ATTENTION ALL BIDDERS

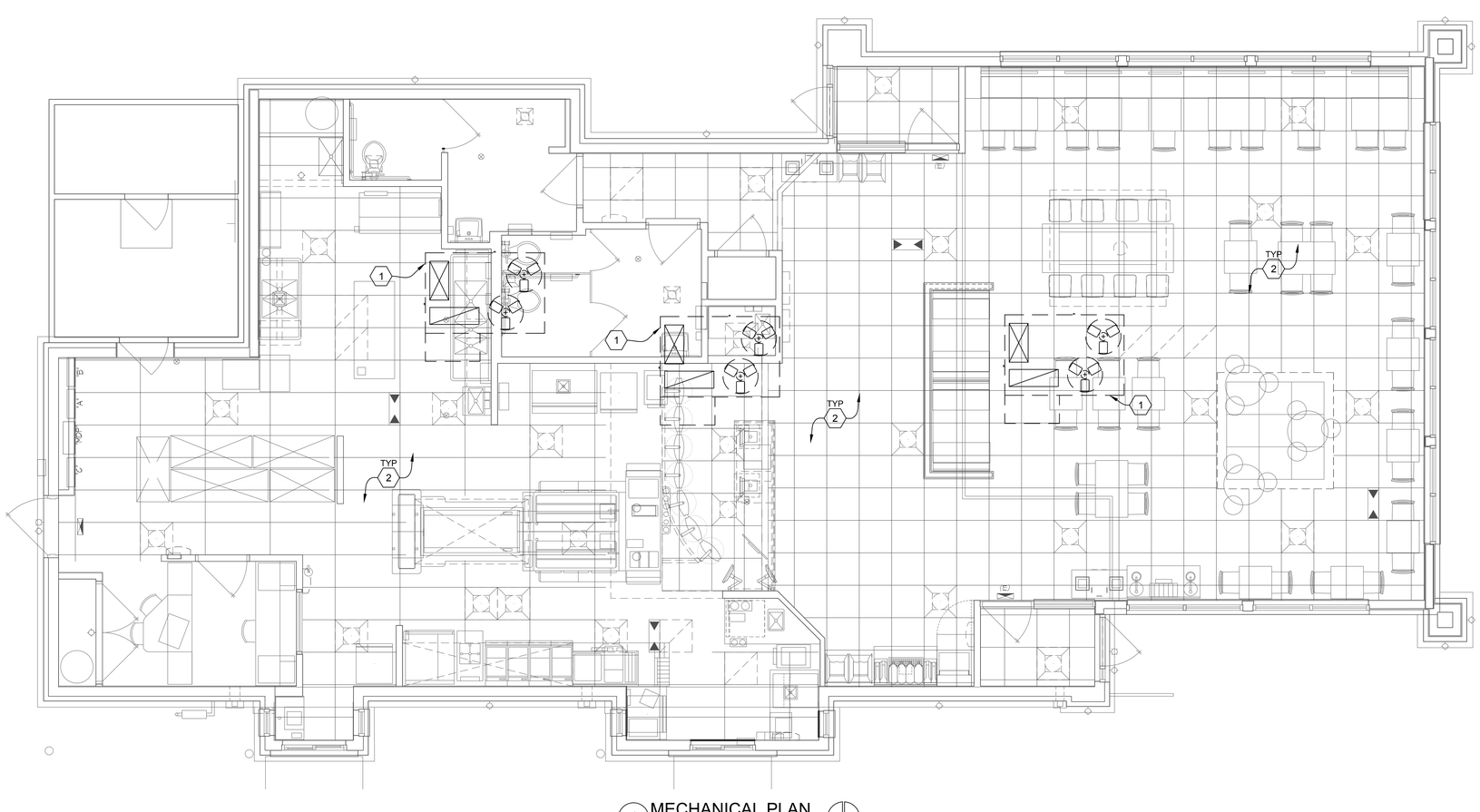
REFER TO WENDY'S APPROVED
SUPPLIER LIST TO OBTAIN
NATIONAL ACCOUNT PHONE
NUMBERS AND CONTACTS

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	DIFFUSER
	RETURN AIR GRILLE
	RETURN OR EXHAUST DUCT UP
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT DOWN
	ROUND DUCT DOWN
	ROUND DUCT UP
	VANED ELBOW
	LOW PRESSURE FLEX DUCT
	45° TAKEOFF FITTING
	MANUAL VOLUME DAMPER

SYMBOL	DESCRIPTION
X / X	EQUIPMENT MARK / EQUIPMENT NUMBER
X / X	INDICATES DETAIL, PLAN, SECTION, AND/OR DIAGRAM(APPLIES ONLY WHERE INDICATED ON DRAWINGS) / INDICATES DRAWING ON WHICH DETAIL APPEARS
TYP / X	INDICATES TYPICAL DETAIL (APPLIES TO ALL CONTRACT DRAWINGS) / INDICATES DRAWING ON WHICH DETAIL APPEARS
X / X	INDICATES SECTION NUMBER / INDICATES ON WHICH DRAWING SECTION APPEARS
X	INDICATES REVISION & NUMBER
	CONNECT NEW TO EXISTING
#	SHEET NOTE NUMBER
CSD 10x10 300	MARK NECK SIZE CFM
T	THERMOSTAT
S	SENSOR
UC	DOOR UNDERCUT

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
COMP	COMPRESSOR
DB	DRY BULB
DN	DOWN
DX	DIRECT EXPANSION
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
ETC	AND SO FORTH
ETR	EXISTING TO REMAIN
EX	EXHAUST
°F	DEGREES FAHRENHEIT
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
GRS/LB	GRAINS PER POUND
HP	HORSEPOWER
HZ	HERTZ
IN	INCHES
KW	KILOWATT
MBH	THOUSANDS OF BTU PER HOUR
MIN	MINIMUM
NEG	NEGATIVE
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
PH	PHASE
PSI	POUNDS PER SQUARE INCH
RH	RELATIVE HUMIDITY
SA	SUPPLY AIR
SH	SENSIBLE HEAT
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCUT
VOLT	VOLTAGE
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN



1 MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE WARRANTY TO INCLUDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER SUBSTANTIAL COMPLETION OR OWNER ACCEPTANCE OF THE COMPLETED PROJECT.
2. INSULATED FLEXIBLE DUCT MAY BE USED IN MAXIMUM LENGTHS OF 5'-0" PER BRANCH RUN, FROM RIGID METAL DUCT TO DIFFUSER CONNECTION. FLEXIBLE DUCT SHALL BE CLASS 1 FLEXIBLE AIR DUCT WITH INSULATION AND VAPOR BARRIER.
3. SPIN-IN FITTING WITH DAMPER SHALL BE FLEXAIRE RF OR METALAIRE MBSD, TYPICAL OF ALL BRANCH DUCT RUNS. MANUAL BALANCE DAMPERS SHALL BE IN AN ACCESSIBLE LOCATION. COORDINATE WITH GENERAL CONTRACTOR.
4. DUCTWORK DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. ALL SUPPLY AND RETURN DUCTWORK SHOWN IS TO BE INSULATED WITH 2" DUCT WRAP, INCLUDING THE TOP OF THE DIFFUSERS. THE INSULATION SHALL HAVE A MINIMUM R-VALUE OF 5.
5. COMPLETED INSTALLATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES INCLUDING, BUT NOT LIMITED TO THE LATEST EDITIONS OF THE FOLLOWING: STATE BUILDING CODE, NFPA-90A, NFPA-96 AND NFPA-101.
6. ALL DUCTWORK IS TO BE INSTALLED PER SMACNA SPECIFICATIONS.
7. ALL 90 DEGREE BENDS IN SUPPLY AIR DUCTS TO HAVE TURNING VANES.
8. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR MORE INFORMATION.
9. DUCTWORK TO BE RUN ABOVE THE SUSPENDED CEILING. WHENEVER POSSIBLE ALL DUCTWORK RUNNING PARALLEL TO THE ROOF JOIST SHALL BE RAISED UP AND RUN BETWEEN THE JOISTS, EXCEPT EXPOSED DUCTWORK.
10. CONTRACTOR TO VISIT THE SITE PRIOR TO BID AND VERIFY ALL PERTINENT EXISTING CONDITIONS.
11. ANY DAMAGES TO ANY EXISTING WALLS, FLOORS, FINISHES ETC. BY THIS CONTRACTOR ARE TO BE REPAIRED AT THIS CONTRACTOR'S EXPENSE.
12. CLEAN AND REFURBISH ALL EXISTING UNITS, EXHAUST FANS, DUCT ACCESSORIES, AND CONTROLS TO LIKE NEW CONDITION.
13. CLEAN AND REFURBISH ALL DUCTWORK AND DAMPERS.
14. RELOCATE EXISTING THERMOSTATS/SENSORS AS NEEDED. EXTEND EXISTING WIRE AS REQUIRED. REPAIR OR REPLACE AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
15. REFURBISH RESTROOM EXHAUST FANS TO LIKE NEW CONDITION. REPAIR/REPLACE AS REQUIRED EXTEND EXISTING RESTROOM DUCTWORK AS REQUIRED FOR NEW LOCATION.
16. CONTRACTOR TO RE-BALANCE ALL UNITS/HOODS/FANS SUCH THAT THE KITCHEN AREA IS NEGATIVE TO THE DINING AREA BUT THE BUILDING AS A WHOLE MAINTAINS POSITIVE PRESSURIZATION.
17. G.C. TO VERIFY EXISTING ANSUL FIRE SUPPRESSION SYSTEM AT HOODS IS COMPLIANT.
18. PROVIDE STENCIL LABELS ON ROOFTOP UNITS AND EXHAUST FANS. LABELS SHALL HAVE 2" HIGH LETTERS ON UNIT SIDE ACCESS PANEL. ALL EXPOSED GAS PIPING AND FITTINGS SHALL BE PAINTED WITH SAFETY YELLOW PAINT DESIGNED FOR BLACK IRON.
19. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.
20. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISERS AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.
21. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

CODED NOTES

1. EXISTING ROOFTOP UNIT TO BE REPLACED WITH NEW ROOFTOP UNIT OF EQUAL CAPACITY. CONNECT TO EXISTING DUCTWORK PROVISIONS. PROVIDE PROPER BALANCING FOR VENTILATION AND SUPPLY AIR FOR COMPLETE AND FULL OPERATION. SHOWN FOR REFERENCE ONLY, FIELD VERIFY EXACT LOCATION. INSTALL PER MANUFACTURE INSTALLATION INSTRUCTIONS.
2. ALL EXISTING MECHANICAL EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE. CLEAN AND REFURBISH EXISTING EQUIPMENT AND ASSOCIATED PROVISIONS TO LIKE NEW CONDITION.

SITE NUMBER:	09718
BUILDING TYPE:	E2000
ASSET TYPE:	FREESTANDING
CLASSIFICATION:	REFRESH LT
OWNER:	WEND AMERICAN GROUP
BASE VERSION:	2020 SUMMER
UPGRADE CLASSIFICATION:	N/A
PROJECT YEAR:	2021
DESIGN TYPE:	(2.0) UM BRIGHT
DRAWING RELEASE:	SUMMER 2020

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT THE JOB SITE AND NOTIFY THE ARCHITECTS OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING OR FABRICATING ANY WORK
DO NOT SCALE DRAWINGS

MEP Engineer of Record
Brian J. Timmons, P.E.
14817 West 95th Street ◆ Lenexa, Kansas 66215
P 913 322 5150 ◆ F 913 322 5155
Proj# 212.0149

PROJECT TYPE: E2000 REFRESH LT

Wendy's

09718 (FLYNN # 6060)
10989 NO TOWN CENTER BLVD
HIGHLAND, UT 84003

REV.	DATE	DESCRIPTION

ISSUE DATE: 06/03/2021
PROJECT NUMBER: 21-41
DRAWN BY: CW/CS
CHECKED BY: CF/AR

SEAL

PROFESSIONAL ENGINEER
BRIAN J. TIMMONS
No. 6894087-2202
STATE OF UTAH
06/03/21

SHEET NAME
MECHANICAL PLAN

SHEET NUMBER
M1.1

6/3/2021, 6:08 PM, G:\Wendy's - Flynn\212\0148 Wendy's - Highland, UT #6060 (Active)\Sheets\M1.1 MECHANICAL PLAN.dwg, cameronshanks