GENERAL PROJECT DATA

PROJECT DESCRIPTION:

RENOVATION OF EXISTING RESTAURANT SPACE AND KITCHEN SPACE.

ZONING DISTRICT:

G-2

APPLICABLE CODES:

2018 IBC
2018 IEBC
2018 IECC
2018 IMC
2018 IPC
2018 IFGC
NEC 2020
CITY OF STEAMBOAT CDC
ICC/ANSI A117.1 (2003)
ADAAG 2010

SHEET INDEX

PROJECT TEAM

OWNER:

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BID/PERMIT SET

FOR

STEAMBOAT SKI & RESORT CORPORATION

LAST TRACKS AT TORIAN PLUM BUILDING C

AT:

1847 SKI TIME SQUARE DR #C2C

LEGAL DESCRIPTION:

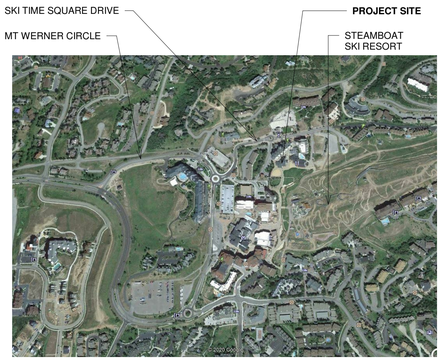
UNIT C-2C BLDG C
TORIAN PLUM CONDO AMENDED

COUNTY OF ROUTT, STATE OF COLORADO

GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSION AND CONDITIONS IN FIELD. DISCREPANCIES IN DIMENSIONS, EXISTING CONDITIONS AND FIELD MEASUREMENTS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK.
2. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE OF WALL UNLESS NOTED OTHERWISE.
3. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION MEETS OR EXCEEDS APPLICABLE CODES AND STANDARD PRACTICES, INCLUDING ALL FEDERAL, STATE AND LOCAL BUILDING REQUIREMENTS.
4. CONTRACTOR TO VERIFY TEMPERED GLAZING PROVIDED AT NEW DOORS AND WINDOWS PER CODE.
5. CONTRACTOR TO VERIFY MANUFACTURES INSTRUCTIONS AND PROCEDURES FOR INSTALLATION OF ALL MATERIALS & EQUIPMENT.
6. ALL WORK CONNECTED WITH THIS PROJECT BY ANY TRADE INVOLVED SHALL BE DONE IN A WORKMANSHIP TYPE MANNER IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
7. CONTRACTOR SHALL PROVIDE JOB SITE CLEAN UP. SORT AND RECYCLE JOBSITE DEBRIS TO THE FULLEST EXTENT POSSIBLE INCLUDING CARDBOARD, STEEL, WOOD, ACOUSTICAL TILE, GLASS AND GYPSUM BD. CLEAN AND REMOVE CONSTRUCTION DEBRIS FROM THE SITE ON A DAILY BASIS. UPON JOB COMPLETION, LEAVE THE SITE IN A NEAT AND ORDERLY CONDITION. PROVIDE TRASH REMOVAL FOR PROJECT RELATED WORK BY SUBCONTRACTORS, ETC.
8. ALL PERMITS (OCCUPANCY, ELECTRICAL, PLUMBING AND ALL OTHERS) REQUIRED BY STATE AND LOCAL CODES, EXCEPT THOSE ACQUIRED BY SUBCONTRACTORS, ARE TO BE SECURED BY THE GENERAL CONTRACTOR WITH COPIES TO OWNER WITHOUT EXTRA CHARGE. ALL PERMITS ACQUIRED BY SUBCONTRACTORS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR FOR RECORD.
9. EACH TRADE SHALL VERIFY ALL REQUIREMENTS PERTAINING TO WORK PERFORMED IN THE PROJECT AND ANY REQUIRED PERMITS. ALL SUBCONTRACTORS SHALL DIRECT QUESTIONS, CHANGES OR REQUESTS THROUGH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SUBMIT ALL REQUESTS, CHANGES OR QUESTIONS TO THE ARCHITECT IN WRITING.
10. NO UTILITY OR DATA SERVICES MAY BE DISCONNECTED WITHOUT FIRST CONTACTING THE FACILITY MANAGER IN ADVANCE FOR AUTHORIZATION.
11. ALL EGRESS PATHS SHALL REMAIN OPEN AND AVAILABLE TO OWNER AND GUESTS.
12. IF UNANTICIPATED MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL ELEMENTS OR ANY OTHER CONDITIONS ARE ENCOUNTERED WHICH MIGHT CONFLICT WITH THE INTENDED FUNCTION OF THE RENOVATION CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. COORDINATE ACTIVITIES WITH THE FACILITY MANAGER IN ADVANCE OF DOING WORK.
13. COORDINATE WORK OF DISCIPLINES, (ARCH., STRUCT., ELECT., MECH., PIPING, ETC.) WITH EXISTING CONDITIONS, SPECIAL REQUIREMENTS AND CONSTRUCTION SCHEDULE.
14. PROVIDE, ERECT AND MAINTAIN TEMPORARY WORK AS MAY BE REQUIRED FOR PROTECTION OF THOSE IN OR ABOUT THE BUILDING.
15. PROVIDE BARRICADES, PLASTIC COVERS, DUST BARRIERS, WARNING SIGNS, FIRE EXTINGUISHERS AND OTHER NECESSARY EQUIPMENT FOR THE PROTECTION AND SAFETY OF PERSONNEL, MATERIALS AND EQUIPMENT IN THE AREA.
16. EACH CONTRACTOR SHALL INCLUDE COST OF MATERIAL AND LABOR NECESSARY TO PROVIDE ALL REQUIRED SUPPORTS, BEAMS, ANGLES, HANGERS, RODS, BASES, BRACES, CHANNELS, ETC. TO PROPERLY SUPPORT HIS CONTRACT WORK.
17. PROVIDE ADEQUATE SUPPORTING BLOCKING AT ALL OF THE FOLLOWING LOCATIONS BUT NOT LIMITED TO: T.V. MOUNTING LOCATIONS, HOOKS, MIRRORS, CASEWORK, FAUCETS, SHELVES, TOILET PARTITIONS, ETC.

VICINITY MAP



NTS
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STATE OF COLORADO
ERIC P. SMITH
B-1172
MAY 17 2021
LICENSED ARCHITECT

NOTICE: DUTY OF COOPERATION

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REVISIONS

No.	Description	Date

SSRC - TORIAN BLDG C
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STEAMBOAT SPRINGS, COLORADO

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Job Number:	21027
Date:	5/14/21
Drawn By:	Author
Checked By:	Checker

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
PROJECT COVER SHEET

Sheet Number
AG001

2018 IBC CODE REVIEW

TYPE OF CONSTRUCTION:
EXISTING BUILDING TYPE III-B
NON-SPRINKLERED

OCCUPANCY CLASSIFICATION:
M (MERCANTILE)
B (BUSINESS)

CHAPTER 5 GENERAL BUILDING HEIGHT & AREA:

TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE
OCCUPANCY (A, B, M, S, U) 55 FT

TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE
OCCUPANCY (B) 3 STORIES
OCCUPANCY (M) 2 STORIES

TABLE 506.2 ALLOWABLE AREA FACTOR IN SQUARE FEET
OCCUPANCY (B) 19,000 SF
OCCUPANCY (M) 12,500 SF

506.2.4 MIXED OCCUPANCY, MULTISTORY BUILDINGS
USING M AS THE MOST RESTRICTIVE OCCUPANCY
Aa = [At + (NS x If)]
Aa = [12,500 + (12,500 x .75)]
Aa = 21,875 SF
21,875 x 2 STORIES = 43,750 SF TOTAL

506.3.2 MINIMUM FRONTAGE DISTANCE
FRONTAGE TO BUILDING ON SAME SITE TO BE 20' OR MORE
PERIMETER MEASURED AT RIGHT ANGLES FROM THE BUILDING FACE TO:
- ENTIRE WIDTH OF PUBLIC WAY
- EXTERIOR FACE OF ADJACENT BLDG ON SAME PROPERTY.

PERIMETER - 495'-0"
PERIMETER WITH 30' CLEAR WIDTH = 495'-0"

W = (La x Wa) + (Lb x Wb) / F
W = (122.75 X 30) + (122.75 X 30) + (124.75 X 30) + (124.75 X 30) / 495
W = 3682.5 + 3682.5 + 3742.5 + 3742.5 / 495
W = 30

506.3.3 AMOUNT OF INCREASE
If = [F/P - 0.25] W/30
If = AREA FACTOR INCREASE DUE TO FRONTAGE
F = BLDG PERIMETER WITH MIN 20'
P = PERIMETER OF ENTIRE BLDG
W = WIDTH OF PUBLIC WAY

If = [495/495 - 0.25] 30/30
If = 0.75

TABLE 508.3 NONSEPARATED OCCUPANCIES (COMMENTARY)
1 - DETERMINE WHAT OCCUPANCY GROUPS ARE PRESENT IN THE BUILDING.
- *M AND B*

2 - COMPARE THE REQUIREMENTS FOR EACH OCCUPANCY AND USE THE MOST RESTRICTIVE (508.3.2 - THE FUNDAMENTAL CONCEPT UNDERLYING THE NONSEPARATED OCCUPANCIES OPTION IS THAT THE ALLOWABLE BUILDING HEIGHT AND ALLOWABLE BUILDING AREA ARE BASED ON THE MOST RESTRICTIVE REQUIREMENTS OF TABLE 504.3, 504.4 AND 506.2 APPLICABLE TO EACH OCCUPANCY GROUP IN THE MIXED USE BUILDING.)
- *MOST RESTRICTIVE IS M*

3 - APPLY THE MOST RESTRICTIVE PROVISION FOUND IN CHAPTER 9 THROUGHOUT THE BUILDING CONTAINING NON-SEPARATED OCCUPANCIES. SPRINKLERS ARE REQUIRED IF ANY OF THE FOLLOWING ARE MET:
- M: FIRE AREA > 12,000 SF OR IF FIRE AREA IS MORE THAN 3 STORIES ABOVE LEVEL OF EXIT DISCHARGE
- ***THE BUILDING IS NOT LARGER THEN 12,000 SF AND IS NOT MORE THAN 3 STORIES ABOVE THE LEVEL OF EXIT DISCHARGE, SO THE EXISTING BUILDING IS CONSIDERED NONSEPARATED USE (MEANING NO FIRE RATED SEPARATIONS ARE REQUIRED BETWEEN THE EXISTING OCCUPANCIES INSIDE THE BUILDING)***.

4 - APPLY ALL OTHER REQUIREMENTS OF THE CODE EXCEPT 403 AND CHAPTER 9 TO EACH OCCUPANCY INDIVIDUALLY BASED ON THE SPECIFIC OCCUPANCY OF EACH SPACE (EG. MEANS OF EGRESS).

TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES
B TO M NO SEPARATION REQUIREMENT

CHAPTER 6 TYPES OF CONSTRUCTION

TABLE 601 FIRE RESISTANCE FOR BUILDING ELEMENTS
TYPE 3B CONSTRUCTION (NON-SPRINKLERED)

STRUCTURAL FRAME (a)	0 HR
BEARING WALLS (a)	
EXTERIOR	2 HR
INTERIOR	0 HR
NON-BEARING WALLS	
EXTERIOR	TABLE 602
INTERIOR	0 HR
FLOOR CONSTRUCTION	0 HR
ROOF CONSTRUCTION	0 HR

TABLE 602 FIRE-RESISTANCE FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (FOR M AND B OCCUPANCY)
X > 30 0 HR

CHAPTER 10 MEANS OF EGRESS

TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT

ACCESSORY STORAGE/MECH	300 SF GROSS
BUSINESS	100 SF GROSS
MERCANTILE	60 SF GROSS
STORAGE, STOCK, SHIP	300 SF GROSS
WINE BAR	15 SF
LOCKER ROOM	50 SF GROSS

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
TYPE M OCCUPANCY = 200 FEET (NON-SPRINKLERED)

TABLE 1006.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY
A OR B WITH LESS THAN 50 OCCUPANTS = 75'

1010.1.9.1 HARDWARE
DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER 11.

1013.1 EXIT SIGNS
EXIT AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.

TABLE 1017.2 EXIT ACCESS TRAVEL DISTANCE
TYPE M, B AND A OCCUPANCY = 200 FEET (NON-SPRINKLERED)

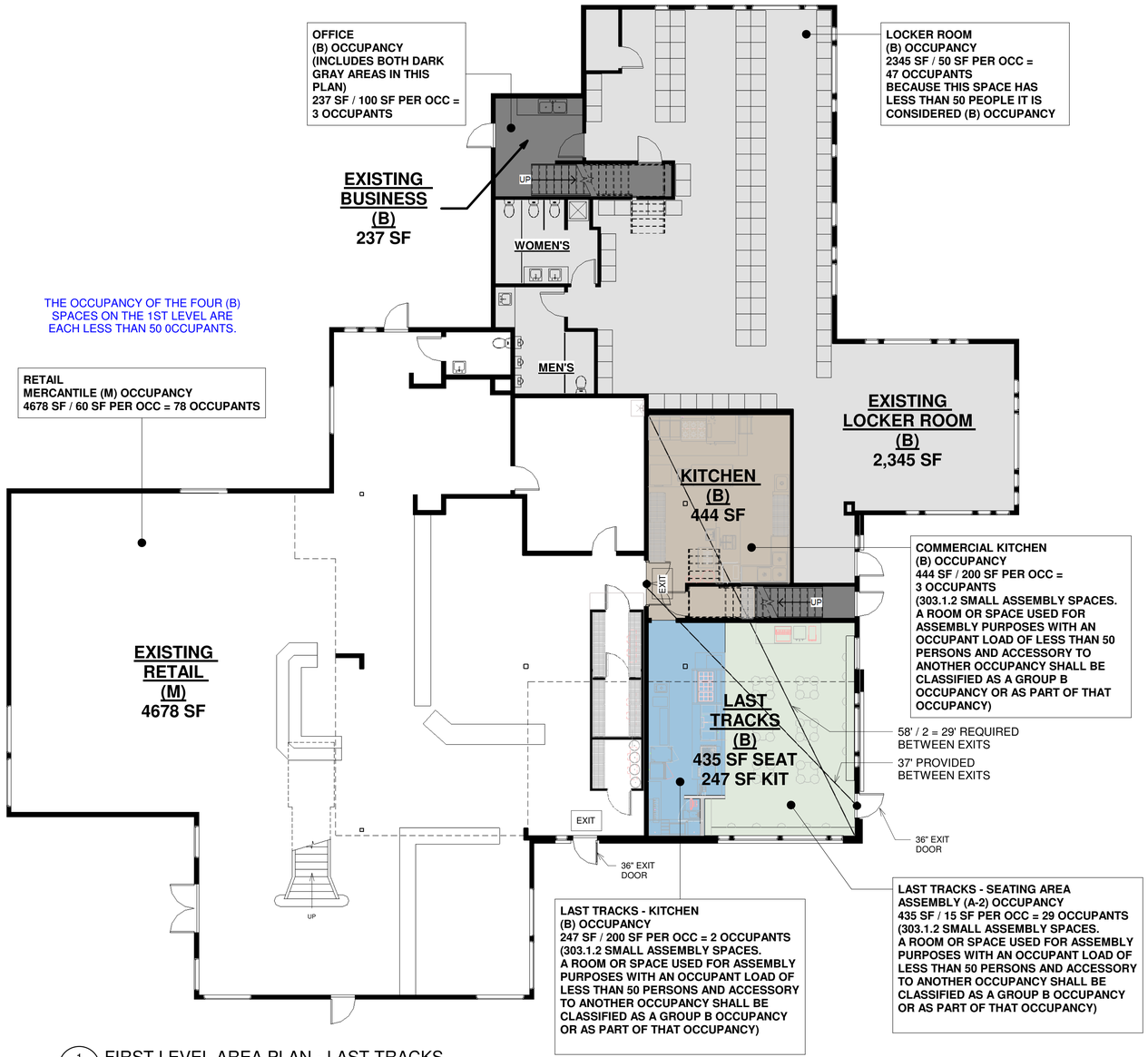
CHAPTER 11 ACCESSIBILITY

1108.2.9.1 DINING SURFACES
WHERE DINING SURFACES FOR THE CONSUMPTION OF FOOD OR DRINK ARE PROVIDED, AT LEASE 5 PERCENT, BUT NOT LESS THAN ONE, OF THE DINING SURFACES FOR THE SEATING AND STANDING SPACES SHALL BE ACCESSIBLE AND BE DISTRIBUTED THROUGHOUT THE FACILITY AND LOCATED ON A LEVEL ACCESSED BY AN ACCESSIBLE ROUTE.

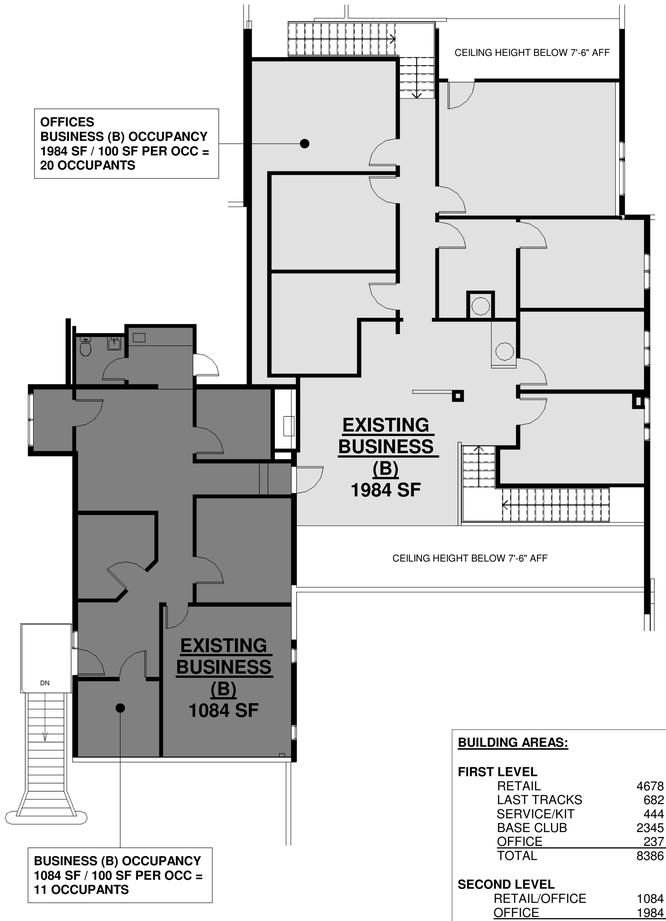
SIGNAGE
VERIFY ALL LOCATIONS WHERE SIGNAGE IS TO BE PROVIDED WITH OWNER IN FIELD. SIGNAGE TO MEET ALL REQUIREMENTS OF 2018 IBC, ANSI A117 AND 2010 ADA.

CODE NOTES:

THE COMMERCIAL KITCHEN APPLIANCES WILL REQUIRE TYPE 1 HOOD, WHICH SHALL BE "ZERO CLEARANCE" UL RATED TO PASS THROUGH THE UPPER FLOOR AND ROOF STRUCTURE OF THE BUILDING AND WILL COMPLY WITH 2018 IMC. THE HOOD WILL INCLUDE A FIRE SUPPRESSION SYSTEM.



1 AG002 FIRST LEVEL AREA PLAN - LAST TRACKS
1/8" = 1'-0"



2 AG002 SECOND LEVEL AREA PLAN - LAST TRACKS
1/8" = 1'-0"

BUILDING AREAS:

FIRST LEVEL	
RETAIL	4678 SF
LAST TRACKS	682 SF
SERVICE/KIT	444 SF
BASE CLUB	2345 SF
OFFICE	237 SF
TOTAL	8386 SF
SECOND LEVEL	
RETAIL/OFFICE	1084 SF
OFFICE	1984 SF
TOTAL	3068 SF
BUILDING TOTAL	**11,454 SF**

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B-1112
MAY 17 2021
LICENSED ARCHITECT

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Job Number:	21027
Date:	5/14/21
Drawn By:	Author
Checked By:	Checker

Project Phase
BID / PERMIT SUBMITTAL

Sheet Title
CODE REVIEW

Sheet Number
AG002

DEMOLITION NOTES

X ← LETTER

A REMOVE EXISTING WALL. PATCH ADJACENT WALLS AND FLOORS FOR NEW FINISHES.

B REMOVE EXISTING DOOR AND HARDWARE

C REMOVE EXISTING WINDOW.

D REMOVE EXISTING PARTIAL HEIGHT WALL, CASEWORK, COUNTERTOP AND/OR EQUIPMENT COMPLETE.

E EXISTING WINDOW TO REMAIN

F EXISTING DOOR TO REMAIN

G EXISTING WALL TO REMAIN

H REMOVE PORTION OF EXISTING WALL FOR NEW OPENING. SALVAGE EXISTING STONE VENEER FOR RE-INSTALLATION ON THIS WALL.

I REMOVE EXISTING CEILING AND LIGHTING

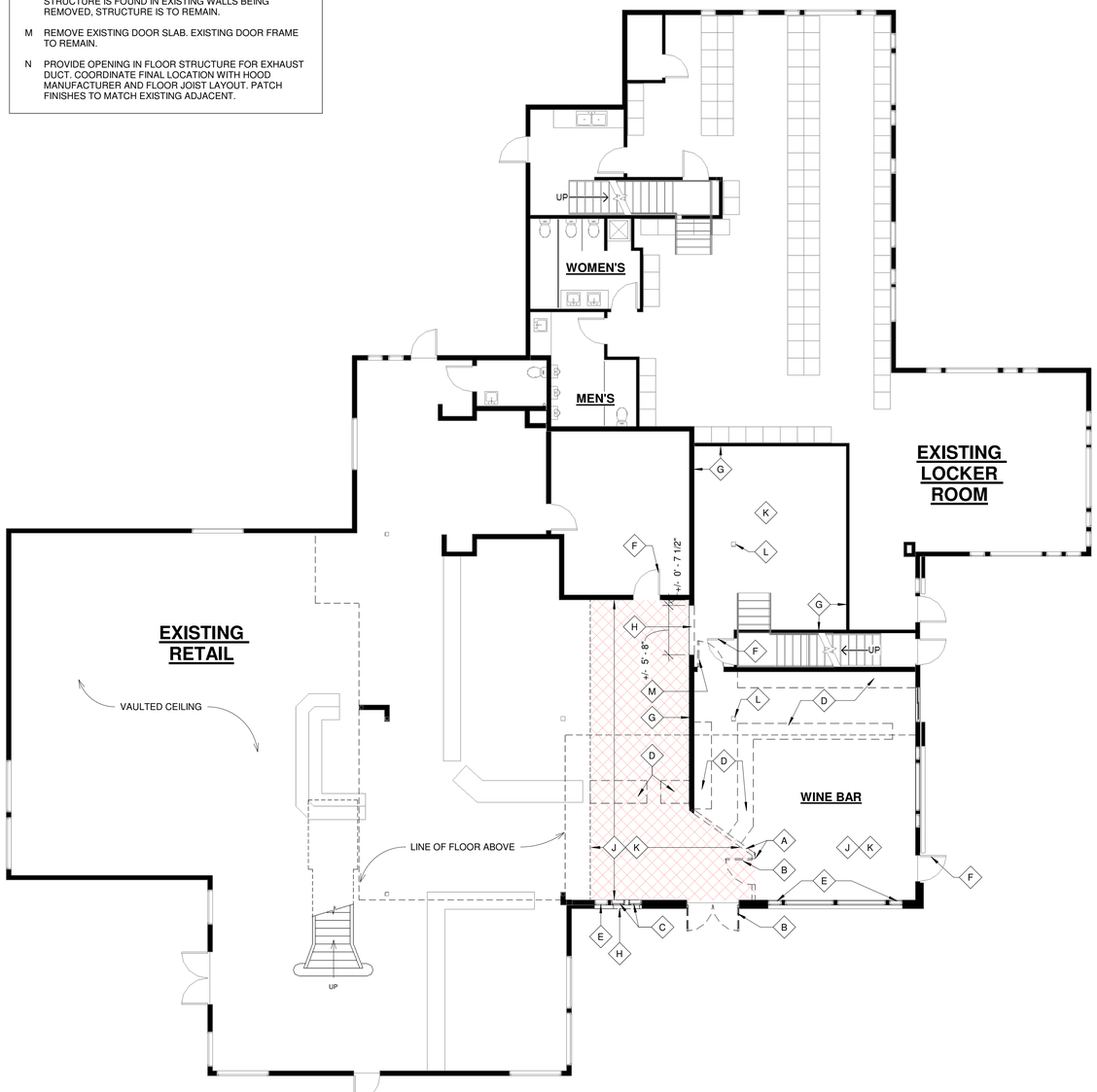
J REMOVE EXISTING FLOOR FINISH AND BASE. PREP FOR NEW FINISHES. (HATCHED REGION)

K ADJUST EXISTING POWER, LIGHTING, HVAC, AND FIRE ALARM SYSTEM TO ACCOMMODATE NEW SPACE LAYOUT.

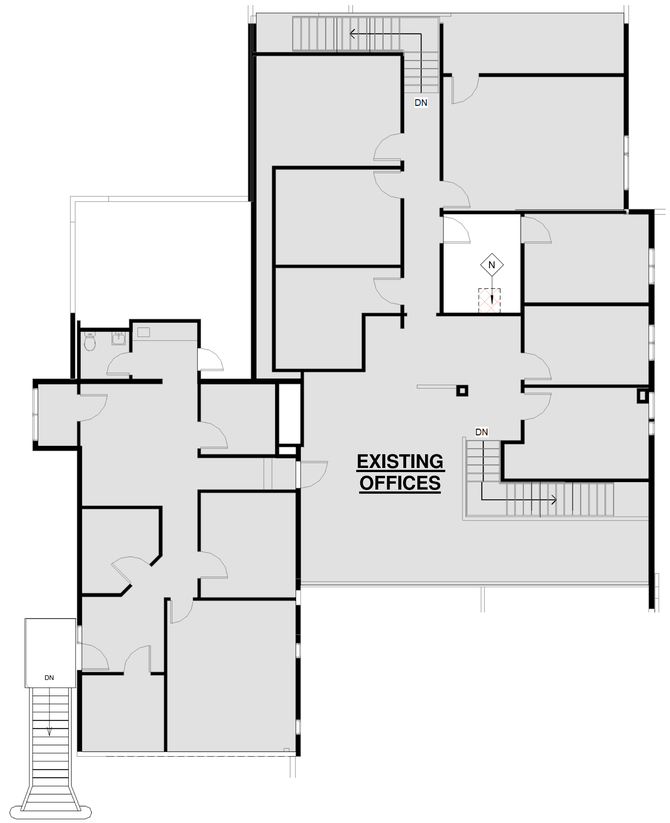
L EXISTING STRUCTURE TO REMAIN. WHEREVER EXISTING STRUCTURE IS FOUND IN EXISTING WALLS BEING REMOVED, STRUCTURE IS TO REMAIN.

M REMOVE EXISTING DOOR SLAB. EXISTING DOOR FRAME TO REMAIN.

N PROVIDE OPENING IN FLOOR STRUCTURE FOR EXHAUST DUCT. COORDINATE FINAL LOCATION WITH HOOD MANUFACTURER AND FLOOR JOIST LAYOUT. PATCH FINISHES TO MATCH EXISTING ADJACENT.



1 AD111 FIRST LEVEL - DEMOLITION
1/8" = 1'-0"



2 AD111 SECOND LEVEL - DEMOLITION
1/8" = 1'-0"

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MAY 17 2021
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Job Number:	21027
Date:	5/14/21
Drawn By:	ESA
Checked By:	ESA

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
FLOOR PLANS - DEMOLITION

Sheet Number
AD111

KEY NOTES

X ← NUMBER

1 EXISTING 2X4 STUD WALL WITH GYP ON BASE CLUB SIDE OF WALL. PROVIDE BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. ADD 3 5/8" METAL STUD WALL WITH BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL TOP AND BASE OF GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. PROVIDE CLEANABLE FINISH ON WALLS PER HEALTH DEPARTMENT REQUIREMENTS.

2 EXISTING 2X4 STUD WALL WITH GYP ON BASE CLUB SIDE OF WALL. PROVIDE BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. PROVIDE CLEANABLE FINISH ON WALLS PER HEALTH DEPARTMENT REQUIREMENTS.

3 PROVIDE NEW 2X4 FUR WALL WITH 5/8" TYPE X GYP BD ON THE OFFICE SIDE. WOOD STUDS TO BE 1" MIN CLEAR OF EXHAUST DUCT IN CHASE. FINISH TO MATCH EXISTING ADJACENT WALLS.

4 PROVIDE NEW 3'-0" X 7'-0" EXTERIOR FIBERGLASS DOOR WITH HALF LITE. MATCH STYLE OF EXISTING EAST DOOR INTO LAST TRACKS SPACE. HARDWARE TO INCLUDE CONTINUOUS HINGE, LEVER SET ON THE OUTSIDE, CLOSER, PANIC HARDWARE ON THE INSIDE, WEATHERSTRIPPING AND DOOR STOPS. COORDINATE KEYING WITH OWNER. PROVIDE EXIT SIGN OVER DOOR.

5 PROVIDE NEW DOUBLE DOORS (5'-4" X 7'-0"). FLUSH WOOD DOORS. HARDWARE TO INCLUDE LEVER SET WITH OFFICE LOCKSET (ALWAYS OPEN FROM KITCHEN SIDE), CONTINUOUS HINGES, CLOSERS, WEATHERSTRIPPING FOR SEALING AROUND DOOR, 24" HIGH KICK PLATES ON BOTH SIDES OF BOTH DOORS AND WALL STOPS. COORDINATE KEYING WITH OWNER. PROVIDE EXIT SIGN OVER DOOR (KITCHEN SIDE).

6 PROVIDE NEW 2X2 ACT CEILING WITH 2X2 LED LIGHT FIXTURES AS REQUIRED TO ACCOMMODATE NEW SPACE LAYOUT. BASIS-OF-DESIGN: ARMSTRONG, KITCHEN ZONE, WHITE, 24" X 24" X 15/16" WHITE TILES WITH PRELUDE SUSPENSION SYSTEM.

7 ADJUST EXISTING POWER, HVAC AND FIRE ALARMS TO ACCOMMODATE NEW SPACE LAYOUT.

8 PROVIDE NEW WALL FINISHES, FLOORING AND FLOOR BASE.

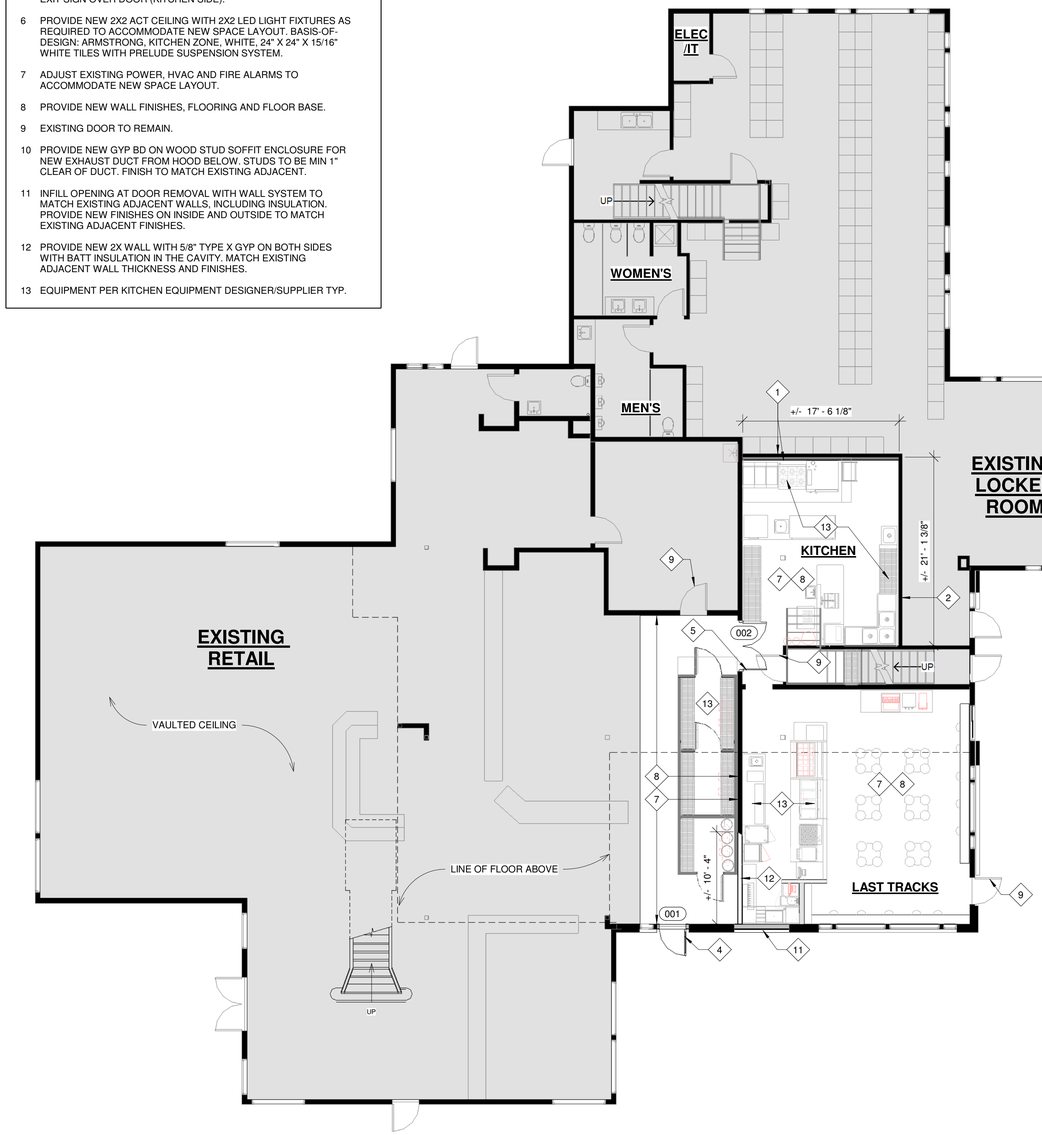
9 EXISTING DOOR TO REMAIN.

10 PROVIDE NEW GYP BD ON WOOD STUD SOFFIT ENCLOSURE FOR NEW EXHAUST DUCT FROM HOOD BELOW. STUDS TO BE MIN 1" CLEAR OF DUCT. FINISH TO MATCH EXISTING ADJACENT.

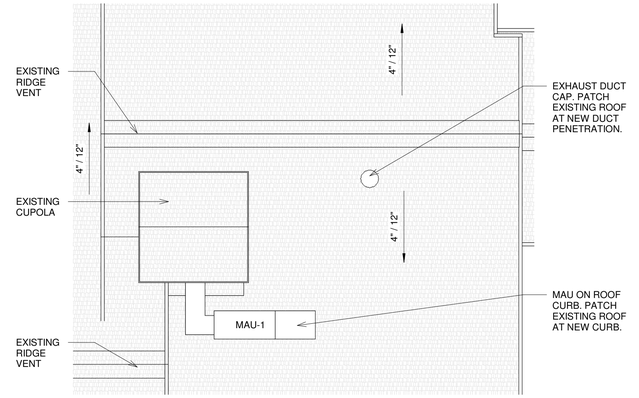
11 INFILL OPENING AT DOOR REMOVAL WITH WALL SYSTEM TO MATCH EXISTING ADJACENT WALLS, INCLUDING INSULATION. PROVIDE NEW FINISHES ON INSIDE AND OUTSIDE TO MATCH EXISTING ADJACENT FINISHES.

12 PROVIDE NEW 2X WALL WITH 5/8" TYPE X GYP ON BOTH SIDES WITH BATT INSULATION IN THE CAVITY. MATCH EXISTING ADJACENT WALL THICKNESS AND FINISHES.

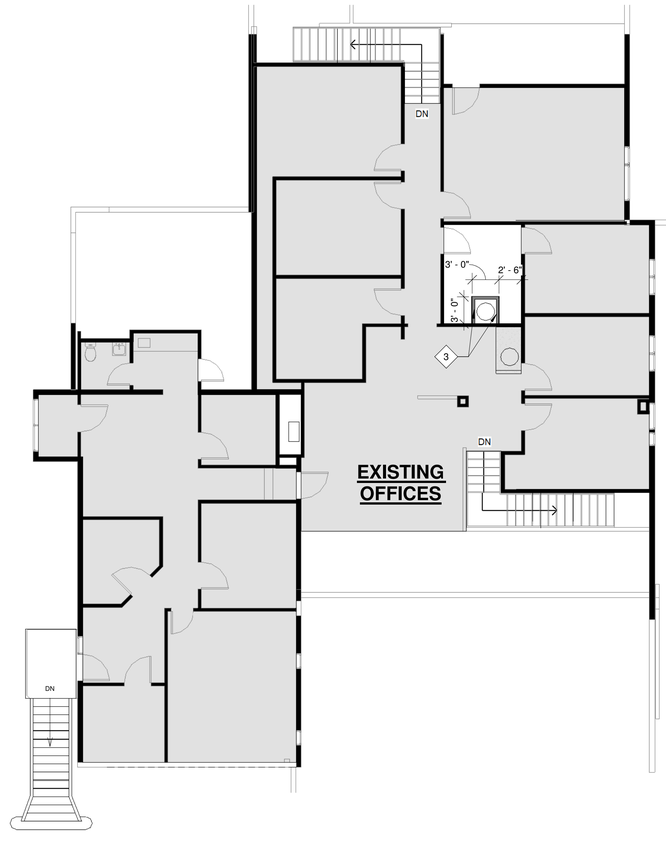
13 EQUIPMENT PER KITCHEN EQUIPMENT DESIGNER/SUPPLIER TYP.



1 / A111 FIRST LEVEL - PROPOSED
1/8" = 1'-0"



3 / A111 ROOF LEVEL - PARTIAL
1/8" = 1'-0"



2 / A111 SECOND LEVEL - PROPOSED
1/8" = 1'-0"

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ERIC P. SMITH B-1112 MAY 17 2021 STATE OF COLORADO LICENSED ARCHITECT

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Checked By:	Checker

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
FLOOR PLANS - PROPOSED

Sheet Number
A111

KEY NOTES

X ← NUMBER

1 EXISTING 2X4 STUD WALL WITH GYP ON BASE CLUB SIDE OF WALL. PROVIDE BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. ADD 3 5/8" METAL STUD WALL WITH BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL TOP AND BASE OF GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. PROVIDE CLEANABLE FINISH ON WALLS PER HEALTH DEPARTMENT REQUIREMENTS.

2 EXISTING 2X4 STUD WALL WITH GYP ON BASE CLUB SIDE OF WALL. PROVIDE BATT INSULATION IN CAVITY AND 5/8" TYPE X GYP BD ON KITCHEN SIDE OF WALL. SEAL GYP TO FLOOR, WALLS AND STRUCTURE ABOVE. PROVIDE CLEANABLE FINISH ON WALLS PER HEALTH DEPARTMENT REQUIREMENTS.

3 PROVIDE NEW 2X4 FUR WALL WITH 5/8" TYPE X GYP BD ON THE OFFICE SIDE. WOOD STUDS TO BE 1" MIN CLEAR OF EXHAUST DUCT IN CHASE. FINISH TO MATCH EXISTING ADJACENT WALLS.

4 PROVIDE NEW 3'-0" X 7'-0" EXTERIOR FIBERGLASS DOOR WITH HALF LITE. MATCH STYLE OF EXISTING EAST DOOR INTO LAST TRACKS SPACE. HARDWARE TO INCLUDE CONTINUOUS HINGE, LEVER SET ON THE OUTSIDE, CLOSER, PANIC HARDWARE ON THE INSIDE, WEATHERSTRIPPING AND DOOR STOPS. COORDINATE KEYING WITH OWNER. PROVIDE EXIT SIGN OVER DOOR.

5 PROVIDE NEW DOUBLE DOORS (5'-4" X 7'-0"). FLUSH WOOD DOORS. HARDWARE TO INCLUDE LEVER SET WITH OFFICE LOCKSET (ALWAYS OPEN FROM KITCHEN SIDE), CONTINUOUS HINGES, CLOSERS, WEATHERSTRIPPING FOR SEALING AROUND DOOR, 24" HIGH KICK PLATES ON BOTH SIDES OF BOTH DOORS AND WALL STOPS. COORDINATE KEYING WITH OWNER. PROVIDE EXIT SIGN OVER DOOR (KITCHEN SIDE).

6 PROVIDE NEW 2X2 ACT CEILING WITH 2X2 LED LIGHT FIXTURES AS REQUIRED TO ACCOMMODATE NEW SPACE LAYOUT. BASIS-OF-DESIGN: ARMSTRONG, KITCHEN ZONE, WHITE, 24" X 24" X 15/16" WHITE TILES WITH PRELUDE SUSPENSION SYSTEM.

7 ADJUST EXISTING POWER, HVAC AND FIRE ALARMS TO ACCOMMODATE NEW SPACE LAYOUT.

8 PROVIDE NEW WALL FINISHES, FLOORING AND FLOOR BASE.

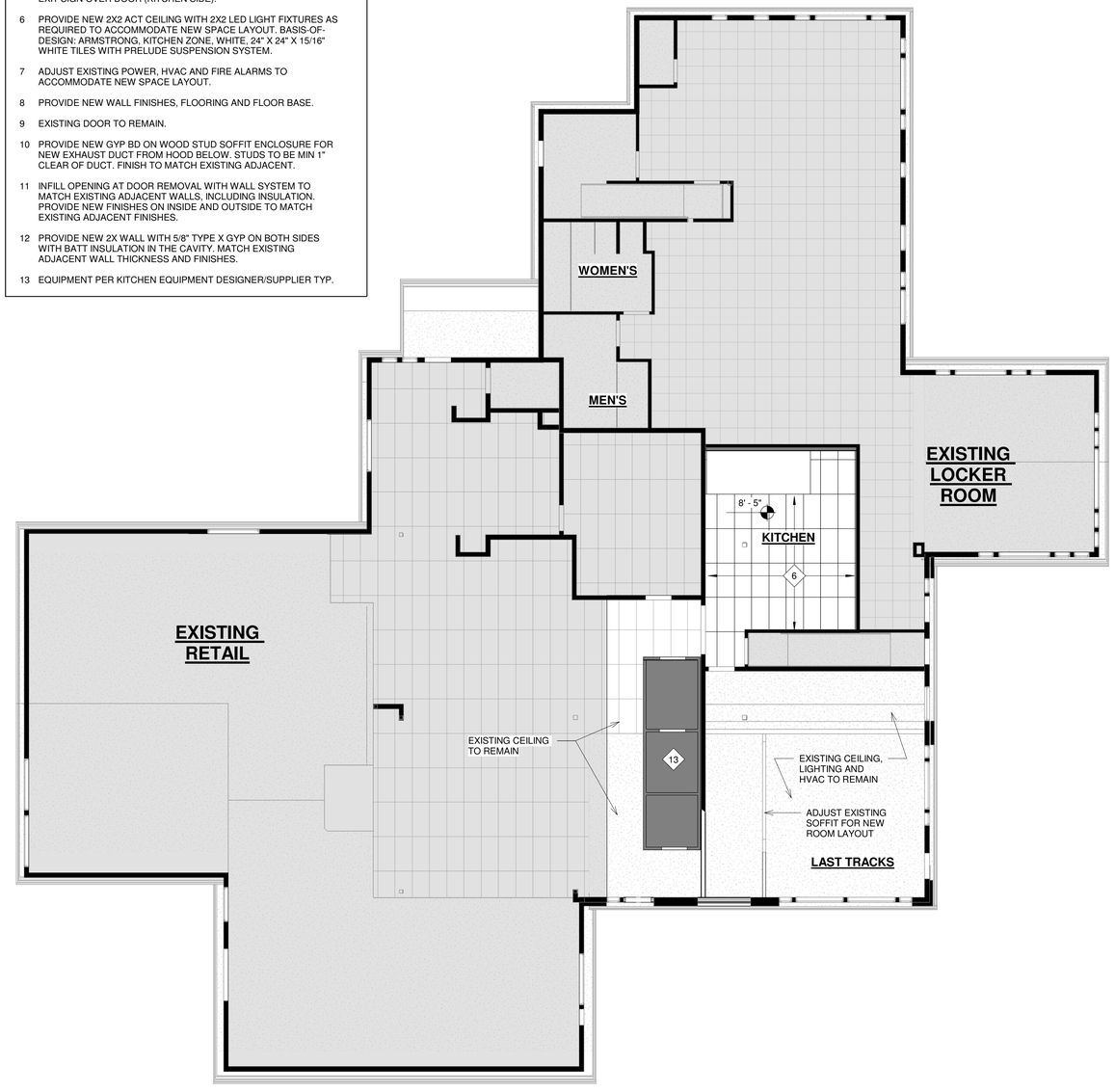
9 EXISTING DOOR TO REMAIN.

10 PROVIDE NEW GYP BD ON WOOD STUD SOFFIT ENCLOSURE FOR NEW EXHAUST DUCT FROM HOOD BELOW. STUDS TO BE MIN 1" CLEAR OF DUCT. FINISH TO MATCH EXISTING ADJACENT.

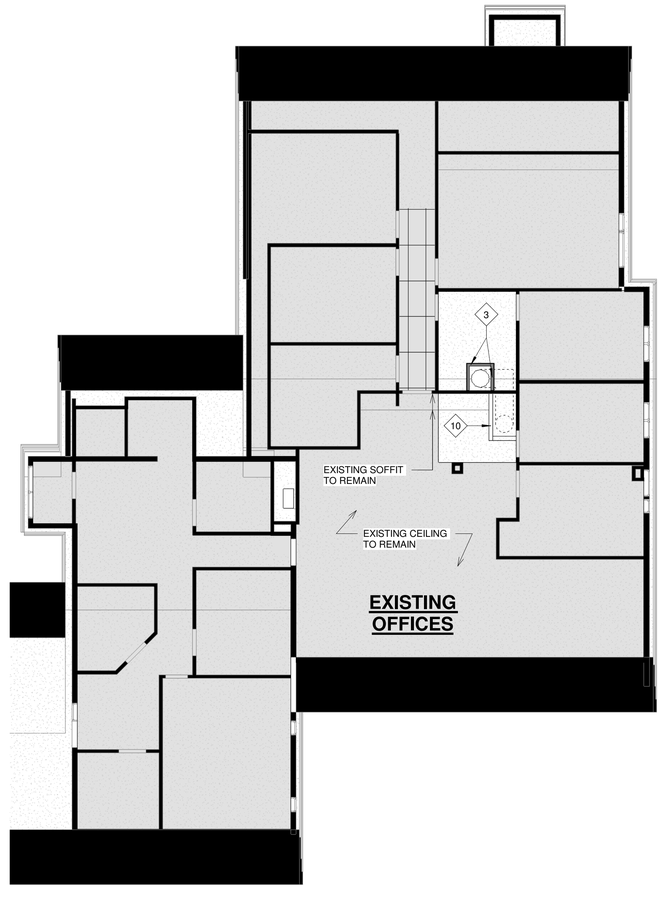
11 INFILL OPENING AT DOOR REMOVAL WITH WALL SYSTEM TO MATCH EXISTING ADJACENT WALLS, INCLUDING INSULATION. PROVIDE NEW FINISHES ON INSIDE AND OUTSIDE TO MATCH EXISTING ADJACENT FINISHES.

12 PROVIDE NEW 2X WALL WITH 5/8" TYPE X GYP ON BOTH SIDES WITH BATT INSULATION IN THE CAVITY. MATCH EXISTING ADJACENT WALL THICKNESS AND FINISHES.

13 EQUIPMENT PER KITCHEN EQUIPMENT DESIGNER/SUPPLIER TYP.



1 A191 FIRST LEVEL R.C.P.
1/8" = 1'-0"



2 A191 SECOND LEVEL R.C.P.
1/8" = 1'-0"

BID/PERMIT SUBMITTAL 5/17/2021

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STATE OF COLORADO
ERIC P. SMITH
B-1112
MAY 17 2021
LICENSED ARCHITECT

NOTICE: DUTY OF COOPERATION

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SSRC - TORIAN BLDG C
1847 SKI TIME SQUARE DR #C2C
STEAMBOAT SPRINGS, COLORADO

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1919 SEVENTH STREET
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Job Number:	21027
Date:	5/14/21
Drawn By:	Author
Checked By:	Checker

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
REFLECTED CEILING PLANS

Sheet Number
A191

GENERAL LEGEND

ABBV.	SYMBOL	DESCRIPTION
G.C.		GENERAL CONTRACTOR
M.C.		MECHANICAL CONTRACTOR
P.C.		PLUMBING CONTRACTOR
E.C.		ELECTRICAL CONTRACTOR
T.C.C.		TEMPERATURE CONTROL CONTRACTOR
K.E.C.		KITCHEN EQUIPMENT CONTRACTOR
A.F.F.		ABOVE FINISHED FLOOR
A.F.G.		ABOVE FINISHED GRADE
B.F.F.		BELOW FINISHED FLOOR
B.F.G.		BELOW FINISHED GRADE
N.I.C.		NOT IN CONTRACT
N.C.		NORMALLY CLOSED
N.O.		NORMALLY OPEN
(N)		NEW
(E)		EXISTING
		EXISTING (DEMOLITION OR REMOVED)
		CONTROL WIRING
AD/AP		ACCESS DOOR/ACCESS PANEL
		POINT OF CONNECTION - NEW TO EXISTING

HVAC LEGEND

ABBV.	SYMBOL	DESCRIPTION
MAU		MAKE-UP AIR UNIT
SF		SUPPLY FAN
EF		EXHAUST FAN
UH		UNIT HEATER
CUH		CABINET UNIT HEATER
BBR		BASEBOARD RADIATION
FCU		FAN COIL UNIT
SR		SUPPLY REGISTER
SG		SUPPLY GRILLE
RG		RETURN GRILLE
ER		EXHAUST REGISTER
EG		EXHAUST GRILLE
TG		TRANSFER GRILLE
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
TA		TRANSFER AIR
MA		MAKE-UP AIR
MVD		MANUAL VOLUME DAMPER
FD		FIRE DAMPER
FSD		COMBINATION MOTORIZED FIRE/SMOKE DAMPER
	$	WALL SWITCH
	T	THERMOSTAT
	VFD	VARIABLE FREQUENCY DRIVE
		SUPPLY DUCT UP & DOWN
		RETURN/EXHAUST DUCT UP & DOWN
		ROUND SUPPLY DUCT UP & DOWN
		DUCT ELBOW WITH TURNING VANES
		SQUARE TO ROUND TRANSITION
	UP / DN	OFFSET DUCT UP / DOWN IN DIRECTION OF ARROW
		CONICAL SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
		CONICAL SPIN-IN FITTING WITHOUT MANUAL VOLUME DAMPER
		45° TAKEOFF
		STANDARD RADIUS ELBOW
	10x8	NEW RECTANGULAR DUCTWORK - WIDTH x DEPTH
	10"ø	NEW ROUND DUCTWORK - DIAMETER
	10x8ø	NEW OVAL DUCTWORK - WIDTH / DEPTH
	(E)10x8	EXISTING DUCTWORK TO REMAIN
	10x8	EXISTING DUCTWORK TO BE REMOVED
CD		CEILING DIFFUSER (FOUR WAY THROW PATTERN)
RG/EG		RETURN OR EXHAUST REGISTER OR GRILLE
RG		RETURN GRILLE WITH SOUND BOOT
		FLEXIBLE DUCTWORK
		AIRFLOW - RETURN/EXHAUST
		AIRFLOW - SUPPLY

MECHANICAL HVAC INSULATION NOTES AND SPECIFICATIONS

1. ALL CONCEALED ROUND AND RECTANGULAR DUCTWORK SHALL BE WRAPPED WITH 1-½" DUCT WRAP WITH VAPOR BARRIER JACKET, MINIMUM R-6.
2. FLEXIBLE DUCTWORK SHALL BE WRAPPED WITH FIBERGLASS INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-6.
3. EXTERIOR RECTANGULAR MAKE-UP AIR SUPPLY DUCTWORK SHALL BE WRAPPED WITH 3" RIGID INSULATION WITH VAPOR BARRIER JACKET, MINIMUM R-13 WITH ALUMINIMUM JACKETING.
4. REFRIGERANT SUCTION PIPING SHALL BE INSULATED WITH MINIMUM 1/2" THICK CLOSED CELL INSULATION, OR AS RECOMMENDED BY EQUIPMENT MANUFACTURER. NOTE THAT BOTH REFRIGERANT LIQUID AND SUCTION LINES SHALL BE INSULATED FOR VRF AND DUCTLESS SPLIT SYSTEMS.

MECHANICAL HVAC NOTES AND SPECIFICATIONS

1. DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHEN DUCT LINER IS REQUIRED, INCREASE SHEET METAL DIMENSIONS ACCORDINGLY.
2. FLEXIBLE DUCTWORK SHALL BE THE SAME SIZE AS THE NECK OF THE AIR DEVICE. FLEXIBLE DUCTWORK SHALL NOT EXCEED 8'-0" IN LENGTH. PROVIDE RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 8'-0".
3. UNLESS INDICATED OTHERWISE, BRANCH TAKEOFFS ARE TO BE THE SAME SIZE AS THE DIFFUSER NECK SIZE INDICATED.
4. PROVIDE DUCT TRANSITIONS FROM EQUIPMENT CONNECTIONS TO DUCT SIZES INDICATED AS REQUIRED.
5. PROVIDE A FLEXIBLE CONNECTION TO THE INTAKE AND DISCHARGE OF ALL MECHANICAL EQUIPMENT HAVING ROTATING PARTS. FLEXIBLE CONNECTION SHALL COMPLY WITH ALL APPLICABLE CODES.
6. ALL DUCTWORK SHALL BE A MINIMUM 26 GAUGE SHEETMETAL, OR AS REQUIRED BY ALL APPLICABLE CODES. ALL DUCTWORK CROSSING RATED CORRIDORS SHALL BE A MINIMUM 24 GAUGE SHEETMETAL. DUCT GAUGES SHALL MEET OR EXCEED SMACNA STANDARDS.
7. ALL SUPPLY DUCTWORK SHALL BE SEALED AIRTIGHT WITH DUCT SEALANT (SMACNA SEAL CLASS "A") ALONG ALL SEAMS AND JOINTS.
8. ALL UNLINED DUCTWORK THAT IS VISIBLE THROUGH THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
9. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM OUTSIDE AIR INTAKES TO EXHAUST TERMINATIONS AND FLUE OUTLETS.
10. MAINTAIN A MINIMUM OF 15'-0" FROM OUTSIDE AIR INTAKES TO PLUMBING VENTS.
11. MAINTAIN A MINIMUM 3'-0" SEPARATION FROM EXHAUST TERMINATIONS TO OPERABLE WINDOWS AND DOORS.
12. ALL MOTORIZED ROOF MOUNTED EQUIPMENT SHALL BE LOCATED AT LEAST 10'-0" FROM THE EDGE OF THE ROOF OR PROVIDED WITH A MEANS FOR EQUIPMENT TIE-OFFS.
13. ALL ELBOWS, BOTH HORIZONTAL AND VERTICAL, SHALL BE LONG RADIUS ELBOWS WHEREVER POSSIBLE, OR SHALL HAVE TURNING VANES WHERE SHOWN.
14. BRANCH FITTINGS SERVING GRILLES AND DIFFUSERS SHALL BE CONICAL (OR 45° TAKEOFFS AS SHOWN ON DRAWINGS). PROVIDE WITH MANUAL VOLUME DAMPERS UNLESS THE AIR TERMINAL IS PROVIDED WITH AN OBD.
15. ALL JOB SITE DUCTWORK PRIOR TO INSTALLATION SHALL BE COVERED AND PROTECTED FROM DIRT, DUST, AND DAMAGE PER SMACNA STANDARDS. OPENINGS IN INSTALLED DUCTWORK DURING CONSTRUCTION SHALL BE SEALED CLOSED WITH PLASTIC TO PREVENT DUST AND DEBRIS INTRUSION INTO DUCTWORK SYSTEMS.
16. COMPLETELY FILL ALL ROOFTOP UNIT ROOF CURBS WITH UNFACED BATT INSULATION. LAYER INSULATION IN A NEAT WORKMANSHIP LIKE MANNER.
17. COORDINATE LOUVER, WALL CAP, AND AIR DEVICE PLACEMENT WITH BRICK OR BLOCK COURSING WHERE APPLICABLE.
18. COORDINATE THE LOCATION AND ELEVATION OF ALL EXPOSED DUCTWORK WITH THE ARCHITECT AT THE JOB SITE PRIOR TO INSTALLATION.
19. KITCHEN GREASE EXHAUST DUCTWORK SHALL BE PRE-MANUFACTURERED BY CAPTIVEAIRE FOR SPECIFIED USE WITH TYPE I KITCHEN HOODS. PROVIDE DOUBLE WALL FACTORY BUILT GREASE DUCTWORK CONFORMING TO NFPA-96 AND MAINTAIN ALL REQUIRED CLERANCES TO COMBUSTIBLES. MC TO VERIFY ALL DUCTWORK SIZES AND FITTINGS WITH VENDOR PRIOR TO ORDER.

SHEET INDEX

MECHANICAL DEMOLITION GENERAL NOTES AND SPECIFICATIONS

1. THE MECHANICAL CONTRACTOR SHALL INSPECT SITE TO BECOME FAMILIAR WITH THE SCOPE OF THE WORK. THESE DOCUMENTS DO NOT REFLECT AS-BUILT CONDITIONS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO BID PRICING. NO EXTRAS WILL BE ALLOWED DUE TO LACK OF KNOWLEDGE OF THE EXISTING CONDITIONS.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ABOVE CEILING EQUIPMENT, DUCTWORK, AND CEILING MOUNTED AIR DEVICES WITH EXISTING ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL CONDITIONS. APPROXIMATE LOCATIONS OF NEW WORK ARE SHOWN AND SHOULD BE FOLLOWED AS CLOSELY AS EXISTING CONDITIONS WILL ALLOW.
3. COORDINATE DEMOLITION REQUIREMENTS WITH THE GENERAL CONTRACTOR.
4. COORDINATE EXTENT OF DEMOLITION WITH THE NEW CONSTRUCTION AS SHOWN IN THESE DOCUMENTS.
5. EXISTING MECHANICAL WORK IS SHOWN LIGHT.
6. ALL MECHANICAL ITEMS INDICATED TO BE DEMOLISHED SHALL BE INSPECTED FOR SALVAGE BY THE OWNER. ALL NON-SALVAGEABLE ITEMS SHALL THEN BE IMMEDIATELY REMOVED FROM THE SITE BY THE MECHANICAL CONTRACTOR.
7. ALL UNUSED TEMPERATURE CONTROL WIRING, WIRE MOLD, PNEUMATIC TUBING AND CONTROL COMPONENTS SHALL BE REMOVED.
8. ALL UNUSED HANGERS AND SUPPORTS SHALL BE REMOVED.
9. THE REMOVAL OR INSTALLATION OF CONTROLS, PIPES, DUCTS, AND EQUIPMENT MAY REQUIRE THE REMOVAL OF EXISTING WALLS AND CEILINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND PAINTING THESE WALLS AND/OR CEILINGS SO THEY MATCH THE EXISTING WHERE NOT REPLACED UNDER THE ARCHITECTURAL DOCUMENTS. THE GENERAL CONTRACTOR SHALL REVIEW THE MECHANICAL DRAWINGS TO IDENTIFY THESE LOCATIONS PRIOR TO BID PRICING.
10. THE GENERAL CONTRACTOR SHALL PATCH AND PAINT WALLS TO MATCH EXISTING AT THE DEMOLISHED CONTROLS.
11. THE GENERAL CONTRACTOR SHALL PATCH AND SEAL UNUSED ROOF PENETRATIONS AT DEMOLISHED MECHANICAL TO MATCH EXISTING CONDITIONS.
12. THE GENERAL CONTRACTOR SHALL PATCH THE CEILING, ROOF, AND WALLS TO MATCH EXISTING AT DEMOLISHED HANGERS AND SUPPORTS.
13. THE GENERAL CONTRACTOR SHALL MAKE REPAIRS TO ALL EXISTING BUILDING COMPONENTS THAT HAVE BEEN AFFECTED BY THE DEMOLITION OF MECHANICAL SYSTEMS.
14. PORTIONS OF THIS BUILDING WILL BE OCCUPIED DURING THIS CONSTRUCTION PROJECT. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SCHEDULING OF THEIR WORK WITH THE GENERAL CONTRACTOR. CLEAN UP AT THE END OF EACH DAY.

MECHANICAL GENERAL NOTES AND SPECIFICATIONS

1. THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE UTILIZED AS SHOP DRAWINGS NOR NECESSARILY SCALED FOR EXACT MEASUREMENTS. ANY DISCREPANCIES BETWEEN THESE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO INSTALLATION.
2. MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY ALL REQUIREMENTS PRIOR TO SUBMITTING BID OR COMMENCING WORK.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL COORDINATION OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE USE OR INSTALLATION OF EQUIPMENT OTHER THAN THAT OF THE BASIS OF DESIGN MANUFACTURERS LISTED ON THE DRAWINGS.
4. THE MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES PRIOR TO AND DURING CONSTRUCTION. THE MECHANICAL SYSTEMS SHOWN SHALL BE RUN AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
5. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING AIR DEVICES AND ACCESS PANELS. OBTAIN CLARIFICATION FROM THE ARCHITECT, IF EXACT LOCATIONS ARE NOT SHOWN.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR ROOFING DETAILS SPECIFIC TO THIS PROJECT.
7. THE MECHANICAL CONTRACTOR SHALL COORDINATE THERMOSTAT, SENSOR, AND SWITCH LOCATIONS WITH OWNER PRIOR TO INSTALLATION. ALL THERMOSTATS, SENSORS, AND SWITCHES SHALL BE LOCATED 48" AFF UNLESS INDICATED OTHERWISE. WHERE EXISTING CONDITIONS REQUIRE EXPOSED CONTROL WIRING, SUCH WIRING SHALL BE CONCEALED WITH WIRE MOLD. WIRE MOLD COLOR SHALL BE SELECTED BY THE ARCHITECT.
8. PROVIDE EQUIPMENT LABELS FOR ALL MAJOR EQUIPMENT, INCLUDING BUT NOT LIMITED TO AIR HANDLING SYSTEMS, FANS, CONTROLS, AND DAMPERS. LABELS SHALL BE AFFIXED OR ADHERED DIRECTLY TO EQUIPMENT. EQUIPMENT TO BE LABELED WITH ENGRAVED PLASTIC LAMINATE SIGNS.
9. BALANCE AIR SYSTEMS TO THE QUANTITIES SHOWN AND SUBMIT BALANCE REPORT TO THE ARCHITECT/ENGINEER FOR REVIEW. FAN SYSTEMS TO BE BALANCED WITHIN PLUS 10 PERCENT OR MINUS 5 PERCENT OF LISTED VALUES. AIR INLETS AND OUTLETS TO BE BALANCED WITH PLUS 10 PERCENT TO MINUS 5 PERCENT OF LISTED VALUES.
10. SUBMIT TO THE ARCHITECT/ENGINEER ELECTRONIC PDF FILES OF MECHANICAL SUBMITTALS FOR REVIEW OF ALL MAJOR EQUIPMENT AS LISTED ON DRAWING EQUIPMENT SCHEDULES, AS WELL AS DUCTWORK ACCESSORIES AND CONTROLS. ENGINEER ASSUMES NO RESPONSIBILITY FOR EQUIPMENT OR INSTALLATION COORDINATION THAT HAS NOT BEEN SUBMITTED FOR REVIEW.
11. CONTRACTOR SHALL WARRANTY WORK, EQUIPMENT, MATERIALS, AND PROPER OPERATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF BUILDING BY OWNER. THIS GUARANTEE SHALL NOT INCLUDE NORMAL MAINTENANCE REQUIRED BY THE OWNER AS DESCRIBED IN O&M MANUALS.
12. PROVIDE TWO SETS OF OPERATION AND MAINTENANCE (O&M) MANUALS FOR OWNER AT COMPLETION OF PROJECT TO THE ARCHITECT/ENGINEER FOR REVIEW. DOCUMENTATION SHALL CONSIST OF MANUFACTURER'S INFORMATION, SPECIFICATIONS AND RECOMMENDATIONS, PROGRAMMING PROCEDURES AND DATA POINTS, NARRATIVES, AND OTHER MEANS OF ILLUSTRATING TO THE OWNER HOW THE BUILDING, EQUIPMENT, AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED. REQUIRED REGULAR MAINTENANCE ACTIONS FOR EQUIPMENT AND SYSTEMS SHALL BE CLEARLY STATED ON A READILY VISIBLE LABEL. THE LABEL SHALL INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE MANUAL FOR THAT PERTICULAR MODEL AND TYPE OF PRODUCT.
13. CONTRACTOR SHALL MAINTAIN A COMPLETE AND ACCURATE SET OF RECORD DRAWINGS SHOWING ACTUAL INSTALLED LOCATIONS OF WORK. SUBMIT THESE DRAWINGS AS PART OF THE OPERATION AND MAINTENANCE MANUALS AT COMPLETION OF PROJECT.
14. ACCESS DOORS SHALL BE INSTALLED IN ORDER TO PROVIDE ACCESS TO MECHANICAL SYSTEMS REQUIRING ACCESS FOR SERVICING OR ADJUSTMENT LOCATED ABOVE INACCESSIBLE CEILINGS, WHETHER OR NOT SHOWN ON THE DRAWINGS. ACCESS DOORS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR. ACCESS DOOR LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. PROVIDE 12"x12" ACCESS DOORS FOR HAND ACCESS (VALVES AND DAMPERS) AND 24"x24" ACCESS FOR HEAD AND SHOULDER ACCESS FOR OTHER EQUIPMENT.

BID/PERMIT SUBMITTAL 5/17/2021

REVISIONS

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ERIC SMITH ASSOCIATES, P.C.
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Drawn By: EAB
Checked By: EAB

Project Phase
BID / PERMIT SUBMITTAL

Sheet Title
HVAC COVER SHEET

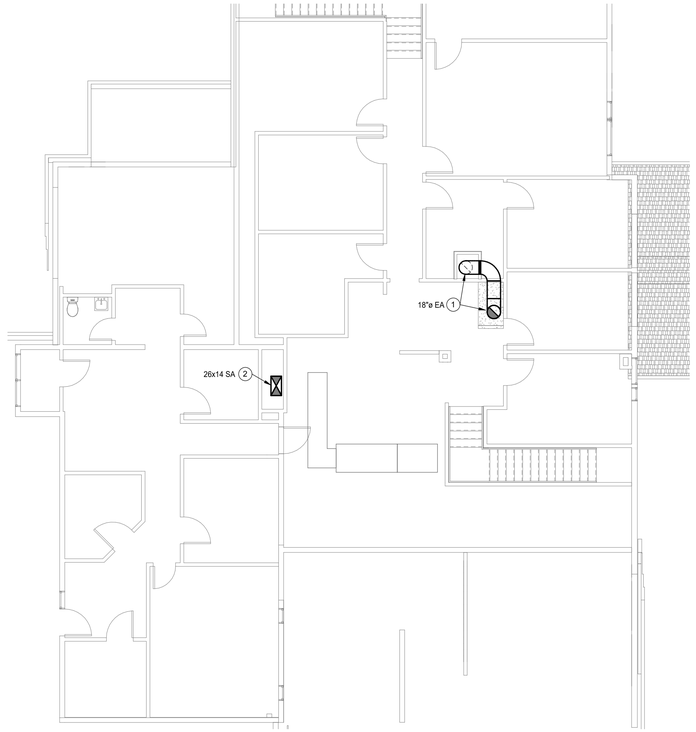
Sheet Number
M000

ROOF HVAC KEYNOTES:

1. MAKEUP AIR UNIT MOUNTED ON SLOPED ROOF CURB TO MATCH ROOF SLOPE. CURB TO BE 18" ABOVE ROOF AT LOWEST POINT. MC TO VERIFY EXISTING ROOF SLOPE IN FIELD AND COORDINATE WITH CAPTIVEAIRE. MC TO ROUTE GAS TO FURNACE AND DOMESTIC WATER AND DRAIN LINES TO UNIT EVAPORATIVE COOLING SECTION PER MANUFACTURER'S REQUIREMENTS.
2. KITCHEN EXHAUST FAN MOUNTED ON SLOPED ROOF CURB TO MATCH ROOF SLOPE. CURB TO BE 26" ABOVE ROOF AT LOWEST POINT. MC TO VERIFY SLOPE IN FIELD AND COORDINATE WITH CAPTIVEAIRE.
3. DUCTWORK TRANSITION ROUTED FROM MAU-1 THROUGH EXISTING CUPOLA AND DOWN TO LEVEL 2 BELOW. PROVIDE MINIMUM R-13 RIGID INSULATION (3" THICK) AND ALUMINUM JACKETING ON EXTERIOR DUCTWORK.
4. DUCTWORK TRANSITION FROM KEF-1 CONNECTION TO DUCTWORK SIZE INDICATED DOWN THROUGH ROOF. MC TO COORDINATE WITH ROOF FRAMING IN FIELD.

ROOF LEVEL HVAC PLAN

SCALE: 1/8" = 1'-0"

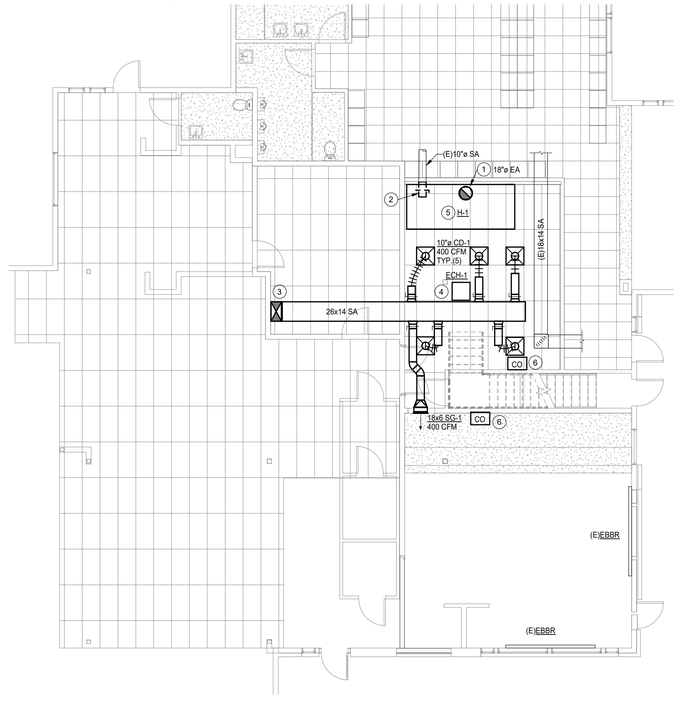


SECOND LEVEL HVAC KEYNOTES:

1. KITCHEN EXHAUST DUCTWORK UP FROM FIRST LEVEL, OFFSET AND UP THROUGH ROOF. MC TO COORDINATE ALL DUCTWORK FITTINGS, AND LENGTHS WITH CAPTIVEAIRE PRIOR TO ORDER. SLOPE ALL GREASE EXHAUST BACK TO HOOD AT A MINIMUM OF 1/4" PER FOOT.
2. DUCTWORK UP AND DOWN IN EXISTING CHASE. MC TO COORDINATE ROUTING IN FIELD.

PARTIAL SECOND LEVEL HVAC PLAN

SCALE: 1/8" = 1'-0"



FIRST LEVEL HVAC KEYNOTES:

1. GREASE EXHAUST DUCTWORK UP FROM 18"ø OPENING AT HOOD TO 18"ø EXHAUST AIR THROUGH NEW OPENING IN SECOND LEVEL FLOOR. MC AND OWNER TO COORDINATE FLOOR OPENING AND REQUIREMENTS IN FIELD. GREASE EXHAUST DUCTWORK TO BE CAPTIVEAIRE DOUBLE WALL DW-2R MANUFACTURER AND INSTALLED PER NFPA-96 , UL-1978 AND UL-2221. MAINTAIN 1" CLEARANCE TO COMBUSTIBLES FROM DUCTWORK AS REQUIRED BY MANUFACTURER.
2. REMOVE EXISTING SUPPLY AIR DUCTWORK AND VOLUME DAMPER. CAP DUCTWORK AIR TIGHT AT WALL.
3. DUCTWORK UP THROUGH FLOOR TO SECOND LEVEL ABOVE. MC TO COORDINATE FLOOR FRAMING WITH OWNER AND GC.
4. ELECTRIC CEILING HEATER FOR UNOCCUPIED HEATING TO BE MOUNTED FROM STRUCTURE AND INSTALLED RECESSED IN CEILING.
5. KITCHEN HOOD MOUNTED AT 80" AFF. REFER TO CAPTIVE AIR DRAWINGS FOR MOUNTING, CONTROL WIRING, AND POWER REQUIREMENTS.
6. CARBON MONOXIDE DETECTORS PROVIDED FOR SPACES SERVED BY DIRECT FIRED FURNACE.

PARTIAL FIRST LEVEL HVAC PLAN

SCALE: 1/8" = 1'-0"

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1847 SKI TIME SQUARE DR #C2C
STEAMBOAT SPRINGS, COLORADO

ERIC SMITH ASSOCIATES, P.C.
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(303) 442-5456, (303) 442-4745 FAX

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Drawn By:	EAB
Checked By:	EAB

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
HVAC PLANS

Sheet Number
M111

5/17/2021 8:18:10 AM FILE: E:\20013.00 TERRY SPORTS BUILDING_V19.rvt

GRILLES, REGISTERS & DIFFUSERS SCHEDULE

PLAN CODE	MANUFACTURER & MODEL NO.	TYPE & SERVICE	NECK SIZE	FACE SIZE	VOLUME DAMPER (OBD)	MATERIAL	MOUNTING TYPE	FINISH	REMARKS
CD-1	PRICE PDDR	SUPPLY	AS NOTED	24"x24"	NO	STEEL	LAY-IN	WHITE	NOTE: 1
SG-1	PRICE 520	SUPPLY	AS NOTED	NECK+1.75"	NO	STEEL	SURFACE	WHITE	NOTE: 2

NOTES:
1. MANUFACTURER TO PROVIDE SUPPLY PLENUM WITH INLET NECK SIZE PER PLANS.
2. PROVIDE DOUBLE DEFLECTION SUPPLY BLADES.

ELECTRIC CEILING HEATER SCHEDULE

PLAN	MANUF.		CAP.	ELEMENT						ELECTRICAL		WEIGHT		
CODE	& MODEL NO.	LOCATION	(MBH)	KW	VOLTS	ø	CFM	EAT	FLA	VOLTS	ø	(LBS)	CONTROL	REMARKS
ECH-1	QMARK FFCH 548	KITCHEN	6.8	2.0	208	1	300	55.0	9.6	208	1	25	NOTE: 1	NOTE: 2,3

NOTES:
1. MANUFACTURER TO PROVIDE UNIT MOUNTED THERMOSTAT.
2. FLA (FULL LOAD AMPS) INCLUDES HEATING ELEMENT AND MOTOR CURRENT REQUIREMENTS.
3. PROVIDE RECESSED LAY-IN CEILING MOUNTING FRAME.

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STEAMBOAT SPRINGS, COLORADO

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

Job Number:	20013.00
Date:	5/17/21
Drawn By:	EAB
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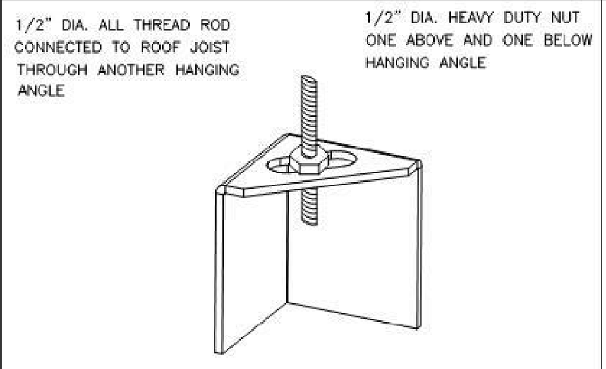
Project Phase
BID / PERMIT SUBMITTAL

Sheet Title
HVAC SCHEDULES

Sheet Number
M300

BID/PERMIT SUBMITTAL 5/17/2021

5/17/2021 8:18:10 AM FILE: E:\20013.00 TERRY SPORTS BUILDING_V19.rvt



*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

HANGING ANGLE DETAILS

HOOD STYLE / MODEL	450 DEGREES cfm/ft.	600 DEGREES cfm/ft.	700 DEGREES cfm/ft.
CANOPY ND2	150	200	250
WITH END PANELS (15% reduction)	127.5	170	212.5
SLOPED SND-2	228	294	–
ISLAND ND-2WI	269	300	350
NDI	346	422	475

ETL HOOD LISTING DETAIL

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)

SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

$$\text{TOTAL DUCT AREA} = 144 \times \frac{\text{CFM}}{\text{FPM}(*)}$$

$$\text{DUCT LENGTH} = \frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$$

*CAPTIVE-AIRE VENTILATOR DUCT SIZES ARE CALCULATED USING AN EXHAUST VELOCITY OF 1500-1800 FPM AND A SUPPLY VELOCITY OF 1000 FPM.

CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

ETL LISTED #3054804-001 & #3054804-002 — UL STANDARD 710 — Intertek — BUILT IN ACCORDANCE WITH NFPA No. 96

Listed under ETL File number 3054804-001/002

BUILDING CODES

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:

MATERIAL	CLEARANCE REDUCTION SYSTEM
NON-COMBUSTIBLE	NONE REQUIRED
LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF
COMBUSTIBLE	1" INSULATED STANDOFF

CLEARANCE TO COMBUSTIBLES

INSTALLATION

1. ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
2. ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
3. HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
4. ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTORS'S PLANS.
5. COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
6. EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
7. ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
8. LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
9. SEISMIC RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
10. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.

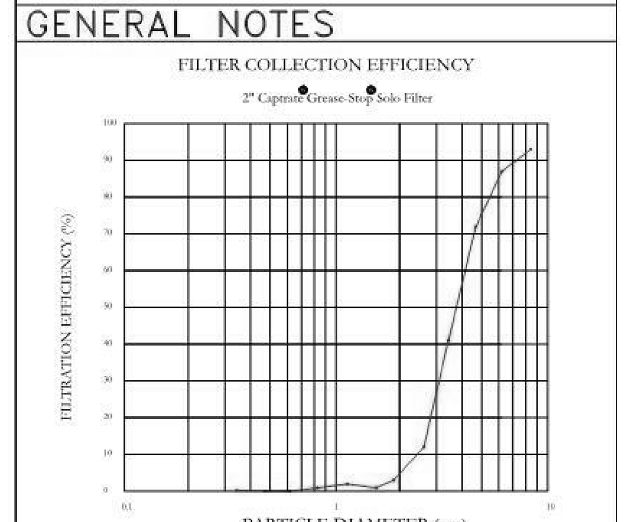
BALANCE

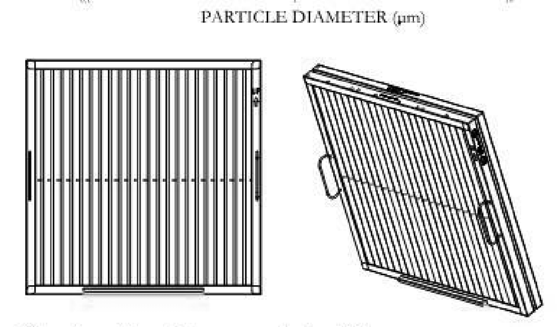
11. KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
12. KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

ADDITIONAL

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

GENERAL NOTES





CaptiveAire Captrate Solo Filter
ETL Listed Grease Extracting Filters
Made From 430 Stainless Steel

FILTER DETAIL

HOOD INFORMATION – JOB#4891037

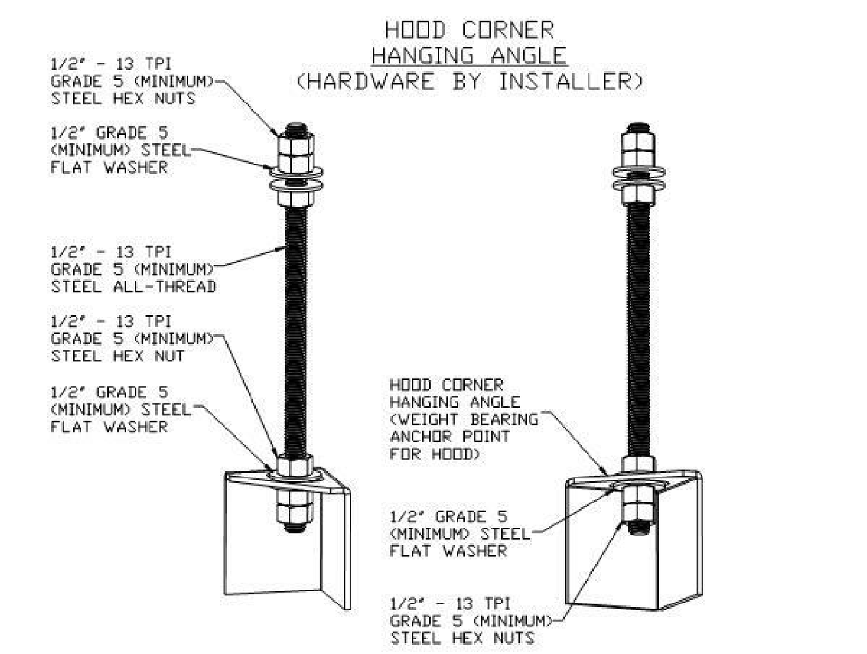
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	KH-1	6024 ND-2	CAPTIVEAIRE	11' 0"	600 DEG	I	HEAVY	225	2475			4"	16"	2475	1773	-0.872"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH-1	CAPTRATE SOLO FILTER	8	20"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	RIGHT	12"x60"x24"	TANK FIRE SUPPRESSION	4.0/4.0	DCV-1111	1 LIGHT 1 FAN	YES	999 LBS

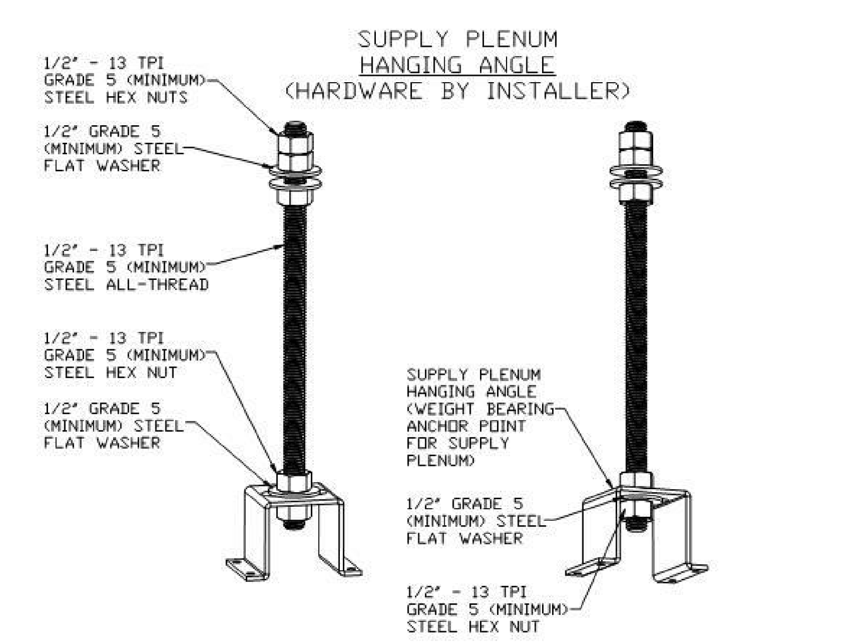
HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		BACKSPLASH 122.00" HIGH X 163.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 60" LONG INSULATED.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 3IN DBL.
		LEFT WALL AS END PANEL.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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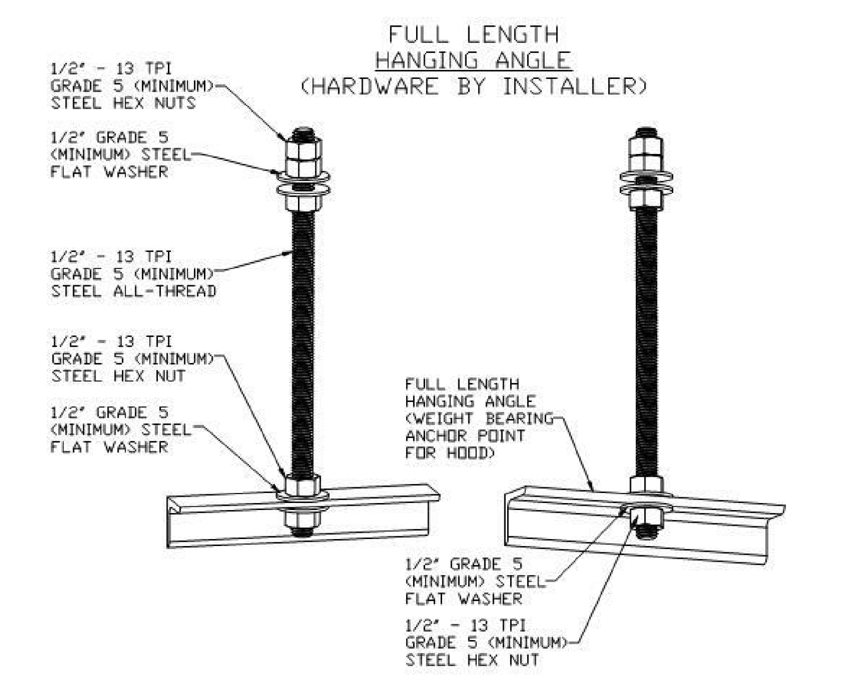

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FOR QUESTIONS, CALL THE
COLORADO REGIONAL SALES OFFICE
7300 S. Alton Way, #5B, Centennial, CO 80112
PHONE: (720) 570-0981
FAX: (919) 227-5999

*** NOTE ***
ALL WALLS AND STRUCTURES THAT COME WITHIN 18" OF HOOD MUST BE METAL STUDS AND SHEETROCK. WOOD STUDS OR ANY OTHER COMBUSTIBLE MATERIAL WITHIN 18" OF HOOD NOT ALLOWED

*** NOTE ***
HOOD MANUFACTURER RECOMMENDS NO RETURNS OR 4-WAY DIFFUSERS WITHIN 10 FEET OF HOOD IN ALL DIRECTIONS.

*** NOTE ***
MAKE-UP AIR SHALL BE DELIVERED INTO SPACE IN MANNER THAT WILL NOT DISRUPT HOODS ABILITY TO CAPTURE AND CONTAIN.

System Design Verification (SDV)

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

REVISIONS DESCRIPTION	DATE
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CAPTIVEAIRE
Denver Office
7300 S Alton Way Building 5, Suite B, Centennial, CO, 80112 PHONE: (720) 570-0981 FAX: (919) 227-5999 EMAIL: reg42@captiveaire.com
www.captiveaire.com

Last Tracks BBQ -Steamboat Springs, CO R5
STEAMBOAT SPRINGS, CO, 80477

DATE: 5/14/2021
DWG.#: 4891037
DRAWN BY: CJP - 42
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

REVISIONS

No.	Description	Date

SSRC - TORIAN BLDG C
1847 SKI TIME SQUARE DR #C2C
STEAMBOAT SPRINGS, COLORADO

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
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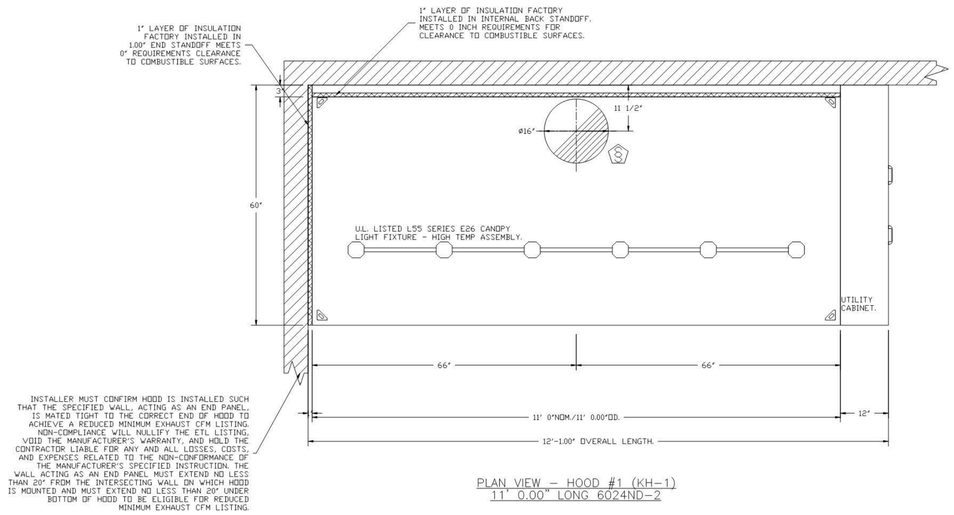
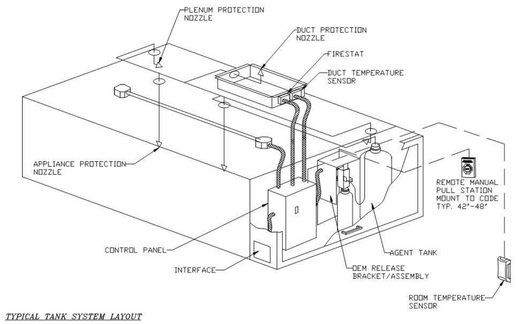


PLAN VIEW - HOOD #1 (KH-1)
11' 0.00" LONG 6024ND-2

SECTION VIEW - MODEL 6024ND-2
HOOD - #1 (KH-1)



TYPICAL TANK SYSTEM LAYOUT

SPECIFICATIONS:

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

THE SYSTEM CONTROLS SHALL PROVIDE ALL NECESSARY MONITORING, TIMING AND SUPERVISION FUNCTIONS REQUIRED FOR THE RELIABLE OPERATION OF THE WET CHEMICAL FIRE SUPPRESSION SYSTEM. ALL DEVICES THAT ARE CRITICAL TO PROPER OPERATION SHALL BE SUPERVISED. THE SYSTEM SHALL INCLUDE A BATTERY BACK UP SYSTEM. IN THE EVENT OF A LOSS OF POWER TO THE BUILDING, THE BACKUP SYSTEM SHALL POWER ALL SYSTEMS NECESSARY FOR PROPER OPERATION.

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. THE DETECTION PORTION OF THE FIRE SUPPRESSION SYSTEM ALLOWS FOR AUTOMATIC DETECTION BY MEANS OF AN ELECTRIC THERMAL DETECTOR(S) LOCATED IN THE HOOD DUCT CONNECTION(S).

FIRE SYSTEM INFORMATION - JOB#4891037

FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1	FS-1	CAS ELECTRIC WET CHEMICAL	4.0/4.0	9	FIRE CABINET RIGHT	RIGHT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

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	DESCRIPTION	DATE
1		
2		
3		
4		

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COLORADO LICENSED PROFESSIONAL ENGINEER
38020
05-17-2021
PROFESSIONAL ENGINEER

NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made from the plans without consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arriving out of such changes.

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EXHAUST FAN INFORMATION – JOB#4891037

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU180HFA	CAPTIVEAIRE	2475	1.500	1353	ODP,PREMIUM	2.000	1.2990	3	208	8.3	572 FPM	185	20

MUA FAN INFORMATION – JOB#4891037

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	EVAP FLOW RATE (Gal/Hr)	EVAP COOLER ENTERING DB TEMP	EVAP COOLER ENTERING WB TEMP	EVAP COOLER LEAVING DB TEMP	EVAP COOLER LEAVING WB TEMP	WEIGHT (LBS)	SONES
2	MAU-1	1	A2-D.250-20D	20MF-2-MOD	A2-D.250	2000	2475	1.250	1548	ODP,PREMIUM	2.000	1.4680	3	208	6.1	7.7A	15A	3.56	90.0°F	55.0°F	68.0°F	55.0°F	931	15.3

*Evap Flow Rate is variable based on water pressure.

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MAU-1	210349	193521	95°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX.
		1	FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
		1	2 YEAR PARTS WARRANTY.
2	MAU-1	1	SIZE 2 DIRECT FIRED HEATER LOW CFM PROFILE PACKAGE. USED ON HEATERS UNDER 2500 CFM.
		1	INLET PRESSURE GAUGE, 0-35".
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC.
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED.
		1	MOTORIZED BACKDRAFT DAMPER FOR A2-D HOUSING. MEETS AMCA CLASS 1A RATING.
		1	TOTAL CFM MONITORING FOR MUA UNITS.
		1	FREEZESTAT.
		1	IBT/MUA EVAP INTERLOCK.
		1	FREEZE PROTECTION DRAIN KIT FOR IBT/MUA WITH EVAPORATIVE COOLERS.
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
		1	2 YEAR PARTS WARRANTY.

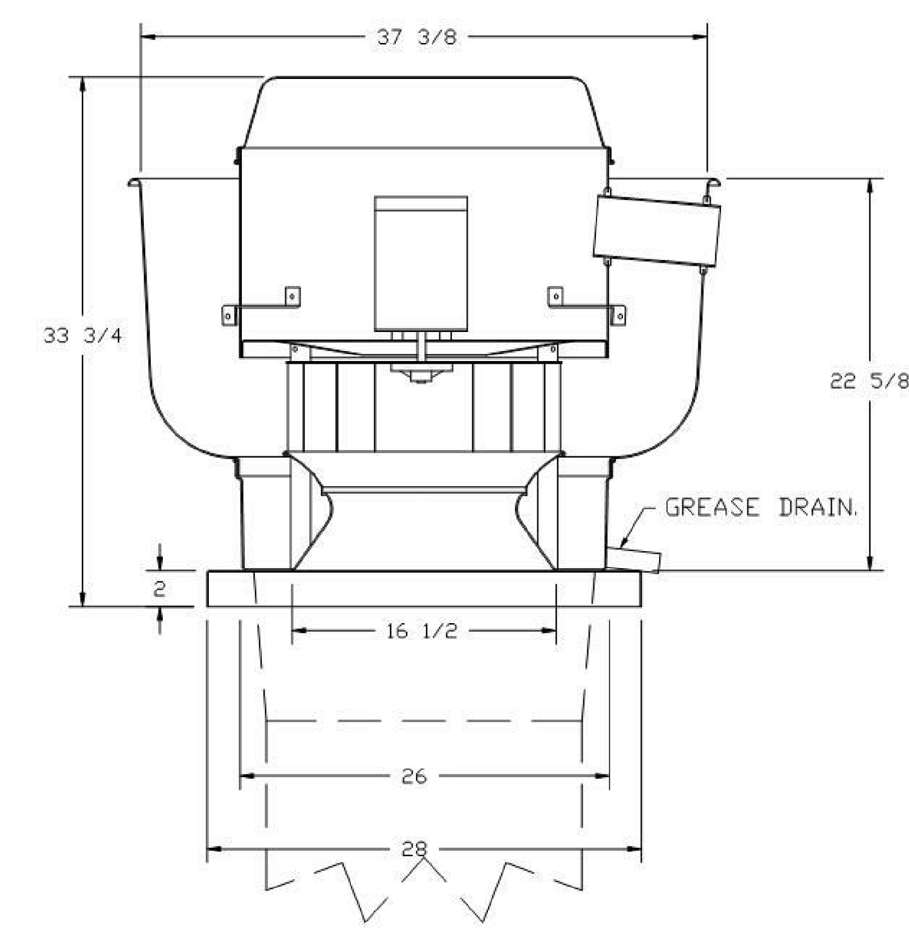
FAN ACCESSORIES

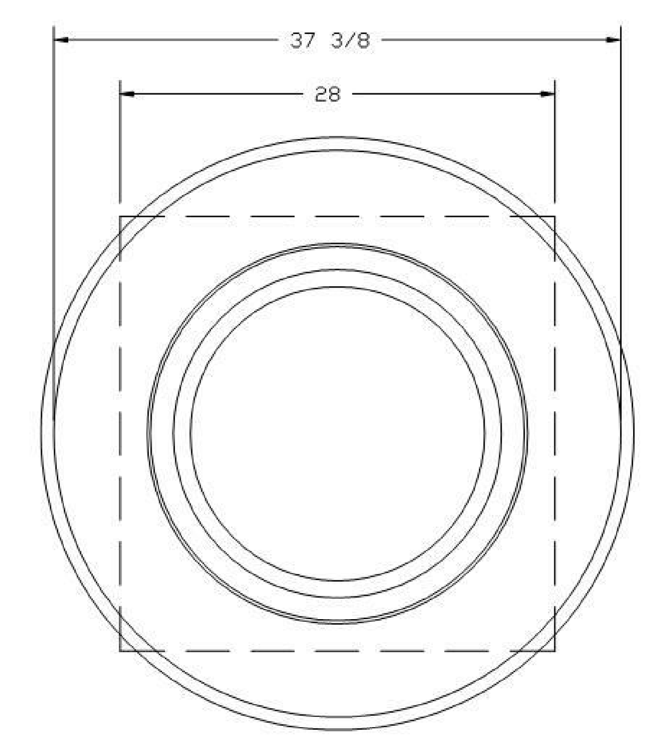
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	MAU-1				YES		YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	34 LBS	CURB	26.500"W X 26.500"L X 26.000"H 4.000:12.000 PITCH VENTED HINGED.
2	# 2		90 LBS	CURB	31.000"W X 79.000"L X 20.000"H ALONG WIDTH, RIGHT INSULATED.
	# 2			RAIL	4.000"W X 4.000"L X 36.000"HALONG LENGTH, RIGHT.

FAN #1 DU180HFA - EXHAUST FAN (KEF-1)





TOP VIEW

FEATURES:

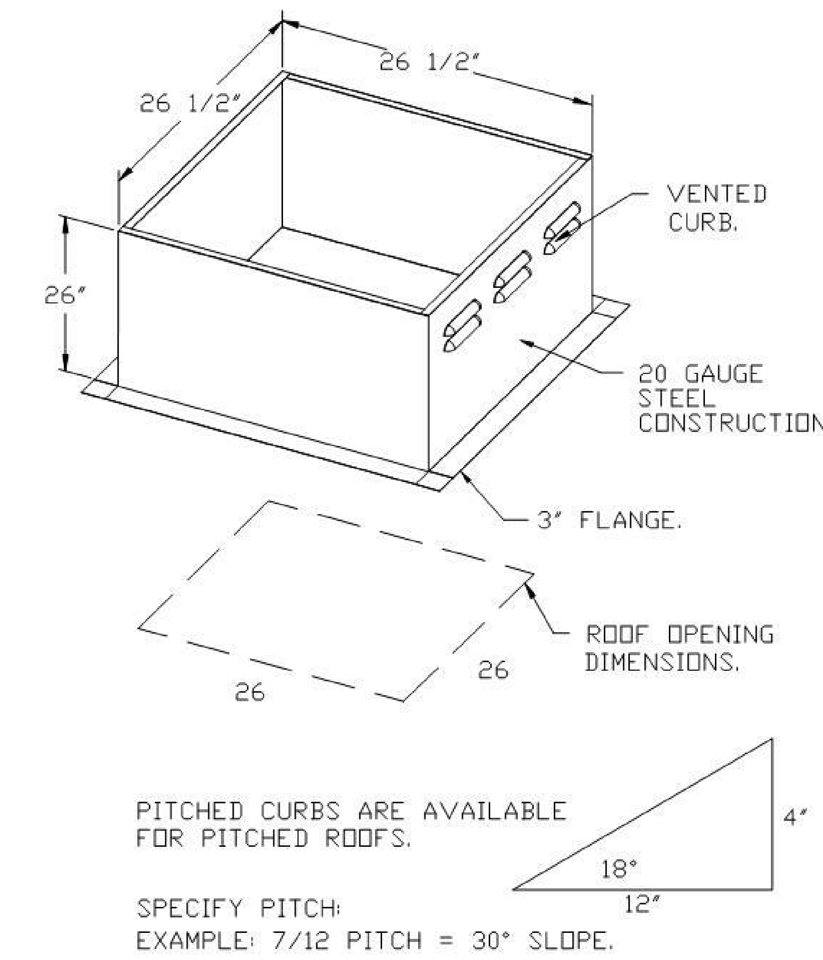
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

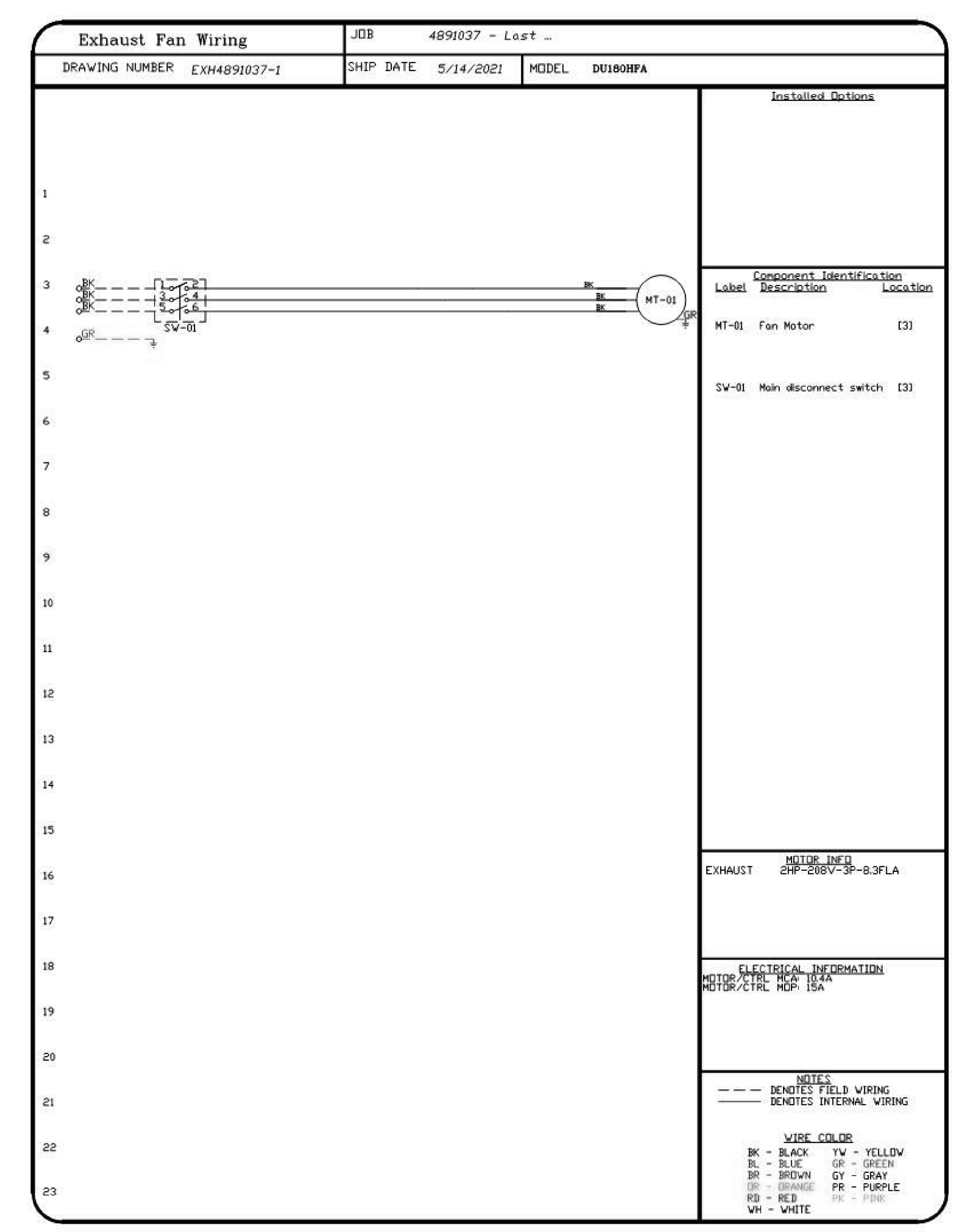
OPTIONS

GREASE BOX.
FAN BASE CERAMIC SEAL - INSTALLED AT PLANT - FOR GREASE DUCTS.
2 YEAR PARTS WARRANTY.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



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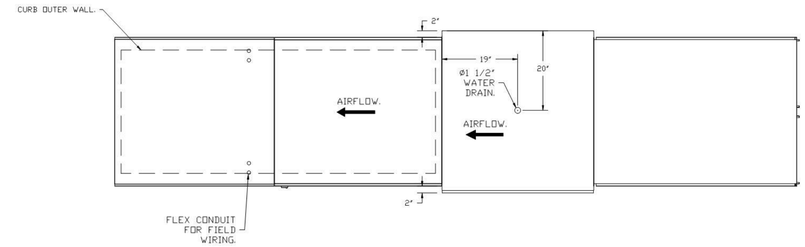
Sheet Number
M402

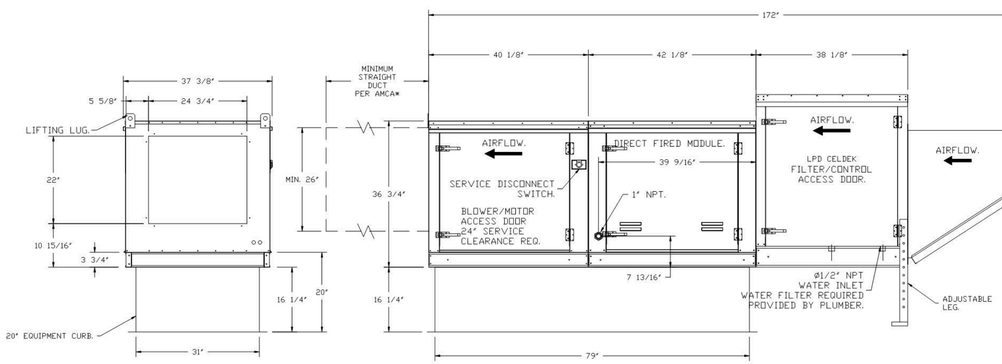
FAN #2 A2-D.250-20D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 20" MIXED FLOW DIRECT DRIVE FAN.
2. EVAP COOLER (LPD CELDEK) - W/INTAKE HOOD W/EZ FILTERS.
3. SIDE DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. PROFILE PLATE CONFIGURATION FOR SIZE 2 DIRECT FIRED UNIT FOR LOW CFM APPLICATIONS.
5. GAS PRESSURE GAUGE, 0-25", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
7. CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.
8. MOTORIZED BACK DRAFT DAMPER 22.75" X 24" FOR SIZE 2 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE. LF120S ACTUATOR INCLUDED.
9. TOTAL CFM MONITORING FOR MUA UNITS. USES +/- 15 PRESSURE TRANSDUCER, RIVET NUTS, 1/4" AIRFLOW TUBING AND PUSH TO CONNECT FITTINGS.
10. FREEZESTAT FACTORY SET AT 25°F AND 10 MINUTES.
11. LAYER CONTROL FOR 1BT EVAP.
12. FREEZE PROTECTION DRAIN CONTROL KIT FOR EVAPORATIVE COOLERS. INCLUDES 3-WAY WATER SOLENOID VALVE 8316G064 (<SHIPPED LOOSE>), PRESSURE SWITCH INSTALLED UPSTREAM OF 2WAY SOLENOID IN UNIT, BRASS TEE AND 2 NPT HALF INCH NIPPLES. FIELD WIRING REQUIRED BY OTHERS FOR 3-WAY VALVE. FOR BOTH CELDEK AND STANDARD V-BANK TYPE CONFIGURATIONS.
13. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
14. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER/EVAP SECTION).
15. 2 YEAR PARTS WARRANTY.

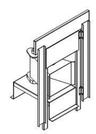
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 26" x 26".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = -20°F. TEMP. RISE = 95°F.
BTUs CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 251193.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 273036.
OUTPUT BTUs AT ALTITUDE OF 7042 FT. = 193521.
INPUT BTUs AT ALTITUDE OF 7042 FT. = 210348.







DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM 16GA GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

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www.captiveaire.com

Last Tracks BBQ -Steamboat Springs, CO R5
STEAMBOAT SPRINGS, CO, 80477

DATE: 5/14/2021
DWG.#: 4891037
DRAWN BY: CJP - 42
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 4

BID/PERMIT SUBMITTAL 5/17/2021

COLORADO LICENSED PROFESSIONAL ENGINEER
38020
05-17-2021
ERIC A. SMITH

REVISIONS

No.	Description	Date

SSRC - TORIAN BLDG C
1847 SKI TIME SQUARE DR #C2C
STEAMBOAT SPRINGS, COLORADO

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5456, (303) 442-4745 FAX

Job Number:	20013.00
Date:	5/17/21
Drawn By:	EAB
Checked By:	EAB

Project Phase
BID/PERMIT SUBMITTAL

Sheet Title
HVAC DETAILS

Sheet Number
M403

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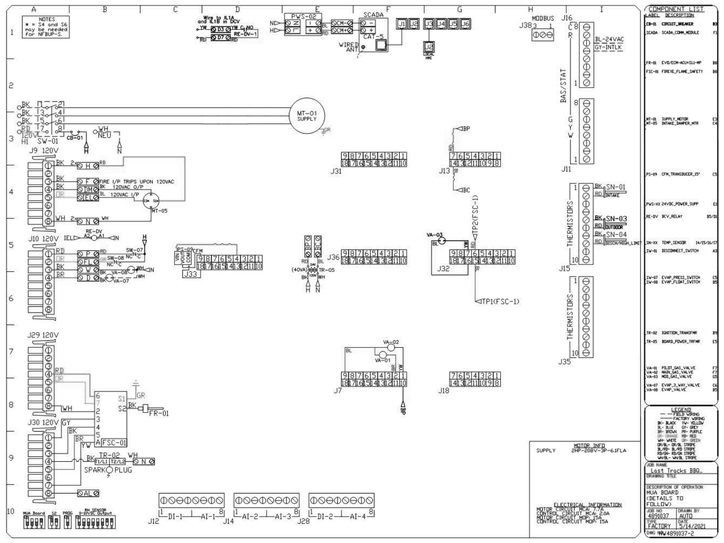
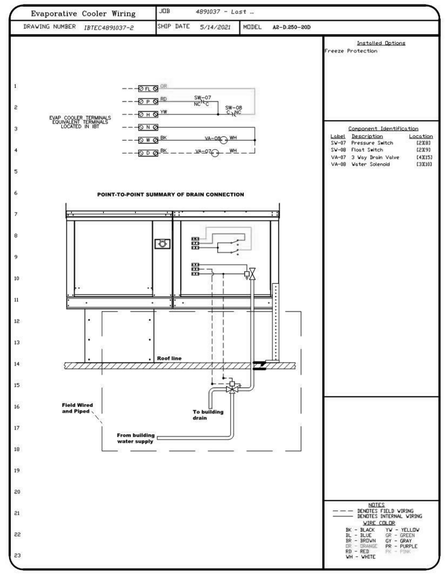


MOTOR INFO
SUPPLY 2HP-208V-3P-6.1FLA

ELECTRICAL INFORMATION
MOTOR CIRCUIT MCA: 7.7A
CONTROL CIRCUIT MCA: 2.0A
MOTOR CIRCUIT MOP: 15A
CONTROL CIRCUIT MOP: 15A

JOB NAME: Last Tracks BBQ...
DRAWING TITLE
DESCRIPTION OF OPERATION: MUA BOARD (DETAILS TO FOLLOW)
JOB NO: 4891037
DRAWN BY: AUTO
TYPE: FACTORY
DATE: 5/14/2021
DWG NO: MW4891037-2



Evaporative Cooler Wiring
JOB 4891037 - Last ...
DRAWING NUMBER IBTEC4891037-2
SHIP DATE 5/14/2021
MODEL A2-D.250-20D

Installed Options
Freeze Protection

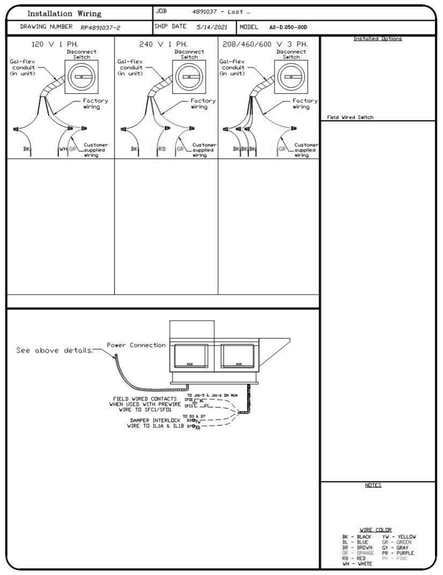
Component Identification

Label	Description	Location
SW-07	Pressure Switch	[2][8]
SW-08	Float Switch	[2][9]
VA-07	3 Way Drain Valve	[4][15]
VA-08	Water Solenoid	[3][10]

NOTES
— — — DENOTES FIELD WIRING
——— DENOTES INTERNAL WIRING

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
OR - ORANGE	PR - PURPLE
RD - RED	PK - PINK
WH - WHITE	



Installation Wiring
JOB 4891037 - Last ...
DRAWING NUMBER RP4891037-2
SHIP DATE 5/14/2021
MODEL A2-D.250-20D

Installed Options
Field Wired Switch

NOTES

WIRE COLOR

BK - BLACK	YW - YELLOW
BL - BLUE	GR - GREEN
BR - BROWN	GY - GRAY
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RD - RED	PK - PINK
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Last Tracks BBQ -Steamboat Springs, CO R5
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DRAWN BY: CJP - 42
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 5

BID/PERMIT SUBMITTAL 5/17/2021

38020
05-17-2021
PROFESSIONAL ENGINEER

NOTICE: DUTY OF COOPERATION

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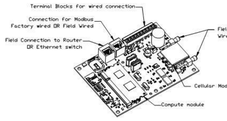

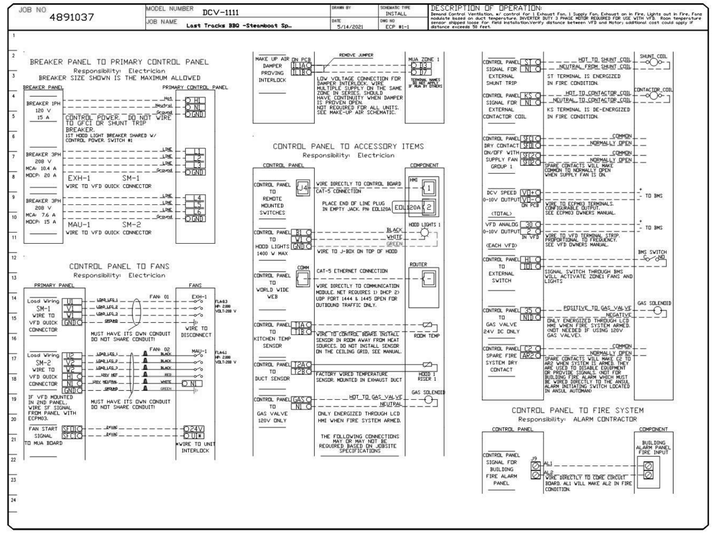

ELECTRICAL PACKAGE – JOB#4891037

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1	ECP-1	DCV-1111	UTILITY CABINET RIGHT	11 - SHIP LOOSE W/ HOOD	1 LIGHT	SMART CONTROLS DCV	KEF-1	EXHAUST	3	2.000	208	8.3
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	2.000	208	6.1

CASlink Monitor and Control

- *Hood control panel to support communications to cloud-based Building Management System.*
- *Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.*
- *Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.*

MONITORING AND CONTROL POINTS LIST

DCV Packages	*Function*
Room Temperature	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA Discharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Fan Speed	*MONITOR*
Fan Amperage	*MONITOR*
Fan Power	*MONITOR*
VFD Faults	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Prep Time Button	*MONITOR & CONTROL*
Fans Button	*MONITOR & CONTROL*
Lights Button	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

SC Packages	*Function*
Room Temperature(s)	*MONITOR*
Duct Temperature(s)	*MONITOR*
MUA DIscharge Temperature	*MONITOR*
Kitchen RTU Discharge Temperature	*MONITOR*
Controller Faults	*MONITOR*
Fan Faults	*MONITOR*
Fan Status	*MONITOR*
PCU Faults	*MONITOR*
PCU Filter Clog Percentages	*MONITOR*
Fire Condition	*MONITOR*
CORE Fire System	*MONITOR*
Building Pressures	*MONITOR*
Fans Button(s)	*MONITOR & CONTROL*
Lights Button(s)	*MONITOR & CONTROL*
Wash Button	*MONITOR & CONTROL*

HOOD CONTROL PANEL- DEMAND CONTROL VENTILATION (DCV)

Written Specifications: The hood control panel with demand control ventilation automatically modulates fans based on cooking load. Modulation allows for energy savings compared to fans running on high speed during cooking operation.

Listings: Models Electrical Control Panel are ETL Listed under file number 101754591COL-001 and complies with UL508A Standards and CAN/CSA C22.2, No. 14-05 Standards.

ECPM03 Circuit Board is ETL Listed under file number 100901773BOX-001 and complies with UL 61010-1 Standard and CAN/CSA C22.2, No. 61010-1 Standards.

Sequence of Operations: The hood control panel interlocks the exhaust fan with makeup air unit.

The hood control panel is capable of operating in one or more of the following states at any given time.

Automatic: The DCV hood control package is designed to thermostatically activate the exhaust fans and make-up air for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.1.1 and IMC 508.1 by providing a thermostat(s) mounted in the duct or hood riser to sense increased exhaust temperatures.

Once the duct temperature reaches the activation point, the exhaust fans and MAU will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking appliances have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also exists to keep the fans running for at least 30 min after being activated by the temperature rise.

The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.

The DCV turns down to 20-25% of total exhaust in prep mode. The system is capable of turning down to 0% when operating automatically if it does not sense a need for hood operation. The DCV will modulate the fans it is controlling based on demand and the low speed and high speed settings are fully adjustable based on demand.

In the event of a fire, there are two forms of activation. The mechanical remote pull may be activated or the mechanical detection link in the hood may melt. The Ansul Automan takes this mechanical activation and converts it to an electric notification signal via the microswitch and building-initiating switch. In either event, the DCV will be electrically notified via the Ansul Automan. The DCV will then turn ON the exhaust fan, turn off the make-up air unit and turn off the hood lights. The Ansul Automan will close the mechanical gas valve to close the gas line or if an electric gas valve is used, the hood control panel will send a signal to the shunted portion of the breaker panel to remove power from the cooking appliances. The building-initiating switch can be used to notify the building alarm system.

Manual: The system operates based on human input from an HMI.

Schedule: A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.

Other: The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)

ROOM TEMPERATURE SENSOR

The Room Temperature sensor is a 10K Ohm Thermistor. The sensor provides constant room temperature to the controller. It should be installed on a wall somewhere in the space but not directly under the hood or close to an appliance so that the reading is not affected by heat.

Typically a system will have one room temperature sensor. However, systems configured with 2 fan zones have the option to be ordered with 2 room temperature sensors, one for each zone. They should be mounted in the space accordingly.

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DESCRIPTION	DATE:
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DRAWN BY: CJP - 42

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 6

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Project Phase
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Sheet Title
HVAC DETAILS

Sheet Number
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