



BUC-EE'S

A DEVELOPMENT OF

Buc-ee's Benton, LLC
Saline County, AR

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BUC-EE'S TRAVEL CENTER
BENTON, ARKANSAS
74K - L - 2024 - Q2
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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



4/24/2025

ISSUED FOR REVIEW: 05/14/2024

ISSUED FOR BID: 05/14/2024

ISSUED FOR PERMIT: 05/14/2024

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M6.01

MECHANICAL SCHEDULES

LSL PROJECT NUMBER: 2024-107.000

BENTON, ARKANSAS

ENERGY RECOVERY VENTILATION UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	UNIT TYPE	SUPPLY FAN				EXHAUST FAN				ELECTRICAL				SUMMER EXHAUST				SUMMER SUPPLY				WINTER EXHAUST				WINTER SUPPLY				WEIGHT (LBS)	NOTES
				FAN TYPE	CFM	ESP (IN)	BHP	NOM HP (Y/N)	V/FH	FLA (MBH)	SH (MBH)	EAT (°F DB)	LAT (°F WB)	(°F DB)	(°F WB)	EAT (°F DB)	LAT (°F WB)	(°F DB)	(°F WB)	EAT (°F DB)	LAT (°F WB)	(°F DB)	(°F WB)	EAT (°F DB)	LAT (°F WB)	(°F DB)	(°F WB)	EAT (°F DB)	LAT (°F WB)	(°F DB)	(°F WB)		

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- A. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS IN EACH AIRSTREAM.
B. MANUFACTURER TO PROVIDE SLOPED CURB WITH MINIMUM HEIGHT REQUIRED TO MAINTAIN BOTTOM OF EQUIPMENT A MINIMUM OF 16 INCHES ABOVE FINISHED ROOF SURFACE. PROVIDE SLOPED CURB IF NEEDED TO MATCH ROOF SLOPE. COORDINATE WITH ROOF INSULATION THICKNESS AND ROOF TAPER AT INSTALLED LOCATION. COORDINATE CURB TYPE WITH DRAWINGS.
C. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT AND CURB.
D. PROVIDE SHAFT GROUNDING SYSTEM ON MOTOR. REFER TO MOTOR SPECIFICATION FOR ADDITIONAL INFORMATION.
E. PROVIDE POWER CONNECTION FOR SUPPLY FAN AND SEPARATE POWER CONNECTION FOR EXHAUST FAN.
F. UNIT SHALL BE DRAWN THRU CONFIGURATION.
G. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
H. VALVE Cv IS BASED ON SPECIFIC GRAVITY OF PROPYLENE GLYCOL AT A CONCENTRATION OF 25% PROPYLENE GLYCOL.
I. ENTERING AIR TEMPERATURES ARE BASED OFF OF UNCONDITIONED OUTSIDE AIR FOR CONTINGENCY SITUATIONS WHEN THE OAS IS NOT OPERATING.
J. PROVIDE LOW VELOCITY INTAKE HOOD WITH FLOW ELIMINATORS BY THYBAR CORPORATION SIZED FOR UNIT AIRFLOW TO MITIGATE SNOW INTRUSION.
K. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
L. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT.

OUTSIDE AIR UNIT SCHEDULE (CHILLED WATER COOLING - 25% PROPYLENE GLYCOL, HOT WATER HEATING - 25% PROPYLENE GLYCOL)

MARK	MANUFACTURER	MODEL	UNIT TYPE	SUPPLY FAN				TH	SH	EAT				LAT				COOLING COIL				HEATING COIL				MIN O/A CFM	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
				FAN TYPE	CFM	ESP (IN)	NOM HP (Y/N)			(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	ROWS	NO OF COILS				

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. TRANE EQUIPMENT IS THE BASIS FOR THE DESIGN.

NOTES:

- A. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS.
B. PROVIDE WITH BACK INLET CONNECTION.
C. PROVIDE WITH FRONT OUTLET CONNECTION.
D. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. ESP EXCLUDES UNIT INLET AND OUTLET OPENING LOSSES.
E. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
F. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
G. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
H. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
I. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
J. VALVE Cv IS BASED ON SPECIFIC GRAVITY OF PROPYLENE GLYCOL AT A CONCENTRATION OF 25% PROPYLENE GLYCOL.
K. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
L. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT.

AIR HANDLING UNIT SCHEDULE (CHILLED WATER COOLING - 25% PROPYLENE GLYCOL, HOT WATER HEATING - 25% PROPYLENE GLYCOL)

MARK	SERVICE	MANUFACTURER	MODEL	UNIT TYPE	SUPPLY FAN				TH	SH	EAT				LAT				COOLING COIL				HEATING COIL				MIN O/A CFM	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
					FAN TYPE	CFM	ESP (IN)	NOM HP (Y/N)			(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	ROWS	NO OF COILS				

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. TRANE EQUIPMENT IS THE BASIS FOR THE DESIGN.

NOTES:

- A. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS.
B. PROVIDE WITH BACK INLET CONNECTION.
C. PROVIDE WITH FRONT OUTLET CONNECTION.
D. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. ESP EXCLUDES UNIT INLET AND OUTLET OPENING LOSSES.
E. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
F. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
G. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
H. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
I. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
J. VALVE Cv IS BASED ON SPECIFIC GRAVITY OF PROPYLENE GLYCOL AT A CONCENTRATION OF 25% PROPYLENE GLYCOL.
K. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
L. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT.

FAN COIL UNIT SCHEDULE (CHILLED WATER COOLING - 25% PROPYLENE GLYCOL, HOT WATER HEATING - 25% PROPYLENE GLYCOL)

MARK	MANUFACTURER	MODEL	CFM	ESP (IN)	BHP	NOM HP	TH (IN)	SH (MBH)	EAT				LAT				COOLING COIL				HEATING COIL				HTG WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	MIN O/A CFM	V/FH	MCA	MOCP	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
									(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	ROWS	NO OF COILS											

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NOTES:

- A. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS.
B. PROVIDE WITH BACK INLET CONNECTION.
C. PROVIDE WITH FRONT OUTLET CONNECTION.
D. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. FILTER LOSS IS AT A MAXIMUM OF 400 FPM FACE VELOCITY.
E. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
F. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
G. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
H. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
I. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
J. VALVE Cv IS BASED ON SPECIFIC GRAVITY OF PROPYLENE GLYCOL AT A CONCENTRATION OF 25% PROPYLENE GLYCOL.
K. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
L. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT.

MAKEUP AIR UNIT SCHEDULE (CHILLED WATER COOLING - 25% PROPYLENE GLYCOL, HOT WATER HEATING - 25% PROPYLENE GLYCOL)

MARK	MANUFACTURER	MODEL	UNIT TYPE	SUPPLY FAN				TH	SH	EAT				LAT				COOLING COIL				HEATING COIL				MIN O/A CFM	DISC TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
				FAN TYPE	CFM	ESP (IN)	NOM HP (Y/N)			(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	ROWS	NO OF COILS				

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NOTES:

- A. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS.
B. PROVIDE WITH BACK INLET CONNECTION.
C. PROVIDE WITH FRONT OUTLET CONNECTION.
D. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT. ESP EXCLUDES UNIT INLET AND OUTLET OPENING LOSSES.
E. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
F. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
G. PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.
H. PROVIDE AUXILIARY DRAIN PAN WITH FLOOD DETECTOR SWITCH TO SHUT OFF UNIT WHEN WATER IS PRESENT IN DRAIN PAN.
I. DIVISION 23 TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL VALVE SIZED USING THE SCHEDULED CONTROL VALVE AUTHORITY FLOW COEFFICIENT (Cv).
J. VALVE Cv IS BASED ON SPECIFIC GRAVITY OF PROPYLENE GLYCOL AT A CONCENTRATION OF 25% PROPYLENE GLYCOL.
K. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
L. PROVIDE HEATER TO MEET OR EXCEED SCHEDULED MINIMUM MBH OUTPUT.

ROOFTOP UNIT SCHEDULE (DX COOLING)

MARK	MANUFACTURER	MODEL	NOMINAL TONS	UNIT TYPE	SUPPLY FAN				TH	SH	EAT				LAT				COOLING COIL				ELECTRICAL				WEIGHT (LBS)	NOTES
					CFM	ESP (IN)	BHP	NOM HP (Y/N)			(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	(°F DB)	(°F WB)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX WPD (°F)	VALVE Cv	MAX APD (°F)	MAX VEL (FPM)	ROWS	NO OF COILS	

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER, MODEL NUMBERS, OR NOMINAL TONS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:

- A. REFER TO ROOFTOP UNIT CONTROL MATRIX FOR ADDITIONAL UNIT FEATURES, COMPONENTS, MODULES, ACCESSORIES, AND CONTROLS THAT SHALL BE PROVIDED WITH THE EQUIPMENT.
B. EQUIPMENT SIZED FOR 105°F AMBIENT TEMPERATURE.
C. PROVIDE 4" MERV 13, PLEATED THROWAWAY AIR FILTERS.
D. PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
E. COORDINATE SIZE OF CONDUCTOR TERMINATION LUGS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
F. PROVIDE SINGLE POINT POWER CONNECTION.
G. PROVIDE 125 VAC, 20 AMP DUPLEX CONVENIENCE RECEPTACLE MOUNTED TO UNIT READY FOR FIELD WIRING WITH A COVER UL LISTED FOR WET AND DAMPER LOCATIONS WHEN IN USE.
H. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
I. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
J. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
K. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
L. PROVIDE MOTOR HORSEPOWER TO OVERCOME INTERNAL UNIT STATIC PRESSURE DROP PLUS SPECIFIED EXTERNAL STATIC PRESSURE DROP. NOMINAL MOTOR HP SHALL BE NO LARGER THAN THE FIRST AVAILABLE NOMINAL MOTOR SIZE GREATER THAN THE REQUIRED BHP.
M. SCHEDULED WEIGHT IS THE MAXIMUM ALLOWABLE OPERATING WEIGHT OF THE EQUIPMENT AND CURB.
N. COOLING COIL LAT IS LEAVING AIR TEMPERATURE OF COIL.
O. PROVIDE GUARDS TO PROTECT CONDENSER COIL FROM HAIL OR OTHER DAMAGE.