

CARSON CITY PURCHASING & CONTRACTS
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<http://www.carson.org/Index.aspx?page=998>

NOTICE TO CONTRACTORS - BID # 1415-143
BID TITLE "Carson City Animal Services Facility"
Labor Commissioner PWP# CC-2015-116
Engineer's Estimate: \$3,350,000

August 24, 2015

Addendum No. 3

Please make the following additions/changes to the above referenced project.

1. The date, time and place for receiving bids remains unchanged.
2. Make the following changes in the plans and bid documents as outlined below:

Question 1: *Is there any wall tile on the South wall between canine hold #149 & run #117? Or better yet can we get a drawing showing where the tile starts and stops on the full South wall?*

Answer: *The exterior tile locations are shown in the typical detailed reference plan E1/I105 as called out on the main reference floor plan, sheet I102.*

Question 2: *Sheet A602 Room 104*

On finish schedule its denoted as (Building Owner Storage)

On Plans - it's a hallway and the Building Owner storage is Room 120

Please confirm what room needs Rubber Base.... 104 or 120?

Answer: *If you look at the current plan on A101, 104 is a public hall and 120 is also a hall that comes off of public hall 116. The only storage place labeled on the plan is room 156: Mechanical Storage. If you look at sheet I101 at the room finish schedule, the only place there is rubber base is the Mechanical Storage room which has base B2. All the other rooms have tile or the epoxy flashcove base.*

Question 3: *On Addendum #1, Sht A202 it references item 6.266. This item is not shown on the plans*

Answer: *See A103 for location of decorative wood beams in Adoption Lobby #102, A304 and G1/A503 ro4 beam sections and details.*

Question 4: *On addendum #1, Sht A202 it references item 9.513. This item is not called out on plans*

Answer: See I103, I104 for finishes on the front surface of the reception desk.

Question 5: On Sheet C103 there is a shaded area saying “replace ac paving”. Could you please clarify? Are we to add base? Thickness? Etc.

Answer: See pavement patch detail on C110

Question 6: I understand you overexcavated & built a pad. Am I correct in assuming you went the required distance below the footing and 5’ beyond the building dimensions?

Answer: Yes

Question 7: Can you provide a copy of the soils report. I only have a “preliminary” from the last bid.

Answer: Original soils report is the final. A copy can be email to you. Request a copy from LTadman@carson.org

Question 8: It appears the pad was held down 12” BFF. We are to install 4” of base & 4” of concrete. Please clarify your intent for the remaining 4 “?

Answer: FF height is 4633.00. Finish pad grade is 4632.25 which equals 9”. This is made up of 4” base, vapor barrier, 1” sand over vapor barrier, 4” concrete.

Question 9: The specification calls for a Notifier AFP-200 FACP. This panel is no longer manufactured by Notifier. The current line of Notifier panel that would be comparable would be either the Notifier NFS-320 or the NFS-640 both cut sheets are provided for your review.

It would also help to understand the minimum requirements that are being required by this panel as well. The specification alludes to an automatic fire alarm control system with full smoke coverage. The minimum standards for a Class “B” occupancy with this occupant load is a sprinkler monitoring system that would monitor the duct detection as well. Please verify what would be the minimum requirements for this project. If the requirement is to only be a sprinkler monitoring system then both of these panels would be far in excess of what would be needed. A possible solution panel for a sprinkler monitoring system would be the Notifier FireWarden – 50 which is specifically designed to provide addressable coverage for a system of this size. If the system does require full smoke coverage the FireWarden 100 should also be considered as it would more than cover this buildings requirement. I have attached cut sheets for these panels as well.

Answer: Provide the minimum standard for a Carson City Fire Annunciation System. The fire alarm system would be a

Notification system to meet minimum required code for this type of facility and as required by local Authority having jurisdiction.

Does that statement eliminate the Fire Alarm Spec?

Answer: *Yes, eliminate Section 16722*

Are there additional requirements being required over and above the minimum code requirements?

Answer: *No, must meet Carson City Fire Department minimum code requirements.*

Question 10: *Are any Non-Proprietary Fire Alarm System substitutions acceptable? The specified Notifier AFP-200 is an older Proprietary FACP and I am wondering why this panel? This panel will limit Carson City's choices of quality Fire Alarm vendors dramatically.*

Is the specification for "Chime/Strobes" correct instead of Horn/Strobes?

Sure about Indicating circuits Style Z (class A) and Initiating circuits Style D (class A)?

Answer: *See addendum #2 for requirements of design build Fire Annunciation System. Disregard specification Section 16722*

Question 11: *Are the Plastic Tub Table Enclosures part of our quote or O.F.C.I.? If it is expected to be us, could you provide a manufacturer and item number? Are the cabinets below a part of the Tub Tables, or are the p-lam cabinets we need to quote also?*

Answer: *The tub tables are stand-alone S.S. units, OFCI. No cabinets.*

Question 11: *Are there any Division 17 specifications for voice/data structured cabling? NO Are we to include voice and data cabling in this project? Yes If there are no Division 17 specs, and we are to include voice/data cabling, here are a list of questions:*

Should we include Cat5e or Cat6 cabling? CAT6, with two port face plates, one data, one voice as located on E103

Is there a specific cable manufacturer we should use? No

Do we include a rack in the server room? If so, wall-mount or floor-mount? No

The data cables should terminate on patch panels, but will the voice cables also terminate on patch panels or 66-type connecting blocks or 110A wiring blocks? Patch panels

Is there backbone cabling included in this project or will the Service Provider bring facilities directly to the server room? Brought to server room by provider.

Clarification 1: *Modify & Replace Sheets E104, E201, M101 and M602, note the following:*

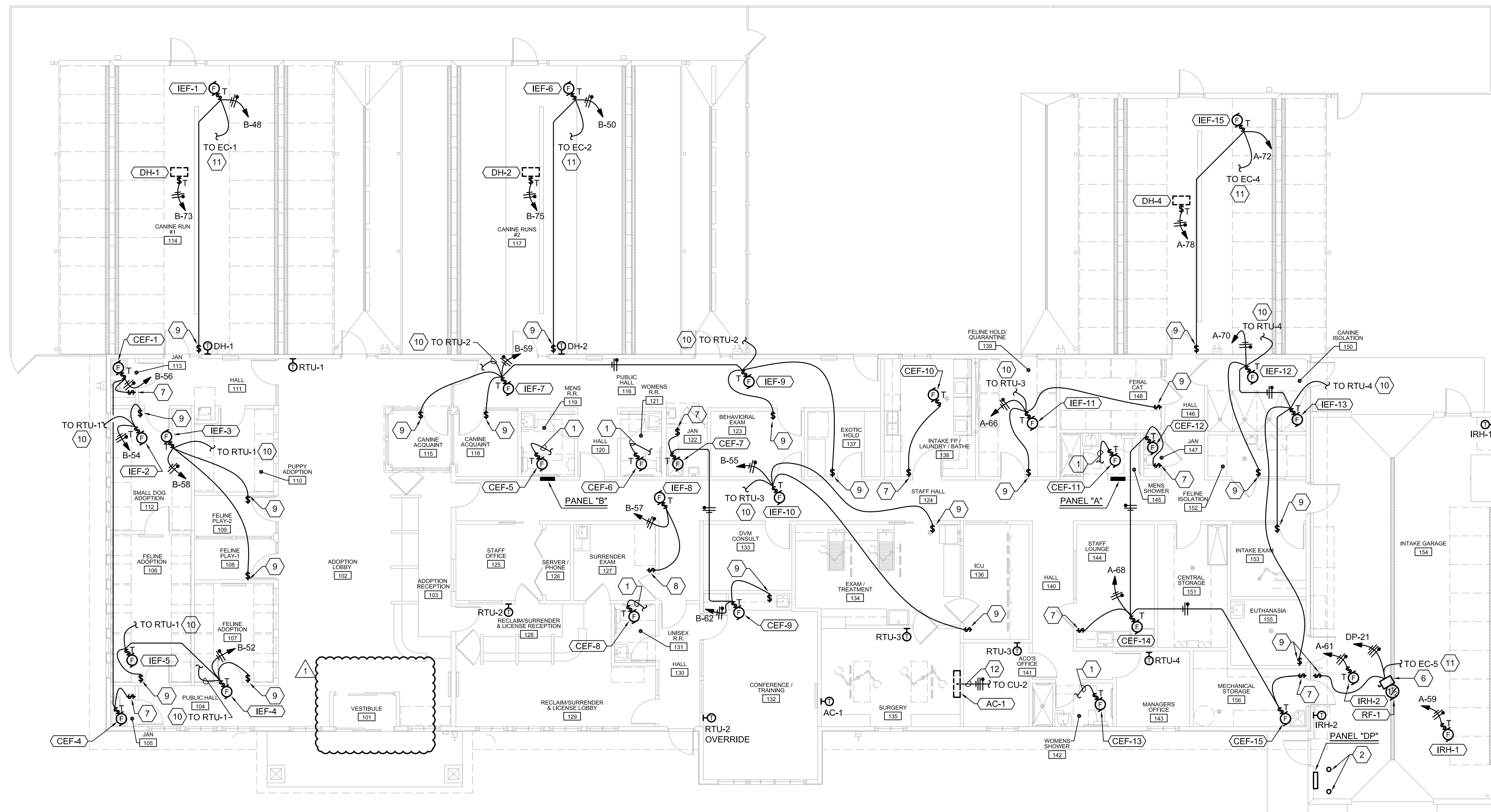
Remove both Electric Baseboard heaters. Modify associated power.

Revise RTU-1 and RTU-3 model numbers. Modify associated ductwork as shown on M101 along with associated power on electrical sheets. Approx. savings for these changes are \$20,000.

Clarification 2: *E105 Delete keynote 3 on E105.*

End of Addendum No. 3

Scale: August 24, 2015 - 10:29 AM - Nevada
 Plot Date: August 24, 2015 - 1:54 PM
 Drawing Name: F:\15016 Carson City Animal Services\15016 CAD\Constructive\Electrical\15016 - E104 - Power Plan - Mechanical - VE.dwg



A1 POWER PLAN - MECHANICAL
 1/8"=1'-0"



- KEYED NOTES**
- EXHAUST FAN SHALL CONNECT TO LIGHTING CIRCUIT AND BE CONTROLLED BY RELATED ROOM LIGHT SWITCH.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - NOT USED.
 - 240V-30A-2P-3W PLUS SOLID NEUTRAL, FUSIBLE, NEMA 1 ENCLOSURE DISCONNECT SWITCH. FUSE AS RECOMMENDED BY UNIT MANUFACTURER.
 - SINGLE POLE TOGGLE SWITCH WITH RED PILOT LIGHT FOR CONTROL OF EXHAUST FAN. PILOT LIGHT SHALL ILLUMINATE WHEN FAN IS ENERGIZED. PROVIDE PERMANENT LABEL ON FACEPLATE. LABEL TO READ, "EXHAUST FAN ON-OFF". VERIFY LOCATION PRIOR TO INSTALLATION.
 - PROVIDE AND INSTALL A 15 MINUTE "TWIST-TIMER". VERIFY LOCATION PRIOR TO INSTALLATION.
 - PROVIDE AND INSTALL A 15 MINUTE "TWIST-TIMER". TWIST-TIMER FOR "HIGH" SPEED CONTROL OF FAN.
 - 3/4" CONDUIT WITH PULLWIRE FOR INTERLOCK WITH MECHANICAL UNIT INDICATED FOR "LOW" SPEED CONTROL OF FAN.
 - 3/4" CONDUIT WITH PULLWIRE FOR INTERLOCK WITH MECHANICAL UNIT INDICATED.
 - EXTEND 3/4" CONDUIT WITH (3) #12 AND (1) #12 GROUND UP TO MECHANICAL UNIT INDICATED.

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POWER PLAN - MECHANICAL

REV.#	DATE	COMMENTS
1	8/24/15	ADDENDUM CLARIFICATION

INITIALS	REVIEWS
	BDA DSGN. REV.
	BDA TECH REV.

CCAS
 PROJECT NO.: 1107
 DRAWN: RP / RW / JKD
 DATE: 7/23/2015

E104
 OF



KEYED NOTES CONTINUED

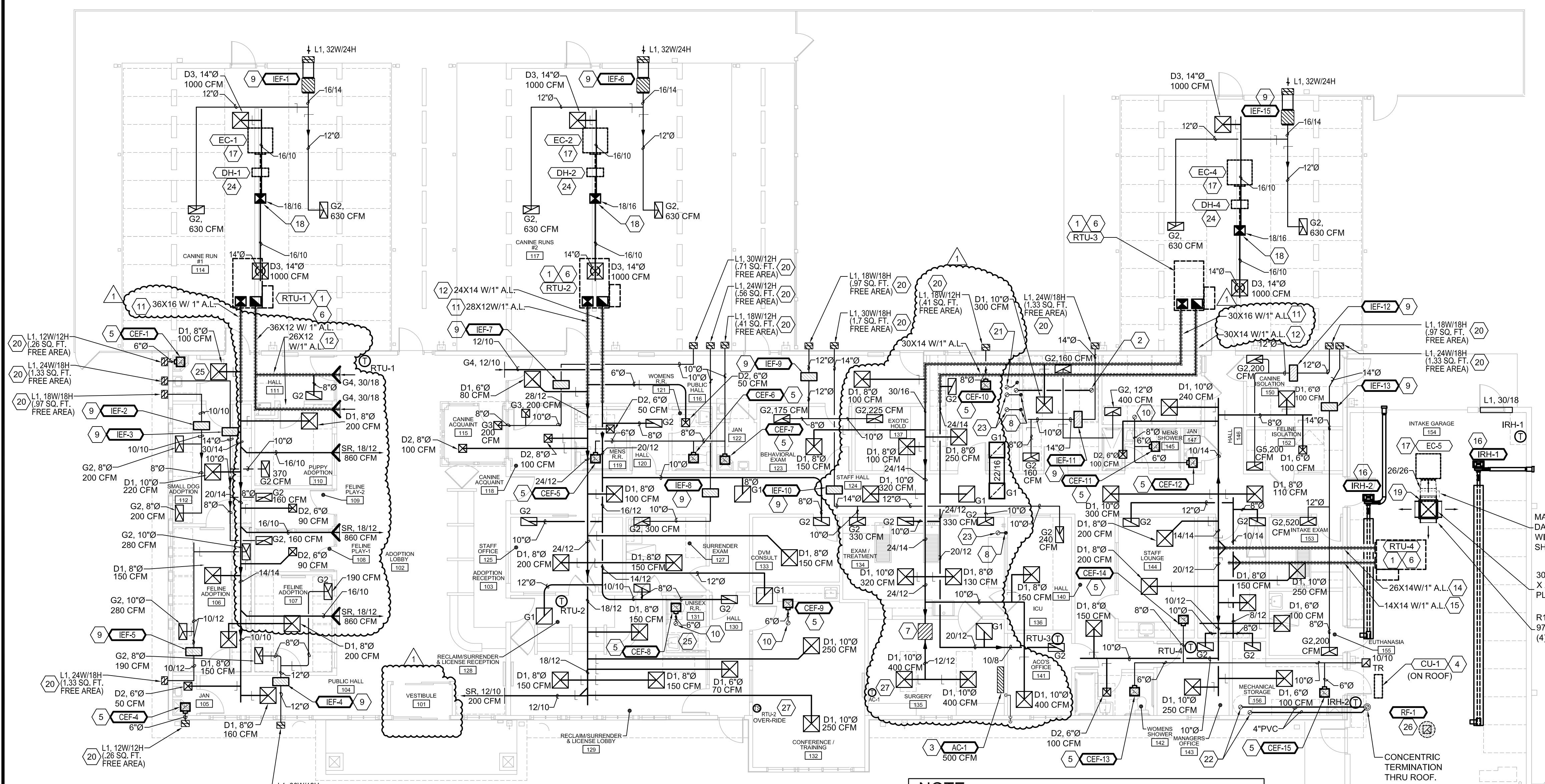
18. PROVIDE A ROOF OPENING APPROXIMATELY 2" LARGER ALL-SIDES OF SUPPLY DUCT. EXTEND DUCT AS SIZED ON PLAN DOWN THRU ROOF CURB AND ROUTE AS SHOWN.
19. PROVIDE A ROOF OPENING APPROXIMATELY 2" LARGER ALL-SIDES OF SUPPLY DUCT. EXTEND DUCT AS SIZED ON PLAN DOWN THRU ROOF CURB AND CONNECT TO TOP OF 30"Lx30"Wx20"D SUPPLY AIR PLENUM. PROVIDE SIDEWALL SUPPLY REGISTERS AS SIZED ON PLAN ON ALL 4 SIDES OF SUPPLY PLENUM.
20. EXTEND EXHAUST DUCT TO EXTERIOR SOFFIT LOUVER (TYPE L1, DIMENSIONS AND FREE AREA AS INDICATED). PROVIDE ALL TRANSITIONS AS REQUIRED. INSTALL ABOVE DOG RUN ROOF. COORDINATE EXACT LOCATION AND INSTALLATION HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. WALL PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. REFER TO CEILING MOUNTED EXHAUST FAN W/ISOFFIT GRILLE DETAIL.
21. EXTEND DRYER VENT FROM FUTURE COMMERCIAL DOUBLE STACKED CLOTHES DRYER UP THRU ROOF. TERMINATE WITH GOOSENECK WITH BIRDSCREEN ELBOWED DOWN TOWARD ROOF. SECURE BIRDSCREEN TO GOOSENECK WITH METAL HOSE CLAMP. PROVIDE SHEET METAL CAP ON END OF DRYER VENT WITHIN SPACE. VERIFY EXACT VENT SIZE REQUIRED WITH DRYER MANUFACTURER - EFFECTIVE VENT LENGTH SHALL NOT EXCEED LENGTH ALLOWED BY DRYER MANUFACTURER. PROVIDE ALL REQUIRED CLEARANCES TO COMBUSTIBLES. ROOF PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. INSTALL DRYER VENT PER REQUIREMENTS OF THE UNIFORM MECHANICAL CODE.
22. CONNECT 4" PVC INTAKE AND VENT PIPING TO DIRECT VENT CONDENSING WATER HEATER. ROUTE 4" PVC PIPING AS SHOWN TO GARAGE AND RISE THRU ROOF WITH CONCENTRIC VENT TERMINATION KIT PER MANUFACTURERS REQUIREMENTS. MAINTAIN 10'-0" FROM ANY MECHANICAL INTAKES. SEAL ROOF PENETRATION WEATHER TIGHT.
23. EXTEND DRYER VENT FROM CLOTHES DRYER UP THRU ROOF. TERMINATE WITH GOOSENECK WITH BIRDSCREEN ELBOWED DOWN TOWARD ROOF. SECURE BIRDSCREEN TO GOOSENECK WITH METAL HOSE CLAMP. VERIFY EXACT VENT SIZE REQUIRED WITH DRYER MANUFACTURER - EFFECTIVE VENT LENGTH SHALL NOT EXCEED LENGTH ALLOWED BY DRYER MANUFACTURER. PROVIDE ALL REQUIRED CLEARANCES TO COMBUSTIBLES. ROOF PENETRATION SHALL BE SEALED WEATHERTIGHT AS REQUIRED. INSTALL DRYER VENT PER REQUIREMENTS OF THE UNIFORM MECHANICAL CODE.
24. PROVIDE DUCT MOUNTED GAS FIRED FURNACE UNIT. INSTALL FURNACE UNIT ON EQUIPMENT SUPPORT (THY CURB) SUPPORTS AND PER MANUFACTURER'S REQUIREMENTS. PROVIDE DUCT TRANSITIONS AS REQUIRED TO INLET AND FROM OUTLET OF FURNACE OPENINGS. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
25. UNDER CUT DOOR 3/4" FOR TRANSFER AIR. COORDINATE WITH G.C. AND ARCHITECT.
26. PROVIDE ROOF MOUNTED EXHAUST FAN AND ROOF CURB. PROVIDE DUCT TRANSITION FROM FAN OPENING TO DUCT SIZE SHOWN, TRANSITION IN ROOF CURB. EXTEND DUCT DOWN THRU ROOF. COORDINATE WITH STRUCTURE. REFER TO DETAIL AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. RELIEF FAN (RF-1) SHALL BE INTERLOCKED WITH EC-5. CONTRACTOR SHALL PROVIDE RELIEF FAN (RF-1) WITH AN OVERRIDE WALL SWITCH.
27. PROVIDE A WALL MOUNTED OVER-RIDE TEMPERATURE SENSOR WIRED BACK TO THERMIDSTAT SERVING RTU-2. WHEN ROOM IS OCCUPIED THEN REMOTE

GENERAL NOTES

- A. REFER TO SHEET M501 FOR MECHANICAL DETAILS.
- B. REFER TO SHEET M601 AND M602 MECHANICAL SCHEDULES AND GENERAL NOTES.

KEYED NOTES

1. PROVIDE ROOFTOP UNIT AND FACTORY ROOF CURB. ENSURE CURB IS INSTALLED LEVEL FOR PROPER CONDENSATE DRAINAGE FROM UNIT. PROVIDE FLEXIBLE CONNECTORS ON THE SUPPLY AND RETURN AIR DUCT CONNECTIONS AND TRANSITION TO DUCT SIZES SHOWN. EXTEND DUCTS THRU ROOF. COORDINATE WITH STRUCTURE. REFER TO MECHANICAL DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
2. PROVIDE COMBUSTION AIR DUCT FOR FUTURE COMMERCIAL DRYER INSTALLATION. EXTEND DUCT UP THRU ROOF AND TERMINATE WITH ROOF JACK, STORM COLLAR AND ALL-WEATHER CAP. VERIFY EXACT COMBUSTION AIR DUCT SIZE REQUIRED WITH MANUFACTURER.
3. PROVIDE DUCTLESS SPLIT COOLING UNIT. INSTALL UNIT LEVEL ON WALL FOR PROPER CONDENSATE DRAINAGE. COORDINATE WITH ROOM EQUIPMENT AND CONDITIONS. UNIT CONDENSATE LINE SIZED PER MANUFACTURER, PUMPED TO ABOVE CEILING, DROPPING DOWN IN WALL AND TERMINATING ELBOWED DOWN TO DRAIN 1/8" A.F.G.. ROUTE DRAIN IN COPPER PIPING PROPERLY SECURED TO WALL. COORDINATE WITH PLUMBING CONTRACTOR. PROVIDE LIQUID AND VAPOR PIPING, SIZE PIPING, TRAP, AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR TO COORDINATE SHORTEST ROUTING TO ASSOCIATED REMOTE CONDENSING UNIT. PROVIDE ALL VALVES AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
4. PROVIDE REMOTE CONDENSING UNIT AND EQUIPMENT SUPPORT RAILS ON ROOF. INSTALL UNIT LEVEL. PROVIDE LIQUID AND VAPOR PIPING, SIZE PIPING, SUPPORT, TRAP, AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S INSTRUCTIONS. PROVIDE INSULATION WITH UV PROTECTANT ON VAPOR LINE. EXTEND REFRIGERANT PIPING THRU ROOF THRU PORTALS PLUS "ALUM-FLASH" BASE WITH CAP. SEAL ROOF PENETRATION WEATHERTIGHT. CONTRACTOR TO COORDINATE SHORTEST ROUTING TO FAN COIL UNIT BELOW. PROVIDE CONTROL WIRING BETWEEN CONDENSING UNIT AND FAN COIL UNIT AND ALL CONTROL COMPONENTS. PROVIDE ALL VALVES AND ACCESSORIES AS REQUIRED BY MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM. INSTALL CONDENSING UNIT MAINTAINING MANUFACTURER'S REQUIRED CLEARANCES.
5. PROVIDE CEILING MOUNTED EXHAUST FAN. SUPPORT FAN FROM STRUCTURE WITH 1" X 18 GAUGE GALVANIZED SHEET METAL SUPPORT STRAPS. INSTALL STRAPS AT FAN CORNERS AND PERPENDICULAR TO STRUCTURE. CEILING FAN INSTALLED IN A LAY-IN TYPE CEILING SHALL BE CENTERED IN TILE AND SUPPORTED FROM STRUCTURE. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND THRU WALL OR UP THRU ROOF. PROVIDE A WALL CAP WITH BAROMETRIC DAMPER AND SCREEN OR FACTORY ROOF CAP. INTERLOCK OPERATION OF EXHAUST FAN PER NOTES ON EQUIPMENT SCHEDULE. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
6. INSTALL PETAIRAPY PPR-360 DOUBLE LAMP SYSTEM IN UNIT (DESIGNED TO DISINFECT AIR AND SURFACE) AND PPC-16 (ODOR CONTROL TIO2 MESH TUBE-12PCS), SAFETY SWITCH, VIEWPORT. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND INSTALLATION WITH PETAIRAPY INSTRUCTION. PPR-UNITS MUST BE PLACED ON THE SUPPLY SIDE OF THE COOLING COIL.
7. FILTER ASSEMBLY EQUAL TO FARR 3P GLIDE/PACK FILTER RACK WITH 12" DEEP, 95% RIGA-FLO 200 FILTER, 24" WIDE, 12" HIGH, 200 FPM FACE VELOCITY AT 650 CFM, 0.25" INITIAL PRESSURE DROP, 0.75" FINAL PRESSURE DROP. PROVIDE ALL DUCT TRANSITIONS AT INLET AND OUTLET OF FILTER ASSEMBLY AS REQUIRED.
8. PROVIDE DRYER VENT ENCLOSURE (DRYERBOX MODEL 425) IN WALL AS REQUIRED TO ALLOW SHORT RADIUS VENT CONNECTION TO CLOTHES DRYER. COORDINATE EXACT MOUNTING HEIGHT REQUIRED WITH DRYER VENT OUTLET.
9. PROVIDE IN-LINE EXHAUST FAN. SUPPORT FAN FROM STRUCTURE WITH 3/8" ROD AND SPRING ISO PER DETAIL. IN-LINE FAN INSTALLED IN A CEILING SPACE AND SUPPORTED FROM STRUCTURE. TRANSITION FROM FAN DISCHARGE TO DUCT SIZE SHOWN AND EXTEND THRU WALL TO WALL LOUVER. COORDINATE WITH STRUCTURE. PROVIDE A STORM COLLAR, AND ALL-WEATHER CAP. INTERLOCK OPERATION OF EXHAUST FAN PER NOTES ON EQUIPMENT SCHEDULE. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
10. EXTEND EXHAUST DUCT OF SIZE INDICATED UP THROUGH ROOF AND TERMINATE WITH ROOF CAP PER MANUFACTURERS REQUIREMENTS. PROVIDE ALL TRANSITIONS AS REQUIRED. SEAL ROOF PENETRATION WEATHER TIGHT.
11. EXTEND ACOUSTICALLY LINED SUPPLY DUCT OF SIZE INDICATED UP THROUGH ROOF AND CONNECT TO ROOFTOP UNIT. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH STRUCTURAL.
12. EXTEND RETURN DUCT OF SIZE INDICATED UP THROUGH ROOF AND CONNECT TO ROOFTOP UNIT. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH STRUCTURAL.
13. NOT USED.
14. EXTEND ACOUSTICALLY LINED SUPPLY DUCT OF SIZE INDICATED FROM ROOFTOP UNIT, ON ROOF, THRU WALL AND INTO ATTIC AREA OF BUILDING. ROUTE DUCTWORK IN TRUSS SPACE AND PROVIDE ADDITIONAL DUCT INSULATION FOR DUCTWORK ROUTED IN ATTIC AREA. SUPPORT DUCTWORK ON ROOF AS DETAILED. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH ARCHITECT.
15. EXTEND ACOUSTICALLY LINED RETURN DUCT OF SIZE INDICATED FROM ROOFTOP UNIT, ON ROOF, THRU WALL AND INTO ATTIC AREA OF BUILDING. ROUTE DUCTWORK IN TRUSS SPACE AND PROVIDE ADDITIONAL DUCT INSULATION FOR DUCTWORK ROUTED IN ATTIC AREA. SUPPORT DUCTWORK ON ROOF AS DETAILED. PROVIDE ALL TRANSITIONS AS REQUIRED. COORDINATE ROUTING WITH ARCHITECT.
16. INSTALL INFRARED TUBE HEATER PER CODE AND MANUFACTURERS REQUIREMENTS. COORDINATE MINIMUM MOUNTING HEIGHTS AND MOUNT AS HIGH AS POSSIBLE. MAINTAIN CLEARANCES TO COMBUSTIBLES. ROUTE DIRECT VENT TO EXTERIOR OF BUILDING AND PROVIDE WITH TERMINATION WALL KIT PER MANUFACTURERS REQUIREMENTS.
17. PROVIDE AN EVAPORATIVE COOLER. INSTALL EVAPORATIVE COOLER ON EQUIPMENT SUPPORT STAND. PROVIDE FLEXIBLE CONNECTOR ON COOLER DISCHARGE DUCT CONNECTION AND TRANSITION TO DUCT SIZE SHOWN. EXTEND DUCT THRU ROOF. PROVIDE DUCT THRU ROOF CURB FOR ROOF PENETRATION. COORDINATE WITH STRUCTURE. FOR EVAP COOLER (EC-5) SUPPORT DUCTWORK ON ROOF AND PROVIDE A MANUAL LOCKING QUADRANT TYPE "WINTER" SHUT-OFF DAMPER IN DUCT ON ROOF. PROVIDE SHEET METAL SUN GUARD OVER FLEX CONNECTOR. REFER TO DETAILS AND EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.



NOTE:
ALL DUCTWORK OUTSIDE OF INSULATED ENVELOPE, INCLUDING SUPPLY, RETURN, EXHAUST, AND TRANSFER DUCTS, SHALL BE WRAPPED WITH MINIMUM R-11 EXTERNAL INSULATION, WITH VAPOR RETARDER WITH ALL JOINTS SEALED (NOTE: FLUES AND VENTS, WHETHER WITHIN OR OUTSIDE OF INSULATED ENVELOPE, SHALL BE UNINSULATED). REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MORE INFORMATION ON INSULATED ENVELOPE.

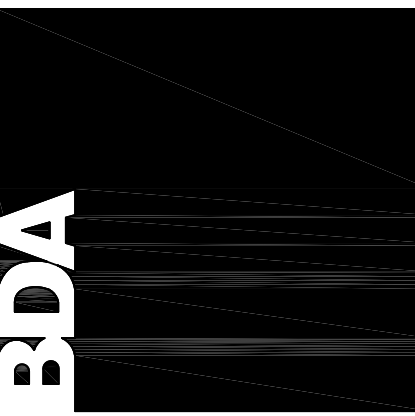
NOTE:
PROVIDE SEISMIC RESTRAINTS/SUPPORTS FOR ALL EQUIPMENT, DUCTWORK, PIPING, ETC., AS REQUIRED BY LOCAL AND STATE CODES.

A1 MECHANICAL HVAC PLAN
1/8"=1'-0"
PROJECT NORTH

Sheet Date: August 24, 2015 - 2:56 PM - Kenna
Plot Date: August 24, 2015 - 2:58 PM
File: M101 - Mechanical Plan (mguel).rvt
Drawing Name: F:\15016 Carson City Animal Services\15016 CAD\Constructors\Mechanical\1016 - M101 - Mechanical Plan (mguel).rvt

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REV.#	DATE	COMMENTS
1	08-24-15	ADDENDUM CLARIFICATION

INITIALS	REVIEWS
BDA DSGN. REV.	BDA TECH. REV.

CCAS
PROJECT NO.: 1107
DRAWN: MAR/KP
DATE: 7/23/2015

M101
OF



AIR COOLED CONDENSING UNIT SCHEDULE

MARK	SERVES	TOTAL COOLING CAPACITY (BTUH)	OUTSIDE AIR TEMP °F	EER	ELECTRICAL DATA				APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #
					VOLT/PHASE	FAN MOTOR	MCA	MOCP		
CU-1	AC-1	21,500	95	12.5	208/1	0.4 FLA	17.5	20	178	DAIKIN RXS24LVJU

GENERAL: MITSUBISHI AND LG ARE CONSIDERED EQUIVALENT UNITS

- NOTES:
- SIZE AND INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNITS AND ASSOCIATED AIR CONDITIONING UNITS ACCORDING TO MANUFACTURER'S REQUIREMENTS. PIPING SHALL NOT EXCEED LENGTH ALLOWED BY MANUFACTURER.
 - ACCESSORIES: HIGH AND LOW AMBIENT CONTROLS, WINTER START CONTROL, WIND BAFFLES, TIME DELAY RELAY, CYCLE PROTECTOR, TXV, LOW AND HIGH PRESSURE SWITCHES.
 - PROVIDE CRANKCASE HEATER AND/OR FILTER DRIER IF RECOMMENDED BY MANUFACTURER.
 - ALL CONDENSING UNIT CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION.
 - EER RATING LISTED IS FOR CONDENSING UNIT PAIRED WITH ASSOCIATED AIR CONDITIONING OR AIR HANDLING UNIT.
 - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - LOW AMBIENT CONTROLS DOWN TO ZERO DEGREES F.
 - FURNISH 7 YEAR COMPRESSOR AND 1 YEAR PARTS AND SERVICE WARRANTY

DUCTLESS SPLIT INDOOR AC UNIT SCHEDULE

MARK	SERVES	MAX. CFM	ENT. DB/WB (°F)	TOTAL COOLING CAPACITY (BTUH)	SENSIBLE COOLING CAPACITY (BTUH)	ELECTRICAL DATA		APPROX. WT. (LBS.)	MANUFACTURER AND MODEL #
						VOLT/PHASE	MCA		
AC-1	TELECOM 104	640	80/67	21,500	19,000	208/1	0.57	46	DAIKIN FTXS24LVJU

- NOTES:
- PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - ELECTRICAL CONTRACTOR SHALL EXTEND LINE VOLTAGE ELECTRICAL SERVICE TO AC UNIT FROM CONDENSING UNIT. INDOOR AC UNIT POWERED THRU OUTDOOR UNIT.

- ACCESSORIES:
- WALL MOUNTED ELECTRONIC PROGRAMMABLE THERMOSTAT.
 - CLEANABLE FACTORY FILTERS.
 - CONDENSATE PUMP.

Tags	Model Number	Nominal Size (Ton)	Airflow (cfm)	Design Outside Air (cfm)	Design ESP (in)	Gross Total Capacity (MBH)	Gross Sensible Capacity (MBH)	Cooling Entering DB (F)	Cooling Leaving Unit WB (F)	Cooling Leaving Unit DB (F)	Ambient Temp (F)	Reheat Capacity (MBH)	Cooling LDB with reheat (F)	Input Heating Capacity (MBH)	Output Heating Capacity @ 4500 ft (MBH)	Heating EAT (F)	Heating LAT (F)	V/Hz/Ph	MCA	MOP	SEER /EER	Unit Operating Weight (lbs)	Elevation (ft)
RTU-1	YHC120E	10	4000	2000	0.6	114	108	90	65	55.7	55	95	0 N/A	250	200	40	90	208/60/3	46	60	12.4	1600	4500
RTU-2	YHC060E	5	2200	550	0.6	61.24	45.01	80	65	59.77	56.31	95	0 N/A	130	85	50	94	208/60/3	27.4	40	14.2	950	4500
RTU-3	YHC092E	7.5	3000	1500	1.0	90	84	90	65	55	55	95	0 N/A	160	132	40	94	208/60/3	42	50	12.6	1300	4500
RTU-4	YHC060E	5	2500	550	0.6	61.24	45.01	80	65	59.77	56.31	95	0 N/A	130	85	50	94	208/60/3	27.4	40	14.2	950	4500

- NOTES:
- ROOFTOP UNIT INDOOR FANS SHALL BE STANDARD MOTOR AND DRIVE WITH BELT DRIVE AND SHALL RUN CONTINUOUSLY DURING BUILDING OPERATION.
 - EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ANY PRESSURE DROP ASSOCIATED WITH ROOFTOP UNIT ACCESSORIES.
 - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. OUTSIDE AIR DAMPER SHALL FULLY CLOSE ON UNIT SHUTDOWN.
 - SMOKE DETECTORS SHALL BE INSTALLED IN SUPPLY AND RETURN SIDES OF RTU-1 THRU RTU-4 BY MECHANICAL DIVISION. DETECTORS TO BE PROVIDED BY ELECTRICAL DIVISION. WIRED TO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL DIVISION. AND WIRED TO UNIT BY ELECTRICAL DIVISION TO SHUT UNIT DOWN UPON SENSING SMOKE. COORDINATE INSTALLATION IN UNIT WITH UNIT MANUFACTURER.
 - PROVIDE ALL UNITS WITH STAINLESS STEEL HEAT EXCHANGER
 - PROVIDE ALL UNITS WITH DRY BULB ECONOMIZER
 - PROVIDE ALL UNITS WITH HIGH ALTITUDE KIT

- ACCESSORIES:
- 14" HIGH FACTORY-FABRICATED MICROMETL INSULATED ROOF CURB, SLOPED TO MATCH PITCH OF ROOF TO ALLOW UNIT TO SIT LEVEL.
 - MICROMETL ECONOMIZER WITH FULLY MODULATING CENTRIFUGAL POWER EXHAUST, FACTORY-WIRED TO ALLOW SINGLE-POINT POWER CONNECTION TO ROOFTOP UNIT. MCA/MOCP LISTED IN SCHEDULE DOES NOT INCLUDE POWER EXHAUST ELECTRICAL LOAD. PROVIDE WITH DUCT PRESSURE SENSOR.
 - COMPRESSOR SHORT CYCLE PROTECTION.
 - ELECTRONIC PROGRAMMABLE THERMOSTAT WITH AUTO HEAT/COOL SWITCHOVER, TIME-OF-DAY SCHEDULING, AND KEYPAD LOCKOUT CAPABILITY. ALL CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY MECHANICAL DIVISION.
 - 2" 30% EFFICIENT FILTERS EQUAL TO FARR 30/30, (2 SETS)
 - CONDENSER COIL HAIL GUARD ASSEMBLY.

DUCT FURNACE SCHEDULE

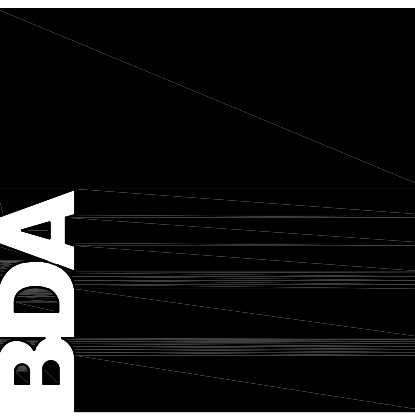
MARK	SERVICE	CFM	SP (IN WC)	POWER SUPPLY	FLA	HEATING DATA		EFFICIENCY	WEIGHT (LBS)	MANUFACTURER AND MODEL #
						SIL INPUT (MBH)	SITE OUTPUT (MBH)			
DH-1	EC-1	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150
DH-2	EC-2	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150
DH-3	NOT USED									
DH-4	EC-4	1,340	0.2	115V/1Ø	1.9	150	98.4	80%	260	MODINE HFP-150

- NOTES:
- INSTALL UNITS ON THY CURBS. INSTALL PER MANUFACTURER'S REQUIREMENTS. PROVIDE DUCT TRANSITIONS AS REQUIRED.
 - PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
 - PROVIDE ALL CONTROL WIRING BETWEEN DUCT FURNACES AND ASSOCIATED CONTROL COMPONENTS (THERMOSTATS, HUMIDISTATS, SENSORS, ETC.) CONTROLS SHALL BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL REQUIRED COMPONENTS NECESSARY TO ACHIEVE AN OPERATIONAL SYSTEM.

- ACCESSORIES:
- ELECTRONIC SPARK IGNITED SAFETY PILOT.
 - ELECTRONIC GAS MODULATION (20%-100%)
 - CONTROL RELAYS AS REQUIRED TO ALLOW HEATING CONTROL BY THERMOSTAT.
 - TWO SEPARATELY ADJUSTABLE DISCHARGE TEMPERATURE SENSORS.
 - 24-VOLT TRANSFORMER.
 - COMBUSTION AIR/VENT RAIN HOODS.
 - DRAIN FLANGE, STAINLESS STEEL HEAT EXCHANGER, AND STAINLESS STEEL BURNERS.

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12/23/15
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City of Carson City
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MECHANICAL SCHEDULES		REV.#	DATE	COMMENTS
REVISION:	1	08-24-2015		ADD/END/UM CLARIFICATION
REVISION:				
REVISION:				
REVISION:				

REVIEWS	
INITIALS	BDA DSGN. REV. BDA TECH. REV.

CCAS
PROJECT NO.: 1107
DRAWN: MAR/CMB
DATE: 7/23/2015

M602
OF

