

H.V.A.C. SPECIFICATIONS:

15010 MECHANICAL REQUIREMENTS:

DO ALL WORK IN COMPLIANCE WITH ALL APPLICABLE CODES, LAWS AND ORDINANCES, THE STANDARD BUILDING CODE AND THE REGULATIONS OF THE LOCAL UTILITY COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS.

COOPERATE WITH OTHER TRADES AND CONTRACTORS AT JOB. PERFORM WORK IN SUCH MANNER AND AT SUCH TIMES AS NOT TO DELAY WORK OF OTHER TRADES.

OBTAIN MANUFACTURER'S DATA ON ALL EQUIPMENT, THE DIMENSIONS OF WHICH MAY AFFECT INSTALLATION. USE THIS DATA TO COORDINATE PROPER SERVICE CHARACTERISTICS, ENTRY LOCATIONS, ETC., AND TO INSURE MINIMUM CLEARANCES ARE MAINTAINED.

WORKMAN SHALL BE EXPERIENCED IN THEIR RESPECTIVE TRADE. WORKMANSHIP OF INSTALLED WORK SHALL BE FIRST CLASS AND WILL BE SO JUDGED. SUBSTANDARD WORK SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT ANY COST TO THE OWNER.

PROVIDE ONLY NEW, STANDARD FIRST-GRADE MATERIALS THROUGHOUT, CONFORMING TO STANDARDS ESTABLISHED BY UNDERWRITER LABORATORIES INC., AND SO MARKED AND LABELED, TOGETHER WITH MANUFACTURER'S BRAND OR TRADEMARK. ALL LIKE ITEMS SHALL BE OF ONE MANUFACTURER.

ALL WORK SHALL BE EXECUTED IN A MANNER THAT SHALL PRESENT A NEAT APPEARANCE UPON COMPLETION. CARE SHALL BE EXERCISED THAT ALL ITEMS ARE PLUMB, STRAIGHT AND LEVEL.

UPON COMPLETION OF WORK, ALL SYSTEMS SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PERFECT WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE DRAWINGS.

ANY WALLS, CEILINGS, EQUIPMENT, ETC., DAMAGED BY THE CONTRACTOR IN CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED, RESTORED AND/OR REPLACED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION, OR TO PERFORM ITS INTENDED FUNCTION, AT NO ADDITIONAL COST TO OWNER.

15055 PIPING:

PIPING SHALL BE NEW AND IN GOOD CONDITION. ALL PIPING SHALL CONFORM TO ALL APPLICABLE STATE, COUNTY AND LOCAL CODES.

PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES.

PIPING SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION. OFFSETS AS REQUIRED TO COORDINATE WITH STRUCTURE AND OTHER TRADES SHALL BE MADE AT NO ADDITIONAL COST.

PIPING SHALL BE TESTED IN ACCORDANCE WITH INDUSTRY ACCEPTED METHODS. LEAKS SHALL BE REPAIRED AND ANY LOST REFRIGERANT SHALL BE REPLACED AT NO ADDITIONAL COST.

DIELECTRIC UNIONS SHALL BE INSTALLED IN ALL COPPER AND FERROUS PIPING CONNECTIONS.

15891 DUCTWORK:

ALL DUCTWORK MATERIALS AND INSTALLATION SHALL CONFORM TO APPLICABLE STATE, COUNTY AND LOCAL CODES. DUCTWORK SHALL BE ALL NEW AND IN GOOD CONDITION.

DUCT DIMENSIONS NOTED ARE INSIDE DIMENSIONS AND DO NOT INCLUDE INSULATION OR LINER.

DUCTWORK SHALL BE INSTALLED TO AVOID CONFLICT WITH OTHER TRADES. ANY OFFSETS REQUIRED SHALL BE INSTALLED AT NO ADDITIONAL COST.

FABRICATE DUCTWORK FROM SHEET METAL. DUCT SHALL BE INSULATED WITH 3" DUCT WRAP INSULATION. DUCTWORK SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA LOW PRESSURE DUCTWORK STANDARDS.

15990 TEST AND BALANCE:

TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC AND/OR NEBB REQUIREMENTS. ALL EQUIPMENT USED FOR TESTING SHALL BE IN PROPER WORKING ORDER.

THE CONTRACTOR SHALL REGULATE AND ADJUST ALL SPLITTERS, DEFLECTORS AND DAMPERS SO THAT THE INLET OR OUTLET SHALL DELIVER OR REMOVE THE REQUIRED NUMBER OF CUBIC FEET OF AIR PER MINUTE (CFM) AT THE RESPECTIVE OPENINGS.

15991 VIBRATION AND NOISE:

PROVIDE VIBRATION ISOLATORS AND ACOUSTIC INSULATION AS REQUIRED TO ELIMINATE ANY OBJECTIONABLE NOISE OR VIBRATION.

HVAC GENERAL NOTES

- 1. CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONAL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM PER THESE CONTRACT DOCUMENTS.
2. ALL MECHANICAL EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE, THE INTERNATIONAL BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 96, 101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
3. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ARCHITECT.
4. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 1/4" SCALE AND CONTROL WIRING SCHEMATICS APPROVED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER.
5. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
6. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS AND ELECTRICAL DRAWINGS.
7. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK. WIRING IN HVAC PLENUM SPACES SHALL BE INSTALLED ACCORDING TO CODE REQUIREMENTS.
8. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
9. RTU'S SHALL BE INSTALLED WITH A SMOKE DETECTOR IN THE SUPPLY DUCTWORK. THE SMOKE DETECTOR SHALL BE WIRED TO STOP THE FAN UPON DETECTION OF SMOKE. SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE.
10. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
11. ALL MECHANICAL EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
12. ALL HVAC COMPRESSORS SHALL HAVE EXTENDED 5-YEAR MANUFACTURER'S WARRANTY.
13. DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AS RECOMMENDED IN SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL JOINTS AND SEAMS SHALL BE SEALED WITH DUCT SEALER.
14. ALL DUCTWORK SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. DUCT SUPPORTS AND ATTACHMENT TO STRUCTURE SHALL BE AS PER SMACNA STANDARDS.
15. FLEXIBLE DUCTWORK SHALL BE ATCO #888 WITH BLACK POLYETHYLENE VAPOR BARRIER OR EQUAL, SAME SIZE AS DIFFUSER NECKS, MAXIMUM 6'-0" LONG. FLEXIBLE DUCTWORK SHALL BE INSTALLED AS STRAIGHT AS POSSIBLE, AND SHALL BE ROUTED AND SUPPORTED WITHOUT FORMING CRIMPS OR OTHER AIR FLOW RESTRICTIONS.
16. ROUND AND FLEXIBLE DUCTWORK SHALL BE CONNECTED TO MAIN DUCTS WITH SPIN-IN FITTINGS WITH AIR EXTRACTORS AND BALANCING DAMPERS.
17. CONDENSATE FROM ALL AIR CONDITIONING EQUIPMENT SHALL BE TRAPPED AND ROUTED TO THE NEAREST APPROVED LOCATION.
18. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT.
19. ALL ROOFTOP MOUNTED EQUIPMENT SHALL BE INSTALLED LEVEL ON AND ANCHORED TO MINIMUM 12" HIGH INSULATED ROOF CURBS. CONTRACTOR SHALL COORDINATE ROOF SLOPE AND ACTUAL CURB HEIGHTS WITH ARCHITECTURAL DRAWINGS. ALL REFERENCES TO ROOF HEIGHTS REFER TO HEIGHTS ABOVE FINISHED ROOF SURFACE.
20. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, ETC.
21. DUCTWORK CONNECTING KITCHEN EXHAUST HOODS TO ROOFTOP EXHAUST/SUPPLY FANS SHALL BE CONSTRUCTED OF BLACK STEEL WITH WELDED SEAMS, 16 GAUGE. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO REQUIREMENTS OF LOCAL CODE AUTHORITIES AND NFPA-96 REQUIREMENTS. INSTALL ACCESS DOORS AT EACH CHANGE OF DIRECTION.
22. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE INSULATED PER NFPA 96 AND LOCAL CODE REQUIREMENTS.
23. MANUAL OVER-RIDE CONTROL (EMERGENCY SHUT-DOWN) SWITCHES FOR ALL HVAC UNITS SHALL BE LOCATED IN LOCKING COVER ADJACENT TO FIRE ALARM ANNUNCIATOR PANEL OR OTHER LOCATION APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION.
24. ROOFTOP HVAC UNITS SHALL BE INSTALLED SUCH THAT ROOF DECK IS COMPLETE AND CONTIGUOUS UNDER BOTTOMS OF HVAC UNITS, AND SHALL BE CUT ONLY FOR UNIT SUPPLY AND RETURN OPENINGS. SPACE BETWEEN ROOF DECK AND BOTTOM OF ROOFTOP HVAC UNITS (INSIDE OF ROOF CURBS) SHALL BE FILLED WITH HIGH DENSITY ACOUSTICAL INSULATION.

HVAC LEGEND

Table with 3 columns: SYMBOL, DESCRIPTION, ABBREVIATIONS. Includes symbols for floor levels, horsepower, British Thermal Unit, ceiling diffuser, return grille, diffuser type, dry bulb, duct size, energy efficiency rating, entering air temperature, equipment number designation, exhaust fan, external static pressure, fly fan, horsepower, humidistat, inches water column, kilowatt, leaving air temperature, manual volume damper, thousand BTU/hour, negative pressure duct, outside air, packaged rooftop unit, positive pressure duct, remote temperature sensor, return air, seasonal energy efficiency rating, smoke detector, spin in fitting, supply air, thermostat, undercut door, wet bulb.

SEQUENCE OF OPERATION:

GENERAL

SPACES SHALL BE CONDITIONED USING DX ROOFTOP AIR CONDITIONING UNITS (RTUS) THE OUTSIDE AIR REQUIRED FOR THE BUILDING IS TO BE PRECONDITIONED AND DELIVERED DIRECTLY TO THE SPACES THROUGH THE RTUS.

THE RTU CONTROLLER (RDC) SHALL PERFORM ALL CONTROL, SAFETY AND INTERLOCKS AS DESCRIBED IN THE SEQUENCE OF OPERATION. THE BMS SHALL MONITOR THE RTU DDC CONTROLLER VIA BMS PROTOCOL COMMUNICATION AND/OR COMBINATION OF DISCRETE INPUT/OUTPUT POINTS.

DURING OCCUPIED MODE THE SUPPLY FANS FOR THE RTUS SHALL BE ENERGIZED AND REMAIN ON TO MAINTAIN BUILDING PRESSURIZATION.

THE THERMOSTAT SHALL BE SET TO 75°F (ADJ.) COOLING AND 70°F (ADJ.) HEATING. THE HUMIDISTAT SHALL BE SET TO 60% RH (ADJ.).

DX ROOFTOP UNITS (RTU-1&2)

OCCUPIED COOLING ONLY: WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT DEAD BAND AS DETECTED BY THE SPACE THERMOSTAT AND THE HUMIDISTAT IS SATISFIED, THE COMPRESSOR AND OUTDOOR FAN SHALL BE ENERGIZED TO MEET THE THERMOSTAT SETPOINT (USER ADJUSTABLE).

OCCUPIED COOLING AND DEHUMIDIFICATION:

WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT DEAD BAND AS DETECTED BY THE SPACE THERMOSTAT AND THE RELATIVE HUMIDITY RISES ABOVE THE RH SETPOINT AS DETERMINED BY THE HUMIDISTAT THE UNIT SHALL OPERATE IN SUBCOOLING MODE. HOT LIQUID REFRIGERANT FROM THE CONDENSER IS SHUNTED TO THE RE-HEAT COIL DOWNSTREAM OF THE DX COOLING COIL AS THE HOT LIQUID RE-HEATS THE AIR IT IS SUB-COOLED. THE PROCESS WILL CONTINUE UNTIL THE UNIT SATISFIES BOTH THE TEMPERATURE AND HUMIDITY SET POINTS OR CONVERTS TO COOLING ONLY OR DEHUMIDIFICATION ONLY.

OCCUPIED DEHUMIDIFICATION ONLY:

WHEN THE SPACE TEMPERATURE IS SATISFIED AND THE RELATIVE HUMIDITY RISES ABOVE THE RH SETPOINT AS DETERMINED BY THE HUMIDISTAT THE UNIT SHALL OPERATE IN HOT GAS REHEAT MODE. GAS FROM THE COMPRESSOR MIXES WITH THE HOT LIQUID REFRIGERANT FROM THE CONDENSER AND IS SHUNTED THROUGH THE RE-HEAT COIL DOWNSTREAM OF THE DX COOLING COIL UNTIL THE HUMIDITY IS BELOW SET POINT.

OCCUPIED HEATING:

THE MODULATING GAS HEAT SHALL ENERGIZE AS REQUIRED TO MAINTAIN TEMPERATURE SETPOINT.

ECONOMIZER OPERATION:

BASED ON THE RTU INTERNAL CONTROLS, THE RDC SHALL VARY THE OUTSIDE AIR DAMPER POSITION, BASED ON CALL FOR COOLING IN THE SPACE.

UNOCCUPIED MODE:

THE THERMOSTAT SHALL BE SET A MINIMUM OF 5°F ABOVE THE OCCUPIED COOLING SET POINT AND BELOW THE HEATING SET POINT. UNITS SHALL ONLY BE ENERGIZED ON A CALL FROM THE THERMOSTAT.

ALARMS:

THE BMS SHALL MONITOR ALL SAFETIES ON THE REFRIGERANT SYSTEM AND THE HEATING SYSTEM THROUGH THE RDC COMMUNICATION PROTOCOL. ALL ABNORMAL CONDITIONS SHALL BE ALARMED AT THE BMS.

FILTERS: THE RDC SHALL MONITOR THE STATIC PRESSURE DROP ACROSS THE FILTER BANK AND ALARM ON HIGH STATIC PRESSURE DROP.

FIRE/SMOKE CONTROL: UPON ACTIVATION OF A DUCT SMOKE DETECTOR, THE BMS AND THE FIRE ALARM CONTROL PANEL SHALL RECEIVE AN ALARM.

GENERAL ALARM: ANY TROUBLE ALARM OR FAULT WITHIN THE UNIT ONBOARD CONTROLS WILL GENERATE A GENERAL ALARM TO THE BMS.

EXHAUST (KEF-1&2, EF-1)

EXHAUST FANS SHALL RUN CONTINUOUSLY DURING HOURS OF OPERATION. FANS SHALL BE OFF DURING UNOCCUPIED HOURS.

SCHEDULE - ROOFTOP UNITS

Table with columns: TAG, MODEL No., TOTAL CFM, MIN. O.A. CFM, ESP, FAN HP, MBH TOT. COOL, MBH SEN. COOL, E.A.T. db/wb, L.A.T. db/wb, IEER, VOLTAGE /ø, MCA, MOCP, GAS INPUT MBH, GAS OUTPUT MBH, WEIGHT (LB), ACCESSORIES. Includes rows for RTU-1, RTU-2 and accessories list.

SCHEDULE - AIR BALANCE

Table with columns: TAG, EXHAUST CFM, OUTSIDE AIR CFM. Includes rows for KEF-1, KEF-2, EF-1, RTU-1, RTU-2, TOTALS, BUILDING TOTALS.

SCHEDULE - FANS

Table with columns: TAG, MODEL, DUTY, CFM, E.S.P., MOTOR SIZE, RPM, DRIVE, ACCESSORIES. Includes rows for EF-1, KEF-1, KEF-2 and accessories list.

SCHEDULE - AIR DISTRIBUTION

Table with columns: TAG, SERIES, CFM, DUTY, NECK, SIZE, DAMPER, MATERIAL, DESCRIPTION. Includes rows A through F and a description section.

OUTSIDE AIR / EXHAUST VENTILATION COMPLIANCE

Table with columns: UNIT NUMBER, AREA CLASSIFICATION, AREA (SQ. FT.), NO. OF PEOPLE PER 1000 SQ. FT., PEOPLE QUANTITY, AIRFLOW PER PERSON, AIRFLOW PER SQ. FT., TOTAL OUTSIDE AIR REQUIRED (CFM), OUTSIDE AIR PROVIDED (CFM), EXHAUST AIR REQUIRED (CFM/SQ.FT.), EXHAUST AIR REQUIRED (CFM)\*\*\*, EXHAUST AIR PROVIDED (CFM). Includes rows for RTU-2, EF-1, RTU-1, KEF-1&2, TOTALS and notes.

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ISSUES / REVISIONS: DATE DESCRIPTION 12-21-21 FOR REVIEW/COORDINATION 03-22-24 FOR PERMIT / CONSTRUCTION

DRAWN BY: JWE CHKD BY: JWE

WHATABURGER 3550 SANDY PLAINS ROAD N.E. MARIETTA, GA 30066



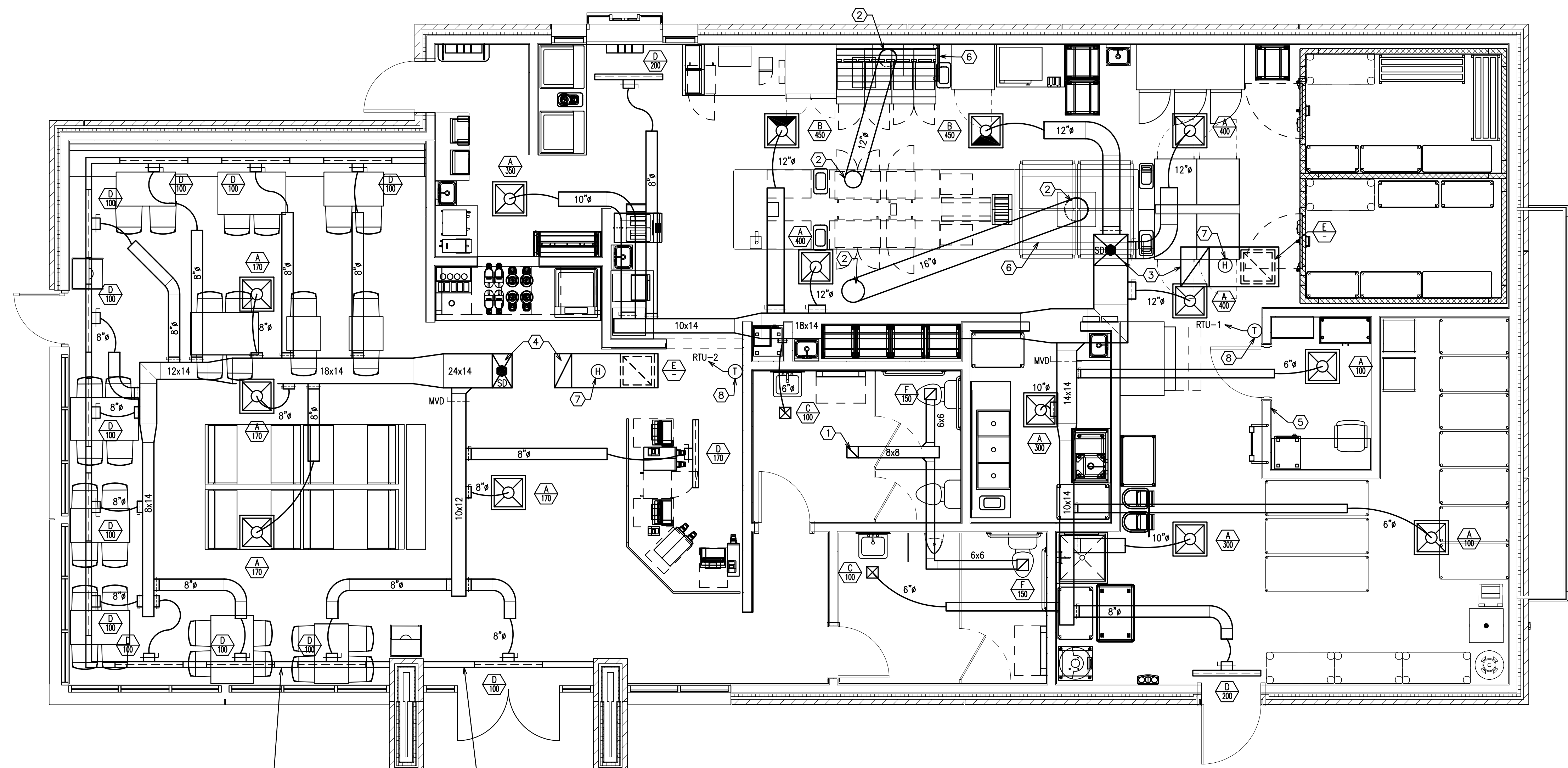
SHEET TITLE:

NOTES, SCHEDULES, LEGEND - HVAC

PROJECT NO: 23069

MO.1

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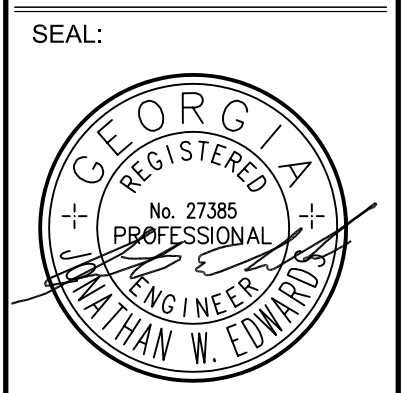
PROVIDE CONTINUOUS 1" SLOT AROUND PERIMETER OF DINING CEILING WITH 4" ACTIVE SECTIONS AND INSULATED PLENUMS. BLANK OFF INACTIVE SECTIONS. REFER TO ARCHITECTURAL CEILING PLAN AND DETAILS.

**1 FLOOR PLAN - HVAC**  
M1.1 SCALE: 1/4"=1'-0"



- KEYNOTES (THIS DRAWING)**
- 1 8x8 EXHAUST DUCT UP TO ROOF MOUNTED EXHAUST FAN (EF-1). TRANSITION TO FAN CONNECTION SIZE. MAINTAIN MINIMUM 10' SEPARATION BETWEEN FAN AND ANY OUTSIDE AIR INTAKES.
  - 2 MINIMUM 16 GA. STEEL GREASE EXHAUST DUCT. ROUTE FULL SIZE FROM TRANSITION AT HOOD COLLAR TO EXHAUST FAN AT ROOF. WRAP ENTIRE LENGTH OF DUCT WITH 3M FIREMASTER DUCT WRAP OR EQUIVALENT. PROVIDE CLEANOUTS AT TRANSITIONS AND AS REQUIRED. MAINTAIN MINIMUM 10' BETWEEN FAN AND OUTSIDE AIR INTAKES.
  - 3 24x22 SUPPLY DUCT AND 28x20 RETURN DUCT UP TO RTU-1. TRANSITION TO UNIT CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION.
  - 4 24x14 SUPPLY DUCT AND 24x12 RETURN DUCT UP TO RTU-2. TRANSITION TO UNIT CONNECTION SIZE AND PROVIDE FLEXIBLE CONNECTION.
  - 5 EMERSON SITE SUPERVISOR DISPLAY AND CONTROLLER PANEL RECESSED AND FLUSH MOUNTED IN WALL AT 5' AFF TO CENTER.
  - 6 KITCHEN HOODS, ANSUL FIRE SUPPRESSION SYSTEM AND HOOD CONTROLS SHALL BE OWNER FURNISHED AND INSTALLED BY CONTRACTOR.
  - 7 MOUNT HUMIDISTAT IN R/A DUCT.
  - 8 MOUNT REMOTE TEMPERATURE SENSOR 84" A.F.F. MINIMUM.

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DRAWN BY: JWE  
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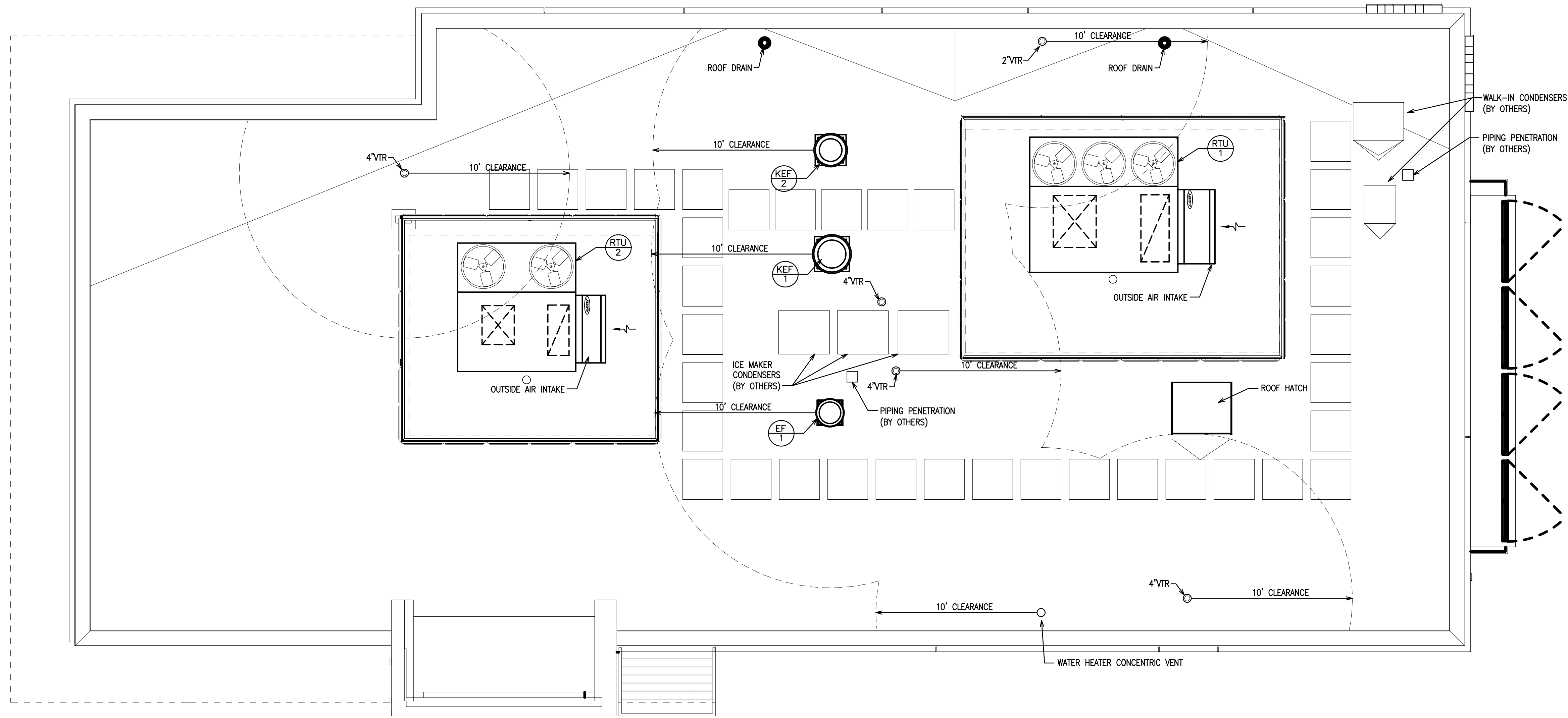
SHEET TITLE:

FLOOR PLAN - HVAC

PROJECT NO: 23069

**M1.1**

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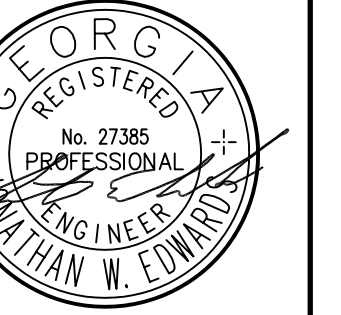
1 ROOF PLAN - HVAC  
M1.2 SCALE: 1/4"=1'-0"

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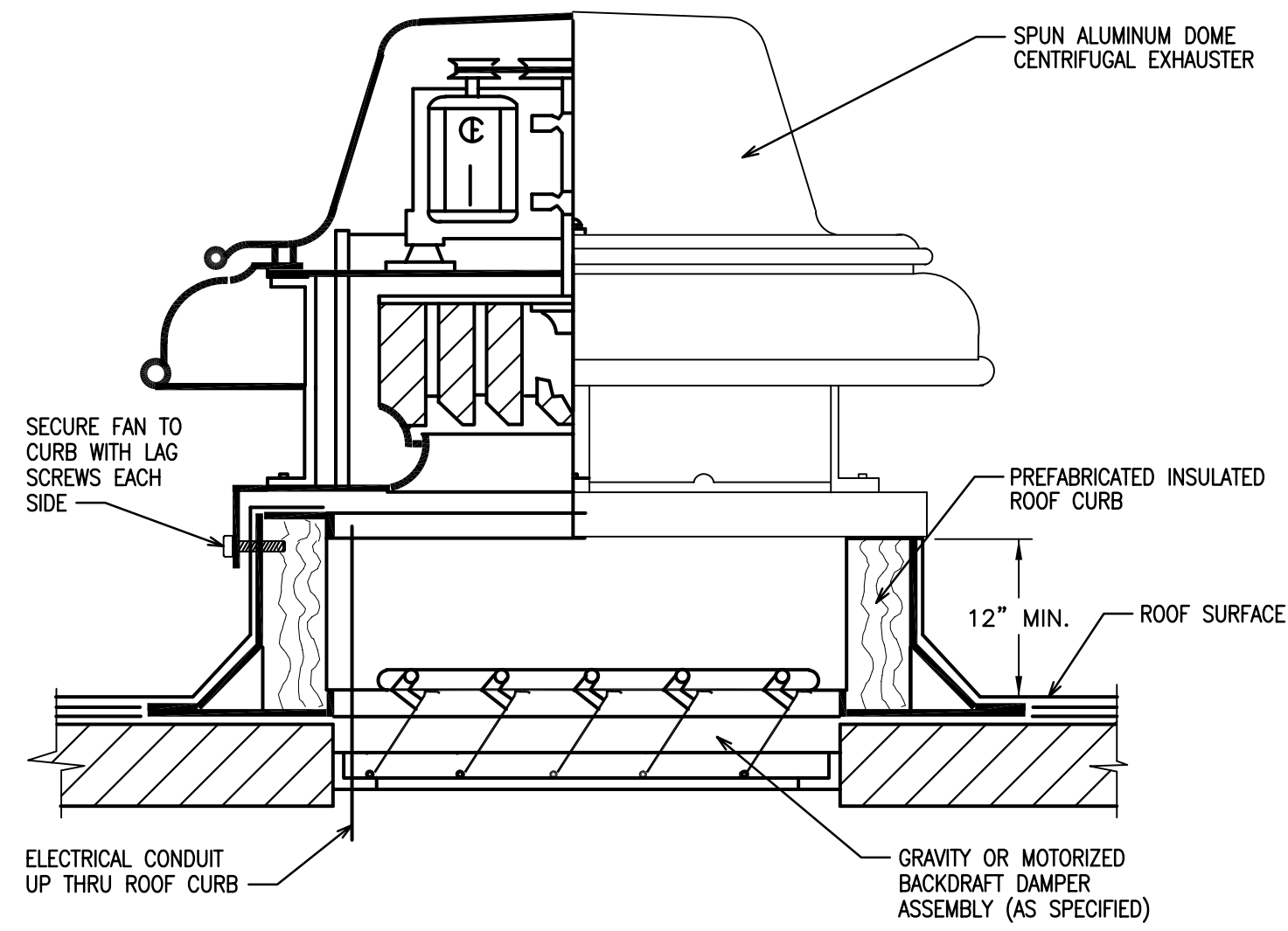


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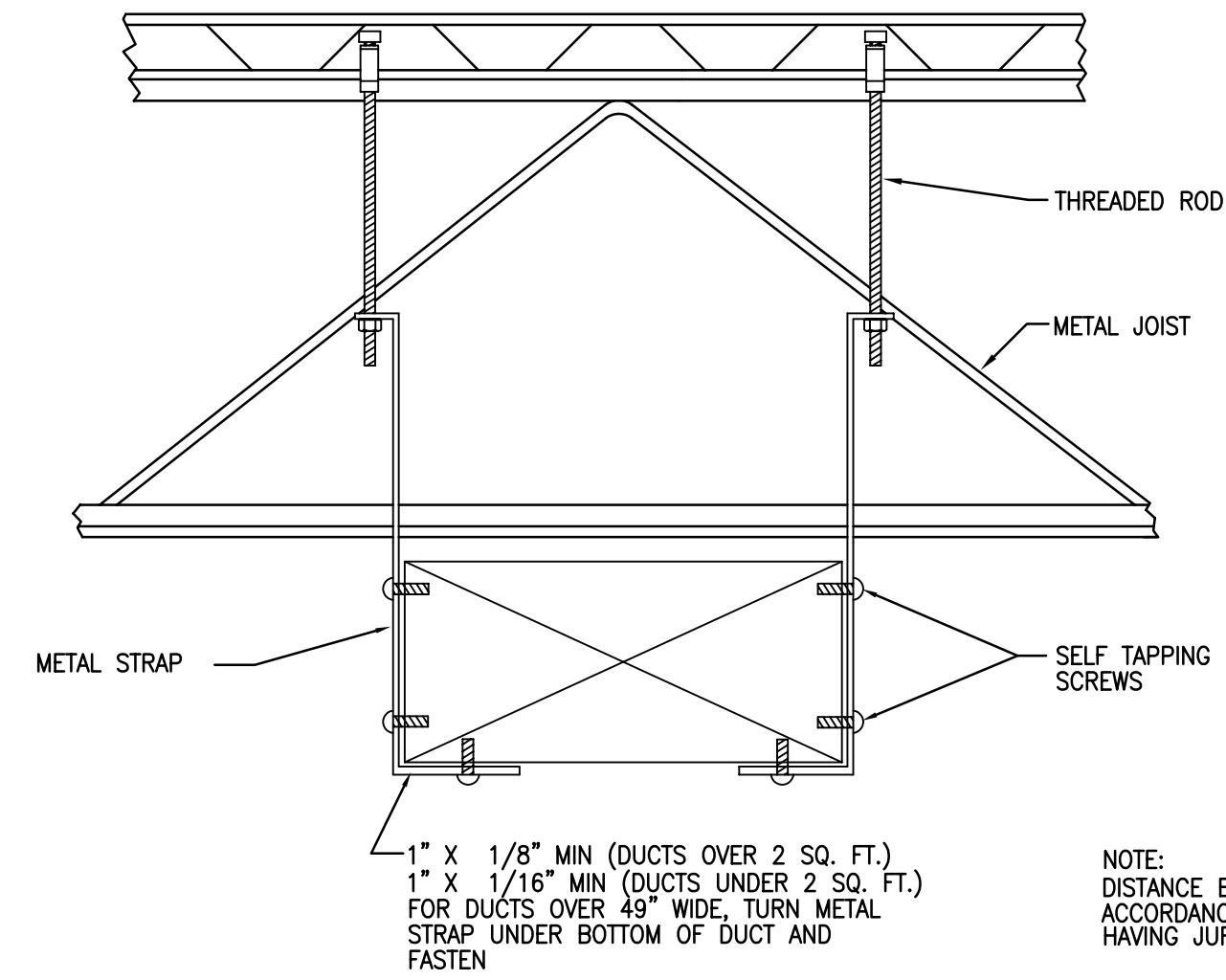
ROOF PLAN -  
HVAC

PROJECT NO: 23069

M1.2



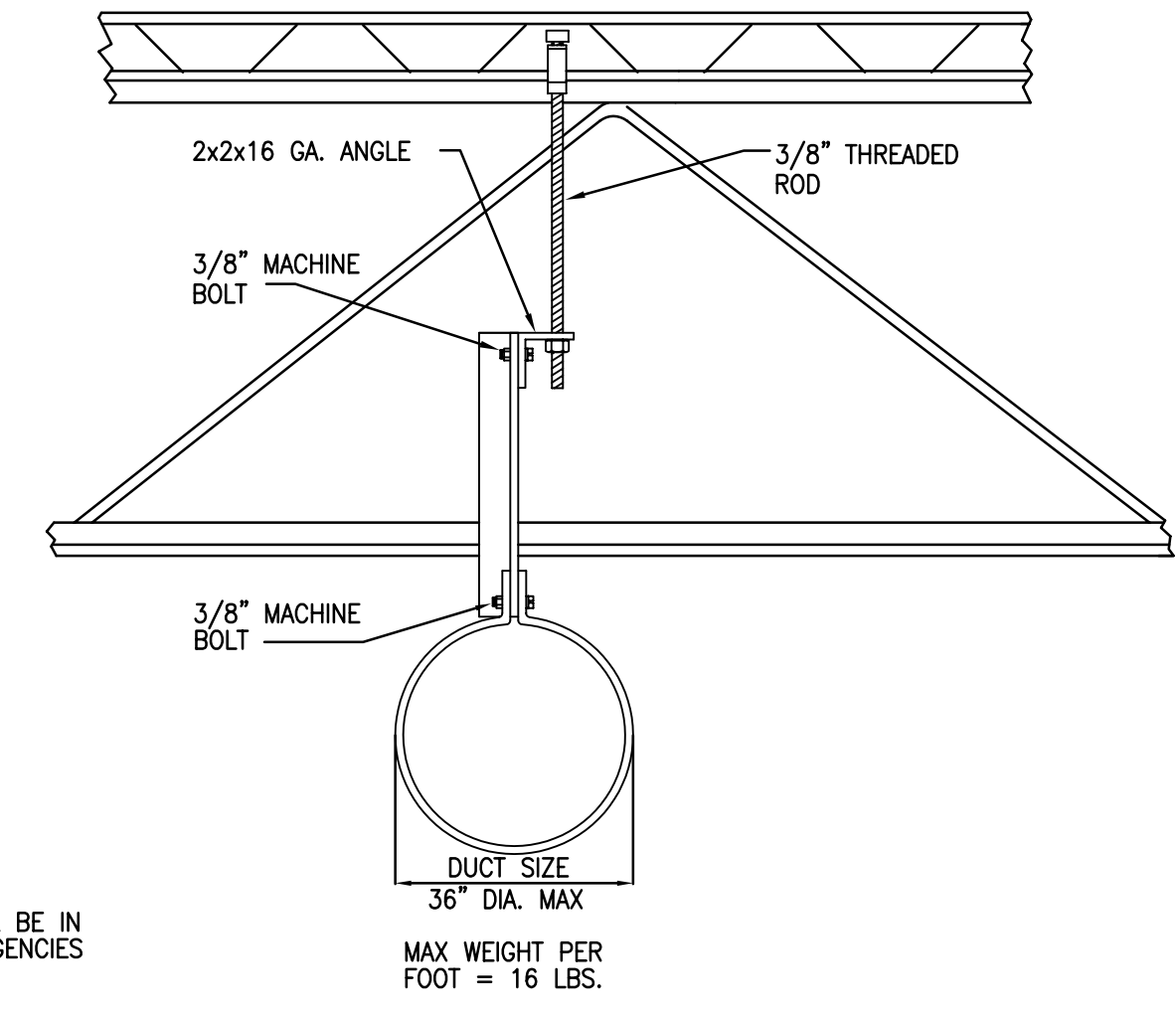
**ROOF-MOUNTED CENTRIFUGAL EXHAUST FAN**  
SCHEMATIC - NO SCALE



**DUCTWORK SUPPORT DETAIL**

NOT TO SCALE

MAX. SIDE INCHES	MIN. GALV. SHT. GAUGE	ALUMINUM MIN. B & S GAUGE
THROUGH 12	26 (0.022 IN.)	24 (0.020 IN.)
13 THROUGH 30	24 (0.028 IN.)	22 (0.025 IN.)
31 THROUGH 54	22 (0.034 IN.)	20 (0.032 IN.)
55 THROUGH 84	20 (0.040 IN.)	18 (0.040 IN.)
OVER 84	18 (0.052 IN.)	16 (0.051 IN.)

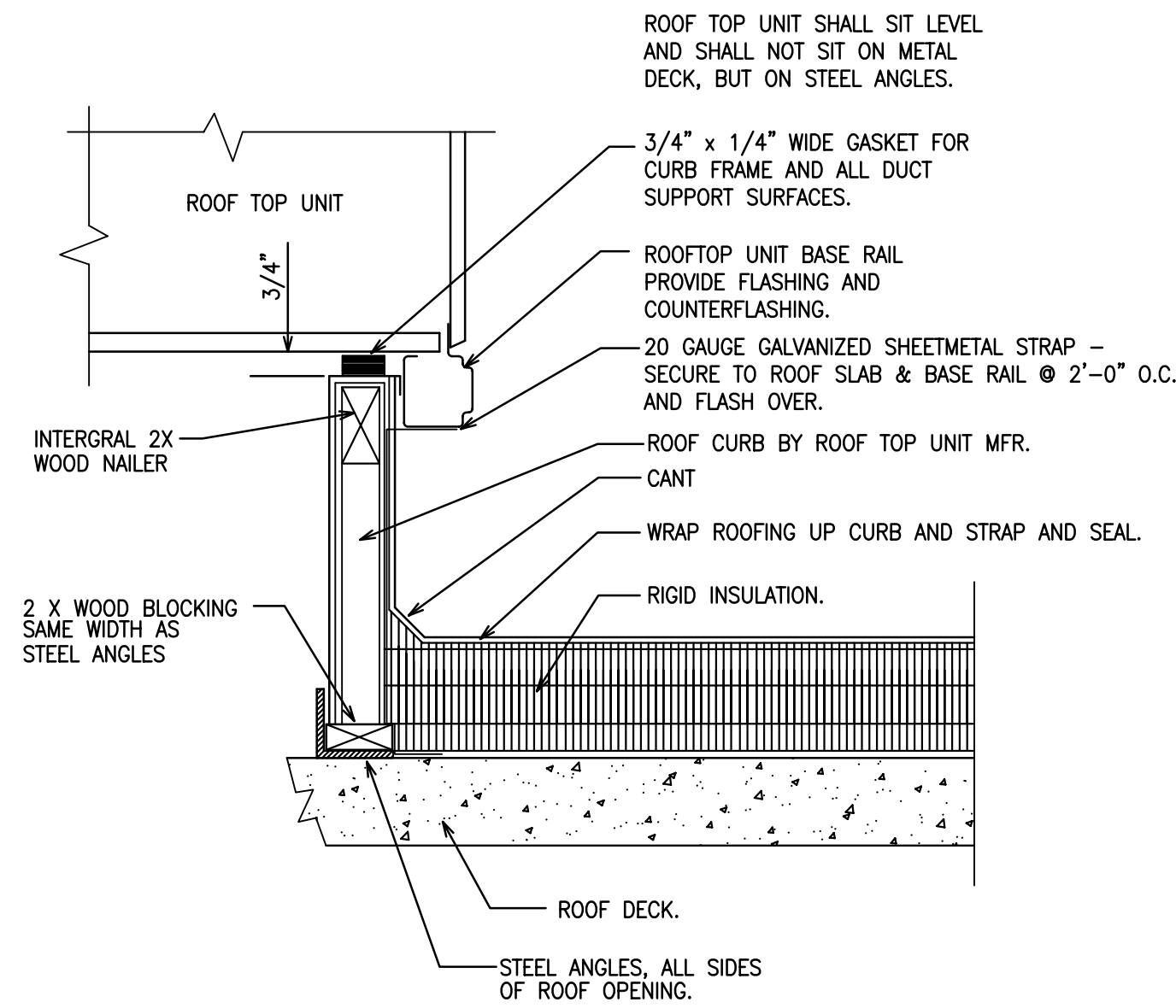


**ROUND DUCT SUPPORT DETAIL**

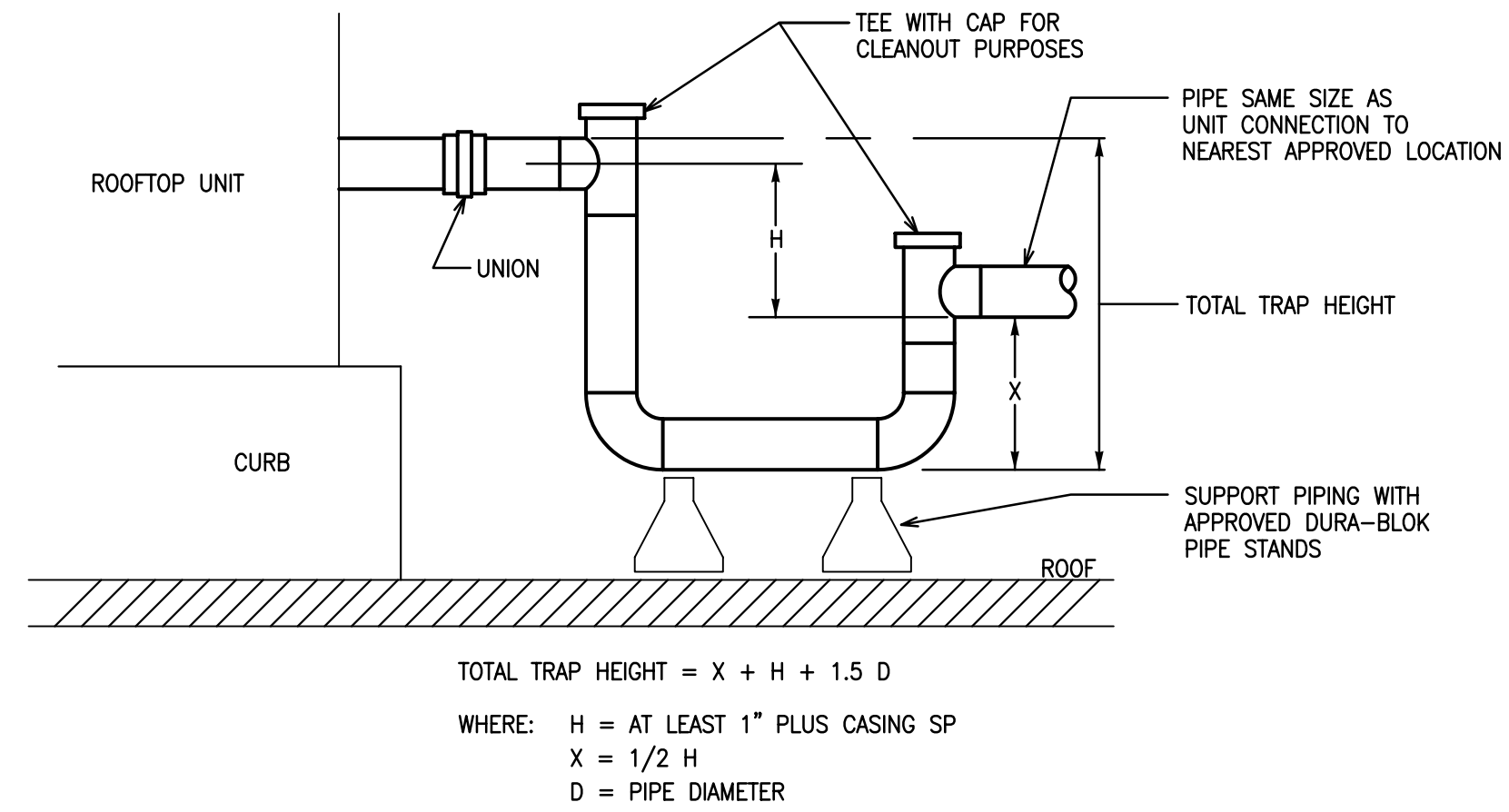
NOT TO SCALE

SPIRAL SEAM DUCT STEEL MIN. GALV. SHT. GAUGE	DUCT STEEL MIN. GALV. SHT. GAUGE	FITTINGS STEEL MIN. GALV. SHT. GAUGE
THROUGH 12	26 (0.022 IN.)	26 (0.022 IN.)
13 THROUGH 18	26 (0.022 IN.)	24 (0.028 IN.)
19 THROUGH 28	24 (0.028 IN.)	22 (0.034 IN.)
29 THROUGH 36	22 (0.034 IN.)	20 (0.040 IN.)
37 THROUGH 52	20 (0.040 IN.)	18 (0.052 IN.)

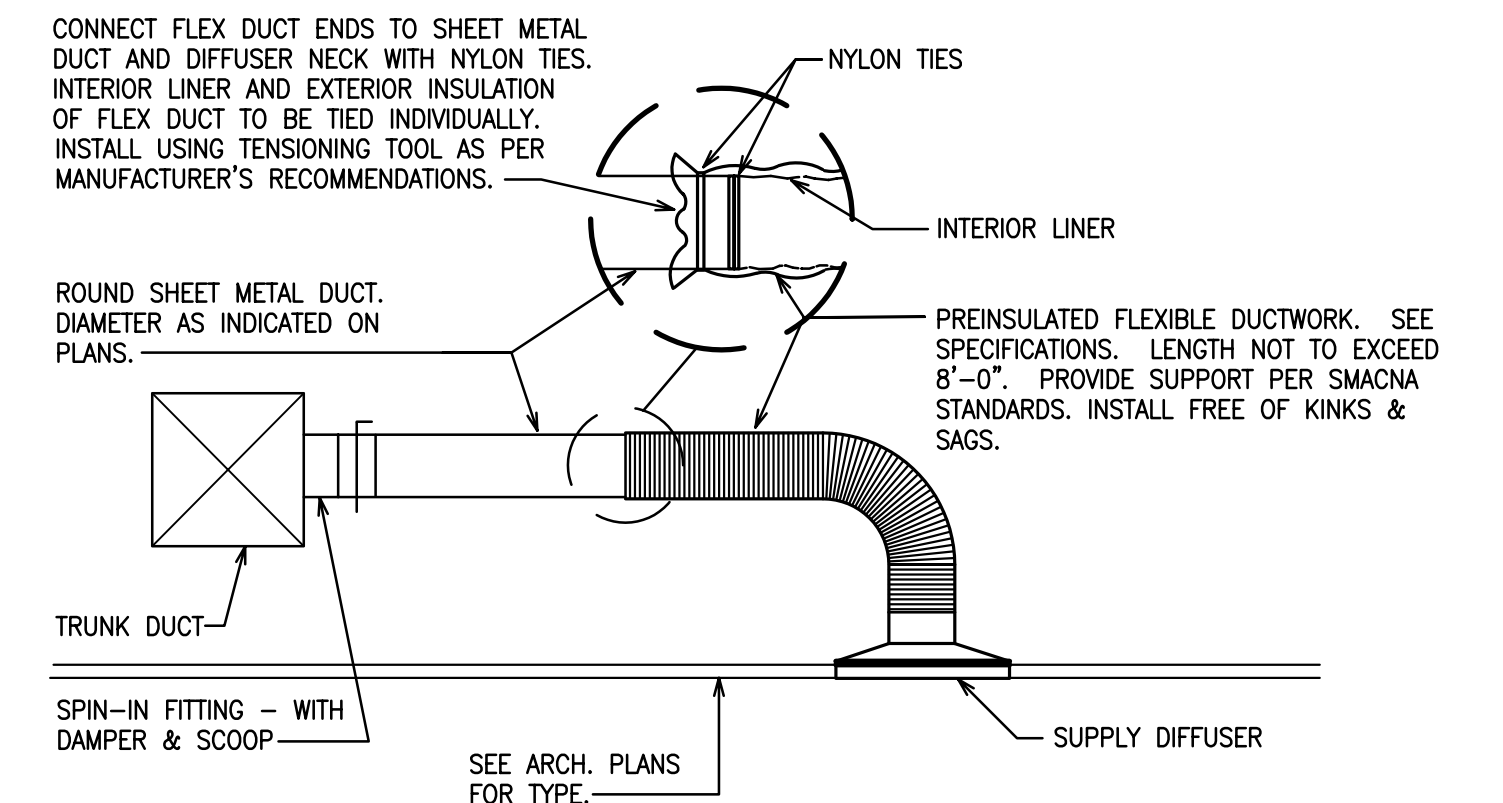
**DUCT SUPPORT DETAIL**  
SCHEMATIC - NO SCALE



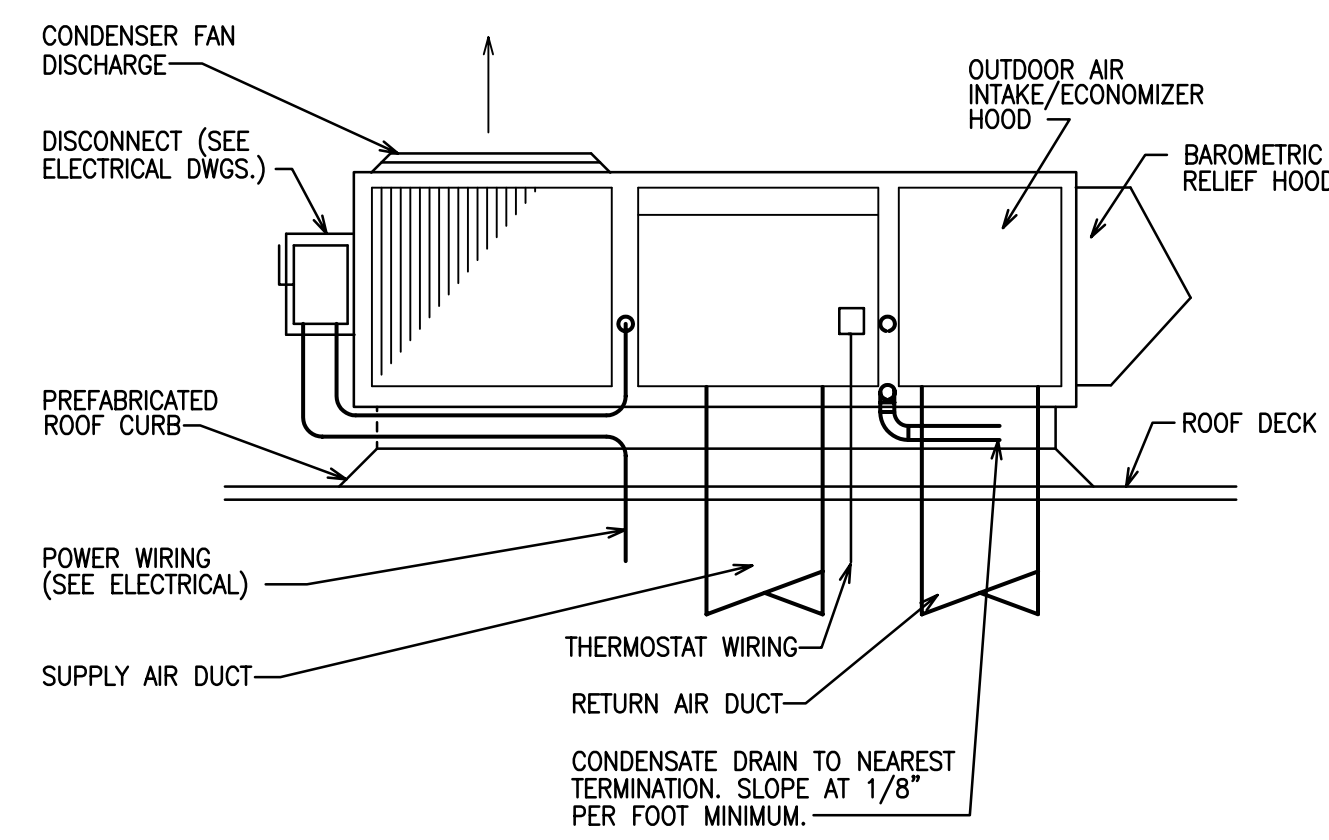
**ROOF CURB FRAMING - MECHANICAL EQUIPMENT**  
SCHEMATIC - NO SCALE



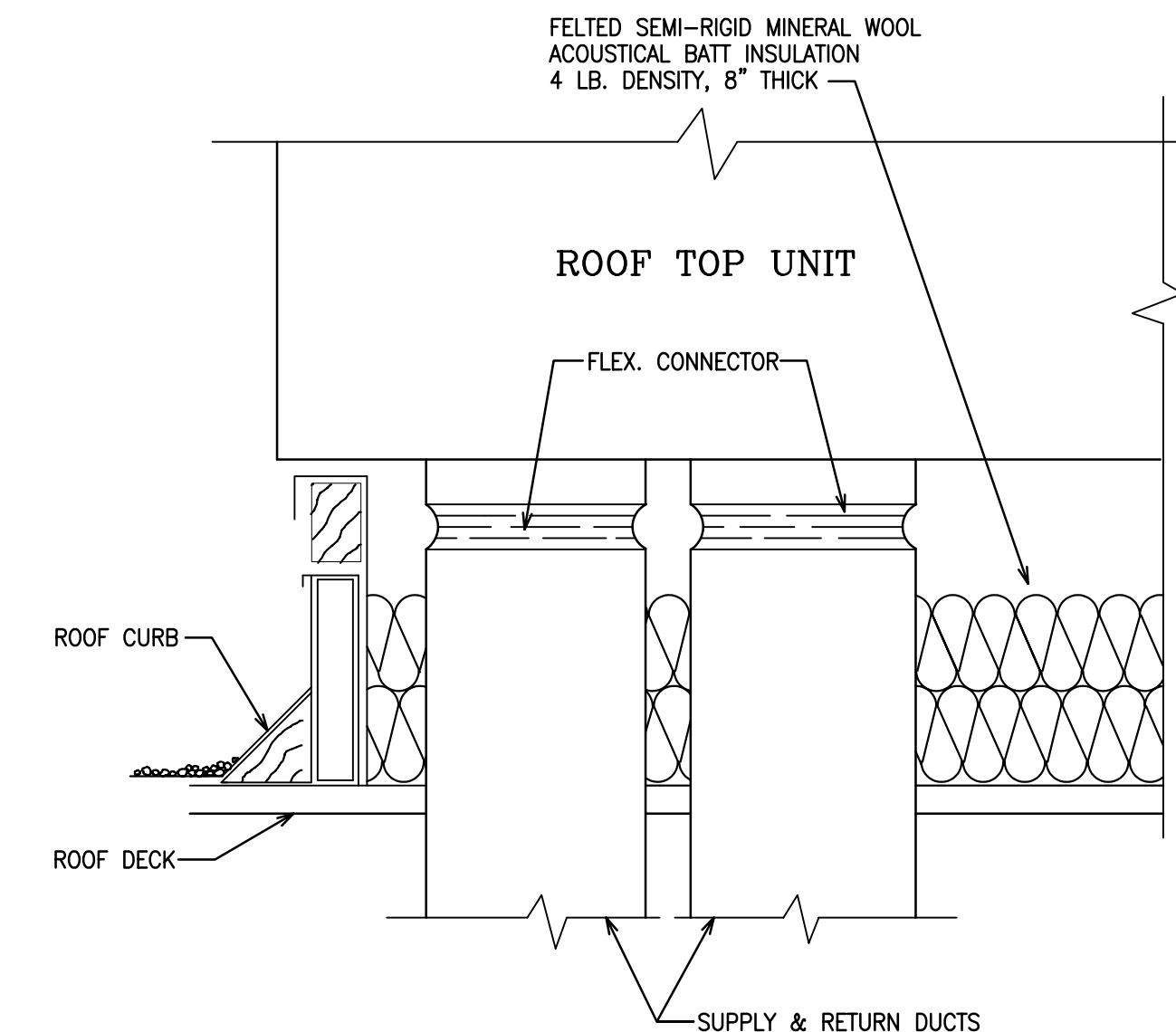
**CONDENSATE DRAIN TRAP**  
SCHEMATIC - NO SCALE



**FLEXIBLE DUCT TAKE-OFF DETAIL**  
SCHEMATIC - NO SCALE



**ROOF TOP AIR CONDITIONER DETAIL**  
SCHEMATIC - NO SCALE



**ROOF TOP MOUNTING DETAIL**  
SCHEMATIC - NO SCALE

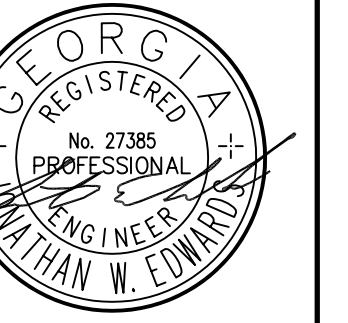
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ISSUES / REVISIONS:

DATE	DESCRIPTION
12-21-21	FOR REVIEW / COORDINATION
03-12-24	FOR PERMIT / CONSTRUCTION

DRAWN BY: JWE  
CHKD BY: JWE

**WHATABURGER**  
3550 SANDY PLAINS ROAD N.E.  
MARIETTA, GA 30066



SHEET TITLE:

DETAILS  
HVAC

PROJECT NO: 23069

M2.1

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**TOP VIEW**

**FRONT VIEW**

**RIGHT VIEW**

**ISOMETRIC BACK VIEW**

**APPROVALS / CERTIFICATIONS**

THIS HOOD COMPLIES WITH THE FOLLOWING:

**UL710 / ULC-664**  
STANDARD FOR EXHAUST HOOD AND RELATED CONTROLS FOR COMMERCIAL AND INSTITUTIONAL COOKING EQUIPMENT

**NFPA96**  
NATIONAL FIRE PROTECTION ASSOCIATION - STD 96

**NSF2**  
NATIONAL SANITATION FOUNDATION NO. 2 "FOOD SERVICE EQUIPMENT"

**NOTE:** THE EXHAUST AIR FLOW RATES WERE ESTABLISHED UNDER CONTROLLED LABORATORY CONDITIONS. GREATER EXHAUST RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATIONS.

**FILTERS/GREASE REMOVAL**

THIS HOOD UTILIZES A COMBINATION OF FLAMEGUARD SS TYPE-S 12X16 AND/OR 12X20 ARE KASON TRAPPER S/S FILTERS 7001 SERIES 12X16 & 12X20 MUST BE UL LISTED STAINLESS STEEL GREASE FILTERS

THEY MUST BE INSTALLED AT ALL TIMES DURING VENTILATION HOOD OPERATION

THIS UNIT REQUIRES: FILTERS (8)  
FLAMEGUARD FILTER, S/S BAFFLE TYPE VI  
(8) 12X20  
(NOTE) HOOD INCLUDES TEMPERATURE INTERLOCK SYSTEM

**GRILL HOOD U.L. #MH16346**  
(STANDARD USED U.L. 710)

DATE: 8/11/2022	MATERIAL:	REV: B	REVISION: 20230019 FR	DATE: 1/30/2023	CUSTOMER:
DRAWN: G.Veddo	WIDTH: N/A	UNLESS OTHERWISE SPECIFIED: TOLERANCES:		UNITS: mm [in]	
WEIGHT: N/A	GRAIN LENGTH: N/A	X.XX (XX") ±1.00 mm ±0.039"			
COMMENTS:		THIRD ANGLE PROJECTION			
<p>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF MRP DESIGN GROUP, INC. AND SHALL NOT BE REPRODUCED OR COPIED OR TRANSMITTED TO A THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF MRP.</p>		SIZE: A3	SHEET: 2 OF 3	TITLE: 87" DOUBLE SIDED CLAM SHELL GRILL HOOD	ITEM NO: WTB1603

ALL DOCUMENTATION RELATED TO THIS UNIT IS RELEASED ON A METRIC SYSTEM

DOBLE LADO GRILL HOOD  
SOMPLIDU CON (1) TANQUE DE 3.0 GAL

DOBLE LADO GRILL HOOD  
INCLUIDO CON (1) TANQUE DE 3.0 GAL

ITEM NO.	QTY REQD.	PART NUMBER	REV	DESCRIPTION	MATERIAL
1	1	WTB1603.5100	-	LIQUID LINE ASSEMBLY	
2	1	WTB1603.5200	-	DETECTION LINE ASSEMBLY	

**ISOMETRIC VIEW**

Labels: 1W NOZZLE DUCT, DETECTION LINE LINEA DE DETECCION, LIQUID LINE LINEA DE LIQUIDO, #2120 NOZZLE & #418569 SWIVEL ADAPTOR, #1IN NOZZLE PLENUM, #2120 NOZZLE & #418569 SWIVEL ADAPTOR

DATE: 8/9/2022	MATERIAL:	REV: -	REVISION:	DATE:	CUSTOMER:
DRAWN: G.Veddo	WIDTH: N/A	UNLESS OTHERWISE SPECIFIED: TOLERANCES:		UNITS: mm [in]	
WEIGHT: 5.25 kg	GRAIN LENGTH: N/A	X.XX (XX") ±1.00 mm ±0.039"			
COMMENTS:		THIRD ANGLE PROJECTION			
<p>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF MRP DESIGN GROUP, INC. AND SHALL NOT BE REPRODUCED OR COPIED OR TRANSMITTED TO A THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF MRP.</p>		SIZE: A3	SHEET: 1 OF 1	TITLE: ANSUL ASSY	ITEM NO: WTB1603.5000

WHATABURGER  
3550 SANDY PLAINS ROAD N.E.  
MARIETTA, GA 30066

ITEM NO.	QTY R.	PART NUMBER	RE	DESCRIPTION	MATERIAL
1	1	A-12-013	-	3 GAL. TANKS/BELL W/ADAPTOR #429852	Generic
2	6	A-12-022	-	FUSIBLE LINK, 365F DEG. #415739	Generic
3	2	A-12-045	-	PULLEY ELBOW #423251	Generic
4	1	A-12-129553	-	R102 MECH. RELEASE ASSY #429853	Generic
5	2	F-8-094	-	CONNECTOR, 1/2 STR. R/T #TC601	Generic
6	1	A-12-5068	-	SWITCH, DUAL, SHARP ACTION #423879 WITH LEADS	Generic
7	1	A-12-580	-	WIRE ROPE (30" STAINLESS-STEEL)	Generic

**ISOMETRIC VIEW**

Labels: 1, 2, 3, 4, 5, 6, 7

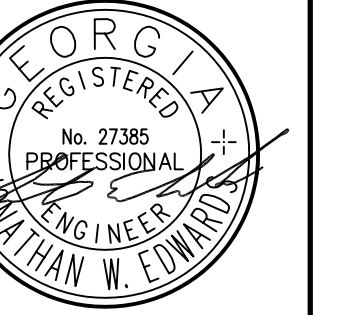
DATE: 6/3/2013	MATERIAL:	SYM:	REVISION:	DATE:	CUSTOMER:
DRAWN: D.BOOTE	WIDTH: N/A	UNLESS OTHERWISE SPECIFIED: TOLERANCES:		UNITS: mm [in]	
WEIGHT:	GRAIN LENGTH: N/A	X.XX (XX") ±1.00 mm ±0.039"			
COMMENTS:		THIRD ANGLE PROJECTION			
<p>THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF MRP DESIGN GROUP, INC. AND SHALL NOT BE REPRODUCED OR COPIED OR TRANSMITTED TO A THIRD PARTY WITHOUT THE WRITTEN PERMISSION OF MRP.</p>		SIZE: B	SHEET: 1 OF 1	TITLE: REMOTE ANSUL SYSTEM	ITEM NO: A-WTB1263

ARCHITECT OF RECORD:

THOMAS E. MORGAN, JR.  
ARCHITECT

423 FISCHER TRAIL  
ELLIJAY, GEORGIA 30540

SEAL:



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RELEASED FOR  
CONSTRUCTION

ISSUES / REVISIONS:	DATE	DESCRIPTION
12-21-21	FOR REVIEW COORDINATION	
03-22-21	FOR PERMIT / CONSTRUCTION	

DRAWN BY: THK  
CHKD BY: JWE

WHATABURGER  
3550 SANDY PLAINS ROAD N.E.  
MARIETTA, GA 30066



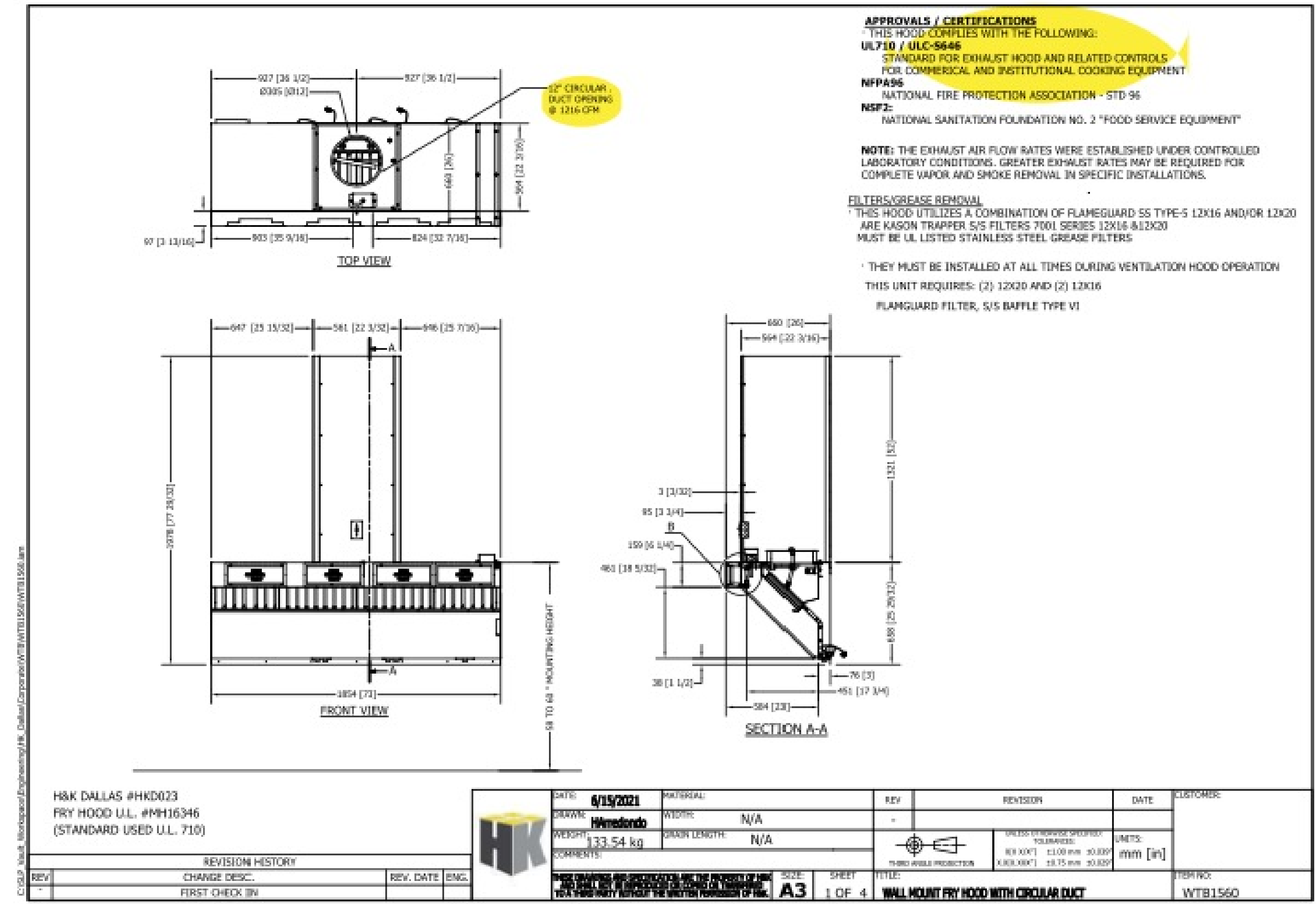
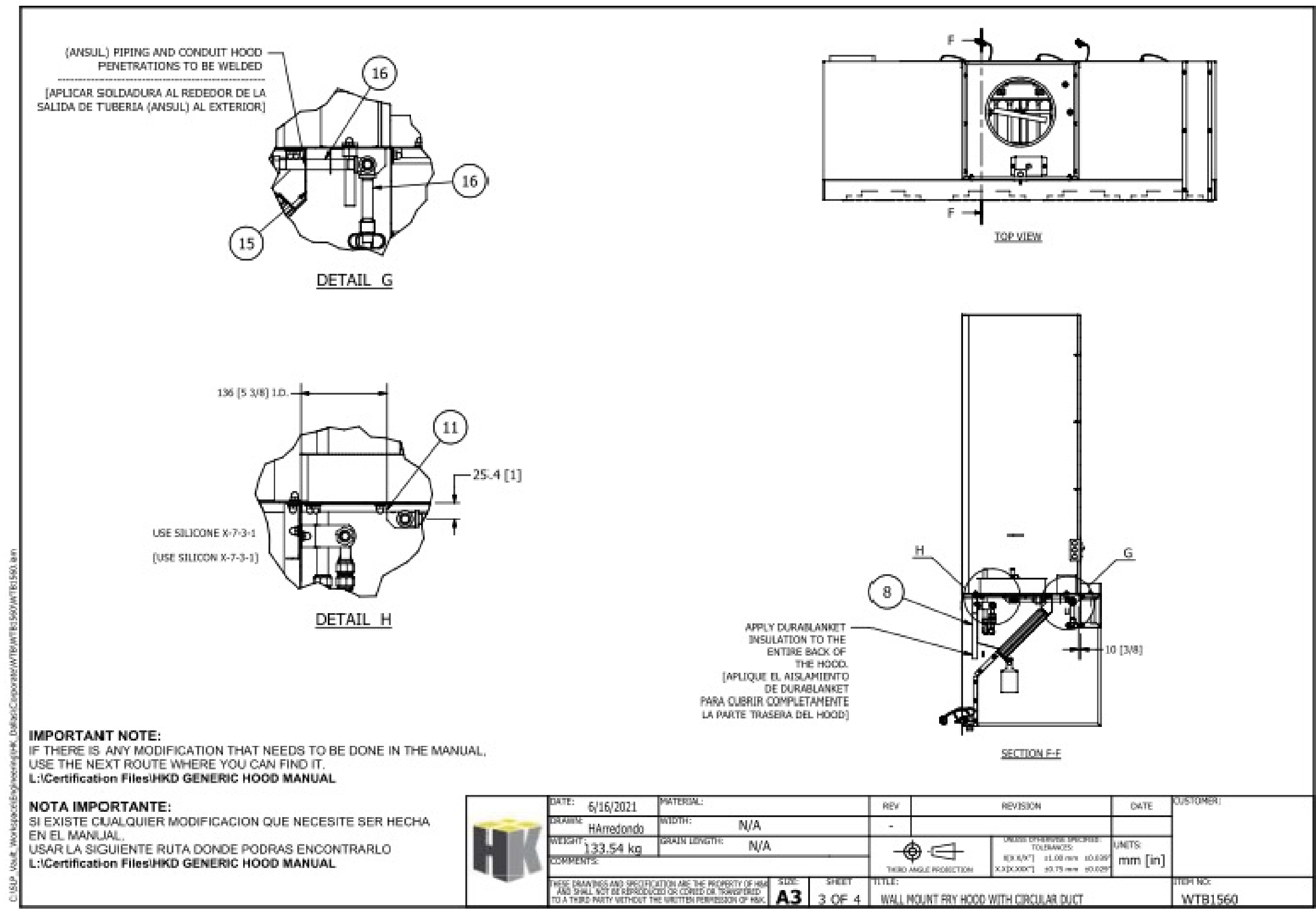
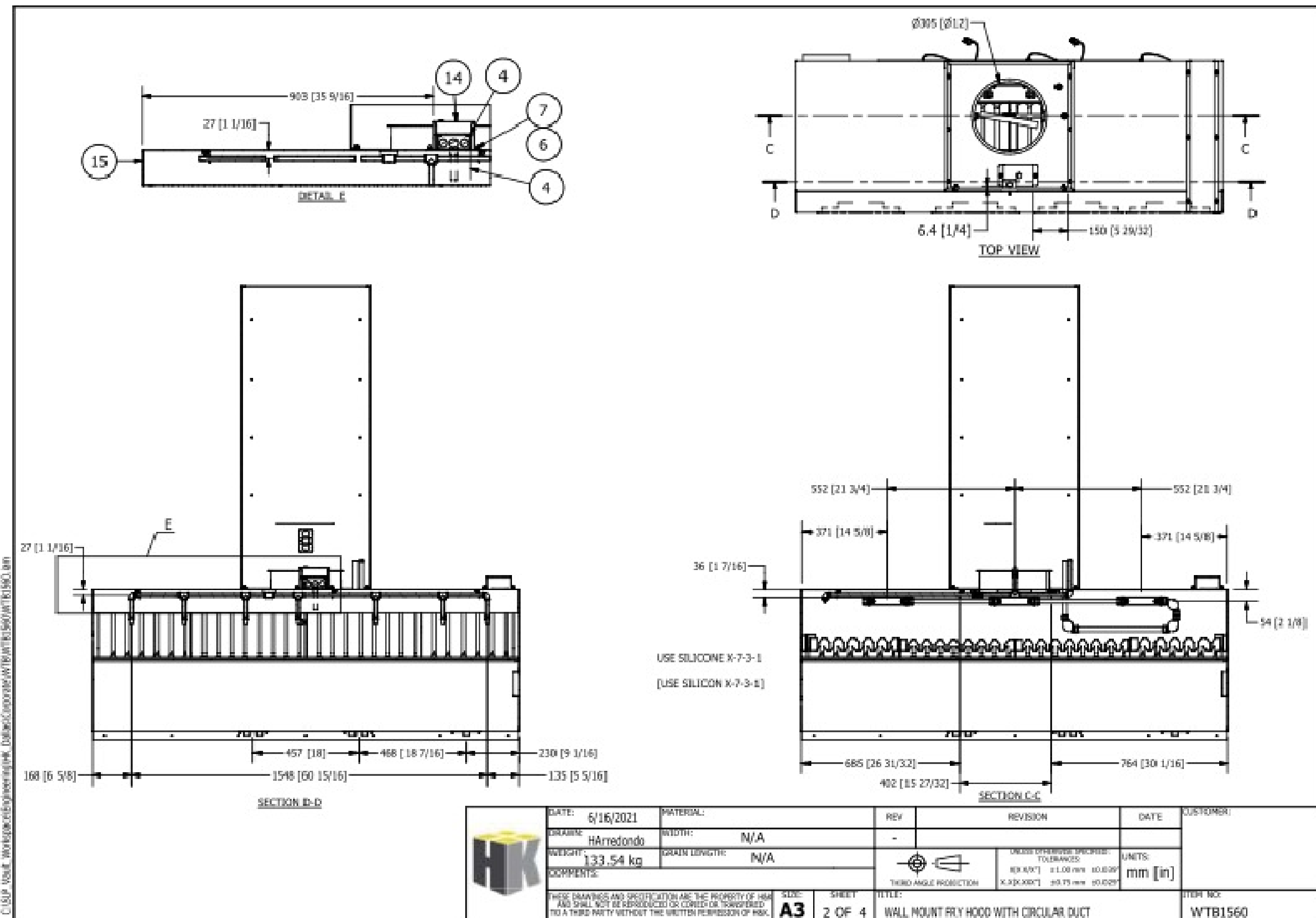
SHEET TITLE:

HOOD DRAWINGS

PROJECT NO: 23069

M3.1

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ISSUES / REVISIONS:	DATE	DESCRIPTION
12-12-21	FOR REVIEW COORDINATION	
03-12-21	FOR PERMIT / CONSTRUCTION	

DRAWN BY: H&K  
CHKD BY: JWE

**WHATABURGER**  
3550 SANDY PLAINS ROAD N.E.  
MARIETTA, GA 30066



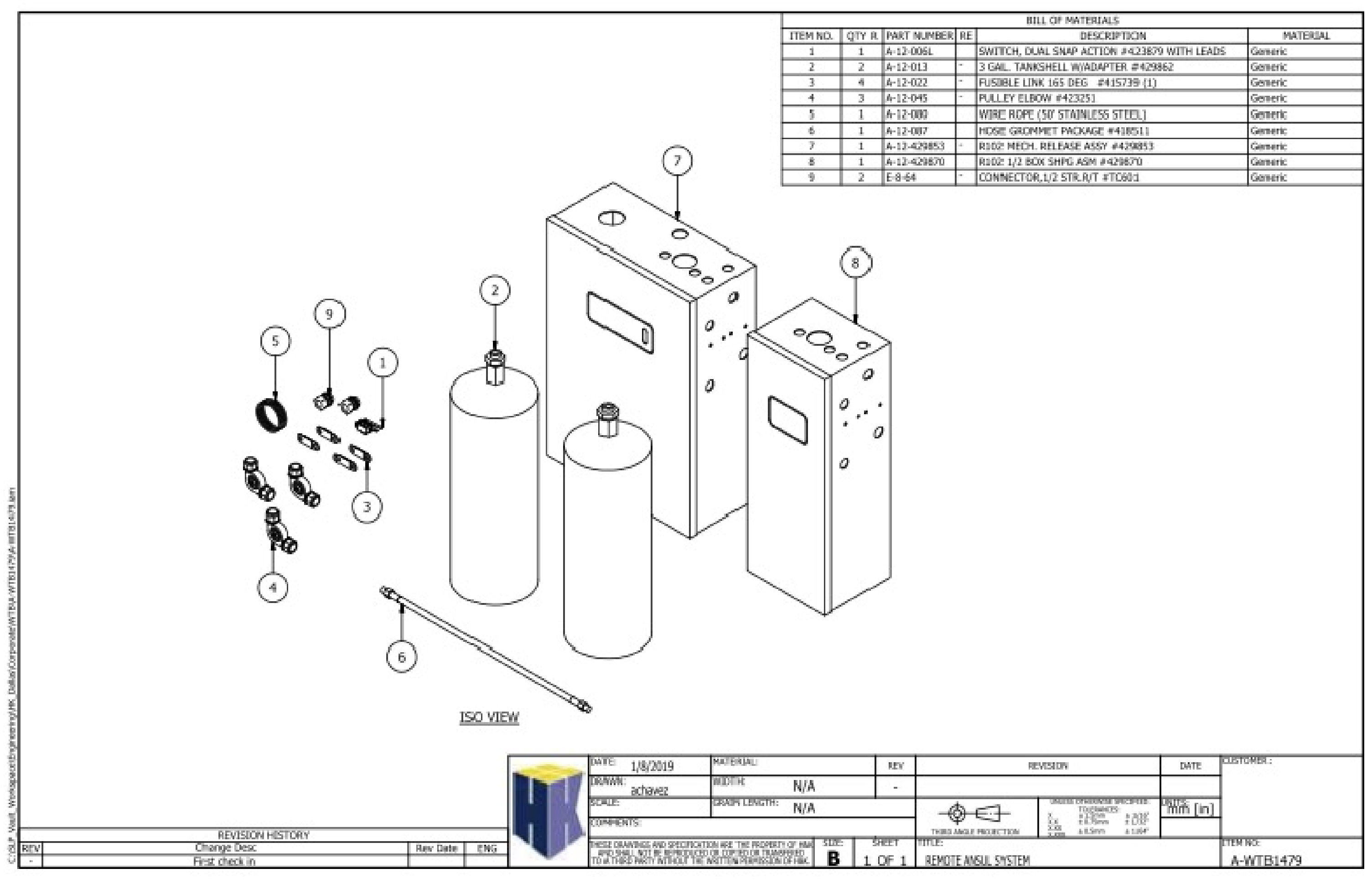
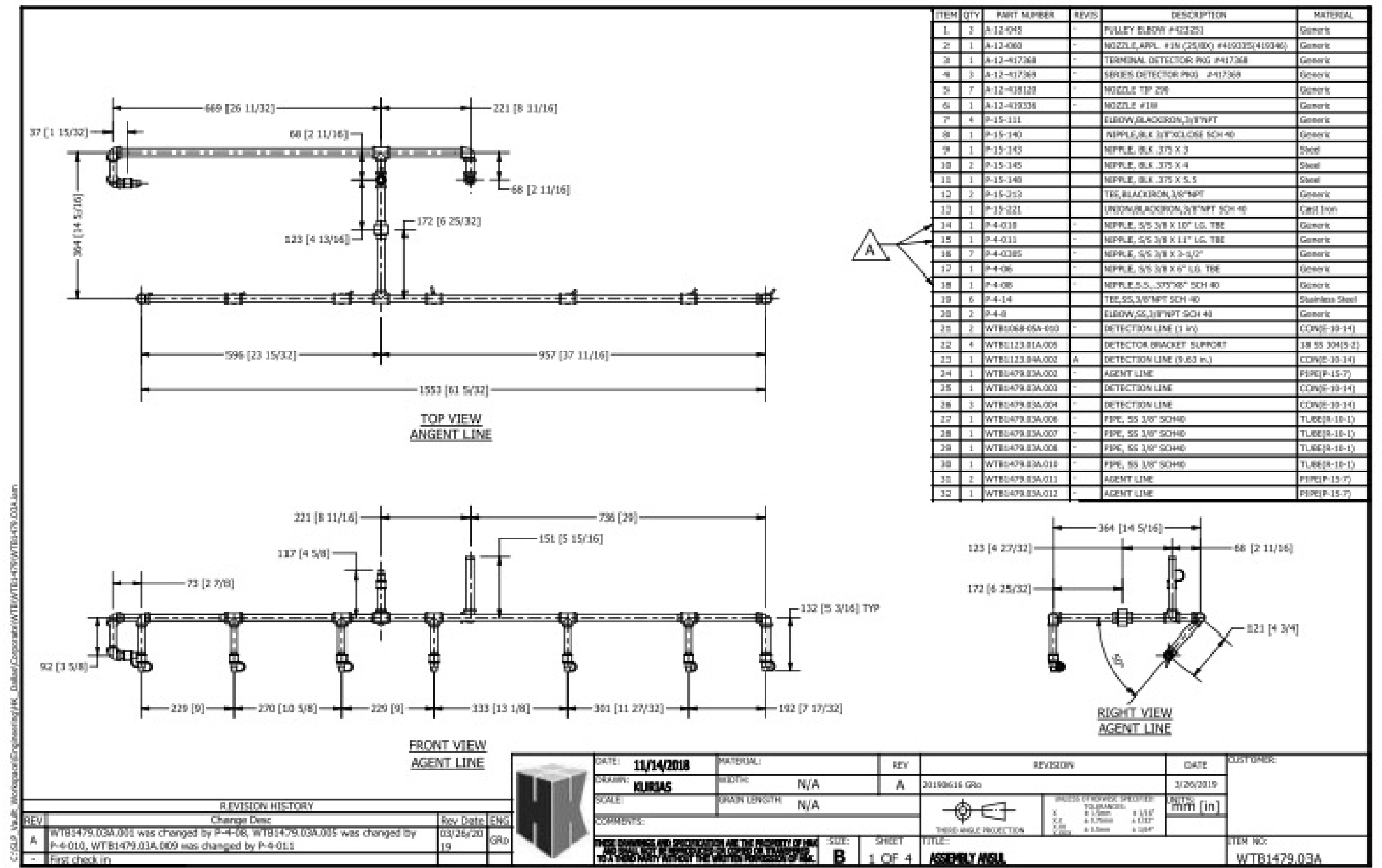
SHEET TITLE:

HOOD DRAWINGS

PROJECT NO: 23069

M3.2

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SEAL:  
  
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RELEASED FOR CONSTRUCTION

ISSUES / REVISIONS:

DATE	DESCRIPTION
12-12-13	FOR REVIEW / COORDINATION
03-12-14	FOR PERMIT / CONSTRUCTION

DRAWN BY: HJK  
 CHKD BY: JWE

WHATABURGER  
 3550 SANDY PLAINS ROAD N.E.  
 MARIETTA, GA 30066



SHEET TITLE:  
 HOOD DRAWINGS  
 PROJECT NO: 23069  
 M3.3