

Scale: 1/4"=1'-0"	M-100
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MECHANICAL KEY NOTES:

- INSTALL GREASE EXHAUST HOODS FURNISHED BY PANDA. HOOD SHALL BE ONE CAPTIVEAIRE 4824-ND HOOD EXHAUSTING 3,450 CFM. SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT AND ALL THREAD ROD. MOUNT HOOD PER LOCAL CODE REQUIREMENTS. REFER TO PLAN FOR HOOD CONNECTIONS. SEE CODE COMPLIANCE DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE HOOD DRAWINGS FOR ADDITIONAL REQUIREMENTS. (TWO SECTIONS TOTAL).

2 PROVIDE AND INSTALL 22"x14" GREASE EXHAUST DUCT. ROUTE ON TOP OF MAKE UP AIR DUCT. FROM INLET OF ROOF MOUNTED GREASE EXHAUST FAN, CONNECT TO EXHAUST HOOD COLLAR. FIELD VERIFY WRAP WITH THERMAL CERAMIC FIREMASTER DUCT WRAP-OR EQUAL. FABRICATE DUCT FROM 16 GAUGE STEEL WITH WELDED SEAM CONSTRUCTION SEAL TO THE ROOF CURB WITH FIRE CAULKING. SEE HOOD DETAIL. DRAWINGS ON SHEET M-500 AND CAPTIVEAIRE DRAWINGS.

3 MOUNT THERMOSTAT AT MANAGER STATION. REFER TO DETAIL #1 ON SHEET E-200. SEE DWG FOR EXACT LOCATION OF REMOTE SENSOR. SEE ROOFTOP UNIT SCHEDULE AND TEMPERATURE CONTROL DIAGRAM DETAIL 5 ON SHEET M-501 FOR ADDITIONAL INFORMATION. CONFIGURE THE LENNOX C57500 STAT FOR A 20K SENSOR THROUGH THE THERMOSTAT MENU

4 INSTALL GREASE EXHAUST FAN WITH CURB (EF-1 AND EF-2) AND MAKE UP AIR (MA-1) FURNISHED BY PANDA. COORDINATE LOCATION OF UNIT WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

5 PROVIDE AND INSTALL A REMOTE SENSOR FOR ROOFTOP UNIT AT THIS LOCATION. MOUNT REMOTE SENSOR IN RETURN AIR DUCTWORK. SEE TEMPERATURE CONTROL DIAGRAM ON SHEET M-501 FOR ADDITIONAL INFORMATION.

6 PROVIDE AND INSTALL DUCT MOUNTED SMOKE DETECTOR AT MAIN SUPPLY AIR DUCT PER UMC, SEC. 609.09, OR AT RETURN AIR DUCT PER IMC, SECTION 606.2.1. DETECTORS SHALL BE INTERLOCKED TO SHUT DOWN ROOFTOP UNITS UPON DETECTION OF SMOKE. PROVIDE ALL CONTROL WIRING NECESSARY TO PERFORM THIS OPERATION.

7 PROVIDE FLEXIBLE CONNECTION BETWEEN UNIT, ROUTE DUCT THRU ROOF CURB AND TRUSS.

8 FOR GAS OR WATER CONNECTION, SEE PLUMBING DRAWINGS.

9 PROVIDE FABRICATED CURB PER MANUFACTURERS REQUIREMENTS AND COORDINATE EXACT LOCATION OF UNIT IN FIELD. SHIM ROOF CURB LEVEL FOR PROPER CONDENSATE DRAINAGE.

10 FURNISH AND INSTALL ALL TEMPERATURE CONTROL WIRING FROM THE UNIT TO THE THERMOSTAT OR OTHER CONTROL DEVICES.

11 FULL SIZE SA AND RA UP TO RTU. TRANSITION AS REQUIRED TO RTU INLET/OUTLET SIZE.

12 PVC COMBINATION VENT AND COMBUSTION AIR PIPING PROVIDED AND INSTALLED BY PLUMBING FOR SEALED COMBUSTION WATER HEATER. REFER TO PLUMBING PLANS.

13 WATER HEATER CONCENTRIC VENT TERMINATION. REFER TO PLUMBING PLANS. OFFSET AS REQUIRED FOR CLEARANCE FROM AIR INTAKES.

14 ROOF HYDRANT. REFER TO PLUMBING DRAWINGS.

15 ROUTE CONDENSATE DRAIN IN CEILING SPACE OVER AND DOWN IN PRIMARY ROOF DRAIN(S). SLOPE 1/4" PER FOOT.

16 MA DUCT (BELOW MAKE UP AIR) CONNECT TO 23"x10" RISER FROM SUPPLY PLENUM. 1,380 CFM

17 PROVIDE DUCT EXTERNAL INSULATION WRAP AT TRUNK, TYPICAL.

18 CONDENSATE DRAIN LINE DOWN THRU ROOF. REFER TO DETAIL 16/P-500.

19 PROVIDE AND INSTALL ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDED CLEARANCES FOR MAINTENANCE. MAINTAIN MINIMUM CLEARANCES TO ELECTRICAL AND SERVICE ACCESS PANELS AND DISCONNECTS.

20 GREASE DUCT CLEANOUT LOCATION. PROVIDE ACCESS TO CLEANOUT ABOVE CEILING. REFER TO MECHANICAL SPECIFICATIONS SHEET M-000

21 8" CONNECTION TO HOOD RTU SUPPLY PLENUM COLLAR. BALANCE TO 259 CFM.

22 PROVIDE AND INSTALL ACR TUBING, SIZED AND ROUTED PER MANUFACTURER'S INSTRUCTIONS. FROM REMOTE REFRIGERANT CONDENSERS TO WALK-IN COOLER AND FREEZER FAN COILS, AND ICE MAKER. TEST, PURGE, EVACUATE AND CHARGE LINES AS REQUIRED BY MANUFACTURER. (START-UP FOR ICE MAKER IS BY OWNER'S REPRESENTATIVE). ROUTE REFRIGERANT LINES THROUGH "AIR HUB" PROVIDED AND INSTALLED BY GC (REFER TO ARCH. ISO 3 AND 4, SHEET A-108).

23 ROOM AIR SENSOR FROM CAPTIVEAIRE HOOD ON BACK OF MENU BOARD WALL, AS CLOSE TO CEILING AS POSSIBLE.

24 PREFABRICATED GREASE EXHAUST DUCT AVAILABLE AS OPTIONAL ALTERNATIVE TO FIELD FABRICATED GREASE DUCT. SEE HOOD PLANS.

NOTE: MAXIMUM FLEXIBLE DUCT LENGTH ALLOWED SHALL BE PER LOCAL CODE AND AMENDMENTS.

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## REVISIONS:

- 1 | 06.04.2021 ISSUE FOR BID

## ISSUE DATE:

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|---|-----------------------------|
| 1 | 04.29.2021 ISSUE FOR PERMIT |
| 2 | 06.04.2021 ISSUE FOR BID    |

DRAWN BY: SDT

PANDA PROJECT #: - S8-22-D8135  
C&P PROJECT #: - 2200775



06.04.2021

# PANDA EXPRESS

TRUE WARM AND WELCOME 2300  
SKYBROOKE BOULEVARD & STATE ROAD 54  
LUTZ, FL 33558

# M-100

H.V.A.C. FLOOR PLAN &  
H.V.A.C. ROOF PLAN

TRUE WARM &amp; WELCOME 2300 R4