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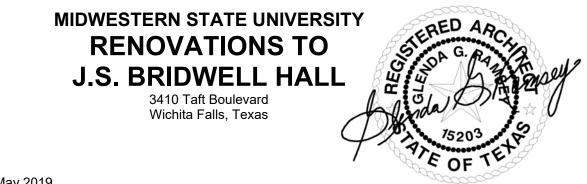
HARPER PERKINS ARCHITECTS, INC.

4724 Old Jacksboro Highway Telephone 940.767.1421 Wichita Falls, Texas 76302-3599 Facsimile Number 940.397.0273

ADDENDUM NO. 3

To the Drawings and Project Manual dated 1 April 2019

for



Addendum Date: 30 May 2019

NOTICE TO PROPOSERS:

SIGNED: 30 May 2019

This Addendum will be considered a part of the Contract Documents for the above referenced project as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those in the original Contract Documents, this Addendum shall govern and take precedence.

Proposers are hereby notified that they shall make any necessary adjustments in their estimates on account of this Addendum. It will be construed that such Proposer's Competitive Sealed Proposal is submitted with full knowledge of all modifications and supplementary data specified herein.

<u>ITEM 1 - AD#3</u>: To the Project Manual, Sections 00100, <u>NOTICE TO CONTRACTORS</u>; and 00200, <u>INSTRUCTIONS FOR PROPOSERS</u>.

DELETE: The Bid Date of Tuesday, June 4 at 2:00 p.m.

ADD: The Bid Date shall be **Tuesday**, **June 11** at **2:00 p.m**.

<u>ADD</u>: As clarification, the Owner prefers electronic submission by email as the delivery method of the Competitive Sealed Proposals.

ITEM 2 - AD#3: To the Project Manual, Section 012100, ALLOWANCES.

<u>DELETE</u>: On page **012100-3**, under Part **3.3**(**A**), <u>Allowance No. 1</u>, the indication of a 5% Contingency Allowance. <u>ADD</u>: The Contingency Allowances for the Base Bid and Alternates shall be stipulated amounts and shall be as follows: <u>Base Bid</u> - \$50,000; <u>Alternate #1</u> - \$5,000; <u>Alternate #2</u> - \$5,000; <u>Alternate #3A</u> - \$5,000; <u>Alternate #3B</u> -\$10,000; and <u>Alternate #3C</u> - \$5,000.

ITEM 3 - AD#3: To the Drawings, Sheets ***A101**^{*}, ***First Floor Plan - New**^{*}; ***A102**^{*}, ***Second Floor Plan - New**^{*}; and ***A103**^{*}, ***Third Floor Plan - New**^{*}; and the Project Manual, Section **101000**, <u>VISUAL DISPLAY BOARDS</u>. <u>ADD</u>: An existing LCS Board is being relocated from another Building on Campus (GC to install) for use in ***Classroom 107T**^{*}.

<u>DELETE</u>: The Tack Boards (TB) indicated on the Drawings. No Tackboards shall be provided in this Project. <u>ADD</u>: As clarification, the LCS Marker Boards (LCS) shall be provided as follows (location, quantity, & size):

Base Bid: "Classroom 107W" (one Board – 16'-0" length), "Classroom 205" (three Boards – 8'-0" length; one Board – 10'-0" length), and "Classroom 209" (four Boards – 7'-0" length)

<u>Alternate #2</u>: "**Classroom 204**" (one Board – 12'-0" length; two Boards – 8'-0" length), and "**Classroom 208**" (one Board – 12'-0" length; two Boards – 8'-0" length)

<u>Alternate #3A</u>: "Science Lab 308A" (one Board – 16'-0" length and two Boards – 12'-0" length).

The final location of the Boards in each space shall be coordinated with the Architect and Owner prior to installation.

All Boards on the Second and Third Floors (Base Bid and Alternates) shall be Magnetic Glass Marker Boards, ¼" tempered, low-iron, extra clear, safety writing glass with polished edges; back-painted with specially formulated fade resistant, water resistant, and heat resistant paint. Provide one (1) dozen Rare Earth magnets with each Board.

ITEM 4 - AD#3: To the Drawings, Sheet "A401", Interior Elevations "A401-01"; "A401-02", and "A401-04". <u>ADD</u>: As clarification, the lavatories shown in the elevations are existing lavatories to be reused and either set in new countertops ("A401-01" and "A401-02") or relocated ("A401-04").

ITEM 5 - AD#3: To the Drawings, Sheets "AD101", "AD102", and "AD103", "Demolition Plans".

<u>ADD</u>: As clarification, the GC shall carefully coordinate all work involved on the Architectural Demolition work and the Mechanical/Electrical/Plumbing Demolition scope of work with the various trades/Sub-Contractors. ADD: As clarification, at areas in which new carpet tiles are the scheduled floor finish (refer to Section **099900**, **<u>FINISH SCHEDULE</u>**), the existing VCT shall remain in place and not be removed. The new carpet tiles will be installed over the existing VCT.

ITEM 6 - AD#3: To the Drawings and Addendum #2, Item #8.

DELETE: Mechanical("M") Sheets "M0.2", "M1.1", "M1.2", "M1.3", "M2.1", "M2.2", and "M2.3".

<u>ADD</u>: Replacement **Mechanical** ("**M**") Sheets "**M0.2**", "**M1.1**", "**M1.2**", "**M1.3**", "**M2.1**", "**M2.2**", and "**M2.3**" included as a part of this Addendum. Several issues and questions have been addressed on these Drawings.

<u>DELETE</u>: Electrical ("E") Sheets "E0.1", "E1.1", "E1.2", "E1.3", "E2.1", "E2.2", and "E2.3".

<u>ADD</u>: Replacement **Electrical** ("E") Sheets "E0.1", "E1.1", "E1.2", "E1.3", "E2.1", "E2.2", and "E2.3" included as a part of this Addendum. Several issues and questions have been addressed on these Drawings.

<u>DELETE</u>: Plumbing ("P") Sheets "P101a", "P101b", "P102a", "P102b", "P103a", "P103b", "P201", "P202", "P203", and "P301".

<u>ADD</u>: Replacement **Plumbing** ("P") Sheets "**P101a**", "**P101b**", "**P102a**", "**P102b**", "**P103a**", "**P103b**", "**P201**", "**P202**", "**P203**", and "**P301** included as a part of this Addendum. Several issues and questions have been addressed on these Drawings.

ITEM 7 - AD#3: To the Drawings and Project Manual, Section 011000, <u>SUMMARY</u>, Part 1.7, and Addendum #2, Item #6.

ADD: Trash Dumpsters may be placed on the west side of the Building.

ITEM 8 - AD#3: To the Drawings and Project Manual, Section **221423**, **FACILITY NATURAL-GAS PIPING**. DELETE: This Section in its entirety. No new Gas Piping will be required for this Project.

ITEM 9 - AD#3: To the Drawings and Project Manual, Section **123480**, **WOOD LABORATORY CASWORK**, Part **3.5(D)(2)(b)**.

<u>DELETE</u>: The indication of a "gas cock". There will be no gas service to the Fume Hood or any Science Lab Equipment.

ITEM 10 - AD#3: To the Drawings and Project Manual, Sections 220719, PLUMBING PIPING INSULATION; and 221316, SANITARY WASTE AND VENT PIPING.

<u>ADD</u>: The Contractor shall have the option to provide Schedule 40 PVC piping for Sanitary Waste and Vent Piping in ceiling spaces/return air plenums in lieu of the specified Cast Iron piping. Exposed piping in the ceiling spaces/return air plenums shall be wrapped with flexible fire-resistant wrap equal to *3M* "Fire Barrier Plenum Wrap 5A+". Provide and install with accessories (tape, banding, etc.) as per the Manufacturer requirements. Piping that

is routed through concealed wall spaces in not required to have the fire-resistant wrap, however the wrap shall extend down into the wall as required to cover the portions of the piping that is in the return air plenum.

END OF ADDENDUM NO. 3

WATER HEATED VAV BOX SCHEDULE

	PREVIOUS		AIR VALVE (NOTE 1)				VALVEMIN.			Н	CONN.									
MARK	MARK (IF REUSED)	ТҮРЕ	DESIGN CFM	O/A	INLET SIZE	MAX CFM	SETTING (CFM)	HEAT CFM	FAN CFM	FAN AMPS	FAN HP	EXT. S.P.	HEATER MBH	GPM	LVG.WTR Temp.	VOLTS	Ph.	MANUF. AND MODEL	REMARKS	
FP-24	N/A	PARALLEL FAN POWERED	390	80	8" DIA.	630	105	205	100.0	2.2	1/10	0.5	6.3	0.6	160	120	1	ENVIRO-TEC VFR	1 - 6	
FPRH-2	N/A	PARALLEL FAN POWERED	185	25	6" DIA.	330	60	160	100.0	0.8	1/25	0.5	5.5	0.6	160	120	1	ENVIRO-TEC VFR	1 - 6	
FPRH-10	N/A	PARALLEL FAN POWERED	1,410	190	12" DIA.	1,500	240	840	600.0	3.7	1/8	0.5	27.9	2.8	160	120	1	ENVIRO-TEC VFR	1 - 6	
FPRH-12	N/A	PARALLEL FAN POWERED	330	35	6" DIA.	330	60	160	100.0	2.2	1/10	0.5	5.5	0.6	160	120	1	ENVIRO-TEC VFR	1 - 6	

1. CFM RANGE REFERS TO THE RANGE OF CAPABILITY FOR THIS AIRVALVE SIZE. IT IS NOT A MINIMUM / MAXIMUM SETTING. 2. PROVIDE SINGLE POINT ELECTRICAL CONNECTION (INCLUDE FACTORY-MOUNTED DISCONNECT SWITCH).

3. THE TAP- OFF- MAIN (TO RUN-OUT DUCT) SHALL BE ONE-SIZE LARGER THAN THE SCHEDULED BOX SIZE, UNLESS OTHERWISE INDICATED.

TRANSITION TO BOX INLET SIZE DUCT A MINIMUM OF 4 DIAMETERS FROM THE BOX INLET, OR AS OTHERWISE RECOMMENDED BY MNFR.

PROVIDE HIGH PRESSURE FLEX. CONN'X. (MAX. 2FT. LENGTH), AND APPROVED MEDIUM PRESSURE CONICAL TAPS. 4. PROVIDE RECOMMENDED MAINTENANCE CLEARANCES. INCLUDE ACCESS PANELS (IN WALLS ABOVE CEILINGS, ETC.) AS REQ'D.

5. PROVIDE DDC CONTROL MODULE AS REQUIRED TO INTERFACE WITH BUILDING DDC CONTROL SYSTEM.

6. PROVIDE 1" FOIL-FACED INSULATION ON ALL INTERIOR SURFACES OF BOX, MINIMUM R VALUE 4.3.

DX MINI SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK		FAN COIL UNIT								AIR COOLED CONDENSING UNIT									COOL										
AHU-	SERVES				0/A	FX.	т РС	OWE	RCONNECTI		UFACTURER	COMP	REF.	FΔN	POV	VER	CONNE	ECTION	HEATI	NG CAP	ACITY	MANUFACTURER	CAPAC		0.D.	ENTE	RING	MIN	REMARKS
CU-		ARRANGEMENT	NO.		CFM		-	Р	h. MCA MC			NO.	TYPE	NO.	v	Ph	МСА	моср	O.D.	I.D.	CAP.	AND MODEL	(MBH	,	D.B.	D.B.	W.B .	SEER	
						0		· ·		51					••	• •••	MOA		D.B. F.	D.B. F.	MBH		TOTAL	SENS	F.	F.	F .		
1	TELE/COMM 1COMM1	WALL MOUNT	1	480	0	N/A	A 11	5	1 NOTE 5	CARF	RIER 40 MAQ	1	R-410A	1	115	1	15.0	20.0	19	70	12.0	CARRIER 38MAQ	12.0	12.0	105	76.0	58.8	14	1-8
2	TELE/COMM 2COMM1	WALL MOUNT	1	480	0	N/A	A 11	5	1 NOTE 5	CARF	RIER 40MAQ	1	R-410A	1	115	1	15.0	20.0	19	70	12.0	CARRIER 38MAQ	12.0	12.0	105	76.0	58.8	14	1-9
3	IT ROOM 2COMM2	WALL MOUNT	1	480	0	N//	A 11	5	1 NOTE 5	CARF	RIER 40MAQ	1	R-410A	1	115	1	15.0	20.0	19	70	12.0	CARRIER 38MAQ	12.0	12.0	105	76.0	58.8	14	1-9
4	IT ROOM 3COMM1	WALL MOUNT	1	480	0	N/A	A 11	5	1 NOTE 5	CARF	RIER 40MAQ	1	R-410A	1	115	1	15.0	20.0	19	70	12.0	CARRIER 38MAQ	12.0	12.0	105	76.0	58.8	14	1-9

1. SIZE, ROUTE, INSULATE AND PROVIDE APPURTENANCES FOR DX PIPING SYSTEMS, PER MANUFACTURER RECOMMENDATIONS. 2. LISTED CAPACITIES ARE FOR THE FAN COIL UNIT AND CONDENSER UNIT COMBINATION. UNITS SHALL PERFORM TO LISTED CAPACITIES.

3. PROVIDE DISCONNECT.

4. PROVIDE FILTER DRYER AND SIGHT GLASS ON THE DX LINES.

5. SYSTEM IS A SINGLE POINT POWER CONNECTION. CONDENSING UNIT POWERS ASSOCIATED FAN COIL UNIT(S) FROM TERMINAL STRIP LOCATED ON CONDENSING UNIT. FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES. 6. PROVIDE MOTOR RATED SWITCH AT AHU.

7. CARRIER IS THE BASIS FOR DESIGN. ACCEPTABLE ALTERNATE MANUFACTURER'S ARE: DAIKIN, MITSUBISHI, LG, AND SAMSUNG - NO EXCEPTIONS. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE. $\sqrt{3}$ 8. PROVIDE LOW AMBIENT COOLING KIT FOR COOLING DOWN TO 30°F.

9. PROVIDE MANUFACTURER'S CONDENSATE PUMP AT FAN COIL UNIT.

AIR DEVICE SCHEDULE

MARK	SERVES	FACE SIZE	MOUNTING	TYPE	MATERIAL	MANUFACTURER AND MODEL NO.	REMARK
А	SUPPLY	24" X 24"	SURFACE/LAY-IN	LOUVERED	STEEL	TITUS TDC	1-4
В	SUPPLY	12" X 6"	SURFACE / LAY-IN	BLADE	ALUMINUM	TITUS S300	1-3
С	RETURN	24" X 24"	SURFACE/LAY-IN	PERFORATED	STEEL	TITUS PAR	1-3
D	EXHAUST	24" X 24"	SURFACE/LAY-IN	PERFORATED	STEEL	TITUS PAR	1-3

1. COORDINATE FINISH WITH ARCHITECT.

2. SOUND VALUES SHALL NOT EXCEED 25 NC (ROOM), UNLESS OTHERWISE NOTED

3. TRANSITION FROM BACK OF GRILLE/DIFFUSER TO DUCT SIZE SHOWN. 4. PROVIDE INSULATION BLANKET ON BACK OF DIFFUSER

5. PROVIDE OPTIONAL AIR SCOOP.

EXHAUST FAN SCHEDULE

MARK	SERVES	TYPE	CFM	EXT. SP				DRIVE	dBA	WEIGHT	MANUFACTURER	REMARKS	
			01111	IN. WG	HP (WATTS) VOLTS PH			DIAVE	(SONES)	(lbs)	AND MODEL		
EF-10	SCIENCE LAB	ROOF	790	1.5	1/2	115	1	BELT	70.0	193	LOREN COOK CPV	1-10	
EF-11	LAB PURGE EXHAUST	ROOF	1,500	0.7	1/2	115	1	DIRECT	(14.25)	43	LOREN COOK 135R15D	1-6, 11	
EF-12	KEY CONTROL ROOM	INLINE	500	0.7	(250)	115	1	DIRECT	4.0	34	LOREN COOK GN-740	1-4, 12	

1. OR APPROVED EQUAL. 2. PROVIDE GRAVITY BACKDRAFT DAMPER.

3. PROVIDE INTEGRAL DISCONNECT.

4. PROVIDE SHADED POLE OR PERMANENT SPLIT CAPACITOR DIRECT DRIVE MOTOR AND FAN SPEED CONTROLLER.

5. PROVIDE FACTORY, LINED ROOF CURB WITH DAMPER TRAY.

6. PROVIDE ALUMINUM BIRDSCREEN.

7. FAN TO BE CONTROLLED BY EXHAUST HOOD SWITCH LOCATED AT LABORATORY HOOD 8. PROVIDE FLANGED CONNECTIONS FOR BOTH THE INLET AND OUTLET

9. FUME HOOD EXHAUST FAN, EPOXY COAT ALL PARTS THAT ARE IN THE AIRSTREAM

10. PROVIDE FAN WITH DRAIN 11. FAN TO ACTIVATE WHEN EMERGENCY SHUTOFF IS INITIATED IN SCIENCE LAB.

12. FAN TO OPERATE VIA WALL SWITCH.

	LOUVER SCHEDULE										
MARK	SERVES	EXT. S.P. IN. W.G.	WIDTH IN.	height In.	FREE AREA FT2	MANUFACTURER AND MODEL NO.	REMARKS				
L-2	EXISTING VENTILATION	0.05	18	18	0.62	RUSKIN ELF6375DX	1-3				

1. VERIFY FINISH WITH ARCHITECT BEFORE ORDERING

2. OR APPROVED EQUAL. 3. PROVIDE A LUMINUM INSECT SCREEN.



				IG VAV	-	
MARK	INLET SIZE	DESIGN CFM	0/A	SETTING (CFM)	HEAT CFM	F
FP-4	6	200	50	60	160	
FP-5	12	1,380	285	240	940	
FP-6	6	305	65	60	160	
FP-8	6	250	70	70	270	
FP-9	6	390	75	60	160	
FP-10	6	390	75	60	160	
FP-11	6	530	100	60	160	
FP-12	6	530	100	60	160	
FP-13	6	340	90	60	310	
FP-15	8	490	50	105	405	
FP-20	10	1,040	265	165	465	
FP-25	6	50	10	60	160	
FP-26	6	150	30	60	160	
RH-8	6	280	20	60	150	
RH-9	8	390	25	105	200	
RH-10	8	560	50	105	300	
RH-11	5	140	25	60	100	
RH-12	6	215	55	60	130	
RH-13	5	130	25	60	100	
RH-14	10	670	145	165	350	
RH-25	6	235	30	60	140	
RH-26	6	235	30	60	140	
RH-37	5	160	15	60	90	
RH-38	6	175	25	60	90	
RH-41	6	305	45	60	150	
RH-47	6	290	45	60	150	
RH-55	5/6	105	30	60	60	
RH-59	5/6	170	45	60	60	
RH-60	5/6	160	40	60	60	
FPRH-4	10	870	115	165	565	
FPRH-8	10	765	100	165	565	
FPRH-9	10	765	100	165	565	
FPRH-13	12	1,025	135	240	640	

1. CFM RANGE REFERS TO THE RANGE OF CAPABILITY FOR THIS AIRVALVE SIZE. IT IS NOT A MINIMUM / MAXIMUM SETTING. 2. PROVIDE RECOMMENDED MAINTENANCE CLEARANCES. INCLUDE ACCESS PANELS (IN WALLS ABOVE CEILINGS, ETC.) AS REQ'D.



IRFLOW SCHEDULE TING PERFORMANCE (HW) POWER CONN. HEATER MBH REMARKS GPM FAN CFM VOLTS Ph. 100 4.6 0.5 120 1,2 700 25.7 2.6 120 1 1,2 100 4.6 0.5 120 1 1,2 200 7.4 0.7 120 1 1,2 1,2 100 4.6 0.5 120 1 120 1 100 4.6 0.5 1,2 120 1 100 4.6 0.5 1,2 120 1 100 4.6 0.5 1,2 120 1 250 8.2 0.8 1,2 300 11.1 1.1 120 1 1,2 300 13.4 1.3 120 1 1,2 100 4.6 0.5 120 1 1,2 100 5.5 0.6 120 1 1,2 0 6.5 0.6 120 1 1,2 0 8.6 0.9 120 1 1,2 0 13.0 1.3 120 1 1,2 0 4.3 0.4 120 1 1,2 0 5.6 0.6 120 1 1,2 0 4.3 0.4 120 1 1,2 0 15.1 1.5 120 1 1,2 0 6.0 0.6 120 1 1,2 0 6.0 0.6 120 1 1,2 0 3.9 0.4 120 1 1,2 3.9 0.4 0 120 1 1,2 0 6.5 0.6 120 1 1,2 120 1 0 6.5 0.6 1,2 2.6 0.3 120 1 0 1,2 0 2.6 0.3 120 1 1,2 0 2.6 0.3 120 1 1,2 400 18.8 1.9 120 1 1,2 400 18.8 1.9 120 1 1,2 400 18.8 1.9 120 1 1,2 400 22.0 2.2 120 1 1,2



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DATE: 1 APRIL 2019 REVISIONS NO. DATE DESCRIPTION 1. ADDENDUM #1 05/17/19 3. ADDENDUM #3 05/28/19



) HARPER PERKINS ARCHITECTS

Texas BPE Registration # F-207 1300 Summit Avenue Suite 500 Fort Worth, Texas 76102 Office 817.878.4242 www.summitmep.com

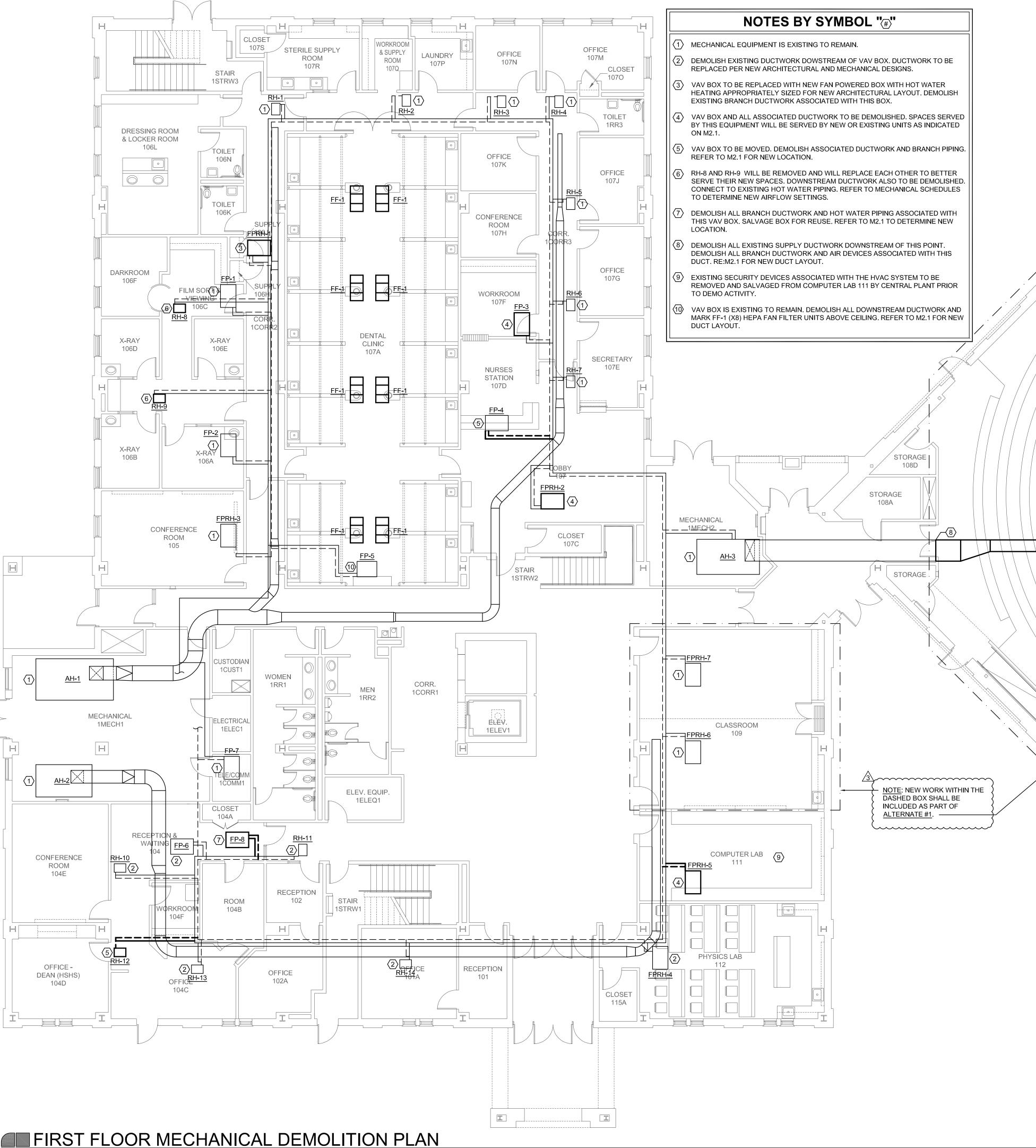
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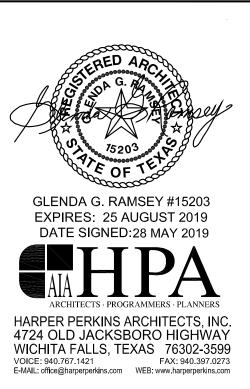
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CONSULTANTS, INC.

4144 N. Central Expwy Suite 635 Dallas, Texas 75204 Office 214.420.9111





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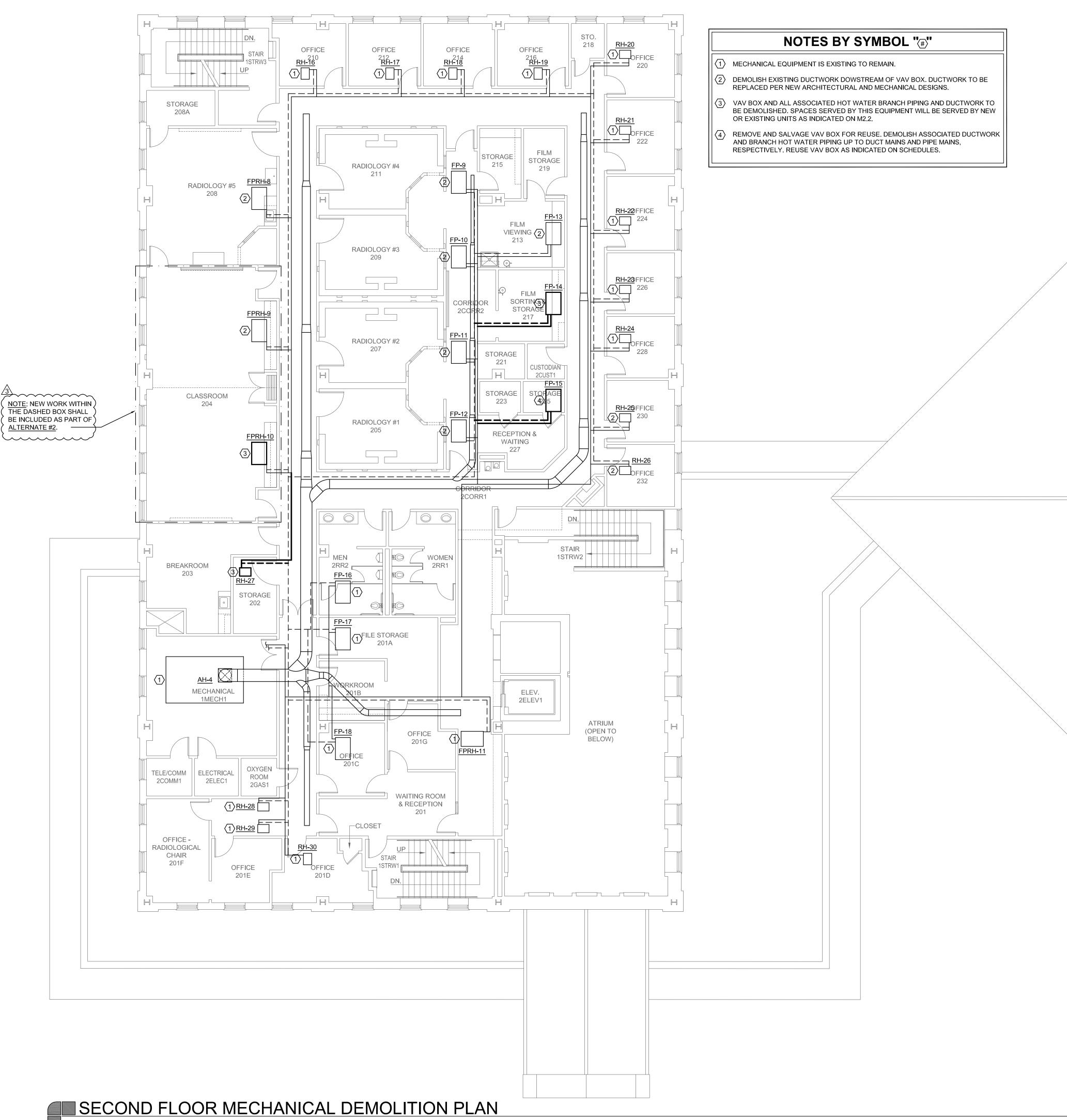
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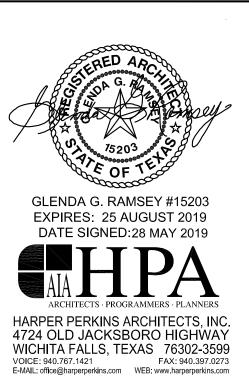
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C) HARPER PERKINS ARCHITECTS

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1. ADDENDUM #1

3. ADDENDUM #3



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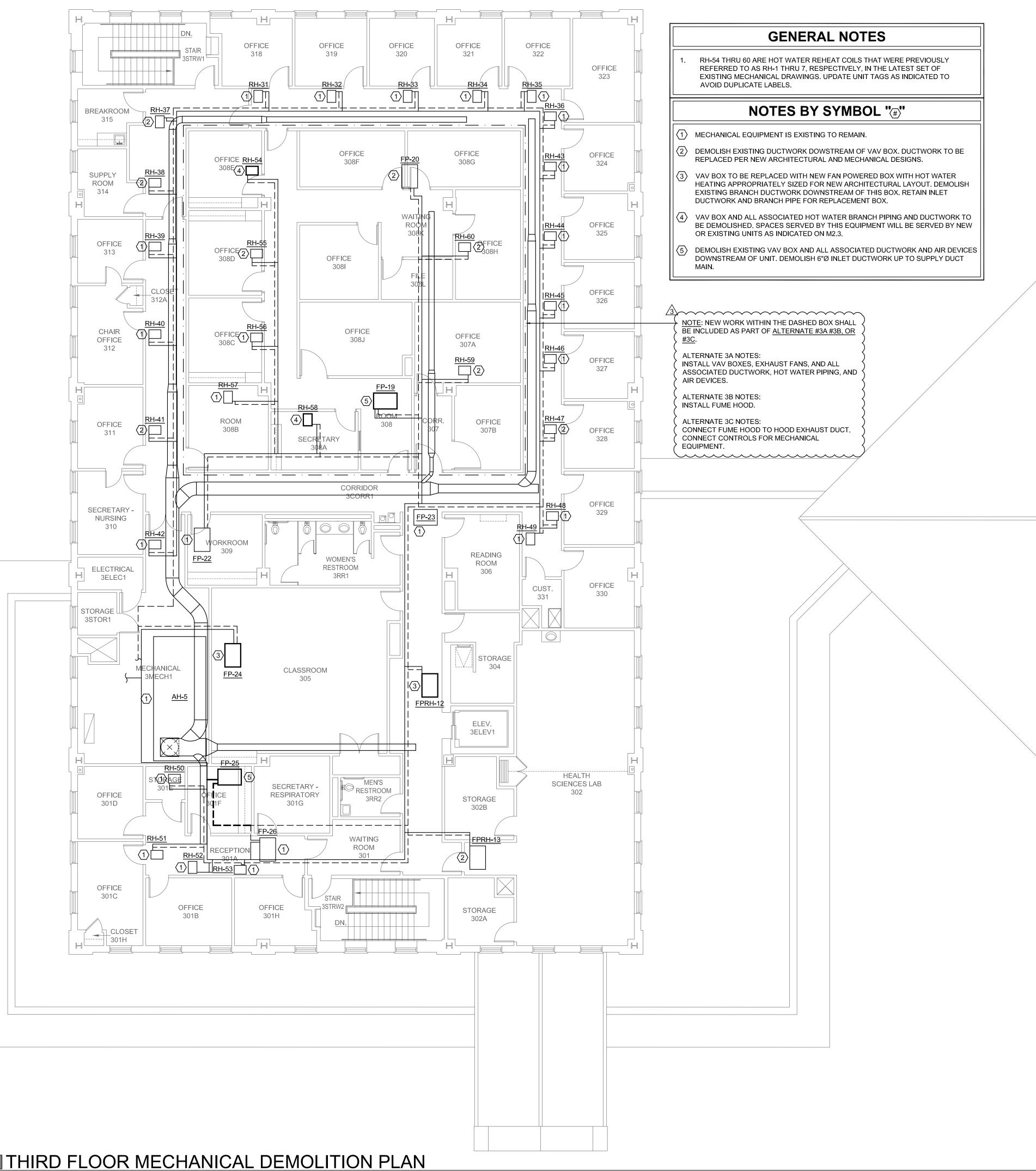
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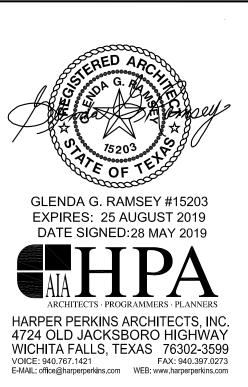
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Suite 635

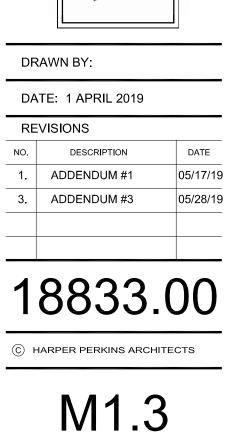


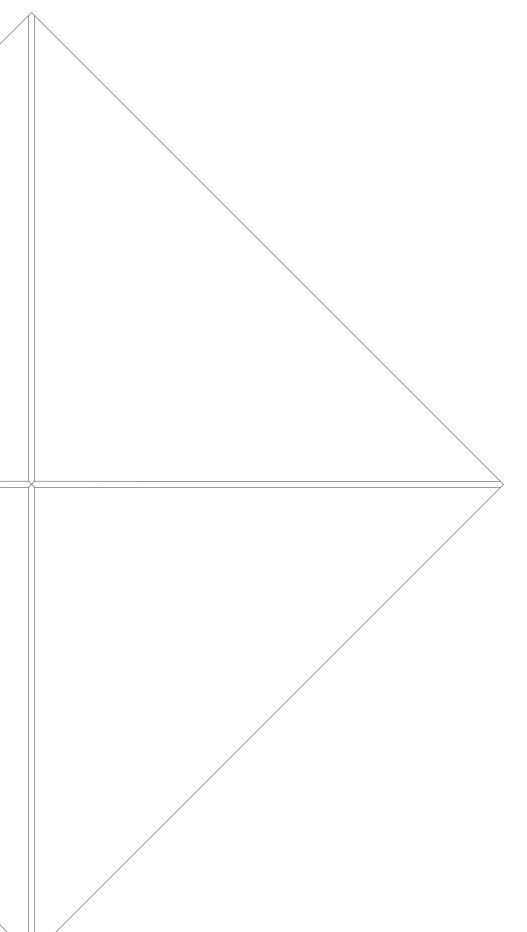


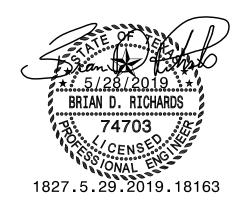


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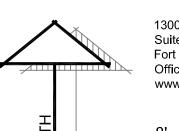


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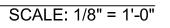
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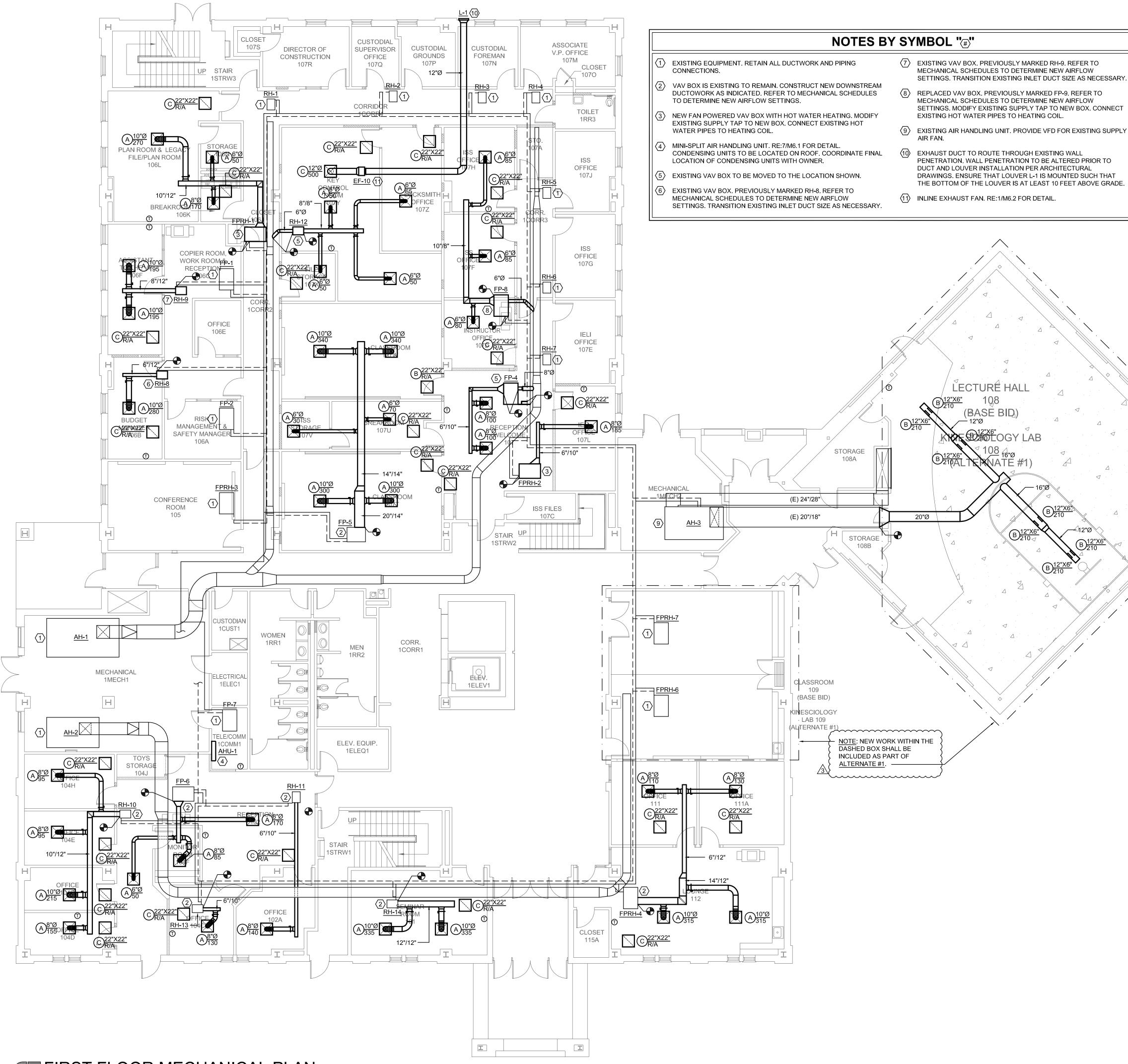


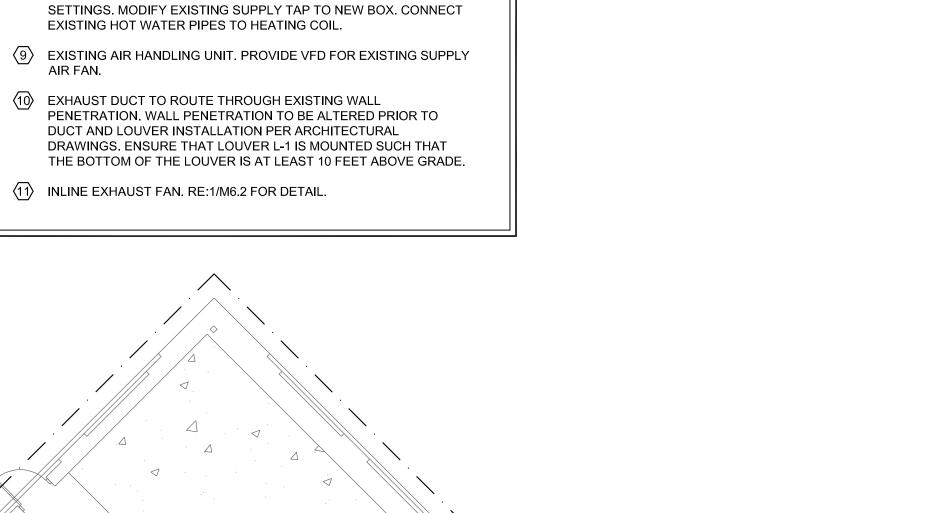


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FIRST FLOOR MECHANICAL PLAN





THE BOTTOM OF THE LOUVER IS AT LEAST 10 FEET ABOVE GRADE.

DUCT AND LOUVER INSTALLATION PER ARCHITECTURAL DRAWINGS. ENSURE THAT LOUVER L-1 IS MOUNTED SUCH THAT

E #1)

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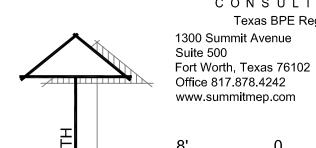
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C) HARPER PERKINS ARCHITECTS

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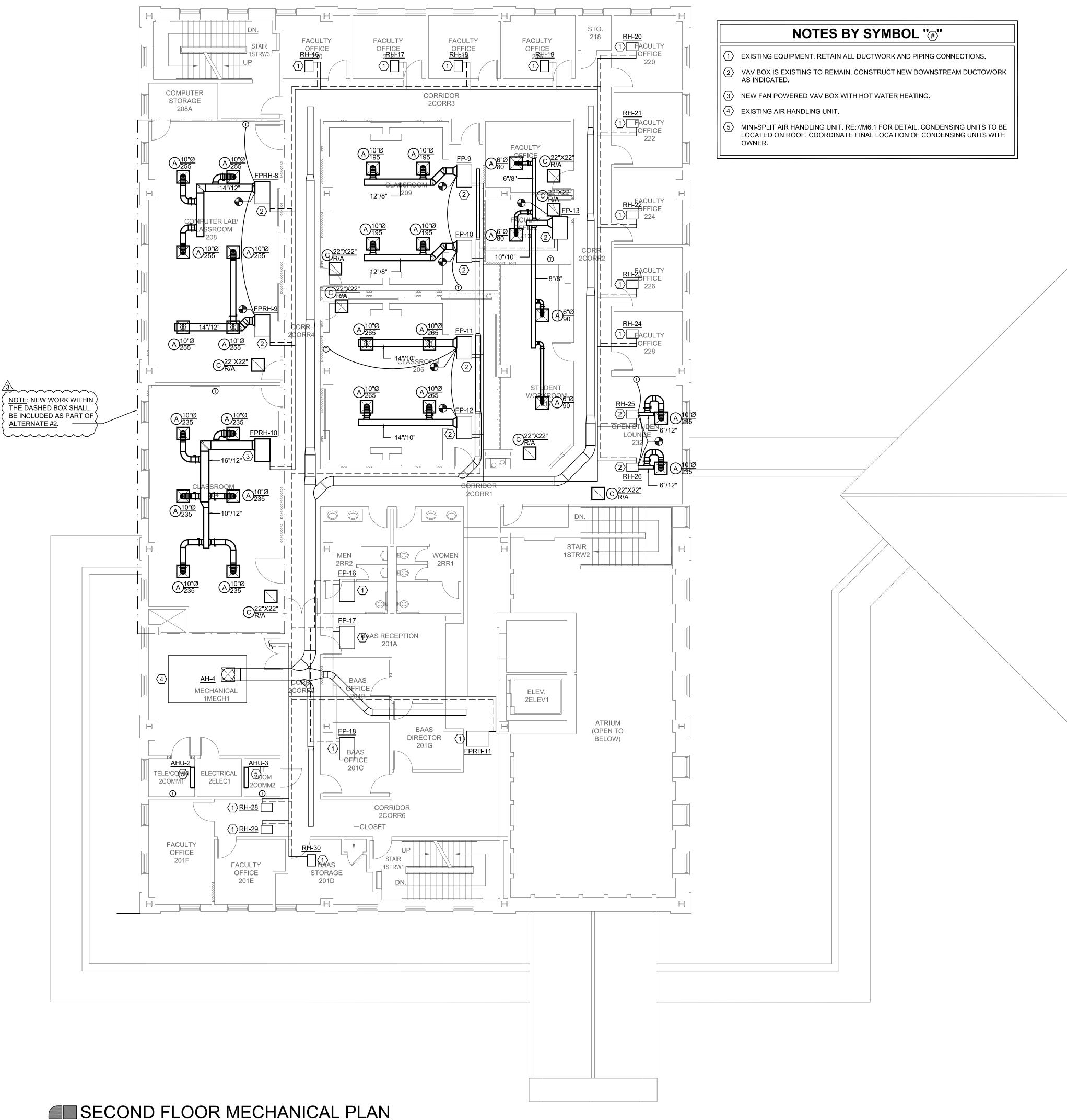
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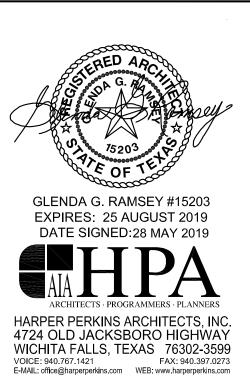
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Suite 635



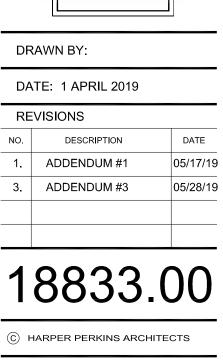
SECOND FLOOR MECHANICAL PLAN





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1/8" = 1'-0"

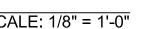
BRIAN D. RICHARDS

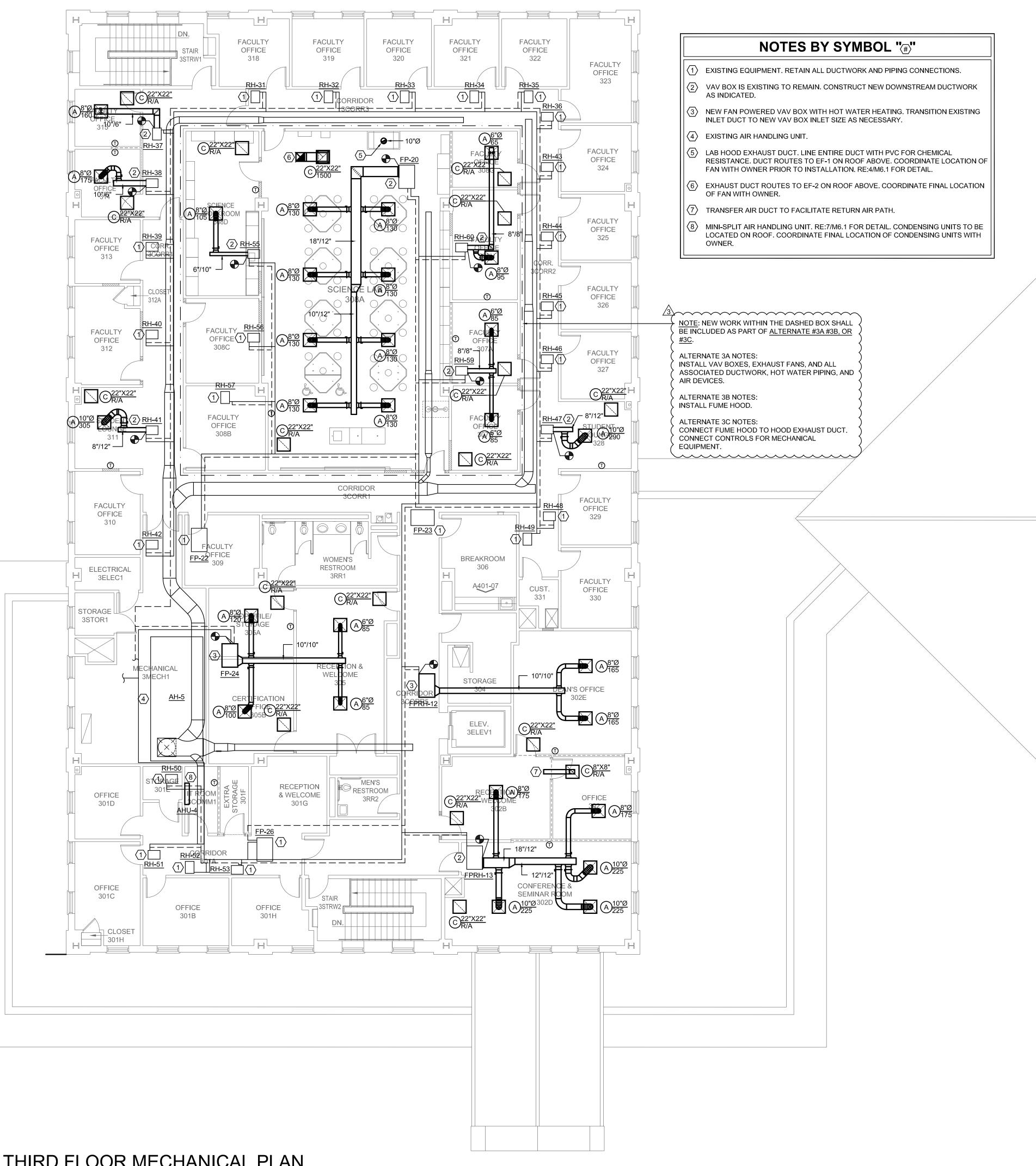


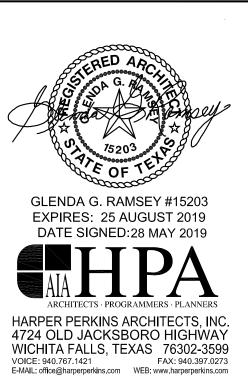




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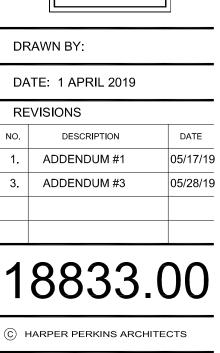




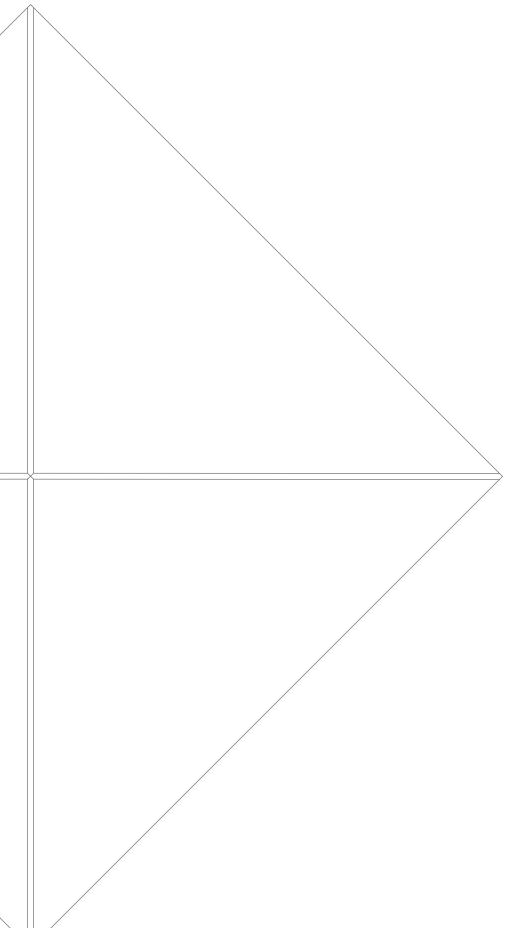


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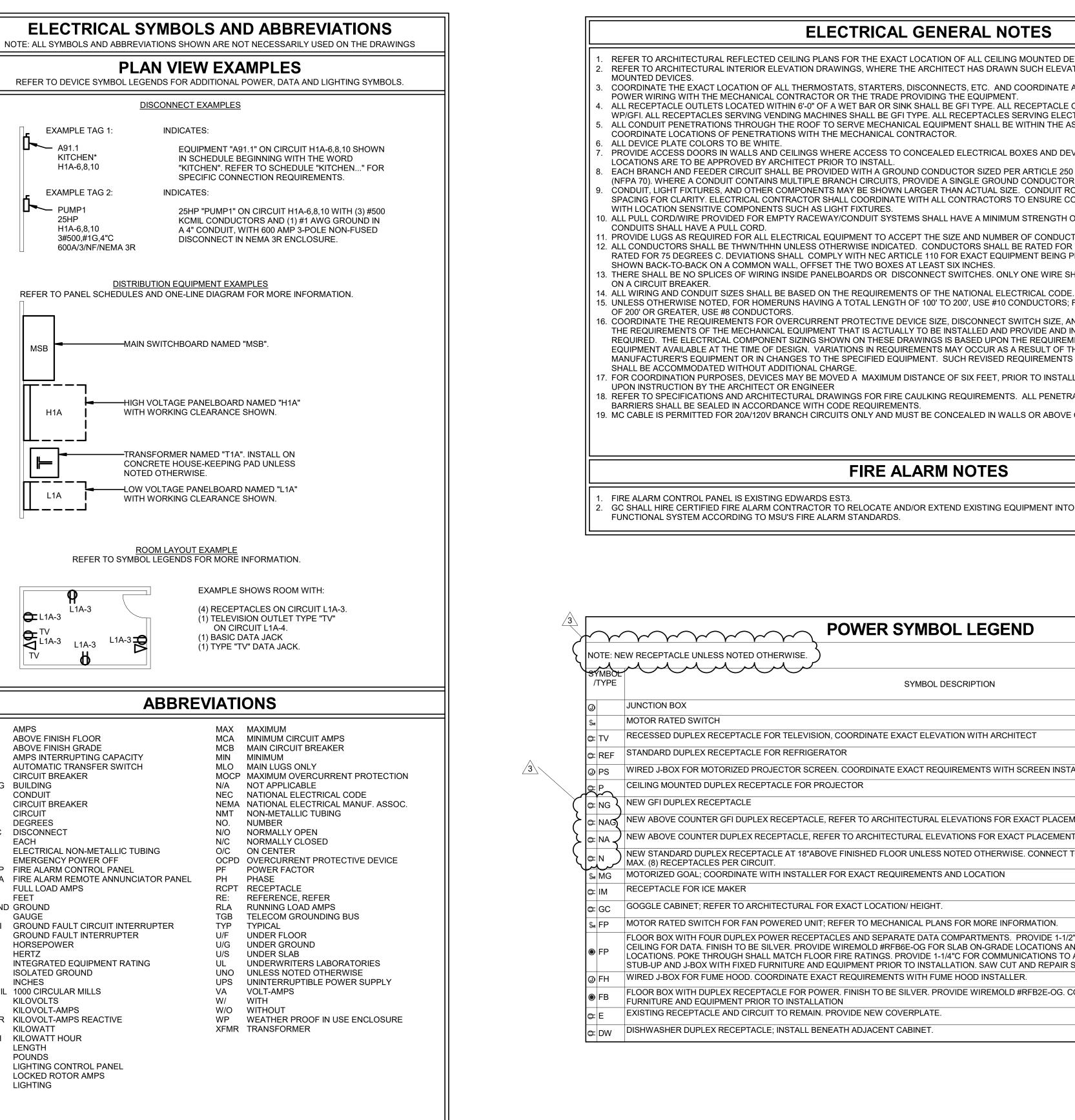
Suite 635

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Texas BPE Registration # F-207 1300 Summit Avenue Suite 500 4144 N. Central Expwy Fort Worth, Texas 76102 Dallas, Texas 75204 Office 817.878.4242 Office 214.420.9111 www.summitmep.com

1/8" = 1'-0"

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A AFF AFG AIC ATS BLDG C BCKT DISC EA ENO FACA FLA FT G,GN GFCI HZ IG N KCMIL KVA KVAR KWH LBS LCP LRA LTG	AMPS ABOVE FINIS ABOVE FINIS ABOVE FINIS AUTOMATIC CIRCUIT BRE BUILDING CONDUIT CIRCUIT BRE CIRCUIT DEGREES DISCONNECT EACH ELECTRICAL EMERGENCY FIRE ALARM FULL LOAD A FEET GROUND GAUGE GROUND FAU GROUND FAU G



ELECTRICAL GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS. WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL

COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND

ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BAR OR SINK SHALL BE GFI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WP/GFI. ALL RECEPTACLES SERVING VENDING MACHINES SHALL BE GFI TYPE. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE GFI TYPE. ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB.

PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED. ALL ACCESS

EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70). WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED. CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT

). ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY I. PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS. 12. ALL CONDUCTORS SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE

RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110 FOR EXACT EQUIPMENT BEING PROVIDED. WHERE RECEPTACLES ARE 13. THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES. ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG

15. UNLESS OTHERWISE NOTED, FOR HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH

16. COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND

7. FOR COORDINATION PURPOSES, DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF SIX FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER.

18. REFER TO SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR FIRE CAULKING REQUIREMENTS. ALL PENETRATIONS THROUGH FIRE WALLS AND SMOKE

19. MC CABLE IS PERMITTED FOR 20A/120V BRANCH CIRCUITS ONLY AND MUST BE CONCEALED IN WALLS OR ABOVE CEILING.

FIRE ALARM NOTES

GC SHALL HIRE CERTIFIED FIRE ALARM CONTRACTOR TO RELOCATE AND/OR EXTEND EXISTING EQUIPMENT INTO NEW SPACES AS REQUIRED FOR FULLY

POWER SYMBOL LEGEND

SYMBOL DESCRIPTION

WIRED J-BOX FOR MOTORIZED PROJECTOR SCREEN. COORDINATE EXACT REQUIREMENTS WITH SCREEN INSTALLER.

NEW ABOVE COUNTER GFI DUPLEX RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT

NEW ABOVE COUNTER DUPLEX RECEPTACLE, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT PLACEMENT

NEW STANDARD DUPLEX RECEPTACLE AT 18"ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. CONNECT TO NEAREST EXISTING RECEPTACLE CIRCUIT;

MOTOR RATED SWITCH FOR FAN POWERED UNIT; REFER TO MECHANICAL PLANS FOR MORE INFORMATION.

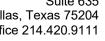
FLOOR BOX WITH FOUR DUPLEX POWER RECEPTACLES AND SEPARATE DATA COMPARTMENTS. PROVIDE 1-1/2" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING FOR DATA. FINISH TO BE SILVER. PROVIDE WIREMOLD #RFB6E-OG FOR SLAB ON-GRADE LOCATIONS AND #6ATC FOR ABOVE-GRADE POKE-THROUGH LOCATIONS. POKE THROUGH SHALL MATCH FLOOR FIRE RATINGS. PROVIDE 1-1/4"C FOR COMMUNICATIONS TO ACCESSIBLE AREA ABOVE CEILING. COORDINATE STUB-UP AND J-BOX WITH FIXED FURNITURE AND EQUIPMENT PRIOR TO INSTALLATION. SAW CUT AND REPAIR SLAB AS REQUIRED.

FLOOR BOX WITH DUPLEX RECEPTACLE FOR POWER. FINISH TO BE SILVER. PROVIDE WIREMOLD #RFB2E-OG. COORDINATE STUB-UP AND J-BOX WITH FIXED

05/28/2019 JAMES S. RUSE 102703 CENSE

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Suite 635 Office 214.420.9111





GLENDA G. RAMSEY #15203

EXPIRES: 25 AUGUST 2019

DATE SIGNED: 28 MAY 2019

HARPER PERKINS ARCHITECTS IN

4724 OLD JACKSBORO HIGHWAY

WICHITA FALLS, TEXAS 76302-3599 VOICE: 940.767.1421 FAX: 940.397.027 E-MAIL: office@harperperkins.com WEB: www.harperperkins.com

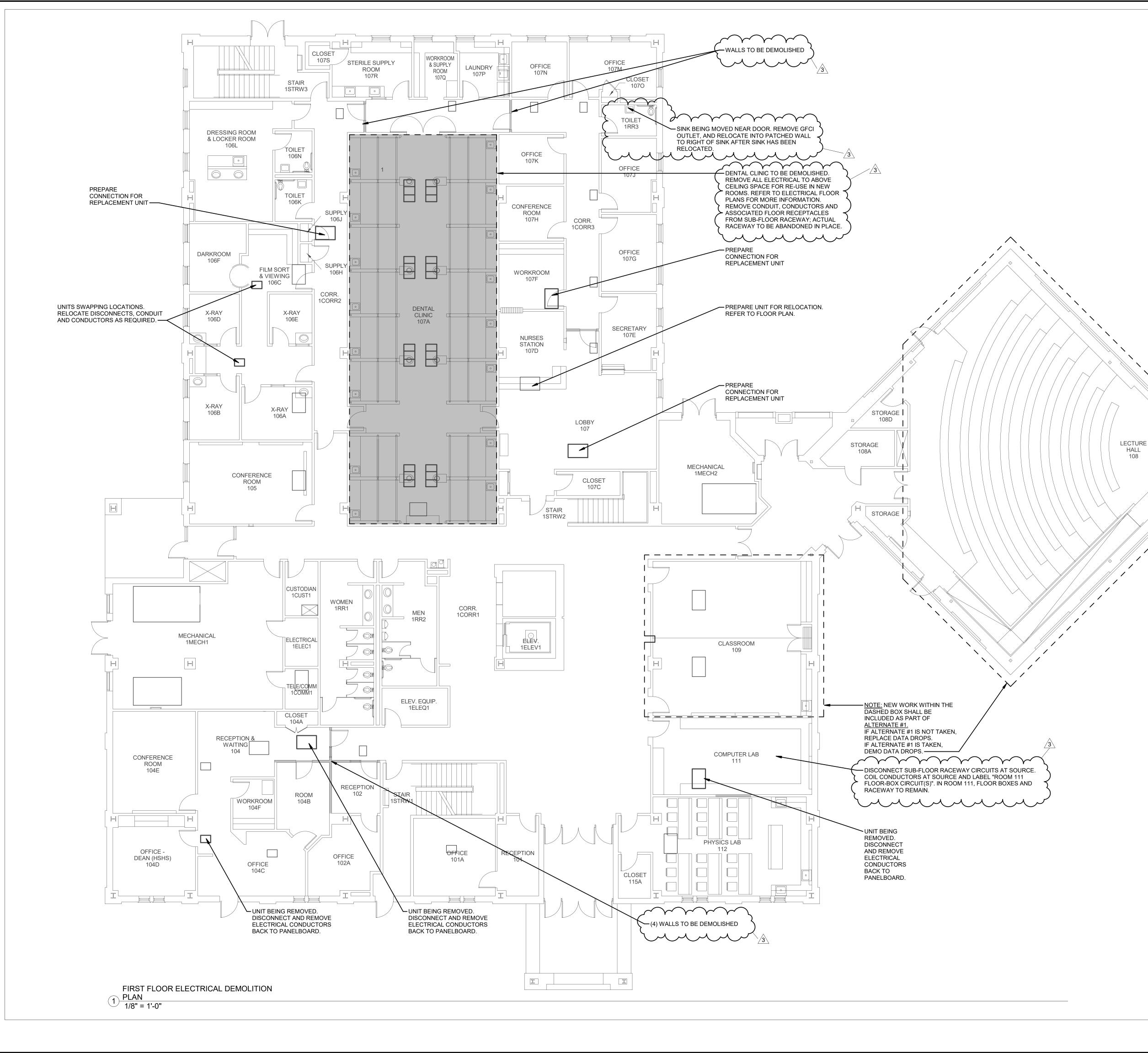
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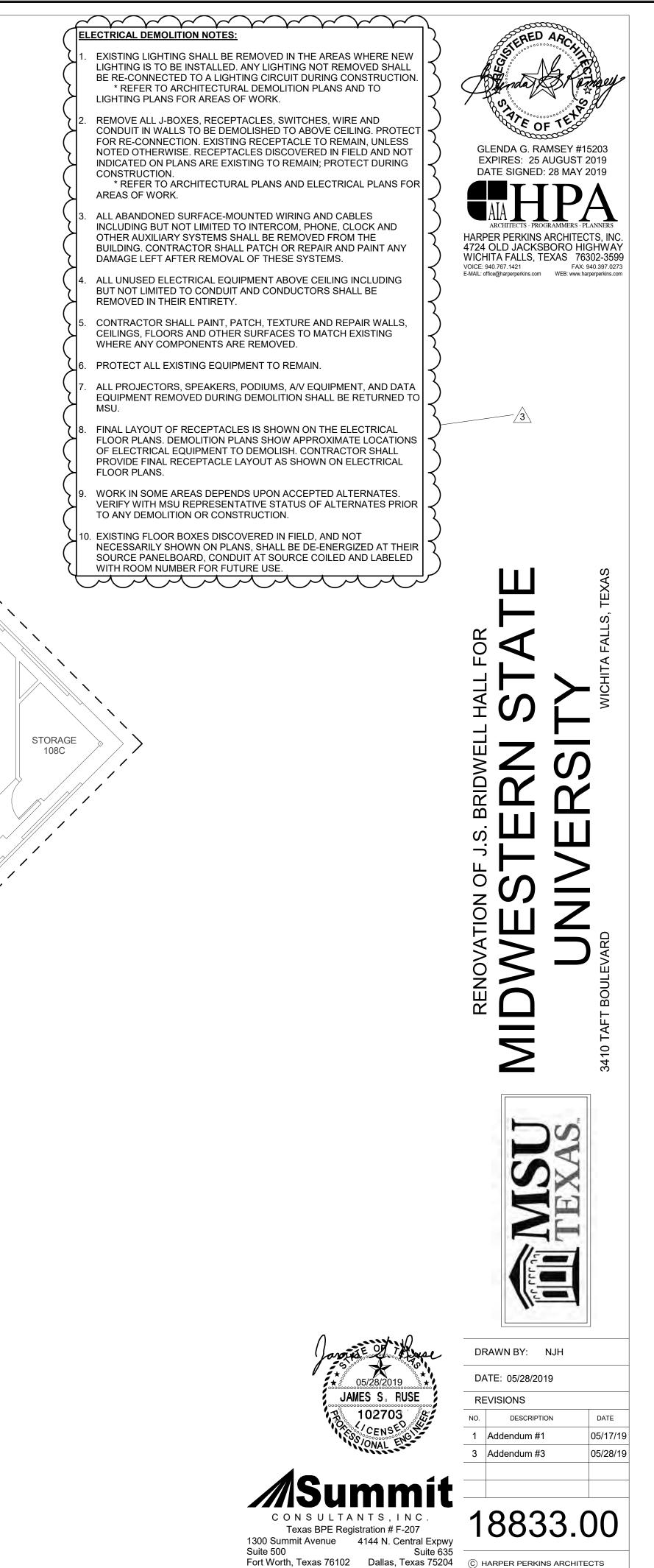


DATE: 05/28/2019 REVISIONS DATE NO. DESCRIPTION 05/17/19 1 Addendum #1 05/28/19 3 Addendum #3 18833.



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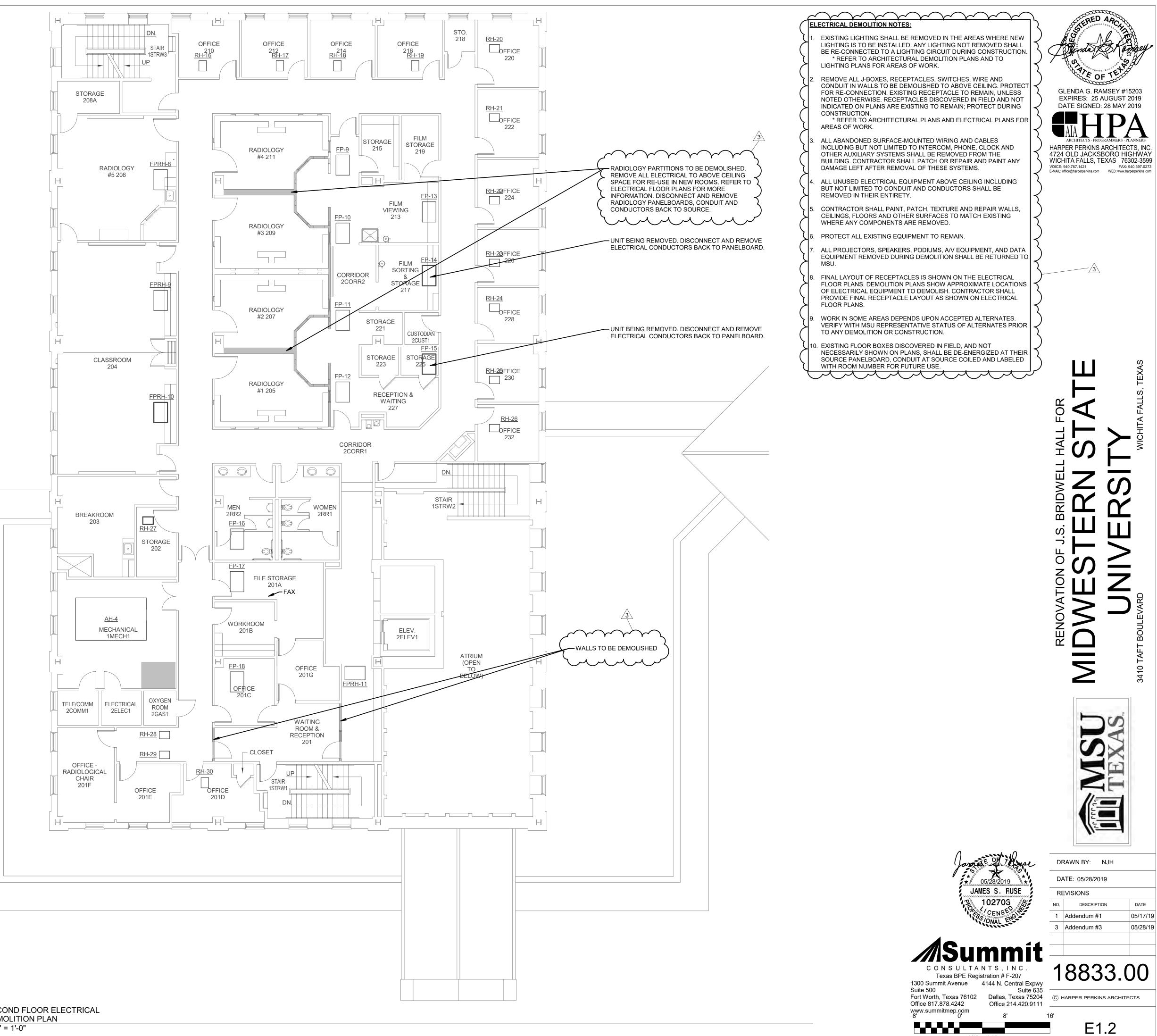
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1/8" = 1'-0"

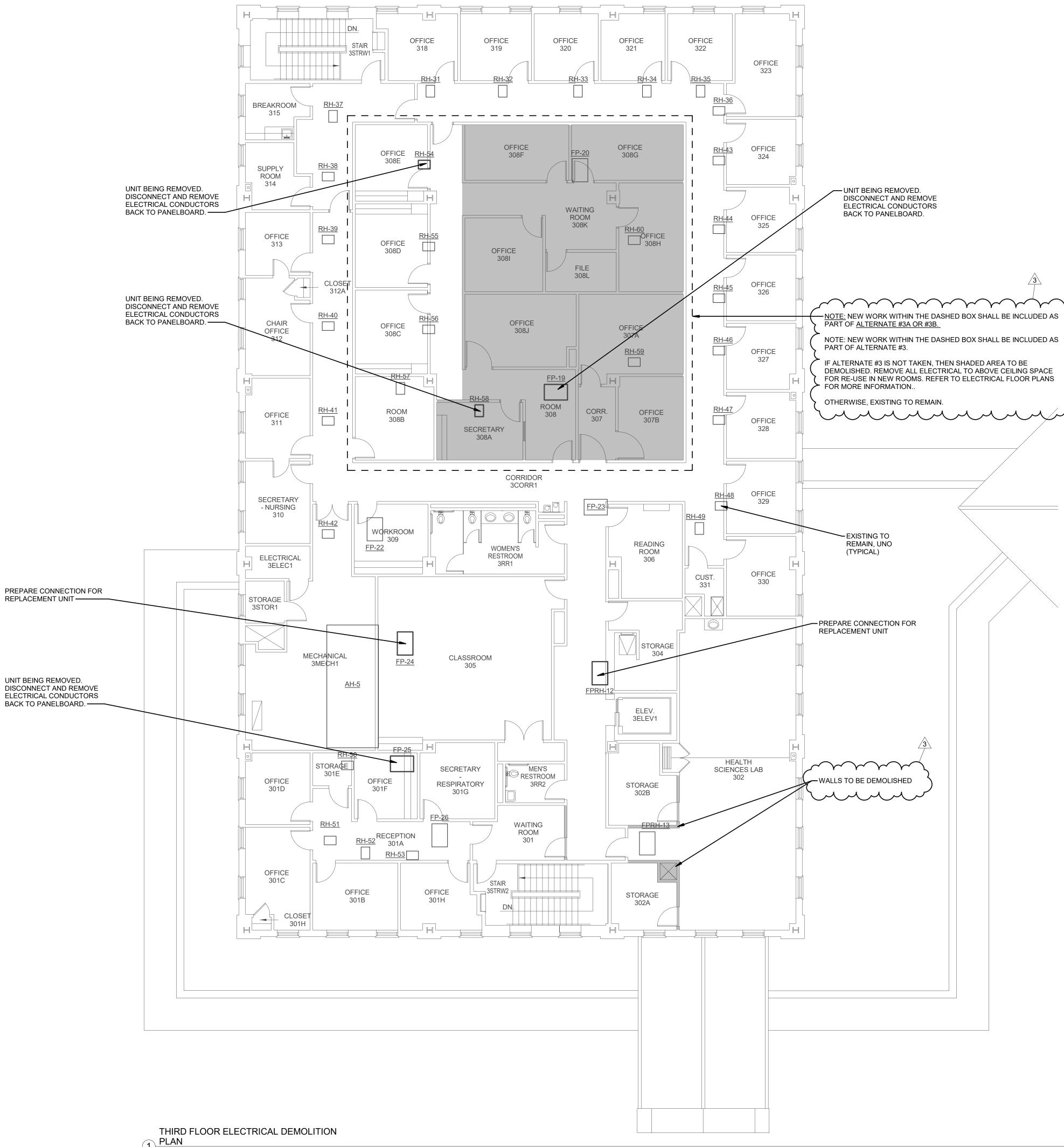
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1/8" = 1'-0"



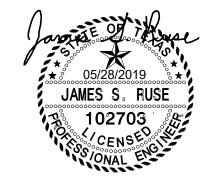
1 PLAN 1/8" = 1'-0"





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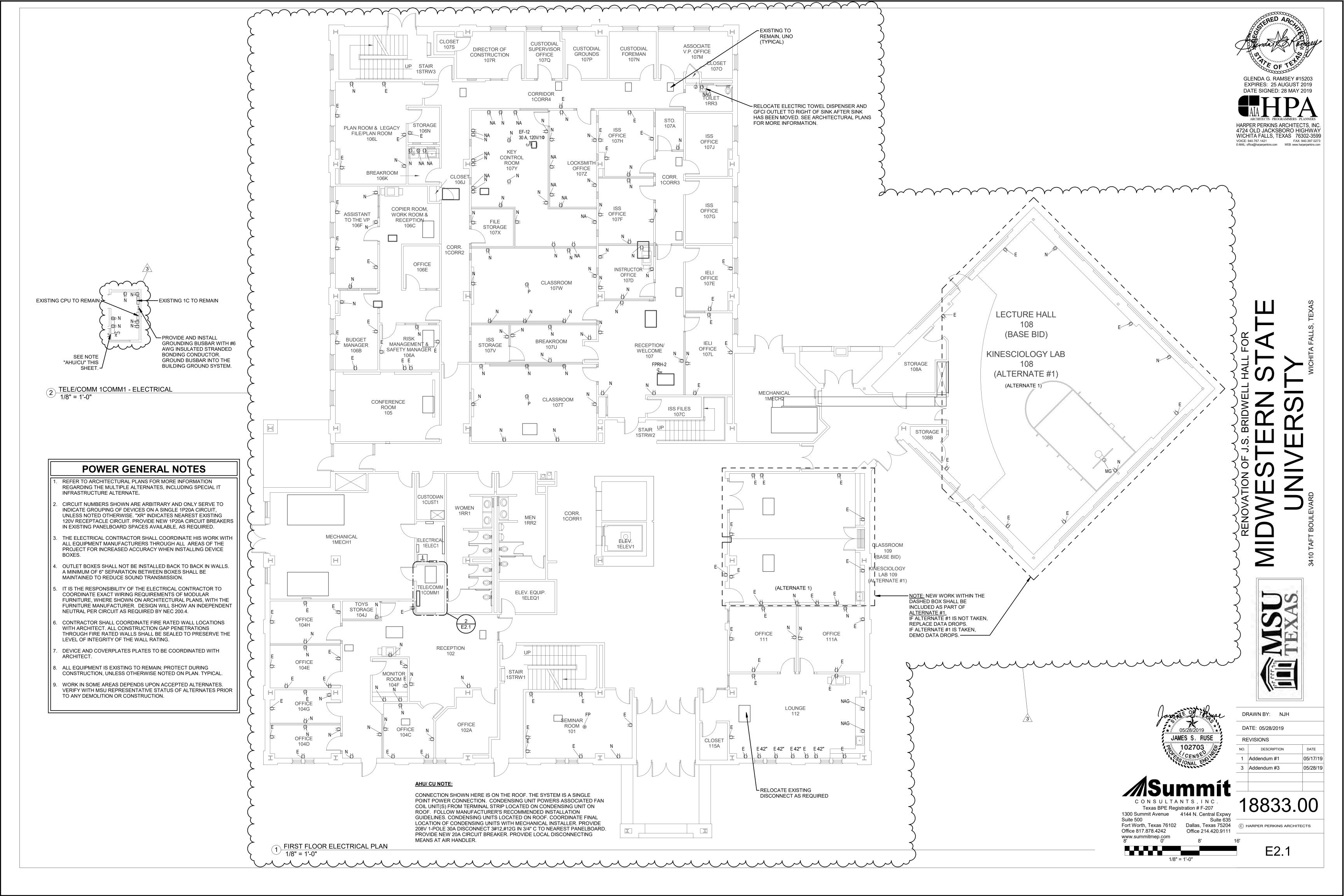
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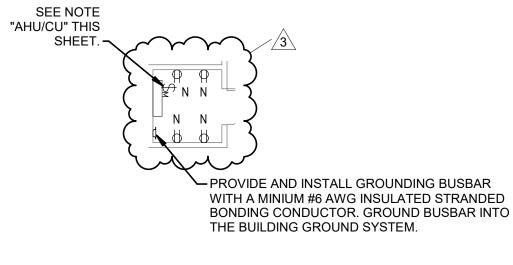
1/8" = 1'-0"

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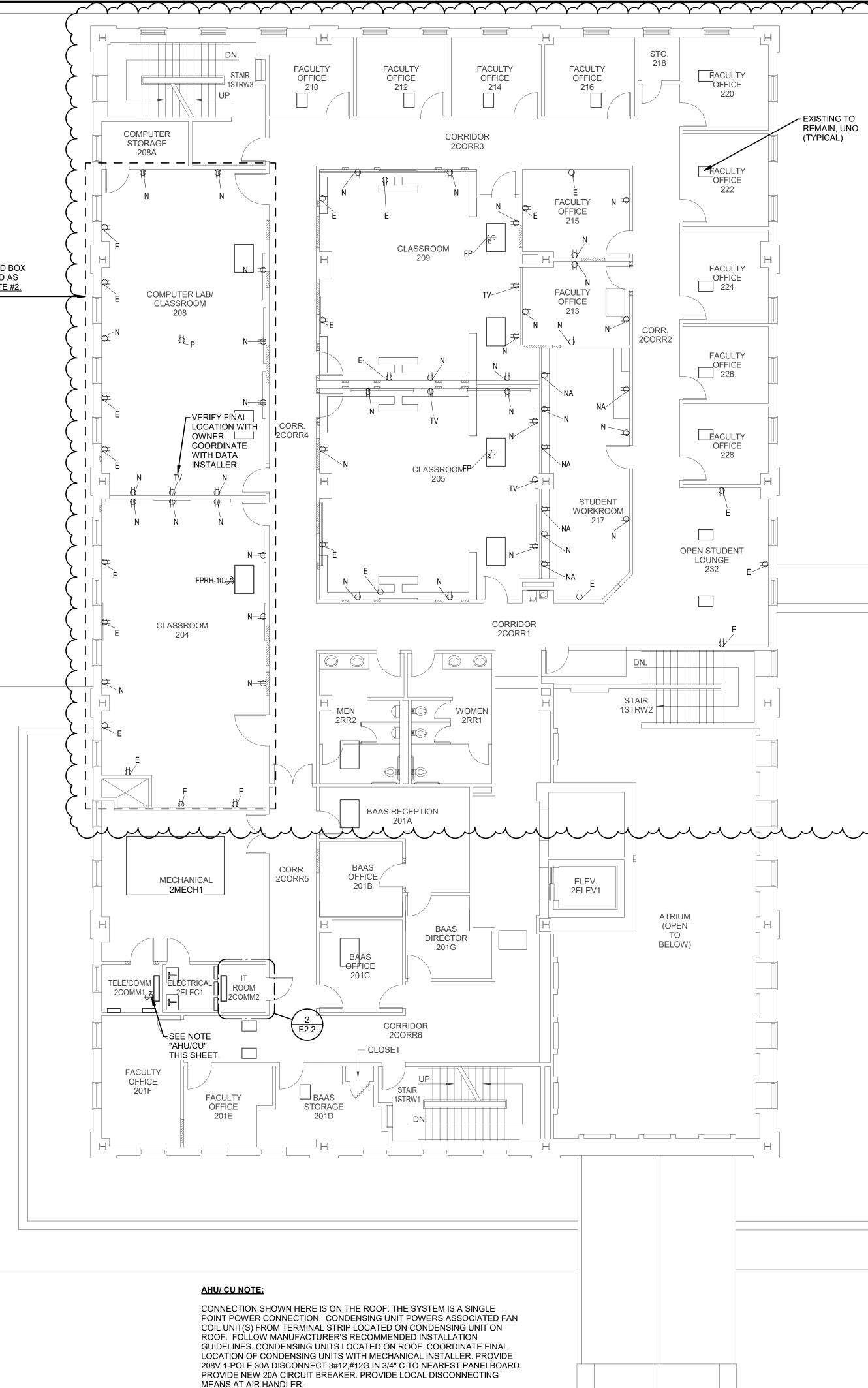
POWER GENERAL NOTES REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION REGARDING THE MULTIPLE ALTERNATES, INCLUDING SPECIAL IT INFRASTRUCTURE ALTERNATE. CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XR" INDICATES NEAREST EXISTING 120V RECEPTACLE CIRCUIT. PROVIDE NEW 1P20A CIRCUIT BREAKERS IN EXISTING PANELBOARD SPACES AVAILABLE, AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL EQUIPMENT MANUFACTURERS THROUGH ALL AREAS OF THE PROJECT FOR INCREASED ACCURACY WHEN INSTALLING DEVICE BOXES. OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. A MINIMUM OF 6" SEPARATION BETWEEN BOXES SHALL BE MAINTAINED TO REDUCE SOUND TRANSMISSION. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT WIRING REQUIREMENTS OF MODULAR FURNITURE, WHERE SHOWN ON ARCHITECTURAL PLANS, WITH THE FURNITURE MANUFACTURER. DESIGN WILL SHOW AN INDEPENDENT NEUTRAL PER CIRCUIT AS REQUIRED BY NEC 200.4. CONTRACTOR SHALL COORDINATE FIRE RATED WALL LOCATIONS WITH ARCHITECT. ALL CONSTRUCTION GAP PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED TO PRESERVE THE LEVEL OF INTEGRITY OF THE WALL RATING. DEVICE AND COVERPLATES PLATES TO BE COORDINATED WITH ARCHITECT. ALL EQUIPMENT IS EXISTING TO REMAIN; PROTECT DURING CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLAN. TYPICAL. WORK IN SOME AREAS DEPENDS UPON ACCEPTED ALTERNATES. VERIFY WITH MSU REPRESENTATIVE STATUS OF ALTERNATES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF <u>ALTERNATE #2.</u>

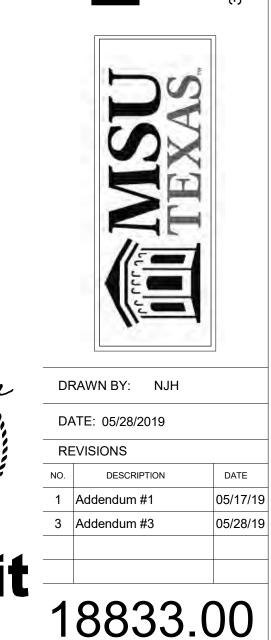


2 IT ROOM 2COMM2 - ELECTRICAL 1/8" = 1'-0"

1 SECOND FLOOR ELECTRICAL PLAN 1/8" = 1'-0"







16'

E2.2



★ 8 05/28/2019

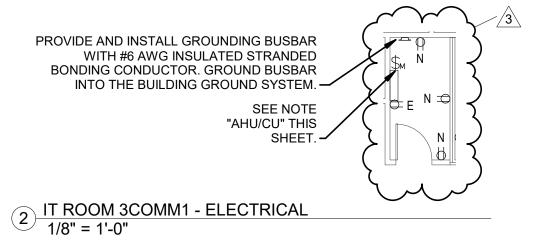
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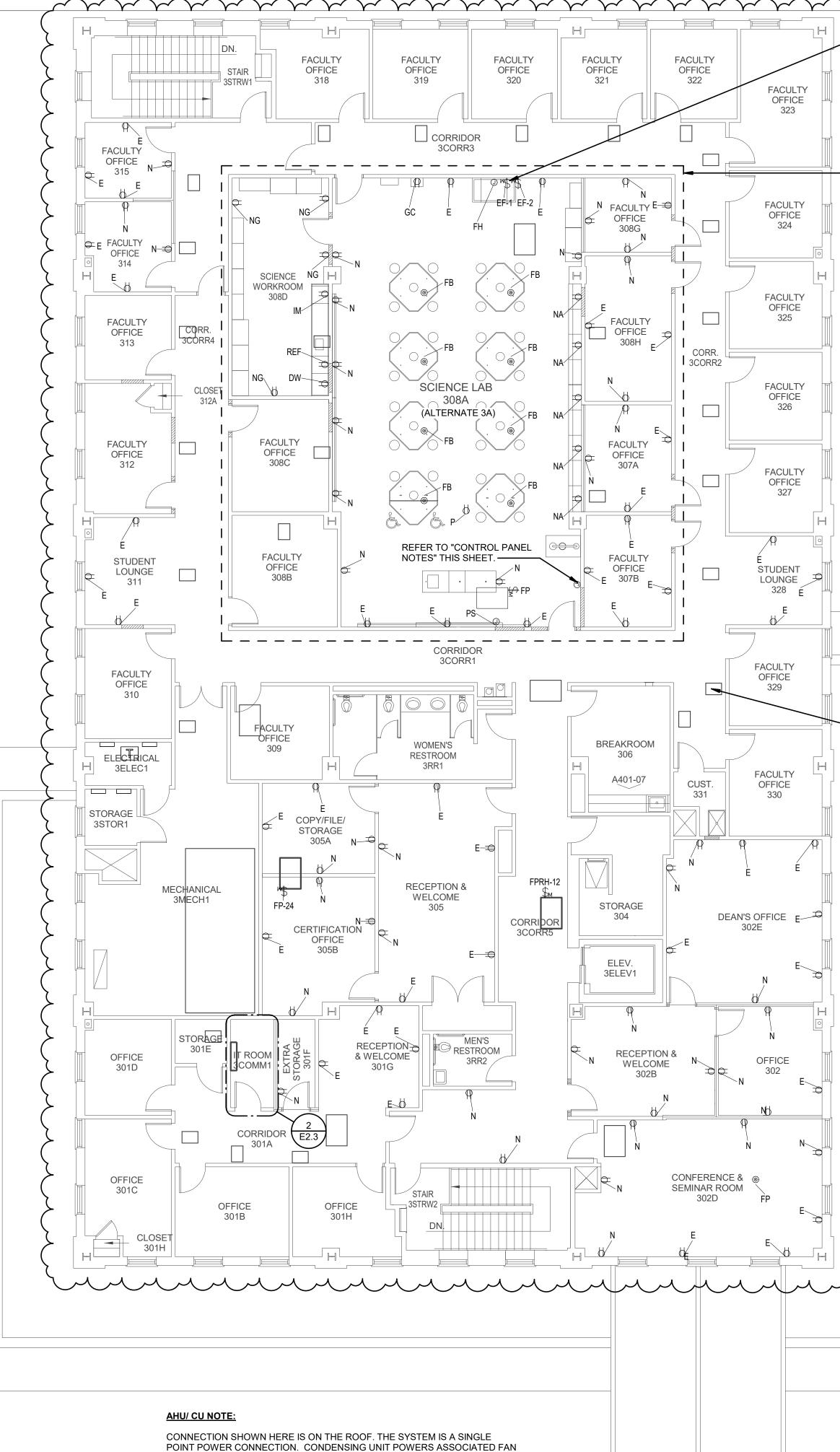
1/8" = 1'-0"

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POWER GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION REGARDING THE MULTIPLE ALTERNATES, INCLUDING SPECIAL IT INFRASTRUCTURE ALTERNATE.
- CIRCUIT NUMBERS SHOWN ARE ARBITRARY AND ONLY SERVE TO INDICATE GROUPING OF DEVICES ON A SINGLE 1P20A CIRCUIT, UNLESS NOTED OTHERWISE. "XR" INDICATES NEAREST EXISTING 120V RECEPTACLE CIRCUIT. PROVIDE NEW 1P20A CIRCUIT BREAKERS IN EXISTING PANELBOARD SPACES AVAILABLE, AS REQUIRED.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL EQUIPMENT MANUFACTURERS THROUGH ALL AREAS OF THE PROJECT FOR INCREASED ACCURACY WHEN INSTALLING DEVICE BOXES.
- OUTLET BOXES SHALL NOT BE INSTALLED BACK TO BACK IN WALLS. A MINIMUM OF 6" SEPARATION BETWEEN BOXES SHALL BE MAINTAINED TO REDUCE SOUND TRANSMISSION.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT WIRING REQUIREMENTS OF MODULAR FURNITURE, WHERE SHOWN ON ARCHITECTURAL PLANS, WITH THE FURNITURE MANUFACTURER. DESIGN WILL SHOW AN INDEPENDENT NEUTRAL PER CIRCUIT AS REQUIRED BY NEC 200.4.
- CONTRACTOR SHALL COORDINATE FIRE RATED WALL LOCATIONS WITH ARCHITECT. ALL CONSTRUCTION GAP PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED TO PRESERVE THE LEVEL OF INTEGRITY OF THE WALL RATING.
- DEVICE AND COVERPLATES PLATES TO BE COORDINATED WITH ARCHITECT.
- ALL EQUIPMENT IS EXISTING TO REMAIN; PROTECT DURING CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLAN. TYPICAL.
- WORK IN SOME AREAS DEPENDS UPON ACCEPTED ALTERNATES. VERIFY WITH MSU REPRESENTATIVE STATUS OF ALTERNATES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.





COIL UNIT(S) FROM TERMINAL STRIP LOCATED ON CONDENSING UNIT ON ROOF. FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION GUIDELINES. CONDENSING UNITS LOCATED ON ROOF. COORDINATE FINAL LOCATION OF CONDENSING UNITS WITH MECHANICAL INSTALLER. PROVIDE 208V 1-POLE 30A DISCONNECT 3#12,#12G IN 3/4" C TO NEAREST PANELBOARD. PROVIDE NEW 20A CIRCUIT BREAKER. PROVIDE LOCAL DISCONNECTING MEANS AT AIR HANDLER.

CONNECTIONS SHOWN HERE FOR EF-1 AND EF-2 ARE ON THE ROOF. COORDINATE FINAL LOCATION OF EXHAUST FANS WITH MECHANICAL INSTALLER. CIRCUIT TO NEAREST PANELBOARD. PROVIDE NEW 20A CIRCUIT BREAKER. INTEGRATE WITH UTILITY CONTROL PANEL PER PANEL MANUFACTURER'S INSTRUCTION.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3A OR #3B.

NOTE: NEW WORK WITHIN THE DASHED BOX SHALL BE INCLUDED AS PART OF ALTERNATE #3. IF ALTERNATE #3 IS NOT TAKEN, THEN REPLACE DATA DROPS. IF ALTERNATE #3 IS TAKEN, THEN DO NOT REPLACE DATA DROPS.

ALTERNATE 3A NOTES:

1. INSTALL FLOOR BOXES WITH CONDUIT. WIRING IS NOT TO BE RUN. PROVIDE 200LB PULL STRING TO ACCESSIBLE CEILING AND LABEL "FLOOR BOXES".

2. NOTE: ALTERNATE 3C IS THE COMPLETION OF THE ELECTRICAL INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION. 3. INSTALL NEW LIGHTING. REFER TO LIGHTING PLANS.

CONTROL PANEL NOTES:

- 1. THE CONTROL PANEL SHALL PROVIDE EMERGENCY SHUT-OFF OF GAS, WATER AND POWER . 2. "CP" ON PLANS IS THE REMOTE EMERGENCY SHUT-OFF BUTTON. VERIFY LOCATION WITH OWNER PRIOR
- TO ROUGH-IN.
- 3. PROVIDE:

EXISTING TO

REMAIN, UNO

(TYPICAL)

- A. FLUSH MOUNT REMOTE EMERGENCY SHUT-OFF BUTTON: ALL-OFF IN ALARM MODE: SEPARATE MANUAL FAN CONTROL BUTTON.
- B. DIN RAIL MOUNTED J-BOXES FOR CONTACTORS LOCATED ADJACENT TO EXISTING PANELBOARD SUPPLYING CIRCUITS TO LAB. FIELD VERIFY LOCATION. C. CONNECT TO PLUMBING SOLENOIDS; REFER TO PLUMBING PLANS FOR MORE LOCATION.
- D. INTERFACE WITH EXHAUST FANS; REFER TO MECHANICAL PLANS FOR QUANTITY AND LOCATIONS. E. INTEGRATE WITH EXISTING FIRE ALARM SYSTEM SYSTEM PER MANUFACTURER.
- 4. ALL RECEPTACLE CIRCUITS IN LAB 308A SHALL BE CIRCUITED THROUGH "CP".
- 5. COORDINATE EXACT REQUIREMENTS WITH CP SYSTEM MANUFACTURER. BASIS OF DESIGN IS AGS MERLIN 1000SW+ SYSTEM.



1/8" = 1'-0"

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GLENDA G. RAMSEY #15203

EXPIRES: 25 AUGUST 2019

DATE SIGNED: 28 MAY 2019



DATE: 05/28/2019

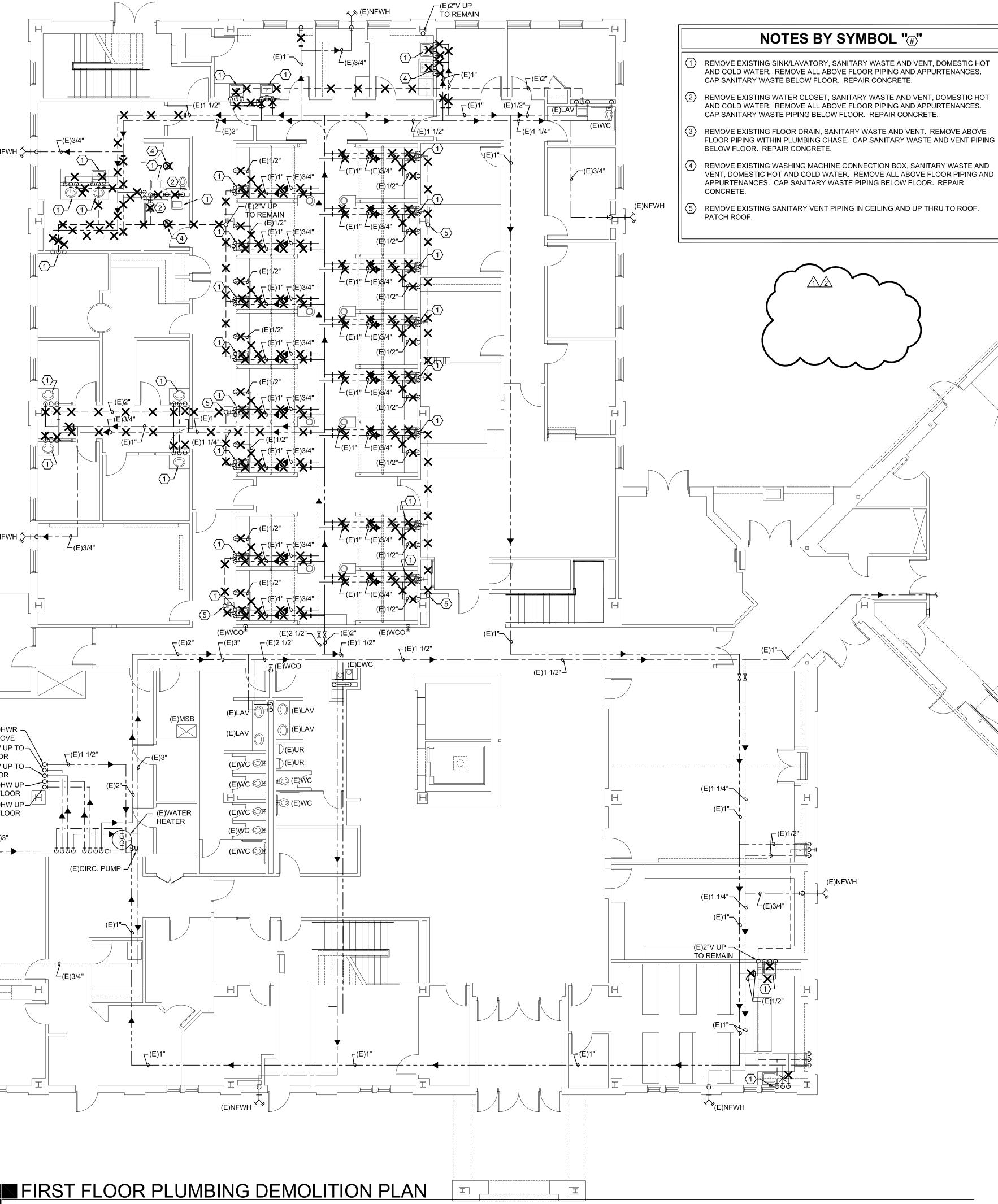
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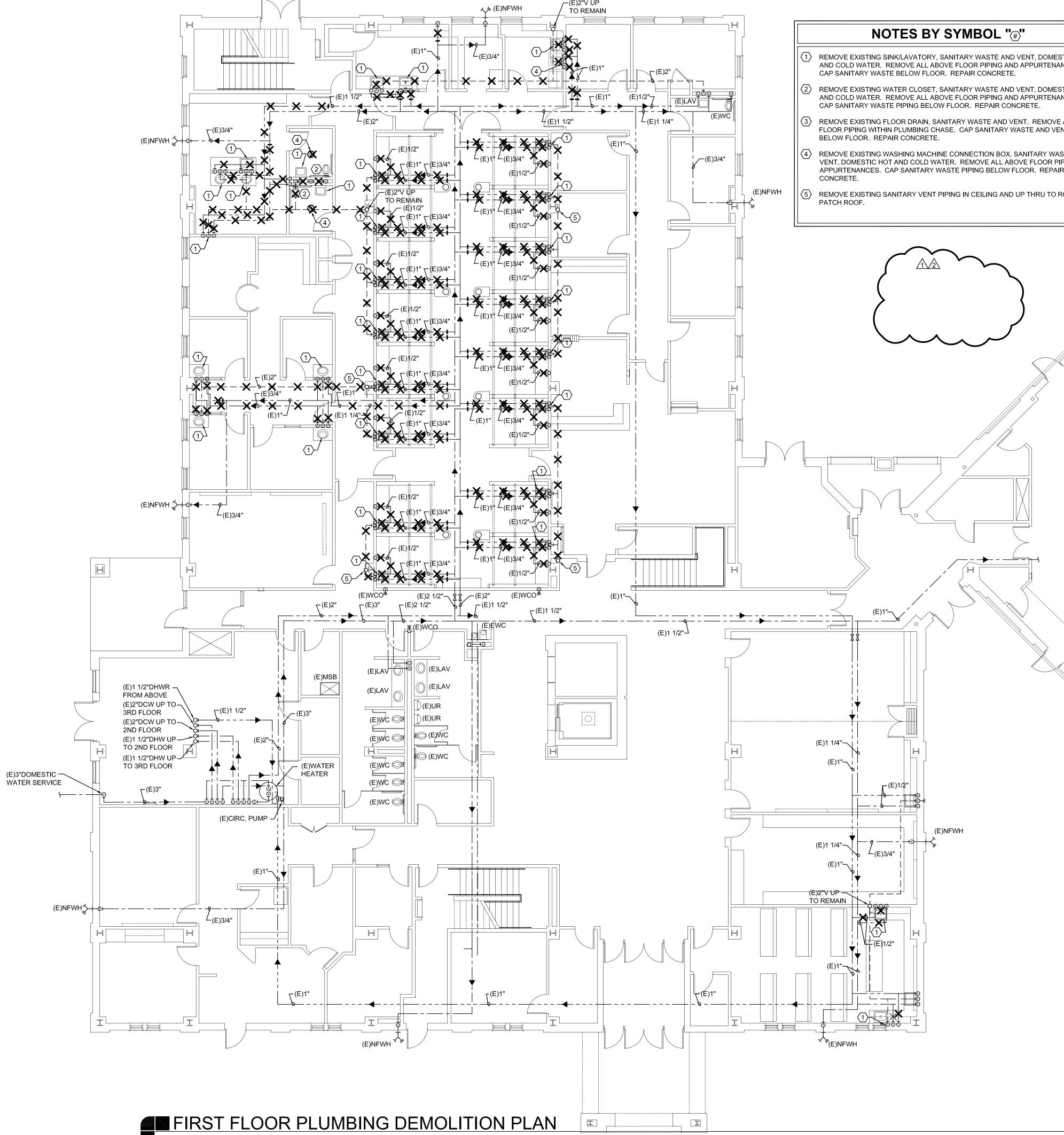
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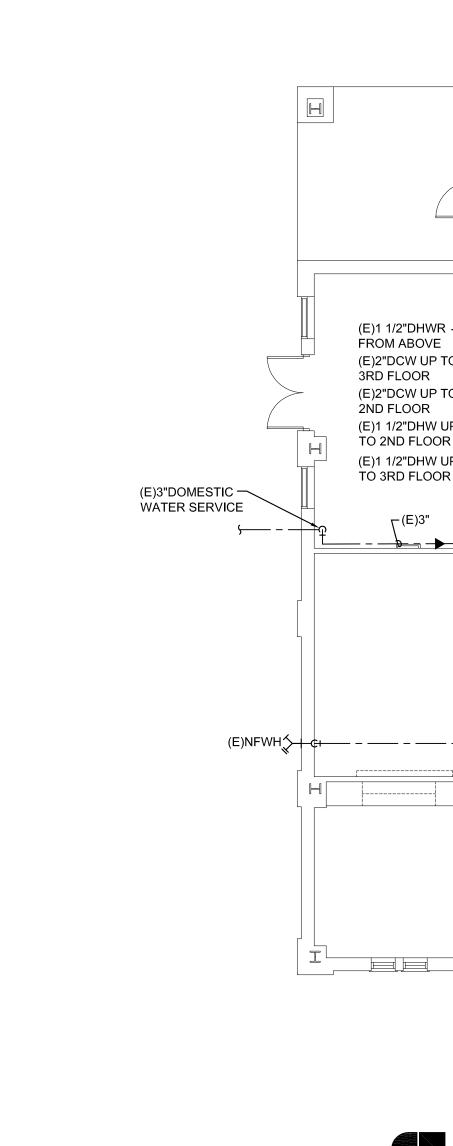
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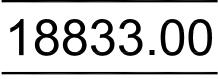


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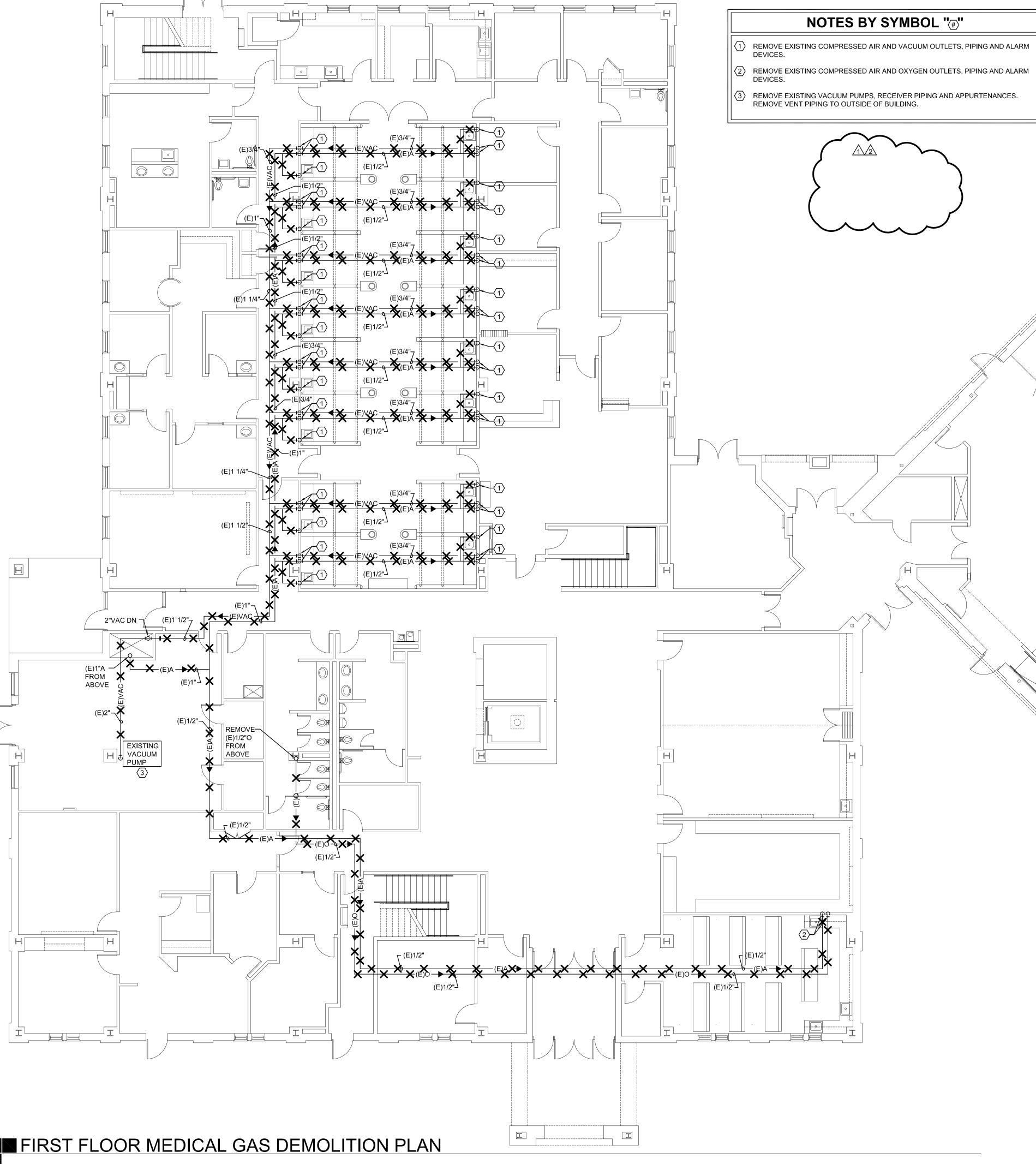
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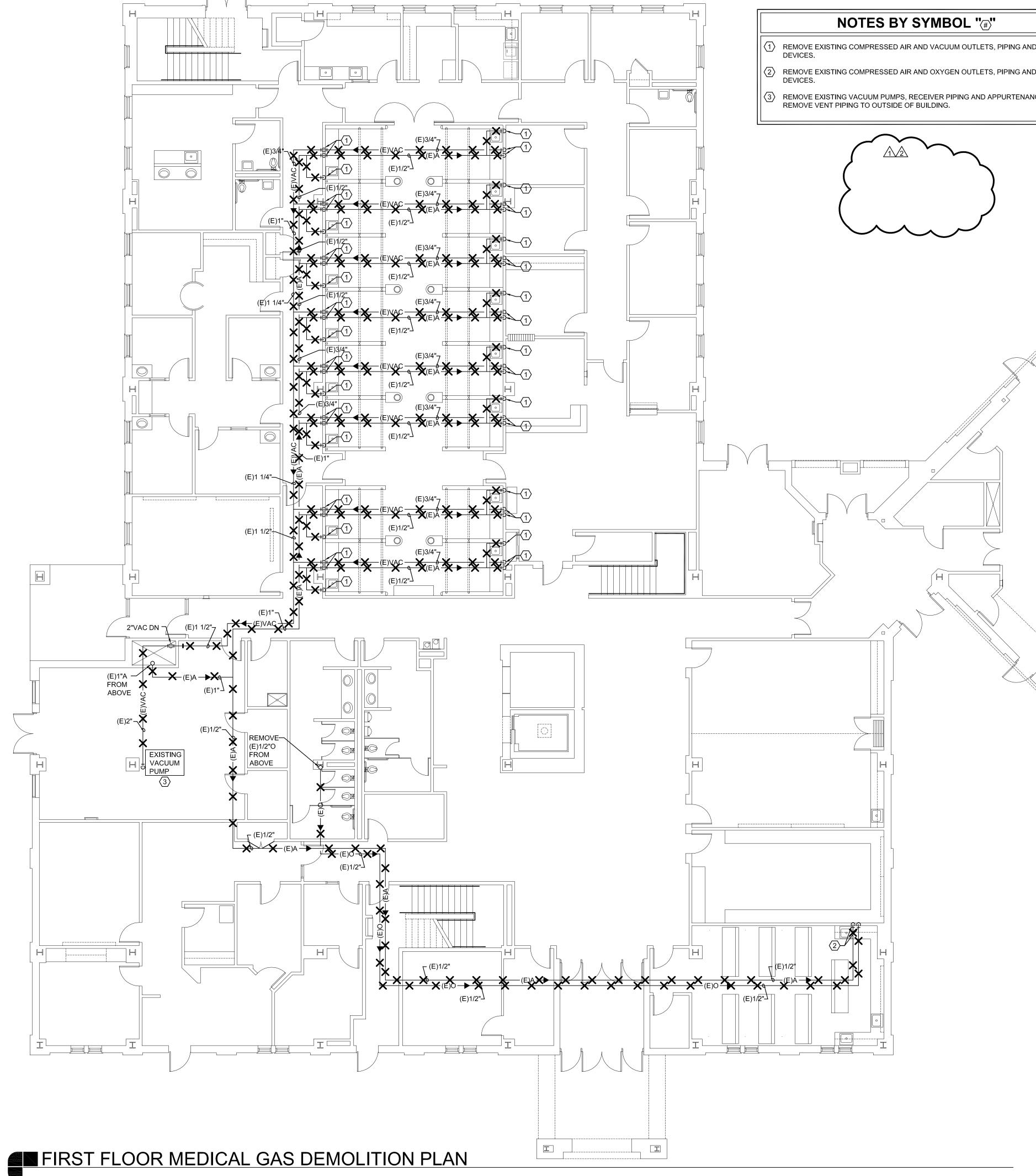
DAVID G. MEIER 90657 4794.5.29.2019.18163



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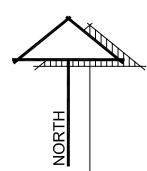


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P101b



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

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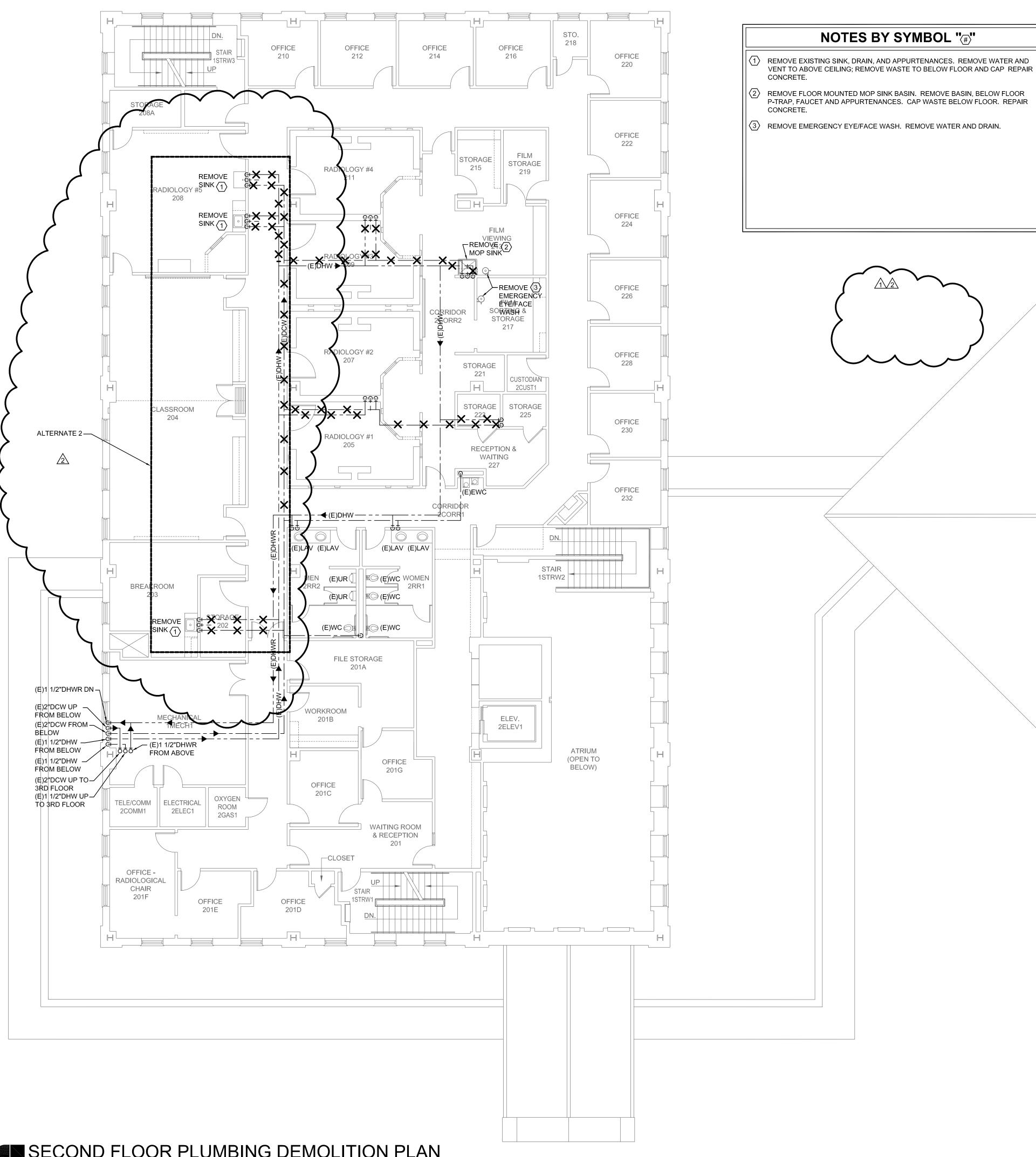
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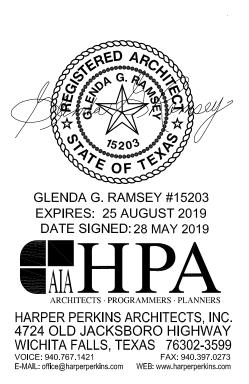
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SECOND FLOOR PLUMBING DEMOLITION PLAN





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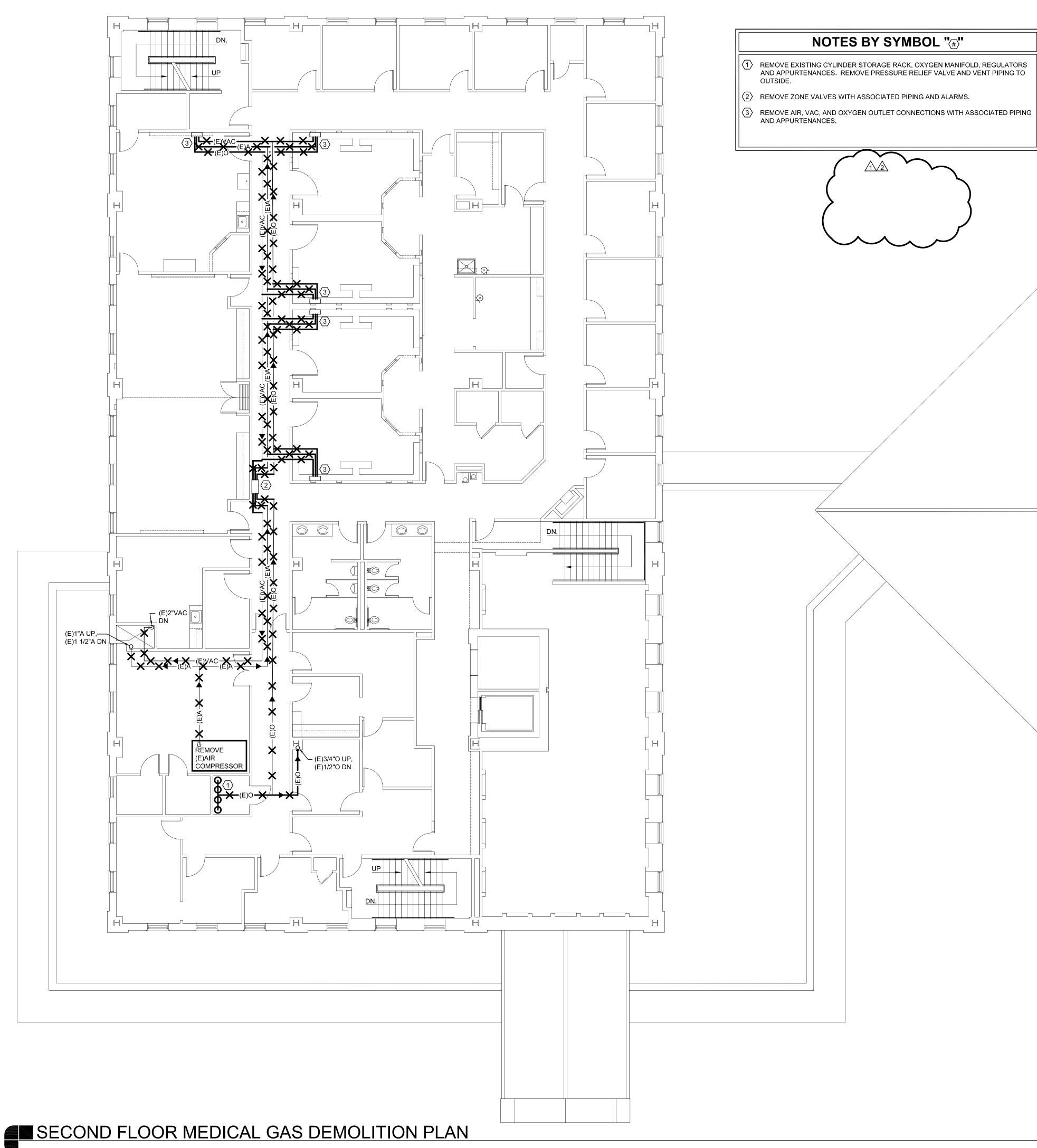
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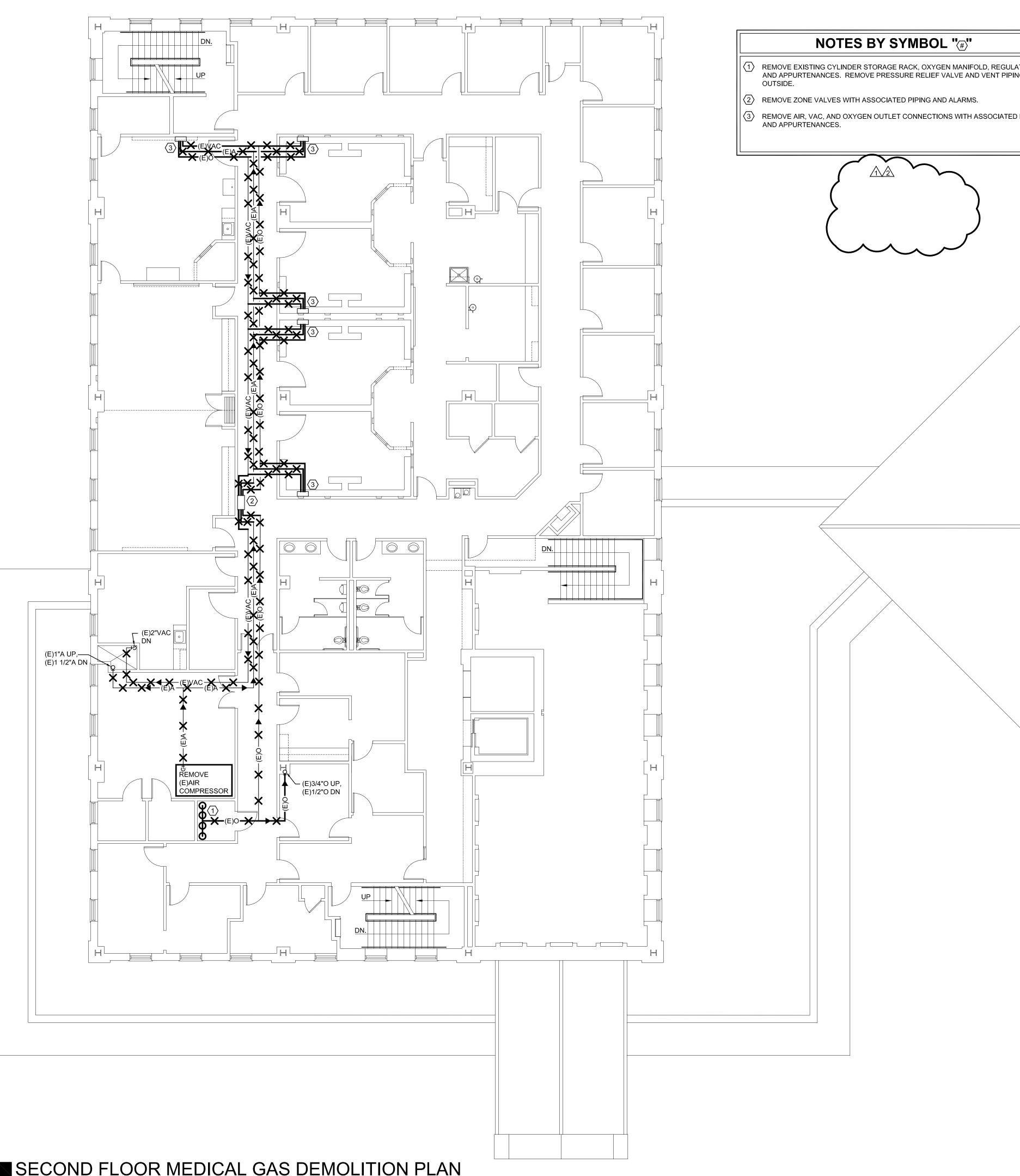
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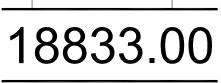


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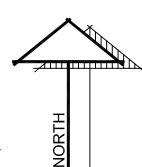


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HARPER PERKINS ARCHITECTS





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

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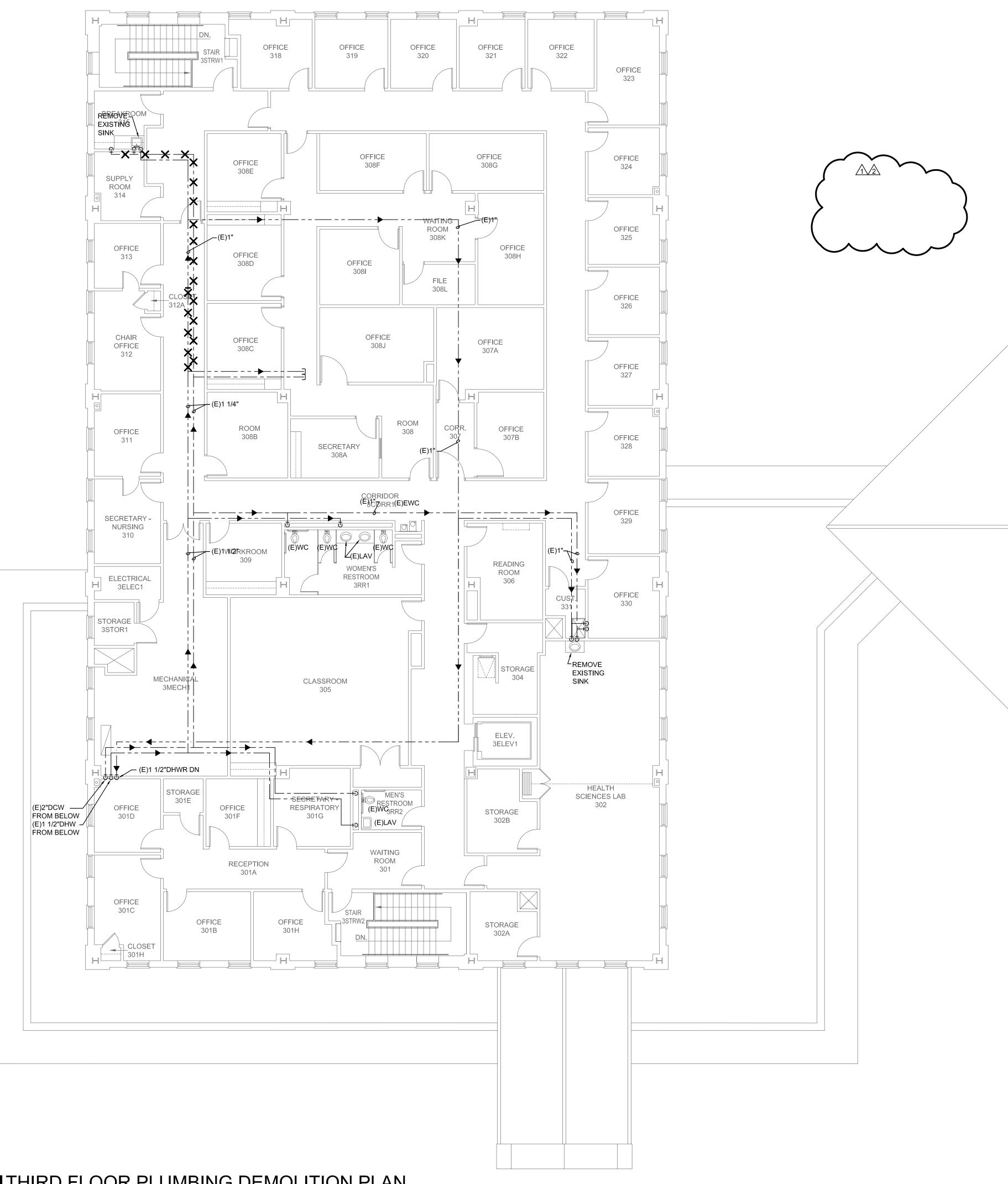
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DAVID G. MEIER

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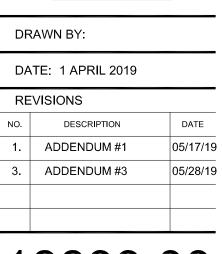
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Texas BPE Registration # F-207 4144 N. Central Expwy Suite 635 Dallas, Texas 75204 Office 214.420.9111

DAVID G. MEIER

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1300 Summit Avenue

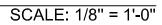
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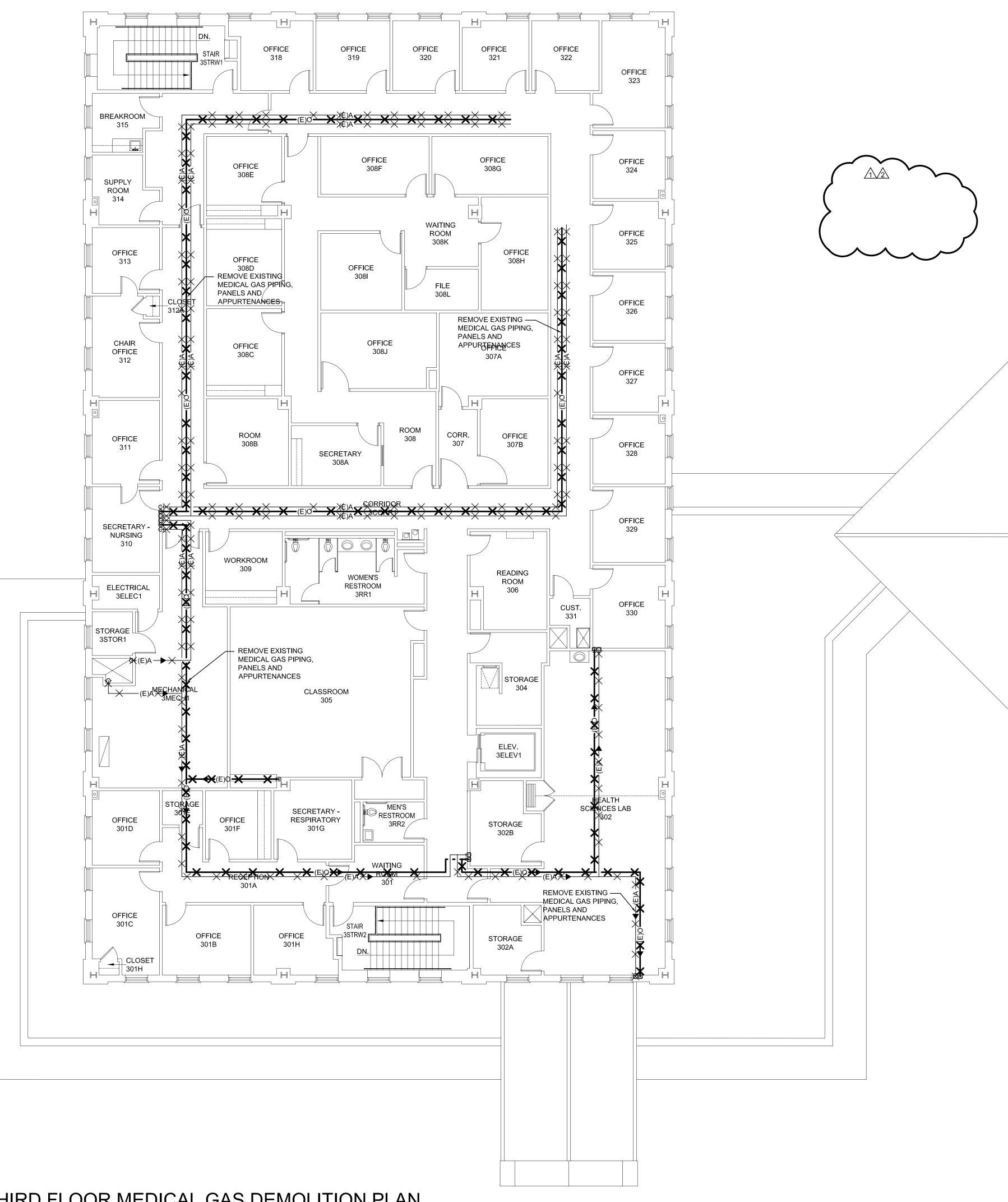
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Suite 500

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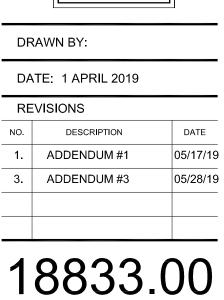
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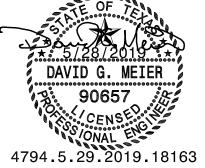
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P103b



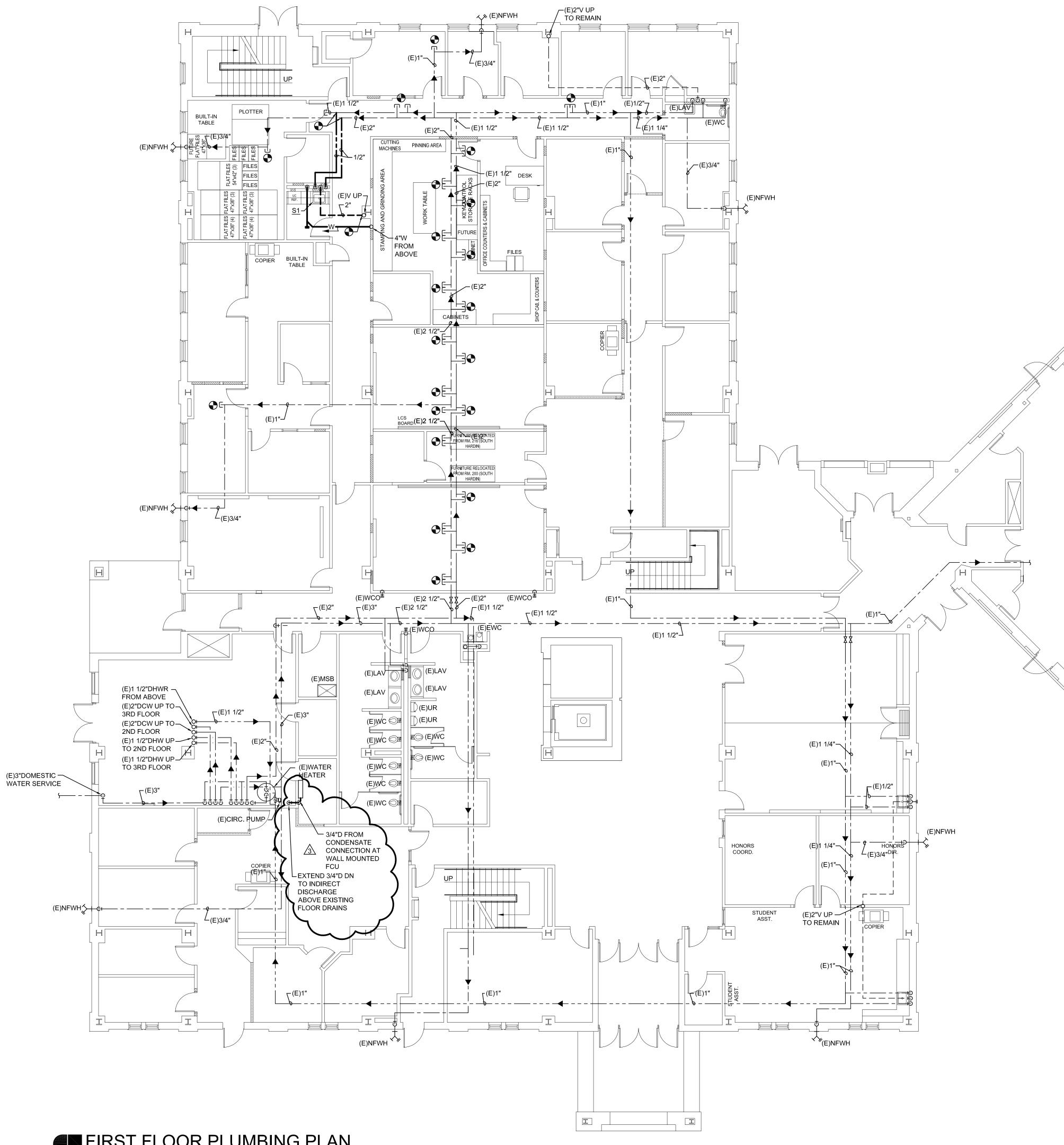


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FIRST FLOOR PLUMBING PLAN

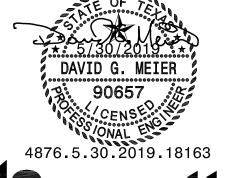




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DRAWN BY: DATE: 1 APRIL 2019 REVISIONS NO. DESCRIPTION DATE 1. ADDENDUM #1 05/17/19 3. ADDENDUM #3 05/28/19 18833.00) HARPER PERKINS ARCHITECTS

P201

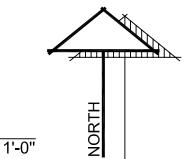


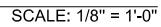


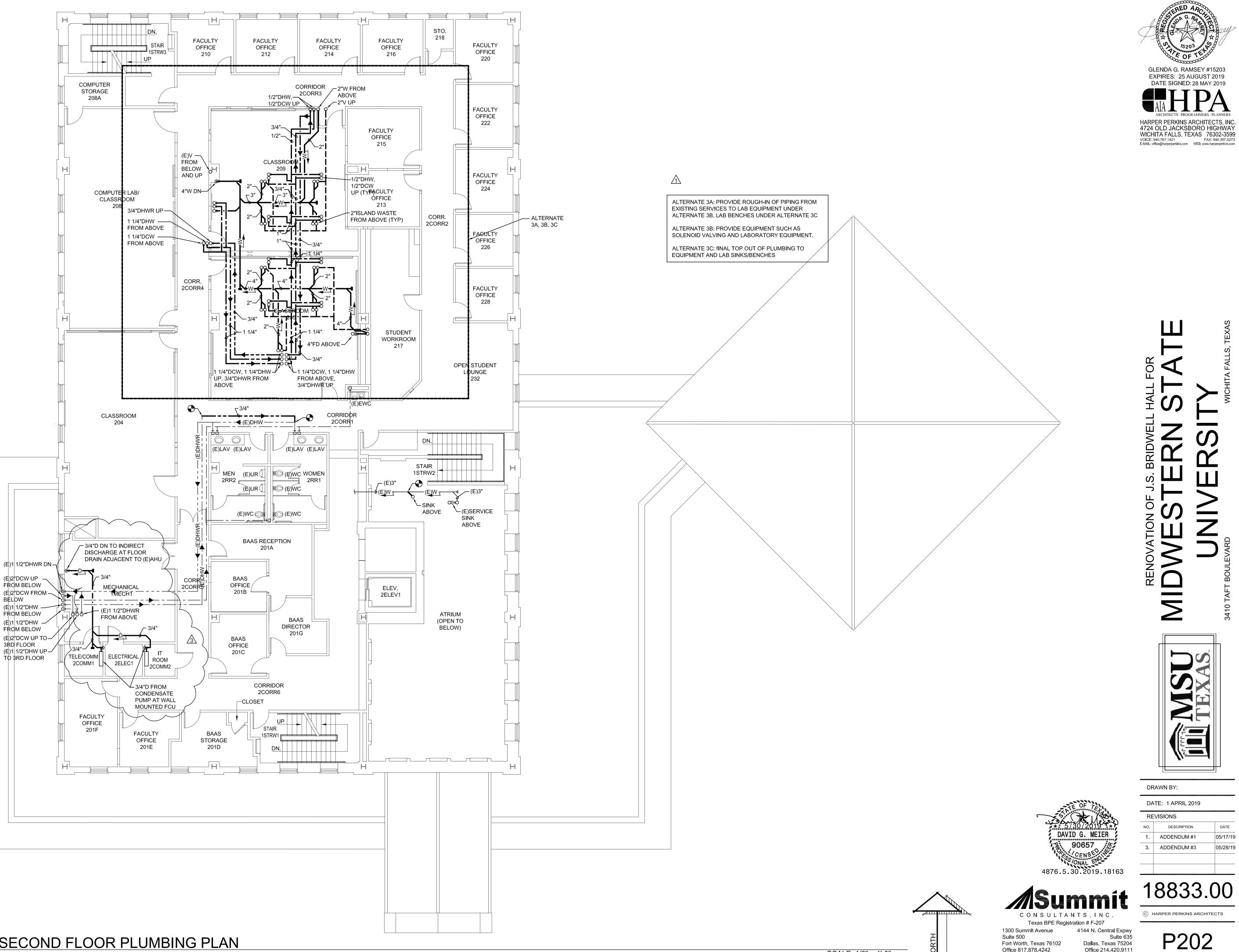
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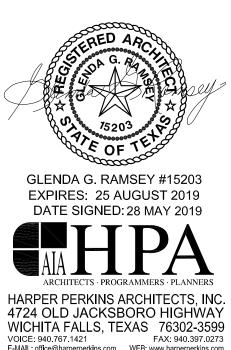
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SECOND FLOOR PLUMBING PLAN

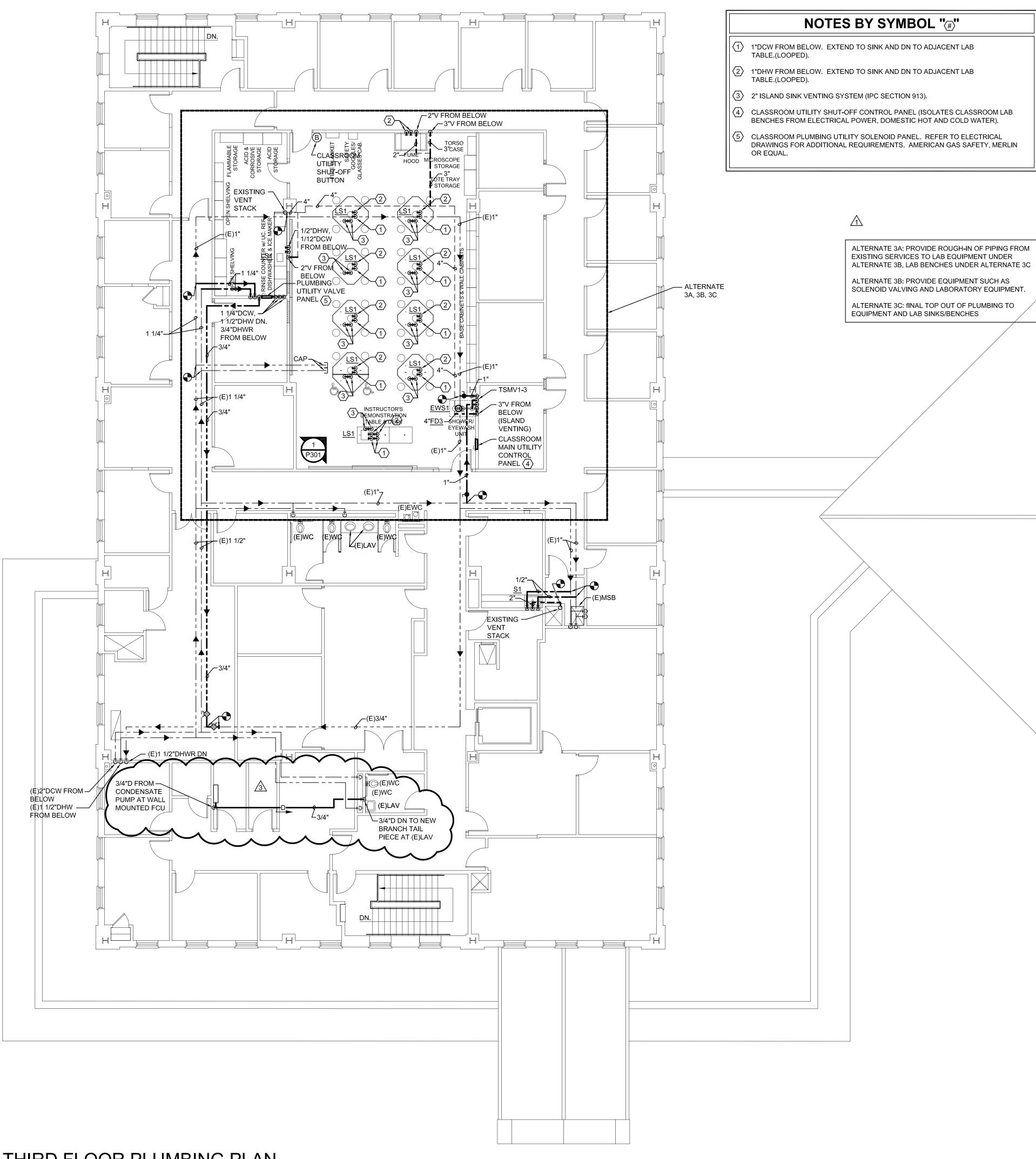


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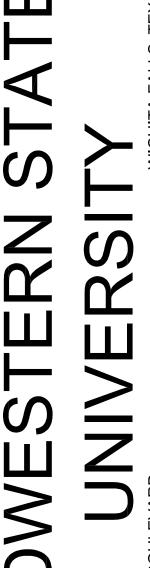
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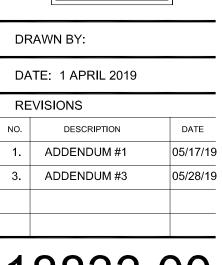
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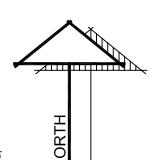


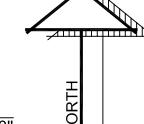


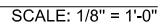


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P203







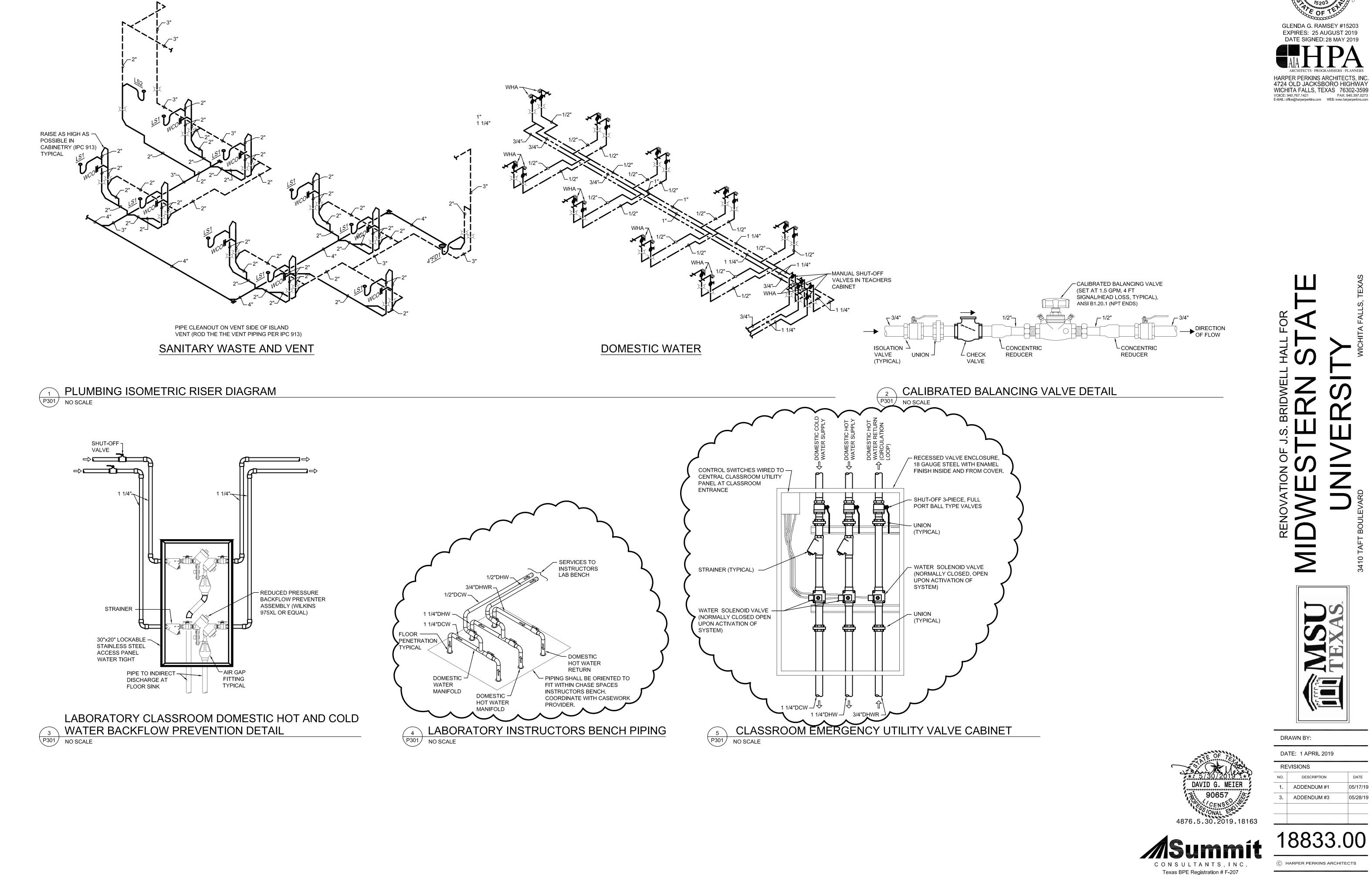
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