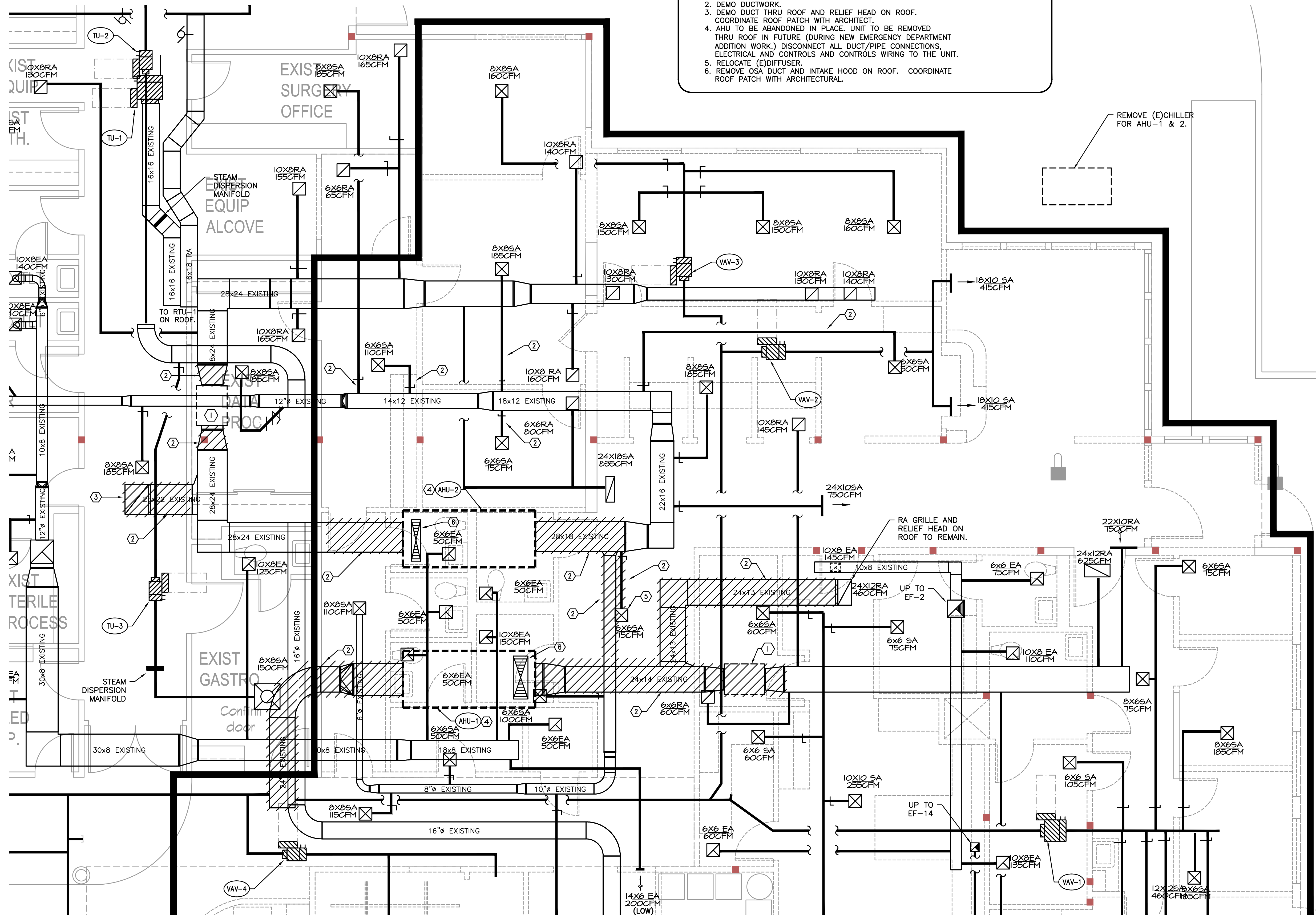




SHEET NOTES:

1. ANY EQUIPMENT SHUT-DOWNS AND OPERATIONAL DOWNTIME SHALL BE COORDINATED WITH AND APPROVED BY THE HOSPITAL.
2. COORDINATE PHASING OF WORK WITH HOSPITAL TO PRIOR TO COMMENCING WORK.
3. FACILITY AND (E)AHU'S SHOULD REMAIN OPERATIONAL AS LONG AS POSSIBLE DURING CONSTRUCTION. TO MINIMIZE DOWNTIME, NEW WORK (DUCT & AHU INSTALLATION) SHOULD BE INSTALLED, CONNECTED TO (E) AND AHU-3 START-UP COMPLETED PRIOR TO DEMO WORK.

KEYED NOTES: (#)

1. REMOVE (E) RETURN FAN AND CONTROLS AFTER INSTALLATION OF NEW DUCTWORK AND AHU.
2. DEMO DUCTWORK
3. DEMO DUCT THRU ROOF AND RELIEF HEAD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECT.
4. AHU TO BE ABANDONED IN PLACE. UNIT TO BE REMOVED THRU ROOF IN FUTURE (DURING NEW EMERGENCY DEPARTMENT ADDITION WORK.) DISCONNECT ALL DUCT/PIPE CONNECTIONS, ELECTRICAL AND CONTROLS AND CONTROLS WIRING TO THE UNIT.
5. RELOCATE (E)DIFFUSER.
6. REMOVE OSA DUCT AND INTAKE HOOD ON ROOF. COORDINATE ROOF PATCH WITH ARCHITECTURAL.

MECHANICAL DEMO SCOPE:

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.

REMOVE (E)CHILLER FOR AHU-1 & 2.

1 MECHANICAL DEMO PLAN - NORTH
MD2.1 SCALE: 1/4" = 1'-0"



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INTERIOR REMODEL/ADDITION FOR:

CRITICAL ACCESS HOSPITAL
MODERNIZATION
CBS # TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98612

PROJECT NUMBER: 180026
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

NOT FOR CONSTRUCTION

MECHANICAL
DEMO PLAN
NORTH

MD2.1

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PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: TAKAKO BAKER

SHEET NOTES:

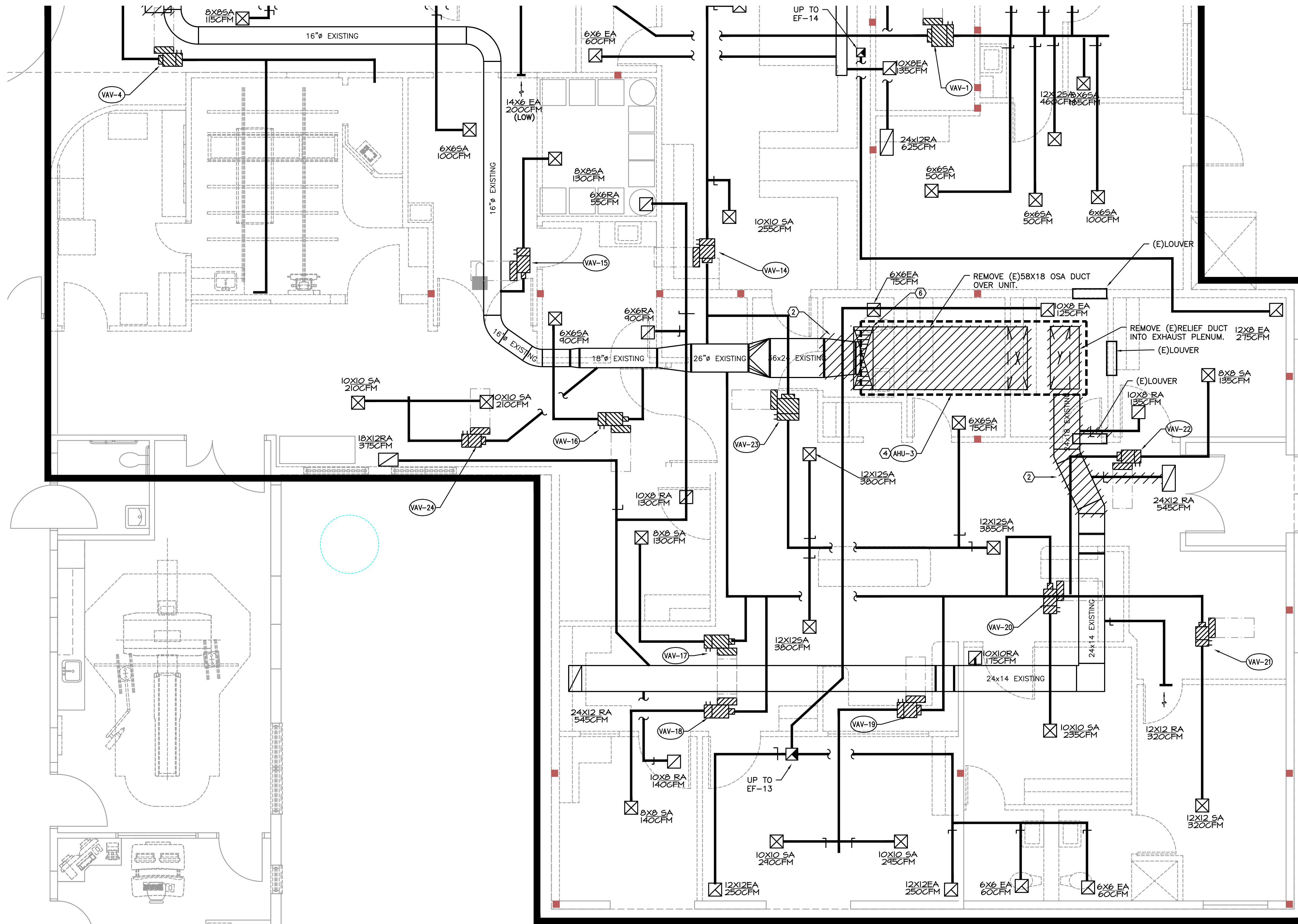
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KEYED NOTES: (#)

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MECHANICAL DEMO SCOPE:

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.



1 MECHANICAL DEMO PLAN - SOUTH

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

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INTERIOR REMODEL/ADDITION FOR:

SKYLINE HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS # TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98612

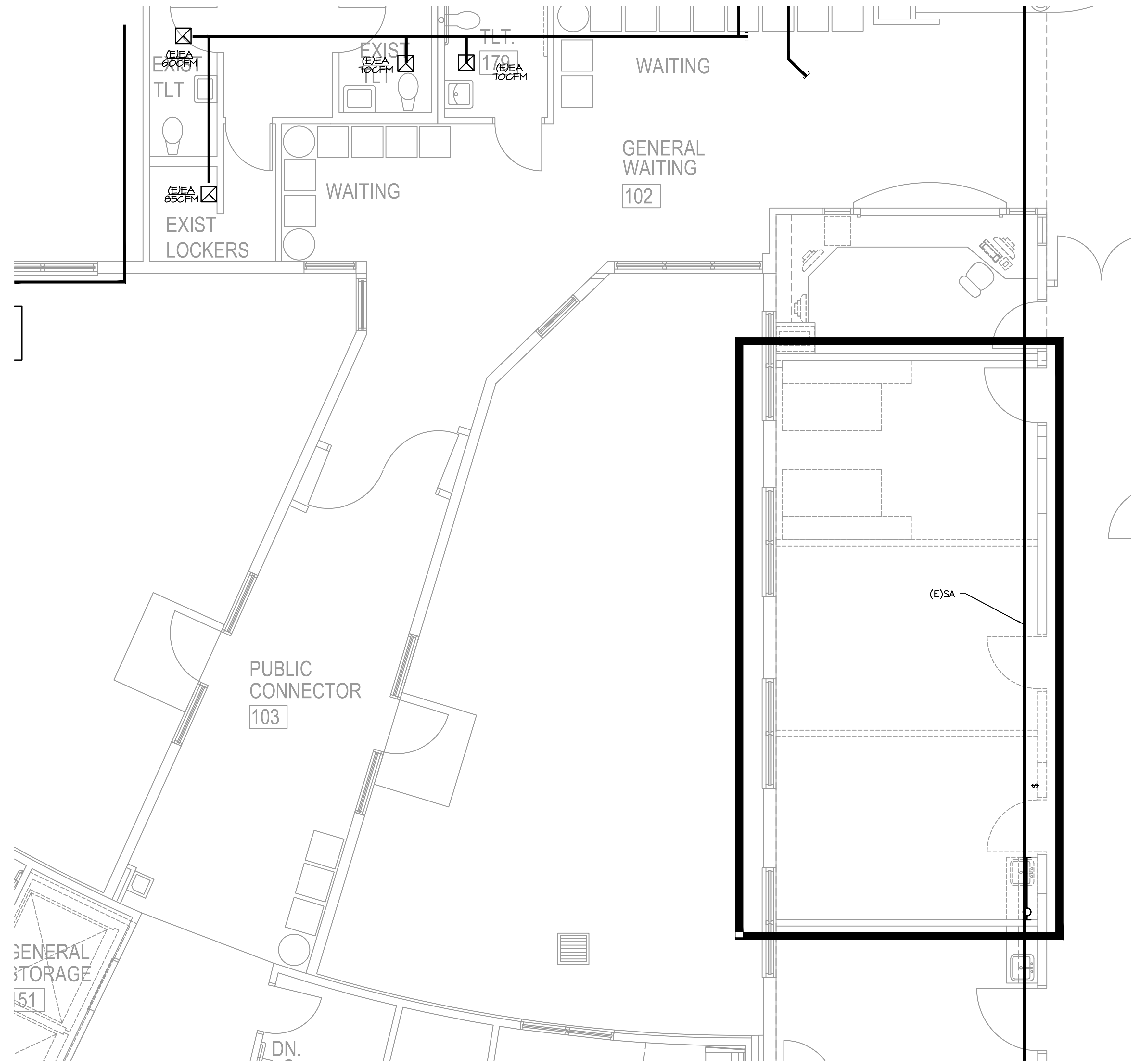
PROJECT NUMBER: 100016
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

NOT FOR CONSTRUCTION

MECHANICAL
DEMO PLAN
SOUTH

MD2.2

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KEYED NOTES: (#)

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2. DEMO DUCTWORK.
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MECHANICAL DEMO SCOPE:

EXISTING AHU-1, 2 AND 3 TO BE ABANDONED IN PLACE FOR FUTURE REMOVAL. EXISTING DUCTWORK TO BE DEMO'D AND/OR MODIFIED FOR CONNECTION TO NEW AHU-1 DUCT SYSTEM AND TO NEW VAV BOXES.

1 MECHANICAL DEMO PLAN - IMAGING
MD2.3 SCALE: 1/4" = 1'-0"

**M
F
A**
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INTERIOR REMODEL/ADDITION FOR:

**SKYLINE
HOSPITAL**
**CRITICAL ACCESS HOSPITAL
MODERNIZATION**
CRS # TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98612

PROJECT NUMBER: 100026
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

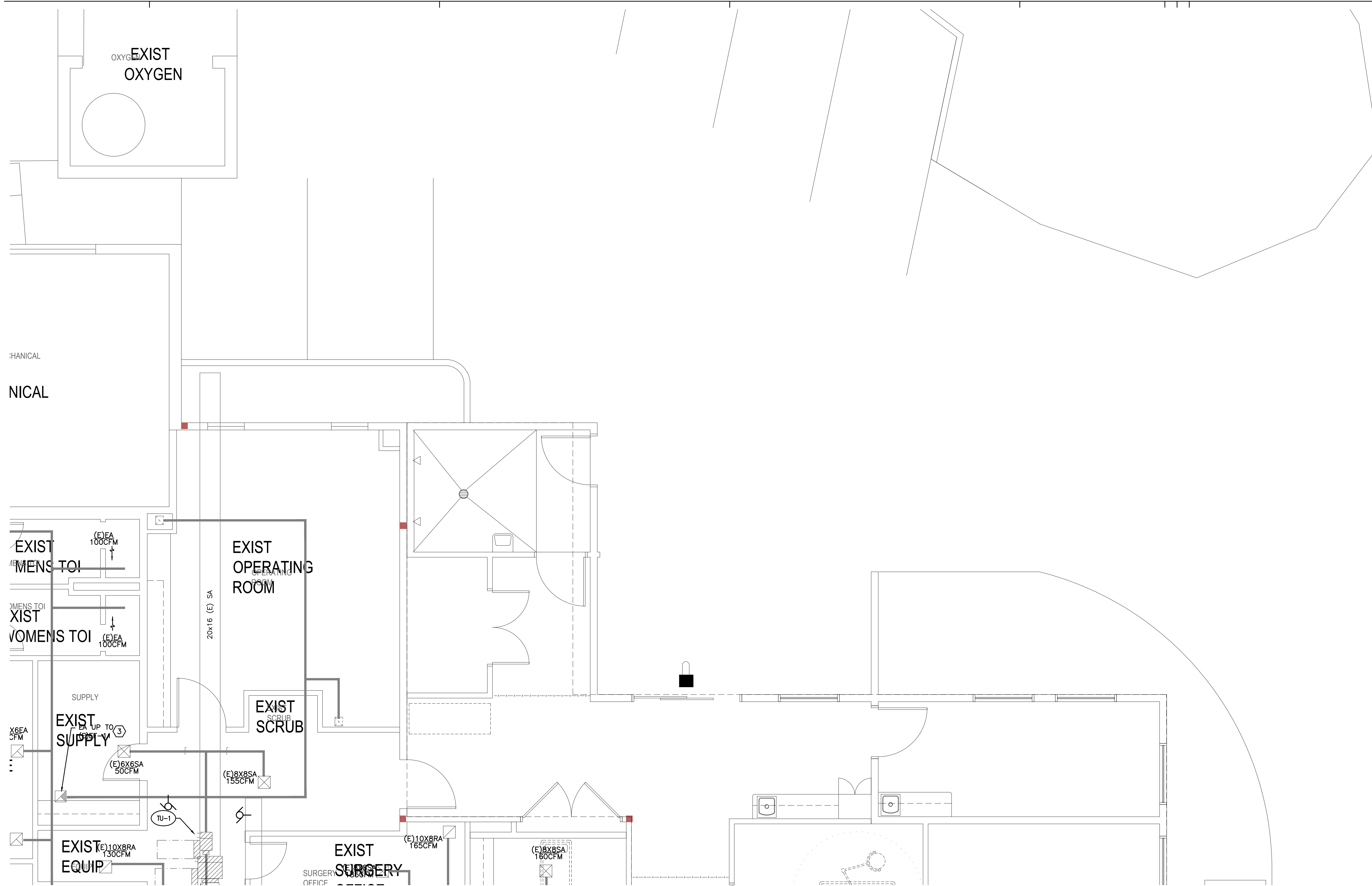
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MECHANICAL
DEMO PLAN
IMAGING

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4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

MECHANICAL SCOPE- NEW WORK:

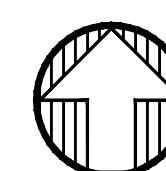
PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES TO BE UPGRADED TO NEW ALERTON CONTROLS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



PARTIAL MECHANICAL FLOOR PLAN

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



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INTERIOR REMODEL/ADDITION FOR:



CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED

211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 18002b
DATE: 10/31/20
DRAWN: TB
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PARTIAL
MECHANICAL
FLOOR PLAN

M2.1

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INTERIOR REMODEL/ADDITION FOR:



211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

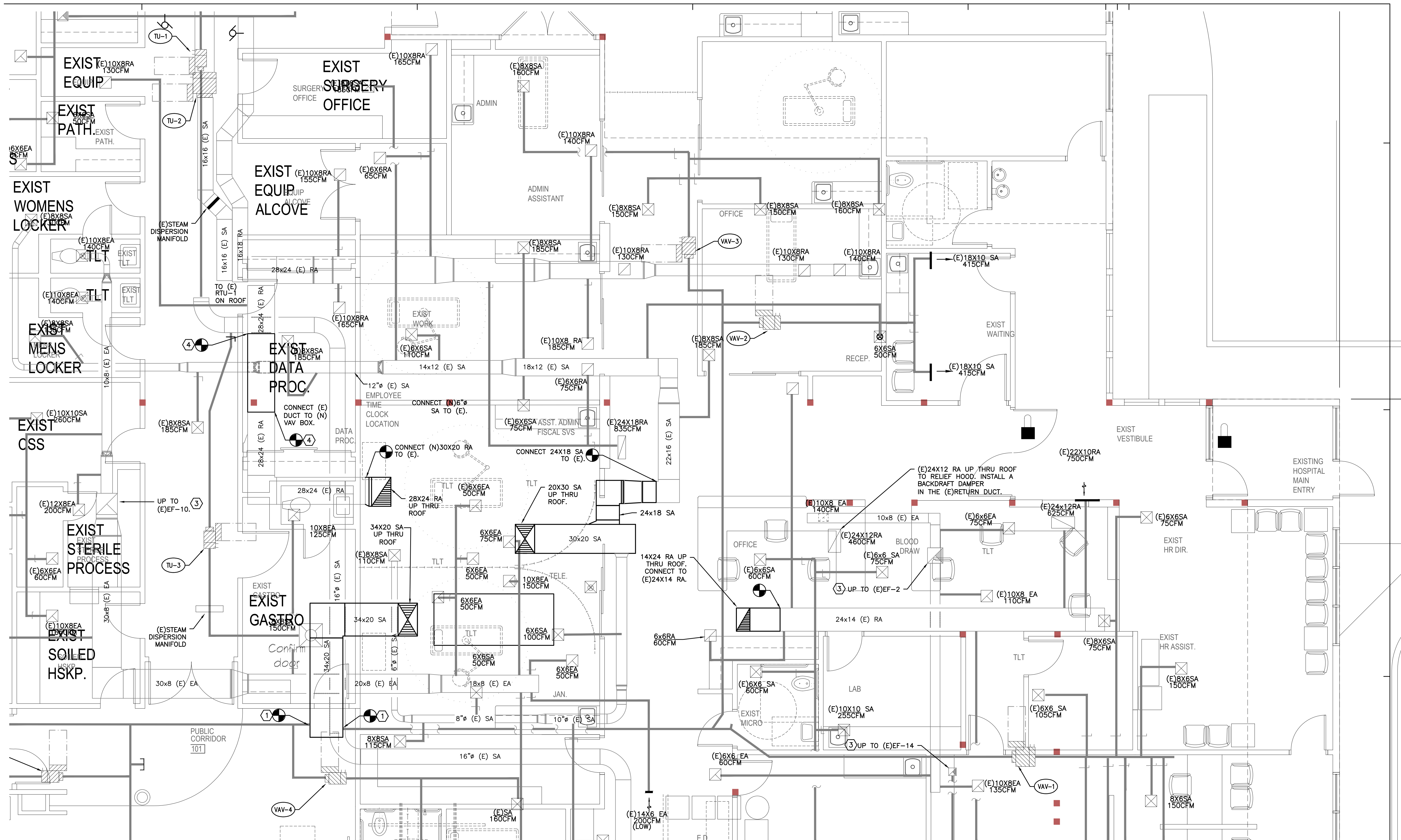
PROJECT NUMBER: 18002b
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

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PARTIAL
MECHANICAL
FLOOR PLAN

M2.2

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SHEET NOTES:

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4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

MECHANICAL SCOPE- NEW WORK:

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK
TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

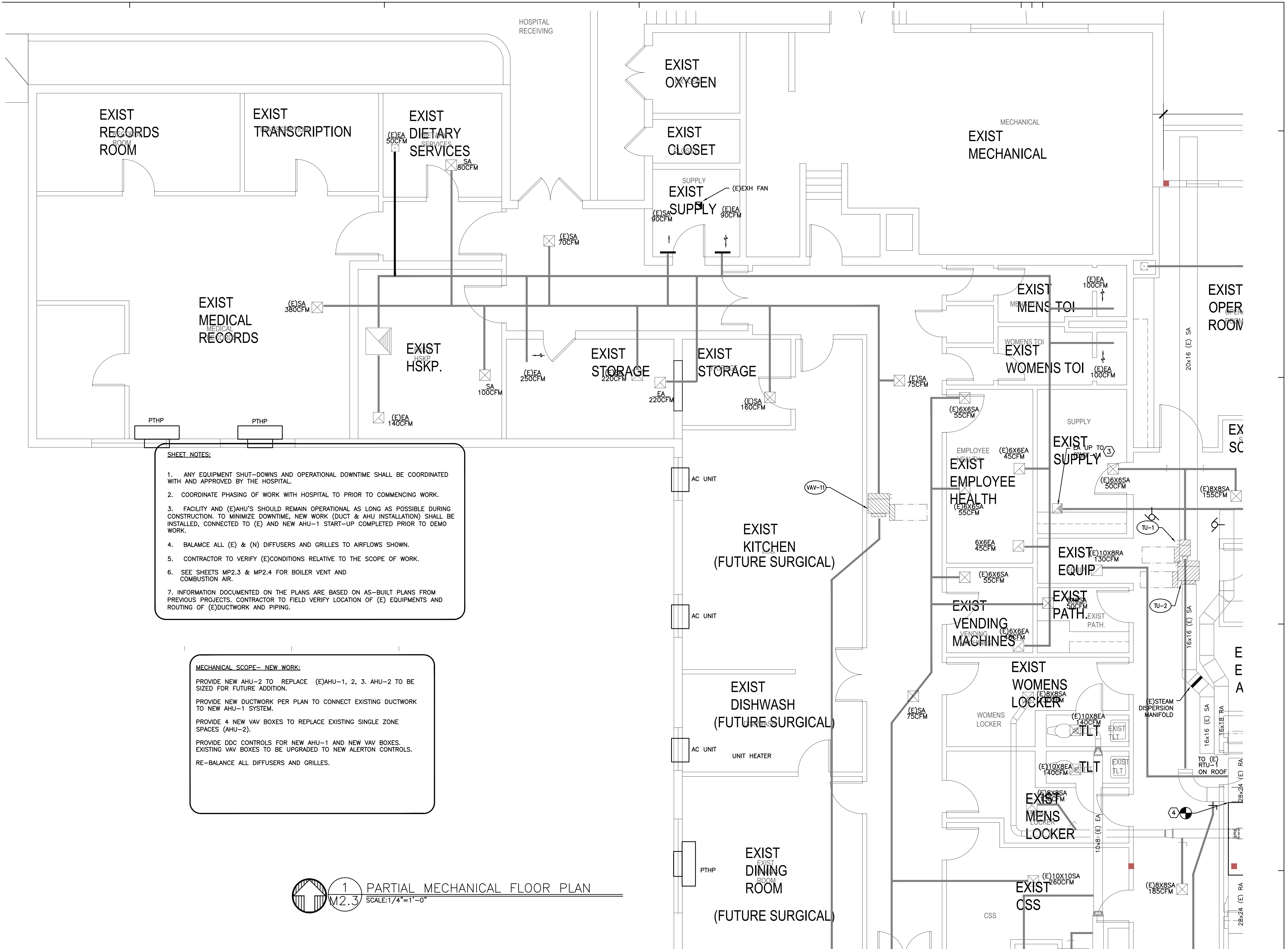
PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES.
EXISTING VAV BOXES TO BE UPGRADED TO NEW ALERTON CONTROLS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



1 PARTIAL MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

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



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MECHANICAL SCOPE- NEW WORK:

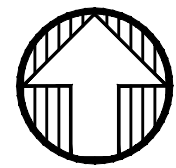
PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

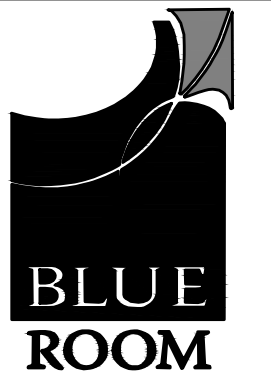
PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES TO BE UPGRADED TO NEW ALERTON CONTROLS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



1
M2.3

PARTIAL MECHANICAL FLOOR PLAN
SCALE: 1/4"=1'-0"



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INTERIOR REMODEL/ADDITION FOR:

SKYLINE
HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 18002b
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

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PARTIAL
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M2.3

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INTERIOR REMODEL/ADDITION FOR:



HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED

211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

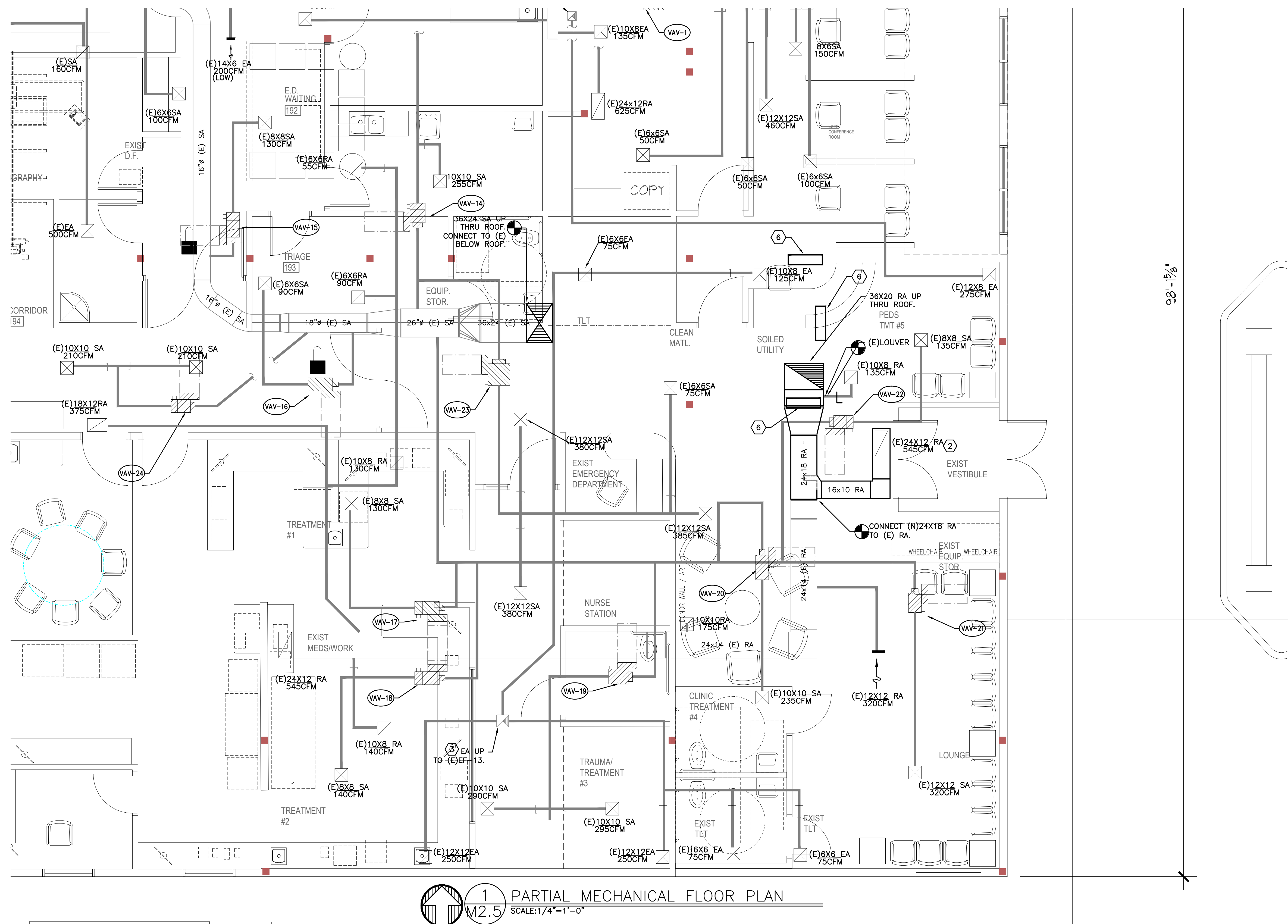
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DRAWN: TB
REVISIONS:

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FLOOR PLAN

M2.5

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MECHANICAL SCOPE- NEW WORK:

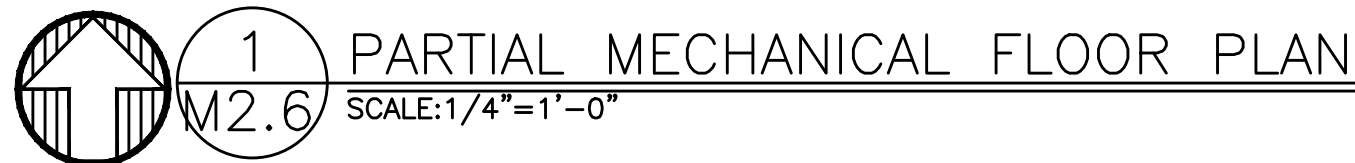
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PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK
TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES.
EXISTING VAV BOXES TO BE UPGRADED TO NEW ALERTON CONTROLS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



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4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES TO BE UPGRADED TO NEW ALERTON CONTROLS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



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INTERIOR REMODEL/ADDITION FOR:



HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED

211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

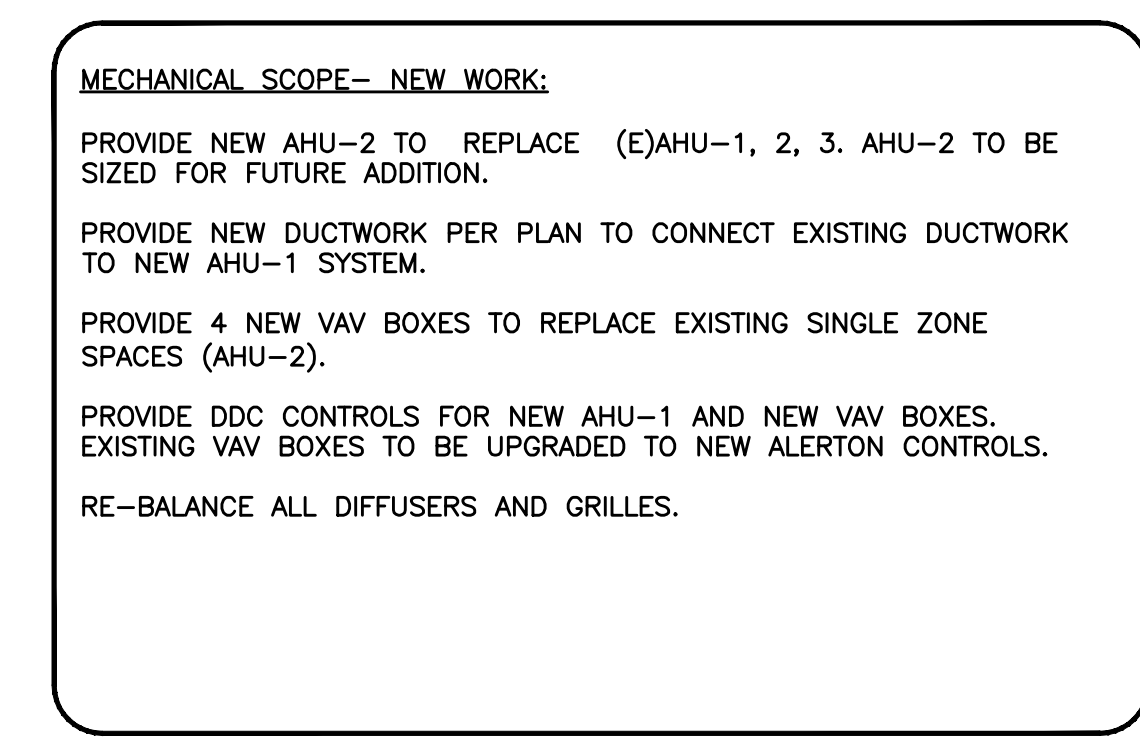
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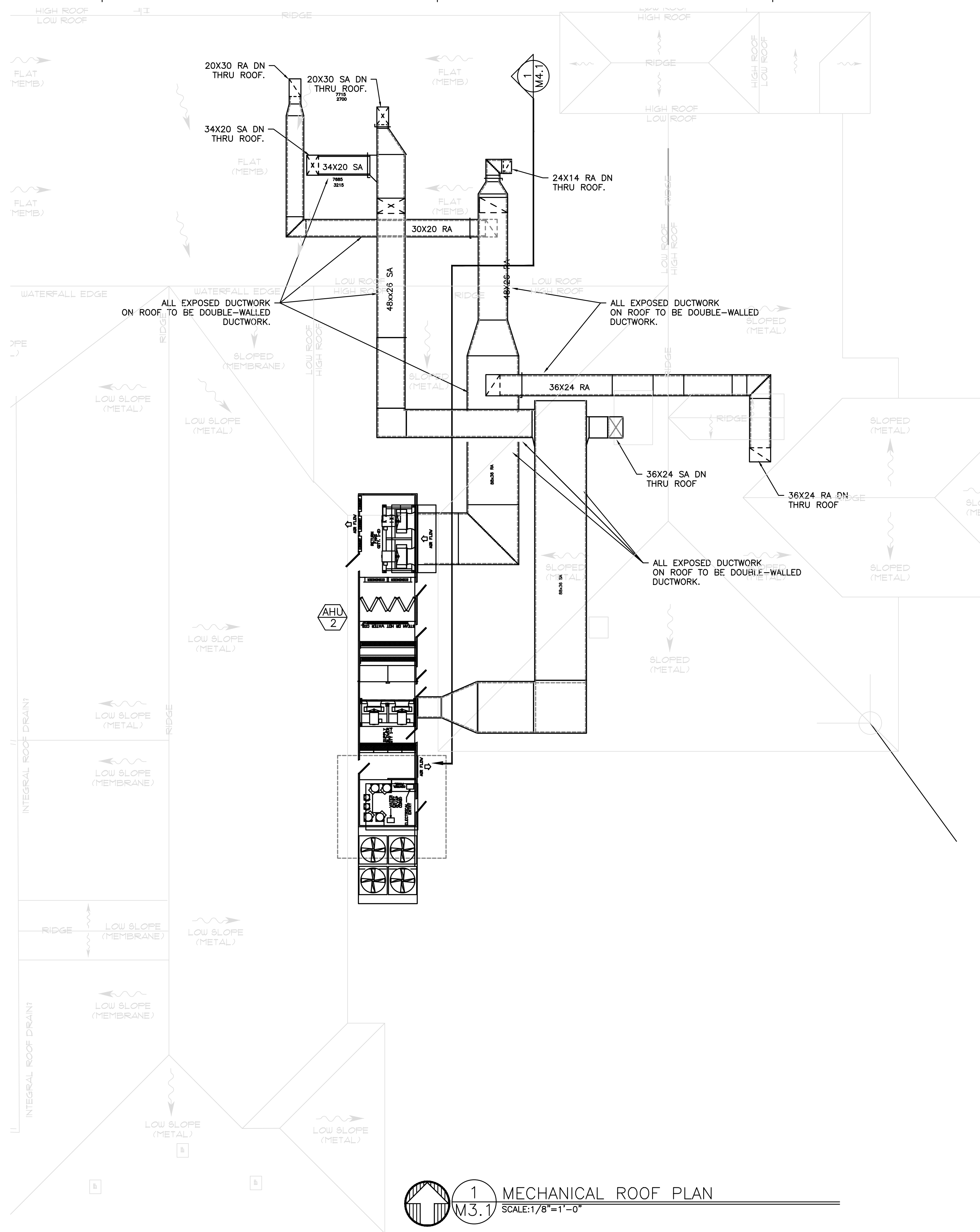
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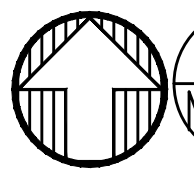
PARTIAL
MECHANICAL
FLOOR PLAN

M2.6

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 **1**
M3.1 MECHANICAL ROOF PLAN
SCALE: 1/8"=1'-0"

- SHEET NOTES:**
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 4. BALANCE ALL (E) & (N) DIFFUSERS AND GRILLES TO AIRFLOWS SHOWN.
 5. CONTRACTOR TO VERIFY (E)CONDITIONS RELATIVE TO THE SCOPE OF WORK.
 6. SEE SHEETS MP2.3 & MP2.4 FOR BOILER VENT AND COMBUSTION AIR.
 7. INFORMATION DOCUMENTED ON THE PLANS ARE BASED ON AS-BUILT PLANS FROM PREVIOUS PROJECTS. CONTRACTOR TO FIELD VERIFY LOCATION OF (E) EQUIPMENTS AND ROUTING OF (E)DUCTWORK AND PIPING.

MECHANICAL SCOPE- NEW WORK:

PROVIDE NEW AHU-2 TO REPLACE (E)AHU-1, 2, 3. AHU-2 TO BE SIZED FOR FUTURE ADDITION.

PROVIDE NEW DUCTWORK PER PLAN TO CONNECT EXISTING DUCTWORK TO NEW AHU-1 SYSTEM.

PROVIDE 4 NEW VAV BOXES TO REPLACE EXISTING SINGLE ZONE SPACES (AHU-2).

PROVIDE DDC CONTROLS FOR NEW AHU-1 AND NEW VAV BOXES. EXISTING VAV BOXES AND CONTROLS O REMAIN AS-IS.

RE-BALANCE ALL DIFFUSERS AND GRILLES.



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INTERIOR REMODEL/ADDITION FOR:


**CRITICAL ACCESS HOSPITAL
MODERNIZATION**
CRS TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

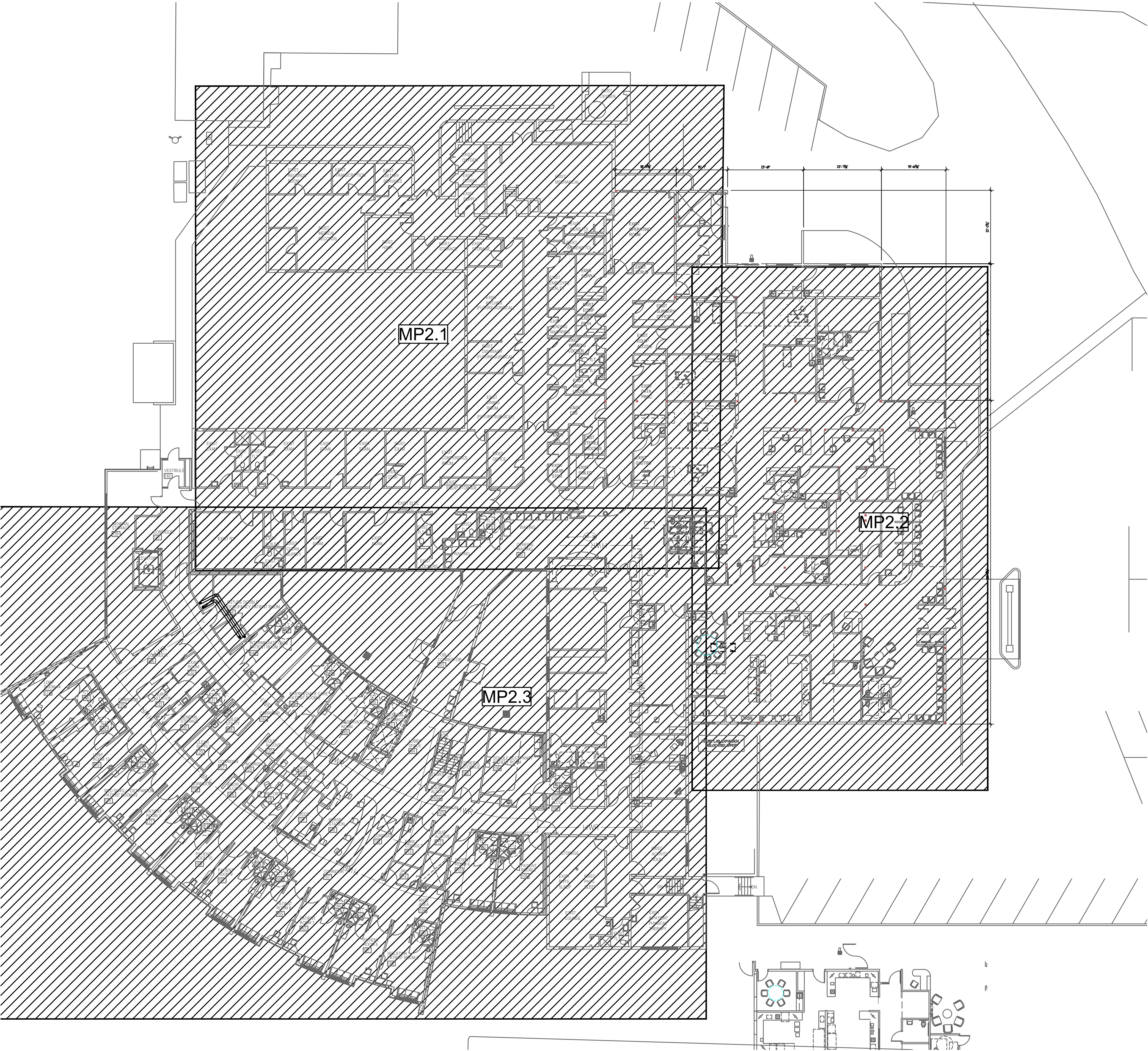
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MECHANICAL
ROOF PLAN

M3.1

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 4. EQUIPMENTS AND PIPING SHOWN ARE BASED ON EXISTING DOCUMENTS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

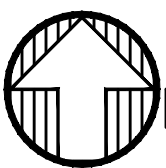
MECHANICAL PIPING SCOPE:

INSTALL NEW 3" HWS/HWR MAINS FROM 2008 ADDITION BOILER ROOM AND MAKE CONNECTIONS TO (E)HWS/HWR LOOPS.

CONNECT HWS/HWR PIPING TO NEW VAV BOXES AND NEW AHU-1.

PROVIDE REFRIGERANT LINES FROM NEW CU-1 TO NEW AHU-1.

SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.

 1 MECHANICAL PIPING SHEET INDEX
SCALE: 1/16" = 1'-0"



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INTERIOR REMODEL/ADDITION FOR:

 SKYLINE
HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED
211 9KT LINE DRIVE
WHITE SALMON, WASHINGTON 98672

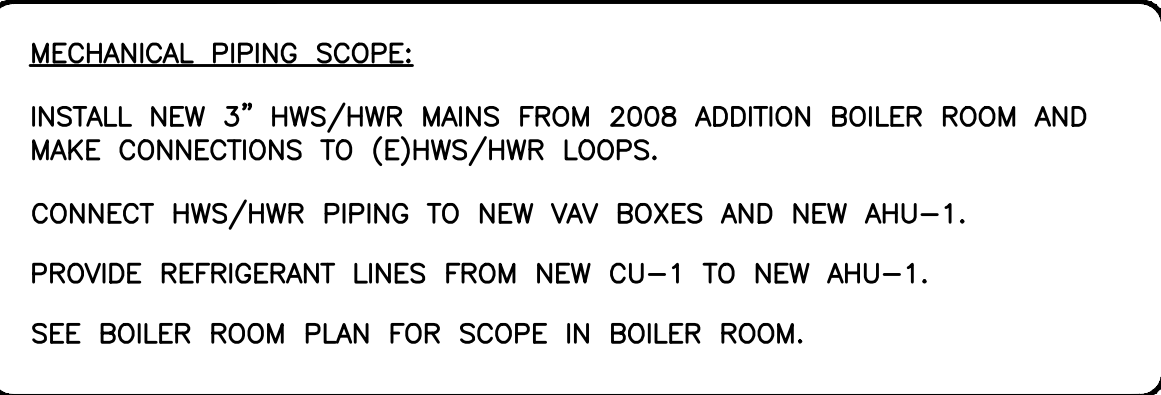
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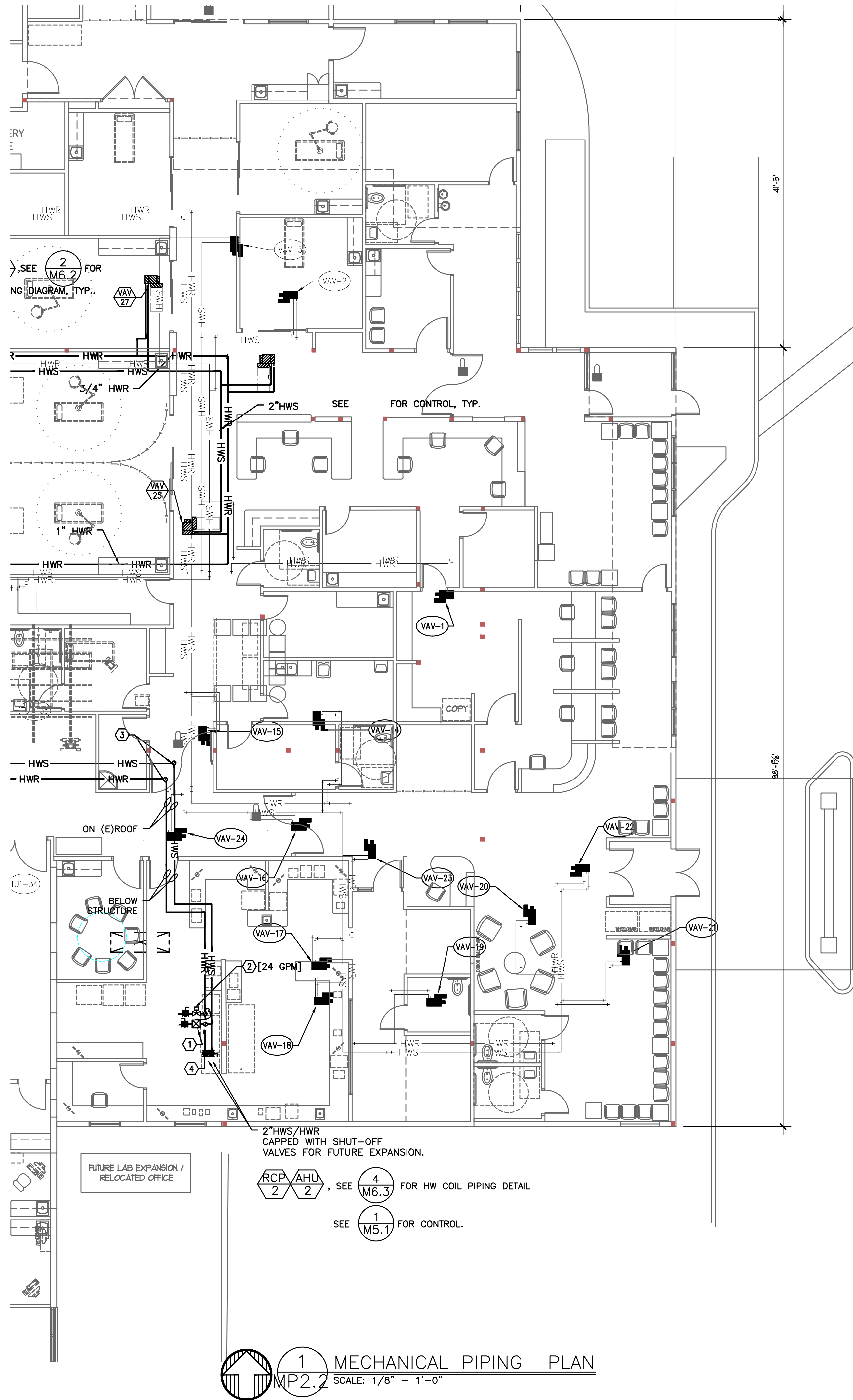
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MECHANICAL
PIPING PLAN
SHEET INDEX

MP2.0

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- KEYED NOTES:**
- ① - VICTAULIC T/A SERIES 794 DIFF. PRESSURE CONTROLLER.
 - ② - VICTAULIC T/A STAD SERIES BALANCE VALVE. SIZED FOR GPM SHOWN ON PLAN.
 - ③ - 2" HWS/2"HWR UP THRU ROOF; ROUTE PIPING ON (E)ROOF AND INTO BELOW AHU PLATFORM STRUCTURE. HEAT TRACE EXPOSED PIPING UNDER AHU PLATFORM. RUN PIPE TIGHT TO STRUCTURE.
 - ④ - 2" HWS/HWR UP THRU PLATFORM INTO COIL HOUSING.
 - ⑤ - 1-1/2" HWS/HWR CAPPED WITH SHUT-OFF VALVES FOR FUTURE.

MECHANICAL PIPING SCOPE:

INSTALL NEW 3" HWS/HWR MAINS FROM 2008 ADDITION BOILER ROOM AND MAKE CONNECTIONS TO (E)HWS/HWR LOOPS.

CONNECT HWS/HWR PIPING TO NEW VAV BOXES AND NEW AHU-1.

PROVIDE REFRIGERANT LINES FROM NEW CU-1 TO NEW AHU-1.

SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.



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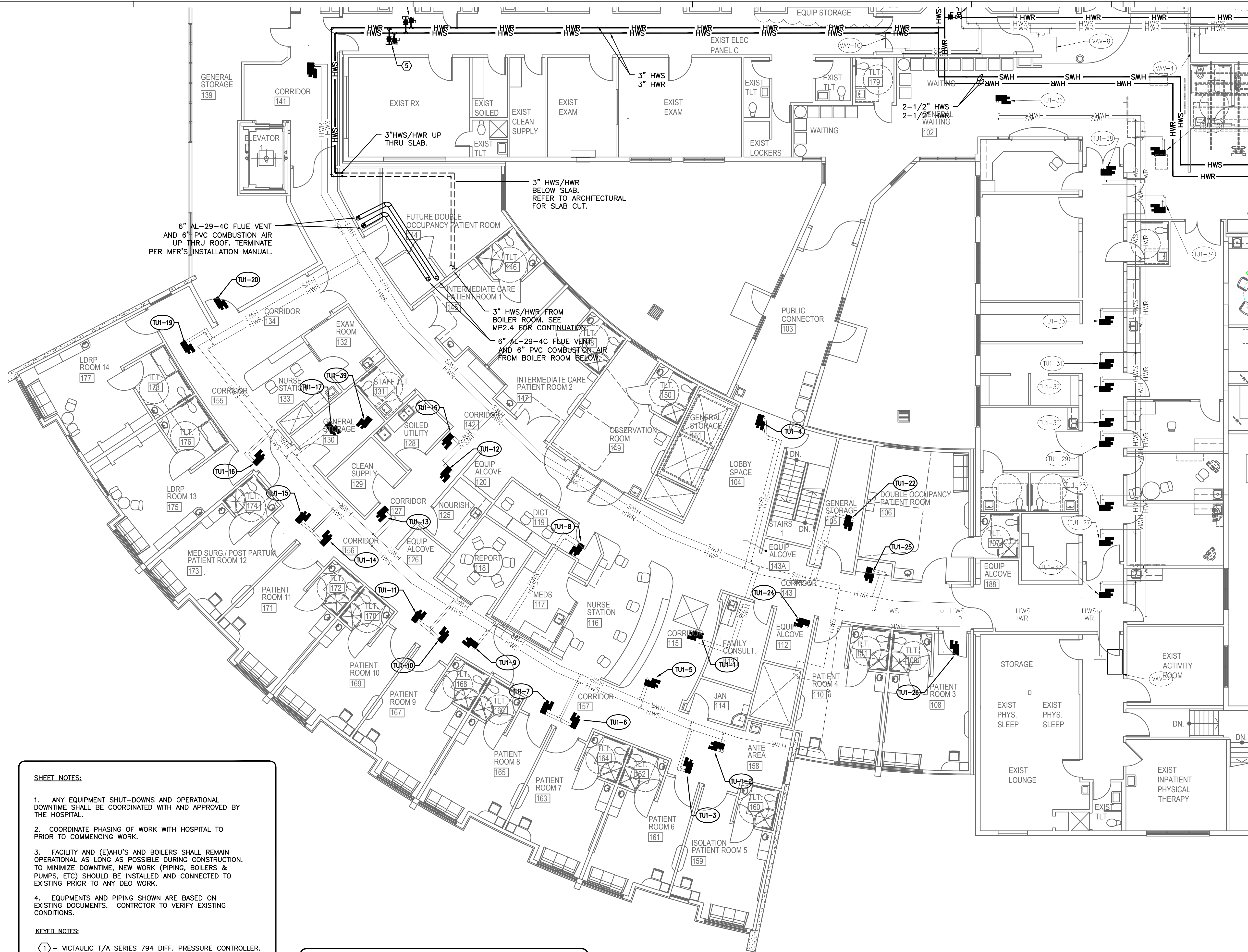
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MECHANICAL
PIPING PLAN

MP2.2

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SHEET NOTES:

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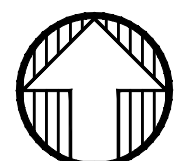
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INSTALL NEW 3" HWS/HWR MAINS FROM 2008 ADDITION BOILER ROOM AND MAKE CONNECTIONS TO (E)HWS/HWR LOOPS.

CONNECT HWS/HWR PIPING TO NEW VAV BOXES AND NEW AHU-1.

PROVIDE REFRIGERANT LINES FROM NEW CU-1 TO NEW AHU-1.

SEE BOILER ROOM PLAN FOR SCOPE IN BOILER ROOM.



1 MECHANICAL PIPING PLAN
MP2.3 SCALE: 1/8" = 1'-0"



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INTERIOR REMODEL/ADDITION FOR:

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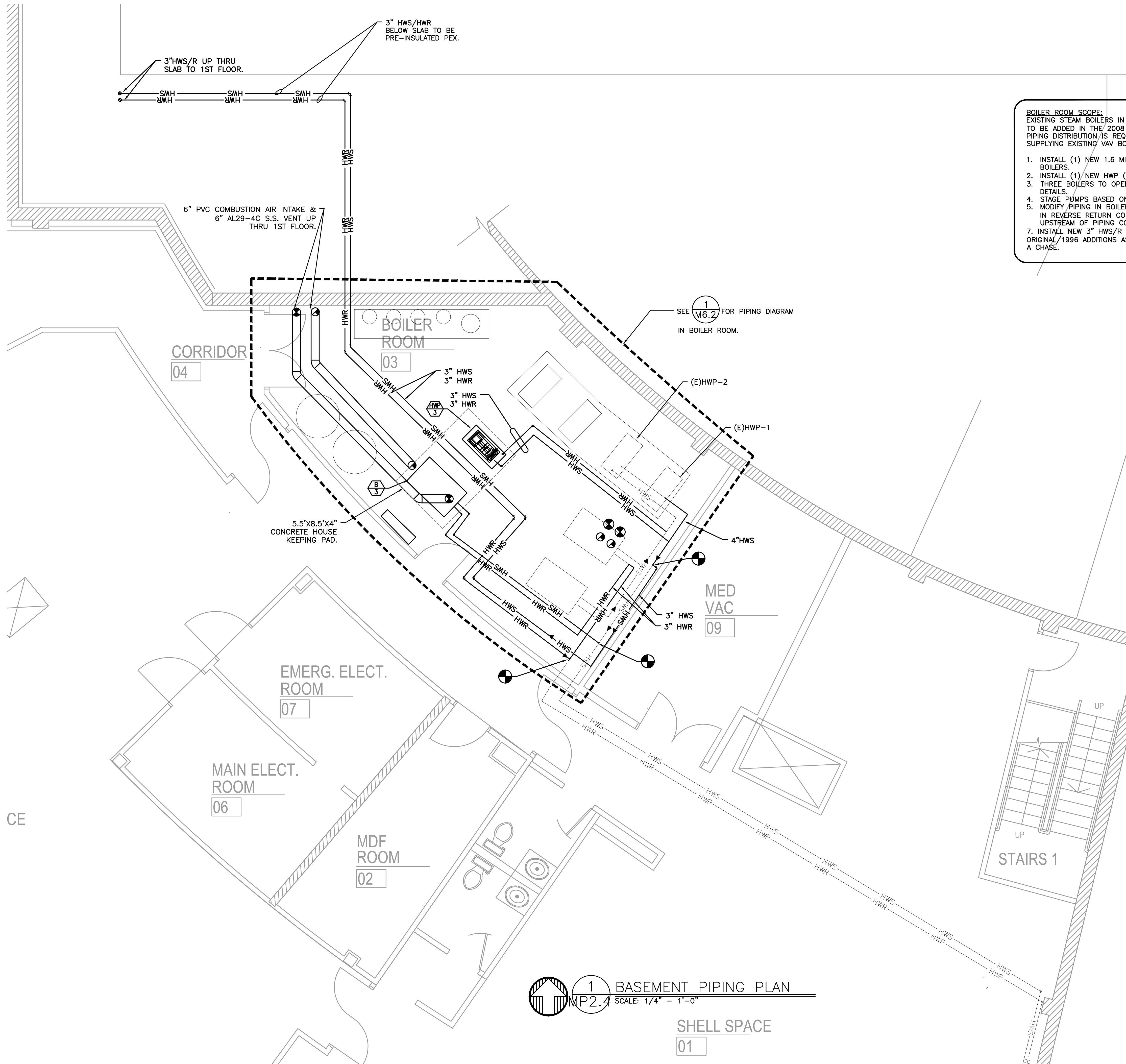
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MECHANICAL
PIPING PLAN

MP2.3

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BOILER ROOM SCOPE:
EXISTING STEAM BOILERS IN THE ORIGINAL BOILER ROOM TO BE REMOVED. NEW BOILER & PUMP TO BE ADDED IN THE 2008 BOILER ROOM TO REPLACE THE LOAD FROM (E)STEAM SYSTEMS. NEW PIPING DISTRIBUTION IS REQUIRED FROM 2008 BOILER ROOM TO TIE INTO EXISTING LOOPS SUPPLYING EXISTING VAV BOXES AND RADIATORS IN THE ORIGINAL BUILDING AND 1996 ADDITION.

1. INSTALL (1) NEW 1.6 MILLION INPUT BOILER IN PARALLEL WITH (2) EXISTING 1.0 MIL INPUT BOILERS.
2. INSTALL (1) NEW HWP (HWP-3).
3. THREE BOILERS TO OPERATE / STAGE IN TANDEM. SEE SEQUENCE OF OPERATIONS FOR DETAILS.
4. STAGE PUMPS BASED ON DEMAND. SEE SEQUENCE OF OPERATIONS FOR DETAILS.
5. MODIFY PIPING IN BOILER ROOM FOR THE ADDITIONAL BOILER AND PIPE ALL THREE BOILERS IN REVERSE RETURN CONFIGURATION. REPLACE 3" HWS/HWR MAINS TO 4" HWS/HWR UPSTREAM OF PIPING CONNECTIONS TO THE NEW BOILER.
7. INSTALL NEW 3" HWS/R PIPING DISTRIBUTION TO PICK UP (E)HWS/HWR SERVING ORIGINAL/1996 ADDITIONS AS WELL AS NEW AHU-3. RUN NEW 3" HWS/R TO MAIN FLOOR THRU A CHASE.



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MODERNIZATION
CRS TO BE DETERMINED
211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 18002b
DATE: 10/31/2018
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MECHANICAL
PIPING PLAN
BASEMENT

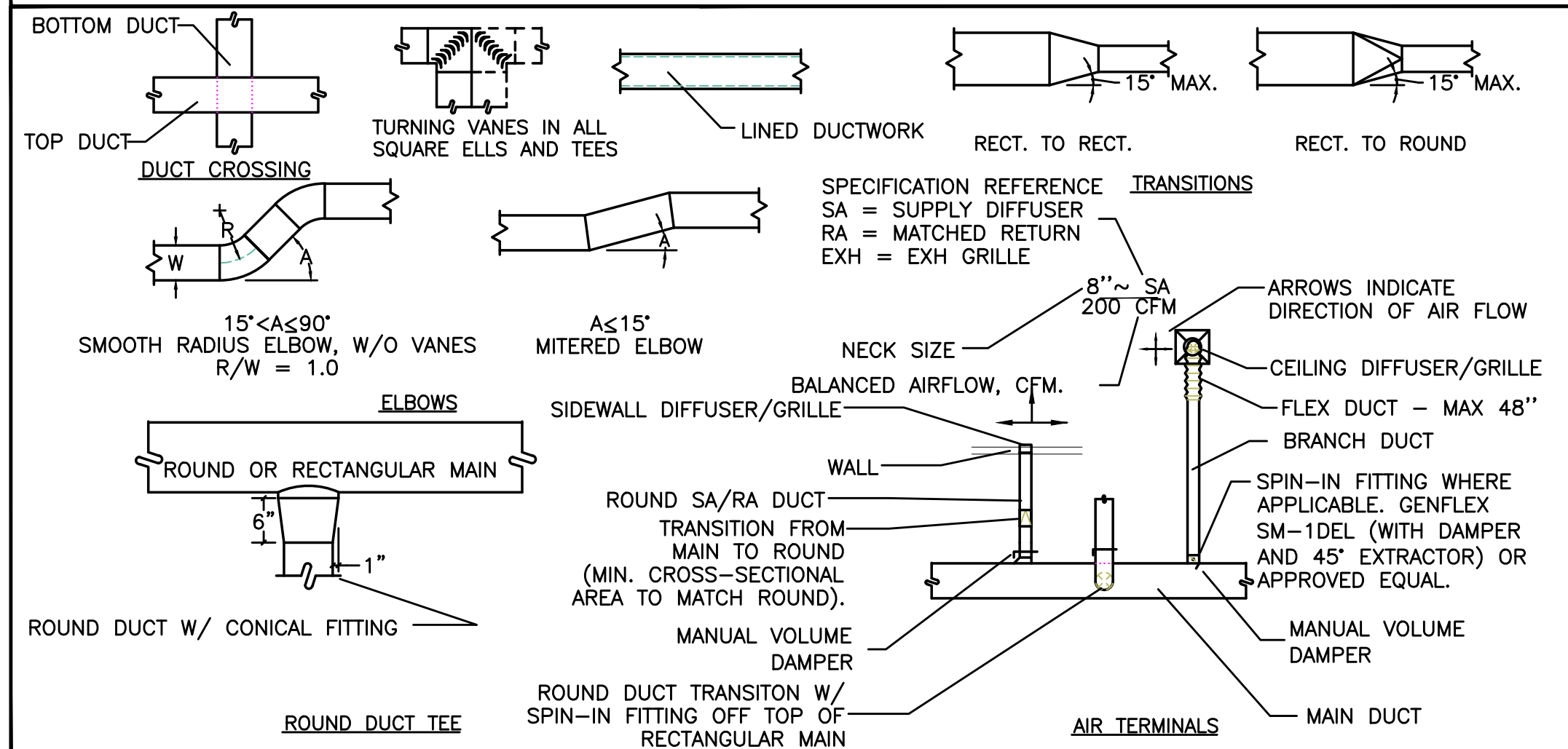
MP2.4

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MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER	AFF	ABOVE FINISH FLOOR
	RETURN AIR GRILLE	AHU	AIR HANDLING UNIT
	EXHAUST AIR GRILLE	B.D.	BOTTOM OF DUCT
	PERFORATED RETURN AIR PANEL	BHP	BRAKE HORSEPOWER
	DIRECTIONAL AIR FLOW	BTU	BRITISH THERMAL UNITS
	MANUAL VOLUME DAMPER	CFM	CUBIC FEET PER MINUTE
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	CONN.	CONNECTION
	RETURN AIR DUCT UP & DOWN	CONT.	CONTINUATION
	EXHAUST AIR DUCT UP & DOWN	CW	DOMESTIC COLD WATER
	SUPPLY OR OUTSIDE AIR DUCT UP & DOWN	DB	DRY BULB
	RETURN AIR DUCT UP & DOWN	DIA.	DIAMETER
	EXHAUST AIR DUCT UP & DOWN	DIST.	DISTRIBUTION
	VAV TERMINAL UNIT	EA	EXHAUST AIR
	VVT TERMINAL UNIT	EDB	ENTERING DRY BULB TEMPERATURE
	EXISTING	EWB	ENTERING WET BULB TEMPERATURE
	CONNECT TO EXISTING	EWT	ENTERING WATER TEMPERATURE
	THERMOSTAT OR TEMP. SENSOR	FF	FINISH FLOOR
	NOTE	FIXT.	FIXTURE
	EQUIPMENT DESIGNATOR	FPM	FEET PER MINUTE
	BALL VALVE	FPS	FEET PER SECOND
	GATE VALVE	FT.	FEET / FOOT
	CHECK VALVE	GA.	GAUGE
	BALANCING VALVE	GPM	GALLONS PER MINUTE
	THERMOMETER	H	HEIGHT
	DIRECTION OF FLOW	HP	HORSEPOWER
	PUMP	I.D.	INSIDE DIAMETER
	STRAINER	IN.	INCHES
	PRESSURE GAUGE	L	LENGTH
	PETE'S PLUG	LBS.	POUNDS
	DOUBLE CHECK ASSEMBLY	LDB	LEAVING DRY BULB
	PRESSURE REDUCING VALVE	LWB	LEAVING WET BULB
	UNION	LWT	LEAVING WATER TEMPERATURE
	2-WAY CONTROL VALVE	MAX.	MAXIMUM
	3-WAY CONTROL VALVE	MBH	THOUSANDS OF BTUs PER HOUR
	CAP	MIN.	MINIMUM
	SMOKE DETECTOR	NC	NOISE CRITERIA
	MOTORIZED DAMPER	N.C.	NORMALLY CLOSED
		N.I.M.	NOT IN MECHANICAL
		NO.	NUMBER
		N.O.	NORMALLY OPEN
		O.A.	OUTSIDE AIR
		P	PERSON
		PSI	POUNDS PER SQUARE INCH
		P/T	PRESSURE / TEMPERATURE
		R.A.	RETURN AIR
		RECT.	RECTANGULAR
		REQ'D	REQUIRED
		S.A.	SUPPLY AIR
		S.P.	STATIC PRESSURE
		SQ.	SQUARE
		TEMP.	TEMPERATURE
		TYP.	TYPICAL
		VAV	VARIABLE AIR VOLUME
		W	WIDTH
		WB	WET BULB
		WPD	WATER PRESSURE DROP
		ø	DIAMETER
			(E) EXISTING
			//// (D) DEMOLISH
			NEW WORK
			HWS (HWS) HEATING WATER SUPPLY
			HWR (HWR) HEATING WATER RETURN
			FIRE DAMPER
			FIRE / SMOKE DAMPER
			SMOKE DAMPER
			SEISMIC BRACING
			LATERAL BRACING
			LONGITUDINAL BRACING
			LONGITUDINAL & LATERAL BRACING

AIR DISTRIBUTION DETAILS



BOILERS

MARK NUMBER	B 3
SYSTEM	BUILDING HEAT
FUEL	NAT. GAS
GAS INPUT. (MBH)	1,600
GROSS OUTPUT (MBH)	1,483
ENT. WATER TEMP (°F)	110
LVG. WATER TEMP (°F)	140
FLOW RATE (GPM)	100 GPM
EXH VENT DIAMETER	6"ø/S.S. AL29-4C
EXH VENT TYPE	CATEGORY IV
COMBUSTION AIR INTAKE DIA.	6"ø
EFFICIENCY(%)	92.6 %
BOILER DESIGN WEIGHT (LBS)	2200 LBS
BOILER TYPE	CONDENSING
BASIS OF DESIGN:	HYDROTHERM: KN-16

PUMPS

MARK NUMBER	HWP 3	RCP 2
SERVICE	BOILERS	AHU-2
TYPE		
ARRANGEMENT	BASE MTS	IN-LNE
FLOW RATE (GPM)	100 GPM	46.5 GPM
HEAD (FT)	75 FT	15 FT
MOTOR HP	5 HP	1/3 HP
VFD	YES	NO
RPM	1750 RPM	1750 RPM
DESIGN WEIGHT (LBS)	210 LBS	65 LBS
BASIS OF DFESIGN: B & G	1510-1.5BC	E-90

AIR HANDLING UNITS

MARK NUMBER	AHU 2
SYSTEM	
TYPE	(2)
CFM	30,000 (1)
MIN OSA %	25%(1)
ESP/TSP (" H2O)	2.5"/6.3"
RPM	1622 RPM
MOTOR (QTY)H.P.	(2)25-HP
BHP	21.89 BHP EA
WHEEL TYPE	AF/PLENUM
WHEEL DIA (")/ DRIVE	30.4"/DD
FAN ISOLATION	SPRING
SPEED CONTROLLER	VFD
PRE-FILTER MIN. FILTER: MAX VELOCITY	500 FPM
PRE-FILTER TYPE	MERV 8, 2"
FINAL MIN. FILTER: MAX VELOCITY	500 FPM
FINAL FILTER TYPE	HEPA/MERV 17
CFM	30,000 (1)
ESP/TSP (" H2O)	1.5"/1.8"
RPM	1005 RPM
MOTOR (QTY)H.P.	(2) 10-HP
BHP	7.87 BHP EA
WHEEL TYPE	AF/PLENUM
WHEEL DIA (")/DRIVE	33.5"/DD
INTERLOCK WITH	SA FAN
FAN ISOLATION	SPRING
SPEED CONTROLLER	VFD
CFM	30,000 (1)
FACE AREA (SQFT)	
FACE VELOCITY, MAX.	
HW EWT/LWT (°F)	140/110
EAT/LAT (°F)	
HEATING CAPACITY (MBH)	
AIR PRESSURE DROP (" W.G.)	
WATER PD (FT)	
WATER FLOW (GPM)	
ANTI-FREEZE	
2-WAY/3-WAY VALVE	3-WAY
CFM	30,000 (1)
FACE AREA (SQFT)	65.6
FACE VELOCITY, MAX.	457 FPM
EAT (DB/WB) °F	
LAT (DB/WB) °F	
SENSIBLE CAPACITY(MBH)	
TOTAL CAPACITY (MBH)	
AIR PRESSURE DROP (" W.G.)	
# COMPRESSORS	2 (5)
REFRIGERANT	R-410A
ROWS/FPI	6 / 12 FPI
EER	10.3
UV LIGHT	YES
SMOKE DETECTOR	YES
DESIGN WEIGHT (LBS)	21, 500 LBS
BASIS OF DESIGN: AARON	RL100

- NOTES:
- TOTAL CAPACITY SHOWN INCLUDING FUTURE ADDITION. SET CURRENT AIRFLOWS TO 13570 CFM SUPPLY AND 6150 CFM OSA.
 - SUPPLY FAN/RA FAN SPEED TO BE CONTROLLED BY DISCHARGE PRESSURE TO MAINTAIN CONSTANT AIRFLOW TO SPACES.
 - PROVIDE OUTSIDE AIR FLOW MEASURING STATION.
 - AIR HANDLER TO BE INSTALLED SUCH THAT THE OSA INTAKE IS MINIMUM OF 36" ABOVE ROOF LEVEL. CONTRACTOR TO COORDINATE AND VERIFY MINIMUM CURB HEIGHT REQUIRED.
 - AT LEAST ONE COMPRESSOR SHALL BE VARIABLE SPEED.



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CIVIL ENGINEER

STRUCTURAL ENGINEER

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PRELIMINARY
NOT FOR
CONSTRUCTION

THIS PROJECT INCLUDES THE INTERIOR REMODEL OF AN EXISTING CRITICAL ACCESS HOSPITAL FACILITY THAT IS TO REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR BIDS SHALL BE BASED ON VERIFICATION OF EXISTING ON-SITE CONDITIONS. UNINTERRUPTED ESSENTIAL HEALTHCARE SERVICES DURING THE CONSTRUCTION PERIOD. ONGOING COORDINATION OF ALL RELATED TRADES FOR CURRENT CODE COMPLIANCE, PATIENT SAFETY, JURISDICTIONAL REVIEW, SYSTEM PERFORMANCE AND UNFORESEEN CLINICAL DISRUPTION(S).

INTERIOR REMODEL/ADDITION FOR:

SKYLINE
HOSPITAL
CRITICAL ACCESS HOSPITAL
MODERNIZATION
CRS TO BE DETERMINED

211 SKYLINE DRIVE
WHITE SALMON, WASHINGTON 98672

PROJECT NUMBER: 180002b
DATE: 10/31/2018
DRAWN: TB
REVISIONS:

NOT FOR CONSTRUCTION

MECHANICAL
LEGENDS, DETAILS,
AND SCHEDULES

M6.1

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