

ADDENDUM NO. 2

The additions, omissions, clarifications and corrections contained herein shall be made to drawings and specifications for the project and shall be included in scope of work and proposals to be submitted. References made below to specifications and drawings shall be used as a general guide only. Bidder shall determine the work affected by Addendum items.

General and Bidding Requirements:

1.	Bid Opening	Location: District Facilities & Capital Projects Esmerelda Location, 3939 North Freya Street. Push doorbell for entry.
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In the Specifications:

1.	Section 01 23 00 Alternates	ADD: To Part 3 – Execution Schedule of Alternates D: Alternate No. 04: New Rooftop Unit – MXU-5: 3. Alternate no. 4: Assume construction activities impacting Room 101 & Room 101F will occur during Normal Working hours coinciding with Spring Break from Friday 3-27-20 through Sunday 4-5-20 to minimize interior disruptions. Should schedule not allow the work to occur during Spring Break, evenings (6:00pm to 6:00am) and weekends will be required. 4. Alternate no. 4: Room 101 and Room 101F are occupied spaces with interior finishes requiring protection during construction activities. Owner shall prepare Room 101 & Room 101F for construction activities by providing & installing protective tarps and temporarily relocating minimal quantity of furnishings. Coordinate with Owner to minimize the interior work footprint and schedule concerns to minimize interior disruptions. 5. Alternate no. 4: Contractor shall coordinate removal, salvage and reinstallation of existing ceiling assembly, HVAC diffusers, lights, etc. to accommodate overhead work. Existing fire alarm devices and fire sprinkler heads shall be protected in place. Replacement of salvaged items between work shifts will not be required. 6. Alternate no. 4: Owner shall provide temporary heating and cooling as needed.
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2.	<p>Section 21 05 00 Common Work Results for Fire Suppression</p>	<p>ADD: Section 1.1 E to read: Lair building 6 is served by an existing wet pipe automatic sprinkler system. Except the areas of work, the building will remain occupied during construction. The areas of work requiring existing sprinkler system modifications are the Scope of Project as indicated on A6/G-003 Level 01 – Key Plan and discrete adjacent areas made necessary by associated construction activities. The Contractor shall maintain building wide System integrity and functionality allowing Work to proceed without impacting building areas outside the Scope. Contractor shall be responsible for determining pipe route, size, valve type, valve placement, etc. and removal of temporary components unless intended to remain as part of the completed System. Contractor shall provide for two (2) separate System draw-downs and System bi-pass operations; one each to coincide with Phase 1 and Phase 2 operations.</p> <p>REPLACE Section 3.2.B to read: The Drawings do not indicate the existing nor the proposed Wet Pipe Sprinkler System and its associated components. The Contractor is responsible for coordinating with the Owner's record documents and field conditions including but not limited to: location and size of existing pipe, isolation valves, auxiliary drains, sprinkler heads, hydraulic calculation variables, etc. to develop Working (Shop) Drawings that accommodate Architectural, Mechanical and Electrical considerations as indicated in the Contract Documents regarding the Base Bid and accepted Alternates.</p>
3.	<p>Section 23 07 00 HVAC Insulation Systems</p>	<p>DELETE Paragraph 1.3B LEED Submittals</p>
4.	<p>Section 23 09 00 Instrumentation and Control Systems</p>	<p>REPLACE Section 2.20.C with the following:</p> <p>C. The controls system subcontractor shall provide control wiring for VFDs. Division 26 contractor shall provide power to factory mounted VFDs once they are installed in the field.</p>
	<p>Section 23 31 00 Metal Ducts and Casings</p>	<p>REPLACE Section 1.2.B with the following:</p> <p>B. Related Sections include the following:</p> <ol style="list-style-type: none"> 1. Division 23 Section "Air Duct Accessories" for dampers, sound-control devices, duct-mounting access doors and panels, and flexible ducts.

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6.	<p>Section 23 33 00 Air Duct Accessories</p>	<p>REPLACE Section 1.2.B with the following:</p> <p>B. Related Sections include the following:</p> <ol style="list-style-type: none"> 1. Division 23, Section 23 09 00, "Instrumentation and Control for HVAC" for electric and pneumatic damper actuators. 2. Division 23, Section "Metal Duct and Casings" for test ports, stuffing boxes, turning vanes, joint sealant, and safety relief access doors.
7.	<p>Section 23 37 00 Air Inlets and Outlets</p>	<p>REPLACE Section 1.2.B with the following:</p> <p>B. Related Sections include the following:</p> <ol style="list-style-type: none"> 1. Division 23 Section "Air Duct Accessories" for fire and smoke dampers and volume-control dampers not integral to diffusers, registers, and grilles.
8.	<p>Section 23 75 00 Packaged Outdoor HVAC Equipment</p>	<p>DELETE Section 1.1.B.</p>
9.	<p>Section 26 09 43 Network Lighting Controls</p>	<p>REVISE Section 2.1.A.3 to read: Leviton.</p>

In the Drawings:

1.	<p>Sheet A-103 Roof Plan (Partial)</p>	<p>REISSUED sheet in its entirety</p>
2.	<p>Sheet A-110 Level 01 (Partial)–Floor Plan</p>	<p>REVISED General Note 3 – revised sheet reference to read "See Sheet A-501 for wall types legend."</p>
3.	<p>Sheet A-120 Level 01 (Partial)–Reflected Ceiling Plan</p>	<p>REISSUED sheet in its entirety</p>
4.	<p>Sheet A-501 Mechanical Details</p>	<p>REVISED Detail D3/A-501</p>
5.	<p>Sheet A-501 Mechanical Details</p>	<p>ADDED Detail for Wall Type "A"</p>
6.	<p>Sheet M-101 HVAC Demo Plan – Base Bid</p>	<p>REISSUED sheet in its entirety</p>
7.	<p>Sheet M-102 HVAC Demo Plan – Alternate Bid</p>	<p>REISSUED sheet in its entirety</p>
8.	<p>Sheet M-201 HVAC Plan – Base Bid</p>	<p>REISSUED sheet in its entirety</p>

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9.	Sheet M-202 HVA Plan – Alternate Bid	REISSUED sheet in its entirety
10.	Sheet M-203 Mechanical Roof Plan	REISSUED sheet in its entirety
11.	Sheet M-501 HVAC Details	REISSUED sheet in its entirety
12.	Sheet M-502 Mechanical Details	REISSUED sheet in its entirety
13.	Sheet M-601 HVAC Schedules	REISSUED sheet in its entirety
14.	Sheet M-702 Mechanical Control Diagrams	REISSUED sheet in its entirety
15.	Sheet P-501 Plumbing Details and Schedules	REISSUED sheet in its entirety
16.	Sheet E-001 Abbreviations, Symbols, Legends, and Sheet Index	REISSUED sheet in its entirety
17.	Sheet EL-110 Lighting Plan	REISSUED sheet in its entirety
18.	Sheet EP-110 Power Plan	REISSUED sheet in its entirety
19.	Sheet EP-111 Electrical Roof Plan	REISSUED sheet in its entirety
20.	Sheet E-701 Lighting Schedule	REISSUED sheet in its entirety
21.	Sheet E-711 Mechanical Equipment Schedule	REISSUED sheet in its entirety

Acceptance of Substitutions

Add the following to approved list of manufacturers at this time.

This approval is an approval of quality only. No attempt has been made to check each material as to special features, capacities or physical dimensions especially required by this project. It shall be the responsibility of supplier, manufacturer and Contractor to check all requirements before submitting for final approval. Final approval of exact features, sizes, capacities, etc., all of which must match materials indicated/specified, will be determined when submitted during construction period. Certain approvals are subject to conditions as noted.

	SECTION	ITEM	MANUFACTURER
1.	26 51 00 – Lighting	R.B1 R.J1 R.J2 R.J3	CORELITE PINNACLE LIGHTING PINNACLE LIGHTING PINNACLE LIGHTING

GENERAL NOTES

1. ALT. 04: SEE SHEET M-203 FOR WORK IN ROOM 208

KEYNOTES

- R.06 EXISTING HVAC UNIT TO REMAIN PER BASE BID. ALT. 04: REMOVE EXISTING HVAC UNIT, CURB AND DUCT WORK AND PROVIDE NEW. WHERE DESIGNATION "MZU-5" IS REFERENCED, INCLUDING THE BID FORM AND SPEC SECTION 01 25 00 ALTERNATES, PART 3. D. BIDDERS SHALL READ AS "AHU-7"
- R.07 ROOF AREA "M": BUILT-UP ROOFING MEMBRANE AND ABOVE ROOF DECK INSULATION. WARRANTY EXPIRED. "UNIFLEX ACRYLIC ELASTOMERIC ROOF COATING SYSTEM" - ACTIVE 10 YEAR WARRANTY. CONTACT: ALL WALL CONTRACTING, INC. (208) 773-4650. ALL SURFACE ROOFING (509) 413-2849 OR MANUFACTURER APPROVED APPLICATOR
- R.08 ROOF AREA "Q": BUILT-UP ROOFING MEMBRANE AND ABOVE ROOF DECK INSULATION. WARRANTY EXPIRED. "UNIFLEX ACRYLIC ELASTOMERIC ROOF COATING SYSTEM" - ACTIVE 10 YEAR WARRANTY. CONTACT: ALL WALL CONTRACTING, INC. (208) 773-4650. ALL SURFACE ROOFING (509) 413-2849 OR MANUFACTURER APPROVED APPLICATOR
- R.09 ROOF AREA "K": TPO MEMBRANE AND ABOVE ROOF DECK INSULATION. WARRANTY EXPIRED. "UNIFLEX ACRYLIC ELASTOMERIC ROOF COATING SYSTEM" - ACTIVE 10 YEAR WARRANTY. CONTACT: ALL WALL CONTRACTING, INC. (208) 773-4650. ALL SURFACE ROOFING (509) 413-2849 OR MANUFACTURER APPROVED APPLICATOR
- R.10 REMOVE & SALVAGE TO OWNER EXISTING MINI-SPLIT HVAC UNIT. BOTH INTERIOR & EXTERIOR PORTION. SEE MECHANICAL DRAWINGS. INCLUDE REMOVE OF ROOF TOP SUPPORT STRUCTURE, EXISTING PIPING, ELECTRICAL DISCONNECTS & CONDUIT. REMOVE LIMITED QUANTITY OF EXISTING BUR ROOF ASSEMBLY AND REPAIR TO MATCH EXISTING CONDITIONS INCLUDE REAPPLICATION OF FLUID APPLIED "UNIFLEX ACRYLIC ELASTOMERIC SYSTEM" BY MANUFACTURER APPROVED APPLICATOR

Project No.
2019-167G (2-1)

**SCC LAIR
REMODEL,
2019**

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**FINAL BID
DOCUMENTS**

REV	DATE	DESCRIPTION
1	01/15/20	Addendum #2

ALSC PROJ. NO. 2019-010

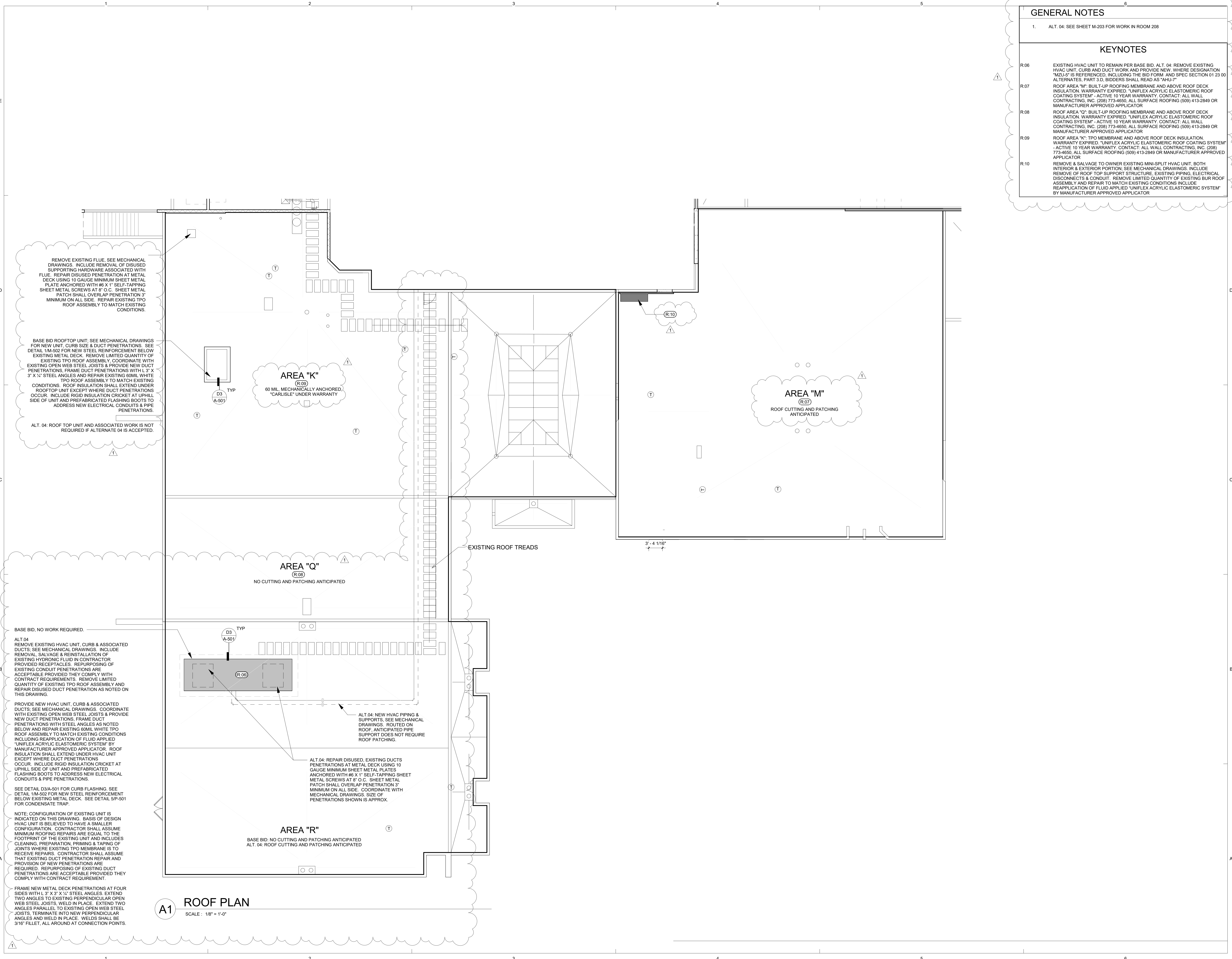
PROJECT MANAGER RLP

DATE 12-23-19

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**ROOF PLAN
(PARTIAL)**

A-103



A1 ROOF PLAN
SCALE: 1/8" = 1'-0"

REMOVE EXISTING FLUE. SEE MECHANICAL DRAWINGS. INCLUDE REMOVAL OF DISUSED SUPPORTING HARDWARE ASSOCIATED WITH FLUE. REPAIR DISUSED PENETRATION AT METAL DECK USING 10 GAUGE MINIMUM SHEET METAL PLATE ANCHORED WITH #6 X 1" SELF-TAPPING SHEET METAL SCREWS AT 8" O.C. SHEET METAL PATCH SHALL OVERLAP PENETRATION 3" MINIMUM ON ALL SIDE. REPAIR EXISTING TPO ROOF ASSEMBLY TO MATCH EXISTING CONDITIONS.

BASE BID ROOFTOP UNIT. SEE MECHANICAL DRAWINGS FOR NEW UNIT, CURB SIZE & DUCT PENETRATIONS. SEE DETAIL 1M-502 FOR NEW STEEL REINFORCEMENT BELOW EXISTING METAL DECK. REMOVE LIMITED QUANTITY OF EXISTING TPO ROOF ASSEMBLY. COORDINATE WITH EXISTING OPEN WEB STEEL JOISTS & PROVIDE NEW DUCT PENETRATIONS. FRAME DUCT PENETRATIONS WITH L 3" X 3" X 1/2" STEEL ANGLES AND REPAIR EXISTING 60MIL WHITE TPO ROOF ASSEMBLY TO MATCH EXISTING CONDITIONS. ROOF INSULATION SHALL EXTEND UNDER ROOFTOP UNIT EXCEPT WHERE DUCT PENETRATIONS OCCUR. INCLUDE RIGID INSULATION CRICKET AT UPHILL SIDE OF UNIT AND PREFABRICATED FLASHING BOOTS TO ADDRESS NEW ELECTRICAL CONDUITS & PIPE PENETRATIONS.

ALT. 04: ROOF TOP UNIT AND ASSOCIATED WORK IS NOT REQUIRED IF ALTERNATE 04 IS ACCEPTED.

BASE BID, NO WORK REQUIRED.

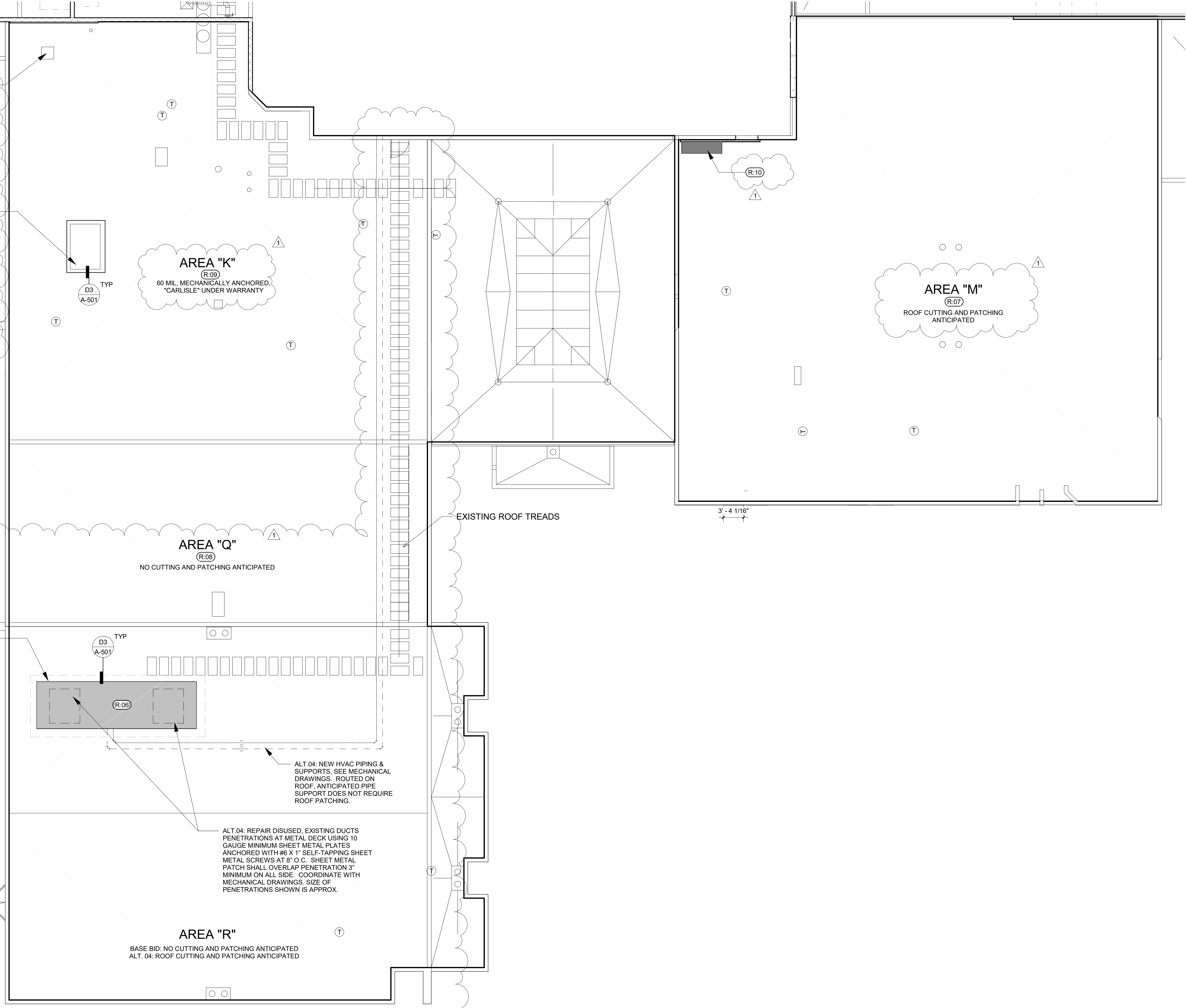
ALT. 04: REMOVE EXISTING HVAC UNIT, CURB & ASSOCIATED DUCTS. SEE MECHANICAL DRAWINGS. INCLUDE REMOVAL, SALVAGE & REINSTALLATION OF EXISTING HYDRONIC FLUID IN CONTRACTOR PROVIDED RECEPTACLES. REPURPOSING OF EXISTING CONDUIT PENETRATIONS ARE ACCEPTABLE PROVIDED THEY COMPLY WITH CONTRACT REQUIREMENTS. REMOVE LIMITED QUANTITY OF EXISTING TPO ROOF ASSEMBLY AND REPAIR DISUSED DUCT PENETRATION AS NOTED ON THIS DRAWING.

PROVIDE NEW HVAC UNIT, CURB & ASSOCIATED DUCTS. SEE MECHANICAL DRAWINGS. COORDINATE WITH EXISTING OPEN WEB STEEL JOISTS & PROVIDE NEW DUCT PENETRATIONS. FRAME DUCT PENETRATIONS WITH STEEL ANGLES AS NOTED BELOW AND REPAIR EXISTING 60MIL WHITE TPO ROOF ASSEMBLY TO MATCH EXISTING CONDITIONS INCLUDING REAPPLICATION OF FLUID APPLIED "UNIFLEX ACRYLIC ELASTOMERIC SYSTEM" BY MANUFACTURER APPROVED APPLICATOR. ROOF INSULATION SHALL EXTEND UNDER HVAC UNIT EXCEPT WHERE DUCT PENETRATIONS OCCUR. INCLUDE RIGID INSULATION CRICKET AT UPHILL SIDE OF UNIT AND PREFABRICATED FLASHING BOOTS TO ADDRESS NEW ELECTRICAL CONDUITS & PIPE PENETRATIONS.

SEE DETAIL D3A-501 FOR CURB FLASHING. SEE DETAIL 1M-502 FOR NEW STEEL REINFORCEMENT BELOW EXISTING METAL DECK. SEE DETAIL 5P-501 FOR CONDENSATE TRAP.

NOTE: CONFIGURATION OF EXISTING UNIT IS INDICATED ON THIS DRAWING. BASIS OF DESIGN HVAC UNIT IS BELIEVED TO HAVE A SMALLER CONFIGURATION. CONTRACTOR SHALL ASSUME MINIMUM ROOFING REPAIRS ARE EQUAL TO THE FOOTPRINT OF THE EXISTING UNIT AND INCLUDES CLEANING, PREPARATION, PRIMING & TAPING OF JOINTS WHERE EXISTING TPO MEMBRANE IS TO RECEIVE REPAIRS. CONTRACTOR SHALL ASSUME THAT EXISTING DUCT PENETRATION REPAIR AND PROVISION OF NEW PENETRATIONS ARE REQUIRED. REPURPOSING OF EXISTING DUCT PENETRATIONS ARE ACCEPTABLE PROVIDED THEY COMPLY WITH CONTRACT REQUIREMENT.

FRAME NEW METAL DECK PENETRATIONS AT FOUR SIDES WITH L 3" X 3" X 1/2" STEEL ANGLES. EXTEND TWO ANGLES TO EXISTING PERPENDICULAR OPEN WEB STEEL JOISTS, WELD IN PLACE. EXTEND TWO ANGLES PARALLEL TO EXISTING OPEN WEB STEEL JOISTS, TERMINATE INTO NEW PERPENDICULAR ANGLES AND WELD IN PLACE. WELDS SHALL BE 3/16" FILLET, ALL AROUND AT CONNECTION POINTS.



A1 ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF STUD AT PARTITIONS, GRID LINES, FACE OF CMU, AND CENTERLINE OF COLUMNS UNO
2. CLR DIMENSIONS INDICATE CLEAR DIMENSIONS FROM FACE OF WALL FINISH
3. WALL TYPES DEFINE THE ENTIRE LENGTH OF A WALL ON THE WALL SIDE NOTED FROM CORNER TO CORNER UNO. SEE SHEET A-501 FOR WALL TYPES LEGEND.
4. ALL WALLS NOT DESIGNATED WITH A WALL TYPE OR NOTED OTHERWISE SHALL BE A6s. 1
5. MASONRY DIMENSIONS ARE NOMINAL, VERIFY ACTUAL DIMENSIONS
6. SEE DOOR SCHEDULE FOR DOOR AND RELITE FRAME TYPES AND DETAIL REFERENCES
7. SEE ENLARGED PLANS FOR ADDITIONAL NOTES, INTERIOR ELEVATION CALLOUTS AND OTHER DETAILS WITHIN THE CALLOUT AREA.
8. SEE G-003 FOR PROJECT PHASING PLAN

KEYNOTES

- F:01 HATCHED REGION SHOWS APPROX. EXTENT OF CEMENT UNDERLAYMENT FLOOR PREP - UNDERLAYMENT NEEDED WHERE FLOOR TILE DEMO'D OR SURFACE PREP NEEDED TO LEVEL SURFACE
- F:06 ALIGN WITH FINISH FACE OF WALL
- F:12 NEW RUBBER BASE AND P-1 PAINT FINISH AT EXISTING WALLS - TERMINATE NEW FINISHES AT EXISTING MASONRY WALL
- F:13 NEW RUBBER BASE AND MDF PANEL - TERMINATE NEW FINISHES AT CORNER OF EXISTING MASONRY WALL
- F:14 NEW WALL FRAMING AT EXSITING MASONRY/CONCRETE WALL
- F:15 5/8" GYP BD. ON FURRING STRIPS AT INTERIOR FACE OF WEST WALL IN LEADERSHIP 102D; SEE INTERIOR ELEVATION FOR FINISH
- F:17 5/8" GYP BD. INFILL AT EXISTING FRAMED OPENING. TAPE AND FINISH TO RECIEVE WALL FINISH
- E:18 RELOCATED EQUIPMENT/STORAGE FROM EXISTING FOOD BANK



PROJECT
SCC LAIR REMODEL, 2019
2019-010

ADDENDUM # 2

DATE
01-15-20

DRAWN
RLP

DWG. NO.

JOB NO.
2019-010

REF. SHT.
A-110

DESCRIPTION
GENERAL NOTE 3 REVISED

- ### GENERAL NOTES
- ACOUSTICAL CEILINGS ARE AT 9'-0" AFF UNO
 - ALL HEIGHTS LISTED ARE AFF UNO
 - PAINT ALL VISIBLE CEILING ELEMENTS INCLUDING BUT NOT LIMITED TO HVAC DUCTS, CONDUIT, PIPES AND STRUCTURAL ELEMENTS UNO
 - ALL HARD LIDS CEILINGS IN SCOPE OF WORK TO BE PAINTED P-2 UNO
 - ALL GYP BD WALLS & SOFFITS EXPOSED TO VIEW &/OR ADJACENT TO CEILING CLOUDS SHALL BE PAINTED TO UNDERSIDE OF STRUCTURE. MATCH COLOR OF GYP BD HORIZ SURFACE TO VERT SURFACE
 - EXISTING CEILING HEIGHTS NOTED ARE APPROXIMATE FOR REFERENCE ONLY AND CEILING TO REMAIN AT EXISTING HEIGHT
 - CEILING TAGS SHOWN OUTSIDE OF SCOPE OF WORK FOR REFERENCE ONLY
 - SEE G-003 FOR PROJECT PHASING PLAN

CEILING TYPE LEGEND

	GYP. BOARD CEILING		FILM-2
	NEW ACOUSTICAL PANEL CEILING SYSTEM		OPEN TO STRUCTURE; SEE RCP FOR PAINT FINISH
	EXISTING CEILING GRID AND SUSP. ACOUSTICAL PANEL CEILING		
	WOOD LINEAR CEILING (WLC-1); ALT. 02 - SEE A-900		

LIGHT FIXTURES (SEE ELEC DWGS FOR MOUNTING/TYPE)

EMS LIGHT

- ### KEYNOTES
- C.01 PAINT EXPOSED STRUCTURE, MECHANICAL, ELECTRICAL, PIPING, ETC. EXPOSED TO VIEW P-5
 - C.04 NEW ACOUSTICAL CEILING TILE AND CEILING GRID (APC-1)
 - C.05 PORTION OF HEADER THAT IS NEW TO MATCH EXISTING HEADER IN HEIGHT, WIDTH - PAINT P-2 ALL EXPOSED FACES
 - C.06 CLG TRIM (SEE FINISH LEGEND) BETWEEN APC CEILING AND GYP BD. HEADER
 - C.07 NEW CLG GRID TO RUN PARALLEL WITH EXISTING CEILING GRID AT OPEN AREA
 - C.08 PRE-MANUFACTURED COVE LIGHT TRIM PIECE AT PERIMETER OF MEDITATION ROOM 126. SEE FINISH LEGEND "COVE LIGHT" AND ELECTRICAL DWGS
 - C.09 NEW HEADERS/SOFFIT TO ALIGN WITH EDGE OF FULL CEILING TILE
 - C.11 CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION IF PORTION OF EXISTING TO REMAIN SUSP. CEILING WILL NEED TO BE REMOVED AND REPLACED TO ALLOW FOR INSTALL OF MECHANICAL AND ELECTRICAL WORK AT THESE ROOMS
 - C.12 SEAM FOR FILM-2 CEILING FINISH, TYP
 - C.13 NEW PARTITION EXTENDING THROUGH EXISTING CEILING WILL REQUIRE REMOVAL OF SUSP. CEILING
 - C.14 SEE ALT. 03 IN SPECIFICATIONS FOR WINDOW COVERINGS AT EXTERIOR WINDOWS WITHIN SCOPE OF WORK
 - C.15 CUT OPENING AT CEILING FOR SLOT DIFFUSER. SEE MECHANICAL DWGS FOR SIZE/LOCATION, DIFFUSER FLANGE TO TRIM EDGE OF OPENING

Project No.
2019-167G (2-1)
**SCC LAIR
REMODEL,
2019**

**SPOKANE
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COLLEGE**

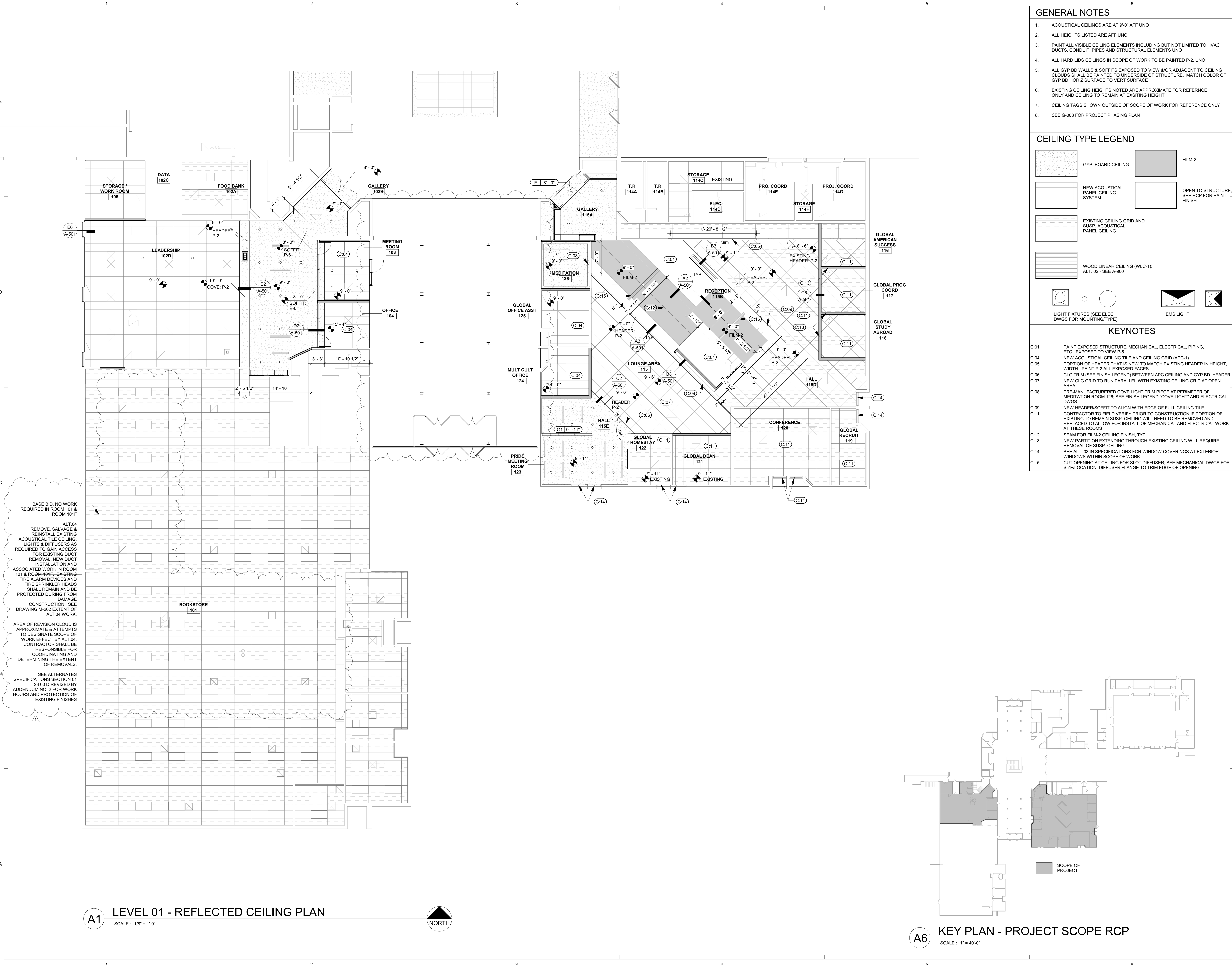
**FINAL BID
DOCUMENTS**

REV	DATE	DESCRIPTION
1	01/15/20	Addendum #2

ALSC PROJ. NO. 2019-010
PROJECT MANAGER RLP
DATE 12-23-19
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**LEVEL 01
(PARTIAL) -
REFLECTED
CEILING
PLAN**

A-120



BASE BID, NO WORK REQUIRED IN ROOM 101 & ROOM 101F

ALT. 04 REMOVE SALVAGE & REINSTALL EXISTING ACOUSTICAL TILE CEILING, LIGHTS & DIFFUSERS AS REQUIRED TO GAIN ACCESS FOR EXISTING DUCT REMOVAL. NEW DUCT INSTALLATION AND ASSOCIATED WORK IN ROOM 101 & ROOM 101F. EXISTING FIRE ALARM DEVICES AND FIRE SPRINKLER HEADS SHALL REMAIN AND BE PROTECTED DURING FROM DAMAGE CONSTRUCTION. SEE DRAWING M-202 EXTENT OF ALT. 04 WORK.

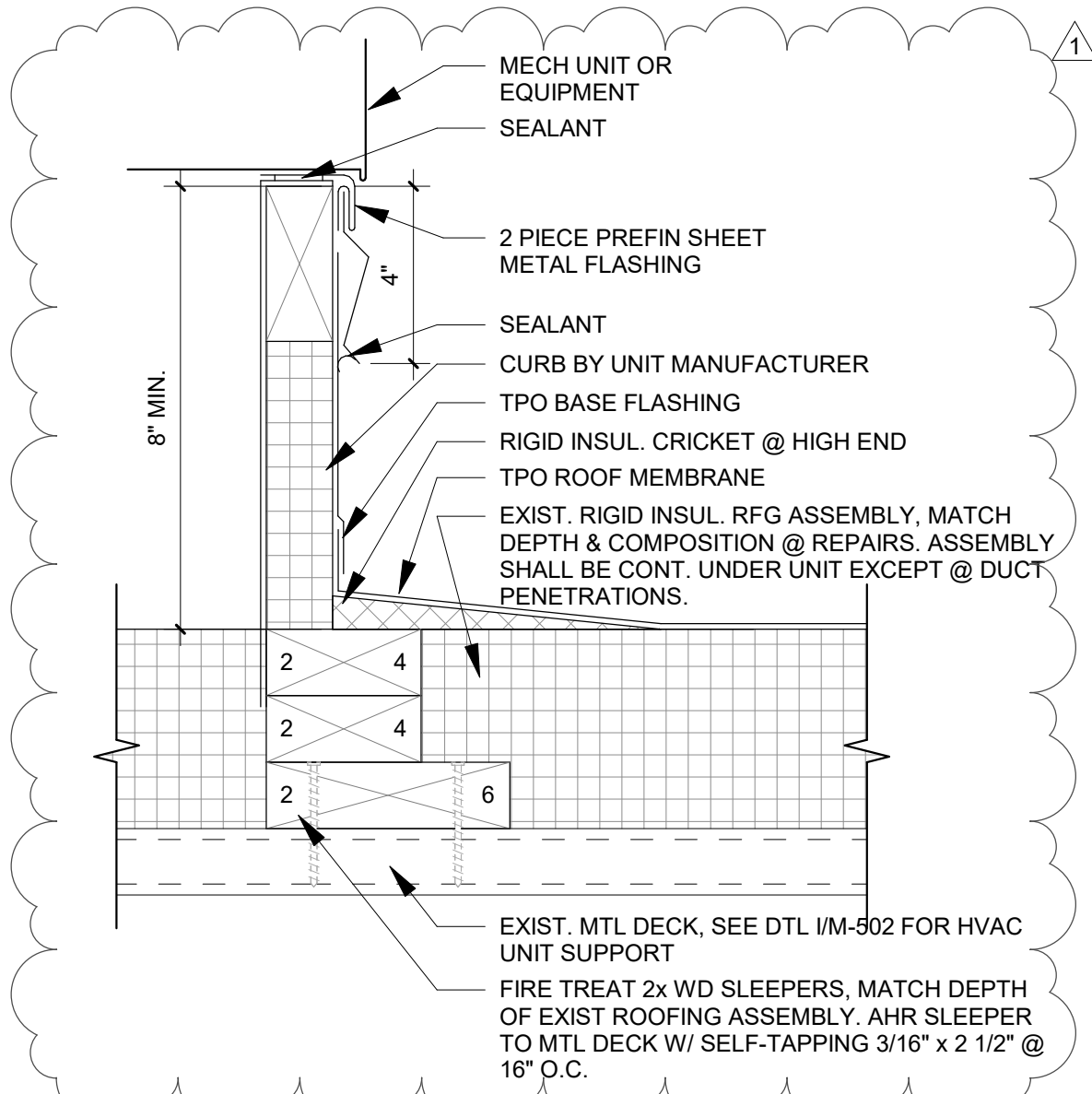
AREA OF REVISION CLOUD IS APPROXIMATE & ATTEMPTS TO DESIGNATE SCOPE OF WORK EFFECT BY ALT. 04. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND DETERMINING THE EXTENT OF REMOVALS.

SEE ALTERNATES SPECIFICATIONS SECTION 01 23 01.0 REVISED BY ADDENDUM NO. 2 FOR WORK HOURS AND PROTECTION OF EXISTING FINISHES

A1 LEVEL 01 - REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"
NORTH

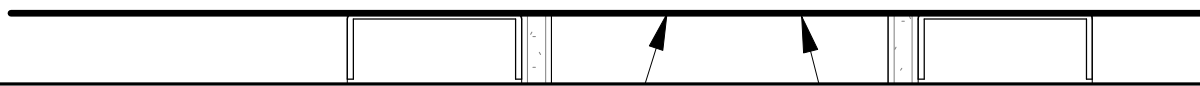
A6 KEY PLAN - PROJECT SCOPE RCP
SCALE: 1" = 40'-0"

DN



D3 **EQUIPMENT CURB FLASHING**

SCALE : 3" = 1'-0"



	PROJECT SCC LAIR REMODEL, 2019 2019-010		ADDENDUM # 2		
	DATE 01-15-20	DRAWN RLP	DWG. NO.	JOB NO. 2019-010	REF. SHT. A-501
	DESCRIPTION DETAIL D3/A-501 REVISED				

C6

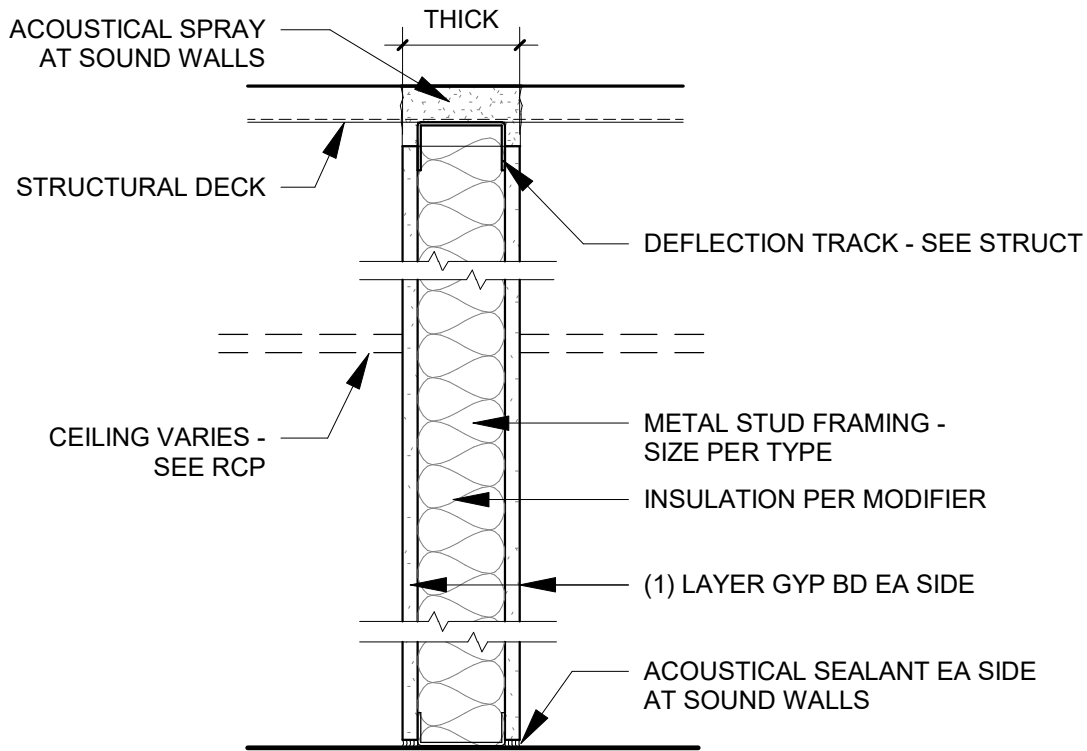
Section 8

1

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

TYPE	THICK	MODIFIER
A	A4 3 5/8" MTL STUD	4 7/8"
	A6 6" MTL STUD	7 1/4"
	A8 8" MTL STUD	9 1/4"
		s SOUND ATTEN INSUL (STC ??) t THERMAL INSULATION p LEAD LINING x SMOKE PARTITION

1-HR RATING WHERE INDICATED, IN ACCORDANCE WITH UL FILE # ____



TYPE	THICK	MODIFIER
F	F4 3 5/8" MTL STUD	4 7/8"
	F6 6" MTL STUD	7 1/4"
	F8 8" MTL STUD	9 1/4"
		s SOUND ATTEN INSUL t THERMAL INSULATION

NON-RATED

REV
1

ALSC P



PROJECT
SCC LAIR REMODEL, 2019
2019-010

ADDENDUM # 2

DATE
01-15-20

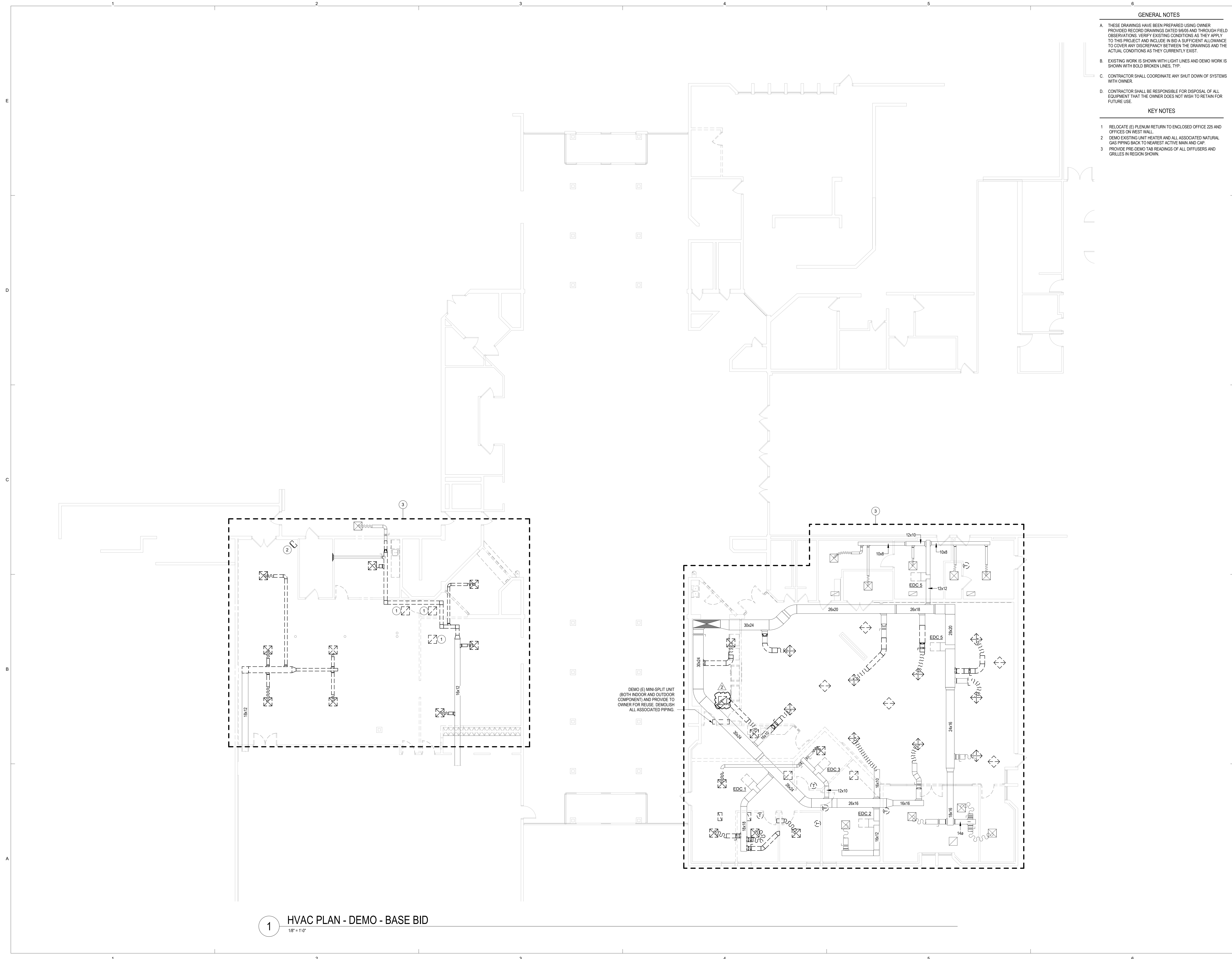
DRAWN
RLP

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JOB NO.
2019-010

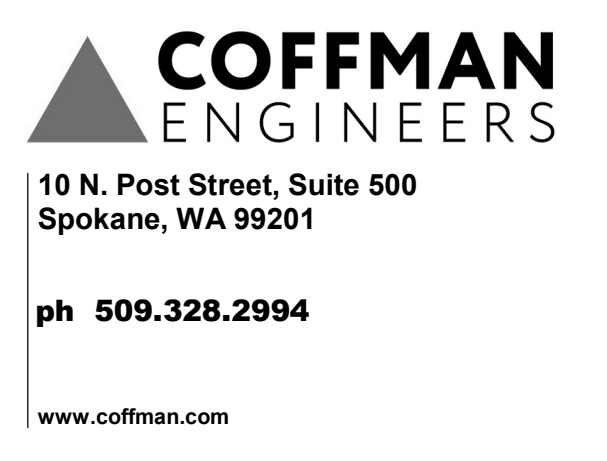
REF. SHT.
A-501

DESCRIPTION
DETAIL D3/A-501 REVISED



- GENERAL NOTES**
- THESE DRAWINGS HAVE BEEN PREPARED USING OWNER PROVIDED RECORD DRAWINGS DATED 8/18/15 AND THROUGH FIELD OBSERVATIONS. VERIFY EXISTING CONDITIONS AS THEY APPLY TO THIS PROJECT AND INCLUDE IN BID A SUFFICIENT ALLOWANCE TO COVER ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS AS THEY CURRENTLY EXIST.
 - EXISTING WORK IS SHOWN WITH LIGHT LINES AND DEMO WORK IS SHOWN WITH BOLD BROKEN LINES, TYP.
 - CONTRACTOR SHALL COORDINATE ANY SHUT DOWN OF SYSTEMS WITH OWNER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO RETAIN FOR FUTURE USE.
- KEY NOTES**
- RELOCATE (E) PLENUM RETURN TO ENCLOSED OFFICE 225 AND OFFICES ON WEST WALL.
 - DEMO EXISTING UNIT HEATER AND ALL ASSOCIATED NATURAL GAS PIPING BACK TO NEAREST ACTIVE MAIN AND CAP.
 - PROVIDE PRE-DEMO TAB READINGS OF ALL DIFFUSERS AND GRILLES IN REGION SHOWN.

1 HVAC PLAN - DEMO - BASE BID
1/8" = 1'-0"



LAIR REMODEL (BLDG 6)

COMMUNITY COLLEGES OF SPOKANE

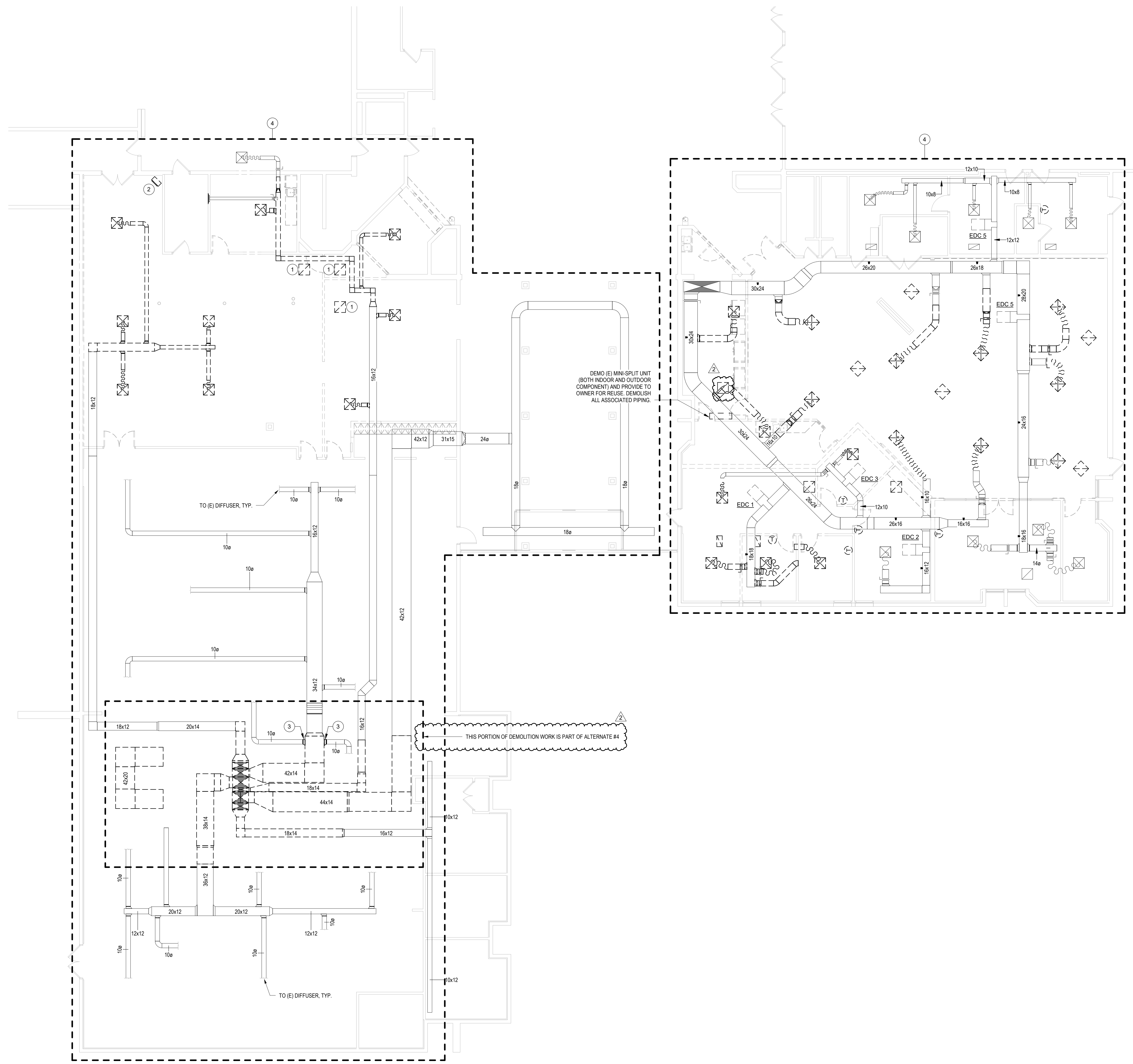
FINAL BID DOCUMENTS

REV	DATE	DESCRIPTION
2	1/15/2020	ADD-2

PROJ. NO. 2019-010
PROJECT MANAGER APKG
DATE 12/17/19
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HVAC DEMO PLAN - BASE BID

M-101



1 HVAC PLAN - DEMO - ALTERNATE BID 4
1/8" = 1'-0"

- GENERAL NOTES**
- A. THESE DRAWINGS HAVE BEEN PREPARED USING OWNER PROVIDED RECORD DRAWINGS DATED 8/16/15 AND THROUGH FIELD OBSERVATIONS. VERIFY EXISTING CONDITIONS AS THEY APPLY TO THIS PROJECT AND INCLUDE IN BID A SUFFICIENT ALLOWANCE TO COVER ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS AS THEY CURRENTLY EXIST.
 - B. EXISTING WORK IS SHOWN WITH LIGHT LINES AND DEMO WORK IS SHOWN WITH BOLD BROKEN LINES, TYP.
 - C. CONTRACTOR SHALL COORDINATE ANY SHUT DOWN OF SYSTEMS WITH OWNER.
 - D. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL EQUIPMENT THAT THE OWNER DOES NOT WISH TO RETAIN FOR FUTURE USE.
- KEY NOTES**
- 1. RELOCATE (E) PLENUM RETURN TO ENCLOSED OFFICE 225 AND OFFICES ON WEST WALL.
 - 2. DEMO EXISTING UNIT HEATER AND ALL ASSOCIATED NATURAL GAS PIPING BACK TO NEAREST ACTIVE MAIN AND CAP.
 - 3. CONTRACTOR TO MODIFY (E) DUCTWORK AS REQUIRED TO ACCOMMODATE NEW DUCT LAYOUT AS SHOWN ON M-202.
 - 4. RECONNECT (E) BRANCH DUCTWORK TO NEW SUPPLY MAIN. PROVIDE PRE-DEMO TAB READING OF ALL DIFFUSERS AND GRILLES IN REGION SHOWN. DUCT TRAVERSE IS ACCEPTABLE IN (E) BOOKSTORE AREA WHERE GRILLES AND DIFFUSERS ARE NOT BEING DEMOLISHED.

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LAIR REMODEL (BLDG 6)

COMMUNITY COLLEGES OF SPOKANE

FINAL BID DOCUMENTS

REV	DATE	DESCRIPTION
2	1/15/2020	ADD-2

PROJ. NO. 2019-010
PROJECT MANAGER APKG
DATE 12/17/19
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HVAC DEMO PLAN - ALTERNATE BID

M-102

GENERAL HVAC NOTES

- A. EXISTING WORK IS SHOWN WITH LIGHT LINES AND NEW WORK IS SHOWN WITH BOLD CONTINUOUS LINES, TYP.
- B. VERIFY THERMOSTAT PLACEMENT WITH OWNER PRIOR TO ROUGH-IN. COORDINATE PLACEMENT WITH ELECTRICAL CONTRACTOR AND LIGHT SWITCH LOCATIONS. THERMOSTAT SHALL BE AT SAME ELEVATION AS LIGHT SWITCHES (BETWEEN 3'-0" AFF).
- C. MAINTAIN ACCESS TO ALL DAMPERS FOR MAINTENANCE PURPOSES. PROVIDE ACCESS PANELS WHERE NECESSARY.
- D. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKEOFFS IN ADDITION TO THOSE SHOWN. PROVIDE REMOTE DAMPER OPERATORS IN HAND LID CEILINGS WHERE DAMPERS ARE NOT ACCESSIBLE.
- E. MAINTAIN 3'-0" MIN. CLEARANCE ON CONTROLS SIDE OF TERMINAL UNITS.
- F. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF HWSHWIR PIPING.
- G. ROUTE ALL NEW DUCTWORK TO AVOID (E) FIRE SPRINKLER MAINS AND HEADS.
- H. RELOCATE (E) FIRE SPRINKLER HEADS AS REQUIRED TO MEET COMPLIANCE IN NEW SPACE LAYOUT.
- I. CONFIRM AIR AND WATER FLOW ARE RETURNED TO PRE-DEMO VALUES.

KEY NOTES

- 1 LINE WITH 1" FIBERGLASS SOUND LINING.



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LAIR REMODEL
(BLDG 6)

COMMUNITY
COLLEGES
OF SPOKANE

FINAL BID
DOCUMENTS

REV	DATE	DESCRIPTION
1	1/9/2020	ADD-1
2	1/15/2020	ADD-2

PROJ. NO. 2019-010

PROJECT MANAGER APKG

DATE 12/17/19

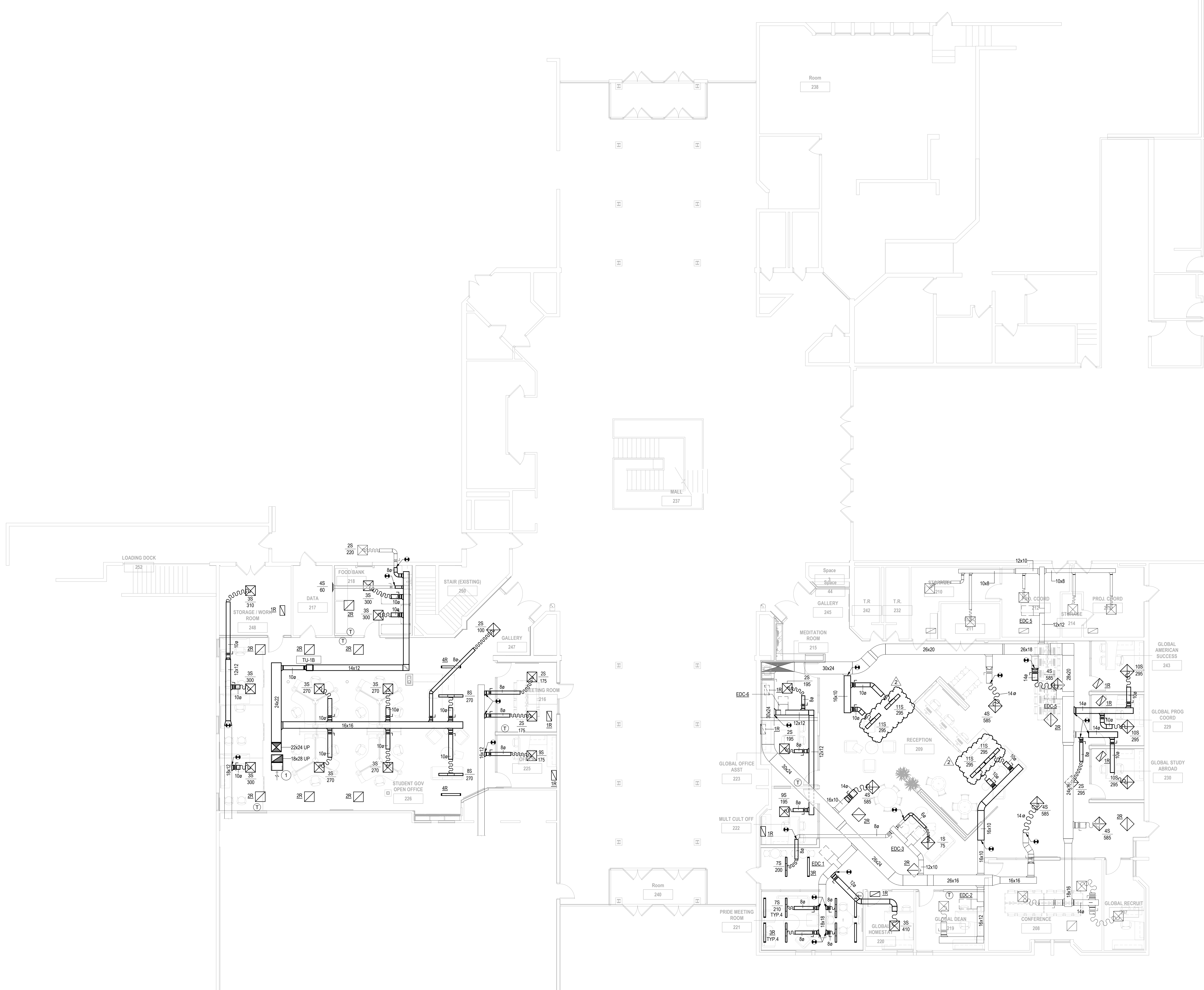
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HVAC PLAN -
BASE BID

M-201

1 HVAC PLAN - BASE BID

1/8" = 1'-0"

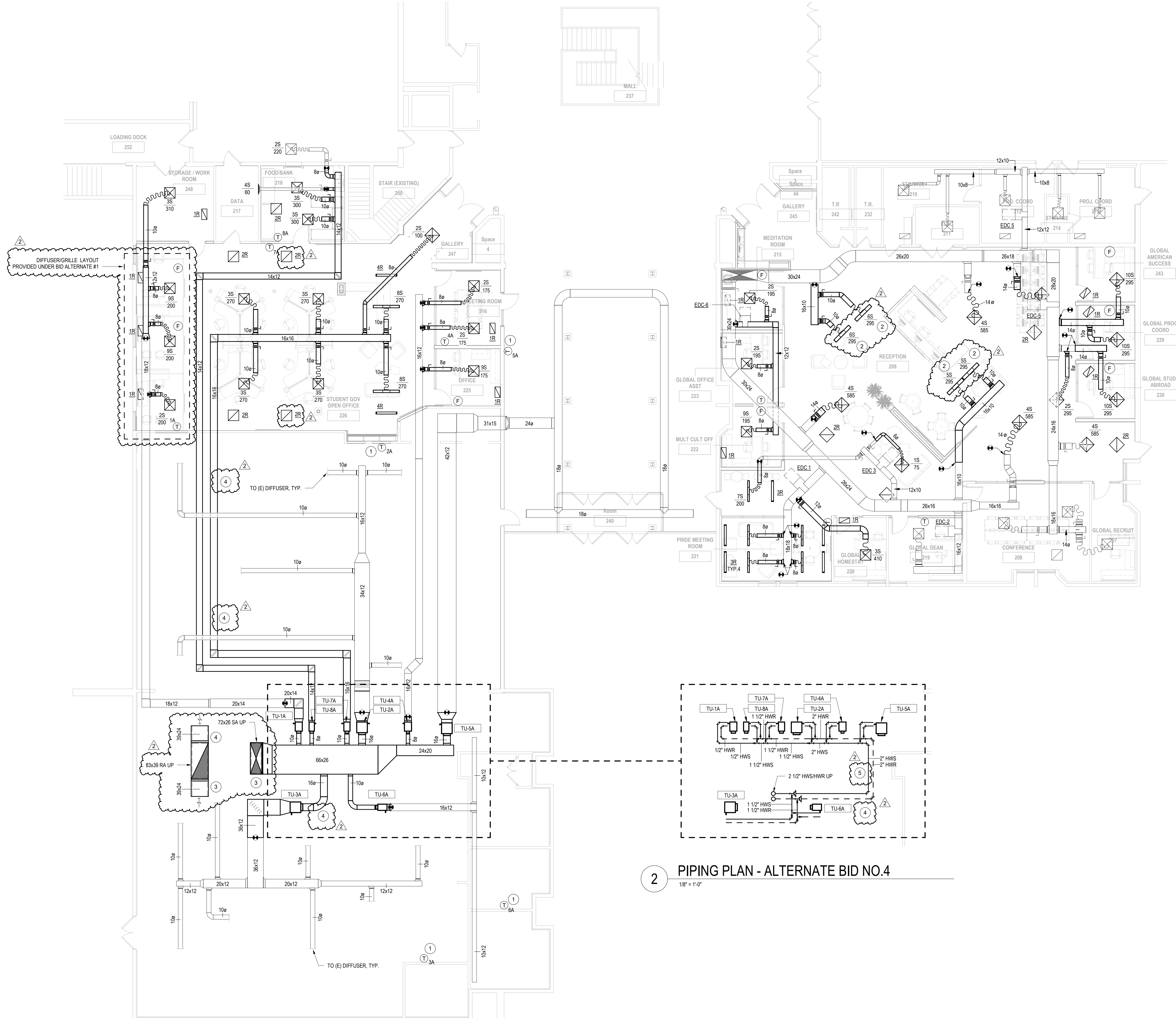


GENERAL HVAC NOTES

- A. EXISTING WORK IS SHOWN WITH LIGHT LINES AND NEW WORK IS SHOWN WITH BOLD CONTINUOUS LINES, TYP.
- B. VERIFY THERMOSTAT PLACEMENT WITH OWNER PRIOR TO ROUGH-IN. COORDINATE PLACEMENT WITH ELECTRICAL CONTRACTOR AND LIGHT SWITCH LOCATIONS. THERMOSTAT SHALL BE AT SAME ELEVATION AS LIGHT SWITCHES (BETWEEN 3'-0" AFF).
- C. MAINTAIN ACCESS TO ALL DAMPERS FOR MAINTENANCE PURPOSES. PROVIDE ACCESS PANELS WHERE NECESSARY.
- D. PROVIDE VOLUME DAMPERS ON ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKEOFFS IN ADDITION TO THOSE SHOWN. PROVIDE REMOTE DAMPER OPERATORS IN HARD LID CEILINGS WHERE DAMPERS ARE NOT ACCESSIBLE.
- E. MAINTAIN 3'-0" MIN. CLEARANCE ON CONTROL SIDE OF TERMINAL UNITS.
- F. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF HW/SHWR PIPING.
- G. ROUTE ALL NEW DUCTWORK TO AVOID (E) FIRE SPRINKLER MAINS AND HEADS.
- H. RELOCATE (E) FIRE SPRINKLER HEADS AS REQUIRED TO MEET COMPLIANCE IN NEW SPACE LAYOUT.
- I. CONFIRM AIR AND WATER FLOW ARE RETURNED TO PRE-DEMO VALUES.

KEY NOTES

- 1. CONFIRM PREFERRED THERMOSTAT LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 2. SS AND 6S TO BE MOUNTED IN WOOD SLOT CEILING IN BETWEEN BRUNNERS.
- 3. REMOVE AND SAVE (E) DIFFUSERS AND GRILLES AS REQUIRED TO INSTALL NEW DUCTWORK AND TERMINAL UNITS IN BOOKSTORE. REINSTALL (E) DIFFUSERS AND GRILLES IN ORIGINAL LOCATIONS AFTER WORK IS COMPLETED.
- 4. HYDRONIC FLUID TO BE DRAINED DOWN AS REQUIRED FOR CONSTRUCTION, SAVED, AND STORED IN CONTRACTOR PROVIDED RECEPTACLES. UPON COMPLETION OF PROJECT CONTRACTOR TO REFILL SYSTEM USING STORED FLUID. CONTRACTOR TO VERIFY LEVEL OF GLYCOL IN SYSTEM AND ADJUST FLUID LEVELS AS NEEDED TO REACH 95%.



1 HVAC PLAN - ALTERNATE BID NO. 4
1/8" = 1'-0"

2 PIPING PLAN - ALTERNATE BID NO. 4
1/8" = 1'-0"



LAIR REMODEL (BLDG 6)

COMMUNITY COLLEGES OF SPOKANE

FINAL BID DOCUMENTS

REV	DATE	DESCRIPTION
2	1/15/2020	ADD-2

PROJ. NO.	2019-010
PROJECT MANAGER	APKG
DATE	12/17/19
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HVAC PLAN - ALTERNATE BID

M-202



REV	DATE	DESCRIPTION
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PROJ. NO. 2019-010

PROJECT MANAGER APKG

DATE 12/17/19

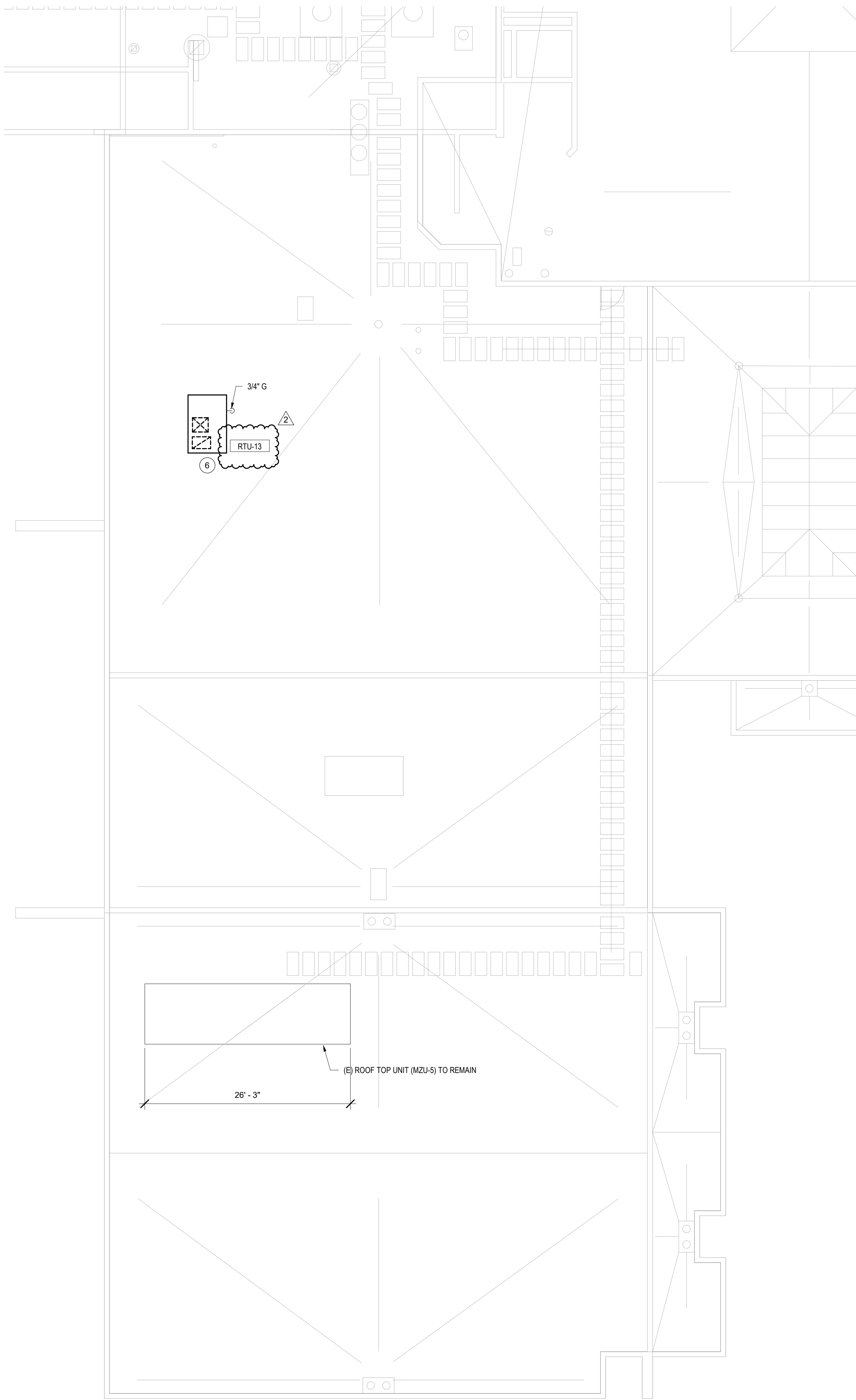
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GENERAL NOTES

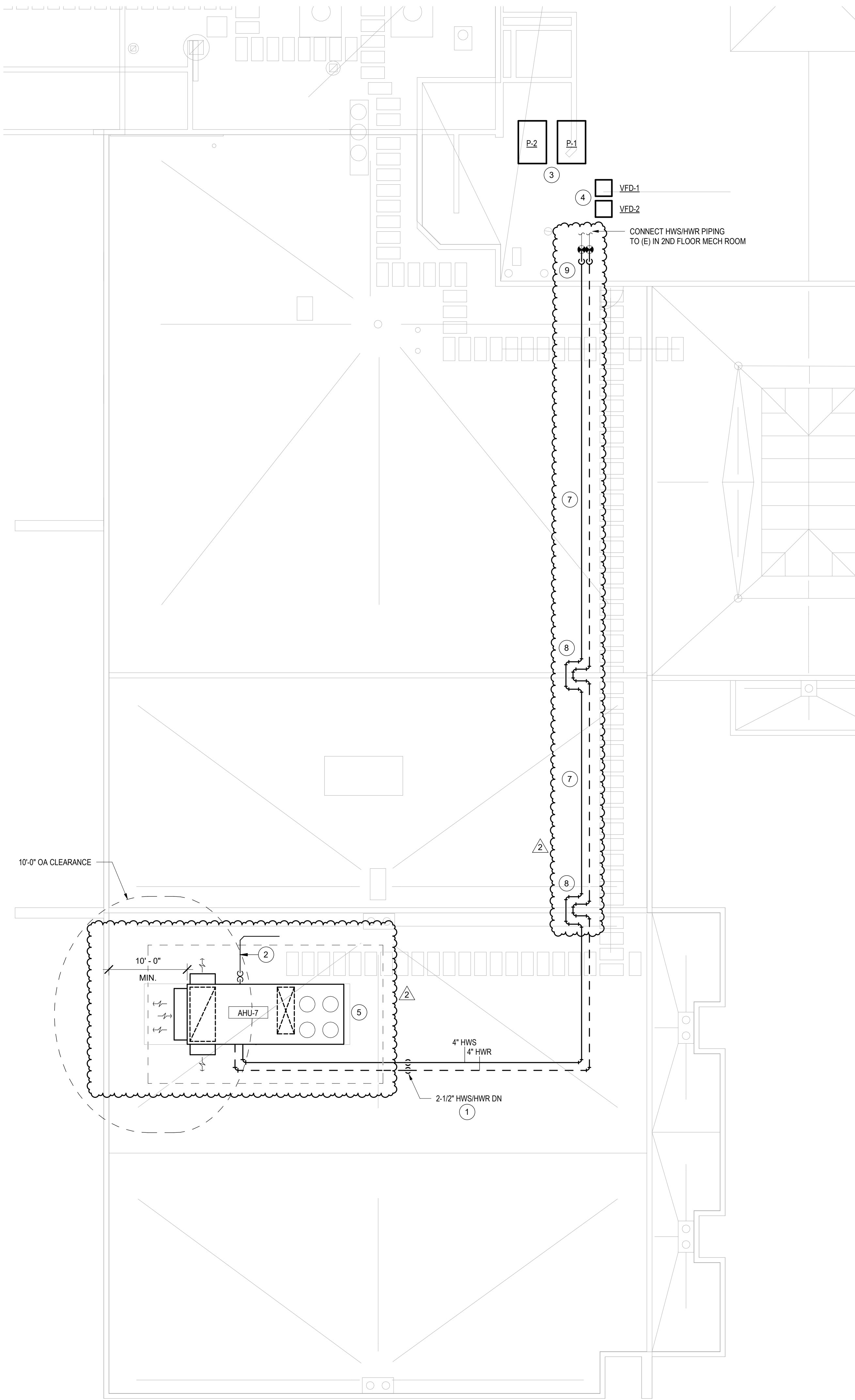
- A. LOCATE PLUMBING VENTS AND EXHAUST FANS 10'-0" MIN. FROM HVAC AIR INTAKES.
- B. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS OF HWSHWR PIPING.

KEY NOTES

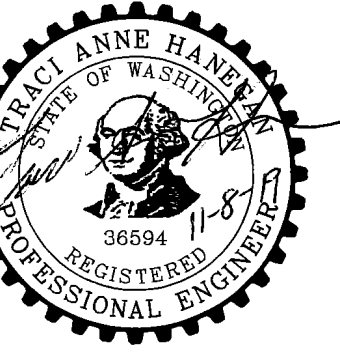
- 1 HWSHWR DOWN TO TERMINAL UNITS BELOW. PATCH ROOF PER ARCHITECTURAL AND DEMO.
- 2 ROUTE 3/4" CONDENSATE TO ROOF DRAIN. DEMO AND RE-INSTALL IN SAME LOCATION AS DEMOED PUMPS. CONTRACTOR TO VERIFY NEW PUMPS ARE DIMENSIONALLY THE SAME AS EXISTING. ALL EXISTING STRAINERS, CONNECTIONS, VALVES, ETC. SHALL BE REUSED.
- 3 VFD-1 AND VFD-2 TO BE MOUNTED ON EXISTING RACH IN MECH ROOM 207.
- 4 INFILL ROOF AS REQUIRED TO ACCOMMODATE NEW UNIT. PATCH AND SEAL ROOF PER ARCHITECTURAL.
- 5 UNIT LOCATION SHOWN IS APPROXIMATE. UNIT SHALL BE SHIFTED AS REQUIRED TO LOCATE IN BETWEEN JOISTS. UNIT SHALL BE PLACED A MINIMUM OF 10'-0" FROM BUILDING EDGE. CONTRACTOR TO COORDINATE DEMO AND INSTALLATION OF NEW UNIT CURBS AS REQUIRED.
- 6 RUN NEW HWSHWR ON ROOF DECK BETWEEN (E) ROOF JOISTS BELOW DECK TO DISTRIBUTE WEIGHT.
- 7 SEE MECHANICAL SPECIFICATION 230540 FOR EXPANSION JOINTS REQUIREMENTS.
- 8 HYDRONIC FLUID TO BE DRAINED DOWN AS REQUIRED FOR CONSTRUCTION, SAVED, AND STORED IN CONTRACTOR PROVIDED RECEPTACLES. UPON COMPLETION OF PROJECT CONTRACTOR TO REFILL SYSTEM USING STORED FLUID. CONTRACTOR TO VERIFY LEVEL OF GLYCOL IN SYSTEM AND ADJUST FLUID LEVELS AS NEEDED TO REACH 30%.
- 9



1 ROOF PLAN - BASE BID
1/8" = 1'-0"



2 ROOF PLAN - ALTERNATE BID NO.4
1/8" = 1'-0"



REV	DATE	DESCRIPTION
2	1/15/2020	ADD-2

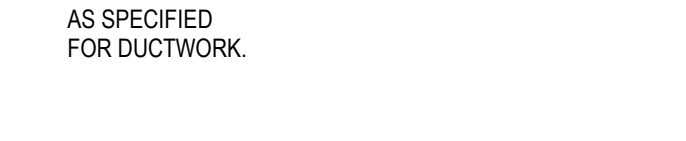
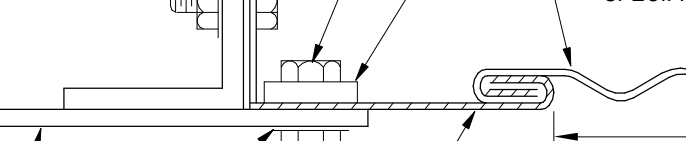
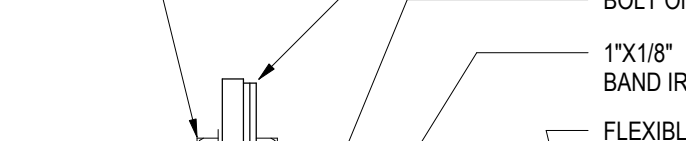
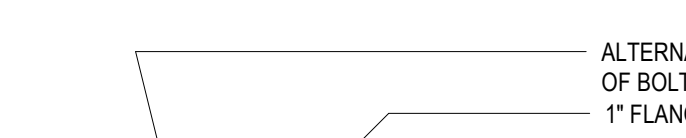
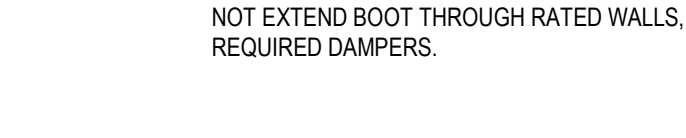
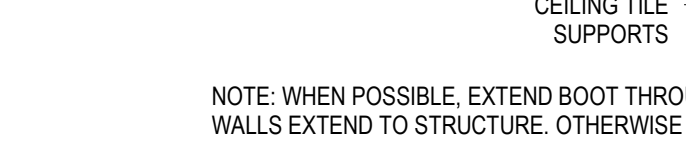
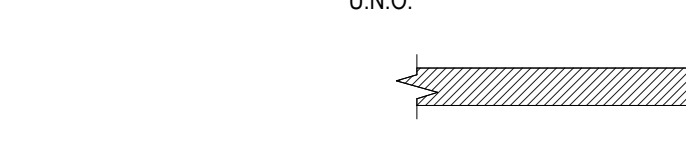
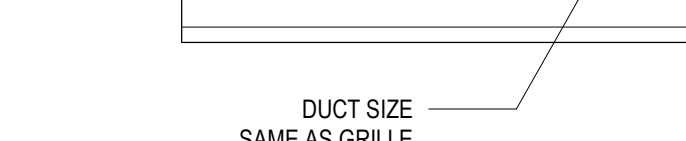
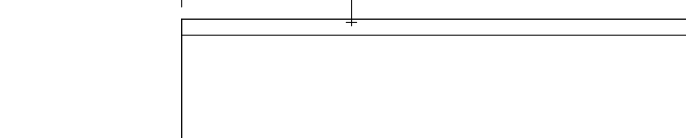
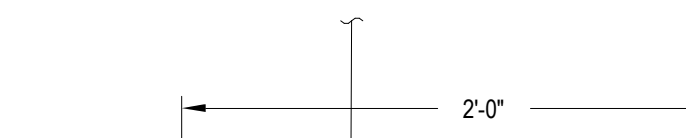
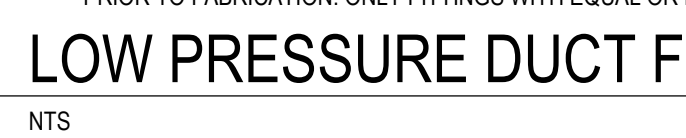
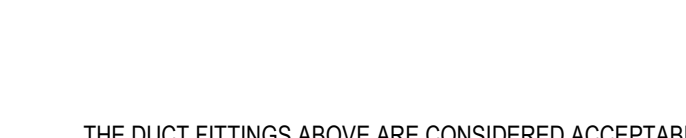
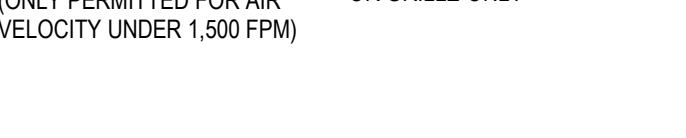
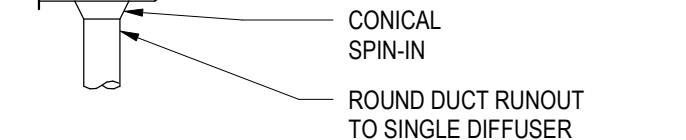
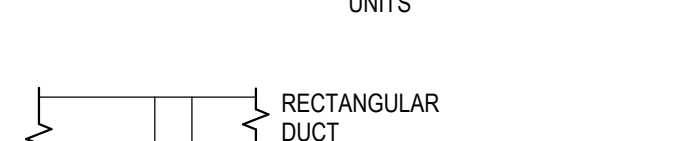
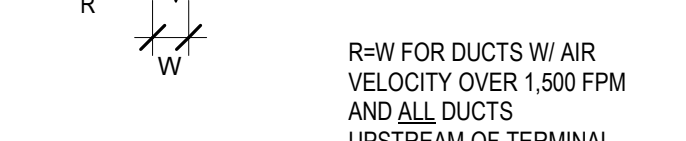
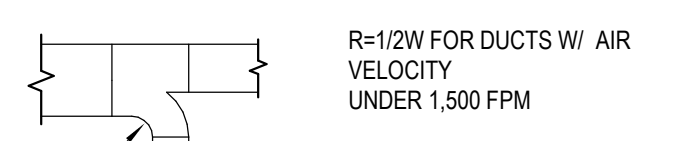
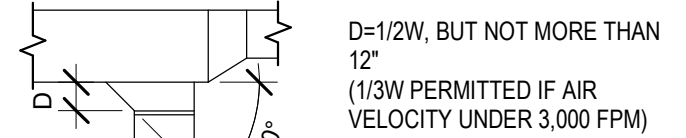
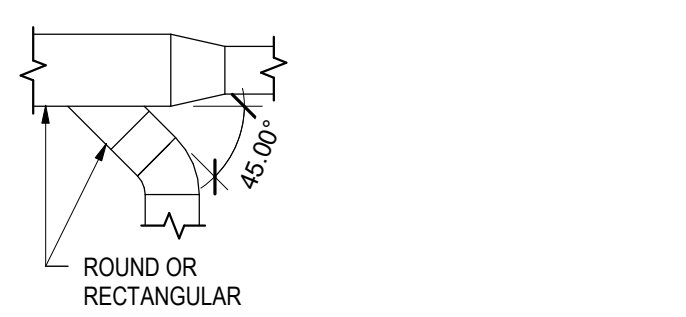
PROJ. NO. 2019-010

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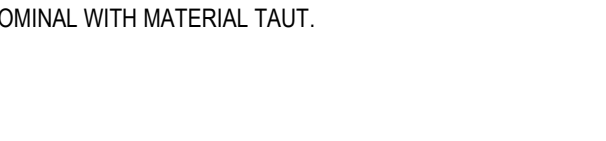
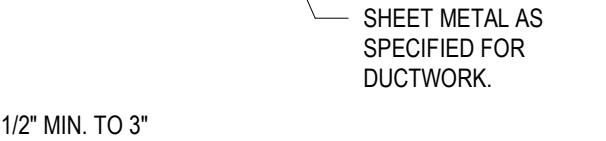
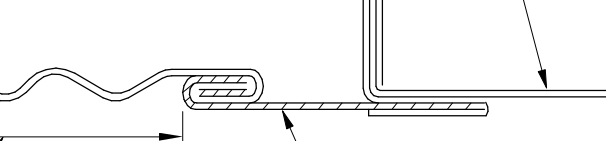
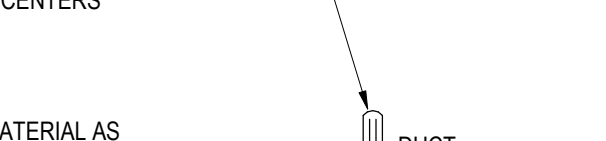
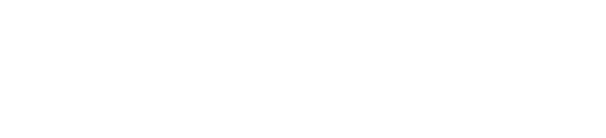
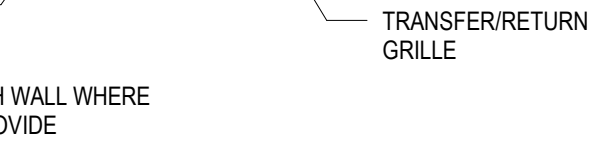
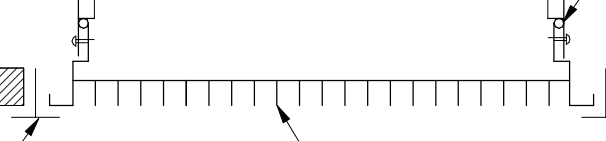
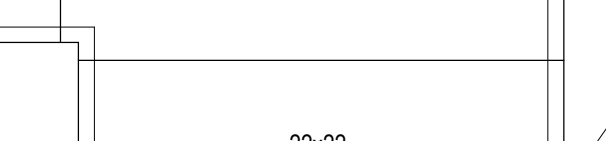
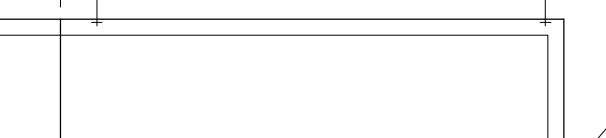
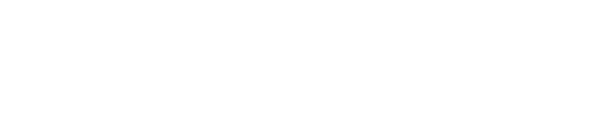
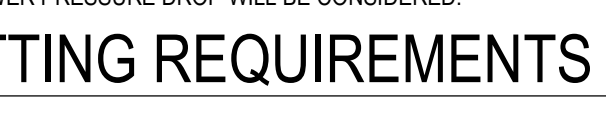
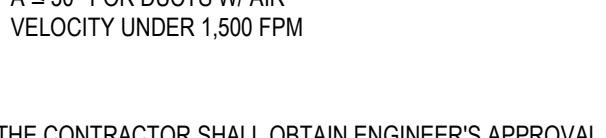
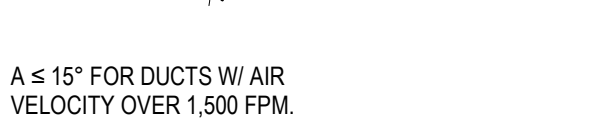
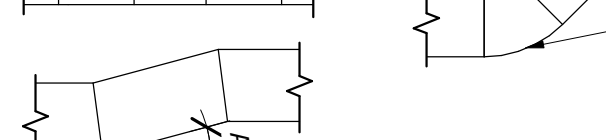
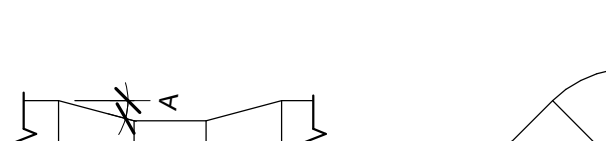
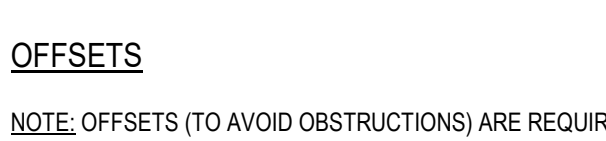
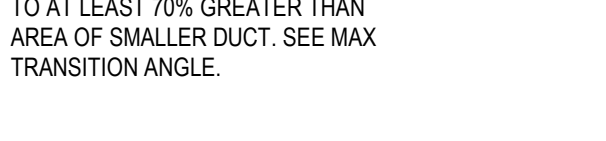
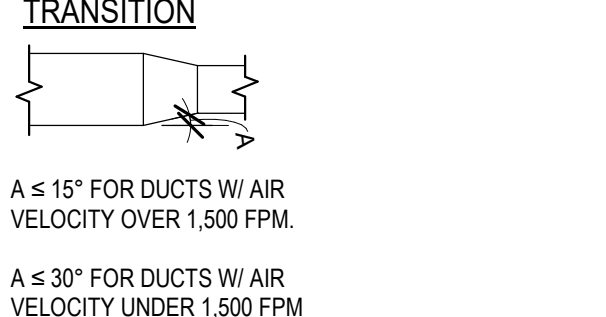
DATE 12/17/19

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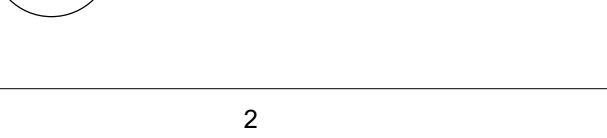
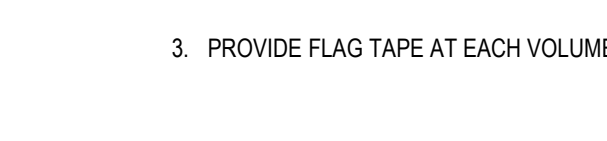
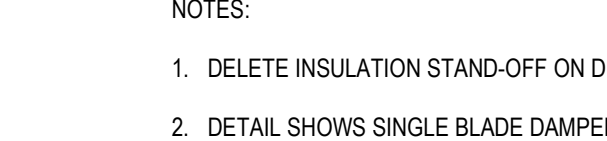
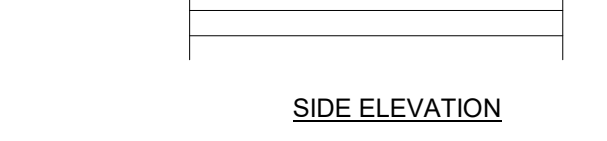
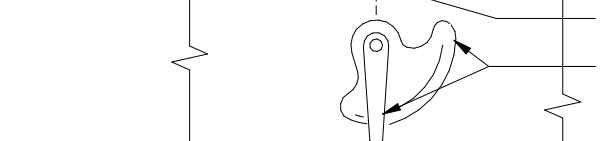
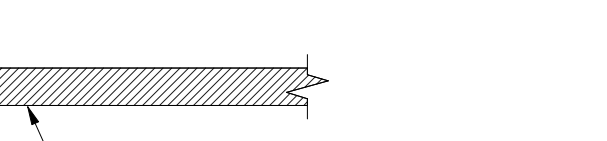
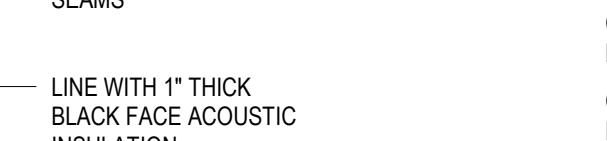
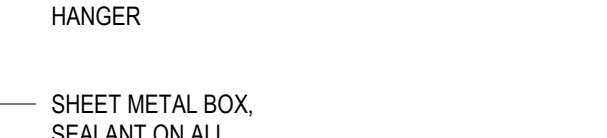
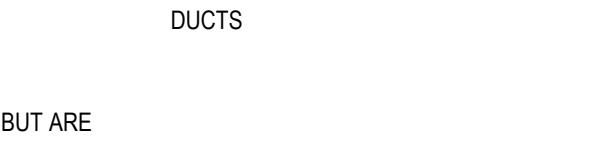
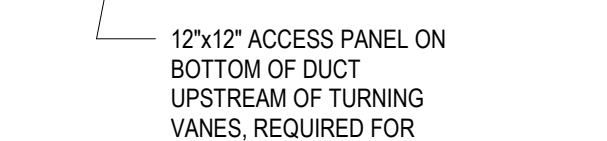
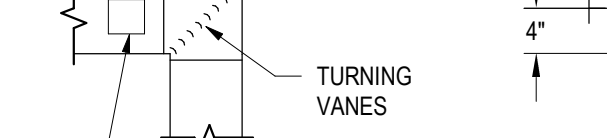
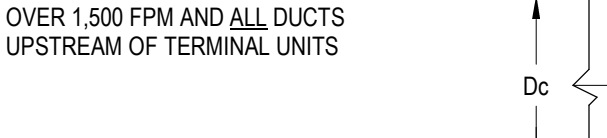
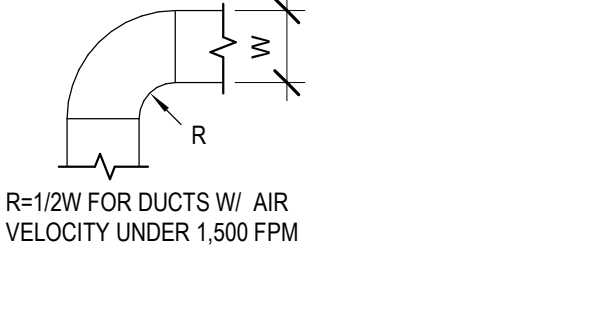
BRANCH DUCT TAKEOFFS



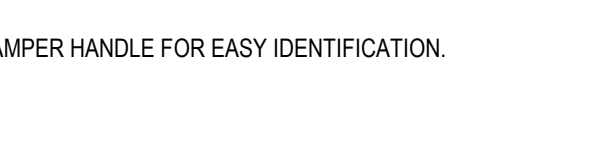
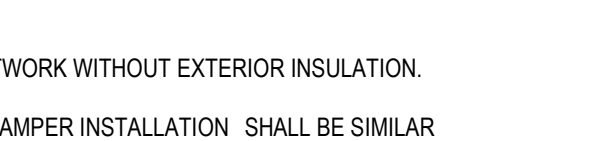
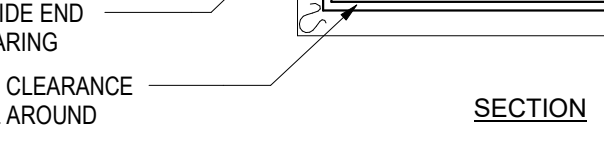
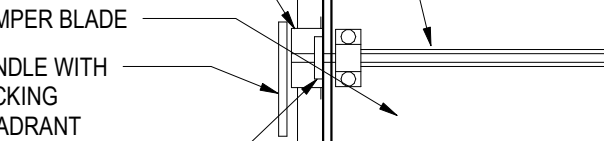
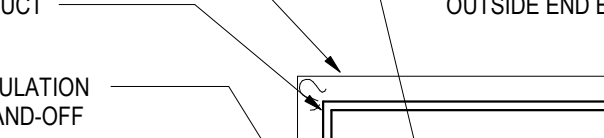
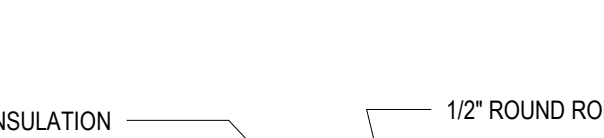
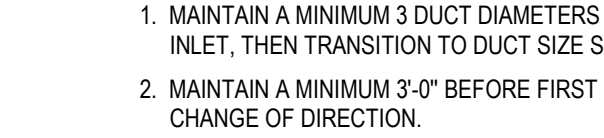
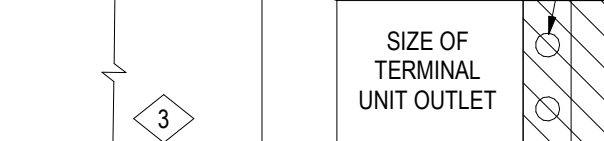
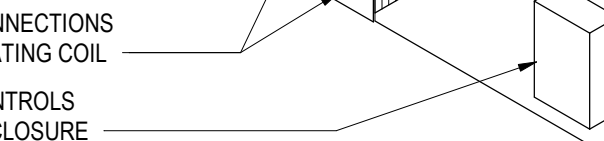
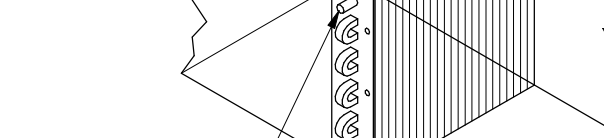
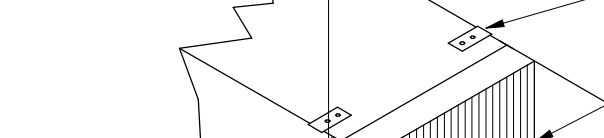
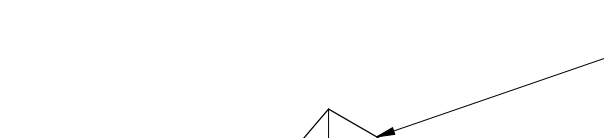
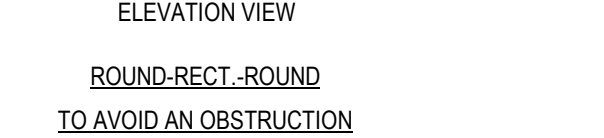
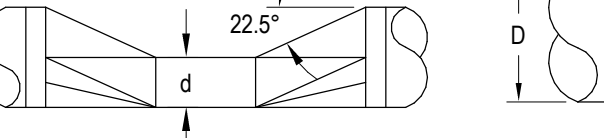
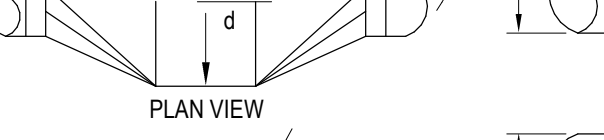
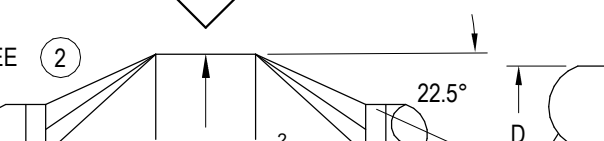
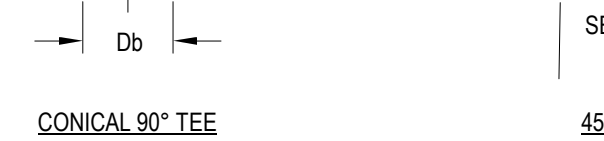
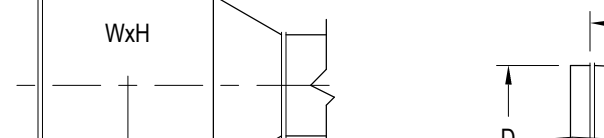
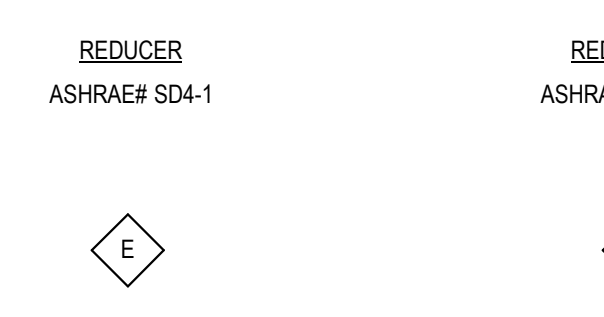
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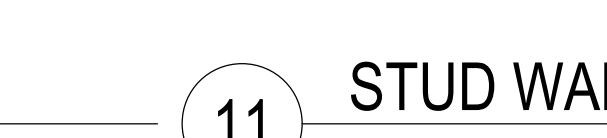
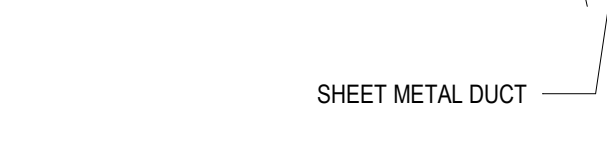
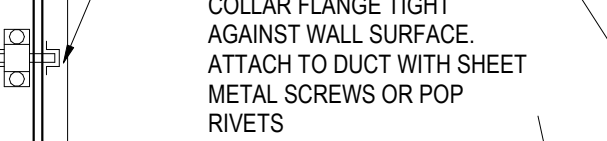
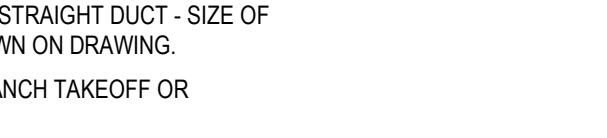
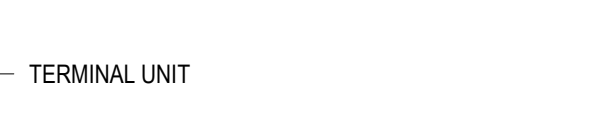
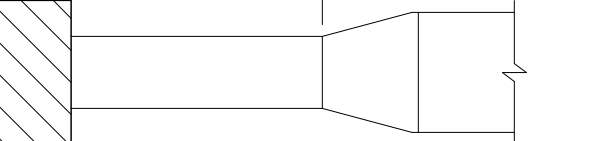
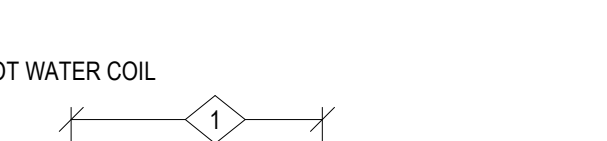
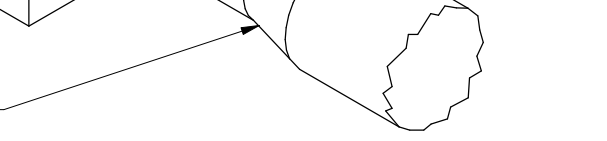
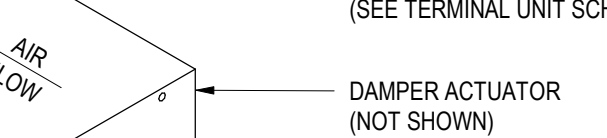
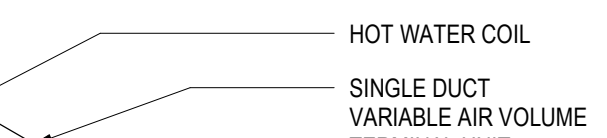
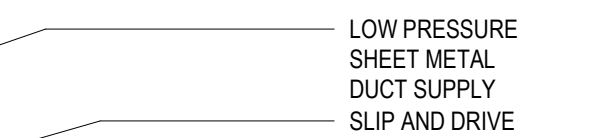
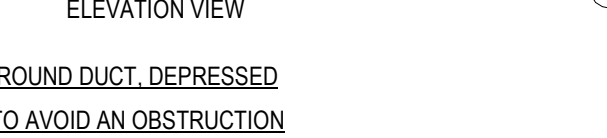
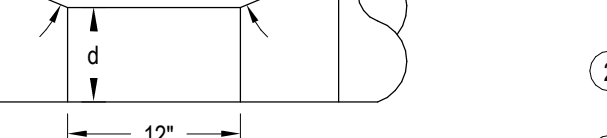
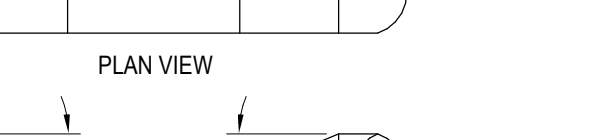
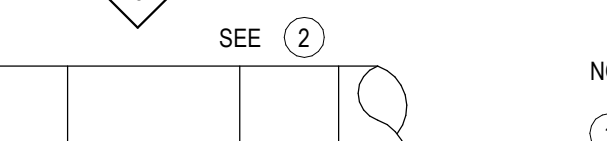
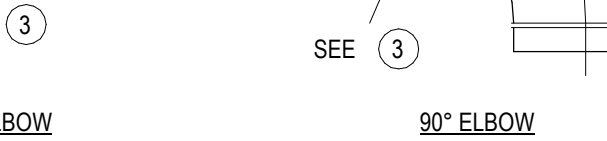
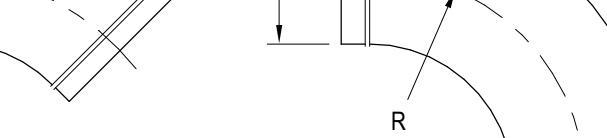
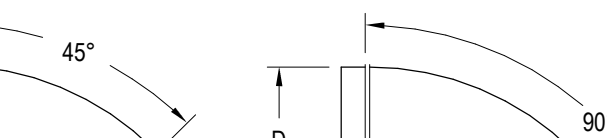
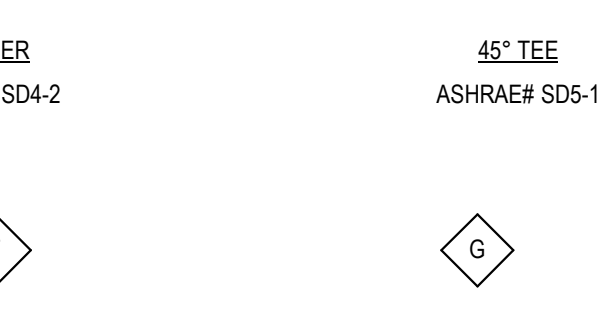
DUCT ELBOWS



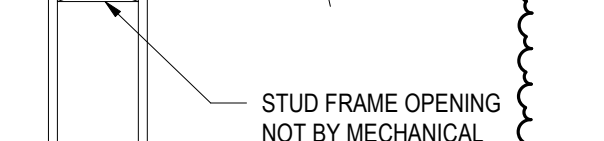
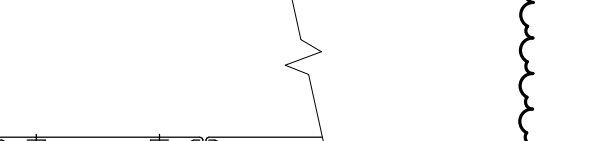
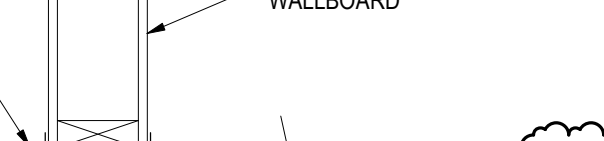
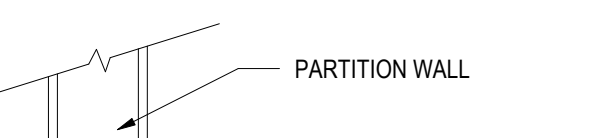
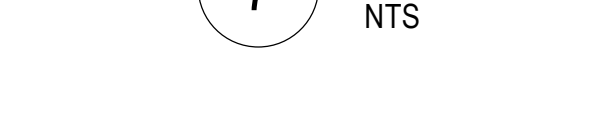
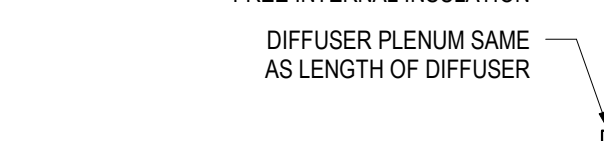
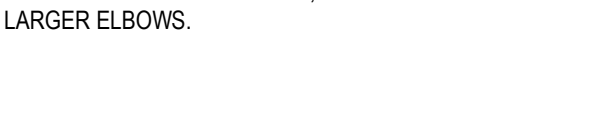
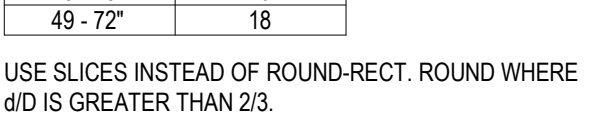
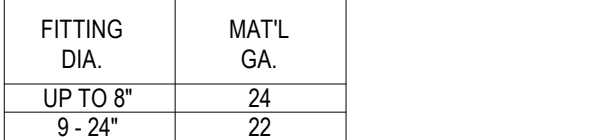
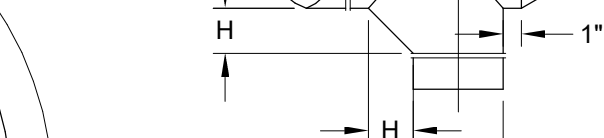
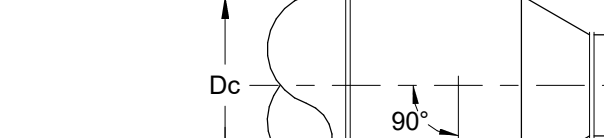
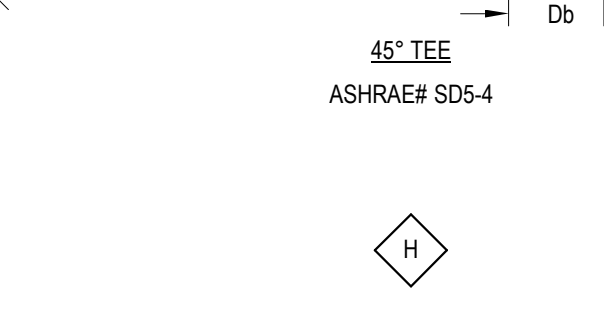
REDUCER



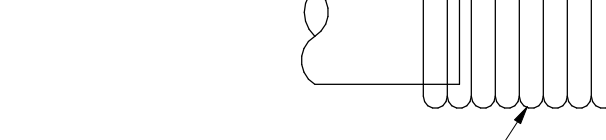
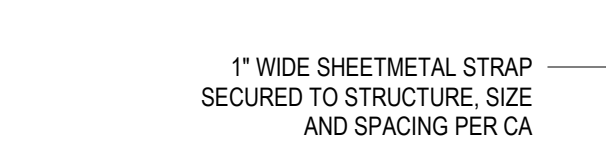
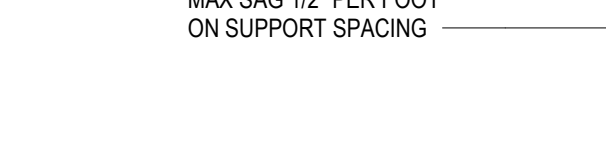
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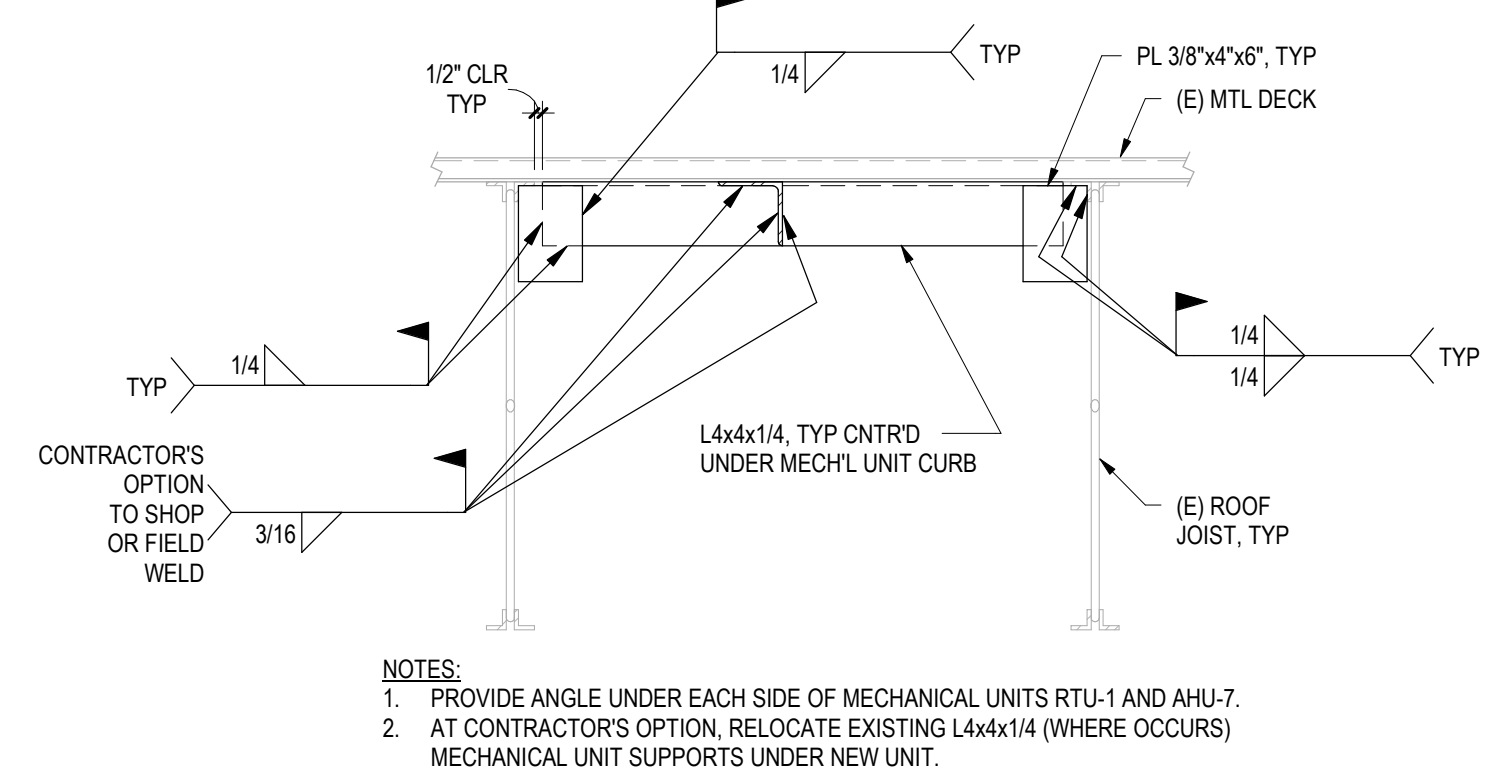


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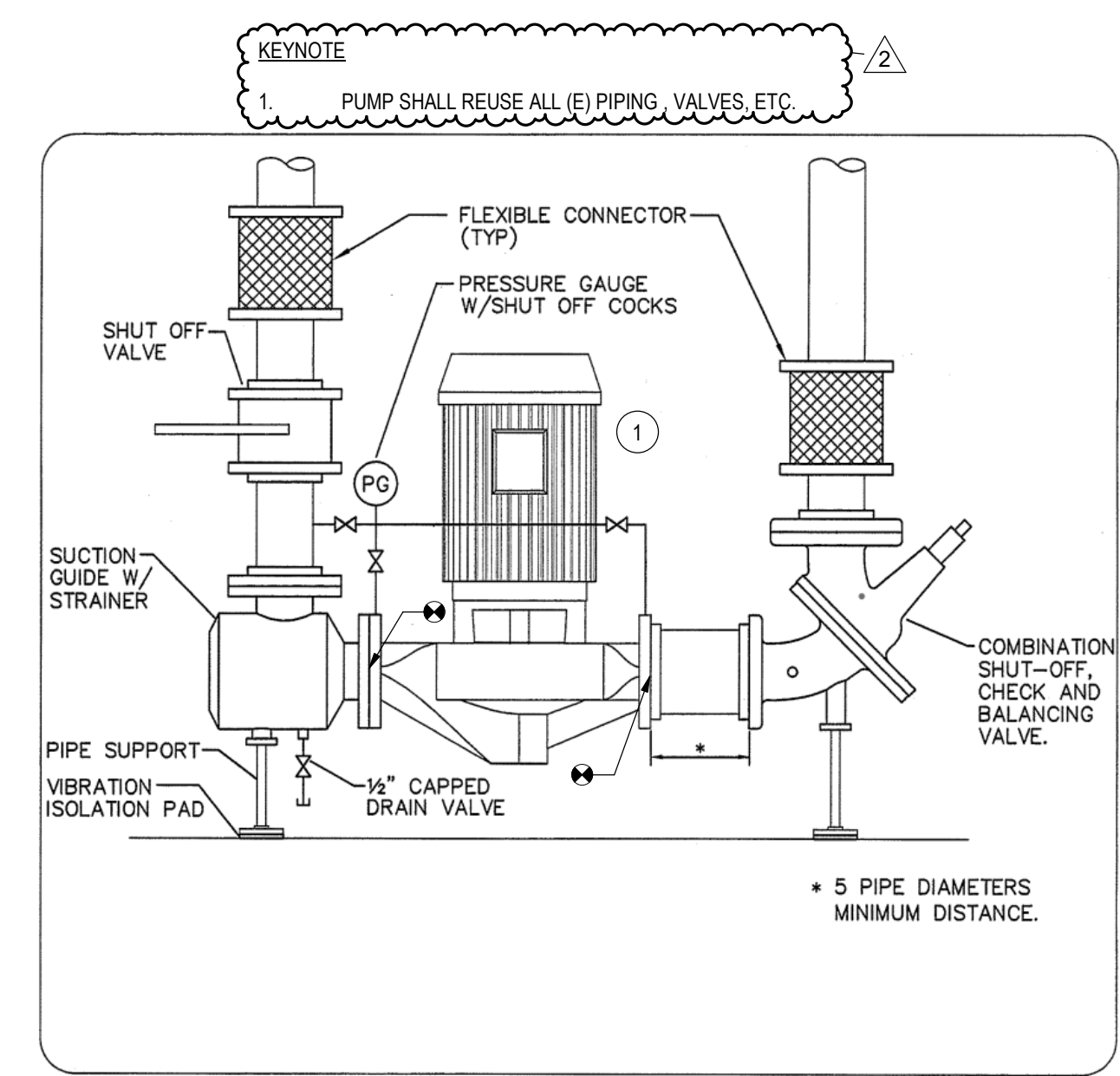


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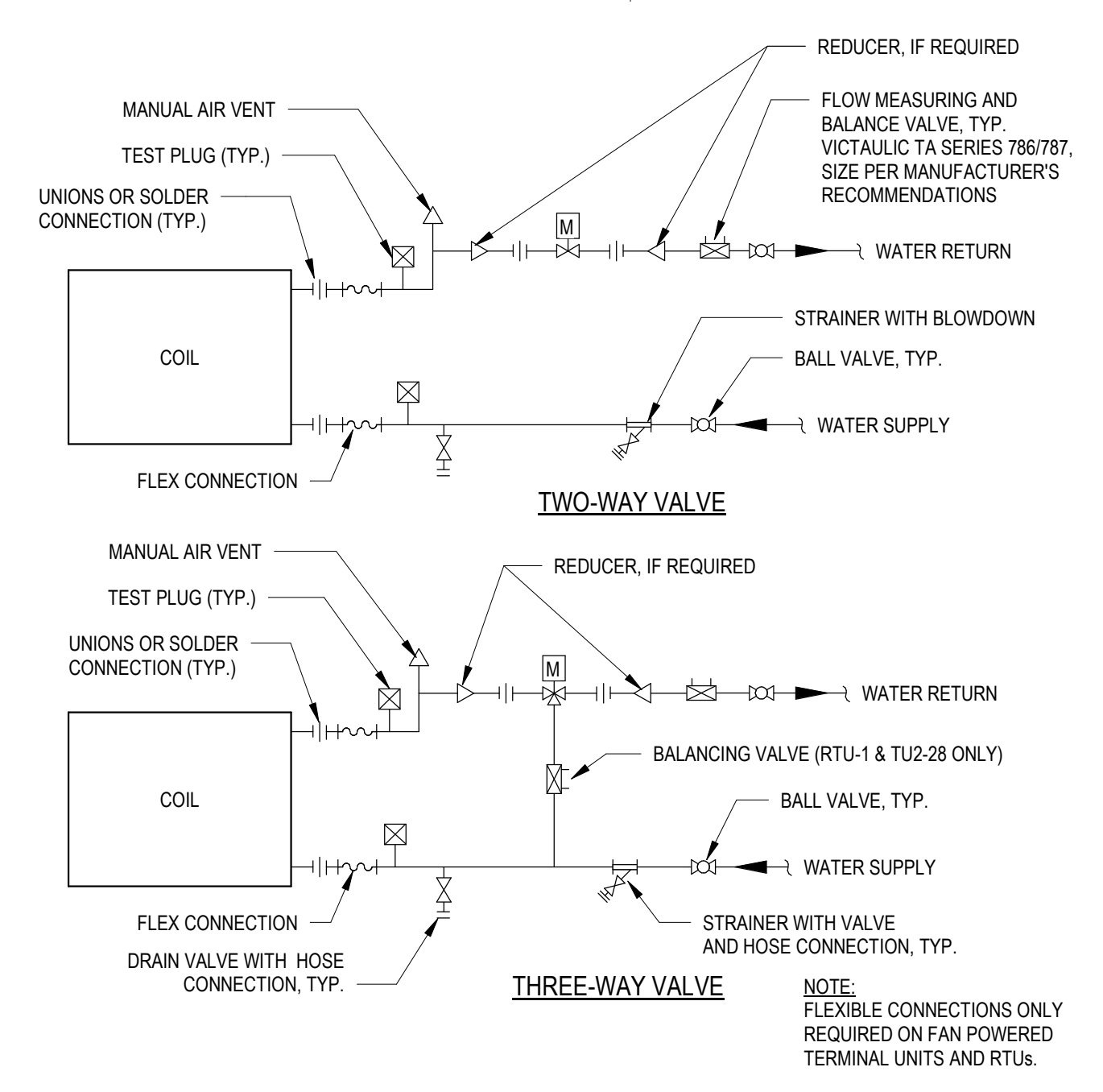




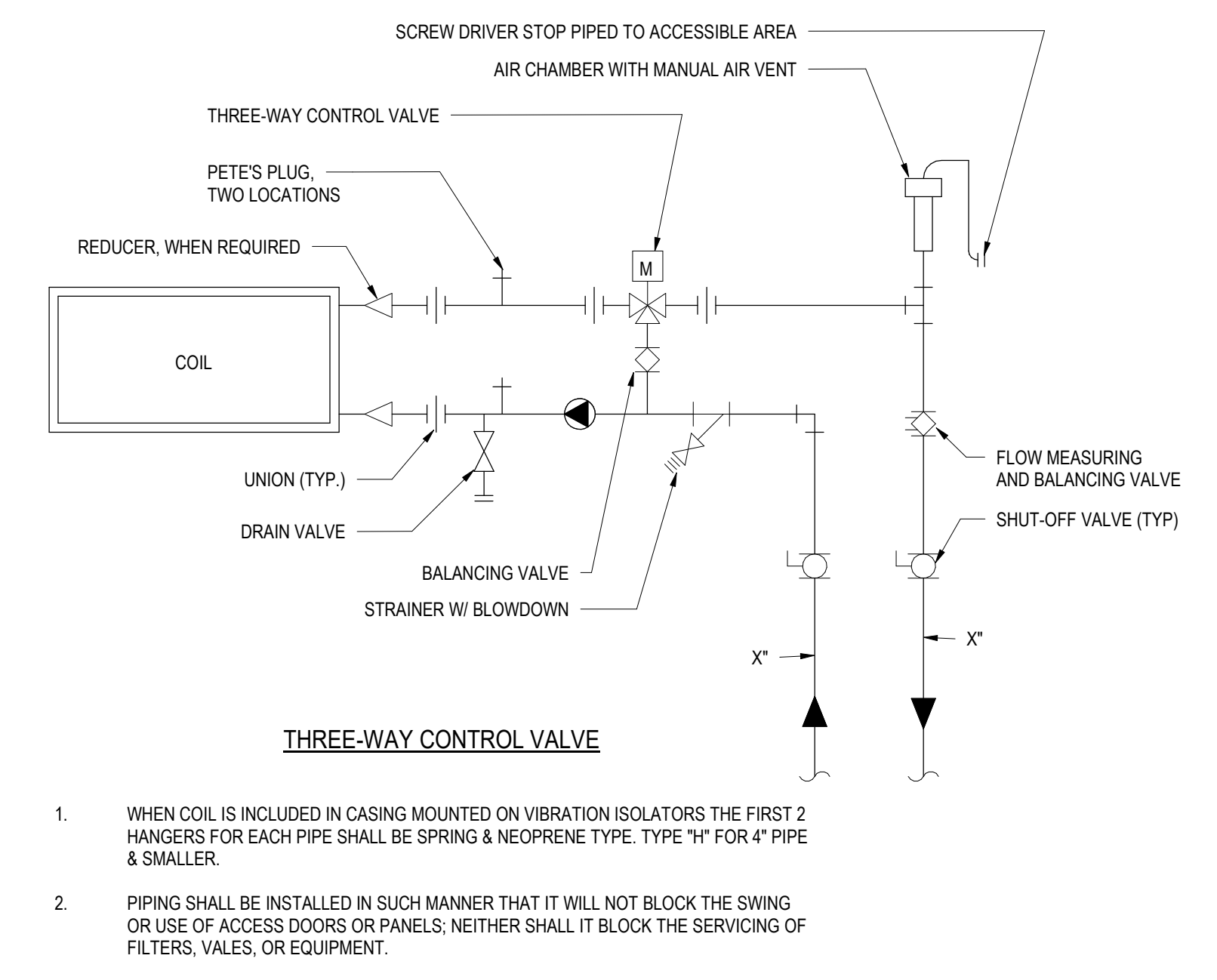
1 SUPPORT AT EXISTING STEEL FRAMED ROOF
1" = 1'-0"



2 IN-LINE PUMPS - CONNECTIONS
NTS



3 TYPICAL PIPING CONNECTIONS TO TERMINAL UNITS
NTS



4 TYPICAL PIPING CONNECTION TO RTU
NTS

1. WHEN COIL IS INCLUDED IN CASING MOUNTED ON VIBRATION ISOLATORS THE FIRST 2 HANGERS FOR EACH PIPE SHALL BE SPRING & NEOPRENE TYPE, TYPE "H" FOR 4" PIPE & SMALLER.
2. PIPING SHALL BE INSTALLED IN SUCH MANNER THAT IT WILL NOT BLOCK THE SWING OR USE OF ACCESS DOORS OR PANELS; NEITHER SHALL IT BLOCK THE SERVICING OF FILTERS, VALES, OR EQUIPMENT.



LAIR REMODEL (BLDG 6)

COMMUNITY COLLEGES OF SPOKANE

FINAL BID DOCUMENTS

REV	DATE	DESCRIPTION
2	1/15/2020	ADD-2

PROJ. NO. 2019-010
PROJECT MANAGER APKG
DATE 12/17/19
© ALSC ARCHITECTS, P.S.

MECHANICAL DETAILS

M-502

AIR HANDLING UNIT SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER / MODEL	SUPPLY FAN				EXHAUST FAN				COOLING CAPACITY								HEATING CAPACITY				UNIT ELECTRICAL REQUIREMENTS				FILTERS		UNIT WT (LBS)	NOTES																	
				TOTAL CFM	MIN OA CFM	ESP (\"WC)	BHP	RPM	DRIVE	TOTAL CFM	ESP (\"WC)	BHP	RPM	DRIVE	SENS. (MBH)	TOTAL (MBH)	EDB (F)	EWB (F)	LDB (F)	LWB (F)	AAT (F)	EER	REFR	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	FACE VEL (FPM)	OAT (F)	EAT (F)			LAT (F)	APD (\"WC)	EWT (F)	LWT (F)	FLOW (GPM)	WPD (FT WC)	TOTAL (MBH)	VOLTS	Ø	MCA	MCCP	#	SIZE (IN)	MERV			
MZU-5	ROOF	SW WING	MCQUAY / CAH-021	13885	4925	2	11	15	1000	-	13900	-	3.75	5	850	-	425	431	83	65	-	-	105	-	NU-22	800	640	80	-	-	-	-	-	-	-	-	-	-	208	3	230.2	300	8	3	2K24X24 2K12X24	8	10464	1,4
AHU-7	ROOF	SW WING	JCI / SERIES 40 V4 OR APPROVED EQUAL	16000	2200	2.25	21.54	25	895	BELT	14500	0.20	9	10	903	BELT	433.8	453.1	78.5	60.2	51.9	49.5	105	10.7	R-410A	-	-	-	1584	0	60	74.1	1.12	180	160	30.0	3.5	230.4	208	3	268	300	4	6	2K25X16 2K20X25	8	7550	2,3,5,6,7,8,9,10

1. BASE BID EXISTING UNIT TO REMAIN.
2. ALTERNATE BID 4.
3. PROVIDE WITH SINGLE POINT WEATHERPROOF GFCL.
4. INCLUDES EXISTING CURB WEIGHT.
5. PROVIDE CURB WITH VIBRATION ISOLATION. CURB HEIGHT INCLUDING ISOLATION RAILS SHALL NOT EXCEED 25" AND SHALL BE INSULATED.
6. PROVIDE UNIT WITH PACKAGE CONTROLS. UNIT MUST BE LOWWORKS COMPATIBLE.
7. PROVIDE WITH FACTORY SUPPLIED AIRFLOW MEASURING STATION.
8. HEATING HOT WATER SYSTEM CONTAINS 30% DOWFROST HD GLYCOL.
9. PROVIDE FACTORY INSTALLED VFD.
10. INCLUDES WEIGHT OF CURB.

GAS/ELECTRIC PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER / MODEL	SUPPLY FAN				COOLING CAPACITY				HEATING CAPACITY				UNIT ELECTRICAL REQUIREMENTS				AIR FILTERS		UNIT WT (LBS)	NOTES					
				TOTAL CFM	MIN OA CFM	ESP (\"WC)	BHP	RPM	MOTOR HP	SENS. (MBH)	TOTAL (MBH)	EDB (F)	EWB (F)	AAT (F)	EER	SYS. KW	INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	VOLTS	Ø			MCA	MCCP	#	SIZE (IN)	MERV
RTU-13	ROOF	220 STUDENT GOVERNMENT	JCI / SERIES 10 OR APPROVED EQUAL	2850	350	0.87	1.38	861	1.5	63.7	69.6	77.7	58.1	95	11.8	5.9	84	66.9	80	208	3	50.10	60	4	4x24x20	13	1420	1,2,3,4,5,6,7

1. UNIT TO BE PROVIDED IN BASE BID ONLY. IF ALTERNATE BID IS ACCEPTED BASE BID UNIT WILL NOT BE INSTALLED.
2. PROVIDE WITH PACKAGE CONTROLS. CONTROLS MUST BE LOWWORKS COMPATIBLE.
3. PROVIDE WITH INSULATED 8" CURB.
4. PROVIDE WITH LOW AMBIENT KIT.
5. PROVIDE WITH POWER EXHAUST.
6. PROVIDE FACTORY INSTALLED VFD.
7. PROVIDE WITH SINGLE POINT WEATHERPROOF GFCL.

VAV TERMINAL UNIT SCHEDULE

TAG	MANUFACTURER / MODEL	AREA SERVED	UNIT SIZE	CFM			HW COIL										DP (IN WG)	OUTLET SIZE	WEIGHT	LINER	MAX. RAD NC	MAX. DIS NC	NOTES		
				MAX	MIN	HEAT	EAT	LAT	MBH	FROM TRACE	HIDE	EWT	LWT	ROWS	FPD	GPM								BRANCH SIZE	
TU-1B	PRICE/SDVS	FOOD BANK	9	950	300	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	14x12.5	60	FIBER GLASS	20	20	1
TU-1A	PRICE/SDVS	WEST OFFICES	9	950	285	950	55	85	37	37	180	152.1	2	1.58	2.76	7/8	0.5	14x12.5	300	FIBER GLASS	20	20	2,3,4		
TU-2A	PRICE/SDVS	NORTH BOOKSTORE	16	3600	1080	3600	55	85	70	67	180	159.6	1	7.53	7.13	1/2	0.5	24x18	50	FIBER GLASS	20	20	2,3,5		
TU-3A	PRICE/SDVS	SOUTH BOOKSTORE	16	3200	960	1600	55	85	50	44	180	163.70	1	6.19	6.39	1/2	0.5	24x18	50	FIBER GLASS	20	20	2,3,4		
TU-4A	PRICE/SDVS	EAST OFFICES	7	525	160	250	55	85	8	2.5	180	162	1	0.72	0.91	1/2	0.5	12x10	22	FIBER GLASS	20	20	2,3,5		
TU-5A	PRICE/SDVS	MAIN ENTRANCE	16	3805	1145	3000	55	85	65	64	180	160.4	1	7.10	6.89	1/2	0.5	24x18	50	FIBER GLASS	20	20	2,3,5		
TU-6A	PRICE/SDVS	EAST BOOKSTORE	9	1200	360	700	55	85	23	23	180	129	1	0.32	1.00	1/2	0.5	14x12.5	28	FIBER GLASS	20	20	2,3,5		
TU-7A	PRICE/SDVS	OPEN OFFICE	12	1800	540	600	55	85	15	13.5	180	155.6	1	0.26	1.27	1/2	0.5	16x15	34	FIBER GLASS	20	20	2,3,5		
TU-8A	PRICE/SDVS	FOOD BANK	8	880	270	450	55	85	10	2	180	158.3	1	0.78	0.95	1/2	0.5	12x10	22	FIBER GLASS	20	20	2,3,5		

1. BASE BID.
2. ALTERNATE BID.
3. HEATING WATER SYSTEM IS 30% DOWFROST HD GLYCOL.
4. PROVIDE WITH 3-WAY VALVE.
5. PROVIDE WITH 2-WAY VALVE.

ELECTRIC DUCT HEATER SCHEDULE

TAG	LOCATION	SERVES	MANUFACTURER / MODEL	CFM	VELOCITY (FPM)	DUCT DIMENSIONS (IN)		SUPPLY LINE		NO. OF HEATING STAGES	NOTES	
						W (WIDTH)	H (HEIGHT)	KW	VOLTS			PHASE
EDH-1	PLENUM	PRIDE AND GOLBAL OFFICES	MARKEL/SERIES HF	1240	690	16	16	13.5	208	3	2	1
EDC-2	PLENUM	GLOBAL DEAN OFFICE	MARKEL/SERIES HF	580	580	12	12	6	208	3	2	1
EDC-3	PLENUM	RECEPTION AREA	MARKEL/SERIES HF	275	490	10	8	3	208	3	2	1
EDC-4	PLENUM	NORTH OFFICES	MARKEL/SERIES HF	345	495	10	10	4	208	3	2	1
EDC-5	PLENUM	GLOBAL OFFICES AND CONFERENCE ROOM	MARKEL/SERIES HF	2925	900	26	18	30	208	3	3	1
EDC-6	PLENUM	WEST OFFICES AND MEDITATION ROOM	MARKEL/SERIES HF	585	650	12	12	6	208	3	2	1

1. EXISTING TO REMAIN.

GRILLES, REGISTERS, DIFFUSERS SCHEDULE

TAG	TYPE	MFR	MODEL	GRILLE SIZE	NECK SIZE	PANEL SIZE	THROW PATTERN	DAMPER TYPE	MATERIAL	FRAME STYLE	FINISH	NOTES
1S	SUPPLY	PRICE	SPD	24x24	6\"	24x24	4-WAY	-	STEEL	T-BAR	B12	
2S	SUPPLY	PRICE	SPD	24x24	8\"	24x24	4-WAY	-	STEEL	T-BAR	B12	
3S	SUPPLY	PRICE	SPD	24x24	12\"	24x24	4-WAY	-	STEEL	T-BAR	B12	
4S	SUPPLY	PRICE	SPD	24x24	14\"	24x24	4-WAY	-	STEEL	T-BAR	B12	
5S	SUPPLY	PRICE	SDS100	48\"	10\"	-	4 SLOT	-	STEEL	LAY-IN	B12	2
6S	SUPPLY	PRICE	SDS100	60\"	10\"	-	4 SLOT	-	STEEL	LAY-IN	B12	2
7S	SUPPLY	PRICE	SDS100	48\"	10\"	-	2 SLOT	-	STEEL	SURFACE	B12	2
8S	SUPPLY	PRICE	SDS100	60\"	10\"	-	3 SLOT	-	STEEL	SURFACE	B12	2
9S	SUPPLY	PRICE	PRODIGY	24x24	10\"	24x24	4-WAY	-	STEEL	SURFACE	B12	3
10S	SUPPLY	PRICE	PRODIGY	24x24	12\"	24x24	4-WAY	-	STEEL	SURFACE	B12	3
11S	SUPPLY	PRICE	SDS100	48\"	10\"	-	4 SLOT	-	STEEL	SURFACE	B12	2,4
1R	RETURN	PRICE	510/TBAL	24x12	24x12	24x12	-	-	STEEL	T-BAR	B12	1
2R	RETURN	PRICE	510/TBAL	24x24	24x24	24x24	-	-	STEEL	T-BAR	B12	1
3R	RETURN	PRICE	SDS	48\"	-	-	2 SLOT	-	STEEL	SURFACE	B12	1
4R	RETURN	PRICE	SDS	60\"	-	-	2 SLOT	-	STEEL	SURFACE	B12	1

1. PLENUM RETURN.
2. 1" SLOT SPACING AND SDA PLENUM.
3. PROVIDE WITH 3-WAY VALVE.
4. UNIT TO BE PROVIDED UNDER ALTERNATE BID.

PUMP SCHEDULE

TAG	LOCATION	SYSTEM SERVED	MANUFACTURER / MODEL	PUMP TYPE	FLUID	PERFORMANCE			MOTOR ELECTRICAL DATA		WEIGHT	NOTES	
						FLOW (GPM)	PD (FT HD)	SPEED (RPM)	HP	VOLTS			PH
P-1	MECHANICAL ROOM	HEATING WATER	ARMSTRONG / 4300-3-3-10	VERTICAL SPLIT CASE	30% PG	260	90	1800	10	208	3	330	1.2
P-2	MECHANICAL ROOM	HEATING WATER	ARMSTRONG / 4300-3-3-10	VERTICAL SPLIT CASE	30% PG	260	90	1800	10	208	3	330	1.2

1. PROVIDE WITH 9.85 IN IMPELLER.
2. PROVIDE WITH SHAFT GROUNDING.

VARIABLE FREQUENCY DRIVE SCHEDULE

TAG	LOCATION	EQUIPMENT SERVED	MANUFACTURER / MODEL	MOTOR DATA				BYPASS (Y/N)	DISCONNECT / FUSES (Y/N)	CONTROL INTERFACE	NEMA ENCLOSURE	SMULT. MOTOR OPER. (Y/N)	CONTACTOR SELECTOR (Y/N)	INPUT LINE REACTOR (Y/N)	OUTPUT LINE REACTOR (Y/N)	NOTES
				MOTOR QTY	MOTOR HP	EA	TOTAL FLA									
VFD-1	MECH ROOM	P-1	ABB / ACS550	1	10		30.8	208 / 3	N	Y	LON	1	N	Y	Y	1,2,3
VFD-2	MECH ROOM	P-2	ABB / ACS550	1	10		30.8	208 / 3	N	Y	LON	1	N	Y	Y	1,2,3

1. VFDs FURNISHED BY CONTROLS CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
2. WIRING AND LOCAL DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
3. MOUNT VFDs TO EXISTING FRAME IN MECHANICAL ROOM.

SEISMIC AND VIBRATION CONTROL

TAG	EQUIPMENT	LEVEL	RESTRAINTS	BASE	VIBRATION ISOLATOR TYPE	FLEXIBLE CONNECTORS	DEFLECTION (IN)
RTU-13	PACKAGED ROOFTOP UNIT	ROOF	Y	D	TYPE 3	Y	0.75
AHU-7	AIR HANDLER	ROOF	Y	D	TYPE 4	Y	2.5
P-X	HYDRONIC PUMPS	MECH ROOM	Y	A	TYPE 3	Y	0.75
DUCTWORK	SUPPLY MAIN AND RETURN MAIN FROM AHU-7	1	Y	NA	TYPE 7	Y	0.75
HWS/HWR	PIPING	ROOF	Y	NA	Y	Y	NA

SEISMIC RESTRAINT PROVISIONS

SEISMIC SUPPORTS ARE REQUIRED FOR THIS PROJECT FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT AND DISTRIBUTION SYSTEMS. SEISMIC RESTRAINT CALCULATIONS MUST BE PROVIDED BY THE PRODUCT MANUFACTURER FOR ALL CONNECTIONS OF EQUIPMENT TO THE STRUCTURE. ALL RESTRAINTING DEVICES SHALL HAVE TESTING DATA TO VALIDATE MAXIMUM RESTRAINT RATINGS. PRE-APPROVALS BASED ON INDEPENDENT TESTING ARE PREFERRED TO PRE-APPROVALS BASED ON CALCULATIONS. CALCULATIONS INCLUDING THE COMBINING OF TENSILE AND SHEAR LOADINGS TO SUPPORT SEISMIC RESTRAINT DESIGNS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN CO. THE ENGINEERING ANALYSIS MUST INDICATE CALCULATED DEAD LOADS, STATIC SEISMIC LOADS, AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT STRUCTURE. ANALYSIS MUST DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT, AND/OR WELDED LENGTH APPLICATIONS.

ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES PRESCRIBED PER THE ASCE 7-05 ACTING THROUGH THE EQUIPMENT CENTER OF GRAVITY. OVERTURNING MOMENTS MAY EXCEED FORCES AT GROUND LEVEL AND MAY BE RESISTED BY SEISMIC RESTRAINTS, SUPPORT, OR ANCHORAGE. ANCHORAGE TO CONCRETE MUST HAVE AN ICC TESTING REPORT THAT ADHERES TO THE REQUIREMENTS OF THE 2015 IBC AND MUST BE RATED FOR SEISMIC RESTRAINT IN CRACKED CONCRETE USING THE APPROPRIATE REDUCTION FACTORS PER ACI 318 APPENDIX D. ACCEPTABLE ANCHORS INCLUDE THE HILTI KWIK BOLT TZ AND SIMPSON STRONG BOLT WEDGE ANCHORS OR HILTI HIT-RE 500-SD AND SIMPSON SET XP EPOXY ANCHORS. EPOXIES ARE NOT ACCEPTABLE FOR USE IN OVERHEAD APPLICATIONS.

ASCE 7-10 SEISMIC DESIGN CRITERIA

SEISMIC DESIGN CATEGORY "C"
RISK CATEGORY CATEGORY II
SITE CLASS "D"
SEISMIC IMPORTANCE FACTOR FOR BUILDING, I_s = 1.0
COMPONENT RESPONSE MODIFICATION AND AMPLIFICATION FACTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-10, TABLE 13.6-1.
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS (0.2 SECOND):
SDS = 0.342 G.
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD:
SD1 = 0.179 G.

- #### NOTES
1. CONCRETE PAD MASS TO EQUAL AT LEAST 75% OF EQUIPMENT
 2. NR=NOT REQUIRED, NA=NOT APPLICABLE
 3. PIPING TO BE BRACED LATERALLY A MINIMUM OF EVERY 40' AND LONGITUDINALLY EVERY 80' REGARDLESS OF SEISMIC REQUIREMENTS.
 4. SEE SPECIFICATION SECTION 23 05 40 FOR DESCRIPTION AND REQUIREMENTS OF BASES, ISOLATORS, AND RESTRAINTS.
 5. ALL PIPING GREATER THAN 1" MUST BE RESTRAINED
 6. NR=NOT REQUIRED, NA=NOT APPLICABLE
 7. EQUIPMENT VENDOR TO DETERMINE DEFLECTION

RESTRAINTS

A = ANCHOR
AM = ANCHOR SPECIFIED BY EQUIPMENT MANUFACTURER
B = RESTRAINING BASE WITH SNUBBER
Y = REQUIRED PER SPECIFICATION 23 05 40

BASE TYPE

A = ISOLATOR ATTACHED TO EQUIPMENT DIRECTLY
B = STRUCTURAL STEEL RAILS OR BASE
C = CONCRETE INERTIA BASE
D = CURB-MOUNTED BASE

ISOLATOR TYPE

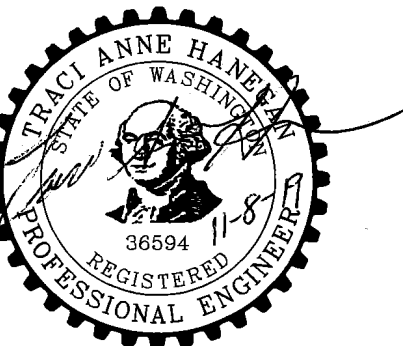
1. PAD: RUBBER, GLASS FIBER
2. RUBBER ISOLATOR, FLOOR OR HANGER
3. SPRING ISOLATOR, FLOOR OR HANGER
4. RESTRAINED SPRING ISOLATOR
5. THRUST RESTRAINT
6. AIR SPRING



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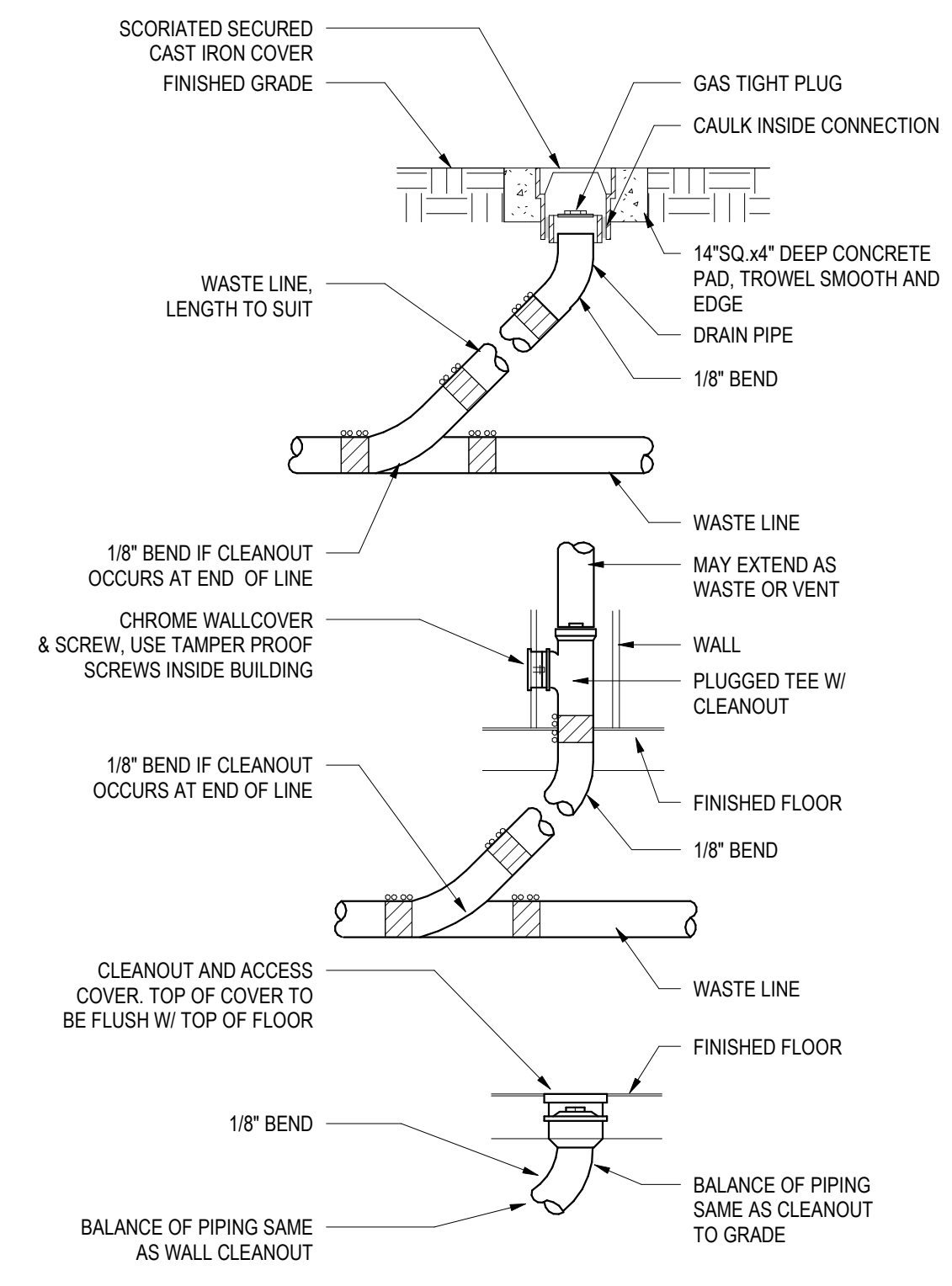
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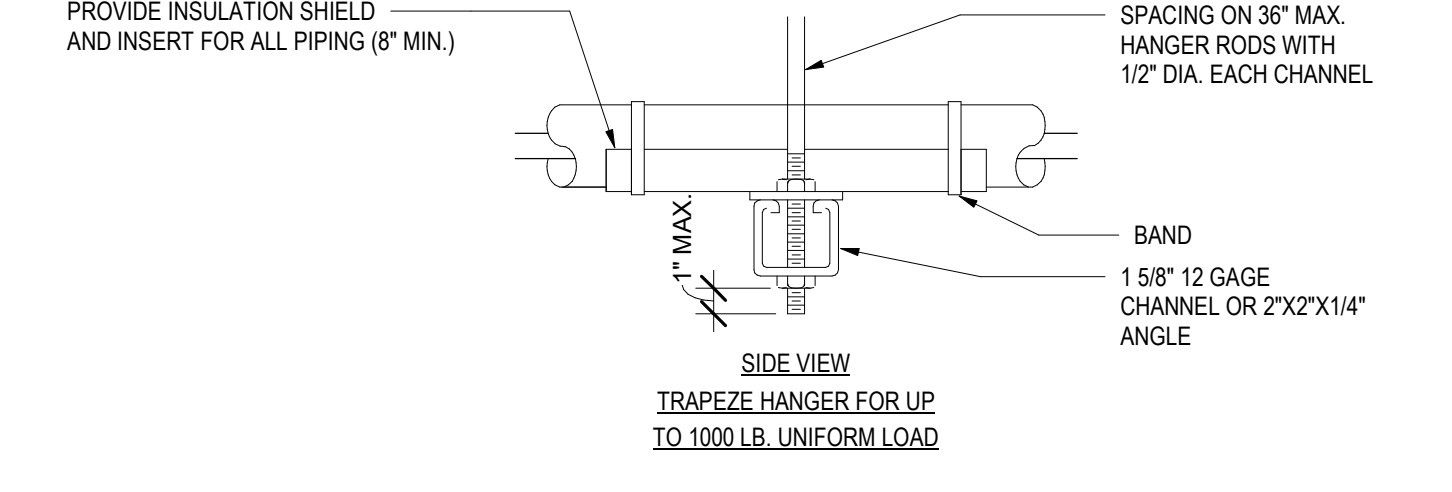
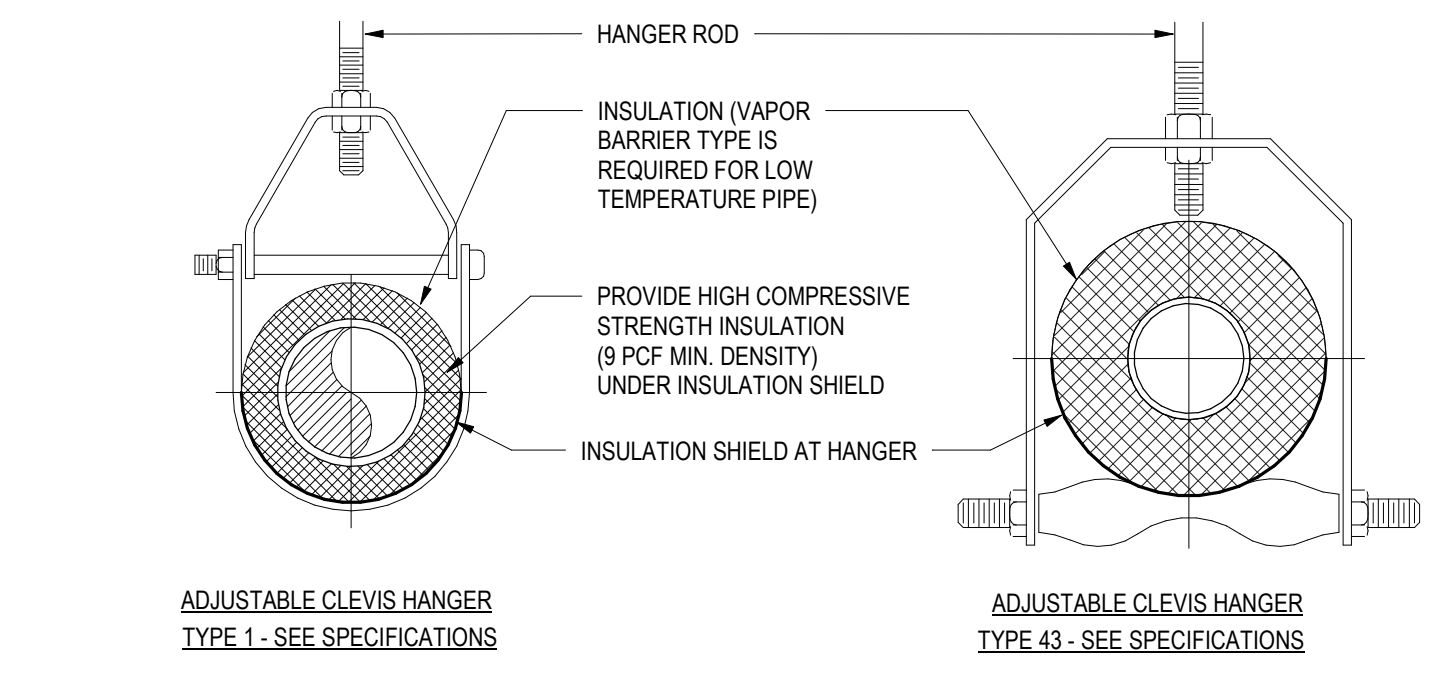
MECHANICAL SCHEDULES

M-601

1 2 3 4 5 6



1 CLEANOUTS
NTS

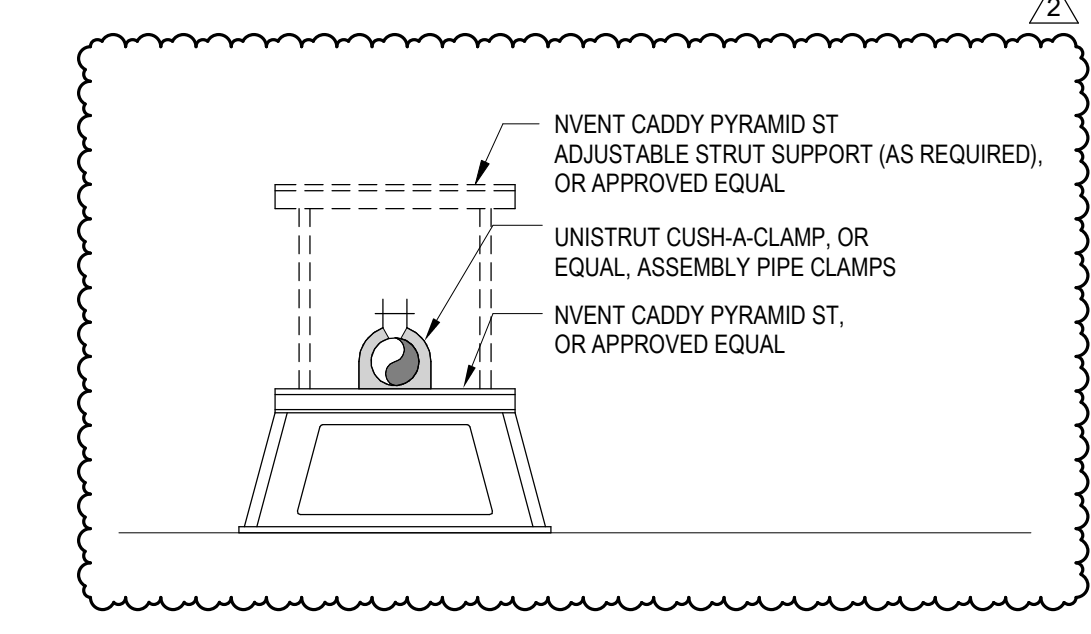


3 VENT THRU ROOF
NTS

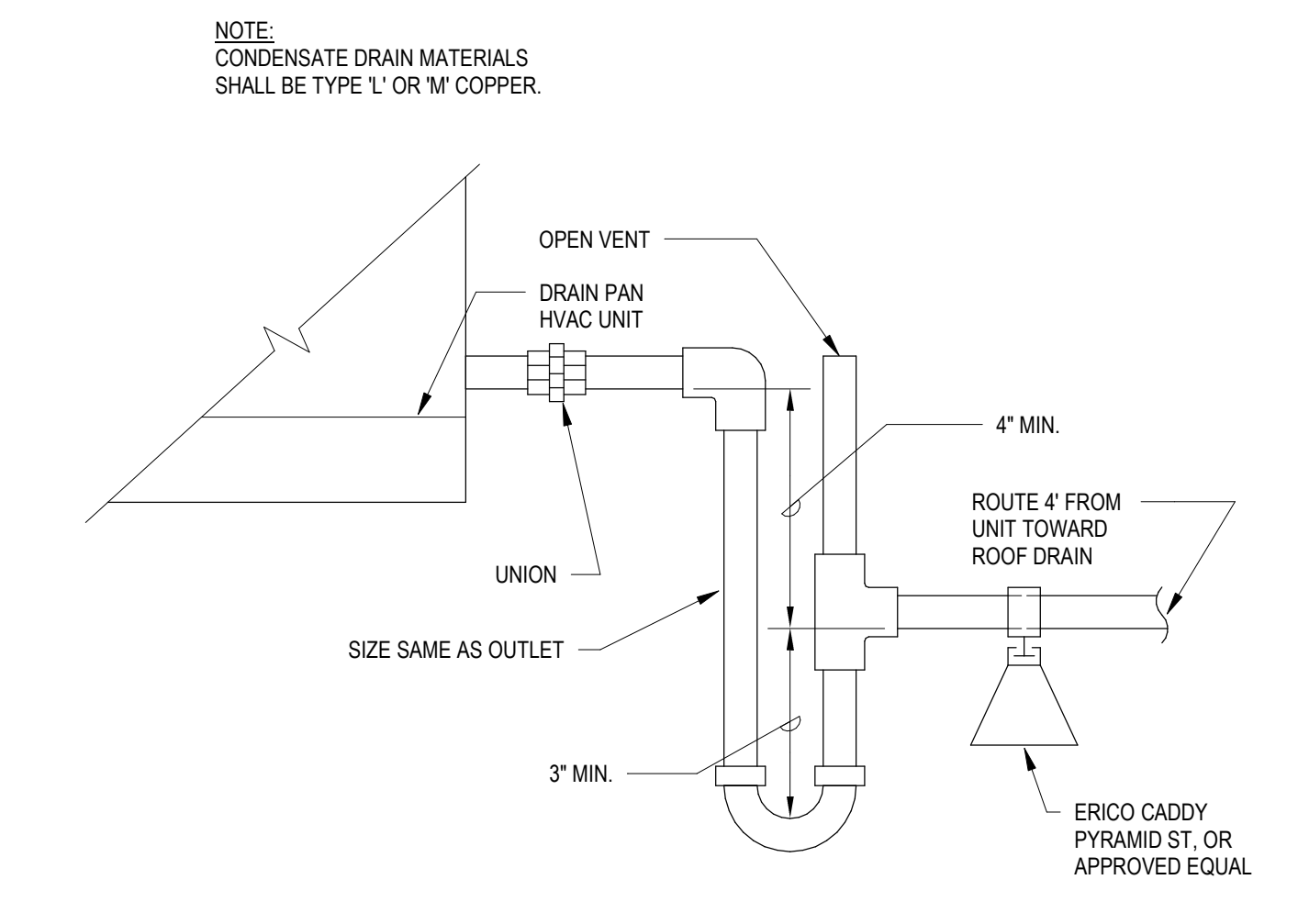
MAXIMUM PIPE/TUBING SUPPORT SPACING													
NOM. SIZE	IN.	THRU 3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10
PIPE	FT.	7	7	7	9	10	11	12	14	16	17	19	22
TUBING	FT.	5 FT	6	7	8	8	9	10	12	13	14	16	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

2 TYPICAL PIPE HANGER
NTS



4 PIPE SUPPORT ON ROOF
NTS



5 CONDENSATE TRAP - ROOFTOP UNIT
NTS

PLUMBING FIXTURE SCHEDULE																	
TAG	TYPE	MFR	FIXTURE DESCRIPTION				PLUMBING ROUGH-IN CONNECTIONS					POWER REQ'TS		NOTES			
			FIXTURE	TRIM	SUPPLIES	TRAP	DIRECT WASTE	VENT	IND. WASTE	CW	120F HW	140F HW	VOLTS		Ø	MCA	MOCP
P1-1	SINK COUNTERMOUNT	ELKAY	LRA02219	MOEN 8225SMF1.5	BASKET STRAINER	P-TRAP	2"	1-1/2"	-	1/2"	1/2"	-	-	-	-	-	1

1. 4" SMOOTH METAL HANDLES, 8" GOOSENECK SPOUT, AND 1.5 GPM LAMINAR FLOW OUTLET.

ELECTRIC WATER HEATER SCHEDULE													
TAG	LOCATION	SERVES	MANUFACTURER / MODEL	HEATER TYPE	CONNECTIONS		OUTLET TEMP (F)	WATTS	UNIT POWER REQUIREMENTS			WEIGHT (LBS)	NOTES
					CW	HW			VOLT	Ø	BREAKER AMPS		
WH-1	UNDERSINK	MEDITATION ROOM SINK	CHRONOMITE SR-40	STORAGE ELECTRIC	3/8	3/8	110	8320	120	1	40	5	1
WH-2	UNDERSINK	MEDITATION ROOM SINK	CHRONOMITE SR-40	STORAGE ELECTRIC	3/8	3/8	110	8320	120	1	40	5	2

1. EXISTING.
2. EXISTING. PROVIDE TO OWNER FOR REUSE.

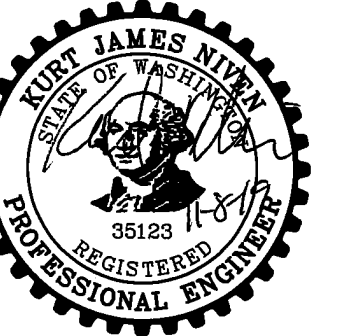


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1 2 3 4 5 6

E
D
C
B
A



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LEVEL 01 -
POWER PLAN

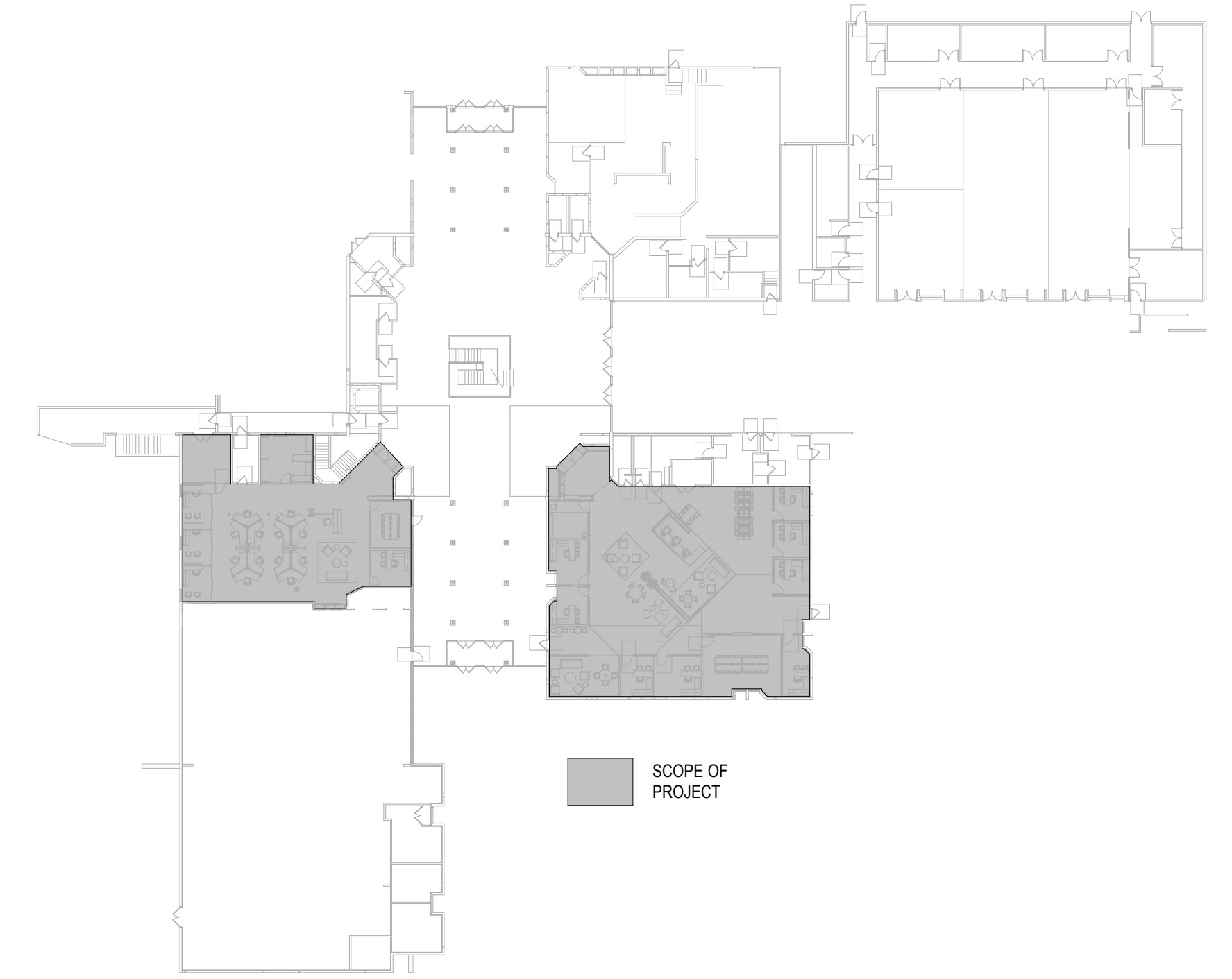
EP110

GENERAL NOTES:

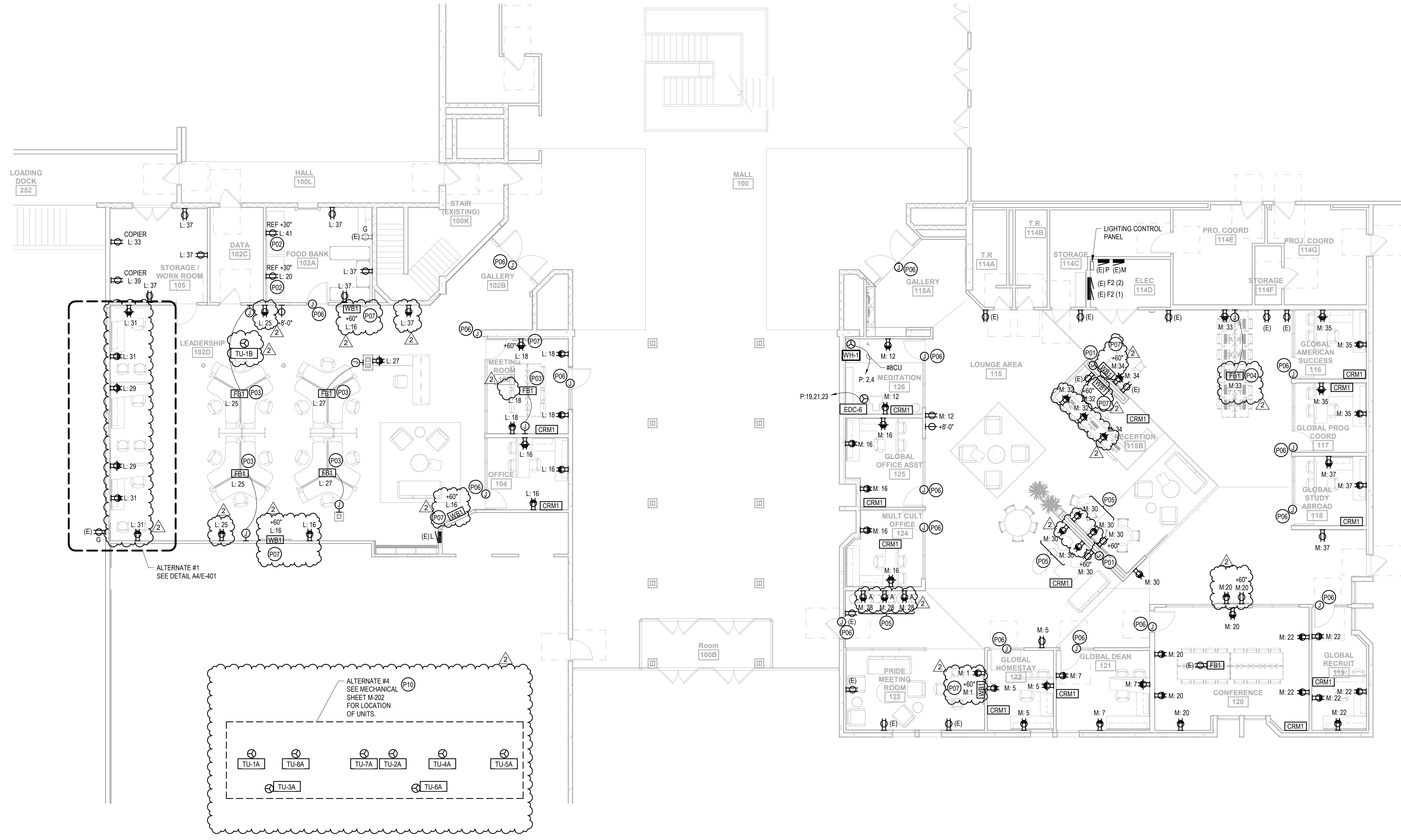
1. ALL WORK SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE NEC AS THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
2. SEE FLOOR BOX SCHEDULE FOR DATA REQUIREMENTS.
3. SEE MECHANICAL SCHEDULE FOR DUCTWORK, PIPING AND DAMPER LOCATIONS.
4. CAMERAS ARE (CFO) PROVIDED UNDER A SEPARATE CONTRACT. PRIOR TO ROUGH-IN OBTAIN MOUNTING HEIGHT INFORMATION FROM PSD'S CAMERA PROVIDER.
5. ELECTRONIC DOOR HARDWARE AND MAGNETIC HOLD OPEN POWER SUPPLIES ARE PROVIDED UNDER 28 3113.
6. MAGNETIC DOOR HOLDERS MAY BE FOR OWNER CONVENIENCE AND LOCKDOWN ONLY. THESE MAY NOT REQUIRE FIRE ALARM RELEASE.
7. CONTRACTOR TO USE APPROPRIATE CONDUCTOR SIZES TO ENSURE VOLTAGE IS LESS THAN 3% FOR ALL CIRCUITS.
8. SEE ARCHITECTURAL PLANS FOR FIRE SEPARATION. PROVIDE FIRE SEALANT FOR ALL PENETRATIONS.
9. IN AREAS WITH OPEN CEILINGS, NEATLY INSTALL CONDUIT AND CONCEAL FROM VIEW AS MUCH AS POSSIBLE USING THE STRUCTURE.
10. SEE ARCHITECTURAL PLANS FOR ALL SEISMIC JOINTS.
11. CONTRACTOR SHALL COORDINATE ANY SHUT DOWN OF SYSTEMS WITH OWNER.
12. VERIFY EXISTING CONDITIONS AS THEY APPLY TO THIS PROJECT AND INCLUDE IN BID SUFFICIENT ALLOWANCE TO COVER ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS AS THEY CURRENTLY EXIST. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL DEVICES AND PANELS REFERENCED.
13. FIELD VERIFY AND COORDINATE EXACT PANEL LOCATION OF ALL EXTENDED AND MODIFIED CIRCUITS PRIOR TO CONSTRUCTION. VERIFY THAT THE MODIFIED CIRCUIT IS STILL BEING FED FROM THE CORRECT PANEL ASSOCIATED AND PERFORM A FUNCTIONALITY TEST OF DEVICES PRIOR TO PROJECT COMPLETION.
14. REFER TO SHEET E-501 FOR CONTROLLED RECEPTACLE WIRING DIAGRAM.

KEYNOTES (XX)

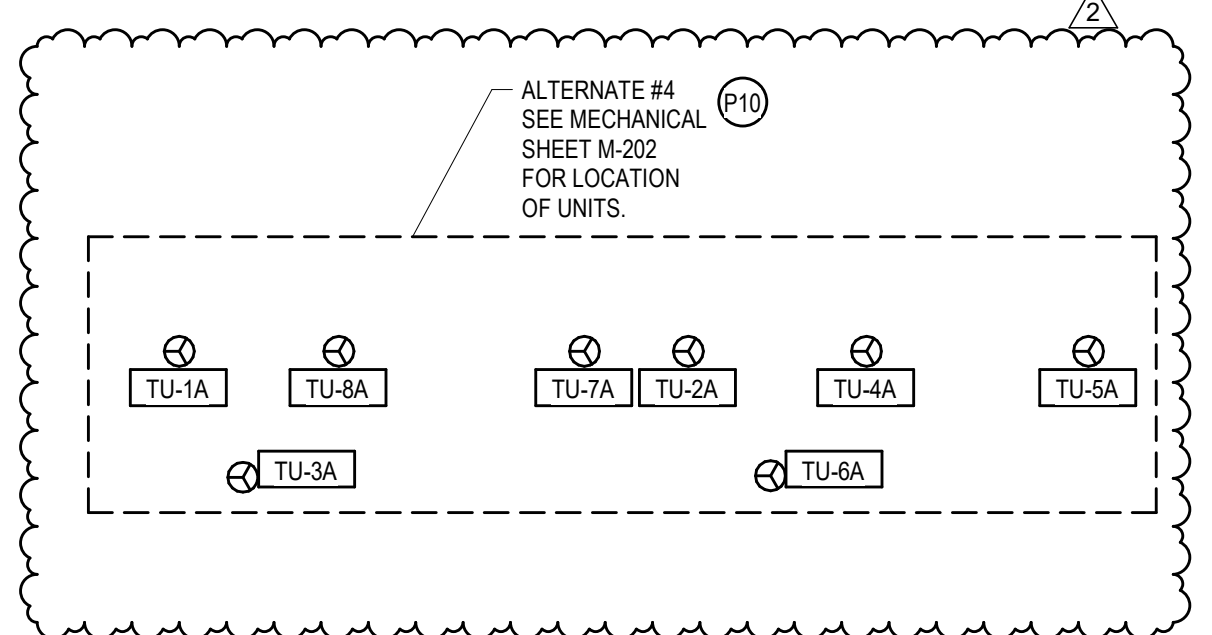
- P01 RELOCATED OVERHEAD POWER FEED FROM PREVIOUS POWER POLE CIRCUITS TO BE FED THROUGH NEW WALL AND SERVE NEWLY DESIGNED CIRCUITS.
- P02 RELOCATED REF. UNIT FROM OLD FOOD BANK ROOM.
- P03 PROVIDE CONNECTRAC 2.7 UNDER CARPET WIREWAY PS-2.7-QD-144 WITH END COMPONENT KIT UN2.7-EC TO SERVE AREA DESK LAYOUT SHOWN. POWER FOR CIRCUITS TO COME FROM J-BOX IN WALL SHOWN.
- P04 PROVIDE CONNECTRAC 2.7 UNDER CARPET WIREWAY PS-2.7-QD-288 WITH END COMPONENT KIT UN2.7-EC TO SERVE AREA DESK LAYOUT SHOWN. POWER FOR CIRCUITS TO COME FROM J-BOX IN WALL SHOWN.
- P05 PROVIDE USB DUPLEX RECEPTACLE LEGRAND MODEL TM282USB OR APPROVED.
- P06 PROVIDE SINGLE-PHASE 120VAC FOR DOOR HARDWARE POWER SUPPLIES CIRCUITED TO PANEL M-14. COORDINATE INSTALLATION WITH ARCHITECT AND DOOR HARDWARE PROVIDER.
- P07 INSTALL IN RECESSED BACKBOX. SEE DETAIL C1E-501 FOR REFERENCE.
- P10 (BID ALTERNATE) PROVIDE 120VAC CONNECTION TO TERMINAL UNITS SHOWN ON MECHANICAL SHEET M-202. REFERENCE MECHANICAL SCHEDULE FOR CONNECTIONS.



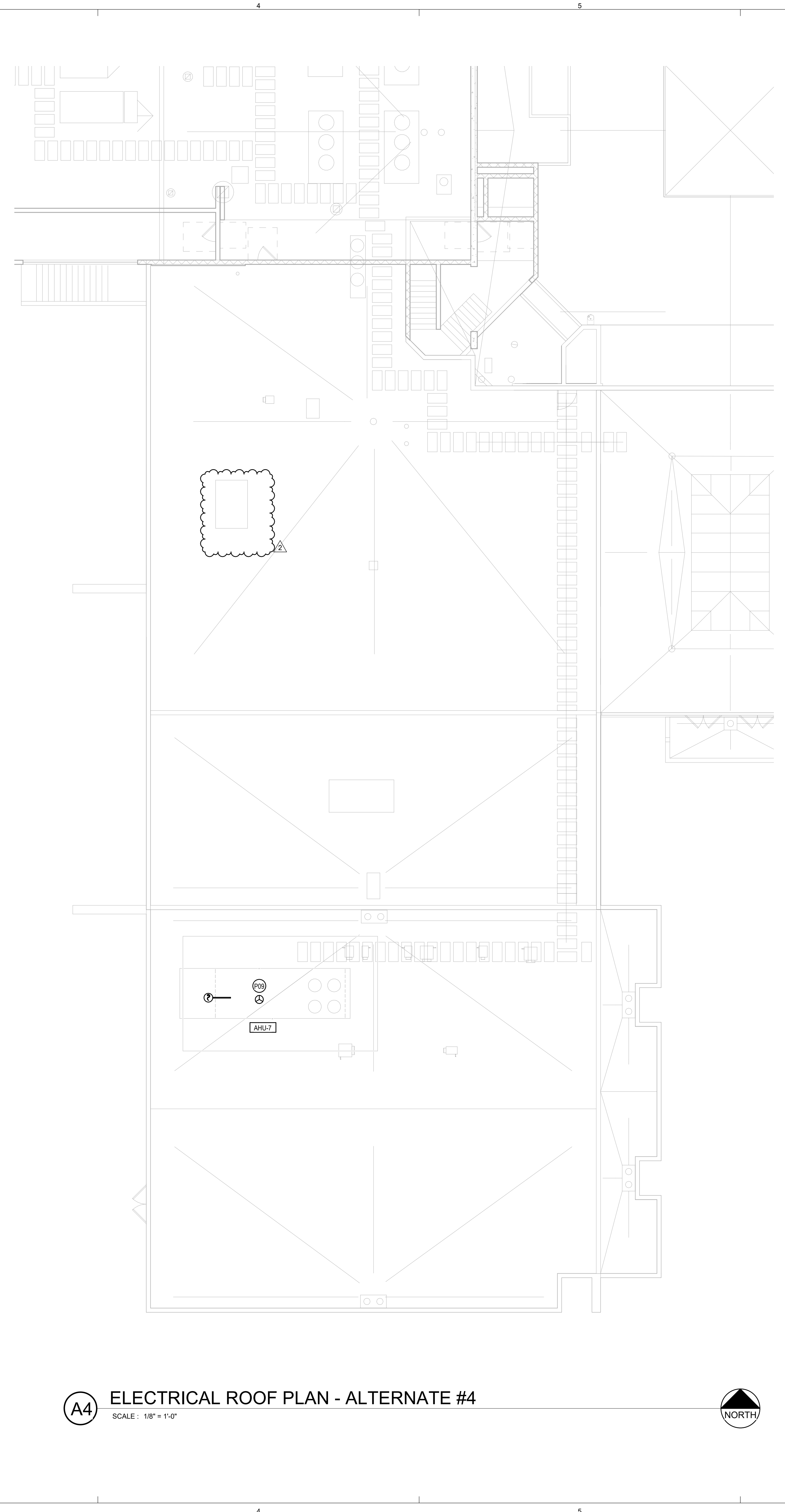
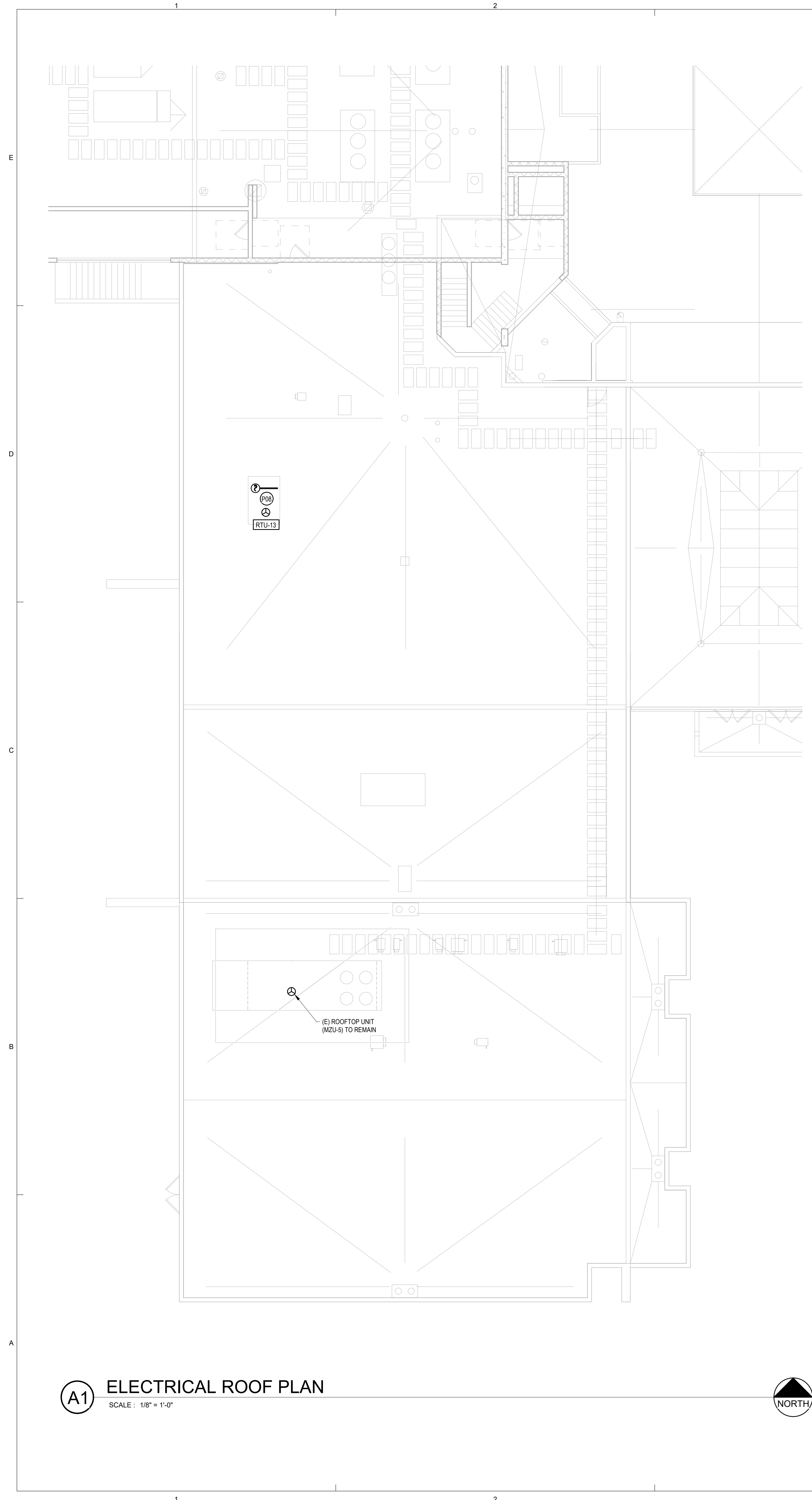
A5 KEY PLAN - PROJECT SCOPE POWER PLAN
SCALE: 1" = 40'-0"



A1 LEVEL 01 - POWER PLAN
SCALE: 1/8" = 1'-0"



ALTERNATE #4
SEE MECHANICAL
SHEET M-202
FOR LOCATION
OF UNITS.

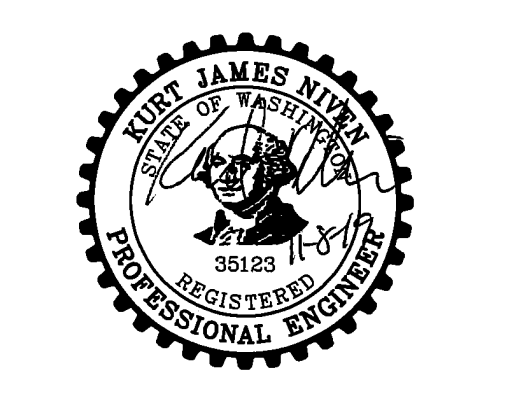


- GENERAL NOTES:**
1. ALL WORK SHALL COMPLY WITH THE MOST CURRENT EDITION OF THE NEC AS THE STATE OF WASHINGTON OR LOCAL AUTHORITY HAVING JURISDICTION.
 2. SEE MECHANICAL FOR DUCTWORK, PIPING AND DAMPER LOCATIONS.
 3. CONTRACTOR TO USE APPROPRIATE CONDUCTOR SIZES TO ENSURE VOLTAGE IS LESS THAN 3% FOR ALL CIRCUITS.
 4. SEE ARCHITECTURAL PLANS FOR FIRE SEPARATION. PROVIDE FIRE SEALANT FOR ALL PENETRATIONS.
 5. SEE ARCHITECTURAL PLANS FOR ALL SEISMIC JOINTS.
 6. CONTRACTOR SHALL COORDINATE ANY SHUT DOWN OF SYSTEMS WITH OWNER.
 7. VERIFY EXISTING CONDITIONS AS THEY APPLY TO THIS PROJECT AND INCLUDE IN BID SUFFICIENT ALLOWANCE TO COVER ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL CONDITIONS AS THEY CURRENTLY EXIST. CONTRACTOR TO FIELD VERIFY EXACT LOCATIONS OF ALL DEVICES AND PANELS REFERENCED.
 8. FIELD VERIFY AND COORDINATE EXACT PANEL LOCATION OF ALL EXTENDED AND MODIFIED CIRCUITS PRIOR TO CONSTRUCTION. VERIFY THAT THE MODIFIED CIRCUIT IS STILL BEING FED FROM THE CORRECT PANEL ASSOCIATED AND PERFORM A FUNCTIONALITY TEST OF DEVICES PRIOR TO COMPLETION.
 9. CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT DISCONNECTS AND REQUIREMENTS WITH EQUIPMENT'S MANUFACTURER AND MECHANICAL DRAWINGS. SEE SHEET E-711 FOR MECHANICAL SCHEDULES.
 10. CONTRACTOR SHALL VERIFY THE TYPE OF WALL, CEILING AND ROOF PENETRATION REQUIRED FOR EACH CONDUIT. PROVIDE CONCRETE DRILLING AS REQUIRED TO ROUTE CONDUITS.

- KEYNOTES:**
- P08 PROVIDE NEMA 3R DISCONNECT SWITCH FOR ROOF TOP UNIT RTU-13. ROUTE CONDUIT AND WIRE BACK TO PANEL P-13.5. REFER TO SHEET E-711 FOR MECHANICAL EQUIPMENT SCHEDULE AND VERIFY UNIT WITH MECHANICAL ENGINEER PRIOR TO PURCHASE.
- P09 (BID ALTERNATE) CONTRACTOR TO PROVIDE NEMA 3R DISCONNECT SWITCH FOR ROOF TOP UNIT AHU-7. THIS UNIT IS TO REPLACE THE CURRENT MZU-S ROOF TOP UNIT. ROUTE CONDUIT AND WIRE FROM NEW DISCONNECT BACK TO EXISTING CIRCUIT BREAKER FROM PANEL DSP. REFER TO SHEET E-711 FOR MECHANICAL EQUIPMENT SCHEDULE WHERE DISCONNECT, CONDUIT AND WIRE ARE LISTED. VERIFY UNIT WITH MECHANICAL ENGINEER PRIOR TO PURCHASE.

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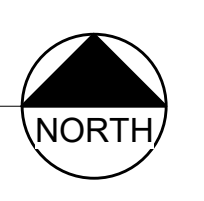
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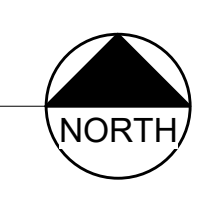
ELECTRICAL ROOF PLAN

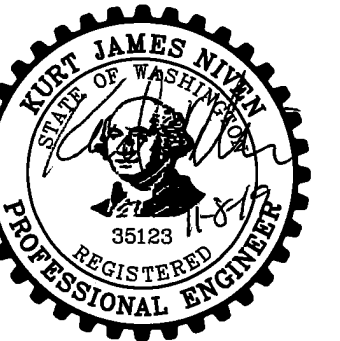
EP111

A1 ELECTRICAL ROOF PLAN
 SCALE: 1/8" = 1'-0"



A4 ELECTRICAL ROOF PLAN - ALTERNATE #4
 SCALE: 1/8" = 1'-0"





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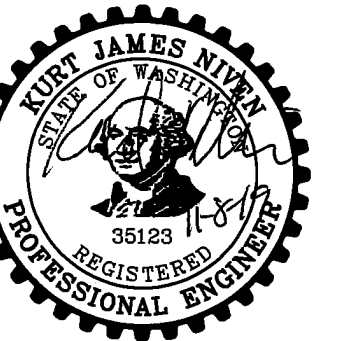
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LIGHTING SCHEDULE

TYPE	MANUFACTURER	CATALOG #	OTHER MANUFACTURER	LAMP	LUMENS OUTPUT	VA	WATTS	VOLTAGE	MOUNTING	NOTES
E A1	LITHONIA LIGHTING	TLE-2-G-EL N	SURE-LITES, EVENLIGHT	GREEN LED	0	LED 0-10V DIMMING	1 VA	1 W	120 V	AS REQUIRED GREEN LETTERING LED EXIT SIGN WITH BATTERY. SELF-DIAGNOSTICS. ENERGIZE WITH UNSWITCHED PHASE CONDUCTOR. PROVIDE SINGLE FACE. DOUBLE FACE AND ARROWS AS NEEDED. REER TO ARCHITECTURAL LIFE SAFETY PLAN FOR DIRECTION OF TRAVEL.
H A1	JLC TECH	TSSL-MW-2-24"-L"		LED/3500K	1141	LED 0-10V DIMMING	16 VA	16 W	120 V	RECESSED ALTERNATE #1 - 15/16" X 2" T-BAR LED LUMINAIRE WITH CUSTOM 4" BLOCK DIFFUSER LENS. SQUARE PROFILE LINEAR LED LUMINAIRE. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE. PROVIDE STRUCTURAL CEILING SYSTEM SHOP DRAWINGS PRIOR TO ORDERING IF ALTERNATE #1 IS TAKEN.
H C1	BARBICAN LIGHTING	#16-104-300-8H"-ACB"-HTO"-**LED3800LM40W-120V-3500K-90CRI-DB(0-10V)		LED/3500K	3800	LED 0-10V DIMMING	40 VA	40 W	120 V	PENDANT 30" DRUM LED LUMINAIRE. 8" HEIGHT WITH OPAL DIFFUSER. **COORDINATE WITH ARCHITECTURAL FINISHES FOR ACOUSTIC MATERIAL COLOR. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
H C2	BARBICAN LIGHTING	#16-104-420-10H"-ACB"-HTO"-**LED6600LM69W-120V-3500K-90CRI-DB(0-10V)		LED/3500K	7767	LED 0-10V DIMMING	69 VA	69 W	120 V	PENDANT 42" ACOUSTIC MATERIAL DRUM LED LUMINAIRE. 10" HEIGHT WITH OPAL DIFFUSER. **COORDINATE WITH ARCHITECTURAL FINISHES FOR ACOUSTIC MATERIAL COLOR. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
H D1	CDS LIGHTING	BEECH-8-BLANK-USV		LED/3500K	500	ELV	12 VA	12 W	120 V	PENDANT 7.5" CONCRETE LED DECORATIVE PENDANT.
R A1	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-4800LM-35K-80CRI-MINI-ZT-120-SWC	CORELITE, DAY-BRITE	LED/3500K	4881	LED 0-10V DIMMING	41 VA	41 W	120 V	RECESSED 2X4 RECESSED LED VOLUMETRIC LUMINAIRE. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R A1E	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-4800LM-35K-80CRI-MINI-ZT-120-SWC-E10WLCP	CORELITE, DAY-BRITE	LED/3500K	4881	LED 0-10V DIMMING	41 VA	41 W	120 V	RECESSED 2X4 RECESSED LED VOLUMETRIC LUMINAIRE. 10 WATT EMERGENCY BATTERY PACK. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R A2	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-4000LM-35K-80CRI-MINI-ZT-120-SWC	CORELITE, DAY-BRITE	LED/3500K	4077	LED 0-10V DIMMING	34 VA	34 W	120 V	RECESSED 2X4 RECESSED LED VOLUMETRIC LUMINAIRE. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R A2E	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-4000LM-35K-80CRI-MINI-ZT-120-SWC-E10WLCP	CORELITE, DAY-BRITE	LED/3500K	4077	LED 0-10V DIMMING	34 VA	34 W	120 V	RECESSED 2X4 RECESSED LED VOLUMETRIC LUMINAIRE. 10 WATT EMERGENCY BATTERY PACK. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R B1	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-4800LM-35K-80CRI-MINI-ZT-120-SWC	DAY-BRITE, CORELITE	LED/3500K	4965	LED 0-10V DIMMING	45 VA	45 W	120 V	RECESSED 2X2 RECESSED LED VOLUMETRIC LUMINAIRE. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R B2	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-4000LM-35K-80CRI-MINI-ZT-120-SWC	CORELITE	LED/3500K	4223	LED 0-10V DIMMING	37 VA	37 W	120 V	RECESSED 2X2 RECESSED LED VOLUMETRIC LUMINAIRE. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R B2E	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-4000LM-35K-80CRI-MINI-ZT-120-SWC-E10WLCP	CORELITE	LED/3500K	4223	LED 0-10V DIMMING	37 VA	37 W	120 V	RECESSED 2X2 RECESSED LED VOLUMETRIC LUMINAIRE. 10 WATT EMERGENCY BATTERY PACK. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R C1	GOTHAM LIGHTING	EVO-35-15-6AR-FL-WD-LD-120-GZ1	PORTFOLIO, LIGHTOLIER	LED/3500K	1542	LED 0-10V DIMMING	19 VA	19 W	120 V	RECESSED RECESSED 6" DOWNLIGHT, WIDE DISTRIBUTION. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R C1E	GOTHAM LIGHTING	EVO-35-15-6AR-FL-WD-LD-120-GZ1-EL	PORTFOLIO, LIGHTOLIER	LED/3500K	1542	LED 0-10V DIMMING	19 VA	19 W	120 V	RECESSED RECESSED 6" DOWNLIGHT, WIDE DISTRIBUTION. EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R C2	GOTHAM LIGHTING	EVO-35-10-6AR-FL-WD-LD-120-GZ1	PORTFOLIO, LIGHTOLIER	LED/3500K	1038	LED 0-10V DIMMING	12 VA	12 W	120 V	RECESSED RECESSED 6" DOWNLIGHT, WIDE DISTRIBUTION. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R C2E	GOTHAM LIGHTING	EVO-35-10-6AR-FL-WD-LD-120-GZ1-EL	PORTFOLIO, LIGHTOLIER	LED/3500K	1038	LED 0-10V DIMMING	12 VA	12 W	120 V	RECESSED RECESSED 6" DOWNLIGHT, WIDE DISTRIBUTION. EMERGENCY BATTERY PACK WITH INTEGRAL TEST SWITCH. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R G1	AXIS LIGHTING	BMRLD-1000-80-35-FL-6"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	8000	LED 0-10V DIMMING	78 VA	78 W	120 V	RECESSED 1" X 6" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R G2	AXIS LIGHTING	BMRLD-1000-80-35-FL-6"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	6000	LED 0-10V DIMMING	58 VA	58 W	120 V	RECESSED 1" X 6" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R H1	AXIS LIGHTING	SCR-300-80-35-FL-S13"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	3910	LED 0-10V DIMMING	42 VA	42 W	120 V	RECESSED 1.5" X 13" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R H2	AXIS LIGHTING	SCR-300-80-35-FL-10"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	3007	LED 0-10V DIMMING	33 VA	33 W	120 V	RECESSED 1.5" X 10" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R H3	AXIS LIGHTING	SCR-300-80-35-FL-6"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	1804	LED 0-10V DIMMING	20 VA	20 W	120 V	RECESSED 1.5" X 6" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R H4	AXIS LIGHTING	SCR-300-80-35-FL-S24"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	7218	LED 0-10V DIMMING	78 VA	78 W	120 V	RECESSED 1.5" X 24" RECESSED LINEAR LED LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R J1	AXIS LIGHTING	GPRLED-NL-300-80-35-RG2-7"-120-DP-1-DF	LEDALITE, PINNACLE	LED/3500K	2100	LED 0-10V DIMMING	18 VA	18 W	120 V	RECESSED 2" X 9" RECESSED LINEAR LED WALL GRAZER LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R J2	AXIS LIGHTING	GPRLED-NL-300-80-35-RG2-4"-120-DP-1-DF	LEDALITE, PINNACLE	LED/3500K	1200	LED 0-10V DIMMING	10 VA	10 W	120 V	RECESSED 2" X 4" RECESSED LINEAR LED WALL GRAZER LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R J3	AXIS LIGHTING	GPRLED-NL-300-80-35-RG2-5"-120-DP-1-DF	LEDALITE, PINNACLE	LED/3500K	1500	LED 0-10V DIMMING	13 VA	13 W	120 V	RECESSED 2" X 5" RECESSED LINEAR LED WALL GRAZER LUMINAIRE WITH FLUSH SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R K1	AXIS LIGHTING	CLKLED-400-80-35-SO-S10.5-W-120-DP-1-AC	XAL	LED/3500K	4200	LED 0-10V DIMMING	42 VA	42 W	120 V	RECESSED 4" X 10.5" ARMSTRONG DIRECT LIGHT COVE SYSTEM LUMINAIRE. FROSTED ACRYLIC LENS.
R L1	GOTHAM LIGHTING	100-5505-24R4-SS-55D-120AJGZ	PORTFOLIO, ATLANTIC LIGHTING	LED/3500K	492	LED 0-10V DIMMING	7 VA	7 W	120 V	RECESSED RECESSED 2" DOWNLIGHT, CLEAR TRIM WITH SEMI-SPECULAR FINISH. 55 DEGREE BEAM DISTRIBUTION.
R M1	LITHONIA LIGHTING	2GTL-2-40L-120-GZ10-LP835	METALUX, DAY-BRITE	LED/3500K	4007	LED 0-10V DIMMING	30 VA	30 W	120 V	RECESSED 2X4 RECESSED LED TROFFER. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R N1	LITHONIA LIGHTING	2GTL-2-33L-120-GZ10-LP835	METALUX, DAY-BRITE	LED/3500K	3401	LED 0-10V DIMMING	29 VA	29 W	120 V	RECESSED 2X4 RECESSED LED TROFFER. **COORDINATE WITH ARCHITECTURAL FLOOR PLANS FOR MOUNTING STYLE.
R P1	AXIS LIGHTING	BMRLD-500-80-35-1.25M-8"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	4000	LED 0-10V DIMMING	37 VA	37 W	120 V	RECESSED 3.5" X 8" RECESSED LINEAR LED LUMINAIRE WITH 1.25" STEPLENS LUM. ENDCAP SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R P2	AXIS LIGHTING	BMRLD-500-80-35-1.25M-4"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	2000	LED 0-10V DIMMING	18 VA	18 W	120 V	RECESSED 3.5" X 4" RECESSED LINEAR LED LUMINAIRE WITH 1.25" STEPLENS LUM. ENDCAP SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.
R P3	AXIS LIGHTING	BMRLD-500-80-35-1.25M-7"-120-DP-1-DF	PINNACLE, LUMENWERX	LED/3500K	3500	LED 0-10V DIMMING	32 VA	32 W	120 V	RECESSED 3.5" X 7" RECESSED LINEAR LED LUMINAIRE WITH 1.25" STEPLENS LUM. ENDCAP SHIELDING. DRYWALL FLANGE MOUNTING. **COORDINATE WITH ARCHITECTURAL FINISHES FOR FINISH COLOR.



**LAIR REMODEL
(BLDG 6)**

**COMMUNITY
COLLEGES
OF SPOKANE**

**FINAL BID
DOCUMENTS**

REV	DATE	DESCRIPTION
1	1/9/2020	ADD-1
2	1/15/2020	ADD-2

PROJ. NO. 2019-010

PROJECT MANAGER KJN

DATE 12/17/19

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**MECHANICAL
EQUIPMENT
SCHEDULE**

MECHANICAL EQUIPMENT SCHEDULE																							
Project No: 191424																							
Notes:										Key:													
A. FURNISHED AND INSTALLED BY DIVISION 23					F. NEMA 5-15R RECEPTACLE					FLA - FULL LOAD AMPS													
B. FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26					G. NEMA 5-20R RECEPTACLE					MCA - MINIMUM CIRCUIT AMPS													
C. FURNISHED AND INSTALLED BY DIVISION 26					H. NEMA 6-20R RECEPTACLE					VFD - VARIABLE FREQUENCY DRIVE													
D. FURNISHED BY OTHERS, INSTALLED BY DIVISION 26					I. NEMA 5-50R RECEPTACLE					HP - HORSE POWER													
E. FURNISHED AND INSTALLED BY OTHERS					J. DIRECT CONNECTION																		
UNIT ID	DESCRIPTION	LOCATION	VOLTS	PHASE	HP	LOAD (KVA)	FLA	MCA	MOOP	EMER. CKT	BREAKER		UNIT DISCONNECT		WIRES			SHORT CIRCUIT CURRENT (A)	CIRCUIT NUMBER	REMARKS			
											POLE	AMPS	POLE	AMPS	FUSE	NOTES	PHASE NO.	PHASE SZ	GND SZ	CONDUIT SIZE			
EDC-6	ROOF TOP UNIT (STUDENT GOV.)	PLENUM (LOUNGE AREA)	208	3		6.00					3	30	3	60	30		4	#4	#10	1 1/2"		P-19,21,23	PROVIDE NEMA RATED DISCONNECT SWITCH, CONDUIT AND WIRE FOR NEW UNIT
RTU-13	ROOF TOP UNIT (STUDENT GOV.)	ROOF	208	3			50.10		60		3	60	3	60	60		4	#4	#10	1 1/2"		P-1,3,5	PROVIDE NEMA 3R DISCONNECT SWITCH, CONDUIT AND WIRE FOR NEW UNIT
TU-1B	VAV TERMINAL UNIT	FOOD BANK	120	1														#10	#10	3/4"			
WH-1	ELECTRIC WATER HEATER	MEDITATION ROOM	120	2		8.32					2	40						#8	#10	1"		P-2,4	RELOCATED TO NEW FAUCET IN MEDITATION ROOM

MECHANICAL EQUIPMENT SCHEDULE (ALTERNATE)																								
Project No: 191424																								
Notes:										Key:														
A. FURNISHED AND INSTALLED BY DIVISION 23					F. NEMA 5-15R RECEPTACLE					FLA - FULL LOAD AMPS														
B. FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26					G. NEMA 5-20R RECEPTACLE					MCA - MINIMUM CIRCUIT AMPS														
C. FURNISHED AND INSTALLED BY DIVISION 26					H. NEMA 6-20R RECEPTACLE					VFD - VARIABLE FREQUENCY DRIVE														
D. FURNISHED BY OTHERS, INSTALLED BY DIVISION 26					I. NEMA 5-50R RECEPTACLE					HP - HORSE POWER														
E. FURNISHED AND INSTALLED BY OTHERS					J. DIRECT CONNECTION																			
UNIT ID	DESCRIPTION	LOCATION	VOLTS	PHASE	HP	LOAD (KVA)	FLA	MCA	MOOP	EMER. CKT	BREAKER		UNIT DISCONNECT		WIRES			SHORT CIRCUIT CURRENT (A)	CIRCUIT NUMBER	REMARKS				
											POLE	AMPS	POLE	AMPS	FUSE	NOTES	PHASE NO.	PHASE SZ	GND SZ	CONDUIT SIZE				
AHU-7	AIR HANDLING UNIT	ROOF	208	3			288.00		300		3	300	3	400	300		4	600KCM	#3	4"			REUSE EXISTING BREAKER FEEDING REMOVED MZL-5. PROVIDE A NEW NEMA 3R DISCONNECT SWITCH, CONDUIT AND WIRE NEEDED FOR NEW LOCATION FOR UNIT.	
P-1	PUMP		208	3	10		30.80	38.50			3	45	3	60	45		4	#4	#10	1 1/2"			REUSE EXISTING CIRCUIT CONDUIT FEEDING REMOVED PUMP AND REPLACE CIRCUIT BREAKER TO ACCOMMODATE NEW LOAD. PROVIDE A NEW DISCONNECT SWITCH AND WIRE FOR NEW PUMP MOTOR CIRCUIT.	
P-2	PUMP		208	3	10		30.80	38.50			3	45	3	60	45		4	#4	#10	1 1/2"			REUSE EXISTING CIRCUIT CONDUIT FEEDING REMOVED PUMP AND REPLACE CIRCUIT BREAKER TO ACCOMMODATE NEW LOAD. PROVIDE A NEW DISCONNECT SWITCH AND WIRE FOR NEW PUMP MOTOR CIRCUIT.	
TU-1A	VAV TERMINAL UNIT	WEST OFFICES	120	1														1	#10	#10	3/4"			
TU-2A	VAV TERMINAL UNIT	NORTH BOOKSTORE	120	1														1	#10	#10	3/4"			
TU-3A	VAV TERMINAL UNIT	SOUTH BOOKSTORE	120	1														1	#10	#10	3/4"			
TU-4A	VAV TERMINAL UNIT	EAST OFFICES	120	1														1	#10	#10	3/4"			
TU-5A	VAV TERMINAL UNIT	MAIN ENTERANCE	120	1														1	#10	#10	3/4"			
TU-6A	VAV TERMINAL UNIT	EAST BOOKSTORE	120	1														1	#10	#10	3/4"			
TU-7A	VAV TERMINAL UNIT	OPEN OFFICE	120	1														1	#10	#10	3/4"			
VFD-1	VARIABLE FREQUENCY DRIVE		24	1																				FOR PUMP P-1
VFD-2	VARIABLE FREQUENCY DRIVE		24	1																				FOR PUMP P-2
WH-1	ELECTRIC WATER HEATER	MEDITATION ROOM	120	2		8.32					2	40						3	#8	#10	1"		P-2,4	RELOCATED TO NEW FAUCET IN MEDITATION ROOM