

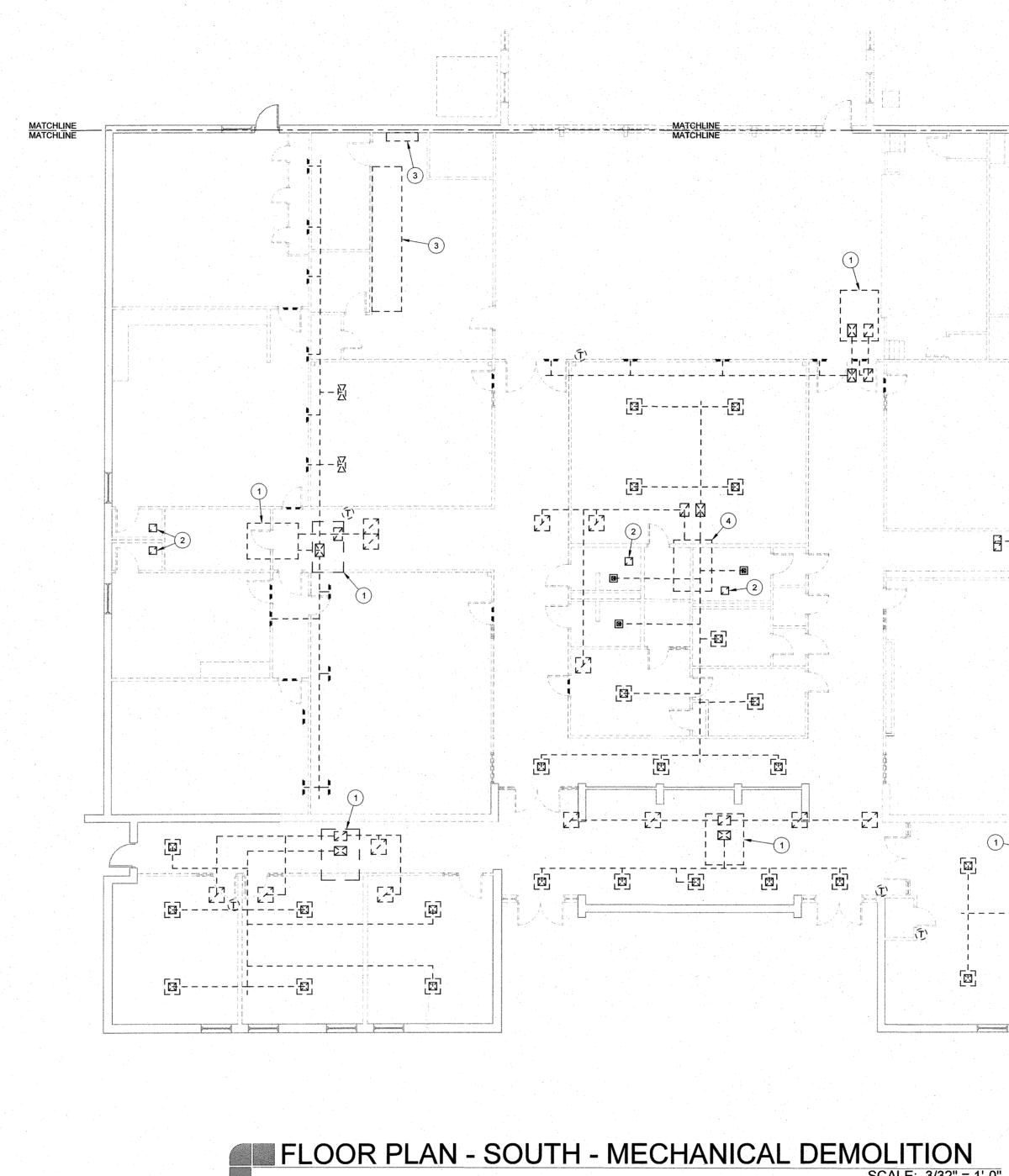




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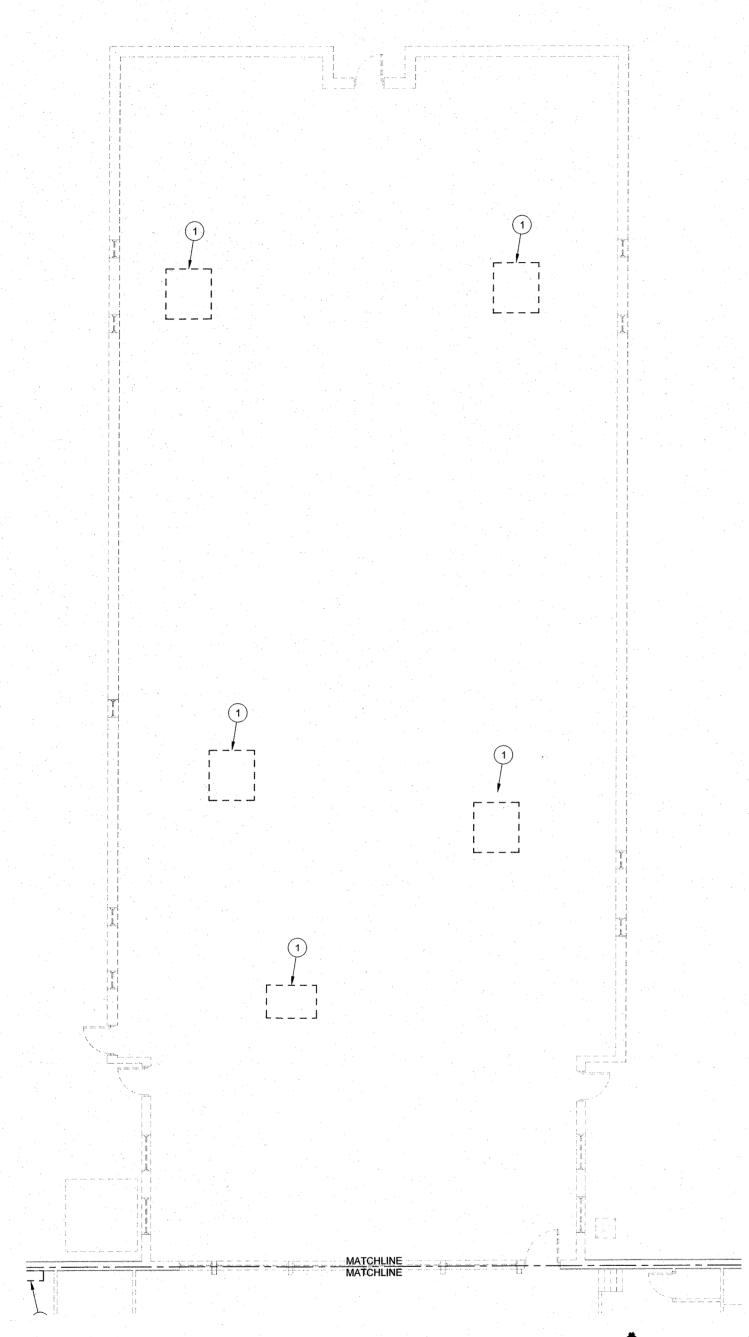
DATE: 28 JULY 2022

20864.00





\bigcirc	KEYED NOTES		GENERAL NOTES
1.	REMOVE EXISTING ROOFTOP UNIT AND ALL ASSOCIATED ITEMS, DUCTWORK, DIFFUSERS/GRILLES, PIPING, HANGERS, THERMOSTATS, WIRING, ETC. PATCH	A.	VERIFY EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, PIPING AND THERMOSTATS AT JOBSITE.
	ROOF AS REQUIRED BY ARCHITECT.	В.	CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH ARCHITECT AND OWNER.
2.	REMOVE EXISTING EXHAUST FANS AND ALL ASSOCIATED ITEMS, SHOWN DASHED.	C.	CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING
3.	REMOVE EXISTING KITCHEN HOOD AND ALL ASSOCIATED ITEMS, SHOWN DASHED. REMOVE ALL ASSOCIATED FANS AND DUCT. PATCH ROOF AS REQUIRED BY ARCHITECT.		SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
4.	REMOVE EXISTING ROOFTOP UNIT AND ALL ASSOCIATED ITEMS. MODIFY ROOF OPENING TO ACCOMMODATE NEW ROOFTOP UNIT.	D.	FOR ALL ITEMS NOTED TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS, INCLUDING ALL HANGERS, SUPPORTS, WIRING, ETC.



FLOOR PLAN - NORTH MECHANICAL DEMOLITION

SCALE: 3/32" = 1'-0"







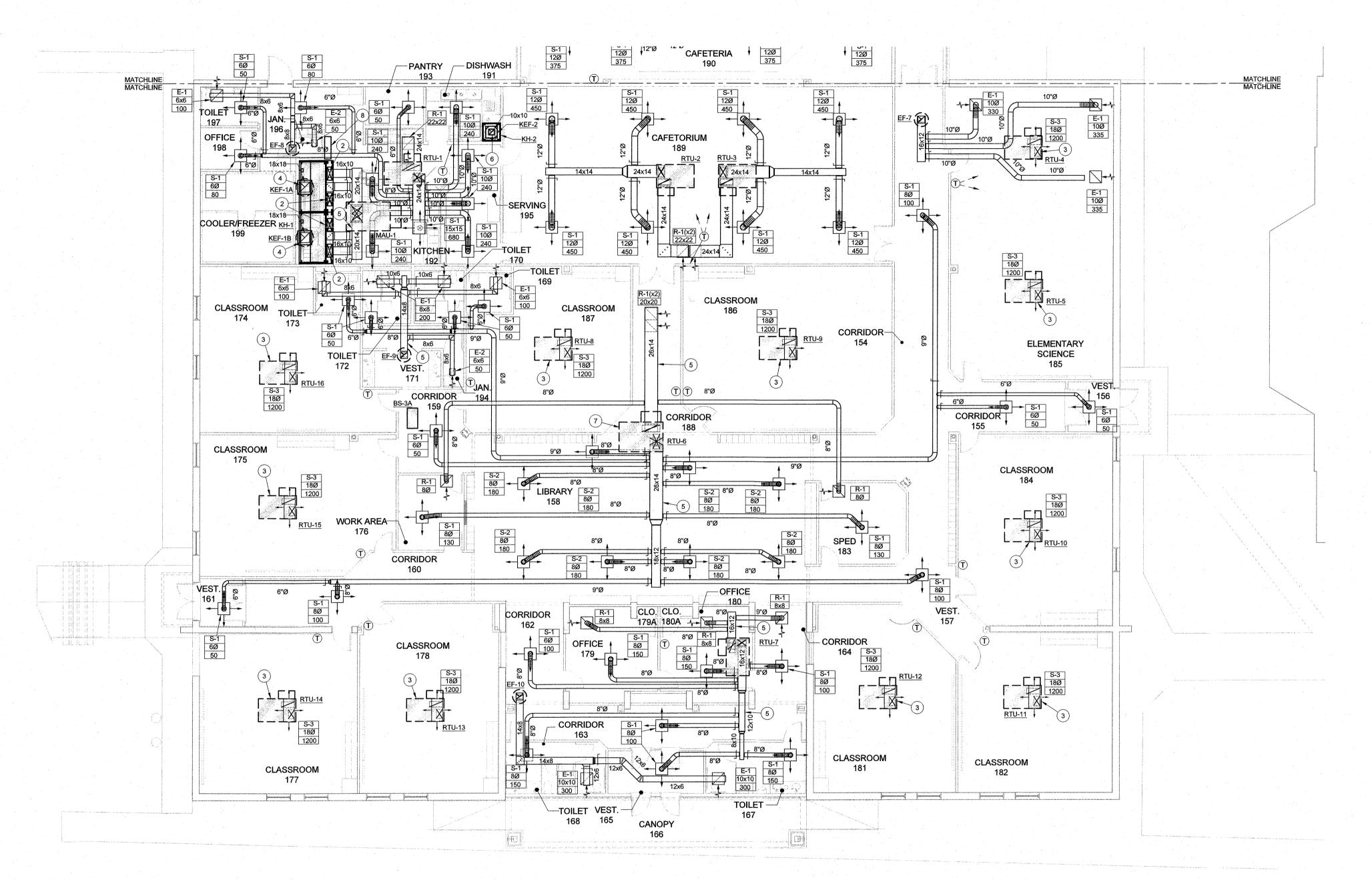


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FLOOR PLAN - ELEMENTARY - MECHANICAL

GENERAL NOTES

DISTRIBUTION DEVICES.

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR

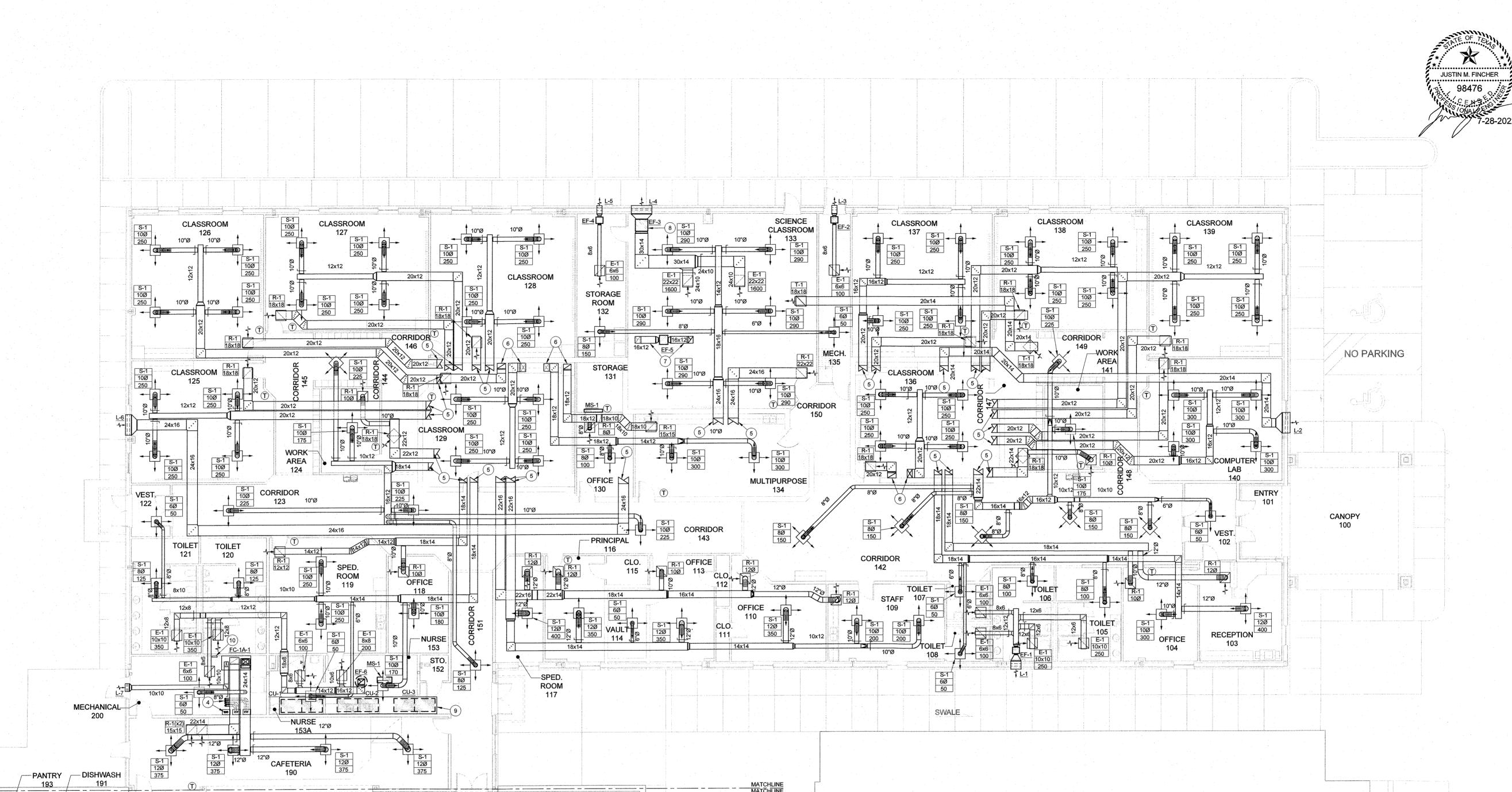
- B. LOCATE ALL THERMOSTATS A MINIMUM OF SIX INCHES FROM WALL CORNERS, DOOR FRAMES AND OTHER DEVICES. MOUNT THERMOSTATS AT 48" A.F.F. COORDINATE THE LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
- C. COORDINATE AT JOBSITE EXACT DUCT ROUTING WITH ALL EQUIPMENT, CEILINGS, LIGHTS, AND PIPING PRIOR TO INSTALLATION.
- D. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. FIELD VERIFY EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN ON LIGHTING PLAN AND REQUIRED CEILING HEIGHTS.
- E. WHEREVER THE MANUAL BALANCING DAMPERS ARE RENDERED INACCESSIBLE BEHIND NON REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DAMPERS, THE DAMPERS SHALL BE EQUAL TO YOUNG REGULATOR NO. 1200 RIGHT ANGLE WORM GEAR REGULATOR, FLEX SHAFT, AND 301-FS CONCEALED DAMPER REGULATOR WITH PRIMER COVER PLATE FOR FIELD PAINTING TO MATCH CEILING.

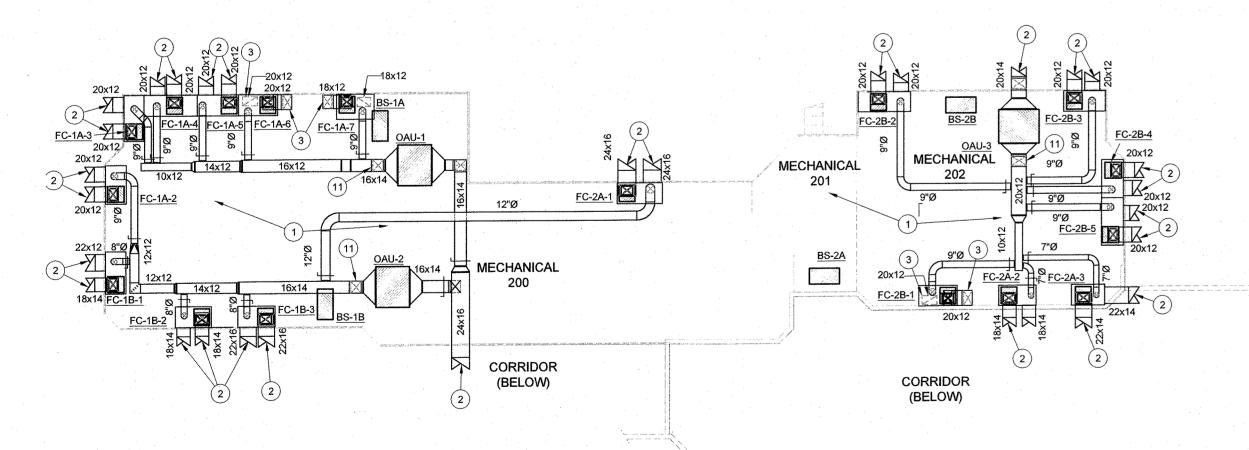
KEYED NOTES TURN OUTSIDE AIR DUCT UP THRU ROOF TO GOOSENECK. PROVIDE MBD AND MOTORIZED DAMPER IN THE

- VERTICAL. INTERLOCK MOTORIZED DAMPER WITH CORRESPONDING FC, REFER TO GOOSENECK AND CEILING CASSETTE DETAIL.
- TURN MAKE UP AIR DUCT DOWN TO CONNECT TO KITCHEN HOOD SUPPLY COLLARS. TRANSITION AS REQUIRED. S.A. AND R.A. DUCTS DOWN TO PLENUM ON CONCENTRIC DIFFUSER, S.A. AND R.A. DUCTS SIZED TO MATCH OPENING IN ROOFTOP UNIT THEN TRANSITION AT CONNECTION TO PLENUM, LOCATE UNIT ON EXISTING ROOF BY

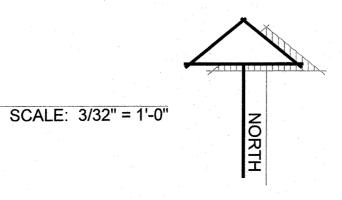
REMOVING EXISTING ROOF OUT TO EXTENTS OF CURB AND TRANSITION IN CURB AS REQUIRED, REFER TO

- KITCHEN EXHAUST GREASE DUCT DOWN TO EXHAUST COLLAR OF KITCHEN HOOD, TRANSITION AS REQUIRED. REFER TO KITCHEN FAN AND HOOD DETAILS.
- ROUTE RECTANGULAR DUCT MAINS IN JOIST SPACE. ROUTE DUCT RUNOUTS THRU JOISTS, COORDINATE DUCT ROUTING WITH STRUCTURE PRIOR TO INSTALLATION.
- DISHWASHER EXHAUST DUCT DOWN TO CONNECT TO EXHAUST COLLAR OF DISHWASHER HOOD. TRANSITION AS REQUIRED. REFER TO DISHWASHER HOOD DETAIL.
- NEW ROOFTOP LOCATED ON EXISTING ROOF OPENING, MODIFY ROOF OPENING AND INSTALL NEW CURB AS REQUIRED TO ACCOMMODATE NEW UNIT.
- 8. KH-1 ANSUL CABINET, REFER TO SHEET M404.





FLOOR PLAN - MEZZANINE- MECHANICAL



FLOOR PLAN - SECONDARY - MECHANICAL

SCALE: 3/32" = 1'-0"

GENERAL NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES.
- B. LOCATE ALL THERMOSTATS A MINIMUM OF SIX INCHES FROM WALL CORNERS, DOOR FRAMES AND OTHER DEVICES. MOUNT THERMOSTATS AT 48" A.F.F. COORDINATE THE LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
- C. COORDINATE AT JOBSITE EXACT DUCT ROUTING WITH ALL EQUIPMENT, CEILINGS, LIGHTS, AND PIPING PRIOR TO INSTALLATION.
- D. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. FIELD VERIFY EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN ON LIGHTING PLAN AND REQUIRED CEILING HEIGHTS.
- E. ALL DUCT PENETRATIONS TO ALL SHELTER WALLS AND CEILING/DECK ABOVE SHALL BE PROTECTED WITH BURGLAR BARS EQUAL TO TITUS SG-BG-FM AND INSTALLED PER MANUFACTURER REQUIREMENTS.

KEYED NOTES

- 1. MECHANICAL MEZZANINE. INSTALL ALL UNITS AND DUCTWORK IN EQUIPMENT PLATFORM IN AN ORDERLY MANNER TO MAINTAIN MAINTENANCE CLEARANCE THROUGHOUT ENTIRE AREA. MAINTAIN A 3' DEEP AND 6' TALL AREA CLEAR IN FRONT OF ALL UNITS AND A 3' WIDE AND 6' TALL WALK PATH BETWEEN ATTIC ACCESS DOOR AND ALL UNITS. INSTALL RUNOUTS SERVING ROOMS BELOW IN THE CEILING SPACE BELOW.
- DUCT CONTINUATION. REFER TO FLOOR PLAN PLAN FOR CONTINUATION.
- TURN DUCT DOWN THRU EQUIPMENT PLATFORM FLOOR/SHELTER CEILING AND INSTALL BURGLAR BARS. REFER TO GENERAL NOTE E. REFER TO FLOOR PLAN FOR CONTINUATION.
- 4. 4" CPVC COMBUSTION AIR & FLUE PIPES FROM WATER HEATER UP THRU ROOF IN CONCENTRIC ADAPTER. FLUE SHALL TERMINATE 36" ABOVE ANY OUTSIDE AIR OR COMBUSTION AIR INTAKE. PROVIDE CONCENTRIC ADAPTER AS MANUFACTURED BY EQUIPMENT MANUFACTURER.
- DUCT CONTINUATION. REFER TO MEZZANINE PLAN FOR CONTINUATION.
- 6. TURN DUCT UP THRU MEZZANINE FLOOR TO MEZZANINE LEVEL. REFER TO MEZZANINE PLAN FOR CONTINUATION.
- TURN EXHAUST DUCT DOWN TO CONNECT TO FUME HOOD. ALL DUCTS FROM HOOD UP TO FAN SHALL BE STAINLESS STEEL DUCTS WITH WELDED JOINTS. TURN DUCT UP THRU ROOF TO GOOSENECK. EXHAUST FAN SHALL BE SUSPENDED ABOVE CEILING WITH SPRING ISOLATORS.
- 8. EF-3 TO BE CONTROLLED BY LAB UTILITY CONTROLLER. REFER TO PLUMBING.
- 9. MOUNT CONDENSING UNITS ON RAISED CURB PLATFORM, REFER TO DETAIL.
- 10. VRV SYSTEM CENTRAL CONTROLLER. ALSO MOUNT OAU CONTROLLER AT THIS LOCATION.
- 11. SUSPEND OAU 36" ABOVE FLOOR OF MEZZANINE. TURN OUTSIDE AIR DUCT UP HIGH IN MEZZANINE TO MINIMUM OF 6' ABOVE FLOOR OF MEZZANINE.





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DATE: 28 JULY 2022

REVISIONS

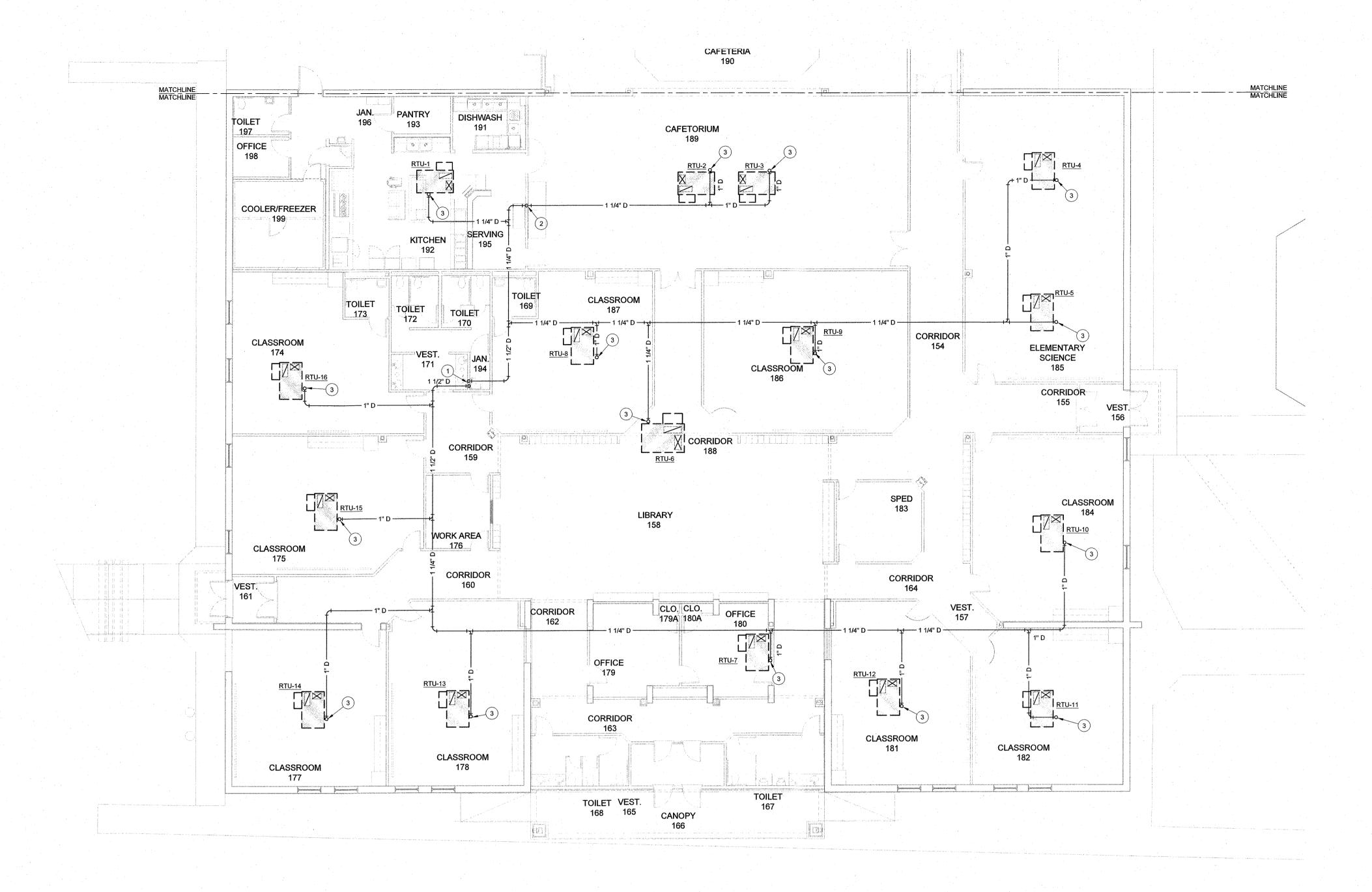
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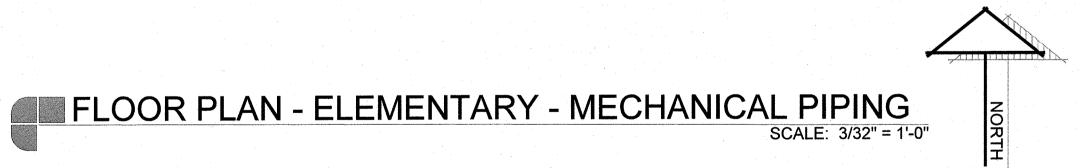
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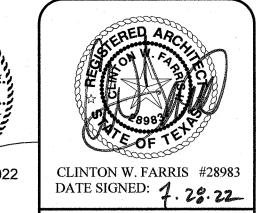
GENERAL NOTES

- A. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. FIELD VERIFY EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN ON LIGHTING PLAN AND REQUIRED CEILING HEIGHTS.
- B. PROVIDE P-TRAP ON ALL DRAIN LINES FROM EACH COOLING COIL; REFER TO DETAIL.
- C. PROVIDE P-TRAP AND CONDENSATE DRAIN LINE AT ALL ROOFTOP UNITS. REFER TO DETAIL. ALL CONDENSATE DRAIN LINES SHALL BE TYPE L COPPER WITH SOLDERED JOINTS.

KEYED NOTES

- 1. TURN TWO 1-1/2" CONDENSATE DRAIN LINES DOWN IN WALL TO 16" AFF. TURN LINE OUT WALL AND DOWN TO SPILL TO MOP BASIN WITH 1" AIR GAP. PROVIDE ESCUTCHEON AT WALL PENETRATION.
- 2. TURN CONDENSATE DRAIN LINE DOWN FROM HIGH ROOF LEVER, VERIFY EXACT ROUTING WITH EXISTING
- 3. TURN CONDENSATE DRAIN LINE UP TO THRU ROOF TO CONNECT TO ROOFTOP UNIT, REFER TO DETAIL.









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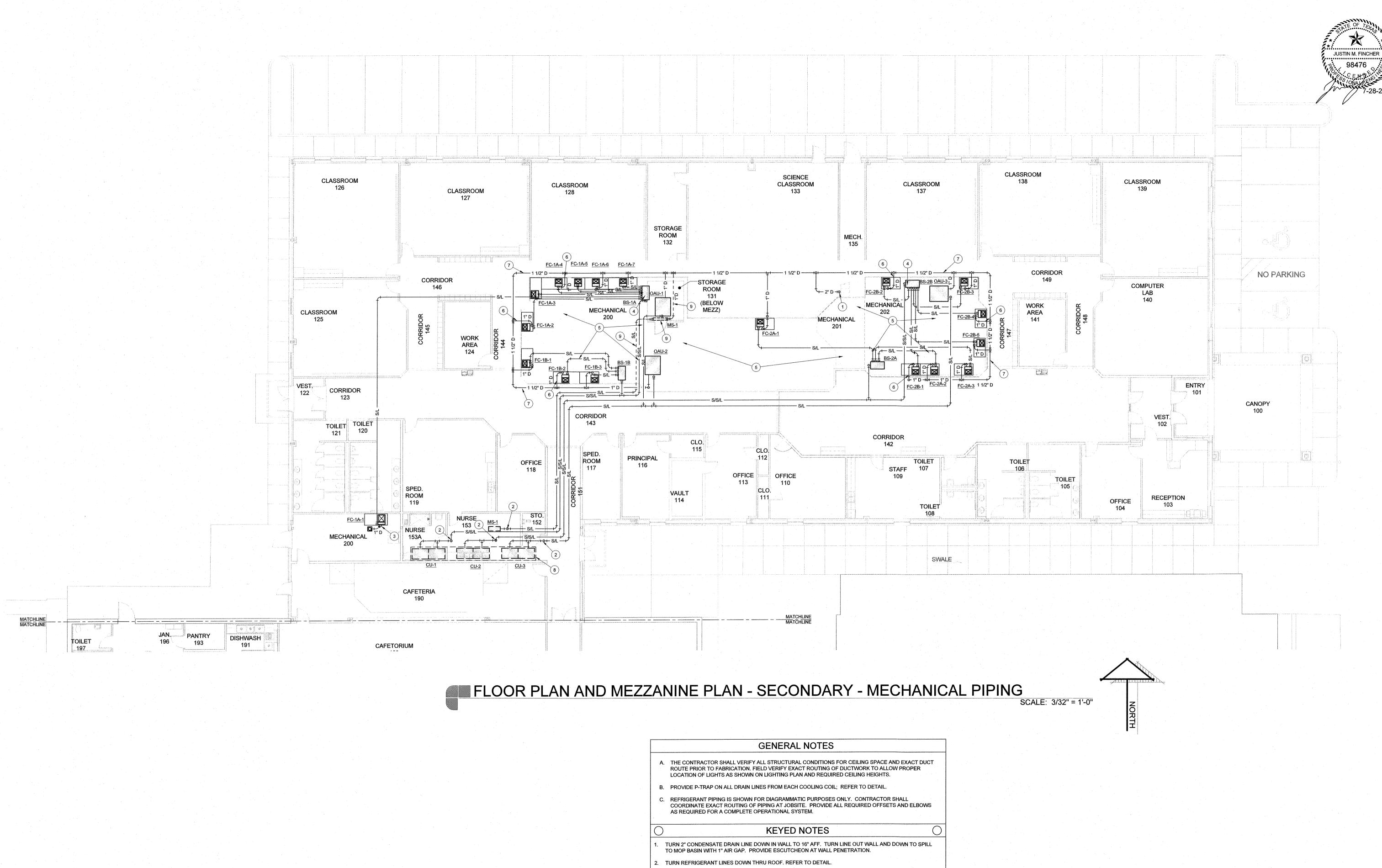
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TURN CONDENSATE DRAIN LINE DOWN FROM UNIT TO 6" A.F.F. AND ROUTE ALONG FLOOR TO SPILL TO

MECHANICAL MEZZANINE. INSTALL ALL UNITS AND PIPING IN MEZZANINE IN AN ORDERLY MANNER TO MAINTAIN MAINTENANCE CLEARANCE THROUGHOUT ENTIRE AREA. MAINTAIN A 3' DEEP AND 6' TALL AREA CLEAR IN FRONT OF ALL UNITS AND A 5' WIDE AND 6' TALL WALK PATH BETWEEN MEZZANINE ACCESS LADDER AND ALL UNITS. INSTALL ALL REFRIGERANT PIPING SHOWN ABOVE THE 6' ABOVE MEZZANINE FLOOR AND TURN UP AND DOWN FROM UNITS AND BS UNIT AS REQUIRED TO MAINTAIN

ROUTE CONDENSATE DRAIN LINE AROUND PERIMETER OF MEZZANINE TO KEEP MEZZANINE FLOOR CLEAR. ATTACH DRAIN LINE TO MEZZANINE WALL/HANDRAIL SUPPORTS AS IT WRAPS AROUND

MOUNT CONDENSING UNITS ON NEW ADDITION ROOF WITH NEW CURB/PLATFORM, REFER TO DETAIL.

WALL MOUNTED MINI SPLIT LOCATED BELOW MEZZANINE IN STORAGE ROOM 131. REFRIGERANT LINES AND CONDENSATE DRAIN LINES SHOWN DASHED SHALL BE LOCATED IN CEILING SPACE BELOW

MEZZANINE AND MAINTAINS MINIMUM 1/8" PER FOOT DOWNWARD SLOPE TOWARDS THE TURN DOWN TO

TURN THE S/S/L AND ALL UNIT S/L REFRIGERANT LINES DOWN TO CONNECT TO BRANCH SELECTOR.

FLOOR DRAIN. SECURE TO FLOOR USING PIPE CLAMPS AND UNISTRUT.

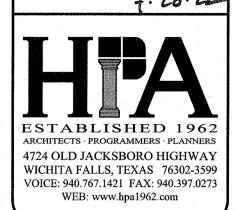
. 1" CONDENSATE DRAIN UNIT TO SERVE INDOOR UNIT, TYPICAL OF ALL UNITS.

THAT CLEARANCE.

MOP SINK.

MEZZANINE.

PREDIANCE PROPERTY AND ARCHIVES AND ARCHIVES





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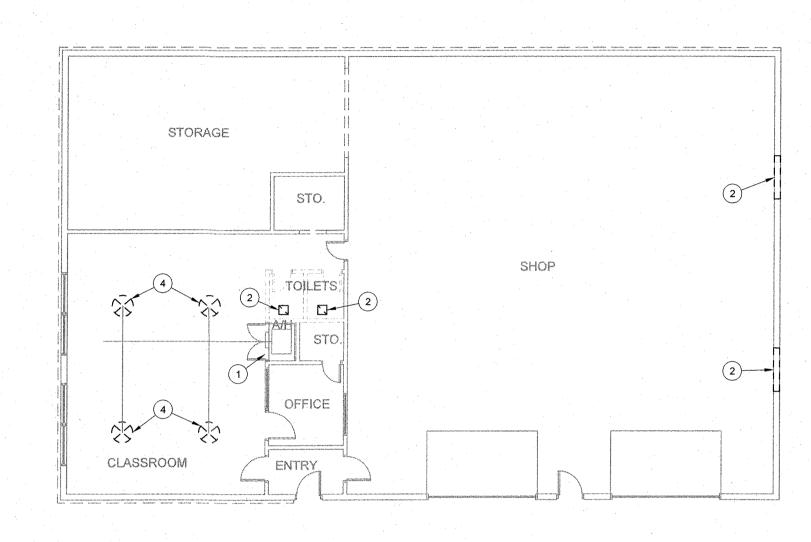
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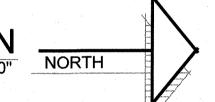
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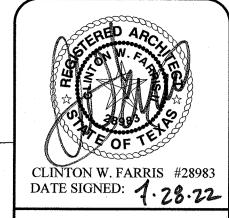
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FLOOR PLAN - AG BUILDING - MECHANICAL DEMOLITION
SCALE: 3/32" = 1'-0"
NORTH











FLOOR PLAN - AG BUILDING - MECHANICAL

SCALE: 3/32" = 1'-0"

NORTH

SHOP AG105

STO. AG107

GENERAL NOTES

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES.
- B. LOCATE ALL THERMOSTATS A MINIMUM OF SIX INCHES FROM WALL CORNERS, DOOR FRAMES AND OTHER DEVICES. MOUNT THERMOSTATS AT 48" A.F.F. COORDINATE THE LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION.
- C. COORDINATE AT JOBSITE EXACT DUCT ROUTING WITH ALL EQUIPMENT, CEILINGS, LIGHTS, AND PIPING PRIOR TO INSTALLATION.
- D. THE CONTRACTOR SHALL VERIFY ALL STRUCTURAL CONDITIONS FOR CEILING SPACE AND EXACT DUCT ROUTE PRIOR TO FABRICATION. FIELD VERIFY EXACT ROUTING OF DUCTWORK TO ALLOW PROPER LOCATION OF LIGHTS AS SHOWN ON LIGHTING PLAN AND REQUIRED CEILING HEIGHTS.

KEYED NOTES

- 1. EXISTING UNIT TO REMAIN.
- 2. REMOVE EXISTING EXHAUST FAN, SHOWN DASHED AND ASSOCIATED LOUVER. MODIFY OPENING AS REQUIRED
- TO ACCOMMODATE NEW LOUVER.
- 3. EXHAUST DUCT UP THRU ROOF TO ROOF CAP EQUAL TO GREENHECK GRS-6.
- 4. REMOVE EXISTING SUPPLY DIFFUSERS, SHOWN DASHED.
- 5. CONNECT NEW SUPPLY DIFFUSERS TO EXISTING SUPPLY DUCT RUNOUTS, TRANSITION AS REQUIRED. FIELD VERIFY AND MATCH NECKSIZE OF EXISTING DIFFUSER AND BALANCE AIRFLOW TO MATCH EXISTING.

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REVISIONS DESCRIPTION

	:						VRV SYSTI	EMS SCHEDULE				
		: :					CONDI	ENSING UNITS				
			CAPACIT	Y (BTUH)	DESIGN CO	NDITIONS	ELECTRICAL		EFFICIENCY	(NON DUCTED/DUCTED)	-	
MARK	TYPE	SERVES	COOLING	HEATING	COOLING DRY BULB	HEATING DRY BULB	DATA	EER	IEER	COP 47	COP 17	EXAMPLE: DAIKIN
CU-1	HEAT RECOVERY	CLASSROOMS	318,908	301,894	102 DEG F	0 DEG F	208V, 3 PH, 60 Hz	9.9/9.5	20/17.3	3.53/3.2	2.12/2.05	REYQ336XATJA
CU-2	HEAT RECOVERY	CLASSROOMS	265,542	281,779	102 DEG F	0 DEG F	208V, 3 PH, 60 Hz	11/10.3	21/17.9	3.51/3.2	2.2/2.06	REYQ288XATJA
CU-3	HEAT PUMP	OUTDOOR AIR UNITS	270,937	241,272	102 DEG F	0 DEG F	208V, 3 PH, 60 Hz	10.5/10.1	20.1/19.6	3.25/3.3	2.07/2.13	RXYQ288XATJA

1. MANUFACTURER MUST BE CERTIFIED, LISTED, AND LABELED PER AHRI 1230

2. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDTIONS FOR COOLING AND FOR HEATING

3. SYSTEM MUST PROVIDE CONTINUOUS HEATING DURING DEFROST AND OIL RETURN. SYSTEMS WITHOUT THIS CAPABILITY MUST BE DE-RATED TO ACCOUNT FOR HEATING LOST DURING DEFROST CYCLE AND UNIT

4. MANUFACTURER MUST HAVE PUBLISHED CONTINUOUS PERFORMANCE RATING DATA AT LEAST 120F AND -4F TO ENSURE PERFORMANCE DURING EXTREME CONDITIONS

5. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS

6. CONDENSING UNITS MUST HAVE AUTO CHANGEOVER FUNCTIONS

7. ALL MODE CHANGEOVER DEVICES AND FCU REFRIGERANT CONTROLS SHALL BE VIA ELECTRONIC EXPANSION VALVES (EEVS) WITH 2000:1 THROTTLING RANGE

8. EEV ACTUATORS MUST BE REMOVABLE FROM VALVE BODY WITHOUT DISTURBING THE REFRIGERANT SYSTEM

9. SYSTEMS USING SOLENOID CONTROL VALVES MUST INCLUDE FULL PORT ISOLATION VALVES AND AFTER REFRIGERATION CONTROL BOX AND ACOUSTIC TREATMENT TO PROVIDE NO GREATER THAN NC20 IN THE OCCUPIED MODE

10. CONDENSING UNITS MUST BE FURNISHED WITH PROTECTIVE COIL COATING TO WITHSTAND ASTM B117 SALT SPRAY TEST FOR A MINIMUM OF 2500 HOURS. PERFORMANCE OF SYSTEM MUST BE DE-RATED FOR COIL COATING

11. SYSTEM SHALL BE PROVIDED WITH I-TOUCH MANAGER CONTROLLER WITH WEB BASED SOFTWARE FOR DISPLAYING UP TO 8 D111 -NET SSTEMS WITH 128 INDOOR UNITS PER SYSTEM. PC BY OTHERS. REFER TO SPECIFICATIONS. 12. MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS AND REFRIGERANT VOLUME

13. SUBSTITUE MANUFACTURERS SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT

14. CONTRACTOR TO VERIFY PIPING DIMENSIONS

15. INSTALLING CONTRACTOR MUST HAVE SUCCESSFULLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION CLASS WITHIN PAST 36 MONTHS

16. CONTRACTOR TO FURNISH AND INSTALL INSUALTION ON REFRIGERANT PIPING

17. CONDENSING UNIT SHALL PROVIDE AUTO CHARGING AND INDOOR UNIT AUTO ADDRESSING CAPABILITY

18. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTS ON ALL FCU'S, CONDENSING UNITS, MODE CHANGEOVER DOVICES AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE

					IN	DOOR UNITS				
MADIC	SERVES	TYPE		FAN DATA		ELECTRICAL DATA	COOLING	G CAPACITY	HEATING CAPAC	ITYEXAMPLE (DAIKIN)
MARK	SERVES	ITPE	CFM	O.A. CFM	ESP	ELECTRICAL DATA	TOTAL (BTUH)	SENSIBLE (BTUH)	(BTUH)	
FC-1A-1	CAFETERIA 190	MULTI POSITION AIR HANDLER	1600	200	0.5"	208V, 1 PH, 60 Hz	45470	31164	56000	FXTQ48TAVJUA
FC-1A-2	CLASSROOM 125	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28331	20310	35300	FXTQ30TAVJUA
FC-1A-3	CLASSROOM 126	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28331	20310	35300	FXTQ30TAVJUA
FC-1A-4	CLASSROOM 127	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28331	20310	35300	FXTQ30TAVJUA
FC-1A-5	CLASSROOM 128	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28331	20310	35300	FXTQ30TAVJUA
FC-1A-6	CLASSROOM 129	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28331	20310	35300	FXTQ30TAVJUA
FC-1A-7	MULTIPURPOSE 134	MULTI POSITION AIR HANDLER	750	200	0.5"	208V, 1 PH, 60 Hz	22735	16136	28000	FXTQ24TAVJUA
FC-1B-1	CORRIDOR/WORK AREA 124	MULTI POSITION AIR HANDLER	1200	125	0.5"	208V, 1 PH, 60 Hz	34077	23096	41500	FXTQ36TAVJUA
FC-1B-2	OFFICE/NURSE 153	MULTI POSITION AIR HANDLER	1200	125	0.5"	208V, 1 PH, 60 Hz	34077	23096	41500	FXTQ36TAVJUA
FC-1B-3	OFFICES/PRINCIPAL 116	MULTI POSITION AIR HANDLER	1900	150	0.5"	208V, 1 PH, 60 Hz	56761	39422	70600	FXTQ60TAVJUA
FC-2A-1	SCIENCE CLASSROOM 133	MULTI POSITION AIR HANDLER	1940	400	0.5"	208V, 1 PH, 60 Hz	56761	39422	70600	FXTQ60TAVJUA
FC-2A-2	OFFICES/RECEPTION 103	MULTI POSITION AIR HANDLER	1200	100	0.5"	208V, 1 PH, 60 Hz	34077	23096	41500	FXTQ36TAVJUA
FC-2A-3	CORRIDOR/WORK AREA 141	MULTI POSITION AIR HANDLER	1200	100	0.5"	208V, 1 PH, 60 Hz	34077	23096	41500	FXTQ36TAVJUA
FC-2B-1	CLASSROOM 136	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28404	21052	35300	FXTQ30TAVJUA
FC-2B-2	CLASSROOM 137	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28404	21052	35300	FXTQ30TAVJUA
FC-2B-3	CLASSROOM 138	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28404	21052	35300	FXTQ30TAVJUA
FC-2B-4	CLASSROOM 139	MULTI POSITION AIR HANDLER	1000	200	0.5"	208V, 1 PH, 60 Hz	28404	21052	35300	FXTQ30TAVJUA
FC-2B-5	COMPUTER LAB 140	MULTI POSITION AIR HANDLER	1200	200	0.5"	208V, 1 PH, 60 Hz	34077	23096	41500	FXTQ36TAVJUA
OAU-1	FC UNITS	OA PROCESSING UNIT	1000	1000	0.5"	208V, 1 PH, 60 Hz	86000	52000	59000	FXMQ96MFVJU
OAU-2	FC UNITS	OA PROCESSING UNIT	1000	1000	0.5"	208V, 1 PH, 60 Hz	86000	52000	59000	FXMQ96MFVJU
OAU-3	FC UNITS	OA PROCESSING UNIT	1200	1200	0.5"	208V, 1 PH, 60 Hz	86000	52000	59000	FXMQ96MFVJU

1. PROVIDE ALL UNITS WITH THERMOSTAT EQUAL TO BRC1E73. INCLUDING OA UNITS. LOCATE OAU CONTROLLER IN MECH ROOM ADJACENT TO CENTRAL CONTROLLER

					BRANCH SELEC	CTORS	
MARK	SERVES	ELECTRICAL DATA	BRANCHES	EXAMPLE			
BS-1A	CU-1	208V, 1 PH, 60 Hz	8	BS8Q54TVJ			
BS-1B	CU-1	208V, 1 PH, 60 Hz	6	BS6Q54TVJ			
BS-2A	CU-2	208V, 1 PH, 60 Hz	6	BS6Q54TVJ			
BS-2B	CU-2	208V, 1 PH, 60 Hz	6	BS6Q54TVJ			
NOTES:							

1. NO DRAIN PIPING NEEDED

2. STANDARD LIMITED WARRANTY: 10-YEAR WARRANTY ON ALL PARTS

3. PROVIDE BRANCH SELECTOR WITH BRANCH SELECTOR 2-PORTS JOINT KITS EQUAL TO KHRP26A2ROT AS REQUIRED 4. PROVIDE ALL BRANCH SELECTORS WITH BRANCH SELECTOR CLOSED PIPE KIT EQUAL TO KHFP26A100C AS REQUIRED

5. PROVIDE FULL PORT ISOLATION VALVES AT ALL S/L AND S/S/L PIPING CONNECTIONS TO ALL BRANCH SELECTORS.

MEC	HANICAL LEGEND
SYMBOL	DESCRIPTION
FC	FAN COIL UNIT
VRV	VARIABLE REFRIGERANT VOLUME
MAU	MAKEUP AIR UNIT
KH	KITCHEN HOOD
KEF	KITCHEN EXHAUST FAN
RTU	ROOF TOP UNIT
EF	EXHAUST FAN
CFM	CUBIC FEET PER MINUTE
RPM	REVOLUTIONS PER MINUTE
BTUH	BRITISH THERMAL UNITS PER HOUR
MBH	BTUH X 1000
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
PD	PRESSURE DROP
SP	STATIC PRESSURE
ESP	EXTERNAL STATIC PRESSURE
HP	HORSEPOWER
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
DB	DRY BULB TEMPERATURE
WB	WET BULB TEMPERATURE
OA .	OUTSIDE AIR
RA	RETURN AIR
SA SA	SUPPLY AIR
EA	EXHAUST AIR
У	MANUAL BALANCING DAMPER
1	THERMOSTAT
- E2	SUPPLY DIFFUSER WITH PATTERN
	EXHAUST REGISTER
	RETURN GRILLE
Y IX	SUPPLY DUCT - CROSS SECTION
У ПД	EXHAUST DUCT - CROSS SECTION
V 117	RETURN DUCT - CROSS SECTION
	RETURN DOCT - CROSS SECTION
	ELBOW TURNED DOWN
	ELBOW TURNED UP
	SLOPE DOWN IN DIRECTION OF ARROW
D	CONDENSATE DRAIN LINE
S/L	REFRIGERANT SUCTION AND LIQUID PIPING (TWO LINES WITH SINGLE LINE SHOWN FOR CLARITY)
S/S/L	VRF REFRIGERANT SUCTION, LIQUID, AND HOT GAS SUCTION LINES (SHOWN AS SINGL LINE FOR CLARITY)
DIFF X-# X"	USER/GRILLE LABEL AIR DISTRIBUTION TYPE NECK SIZE

		-	-		RC	OF TO	P UNIT SC	HEDULE	(GAS H	EAT)		
MARK		FAN DA	TA			cod	DLING DATA		HEATIN	NG DATA	ELECTRICAL DATA	EVANDI E: DAIKINI
IVIARA	CFM	MIN. O.A.	ESP	HP	SENSIBLE	TOTAL	EAT (DB/WB)	SEER/EER	OUTPUT	INPUT	ELECTRICAL DATA	EXAMPLE: DAIKIN
RTU-1	2300	500	0.7	1.2	48.1	67.3	80.0°F/67°F	/12.1	112.0	150.0	208V, 3Ø, 60 Hz	DRG072
RTU-2	1800	350	0.7	1.0	41.0	55.5	80.0°F/67°F	16.5/	105.0	140.0	208V, 3Ø, 60 Hz	DRG060
RTU-3	1800	350	0.7	1.0	41.0	55.5	80.0°F/67°F	16.5/	105.0	140.0	208V, 3Ø, 60 Hz	DRG060
RTU-4	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-5	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-6	2400	500	0.7	1.2	48.1	67.3	80.0°F/67°F	/12.1	112.0	150.0	208V, 3Ø, 60 Hz	DRG072
RTU-7	1000	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-8	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-9	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-10	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-11	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-12	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-13	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-14	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-15	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
RTU-16	1200	200	0.7	0.75	25.1	33.7	80.0°F/67°F	17.0/	86.3	115.0	208V, 3Ø, 60 Hz	DRG036
NOTEO												

1. ALL SELECTIONS BASED ON ARI 210/240 RATINGS AT JOBSITE ELEVATION. 2. COOLING COIL VELOCITY SHALL BE 500 FPM OR LESS.

3. SENSIBLE AND TOTAL CAPACITIES ARE EXPRESSED IN MBTUH.

4. AMBIENT TEMPERATURE IS 100° F. 5. ROOFTOP UNIT SHALL BE SECURED TO ROOF CURB.6. PROVIDE EACH UNIT WITH THE FOLLOWING:

a. LOW AMBIENT KIT DOWN TO 0°F.

 b. BELT DRIVE MOTORS. c. HINGED ACCESS PANELS.

d. PLEATED MERV 7 FILTERS. e. DUAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF.
f. FIELD INSTALLED HAIL GUARD.

			,	EXH	AUST FAN SCHEI	DULE	
CFM	SP	RPM	MOTOR	DRIVE	ELECTRICAL DATA	TYPE	EXAMPLE
700	0.4	1211	149 W	DIRECT	115 V, 1 Ø, 60 Hz	INLINE	GREENHECK CSP-A700-VG
100	0.4	1182	23 W	DIRECT	115 V, 1 Ø, 60 Hz	INLINE	GREENHECK CSP-A390-VG
3200	0.4	909	1 HP	DIRECT	115 V, 1 Ø, 60 Hz	INLINE	GREENHECK SQ-18-M2-VG
100	0.4	1182	23 W	DIRECT	115 V, 1 Ø, 60 Hz	INLINE	GREENHECK CSP-A390-VG
1100	0.7	1233	1/3 HP	DIRECT	115 V, 1 Ø, 60 Hz	U.V.S	GREENHECK USF-13-B2
1100	0.6	1033	1/2 HP	DIRECT	115 V, 1 Ø, 60 Hz	P.R.V.	GREENHECK G-140-VG
1000	0.6	991	1/4 HP	DIRECT	115 V, 1 Ø, 60 Hz	P.R.V.	GREENHECK G-130-VG
100	0.4	930	1/4 HP	DIRECT	115 V, 1 Ø, 60 Hz	P.R.V.	GREENHECK G-097-VG
600	0.6	1646	1/6 HP	DIRECT	115 V, 1 Ø, 60 Hz	P.R.V.	GREENHECK G-095-VG
600	0.6	1646	1/6 HP	DIRECT	115 V, 1 Ø, 60 Hz	P.R.V.	GREENHECK G-095-VG
1200	0.1	817	1/2 HP	DIRECT	115 V, 1 Ø, 60 Hz	PROP	GREENHECK SE1-16-426-VG
1200	0.1	817	1/2 HP	DIRECT	115 V, 1 Ø, 60 Hz	PROP	GREENHECK SE1-16-426-VG
100	0.3	1184	26 W	DIRECT	115 V, 1 Ø, 60 Hz	CEILING	GREENHECK SP-A190
	700 100 3200 100 1100 1100 1000 100 600 600 1200	700 0.4 100 0.4 3200 0.4 100 0.4 1100 0.7 1100 0.6 1000 0.6 100 0.4 600 0.6 600 0.6 1200 0.1 1200 0.1	700 0.4 1211 100 0.4 1182 3200 0.4 909 100 0.4 1182 1100 0.7 1233 1100 0.6 1033 1000 0.6 991 100 0.4 930 600 0.6 1646 600 0.6 1646 1200 0.1 817 1200 0.1 817	700 0.4 1211 149 W 100 0.4 1182 23 W 3200 0.4 909 1 HP 100 0.4 1182 23 W 1100 0.7 1233 1/3 HP 1100 0.6 1033 1/2 HP 1000 0.6 991 1/4 HP 100 0.4 930 1/4 HP 600 0.6 1646 1/6 HP 600 0.6 1646 1/6 HP 1200 0.1 817 1/2 HP 1200 0.1 817 1/2 HP	CFM SP RPM MOTOR DRIVE 700 0.4 1211 149 W DIRECT 100 0.4 1182 23 W DIRECT 3200 0.4 909 1 HP DIRECT 100 0.4 1182 23 W DIRECT 1100 0.7 1233 1/3 HP DIRECT 1100 0.6 1033 1/2 HP DIRECT 1000 0.6 991 1/4 HP DIRECT 100 0.4 930 1/4 HP DIRECT 600 0.6 1646 1/6 HP DIRECT 600 0.6 1646 1/6 HP DIRECT 1200 0.1 817 1/2 HP DIRECT	CFM SP RPM MOTOR DRIVE ELECTRICAL DATA 700 0.4 1211 149 W DIRECT 115 V, 1 Ø, 60 Hz 100 0.4 1182 23 W DIRECT 115 V, 1 Ø, 60 Hz 3200 0.4 909 1 HP DIRECT 115 V, 1 Ø, 60 Hz 100 0.4 1182 23 W DIRECT 115 V, 1 Ø, 60 Hz 1100 0.7 1233 1/3 HP DIRECT 115 V, 1 Ø, 60 Hz 1100 0.6 1033 1/2 HP DIRECT 115 V, 1 Ø, 60 Hz 100 0.6 991 1/4 HP DIRECT 115 V, 1 Ø, 60 Hz 100 0.4 930 1/4 HP DIRECT 115 V, 1 Ø, 60 Hz 600 0.6 1646 1/6 HP DIRECT 115 V, 1 Ø, 60 Hz 600 0.6 1646 1/6 HP DIRECT 115 V, 1 Ø, 60 Hz 1200 0.1 817 1/2 HP DIRECT 115 V, 1 Ø, 60 Hz 1200 0.1 8	700 0.4 1211 149 W DIRECT 115 V, 1 Ø, 60 Hz INLINE 100 0.4 1182 23 W DIRECT 115 V, 1 Ø, 60 Hz INLINE 3200 0.4 909 1 HP DIRECT 115 V, 1 Ø, 60 Hz INLINE 100 0.4 1182 23 W DIRECT 115 V, 1 Ø, 60 Hz INLINE 1100 0.7 1233 1/3 HP DIRECT 115 V, 1 Ø, 60 Hz U.V.S 1100 0.6 1033 1/2 HP DIRECT 115 V, 1 Ø, 60 Hz P.R.V. 1000 0.6 991 1/4 HP DIRECT 115 V, 1 Ø, 60 Hz P.R.V. 100 0.4 930 1/4 HP DIRECT 115 V, 1 Ø, 60 Hz P.R.V. 600 0.6 1646 1/6 HP DIRECT 115 V, 1 Ø, 60 Hz P.R.V. 600 0.6 1646 1/6 HP DIRECT 115 V, 1 Ø, 60 Hz P.R.V. 1200 0.1 817 1/2 HP DIRECT 115 V, 1 Ø, 60 Hz<

 ALL SELECTIONS BASED ON JOBSITE ELEVATION. 2. SELECT ALL FAN WITH SPEED CONTROLLER.

				AIR D	ISTRIBUTION S	SCHEDULE				
MARK	TYPE	LOCATION	FRAME	FINISH	EXAMPLE			 		
S-1	SUPPLY	CEILING	TB	WHITE	TITUS OMNI, 24x24	:		 		
S-2	SUPPLY	CEILING	PF	WHITE	TITUS OMNI, 24x24			 		
S-3	SUPPLY	CEILING	ТВ	WHITE	TITUS CSR-P, 48x24					
R-1	RETURN	CEILING	ТВ	WHITE	TITUS PAR, 24x24					
E-1	EXHAUST	CEILING	TB	WHITE	TITUS PAR, 24x24					
E-2	EXHAUST	CEILING	ТВ	WHITE	TITUS PAR, 12x12					

1. OBD = OPPOSED BLADE DAMPER

3. PF = PLASTER FRAME (EQUAL TO TITUS RAPID MOUNT)

T-1 TRANSFER CEILING TB

 ALL SELECTIONS BASED ON JOBSITE ELEVATION. 2. TOTAL CAPACITIES ARE EXPRESSED IN MBTUH.

4. PROVIDE WITH WALL MOUNTED THERMOSTAT.
5. PROVIDE UNIT WITH CONDENSATE PUMP.

3. AMBIENT TEMPERATURE IS 100°F.

4. TB = LAY-IN T-BAR

				LOUVER	SCHEDU	L E	
MARK	FREE AREA	DIMENSION	SERVES	TYPE	FRAME	EXAMPLE	
L-1	1.89 SQ. FT.	24" W X 24" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-2	3.96 SQ. FT.	48" W X 24" H	O.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-3	0.31 SQ. FT.	12" W X 12" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-4	3.96 SQ. FT.	48" W X 24" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-5	0.31 SQ. FT.	12" W X 12" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-6	3.96 SQ. FT.	48" W X 24" H	O.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-7	1.38 SQ. FT.	18" W X 24" H	O.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-8	3.18 SQ. FT.	30" W X 30" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	
L-9	3.18 SQ. FT.	30" W X 30" H	E.A.	DRAINABLE	FLANGE	RUSKIN ELF6375DX	

TITUS PAR, 24x24

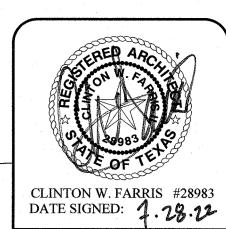
PROVIDE INSIDE BIRDSCREEN WITH ALL EXHAUST LOUVERS AND INSECT SCREEN ON ALL INTAKE LOUVERS.
 LOUVER CONSTRUCTION SHALL BE ALUMINUM.

3. LOUVER SHALL BE FACTORY FINISHED WITH KYNAR. COLOR SHALL BE SELECTED FROM FACTORY STANDARD COLORS BY ARCHITECT.

MINI SPLIT SCHEDULE (COOLING ONLY)

				INDOOR UNIT					OUTDOOR UNIT	
MARK	FAN DATA	COO DA		ELECTRICAL	EXAMPLE:	CAPACITY	REFRIGERANT	EXAMPLE:		
IVIAIXIX	S.A. CFM	TOTAL	SEER	DATA	LANIVIP LL.	CALACITI	LINE SIZES	LXXIVII LL.		
MS-1	400	10.0	19.0	208 V, 1 Ø, 60 Hz	DAIKIN FTK12NMVJURK	10.0 MBTUH	3/8 S, 1/4 L	DAIKIN RK12NMVJU		
11075										



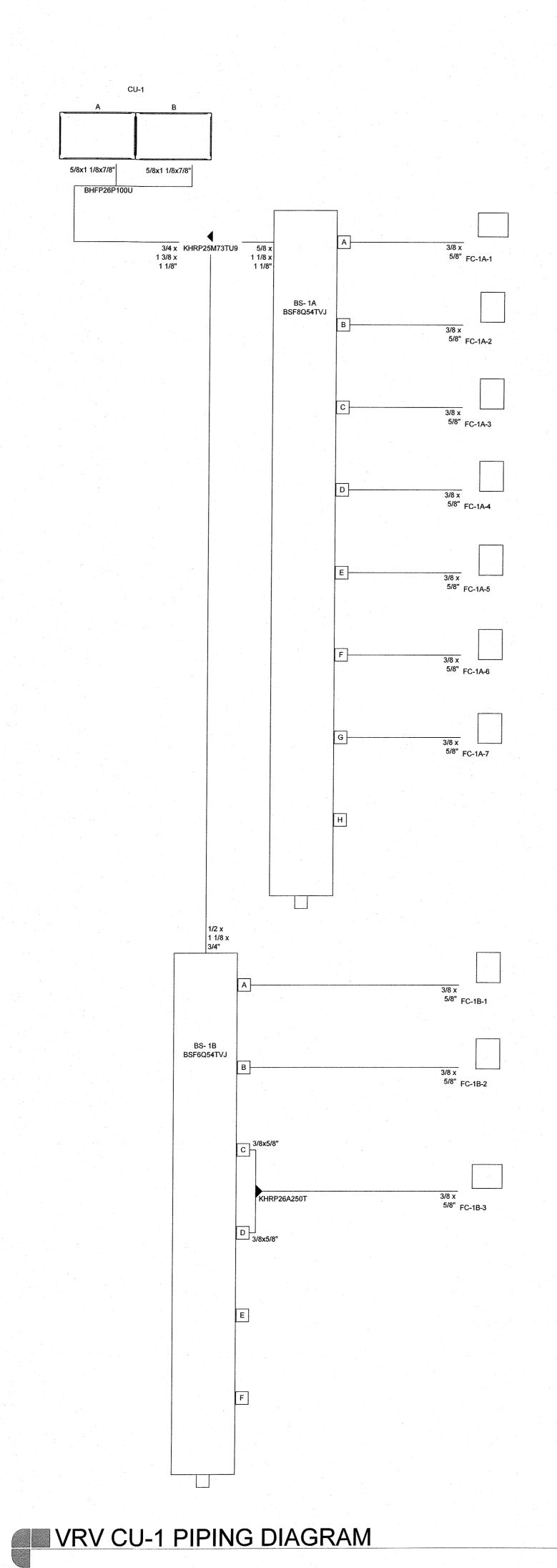


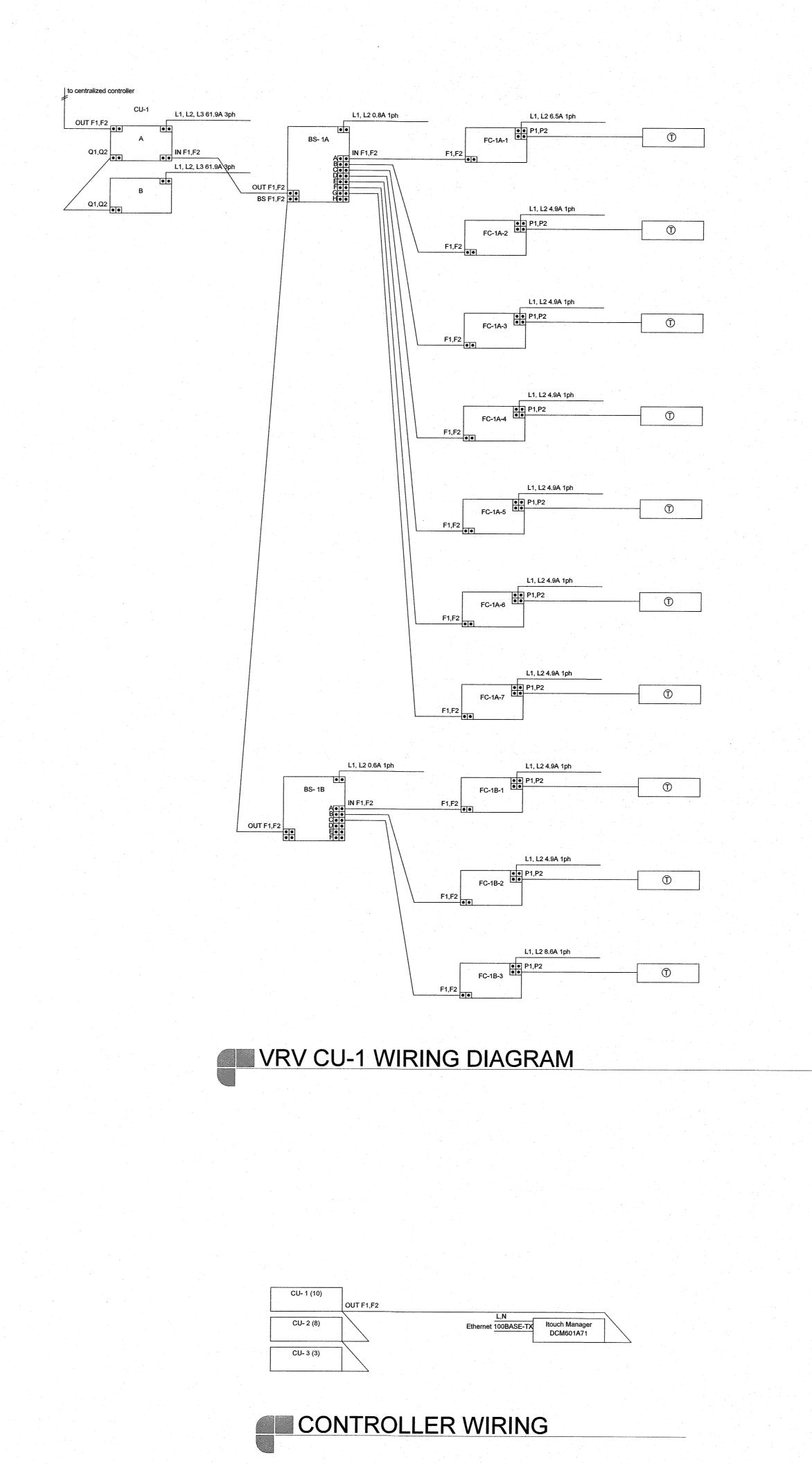




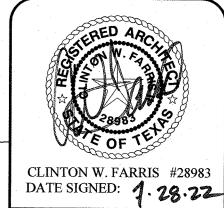
DR	AWN BY: FINCHER	
DA	TE: 28 JULY 2022	
	REVISIONS	
10.	DESCRIPTION	DATE
PRO	DJECT NO.	

20864.00 SHEET NO.









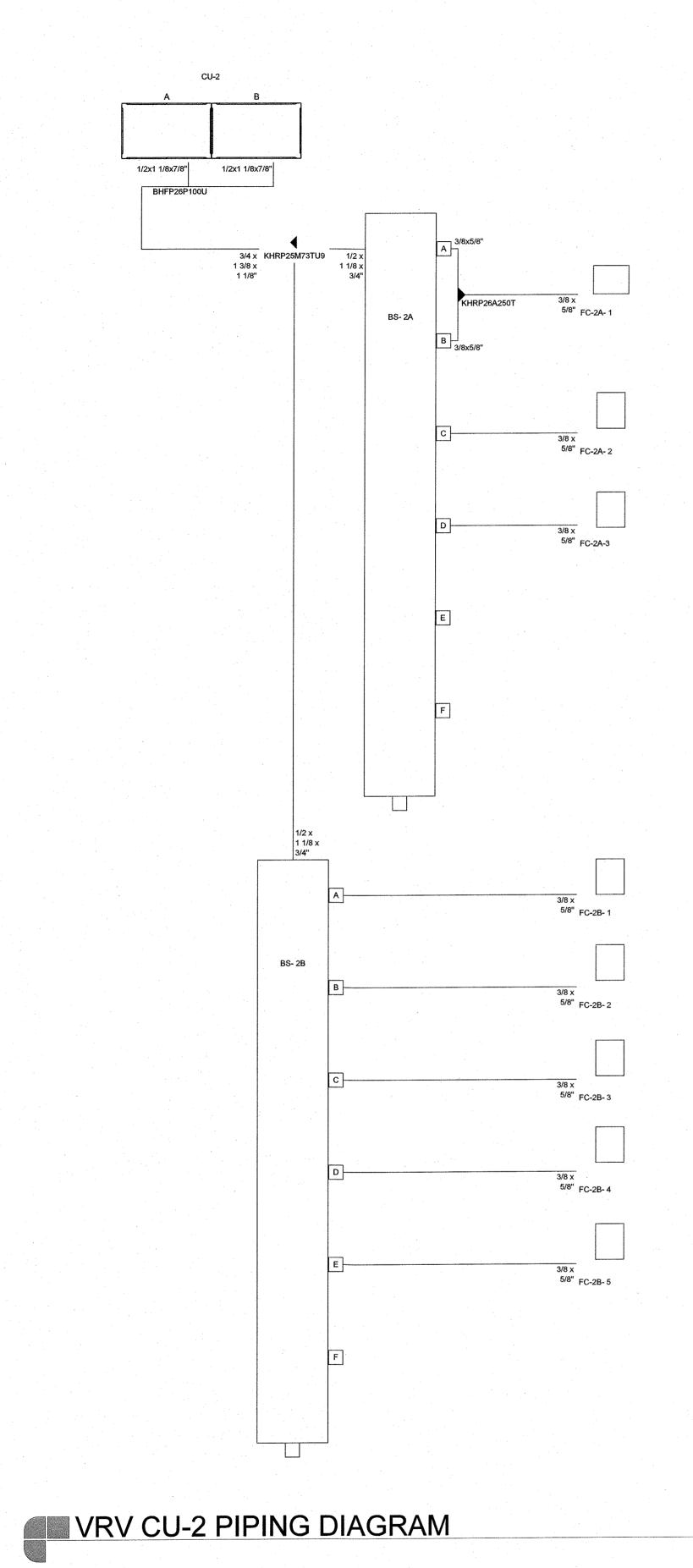




JORDON I.S.D. CAMPUS FOR GORDON I.S.D.

	VN BY: FINCHER : 28 JULY 2022	
DATE	REVISIONS	
NO.	DESCRIPTION	DATI
	b .	

M402



to centralized controller OUT F1,F2 REYQ288XATJA L1, L2 0.6A 1ph ● P1,P2 BS-2A FC-2A-1 L1, L2, L3 58.3A 3ph L1, L2 4.9A 1ph L1, L2 0.6A 1ph BS-2B OUT F1,F2 L1, L2 4.9A 1ph L1, L2 4.9A 1ph

1

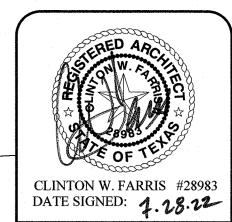
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VRV CU-2 WIRING DIAGRAM











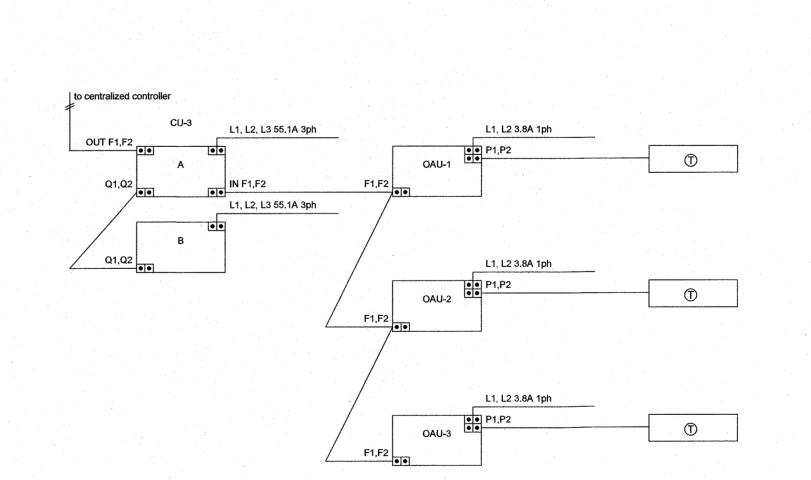
ADDITIONS

DRAWN BY: FINCHER DATE: 28 JULY 2022 DESCRIPTION

PROJECT NO. 20864.00

SHEET NO.

■ VRV CU-3 WIRING DIAGRAM



BHFP22P100U

3/4 x KHRP26M73TU9 3/8 x 1 3/8" 7/8" 0A

VRV CU-3 PIPING DIAGRAM

KHRP26M72TU9 3/8 x 7/8" OAU-2

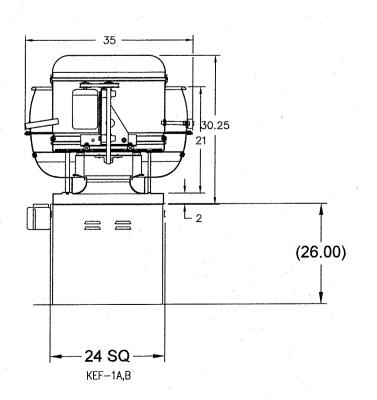
KITCHEN VENTILATION SYSTEM (BASIS OF DESIGN-LARKIN)

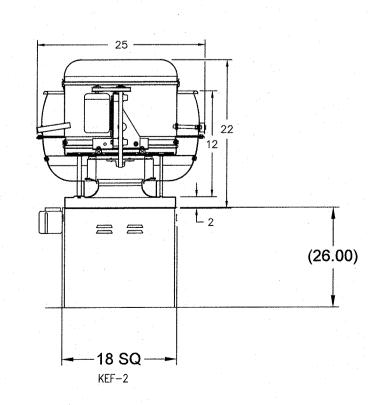
HOOD II	NFORMATION																	
HOOD			HOOD	DIMENSIO	ONS (IN.)		COOKING			EXHAL	JST				SUP	PLY	TOTAL SECT	OFOTIC
HOOD NO.	MARK	MODEL	LENGTH	MIDTH	HEIGHT	HOOD CONSTR.	LOAD / -	TOTAL		CC	S)	MU		UA	AC	VVEIGHT	SECTION LOCATION	
			LLITOITI	· ·	I I LIOIT.		RATING	CFM	WIDTH	LENGTH	Qty.	CFM	S.P.	С	FM	CFM	LBS.	200/111
1	KH-1	EO-FPSP	204	54	24	430 SS WHERE	HEAVY	4676	10	22	1	2338	.472	3	740		600	DOUBLE
'		EXPOSED	10	22	1	2338	.472		, 40		000	OOO DOODEL						
HOOD II	NFORMATION																	
HOOD		LI	SHTING D	ETAILS		GREA			U	TILITY	CAB	INET(S)					
NO.	MARK	FIXTUF	RE TYPE	IOTA		TYPE	/ MODEL	LQTYSIZE	SIZE (IN.	LOCATION		FIRE SYSTEM				С	ONTROLS	}
		BULB / L	AMP INFO CAND			DLES MATERIAL		Q i i	L H	LOCATIO	`	TYPE SIZE			Ε . Ν	MODEL INTERFA		RFACE
1	KH-1	INCANDESC 100W A19 (BU			45.61		AFFLE	2	20 20	Remote	-	ANSUL R10	2	6		AFC	SWI	CHES
		100W A19 (BO	_DO NOT I	NCL.)		STAINL	ESS STEE	L 10	16									
	PLENUM INFORMATION	T	01	75 (1)	· · · · · · · · · · · · · · · · · · ·	<u> </u>		LEDITO	UT(O)	Ť								
HOOD NO.	MARK	POS. TYP	=	ZE (IN.)	INSULA	TED DAMP	FR(S)	LED LIG		TOTAL		1.40.11.1	010=		OLLA			T
NO.	101.4		_ <u>L</u>	W H				PPLIED	QTY	CFM		MOUNTIN			-	DIA. CF		
1	KH-1	FRONT FPS		12 6	NC.			NO		1870	MUA		-		26	93		
1	KH-1	FRONT FPS	P 103	12 6	l NC) N	0	NO		1870	MUA	FACTOR	/ 2	10	26	93	35 0.2	499

UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER FACTORY MOUNTED EXHAUST COLLAR(S)

7777						
		REAR INTEGRAL AIR SPACE		REAR INTEGRAL AIR SPA	73.0	T
	7.0	10.0	7.0	10.0	•	
			1			
	22.0		22.0			,
	34 IN. OC		34 IN. OC		54.0	8.0
		0		en e	•	
	10.0	10.0	10.0	10	.0 14.0	
	26.0	26.0	26.0	26.0		
	102.0	25.8	25.8 - 51.5			
1,0	51.0	51.0	51.0	51.0	1.0	
AIR SPACE		206.0			AIR SPACE	
	MARK: KH-1 - SECTION 1 PLAN VIEW	MAR PLAI	K: KH-1 - SECTION 2 N VIEW		TANK TANK RELEASE OEM	
	The state of the s		V V I Inc. V V		ANSUL R102	
					FIRE SYSTEM MARK: FSS-1 PLAN VIEW	
					54.0	

	KIT	CH	ΙEΝ	EXH	AUS	STF	AN SO	CHEDU	JLE	
Mark	Manufacturer & Model No.	СҒМ	ESP	HP	RPM	Motor RPM	Drive	Туре	Elec. Data	Remarks
KEF-1A	Loren Cook 150V15D	2367	0.90	.75	1725	1725	Direct	Upblast	120V/1Ø/60Hz	1,2,3,4,5,6,7,8
KEF-1B	Loren Cook 150V15D	2367	0.90	.75	1725	1725	Direct	Upblast	120V/1Ø/60Hz	1,2,3,4,5,6,7,8
KEF-2	Loren Cook 101R15D	450	0.50	.125	1550	1725	Direct	Upblast	120V/1Ø/60Hz	2,3,8
Notes:		1	·						- 	
1.	UL/cUL 762 Listed - "Power Ventila	ators fo	r Rest.	Exh. Appli	iances"					
2.	Roof mounted fans shall have pre-	wired o	lisconn	ect switche	es.	<u>.</u>				
3.	Hinged Base									
4.	High Temp Curb Seal Rated for Co	ntinuo	us Duty	/						
5.	Grease Trap				· · · · · · · · · · · · · · · · · · ·					
6.	Heat Baffle					7 .				
7.	Clean-out Port									
8.	Bearings with Grease Fittings, L10	life of	100,00	0 hours						





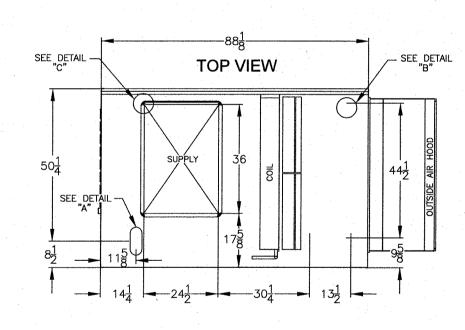
HOOD		14,		HOOD	DIMENSIO	ONS (IN.)	lioop.	COOKING			EXHA	UST			SUF	PLY	TOTAL	
NO.	MARK		MODEL	LENGTH	WIDTH	HEIGHT	HOOD CONSTR.	LOAD / DUTY	TOTAL CFM	WIDTH	C LENGTH	OLLAR(S	/	0.0	MUA CFM	AC CFM	WEIGHT LBS.	SECTION LOCATION
						-	430 SS	RATING	CITIVI	WIDIT	LENGIA	Qty.	CFM	S.P.	CFW	CFIVI	LDO.	
1	1 KH-2		СН	36	36	24	WHERE	Light	450	11	11	<u> </u>	450	.032			150	Single

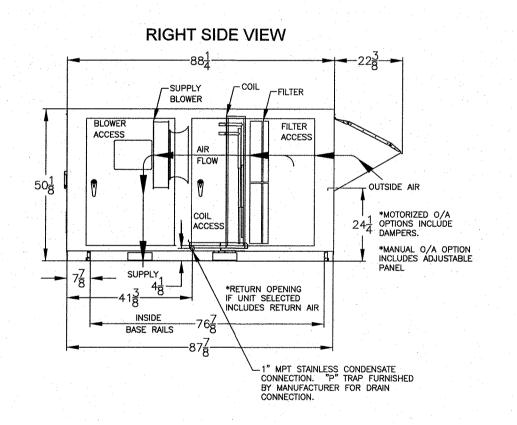
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER
FACTORY MOUNTED EXHAUST COLLAR(S)

CONDENSATE DRAIN 1/2 in. NPT 1.0 1.0 36.0 36.0

MARK: KH-2 - SECTION 1 PLAN VIEW

				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	KITO	CHEN	MAKE	UP AIR	UNIT S	CHEDU	LE				
Mark	Manufacturer & Model No.	CFM	ESP	TSP	HP	RPM	Туре	Gas	EAT	LAT	Input	Output	Elec. Data	FLA	MCA	MOP	Remarks
MAU-1	AAON RN0098000005G4	3,740	0.50	1.04	2	1170	Indirect	Natural	15	72.8	259.3	207.4	208V/3Ø/60Hz	9	11	15	1,2,3,4,5,6,7
Notes:																	
1.	Weatherhood with Aluminum Mes	h Filter				***************************************		•		***************************************							
2.	Outdoor Air Only, Down Discharg	e, End OA	Intake	•						***************************************	Visit in the second sec			· · · · · · · · · · · · · · · · · · ·			
3.	Double Wall Construction																
4.	Heat Inlet Sensor and Supply Air	Discharge	Senso	r for Temp	erature Co	ntrol							*				
5.	VCCX2 Microprocessor Controlle	*		· · · · · ·		***************************************			· · · · · · · · · · · · · · · · · · ·							***************************************	
6.	Stainless Steel Heat Exchanger													***************************************			
7.	4 Stage Heating					·											





FIRE SYSTEM INFORMATION							
MARK	MODEL	LOCATION	FLOW POINTS	TANKS	SUPPLY LINE	DETECTION	MARK(S) PROTECTED BY FIRE SYSTEM
FSS-1	ANSUL R-102 WET CHEMICAL	Wall Mount	12UTILIZED 22 AVAILABLE	(2) 3.0 Tanks	CONTINUOUS	FUSIBLE LINK	KH-1 SECTION 1 and 2

FIRE SYSTEM OPTIONS AND ACCESSORIES

FULL INSTALLATION (INCLUDES PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL)

CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS - INCLUDED

METAL BLOW-OFF CAPS - INCLUDED

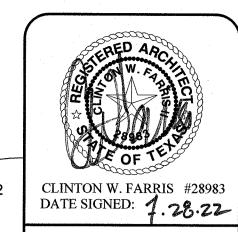
GAS VALVE - INCLUDED - MECHANICAL SHUTOFF VALVE, 2", (ANSUL) - PART# ANSULMECHSHUTOFFVALVE200
REMOTE PULL STATION - STANDARD - INSTALLATION AT SINGLE POINT OF EGRESS

JUSTIN M. FINCHER

98476

98476

7-28-20







ICHER ENGINEERING, LLC TX FIRM #F-16408 621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109 WWW.FINCHERENG.COM

OF STANDER MORE

S.D. CAMPL

FOR (

DRAWN BY: FINCHER

DATE: 28 JULY 2022

REVISIONS

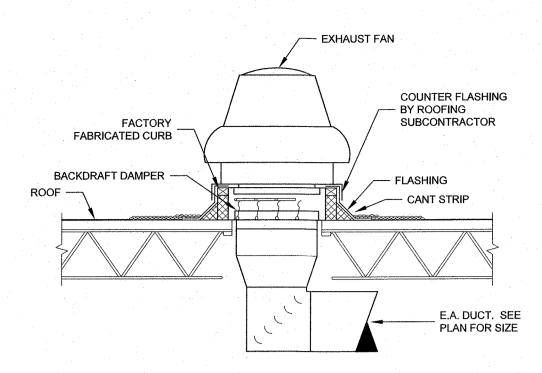
DESCRIPTION DAT

DJECT NO.

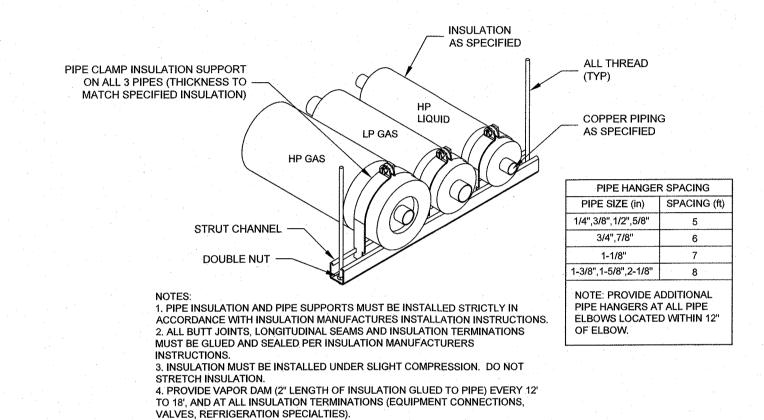
HEET NO

M404

(C) HPA INC

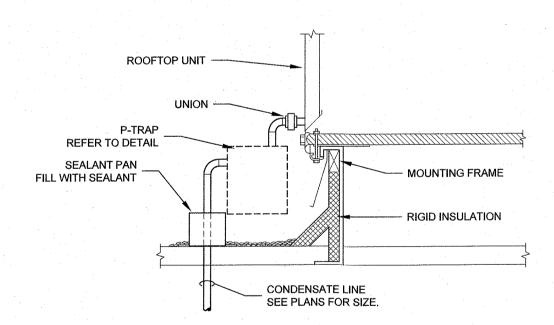


EXHAUST FAN MOUNTING DETAIL FLAT ROOF NO SCALE

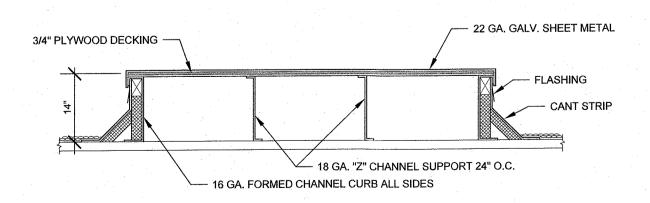


REFRIGERANT PIPING SUPPORT DETAIL

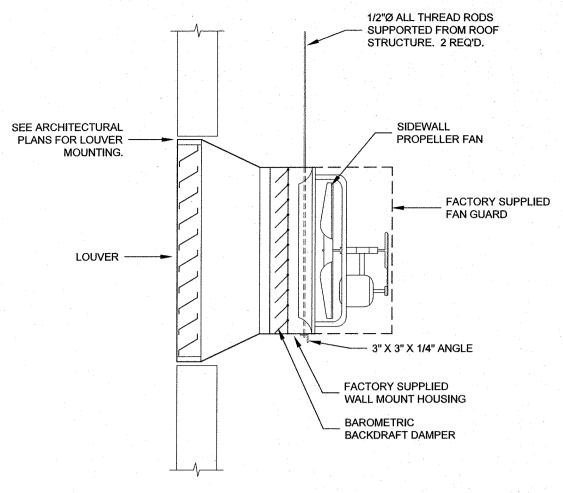
NOTES: APPLIES FOR ALL PIPING BETWEEN OUTDOOR UNIT AND BRANCH SELECTORS ON HEAT RECOVERY UNITS AND FOR ALL PIPING BETWEEN OUTDOOR UNITS AND OAU UNITS ON HEAT PUMP SYSTEM.



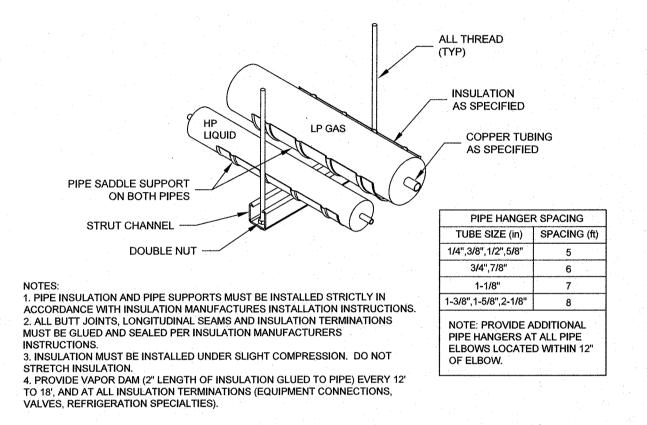
ROOFTOP UNIT DRAIN LINE DETAIL



CONDENSING UNIT MOUNTING PLATFORM

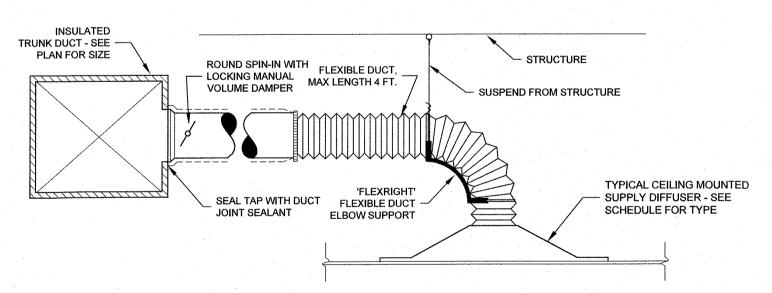


SIDEWALL EXHAUST FAN DETAIL



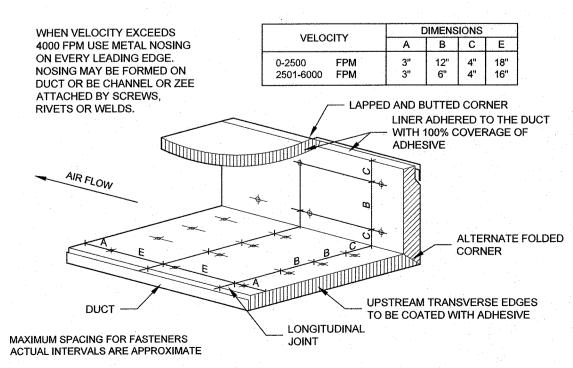
REFRIGERANT TUBING SUPPORT DETAIL

NOTE: DETAIL APPLIES FOR ALL PIPING BETWEEN
BRANCH SELECTOR AND INDOOR UNITS OF
HEAT RECOVERY SYSTEM

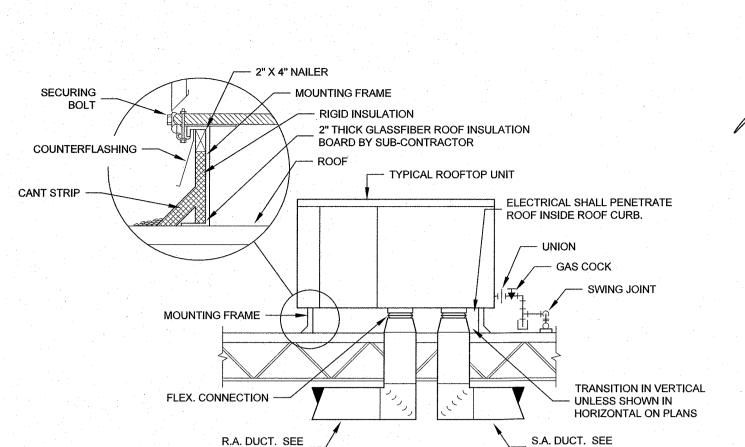


ROUND SUPPLY AIR DIFFUSER MOUNTING DETAIL NO SCALE

NOTE: CONNECTIONS OF FLEX DUCT INNER CORE SHALL BE MADE WITH S.S.
WORM DRIVE CLAMPS. OUTER INSULATION SHALL BE FITTED OVER
CORE CONNECTION AND SECURED WITH S.S. CLAMP.



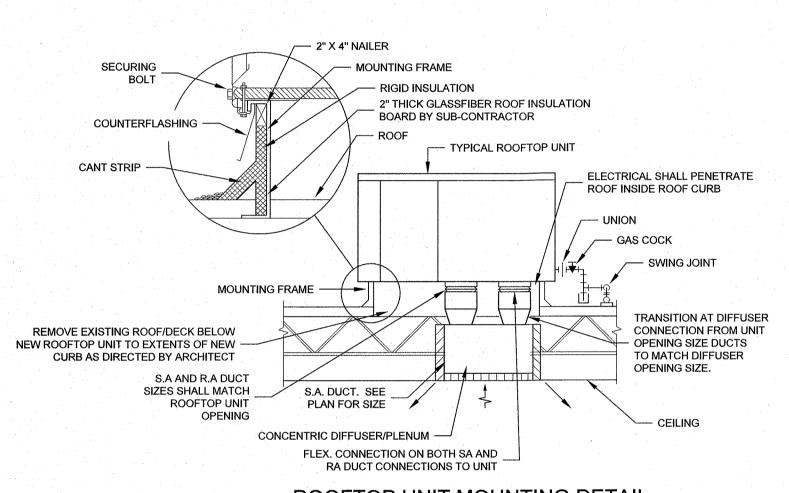
DUCT LINER FASTENER SPACING DETAIL



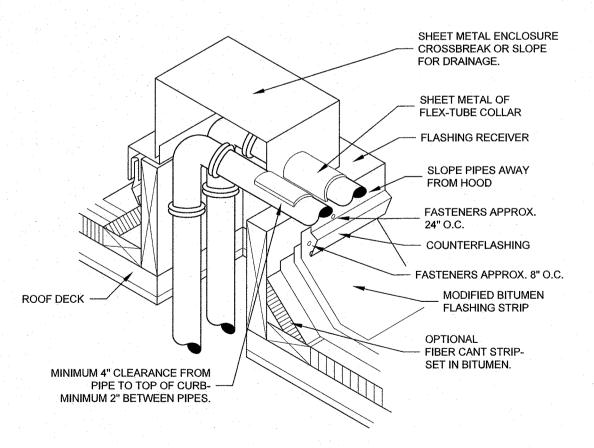
PLAN FOR SIZE.

ROOFTOP UNIT MOUNTING DETAIL ON EXISTING ROOF

PLAN FOR SIZE.



ROOFTOP UNIT MOUNTING DETAIL
W/ CONCENTRIC DIFFUSER
NO SCALE

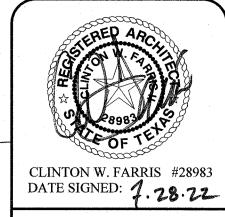


REFRIGERANT PIPING THROUGH ROOF DETAIL

NO SCALE

NOTE: THIS HOOD DETAIL DEPICTS JOB-SITE FABRICATED CONSTRUCTION. MANY
MANUFACTURERS OFFER PREFABRICATED BOOTS AND OTHER MATERIALS FOR THIS
PURPOSE. ONE TYPICAL CONFIGURATION IS SHOWN IN THE INSET. SPECIFICS ON
THESE PROPRIETARY DESIGNS VARY GREATLY, AND INDIVIDUAL MANUFACTURERS
SPECIFICATIONS SHOULD BE CONSULTED FOR THEIR USE.





ESTABLISHED 1962
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TX FIRM #F-16408 5621 114TH ST., SUITE 100 LUBBOCK, TX 79424 PH: 806-701-5109 WWW.FINCHERENG.COM

JORDON I.S.D. CAMPUS
FOR GORDON I.S.D.

DRAWN BY: FINCHER

DATE: 28 JULY 2022

REVISIONS

NO. DESCRIPTION DATE

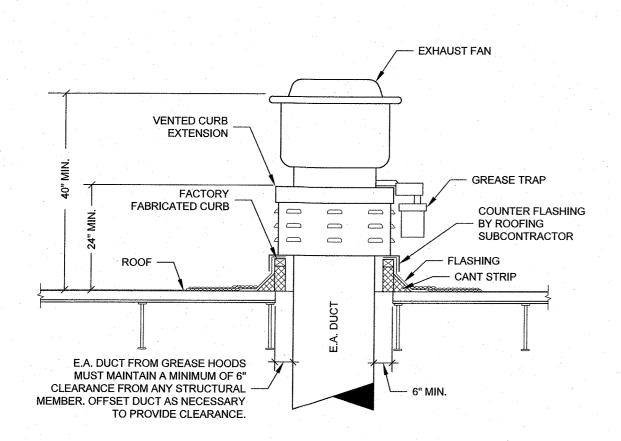
PROJECT NO.

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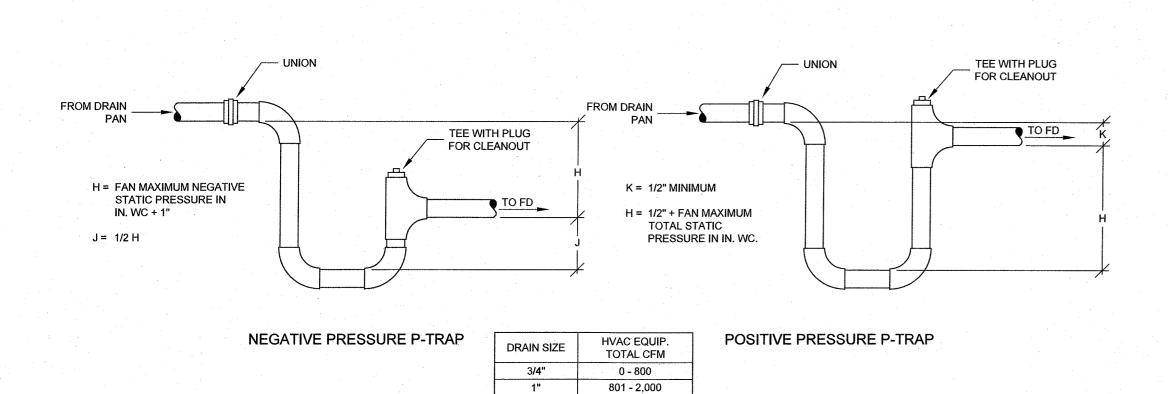
SHEET NO.

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KITCHEN HOOD EXHAUST DUCT
ACCESS DOOR DETAIL
NO SCALE
NOTE: PROVIDE ACCESS DOOR AT EACH DUCT FITTING AND 10' O.C.



KITCHEN HOOD EXHAUST FAN MOUNTING DETAIL



2,001 - 12,000

12,001 - 20,000

20,001 - 68,000

CONDENSATE DRAIN DETAIL

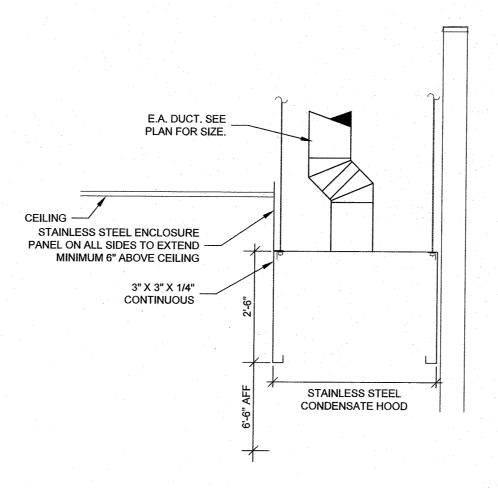
TYPE L COPPER WITH SOLDERED JOINTS AND FITTINGS.

1-1/4"

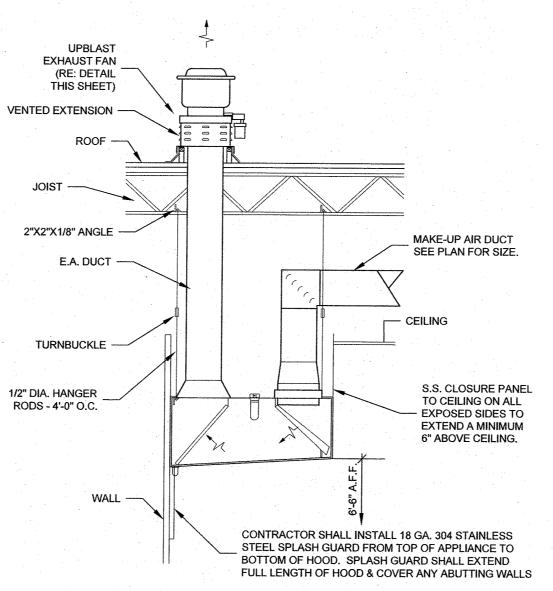
1-1/2"

NO SCALE

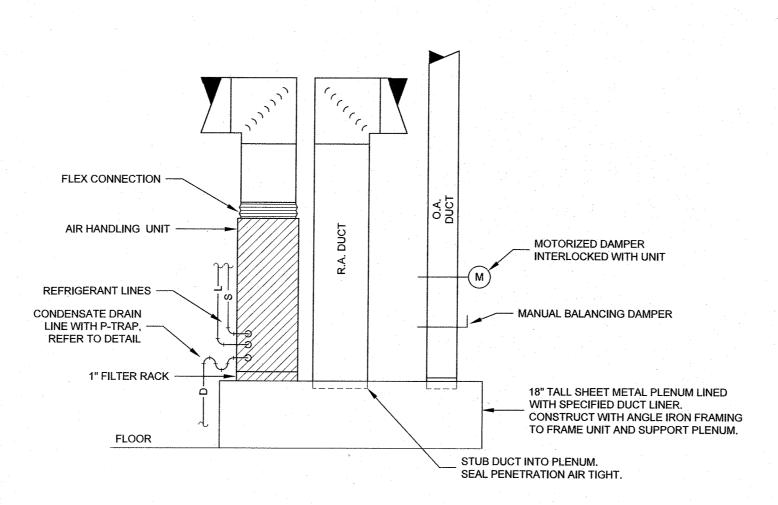
NOTE: CONDENSATE DRAIN SHALL NOT BE SMALLER THAN UNIT CONNECTION. ALL CONDENSATE DRAIN LINES SHALL BE



DISHWASHER HOOD DETAIL
NO SCALE

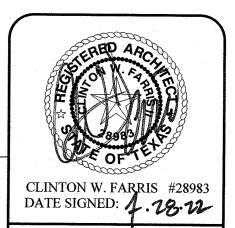


KITCHEN VENTILATION HOOD DETAIL NO SCALE



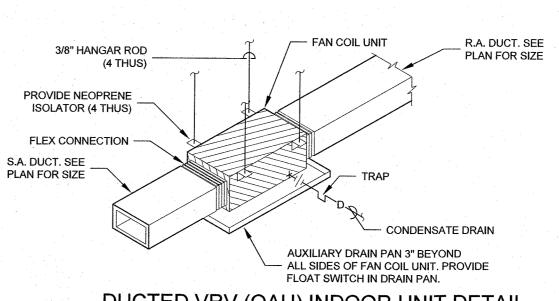
INDOOR VERTICAL VRV AIR HANDLING DETAIL (FC-1A-1)
NO SCALE











1" IN 4" MAXIMUM SLOPE _ 1" IN 7" DESIRABLE SLOPE

ANGLE TAP DETAIL

MANUAL

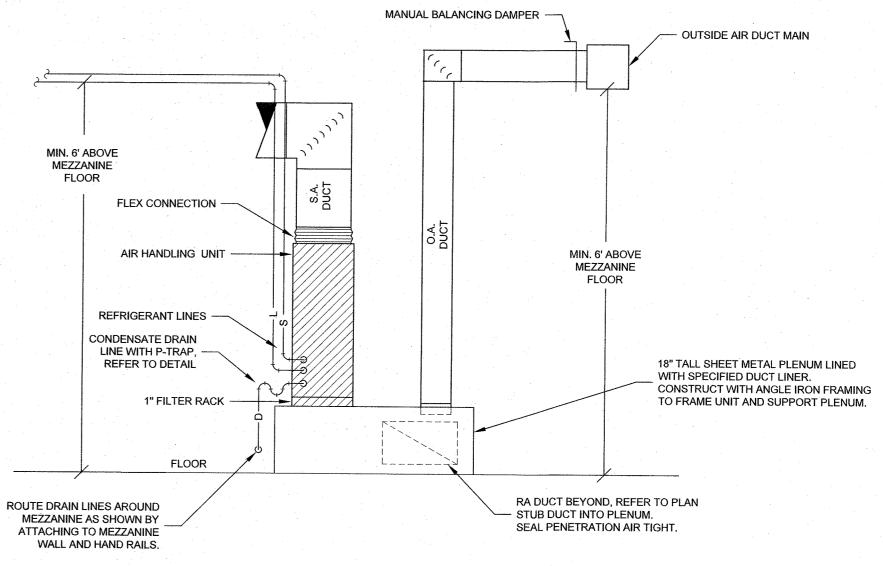
DAMPER

BALANCING -

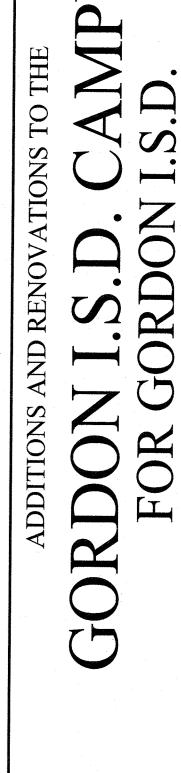
DUCTED VRV (OAU) INDOOR UNIT DETAIL

NO SCALE

NOTE: AUXILIARY DRAIN PAN SHALL BE 1-1/2" DEEP,
22 GAUGE GALVANIZED SHEET METAL.



INDOOR VERTICAL VRV AIR HANDLING DETAIL (ALL UNITS OTHER THAN FC-1A-1)
NO SCALE



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NO. DESCRIPTION DATE

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M406

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