEAKMAN MODEL	3	2	34	34
RD-1	ROOF DRAIN	JAY R SMITH (MIFAB)	SIZ	E INDICATE	D ON DRAW	ING
ORD-1	OVERFLOW ROOF DRAIN	JAY R SMITH (MIFAB)	SIZ	E INDICATE	D ON DRAW	/ING
DS-1	LAMBS TONGUE DOWNSPOUT NOZZLE	JAY R SMITH (MIFAB)	SIZ	E INDICATE	D ON DRAW	ING
FD-1	FLOOR DRAIN - MECHANICAL ROOMS LARGE CAPACITY	JAY R SMITH	4	2	⅓ (TP)	-
FD-2	FLOOR DRAIN - GENERAL PURPOSE	JAY R SMITH	3	2	½ (TP)	_
FS-1	FLOOR SINK WITH ACID RESISTANT ENAMEL INTERIOR COATING 8"x8"x6" DEEP WITH SEDIMENT BUCKET LESS GRATE	JAY R SMITH 3101-10	4	2	½ (TP)	_
FS-2	FLOOR SINK WITH ACID RESISTANT ENAMEL INTERIOR COATING 8"x8"x6" DEEP WITH SEDIMENT BUCKET WITH HALF GRATE	JAY R SMITH	4	2	_	_
HB-1	NON-FREEZE WALL HYDRANT IN RECESSED WALL BOX WITH HOSE END DOUBLE CHECK BACKFLOW PREVENTER	WOODFORD B-67	_	_	34	_
SDB-1	RECESSED SUPPLY AND DRAIN WALL BOX WITH INTEGRAL WATER HAMMER ARRESTORS ON SUPPLIES AND QUARTER TURN VALVES	GUY GREY	2	11/2	1/2	1/2
SB-1	RECESSED WATER SUPPLY BOX WITH INTEGRAL WATER HAMMER ARRESTOR AND QUARTER TURN VALVE	GUY GREY	_	_	1/2	_

							MINIMUM NU	IMBER OF	OUTLETS	S		
MARK	DESCRIPTION	MAKE	CONNECTION	LOCATION	OXYGEN	VACUUM	MED AIR	SLIDE	WAGD	NITROUS OXIDE	NITROGEN	REMARKS
Α	CEILING HOSE DROPS	AMICO	D.I.S.S.	OR # 1	1	2	1	-	1	1	1	
В	WALL OUTLET	AMICO	MEDAES DIAMOND	MINOR PROCEDURE/ER TRAUMA/ER EXAM	3	3	1	3	-	_	-	CONTRACTOR TO PROVIDE MEDICAL GAS
С	WALL OUTLET	AMICO	MEDAES DIAMOND	PACU	1	3	1	3	-	-		OUTLETS/INLETS THAT MATCH EXISTING MEDICAL GAS OUTLET TYPES.
D	WALL OUTLET	AMICO	MEDAES DIAMOND	IMAGEING/PT ROOMS	1	1	1	1	-	_	_	COORDINATE WITH OWNER/USER TO
Ε	WALL OUTLET	AMICO	MEDEAS DIAMOND	ANESTHESIA WORK ROOM	1	-	1	-	-	_		ENSURE COMPATIBILITY OF OUTLET MANUFACTURER AND OUTLET
F	WALL OUTLET	AMICO	MEDEAS DIAMOND	PATIENT ROOMS	1	1	1	1	-	-	-	CONNECTION TYPE.
G	NITROGEN CONTROL PANEL	AMICO	D.I.S.S.	OR # 1	-	_	_	_	_	_	1	
			MOUNT				MINIMU	M VALVE	SIZE			
ZV.1	ZONE VALVE	AMICO	RECESSED	1491	羟	11/2	1/2	-	-	1/2	1/2	
ZV.2	ZONE VALVE	AMICO	RECESSED	1490	及	11/4	1/2	-	_	_	_	
ZV.3	ZONE VALVE	AMICO	RECESSED	1490 / 1692 / 1191 / 1093	½	11/2	1/2	-	-	_	_	
ZV.4	ZONE VALVE	AMICO	RECESSED	1390	为	34	1/2	-	-	-	_	
ZV.5	ZONE VALVE	AMICO	RECESSED	1391	羟	-	1/2	-	-	_	_	
							TYPE OF	GAS MOI	NITORED	_		
AP.1	AREA ALARM PANEL	AMICO	RECESSED	PASSAGE 1491	X	X	X			X	X	_
AP.2	AREA ALARM PANEL	AMICO	RECESSED	PASSAGE 1491	X	Х						_
AP.3	AREA ALARM PANEL	AMICO	RECESSED	PASSAGE 1491	X	Х	X					_
AP.4	AREA ALARM PANEL	AMICO	RECESSED	CORRIDOR 1392								_
AP.5	AREA ALARM PANEL	AMICO	RECESSED	CORRIDOR 1392								_
AP.6	MASTER ALARM PANEL	AMICO	RECESSED	CORRIDOR 1392	X	X	x			X		_

WH-3	A.O. SMITH	BTH-150	100	40	140	173 <b>9</b> 100	240	3	60	36	2 9 18	SIMULTANEOUS	15
WH-3	A.O. SMITH	BTH-199	100	40	140	230 @ 100	240	3	60	<b>4</b> 5	3 <b>©</b> 15	SIMULTANEOUS	20
	CIRCULATION PUMP												
MARK	MANUF	MODEL	PERFORMANCE		ELECTRICAL DATA						REMARKS		
I MARK I		MUJUEL										REMARNS	
100 411		MODEL	GPM	FT. HD.	VOLTS	PHASE		KW	HP			11200 01110	
CP-1	TACO	113	GPM 5	FT. HD.	VOLTS 120	PHASE 1		KW –	HP 1/8				
			_			1 1							
CP-1	TACO	113	5	15	120	1 1 1		-	1/8				

WATER HEATER SCHEDULE

ENTERING LEAVING

MODEL

BTH-120

BTH-120

A.O. SMITH

A.O. SMITH

WATER TEMPERATURE | RECOVERY ©

140 | 138 🔮 100 | 240 | 3 |

140 | 138 👽 100 | 240 | 3 |

60 | 24 | 2 **©** 12 | SIMULTANEOUS

60 | 24 | 2 **©** 12 | SIMULTANEOUS

	TEMPERING VALVE SCHEDULE										
MARK	MARK MANUF	MODEL	1	WATER TEMPERATURE	IN F	OUTLET FLOW	SYSTEM PRESSURE	CIRCULATING PUMP	DEMARKS		
MARK	MANUF	MODEL	COLD ENTERING	HOT ENTERING	TEMPERD LEAVING	OUILEI FLOW	DROP	CIRCULATING PUMP	REMARKS		
TMV-1	LAWLER	801-86208	40	140	110	34 GPM	20 PSI	CP-1	-		
TMV-2	LAWLER	801-86208	40	140	110	25 GPM	10 PSI	CP-2	-		
TMV-3	LAWLER	801-86208	40	140	110	34 GPM	20 PSI	CP-3	-		
TMV-4	LAWLER	801-86208	40	140	110	40 GPM	30 PSI	CP-4	_		

MEDICAL VACUUM PUMP SCHEDULE  SCFM CAPACITY MOTOR HP ELECTRICAL DATA PECIFIVES  FLA 6 60HZ RECIFIVES										DEOID/ED (OAL)	
MARK MANUFACTURER	MODEL	TYPE	<b>9</b> 19" HG	<b>9</b> 25" HG	EACH	VOLTS	PHASE	HZ	FLA 9 60HZ	RECIEVER (GAL)	
MVP-1	POWEREX	CVTD0303	DUPLEX TANK MOUNTED CLAW	21	-	3	460	3	60	9.2	80

	MEDICAL AIR COMPRESSOR SCHEDULE										
MARK	MANI IFACTI IDED	MODEL		00514 04540774		MOTOR HP		ECTRICAL DAT	<b>A</b>		DECIENTED (CAL)
MAKK	MANUFACTURER	RER MODEL	TYPE	950 PSIG	<b>9</b> 25" HG	EACH	VOLTS	PHASE	HZ	FLA • 60HZ	RECIEVER (GAL)
MAC-1	POWEREX	MSD0303	DUPLEX VERTICAL SCROLL	11	_	3	460	3	60	11.0	80

FURNISH COMPLETE, AND INSTALL A 100% HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE SPRINKLER SYSTEM AS SPECIFIED UNDER DIVISION 15 OF THE SPECIFICATIONS. SERVING THE LENTIRE STRUCTURE AND EXCLUDING NO SPACES. THE SYSTEM SHALL BE INSTALLED TO MEET INSURING AGENCY GUIDELINES, NFPA 13, AND STATE AND LOCAL REQUIREMENTS. NO PART OF SECTION OF NFPA CHAPTERS SHALL BE VIOLATED. EXACT NUMBER OF HEADS REQUIRED SHALL BE AS DETERMINED BY THE CONTRACTOR. HOWEVER, SPECIFIC GUIDELINES AS REQUIRED BY INSURING AGENCY AND AS SPECIFIED SHALL NOT BE VIOLATED. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE ZONED AS REQUIRED. CONTRACTOR SHALL INSTALL TEST CONNECTIONS AND DRAIN VALVES AND ROUTE DRAIN LINES TO THE EXTERIOR OF THE BUILDING. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO SPRINKLER DRAWINGS, HYDRAULIC CALCULATIONS, SPRINKLER PIPING, SPRINKLER HEADS, AND ACCESSORIES. ALL SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER OR EQUIVALENT CONTRACTOR'S FIRE SPRINKLER CERTIFICATE AND THE APPROVAL STAMPS OF THE LOCAL CODE AUTHORITY HAVING JURISDICTION, AND THE OWNER'S INSURING

SHOP DRAWINGS SHALL INCLUDE ALL LIGHTS, GRILLES, SOFFITS, ALARMS, SPEAKERS AND OTHER CEILING COMPONENTS, HYDRAULIC NODE POINTS, AND BOUNDARY SHOWN FOR MOST REMOTE 1500 SQ. FT. OF EACH SYSTEM PROVIDED.

CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.

ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE BY OWNER.

ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM THE JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.

ALL SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY DESIGNED TO THE AVAILABLE WATER SUPPLY. CONTRACTOR SHALL FIELD VERIFY ADEQUACY (FLOW, PRESSURE, ETC.) OF EXISTING FIRE SUPPLY PRIOR TO DESIGN, FABRICATION, AND INSTALLATION OF SPRINKLER SYSTEM. A MINIMUM OF 10 PSI SAFETY FACTOR SHALL BE INCLUDED IN THE CALCULATIONS FOR FUTURE LOSSES IN THE WATER SERVICE PRESSURE.

HYDRAULIC CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR OUTSIDE HOSE STREAMS. AUTOMATIC SPRINKLER SYSTEM CONNECTIONS SHALL BE PROVIDED WITH FLOW SWITCHES ADJACENT TO THE ZONE CONTROL VALVE WIRED FOR ANNUNCIATION AT THE MAIN FACP. SEE ELECTRICAL DRAWINGS FOR LOCATION OF FACP.

AUOTMATIC SPRINKLERS SHALL BE PROVIDED IN ALL ELECTRICAL ROOMS AND ONLY PIPING SERVING SPRINKLER HEADS IN THESE ROOMS SHALL BE ALLOWED. THE SERVICE TO EACH OF THESE SPACES SHALL BE PROVIDED WITH A CONTROL VALVE WITH FLOW AND TAMPER SWITCH LOCATED IN AN ADJACENT ROOM AND WIRED FOR ANNUNCIATION AT THE MAIN FACP.

ALL VALVES SHALL HAVE U.L. LISTED SUPERVISORY SWITCHES WIRED FOR ANNUNCIATION AT THE OWNER'S CENTRAL ALARM SYSTEM. WIRING OF THE SWITCHES SHALL BE BY OTHERS. GROOVED (VICTAULIC) COUPLINGS SHALL NOT BE USED OVER OR NEAR ELECTRICAL

SWITCHGEAR, PANELS, TRANFORMERS, ETC. ALL SPRINKLER PIPING SHALL BE ROUTED TO MAINTAIN MINIMUM CLEAR HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.

SIAMESE FIRE DEPARTMENT CONNECTION SHALL BE TWO-WAY EXPOSED SIAMESE TYPE, 2-1/2 X 2-1/2" X 4" IN SIZE. CAST BRASS BODY, CAST BRASS ESCUTCHEON, AND BRASS FEMALE HOSE INLETS HAVING INDIVIDUAL CLAPPER VALVES, PLUGS, AND CHAINS. HOSE INLETS AT 2'-6" ABOVE GRADE. ALL EXPOSED SURFACES SHALL BE POLISHED CHROME. ASSEMBLY SHALL BE POTTER ROEMER 5800 SERIES OR APPROVED EQUAL.

SEISMIC BRACING SHALL BE PROVIDED AS REQUIRED BY THE LOCAL AUTHORITY HAVING

A SEISMIC EXPANISON LOOP SHALL BE PROVIDED AT ALL PIPES CROSSING THE SEISMIC JOINT IN THE BUILDING. METRAFLEX METRALOOP SYSTEM OR EQUAL. THE LOOP, ANCHORS AND GUIDES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

KITCHEN GENERAL NOTES										
VIDE CUTOFF VALVE(S) IN CONNECTION LINES TO EACH PIECE OF EQUIPMENT NECTIONS FOR BOTH HOT AND COLD WATER SERVICES.	AND	OTH								

CONTRACTOR SHALL PROVIDE ROUGH—INS AND FINAL CONNECTIONS TO EACH PIECE OF EQUIPMENT REQUIRING PLUMBING CONNECTIONS, INCLUDING: TAILPIECES, TRAPS, LINE STRAINERS, STOP VALVES, GAUGES, VACUUM BREAKERS, REDUCING VALVES, SPECIAL FITTINGS, THERMOMETERS, GLOBE SOLENOID VALVES, INSULATION AND ALL NECESSARY DEVICES FOR A COMPLETE AND OPERATIVE SYSTEM.

WATER PRESSURE, BOTH HOT AND COLD, SHALL NOT EXCEED PRESSURES AS RECOMMENDED BY EQUIPMENT MANUFACTURER. PROVIDE REQUIRED PRESSURE REDUCING VALVE AT EACH CONNECTION AS REQUIRED. REFER TO KITCHEN EQUIPMENT BROCHURES AND DRAWINGS FOR EXACT EQUIPMENT REQUIREMENTS.

PROVIDE SHOCK ABSORBERS IN WATER LINES, BOTH HOT AND COLD, SERVING EQUIPMENT HAVING QUICK CLOSING VALVES.

COORDINATE EXACT REQUIRED PLUMBING ROUGH-INS WITH KITCHEN SUPPLIED DRAWINGS. INSTALL REQUIRED VACUUM BREAKERS AS SUPPLIED BY KITCHEN EQUIPMENT SUPPLIER AND

PER SUPPLIER'S RECOMMENDATIONS AND STATE AND LOCAL CODES AND REQUIREMENTS. IF VACUUM BREAKERS ARE NOT SUPPLIED, THE CONTRACTOR SHALL PROVIDE AND INSTALL SUCH. INDIRECT WASTE AND DRAIN LINES TERMINATING AT FLOOR DRAINS AND FLOOR SINKS SHALL HAVE A TWO (2) INCH AIR-GAP AT DRAIN. SUPPORT PIPING SO IN-DIRECT WASTE CANNOT BE

DEFLECTED FROM FLOOR DRAIN OR FLOOR SINK OPENING. COLD, HOT, AND HOT WATER RECIRCULATING PIPING BELOW SLAB ON GRADE SHALL BE TYPE 'K' SOFT COPPER WITH NO JOINTS BELOW SLAB.

FURNISH AND INSTALL NATURAL GAS CUT-OFF COCKS AND PRESSURE REDUCING VALVES AT CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE REQUIRED PRESSURE REDUCING VALVE O REDUCE GAS PRESSURE AT CONNECTION AS REQUIRED. REFER TO KITCHEN BROCHURES AND DRAWINGS FOR EXACT REQUIREMENTS AND LOCATIONS.

MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH STATE AND LOCAL PLUMBING CODES AND REQUIREMENTS, TO INCLUDE HEALTH STANDARDS.

## SEISMIC SUPPORT NOTE

**EXPANSION TANK** 

PLUMBING PIPING AND EQUIPMENT SHALL BE SUPPORTED BASED ON A SEISMIC CATEGORY D WITH IP = 1.5. SEISMIC SUPPORT SYSTEMS SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER. CONTRACTOR TO COORDINATE WITH LOCAL AHJ TO CONFIRM SEISMIC DESIGN CONSIDERATIONS AND BRACING OF PIPING AND EQUIPMENT.

FLOW TEST DATA SCHEDULE				
UPON AWARD OF THE CONTRACT, THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING AND PROVIDING HIS/HER OWN FLOW TEST PER NFPA GUIDELINES. THE FLOW TEST RESULTS DEPICTED HERE ARE FOR REFERENCE ONLY AND ARE NOT TO BE USED FOR THE BASIS OF THEIR DESIGN.				
STATIC PRESSURE	110 PSI			
RESIDUAL PRESSURE	92 PSI			
PROJECTED FLOW AT 20 PSI	2630 GPM			
DATE OF TEST	10/24/2000			
TIME OF DAY OF TEST	8:54 AM			



PLUMBING GENERAL NOTES CONTRACTOR SHALL COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND SUPPLIER. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING: SHUTOFF VALVES, P-TRAPS, P.R.V.'S AND PIPING AS REQUIRED.

BY MANUFACTURERS RECOMMENDATIONS AND AS SHOWN ON DRAWINGS. CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES INVOLVED SO AS TO AVOID ANY PIPE ROUTING PROBLEMS.

CONTRACTOR SHALL FURNISH AND INSTALL SHOCK ABSORBERS ON ALL FLUSH

VALVE FIXTURES AND ALL LINES SERVING QUICK CLOSING VALVES AS REQUIRED

ALL VENTS SHALL BE A MINIMUM OF 25'-0" AWAY FROM ALL FRESH AIR INTAKES ON A/C UNITS AND CLINICAL AIR COMPRESSORS, WINDOWS, AND

VENTS AND WASTE STACKS LESS THAN (3) INCHES SHALL NOT BE ROUTED THROUGH ROOF. PROVIDE INCREASES ON LINES BELOW ROOF SLAB.

FURNISH AND INSTALL DEEP SEAL P-TRAPS ON FLOOR DRAINS NOT EQUIPPED WITH AN AUTOMATIC TRAP PRIMER SYSTEM IN ALL AREAS SUBJECT TO VAPORIZING OF THE P-TRAP.

PROVIDE SHUT-OFF VALVES ON ALL HOT AND COLD WATER BRANCH LINES AT

CONNECTION TO MAINS WHETHER SHOWN ON PLANS OR NOT. ALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. ALL SHOWER HEADS SHALL BE MOUNTED AT 78" A.F.F.

PROVIDE DRIP TROUGHS ON ALL SANITARY AND STORM WATER PIPING IN ALL O.R.'S, KITCHENS/DIETARY, CT SCAN ROOMS, CYSTO/ENDO ROOMS, MRI ROOMS, RAD. ROOMS, TOMO ROOMS, MAMMO ROOMS, STERILE PROCESSING ROOMS, AND SPECIAL PROCEDURE ROOMS. THIS IS TO INCLUDE ALL CONTROL ROOMS SERVING THESE SPACES.

RENOVATION NOTE: THESE DRAWINGS WERE DERIVED IN-PART FROM EXISTING AS-BUILT PLANS AND LIMITED FIELD OBSERVATIONS AND MAY NOT BE ALL INCLUSIVE OF THE CONDITIONS THAT EXIST. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, PIPE ROUTING AND SCOPE OF WORK PRIOR TO SUBMITTAL OF BID. ANY DEVIATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER.

ALL FIXTURES NOT EQUIPED WITH INTEGRAL TRAPS SHALL BE PROVIDED WITH CHROME PLATED, 17 GAUGE TUBULAR BRASS 'P' TRAPS BY MCGUIRE OR EQUAL. ALL FIXTURE STOPS SHALL BE COMMERCIAL GRADE, SOLID BRASS BY MCGUIRE OR EQUAL. NO PLATIC STEMS WILL BE ALLOWED.

ALL FIXTURE SUPPLIES SHALL BE CHROME PLATED COPPER RISERS BY MCGUIRE OR EQUAL.

ALL EXPOSED 'P' TRAPS AND SUPPLIES AT LAVATORIES AND SINKS SHALL BE INSULATED PER ADA REQUIREMENTS. INSULATION SHALL BE PRO-WRAP OR EQUAL.

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	PLUMBING SHEET INDEX
SHEET NUMBER	SHEET TITLE
P0.0	PLUMBING LEGEND SCHEDULES AND NOTES
P1.0A	PLUMBING UNDERGROUND PIPING — PART A
P1.0B	PLUMBING UNDERGROUND PIPING — PART B
P1.0C	PLUMBING UNDERGROUND PIPING - PART C
P1.0D	PLUMBING UNDERGROUND PIPING — PART D
P1.1A	PLUMBING COMPONENT WASTE PIPING - PART A
P1.1B	PLUMBING COMPONENT WASTE PIPING - PART B
P1.1C	PLUMBING COMPONENT WASTE PIPING - PART C
P1.1D	PLUMBING COMPONENT WASTE PIPING - PART D
P2.1A	PLUMBING PIPING - PART A
P2.1B	PLUMBING PIPING - PART B
P2.1C	PLUMBING PIPING - PART C
P2.1D	PLUMBING PIPING — PART D
P3.1A	MEDICAL GAS PIPING - PART A
P3.1B	MEDICAL GAS PIPING - PART B
P3.1C	MEDICAL GAS PIPING - PART C
P3.1D	MEDICAL GAS PIPING - PART D
P4.1	ENLARGED MECHANICAL ROOMS
P5.1	PLUMBING ROOF PLAN
FP1.1	FIRE PROTECTION INTENT PLAN

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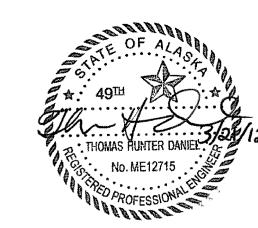
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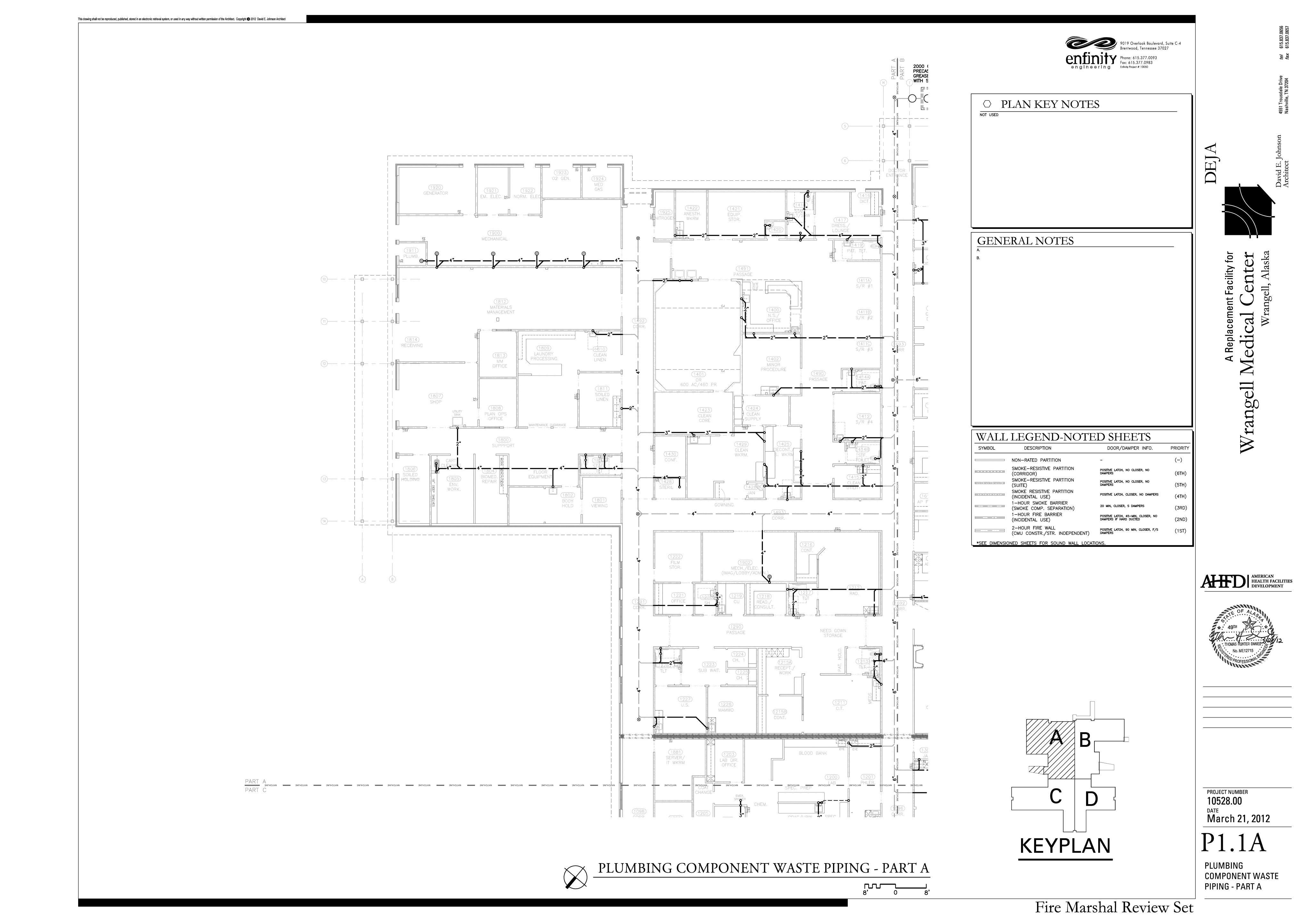
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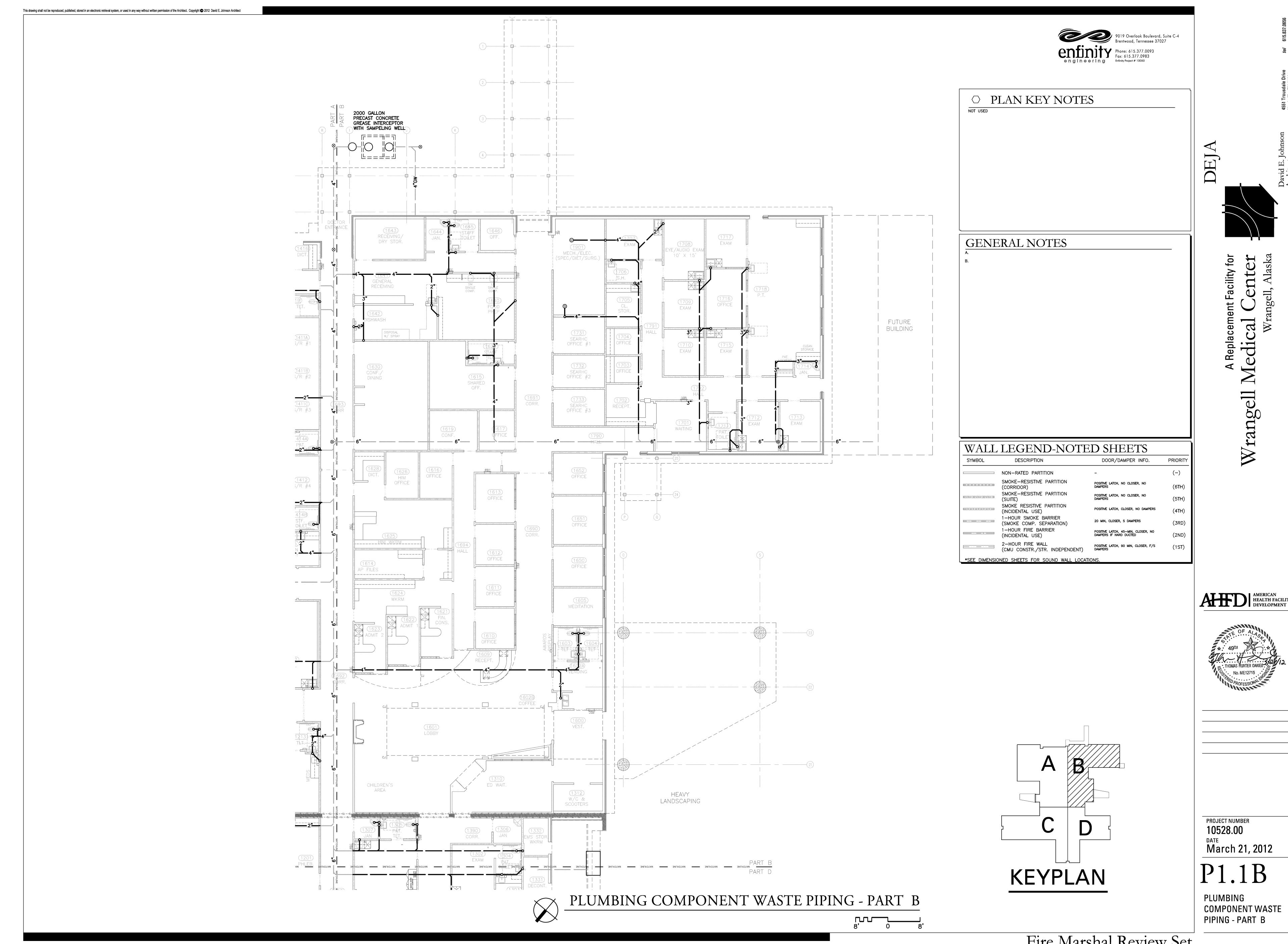


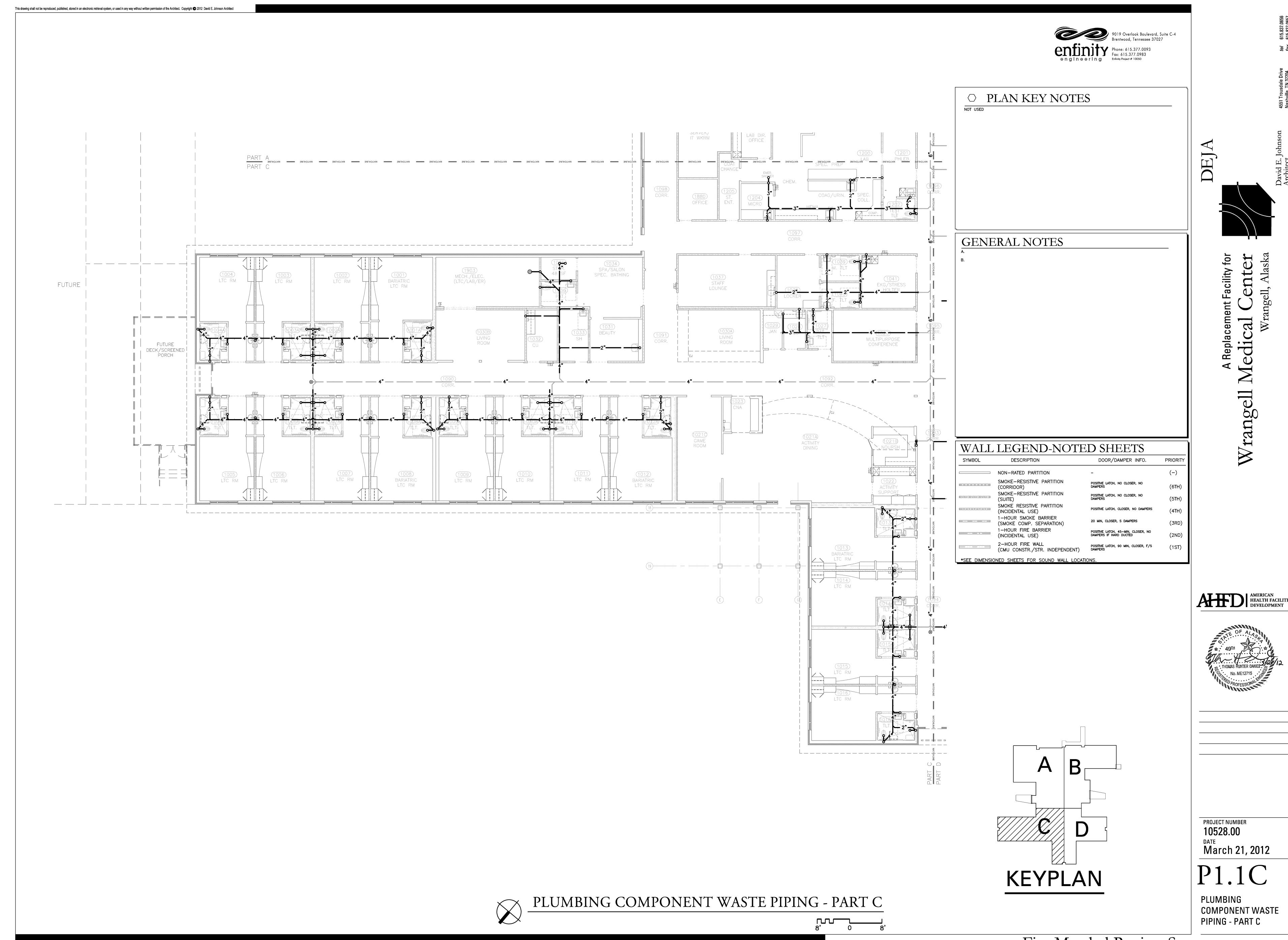
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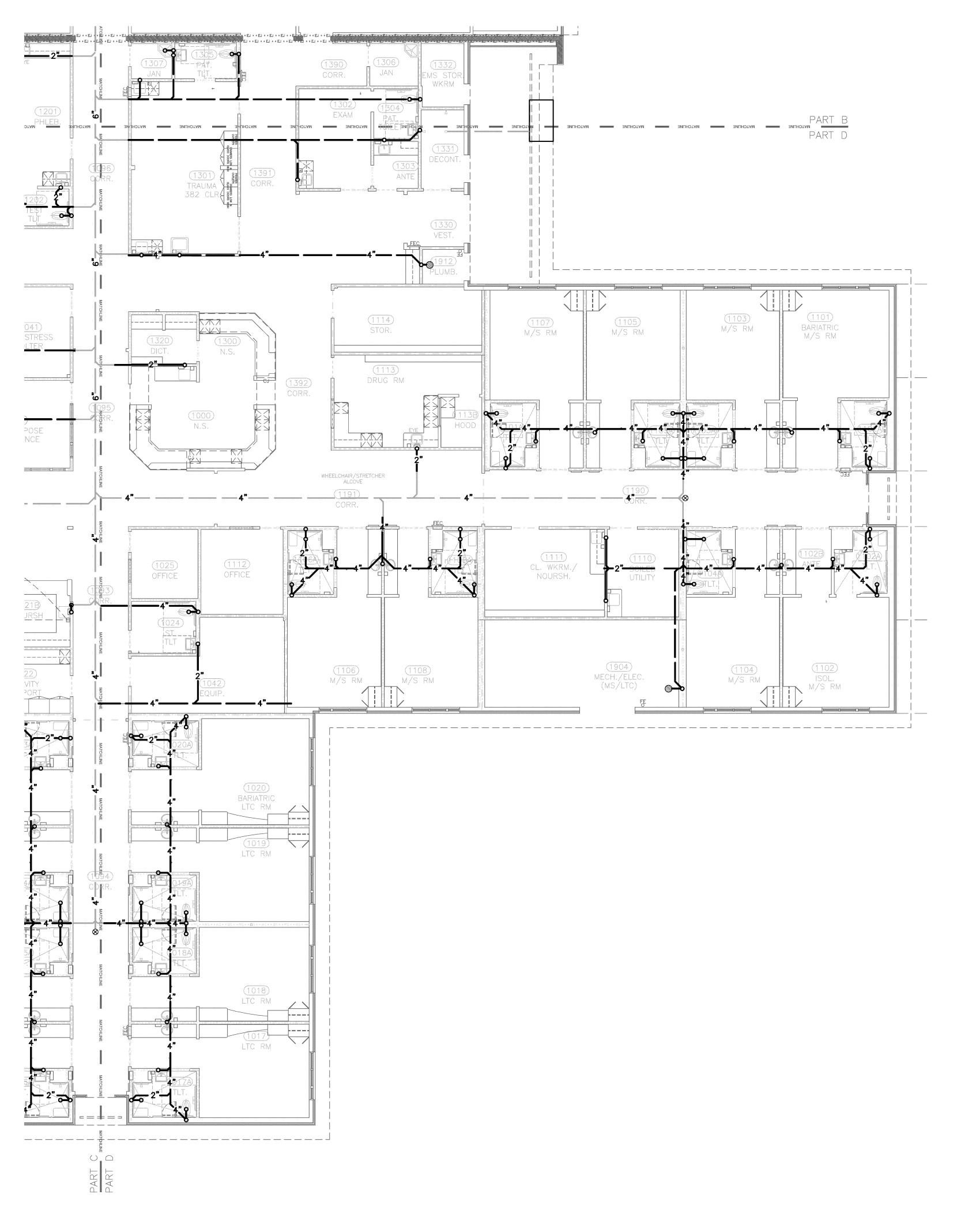
PLUMBING LEGEND SCHEDULES AND NOTES



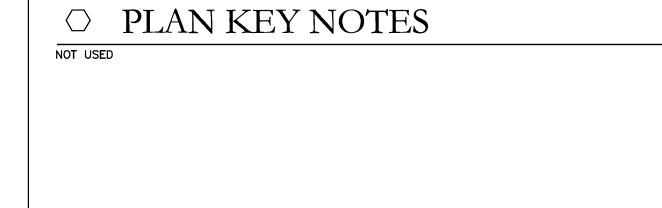








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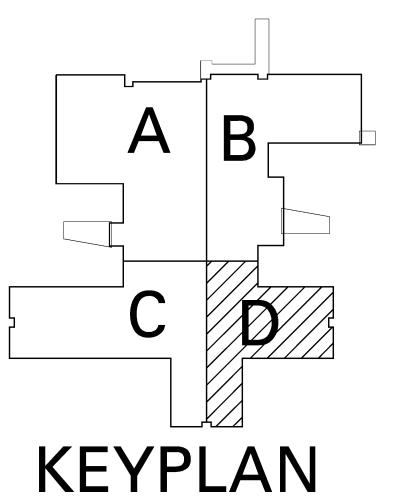


GENERAL NOTES	
A.	

SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY
	NON-RATED PARTITION	-	(-)
35 0165 7058 0000 NOV GBO 3650 0555 0555	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
S000 000 S100 000 S100 00	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
	SMOKE RESISTIVE PARTITION (INCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)
	1-HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN, CLOSER, S DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE)	POSITIVE LATCH, 45-MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
Annochem 1 hospitals ) annochem	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS	(1ST)





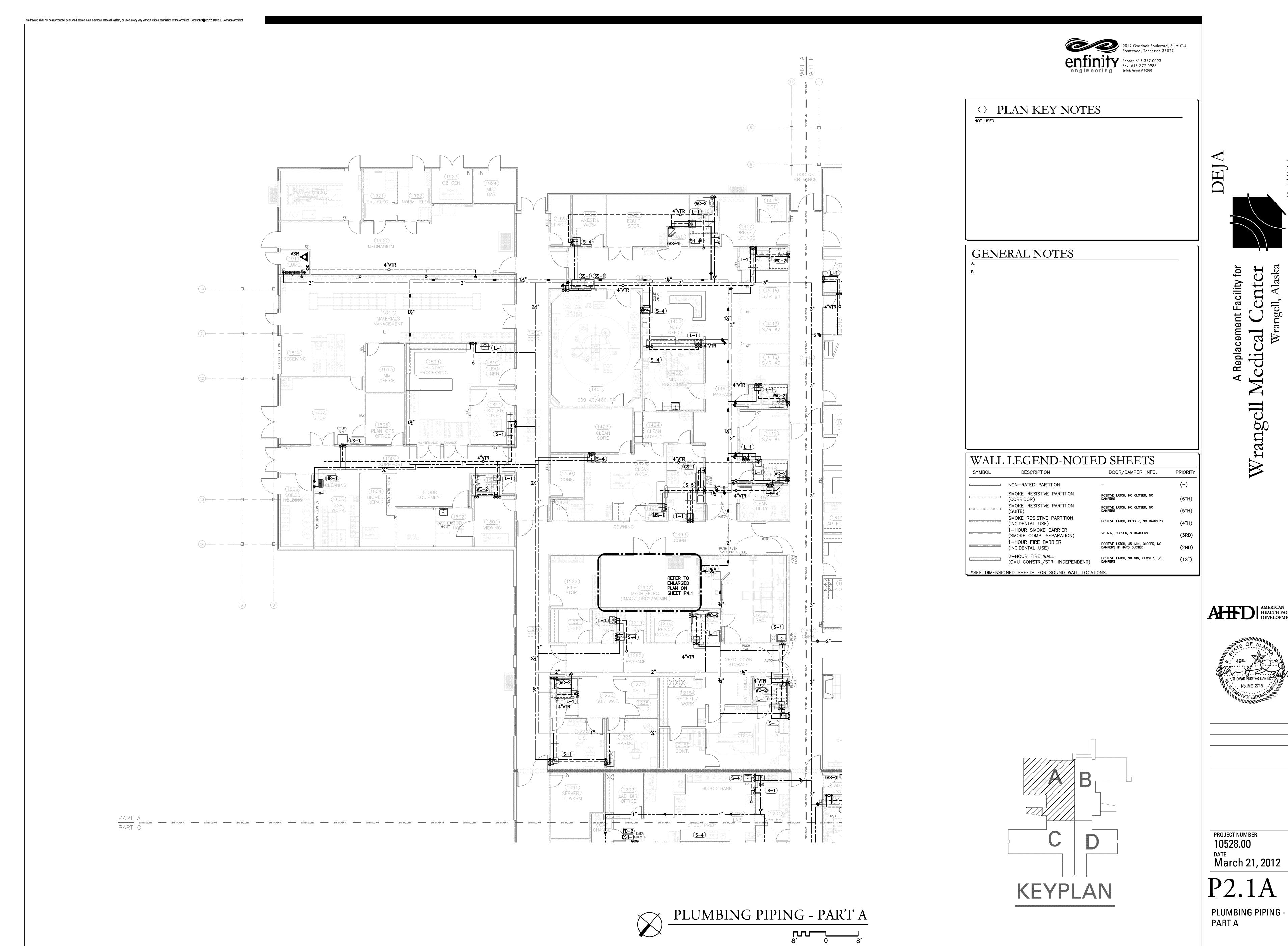


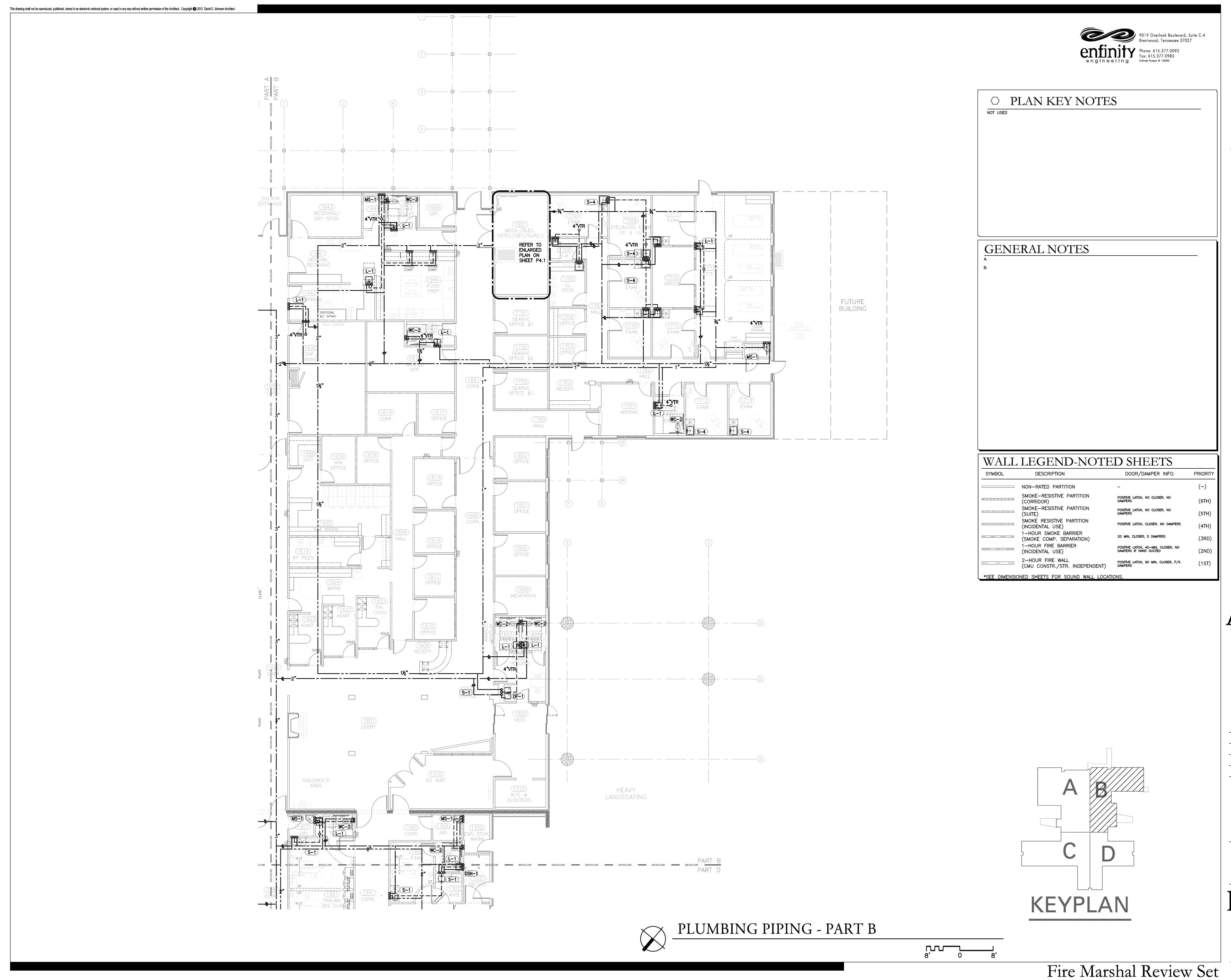
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P1.1D

PLUMBING COMPONENT WASTE PIPING - PART D

PLUMBING COMPONENT WASTE PIPING - PART D



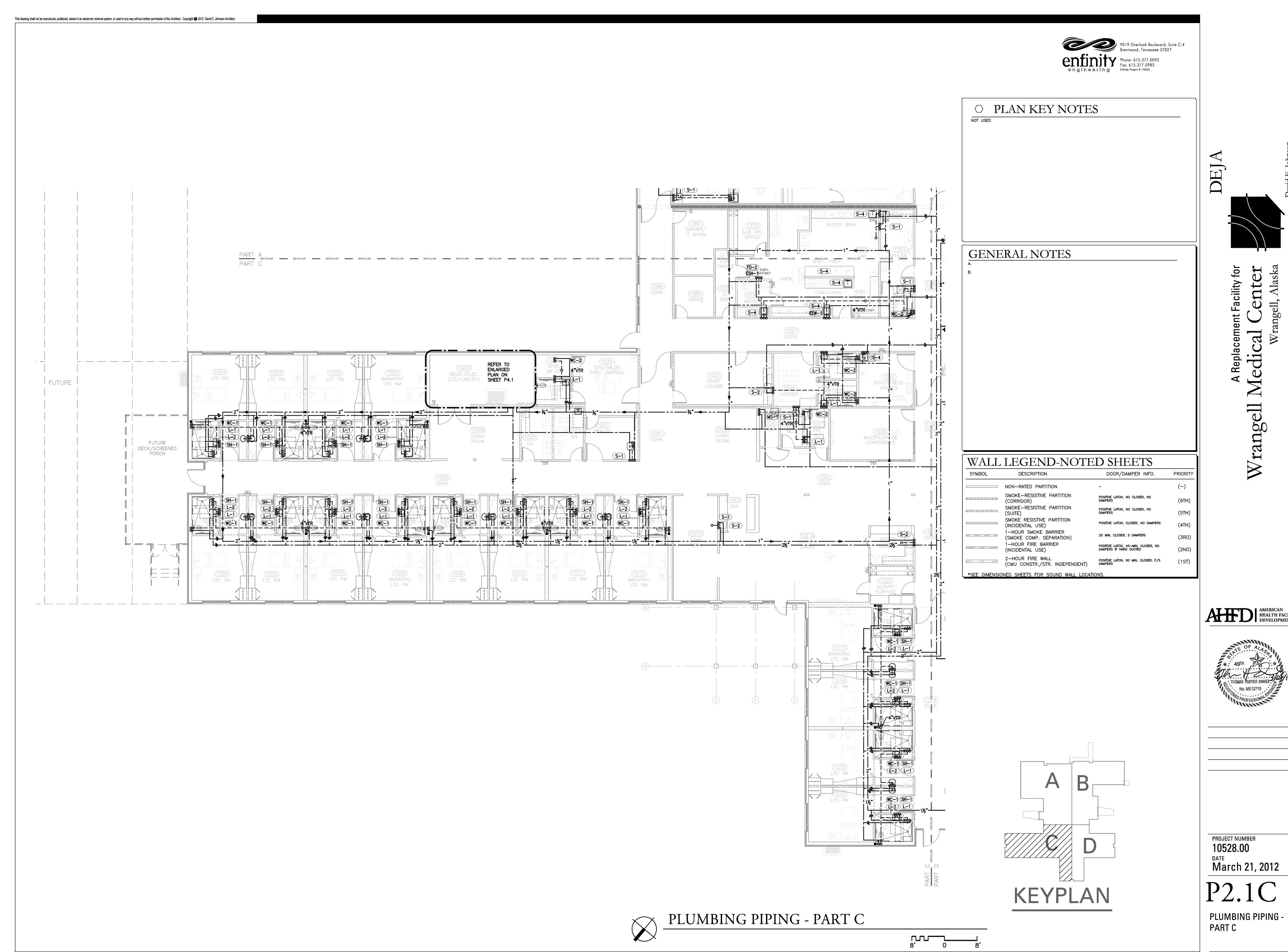


AFFD AMERICAN HEALTH FACILITIES DEVELOPMENT

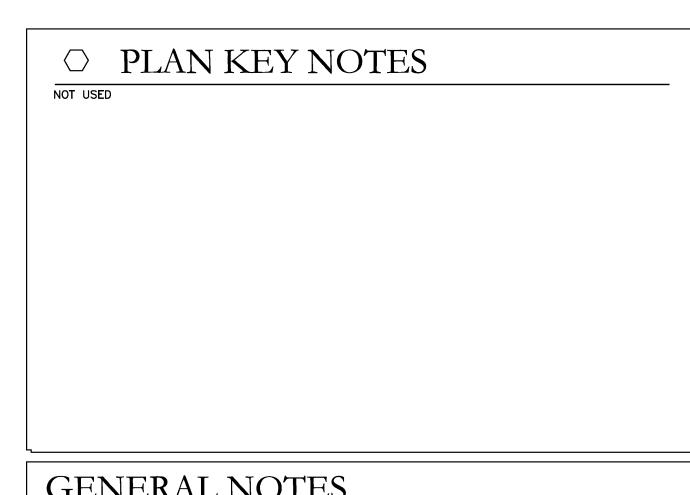


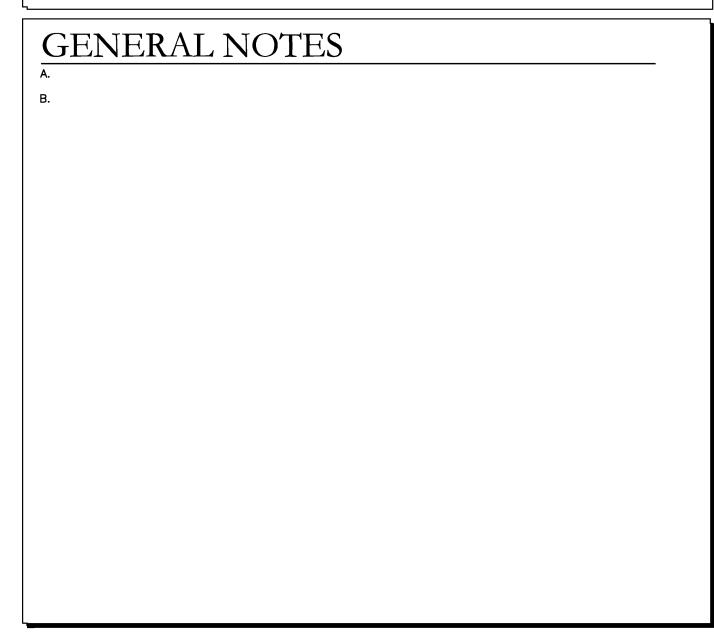
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PLUMBING PIPING -PART B









WALL LEGEND-NOTED SHEETS

\$555 555 852 852 85E 55E 55E 55S 35S 35S

esdie esdie esdie e

ESSE 1 20080 1 30000 1 5000

2000200 | 1 2000200 | 1 20002000

CORRIDOR)  MOKE—RESISTIVE PARTITION  FUITE)  MOKE RESISTIVE PARTITION  NCIDENTAL USE)  HOUR SMOKE BARRIER  MOKE COMP. SEPARATION)  HOUR FIRE BARRIER  NCIDENTAL USE)  HOUR FIRE WALL  POSITIVE LATCH, VO CLOSER, NO DAMPERS  (4TH)  POSITIVE LATCH, 45—MIN, CLOSER, NO DAMPERS IF HARD DUCTED  (2ND)  HOUR FIRE WALL			
MOKE RESISTIVE PARTITION NCIDENTAL USE)  -HOUR SMOKE BARRIER MOKE COMP. SEPARATION)  -HOUR FIRE BARRIER NCIDENTAL USE)  -HOUR FIRE BARRIER NCIDENTAL USE)  -HOUR FIRE WALL EMU CONSTR./STR. INDEPENDENT)  POSITIVE LATCH, CLOSER, NO DAMPERS  (4TH)  20 MIN, CLOSER, S DAMPERS  (3RD)  POSITIVE LATCH, 45-MIN, CLOSER, NO DAMPERS IF HARD DUCTED  (2ND)  POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS  (1ST)	MOKE-RESISTIVE PARTITION CORRIDOR)		(6TH)
POSITIVE LATCH, CLOSER, NO DAMPERS  (4TH)  -HOUR SMOKE BARRIER  MOKE COMP. SEPARATION)  -HOUR FIRE BARRIER  POSITIVE LATCH, CLOSER, NO DAMPERS  (3RD)  -HOUR FIRE BARRIER  POSITIVE LATCH, 45—MIN, CLOSER, NO DAMPERS IF HARD DUCTED  (2ND)  -HOUR FIRE WALL  EMU CONSTR./STR. INDEPENDENT)  POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS  (1ST)	MOKE—RESISTIVE PARTITION SUITE)		(5TH)
MOKE COMP. SEPARATION)  -HOUR FIRE BARRIER  NCIDENTAL USE)  -HOUR FIRE WALL  POSITIVE LATCH, 45-MIN, CLOSER, NO DAMPERS IF HARD DUCTED  POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS  MU CONSTR./STR. INDEPENDENT)  (3RD)  POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS  (1ST)	MOKE RESISTIVE PARTITION NCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)
NCIDENTAL USE)  DAMPERS IF HARD DUCTED  (2ND)  HOUR FIRE WALL  POSITIVE LATCH, 90 MIN, CLOSER, F/S  MU CONSTR./STR. INDEPENDENT)  POSITIVE LATCH, 90 MIN, CLOSER, F/S  DAMPERS  (1ST)	—HOUR SMOKE BARRIER SMOKE COMP. SEPARATION)	20 MIN, CLOSER, S DAMPERS	(3RD)
MU CONSTR./STR. INDEPENDENT)  DAMPERS  (1ST)	-HOUR FIRE BARRIER NCIDENTAL USE)		(2ND)
SHEETS FOR SOUND WALL LOCATIONS.	-HOUR FIRE WALL CMU CONSTR./STR. INDEPENDENT)		(1ST)
	D SHEETS FOR SOUND WALL LOCAT	IONS.	

DOOR/DAMPER INFO.





A	B
KEY	PLAN

PLUMBING PIPING - PART D

FUTURE EXPANSION

PART B
PART D

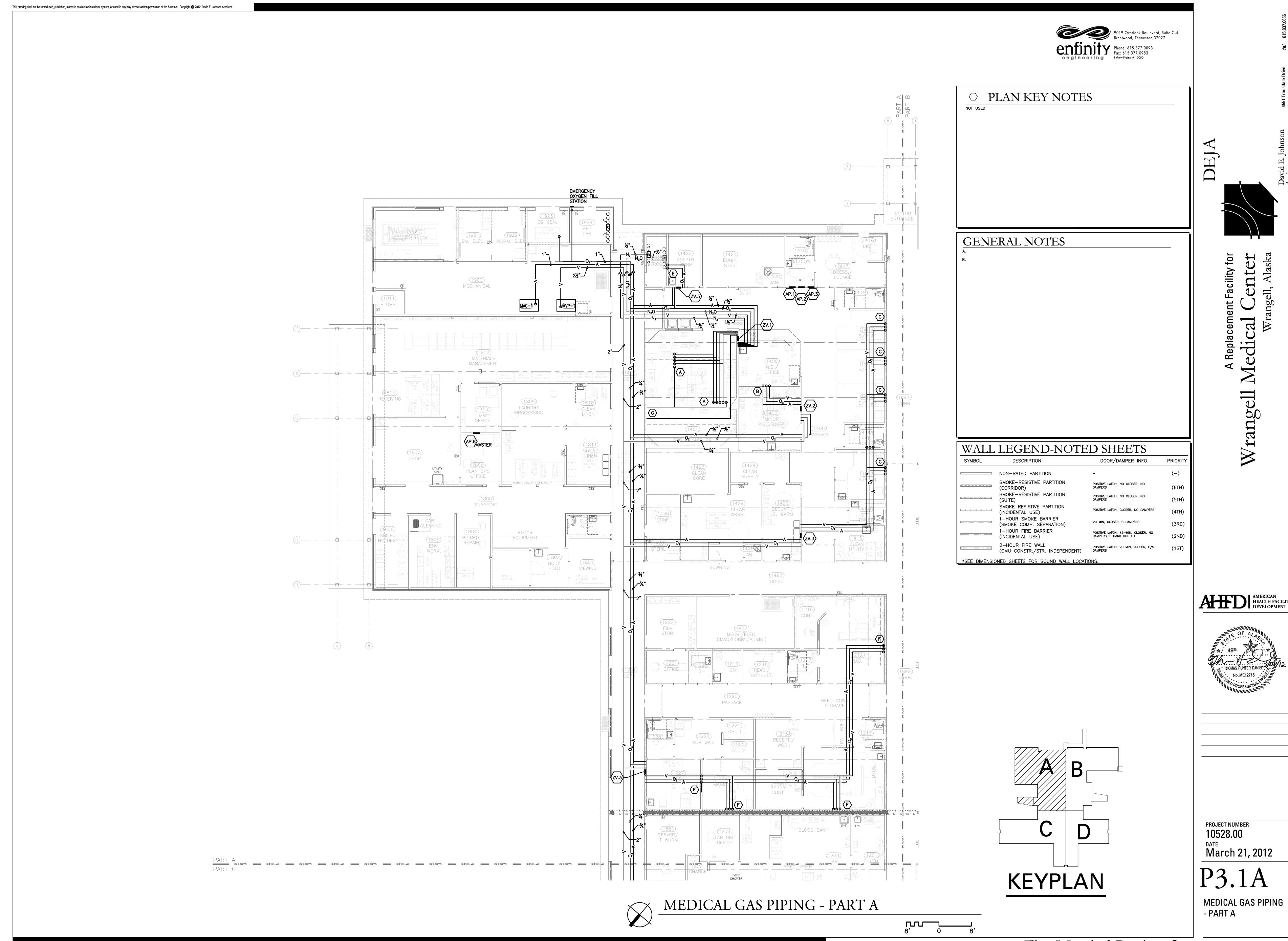
REFER TO ENLARGED PLAN ON SHEET P4.1

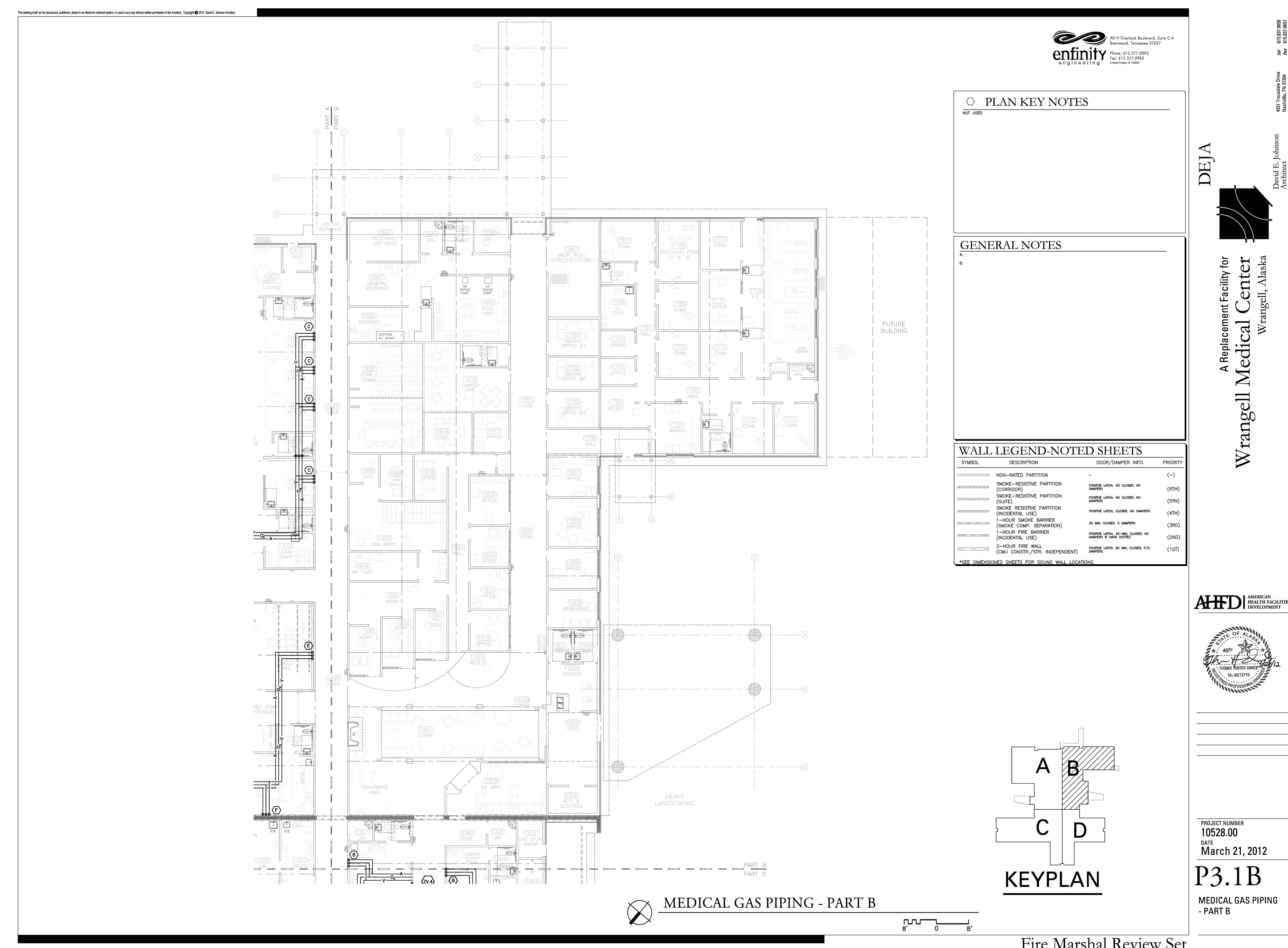
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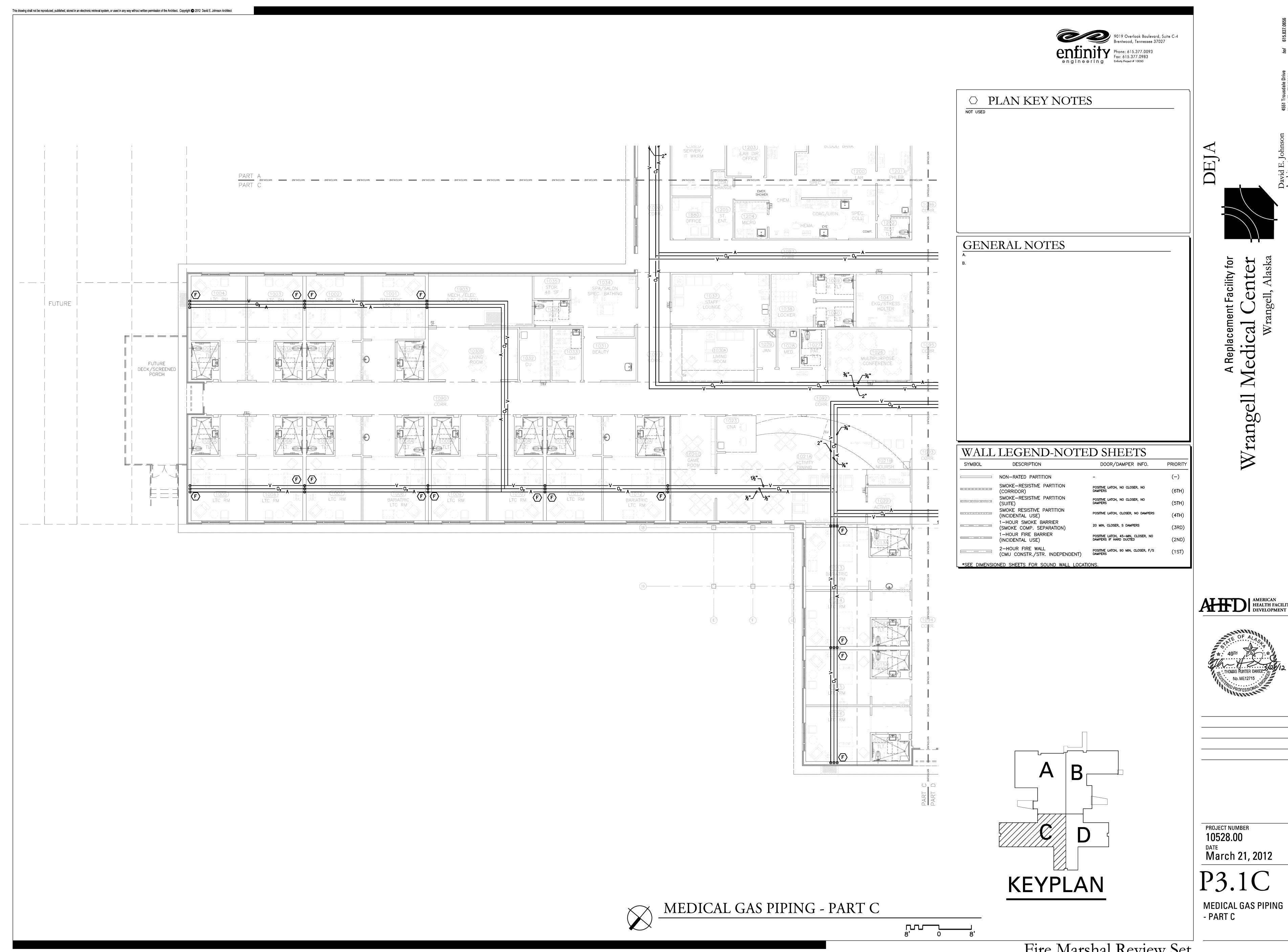
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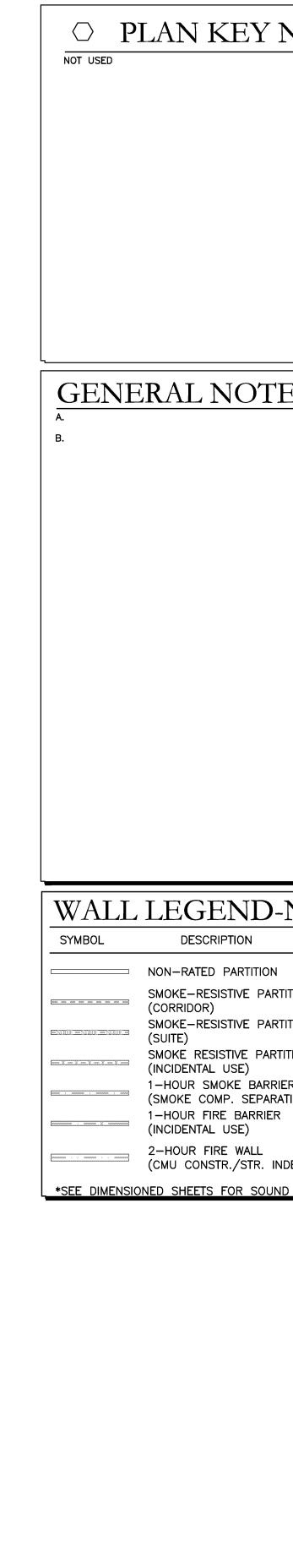
PLUMBING PIPING -PART D



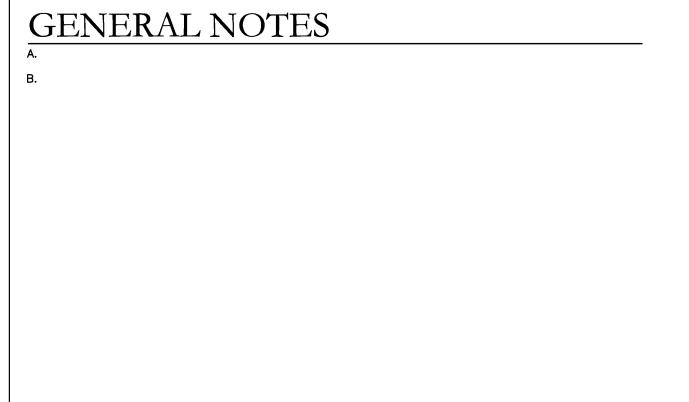








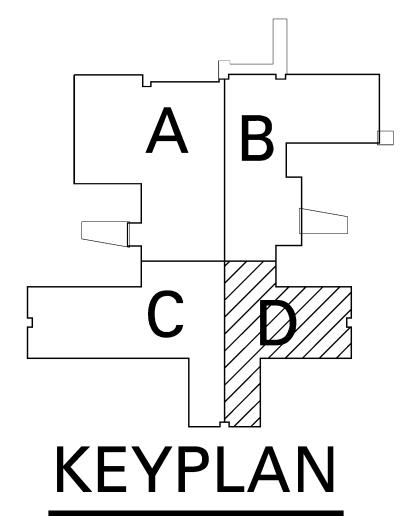
○ PLAN KEY NOTES



SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORIT
	NON-RATED PARTITION	-	(-)
266 166 766 766 766 766 807 166 766 866 866	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)
	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)
	SMOKE RESISTIVE PARTITION (INCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)
900000 900000	1-HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN, CLOSER, S DAMPERS	(3RD)
	1-HOUR FIRE BARRIER (INCIDENTAL USE)	POSITIVE LATCH, 45-MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)
pobosone ( ) habosses ( ) habosses	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS	(1ST)







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P3.1D

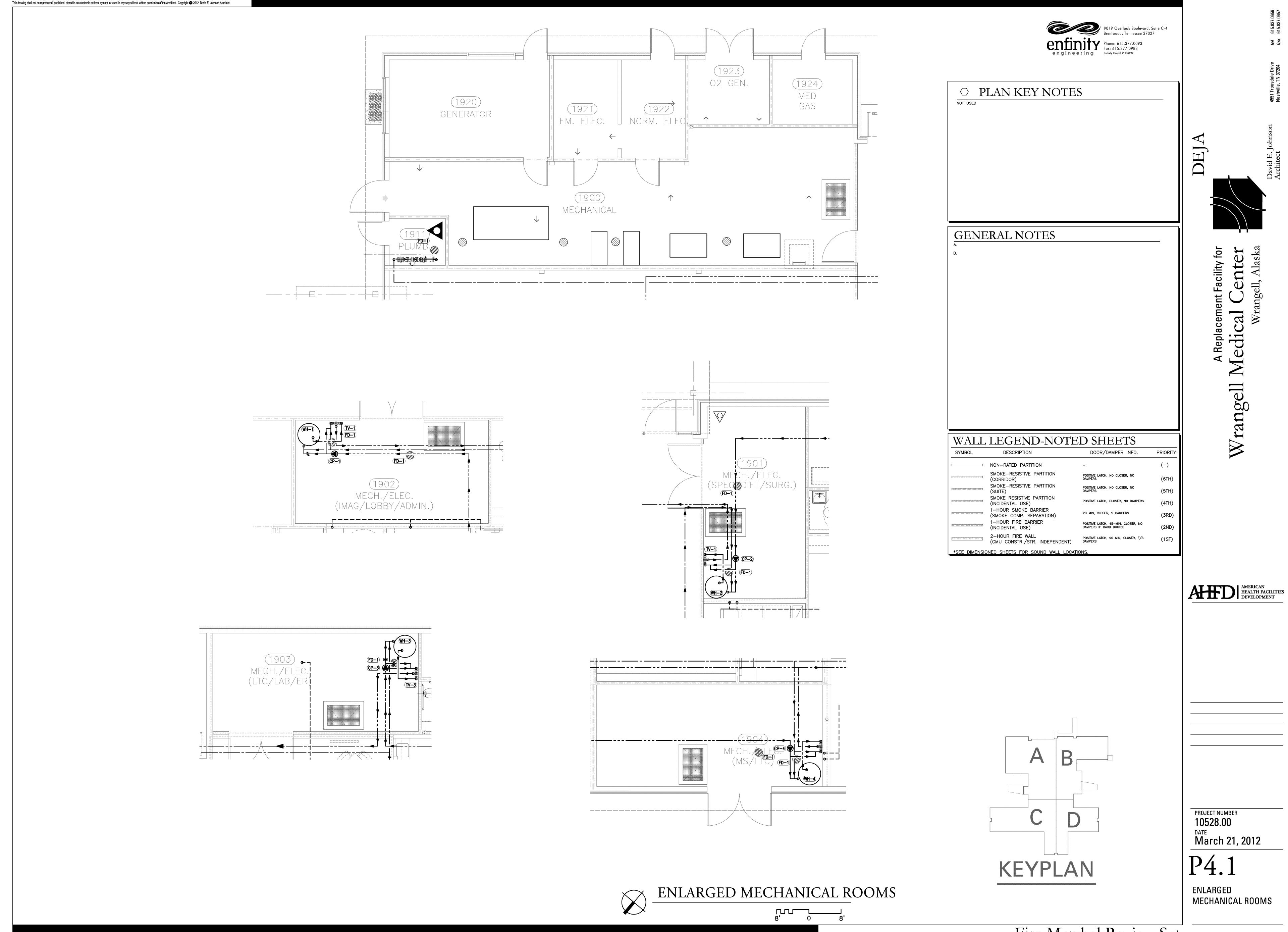
MEDICAL GAS PIPING - PART D

PART B
PART D

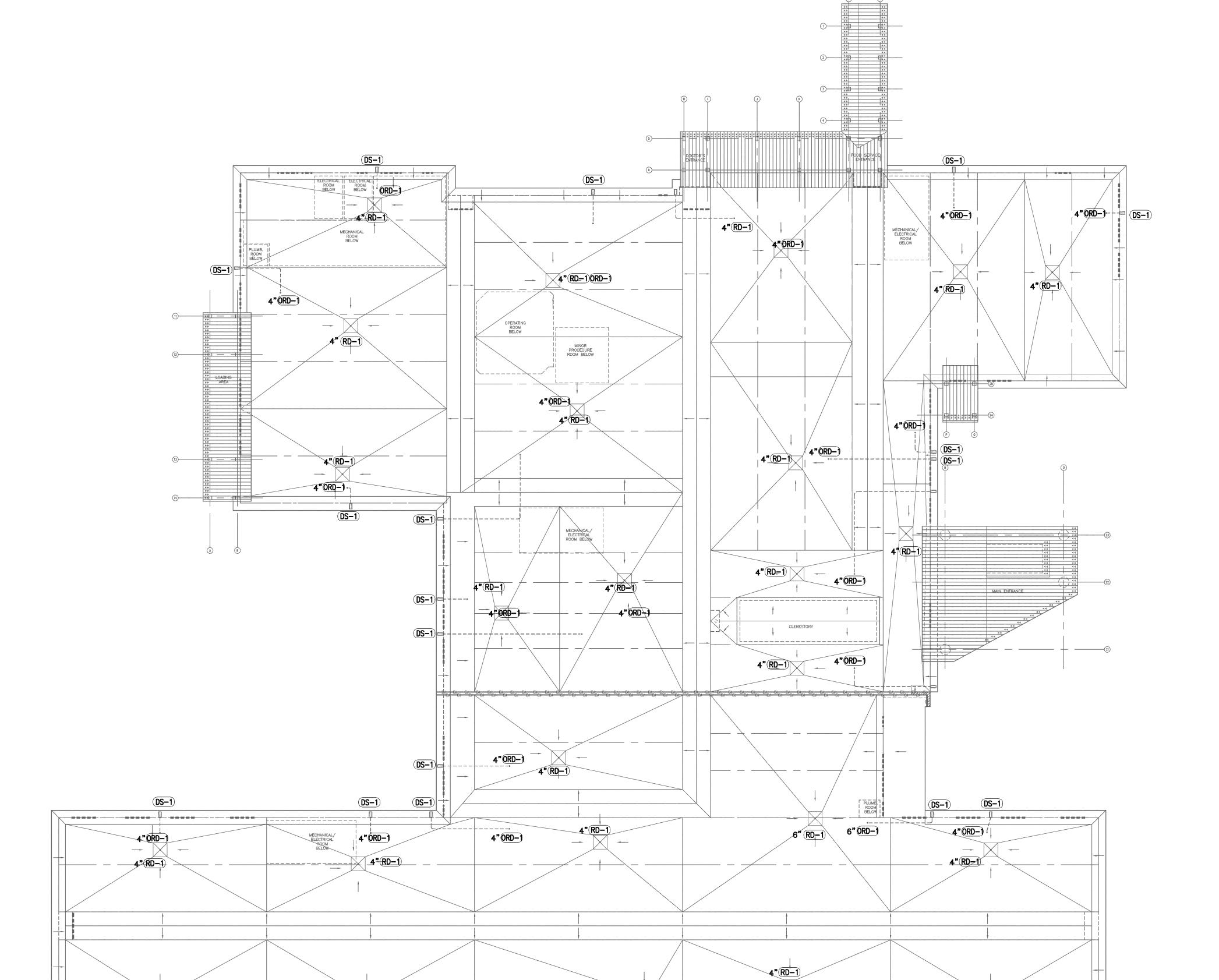
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MEDICAL GAS PIPING - PART D

FUTURE EXPANSION

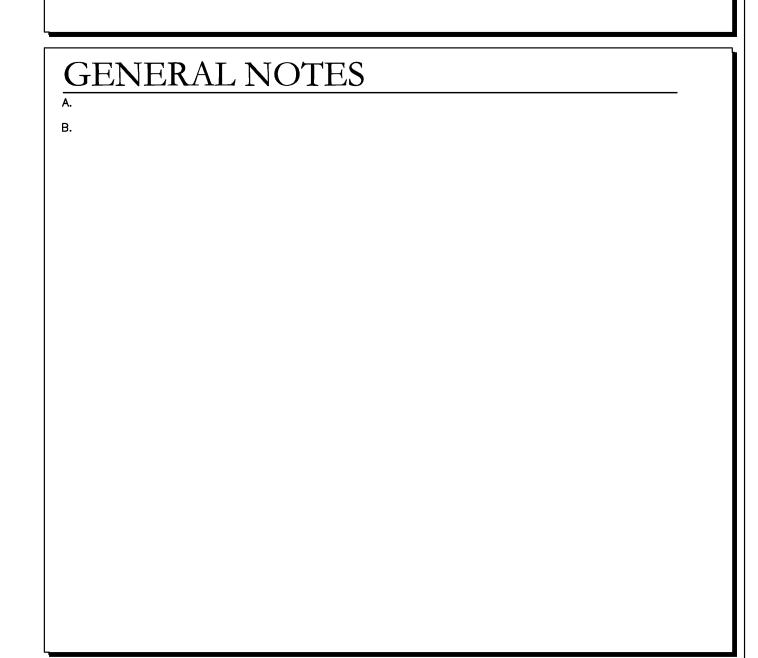






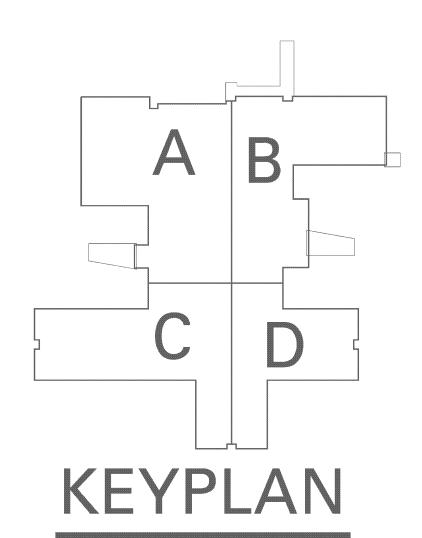
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NOT USE	ED						



WALL LEGEND-NOTED SHEETS						
SYMBOL	DESCRIPTION	DOOR/DAMPER INFO.	PRIORITY			
	NON-RATED PARTITION	-	(-)			
Season 200200 602000 102220	SMOKE-RESISTIVE PARTITION (CORRIDOR)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(6TH)			
eccessocces	SMOKE-RESISTIVE PARTITION (SUITE)	POSITIVE LATCH, NO CLOSER, NO DAMPERS	(5TH)			
Economic Transport State Consessed	SMOKE RESISTIVE PARTITION (INCIDENTAL USE)	POSITIVE LATCH, CLOSER, NO DAMPERS	(4TH)			
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	1—HOUR SMOKE BARRIER (SMOKE COMP. SEPARATION)	20 MIN, CLOSER, S DAMPERS	(3RD)			
	1-HOUR FIRE BARRIER (INCIDENTAL USE)	POSITIVE LATCH, 45-MIN, CLOSER, NO DAMPERS IF HARD DUCTED	(2ND)			
00000000000000000000000000000000000000	2-HOUR FIRE WALL (CMU CONSTR./STR. INDEPENDENT)	POSITIVE LATCH, 90 MIN, CLOSER, F/S DAMPERS	(1ST)			
*SEE DIMENSIONED SHEETS FOR SOUND WALL LOCATIONS.						





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P5.1

PLUMBING ROOF PLAN



