



MECHANICAL FLOOR PLAN - AREA C  
1/8" = 1'-0"

MECHANICAL PLAN NOTES:

- PROVIDE CLOTHES DRYER EXHAUST PER MANUFACTURER'S INSTRUCTIONS. WHERE EXHAUST DUCT PENETRATES WALL, SEAL ANNULAR SPACE WITH APPROVED FIRE GULFING. ROUTE 12"x3" DRYER EXHAUST DUCT UP FROM LINT TRAP AND TRANSITION AT THE STRUCTURE TO 8" ROUND DUCT AS SHOWN. END DRYER VENT WITH A GOOSENECK ON ROOF AND BACKDRAFT DAMPER. PROVIDE AN ACCESS DOOR IN DUCT ABOVE WALL CHASE. DUCTWORK SHALL BE ASSEMBLED TO THE INTERIOR SURFACES ARE SMOOTH.
- FLOW BAR SHALL BE INSTALLED IN LAY-IN CEILING. COORDINATE FINAL LOCATION WITH ARCHITECT.
- 14X14 EXHAUST DUCT UP TO KEF 1 ON ROOF.
- 14X14 EXHAUST DUCT UP TO KEF 2 ON ROOF.
- SUPPLY GRILLE ABOVE COOLER/FREEZER CEILING.
- MOUNT FAN COIL UNIT SUCH THAT BOTTOM OF UNIT IS A MAXIMUM OF 12" ABOVE THE LIGHTS AND BETWEEN THE LIGHTS.
- VERIFY SERVICE CLEARANCE WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
- SHEET METAL DUCT, FULL SIZE OF UNIT RETURN AIR OPENING. LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS SHOWN.
- PROVIDE STAINLESS STEEL EXHAUST DUCT DOWN TO TYPE II HOOD AND UP TO EXHAUST FAN ON ROOF. SLOPE EXHAUST DUCT 1/4" PER FOOT TOWARD HOOD. PROVIDE TRANSITIONS AS REQUIRED TO HOOD AND EXHAUST FAN CONNECTIONS.
- PROVIDE HOOD FIRE SUPPRESSION MANUAL. FULL STATION. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE SUPPRESSION SYSTEM INSTALLER AND THE AUTHORITY HAVING JURISDICTION.
- PROVIDE STAINLESS STEEL DUCT FOR DISHWASHER EXHAUST.
- PROVIDE WATER HEATER EXHAUST FLUE, INTAKE DUCT, AND MANUFACTURER'S CONCENTRIC VENT TERMINATION KIT. INSTALL TERMINATION IN COMPLIANCE WITH LOCAL CODES AND MINIMUM 10'-0" SEPARATION FROM ALL AIR INTAKES. REFER TO SPECIFICATIONS AND MANUFACTURER REQUIREMENTS FOR APPROVED FLUE MATERIALS FOR UNIT OPERATING TEMPERATURE.
- MOUNT TEMPERATURE SENSOR INSIDE WALK-IN COOLER/FREEZER.
- CONTRACTOR SHALL PROVIDE A CO2 MONITORING STATION BY LOGIC02 MODEL MK9 DETECTION SET COMPLETE WITH (1) CENTRAL UNIT, (4) SENSORS, (4) REMOTE HORNSTROBES, PLUG-IN POWER SUPPLY, AND ALL REQUIRED CONNECTORS AND CABLES FOR A COMPLETE WORKING SYSTEM. FIELD VERIFY REQUIRED CABLE LENGTH FOR CONNECTION BETWEEN COMPONENTS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WIRING DIAGRAM AND OTHER REQUIREMENTS.
- PROVIDE BOOSTER FAN FANTECH MODEL D86110 OR APPROVED EQUAL. INTERLOCK WITH DRYER, REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS.
- GREASE EXHAUST DUCT UP TO KEF 3 ON ROOF.
- GREASE EXHAUST DUCT UP TO KEF 4 ON ROOF.
- INSTALL TEMPERATURE SENSOR AND HUMIDITY SENSOR WITHIN RETURN AIR BOOT.
- PROVIDE RADIAL ELBOWS WITHOUT TURNING VANES FOR TYPE I GREASE HOOD EXHAUST DUCTWORK. SLOPE GREASE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAR FOOT. PROVIDE TRANSITIONS AS REQUIRED TO HOOD AND EXHAUST FAN CONNECTIONS. GREASE DUCTS SHALL BE CONTAINED IN A UL APPROVED GREASE WRAP SYSTEM.
- PROVIDE GREASE EXHAUST DUCT CLEANOUTS ON SIDE OF DUCT. PROVIDE ADDITIONAL CLEANOUTS AS NEEDED PER CODE REQUIREMENTS. LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS, OR AS REQUIRED TO FACILITATE CLEANING. COORDINATE WITH ALL TRADES TO AVOID BLOCKING ACCESS POINTS.
- EXHAUST DUCT UP TO KEF 5 ON ROOF.
- VERIFY FINAL HOOD EXHAUST COLLAR CONNECTION SIZES, AIRFLOWS AND QUANTITIES WITH MANUFACTURER'S HOOD SUBMITTALS. CONTRACTOR SHALL PROVIDE BRANCH DUCT CONNECTIONS TO EACH HOOD COLLAR AS NECESSARY, SIZED SAME AS HOOD COLLAR CONNECTION.
- REFER TO FOOD SERVICE DRAWINGS FOR HOOD DESIGN INFORMATION. TYPE I HOODS SHALL BE FURNISHED COMPLETE WITH INTERNALLY PIPED FIRE SUPPRESSION SYSTEM AND EXTERNAL FOAM SUPPLY BOTTLES WITH REMOTE PULL STATION CONTROLS AND IN COMPLIANCE WITH NFPA 96. DIVISION 23 SHALL COORDINATE COMPLETE INSTALLATION WITH FIRE PROTECTION CONTRACTOR TO MEET APPROVAL OF LOCAL INSPECTOR AND CODE COMPLIANCE INCLUDING TESTING.
- INSTALL TEMPERATURE SENSOR AND HUMIDITY SENSOR WITHIN VERTICAL DUCT OF RETURN AIR GRILLE.
- BALANCE HOOD MAKEUP AIR TAPS TO 520 CFM EACH.
- STAINLESS STEEL BACKSPASH TO COVER ENTIRE WALL FACE FLOOR TO CEILING WITH MINIMUM 48" WIDE PANELS. ENSURE STAINLESS STEEL ALIGNS WITH HOOD.
- BALANCE HOOD MAKEUP AIR TAPS TO 710 CFM EACH.
- BALANCE HOOD MAKEUP AIR TAPS TO 720 CFM EACH.
- BALANCE HOOD MAKEUP AIR TAPS TO 730 CFM EACH.



A DEVELOPMENT OF  
Buc-ee's Benton, LLC  
Saline County, AR  
TEL: (979) 230-2920

BUC-EE'S TRAVEL CENTER  
BENTON, ARKANSAS

74K - L - 2024 - Q2  
INTERSTATE 30 & STATE HIGHWAY 229  
BENTON, ARKANSAS 72019

LAWRENCE S.  
LEVINSON, A.I.A.

7800 Washington Ave., Suite 600 Houston, TX 77007  
main: 713.600.3600 www.lsearc.com

**HENDERSON**  
ENGINEERS  
8345 LEXENIA DRIVE, SUITE 300  
LENSA, KS 66214  
TEL 913.742.5000 FAX 913.742.5001  
WWW.HENDERSONENGINEERS.COM  
245001433  
AR CORPORATE NO. 484  
EXPIRES 12/31/2025

ISSUE/REVISION LOG:

No.	DESCRIPTION	DATE
1	Revision 1 - Owner Changes	09/09/2024
3	Revision 3 - Owner Changes	04/23/2025



ISSUED FOR REVIEW:	05/14/2024
ISSUED FOR BID:	05/14/2024
ISSUED FOR PERMIT:	05/14/2024

Copyright 2024 Lawrence S. Levinson, AIA. Warning: This document is protected by U.S. Copyright Law Under Section 102 of the U.S. Copyright and the Architectural Works Copyright Protection Act of 1990. Unauthorized reproduction and distribution of this document or any portion of it, other than for use of this particular project, is prohibited and may result in severe civil and criminal penalties, and will be prosecuted to maximum extent possible under the law.

M1.03

MECHANICAL FLOOR PLAN -  
AREA C

LSL PROJECT NUMBER: 2024-107.000

BENTON, ARKANSAS

KEY PLAN

