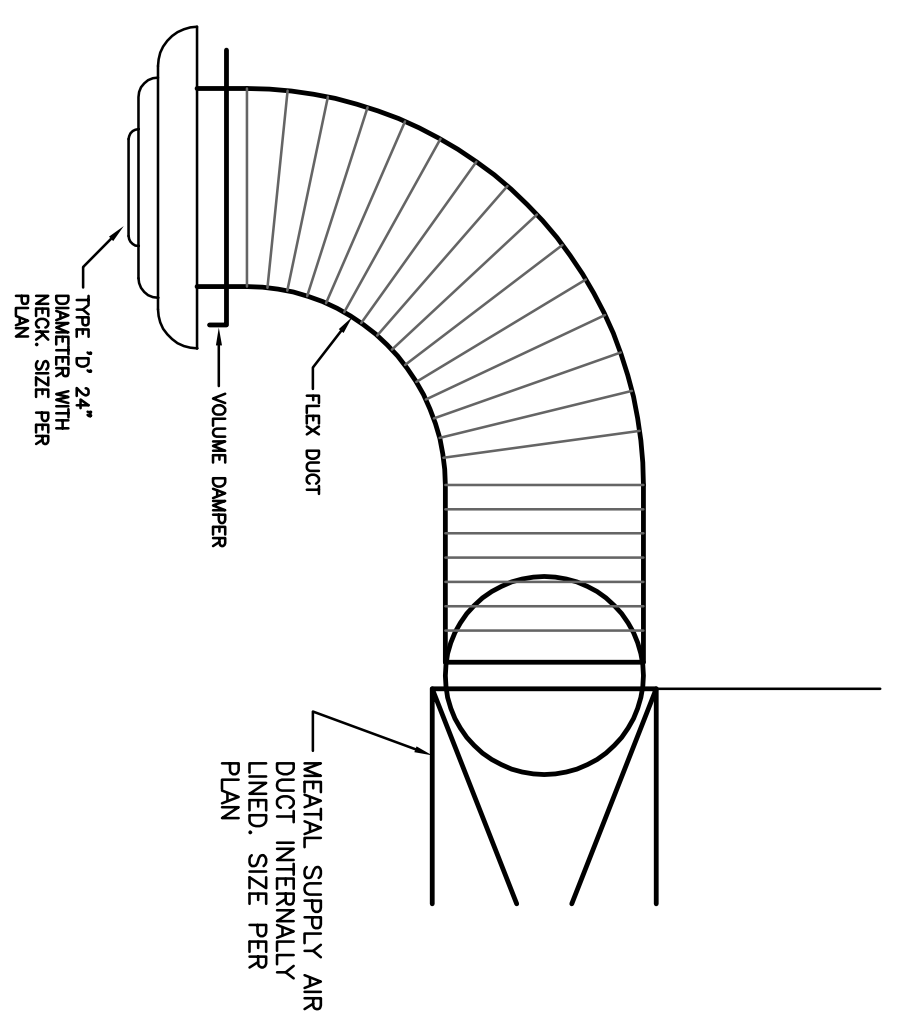


ALL CONSTRUCTION APPLICATION & INSTALLATION TO FOLLOW THE CODES LISTED BELOW:

- 2000 UNIFORM MECHANICAL CODE
- 2003 INTERNATIONAL BUILDING CODE
- 2000 UNIFORM PLUMBING CODE
- 2008 NATIONAL ELECTRICAL CODE
- 2000 INTERNATIONAL FUEL GAS-CODE
- 2008 HOECC Houston ENERGY CODE



4 ROUND DIFFUSER CONNECTION

HOOD - EXHAUST FAN NO.	HOOD #1 CLASS I	RATED VOLUME
EF-1	HOOD #2 CLASS II	6000 CFM
EF-2	TOILET FAN	525 CFM
TEF-1	TOILET FAN	100 CFM
TEF-2	TOILET FAN	150 CFM
TEF-3	TOILET FAN	150 CFM
TOTAL EXHAUST		6925 CFM
HOOD - SUPPLY FAN NO.		
SF-1 (80% OF EF-1) (WITH MOTORIZED DAMPER)		4790 CFM
TOTAL SUPPLY		4790 CFM
NET MAKE-UP TEMPERED AIR		2135 CFM
TOTAL OUTSIDE AIR REQUIRED FOR RESTAURANT OCCUPANCY:		
KITCHENS S.F.	1113 S.F. =	334 CFM
DINING RM S.F.	0.50 CFM X 3051 S.F. =	1526 CFM
RESTROOM S.F.	50 CFM PER TOILET OR URINAL	300 CFM
WALK-IN COOLER/REEZER ARE EXEMPT		
TOTAL OUTSIDE CFM REQUIRED FOR REST.		2160 CFM
AHU-1	10 TON	700 CFM
AHU-2	12.5 TON	800 CFM
AHU-3	7.5 TON	500 CFM
AHU-4	7.5 TON	500 CFM
TOTAL OUTSIDE AIR POSITIVE AIR - 340 THROUGH RUS		2500 CFM

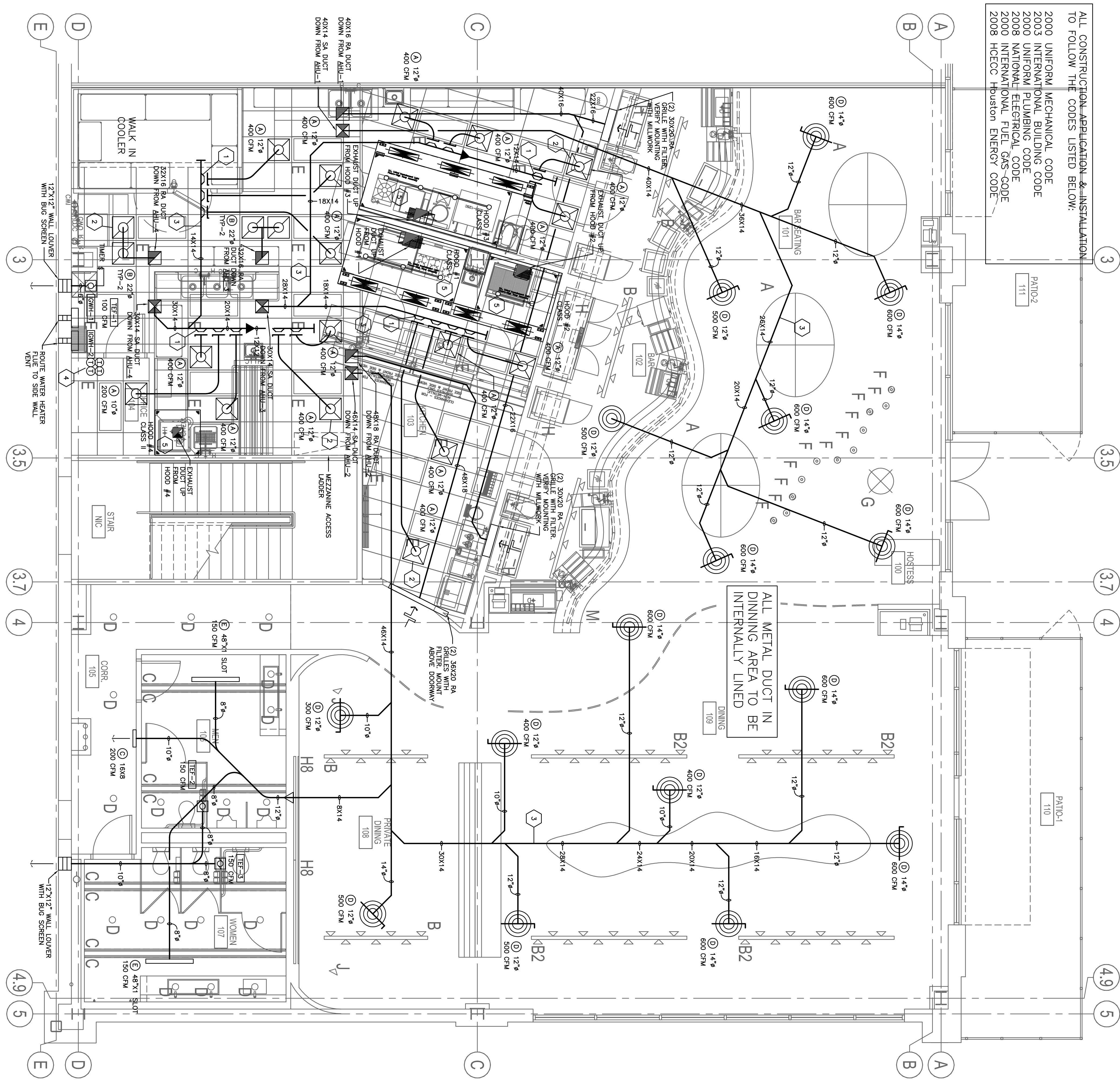
NOTE:
PRIOR TO THE OWNER OCCUPANCY THE AIR SYSTEM BALANCING AND HYDRAULIC SYSTEM BALANCING SHALL BE PERFORMED.

3 VENTILATION CALCULATION

- 1 TAP VOLUME AIR DAMPER, TYPICAL FOR SUPPLY AIR. REFER TO DETAIL.
- 2 AIR GRILL MOUNTED IN LAV-IN CEILING, COORDINATE LOCATION WITH LIGHTING AND ARCHITECTURAL REFLECTED CEILING PLAN.
- 3 SUSPEND SUPPLY TRUNK FROM STRUCTURE. REFER TO DETAILS.
- 4 PROVIDE AND INSTALL PROGRAMMABLE THERMOSTAT. REFER TO MECHANICAL SPECIFICATIONS. INSTALL REMOTE SENSOR IN REAR AIR PLenum.
- 5 KITCHEN HOOD EXHAUST DUCT AND SUPPLY DUCT UP TO FANS. REFER TO KITCHEN VENDOR DRAWINGS FOR DUCT SIZES AND FAN SIZES WITH HOOD TO BE PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT VENDOR/CONTRACTOR.

2 MECHANICAL KEYED NOTES

1 FLOOR PLAN - MECHANICAL



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

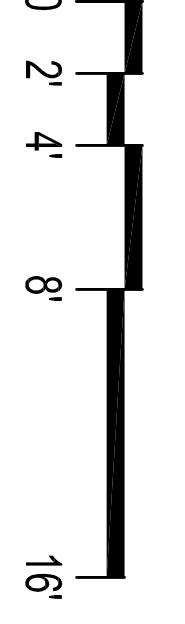
TOLA RESTAURANT
4601 Washington Ave
Houston, TX 77007

Gensler
711 Louisiana
Suite 300
Houston, Texas 77002
Tel: 713.844.0000
Fax: 713.844.0001

Issue	Date & Issue Description	By	Check
01	05/19/10 PERMIT/CONSTRUCTION		

PROJECT #10082
H.M. McLEOD, P.E.
4727 MERRIN ST. SUITE B
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FAX: (713) 961-2891
H. M. McLeod Registration #3879
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Description	Scale
MECHANICAL FLOOR PLAN	M-1.1



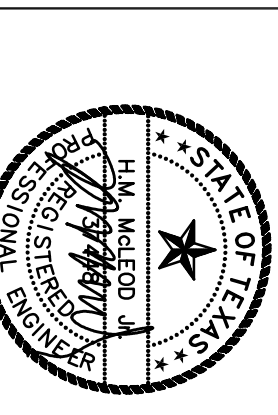
TOLA RESTAURANT
 4601 Washington Ave
 Houston, TX 77007

711 Louisiana
 Suite 300
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 Fax: 713.844.0001

Gensler

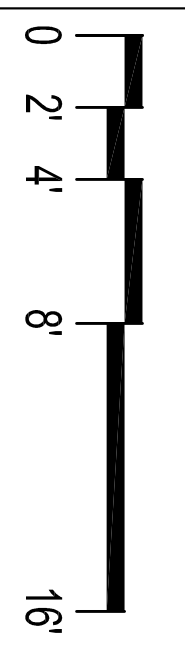
Issue	Date & Issue Description	By	Check
01	05/19/10 PERMIT/CONSTRUCTION		

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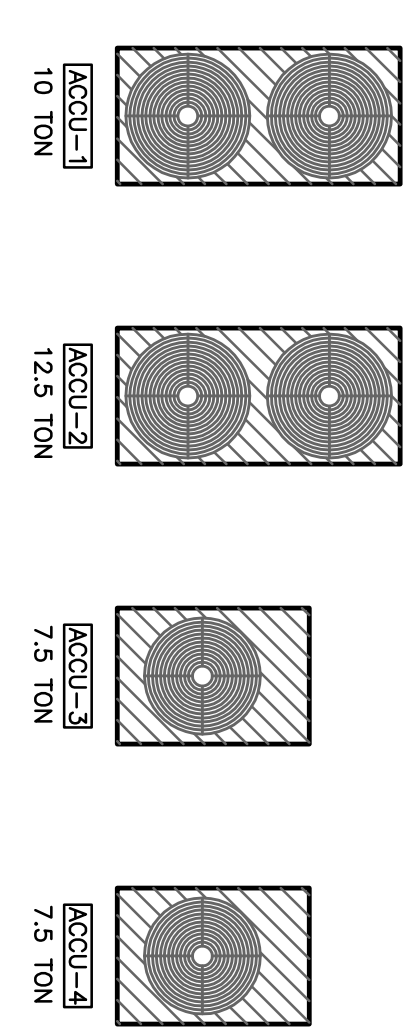


THIS SEAL WAS AUTHORIZED
 THIS DATE: 05/19/10
 Project Name: TOLA
 Project Number:
 CAD File Name:
 Description: MECHANICAL MEZZANINE PLAN

Description	Scale
MECHANICAL MEZZANINE PLAN	M-1.2

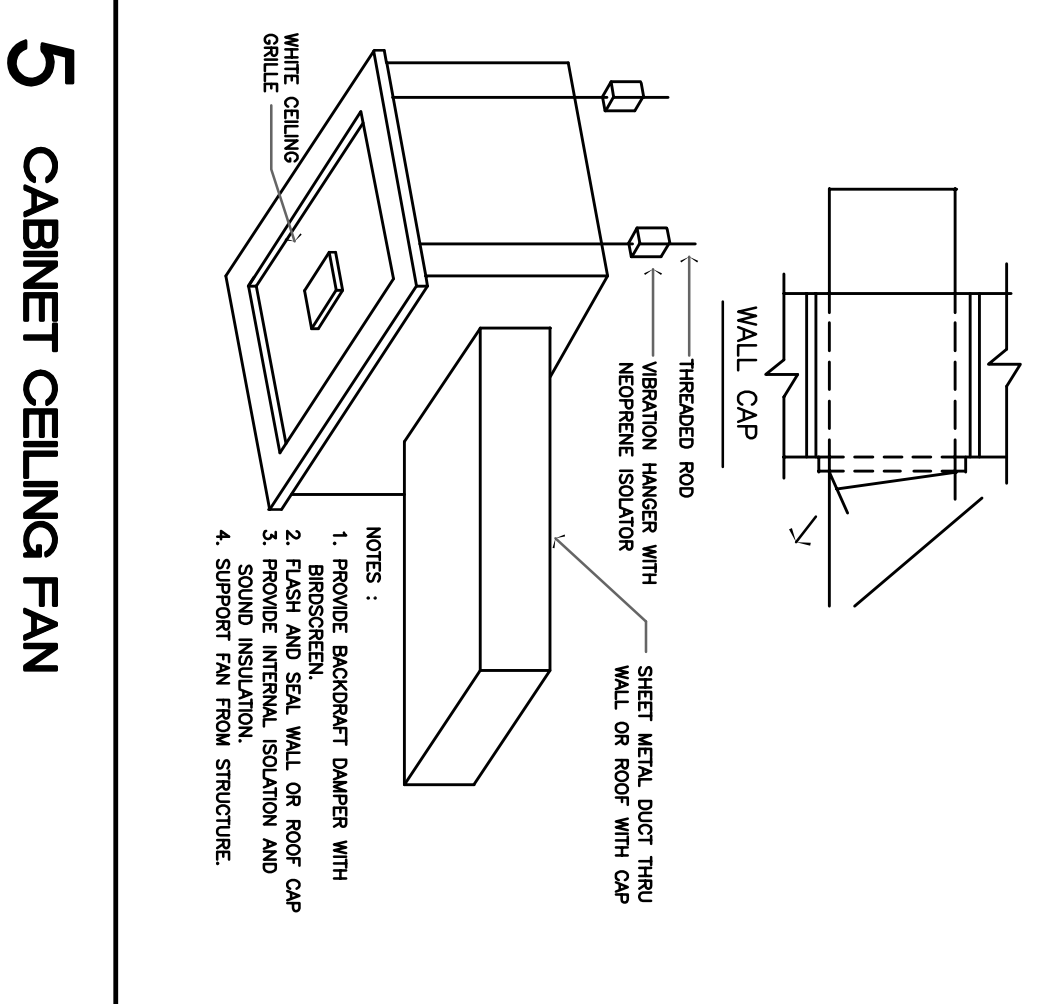
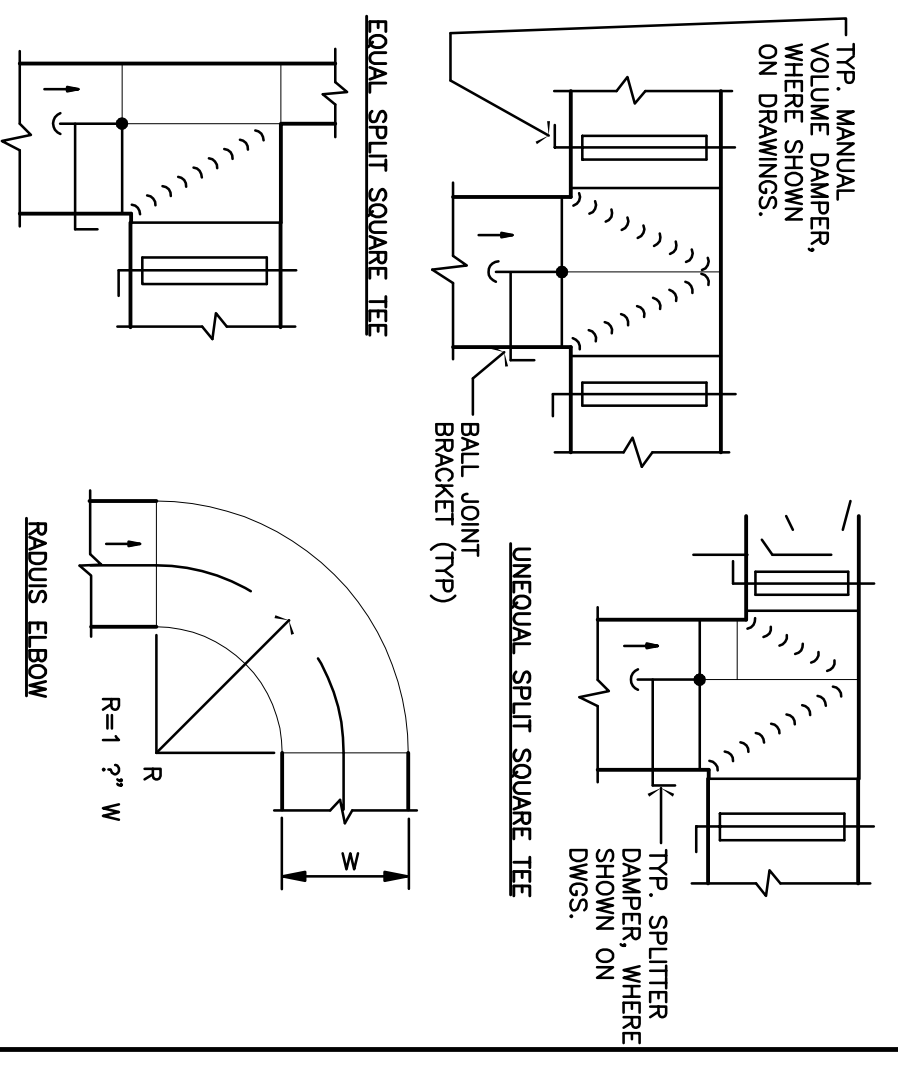


ON ROOF AT EXISTING STRUCTURAL AREA
 DESIGNED FOR ROOF EQUIPMENT



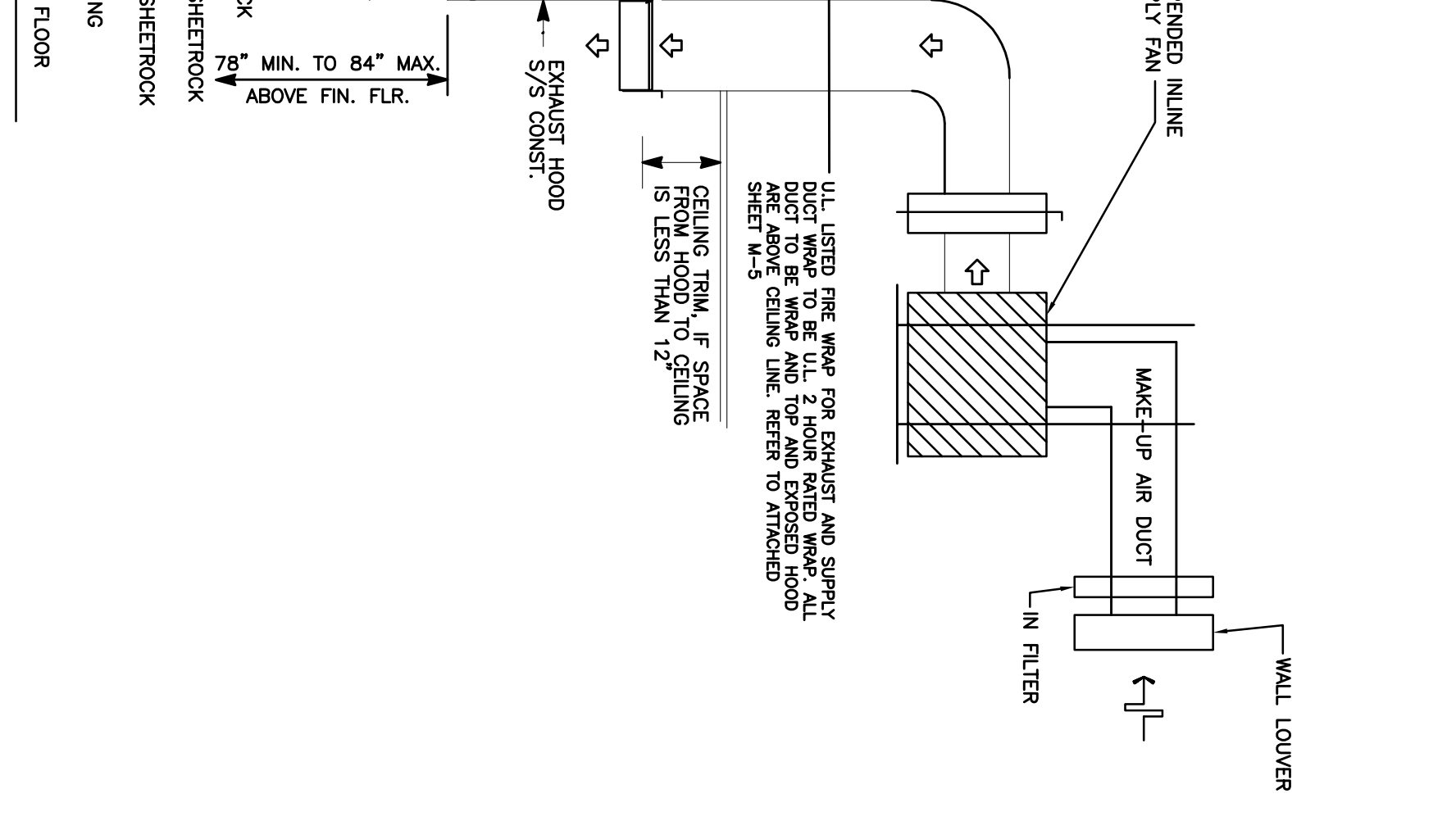
MECHANICAL KEYED NOTES

- 1 AHU HORIZONTAL AS PER DETAIL. PROVIDE PROPER CLEARANCES AS REQUIRED BY LOCAL CODE. DISCHARGE CONDENSATE DRAIN PIPE INTO FLOOR SINK. (N.C. CAN REPLACE AUX DRAIN LINE WITH FLOAT SWITCH.)
- 2 PROVIDE IONIZATION DETECTOR MOUNTED IN RETURN AIR PLenum. UPON DETECTION OF SMOKE UNIT SHALL BE SHUT DOWN.



2 TYPICAL DUCT FITTINGS DETAIL

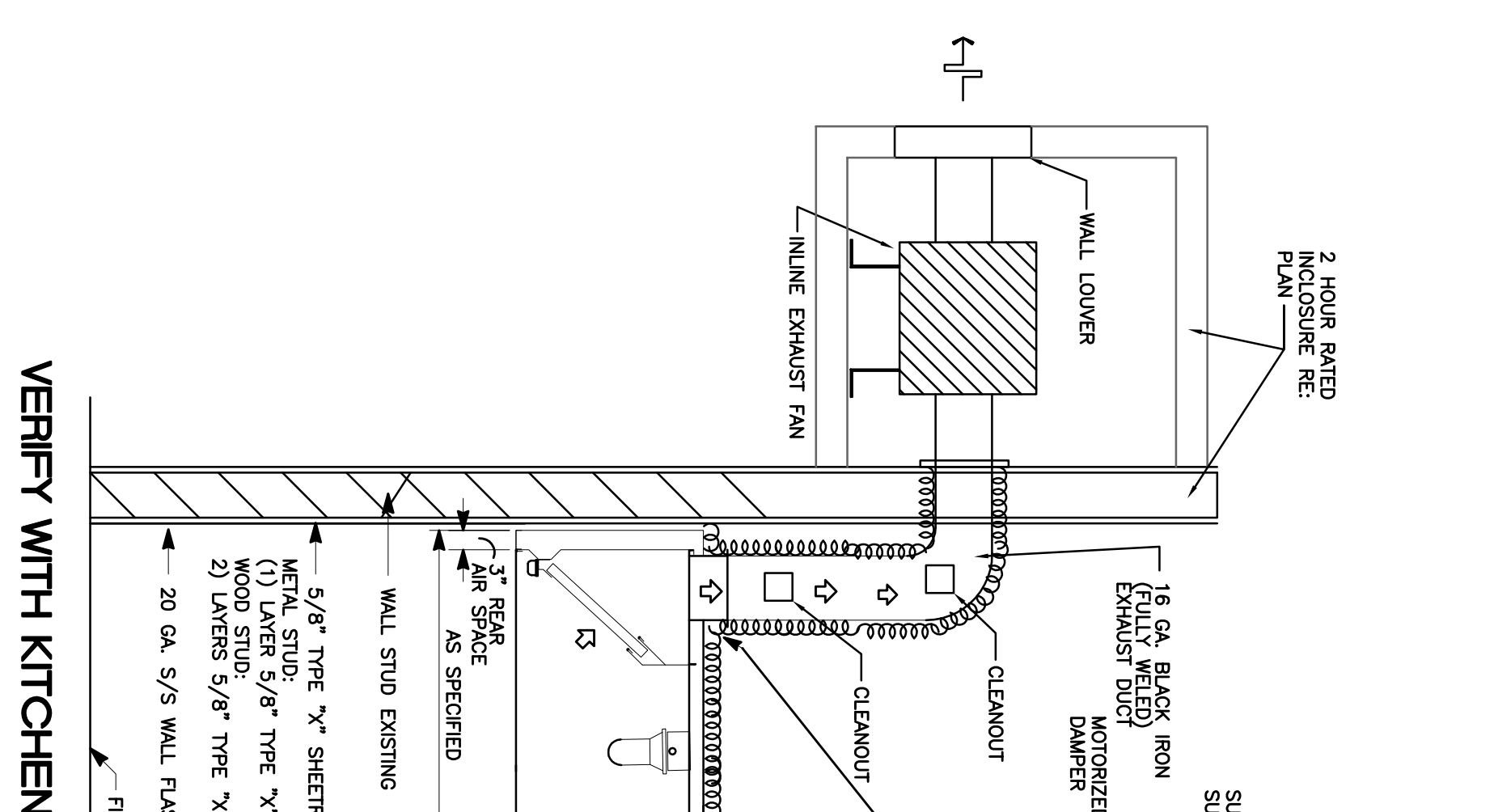
4 HVAC UNIT CONDENSATE DRAIN



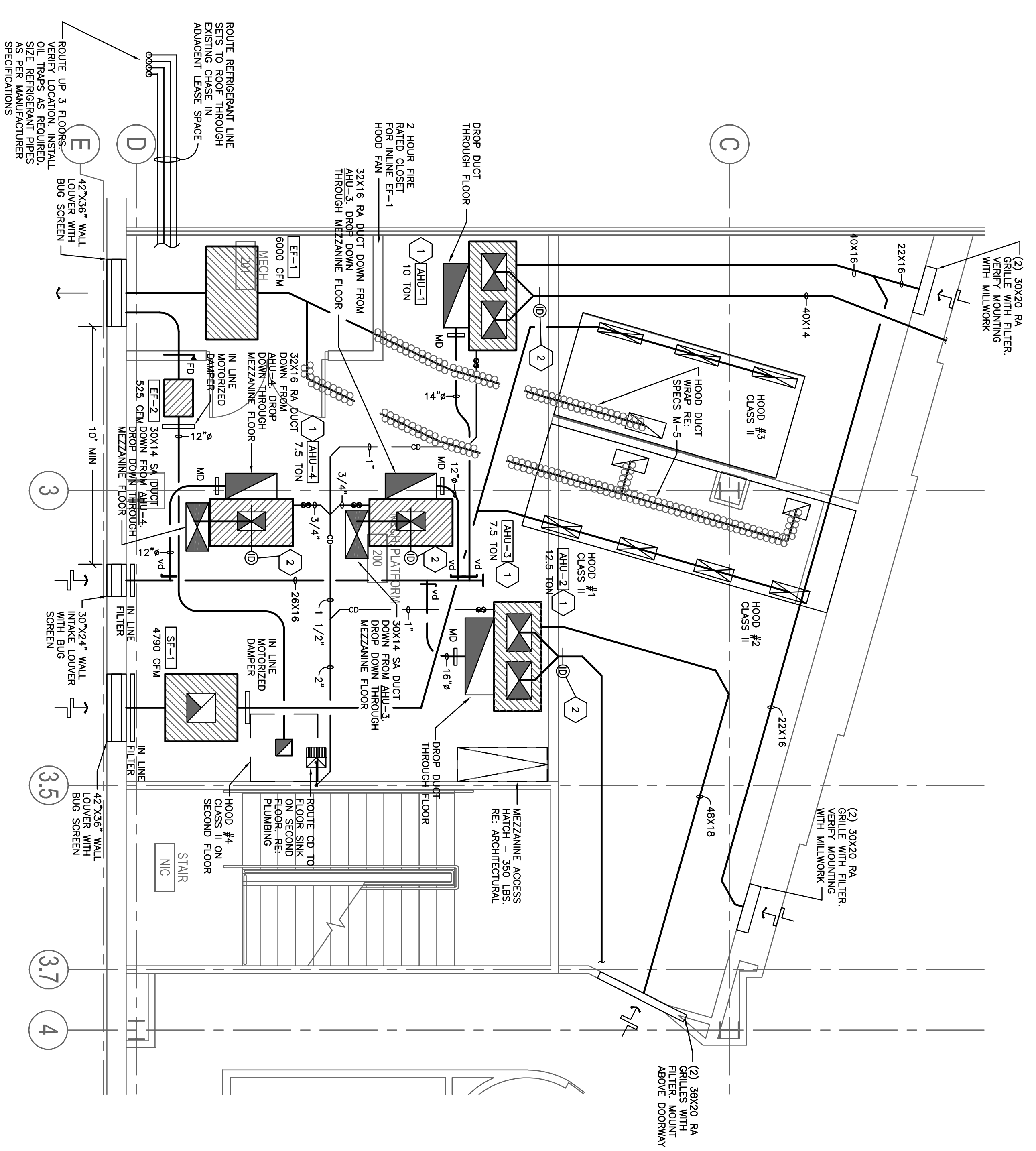
5 CABINET CEILING FAN

3 GREASE EXHAUST HOOD SECTION

VERIFY WITH KITCHEN HOOD VENDOR



1 MECHANICAL MEZZANINE PLAN



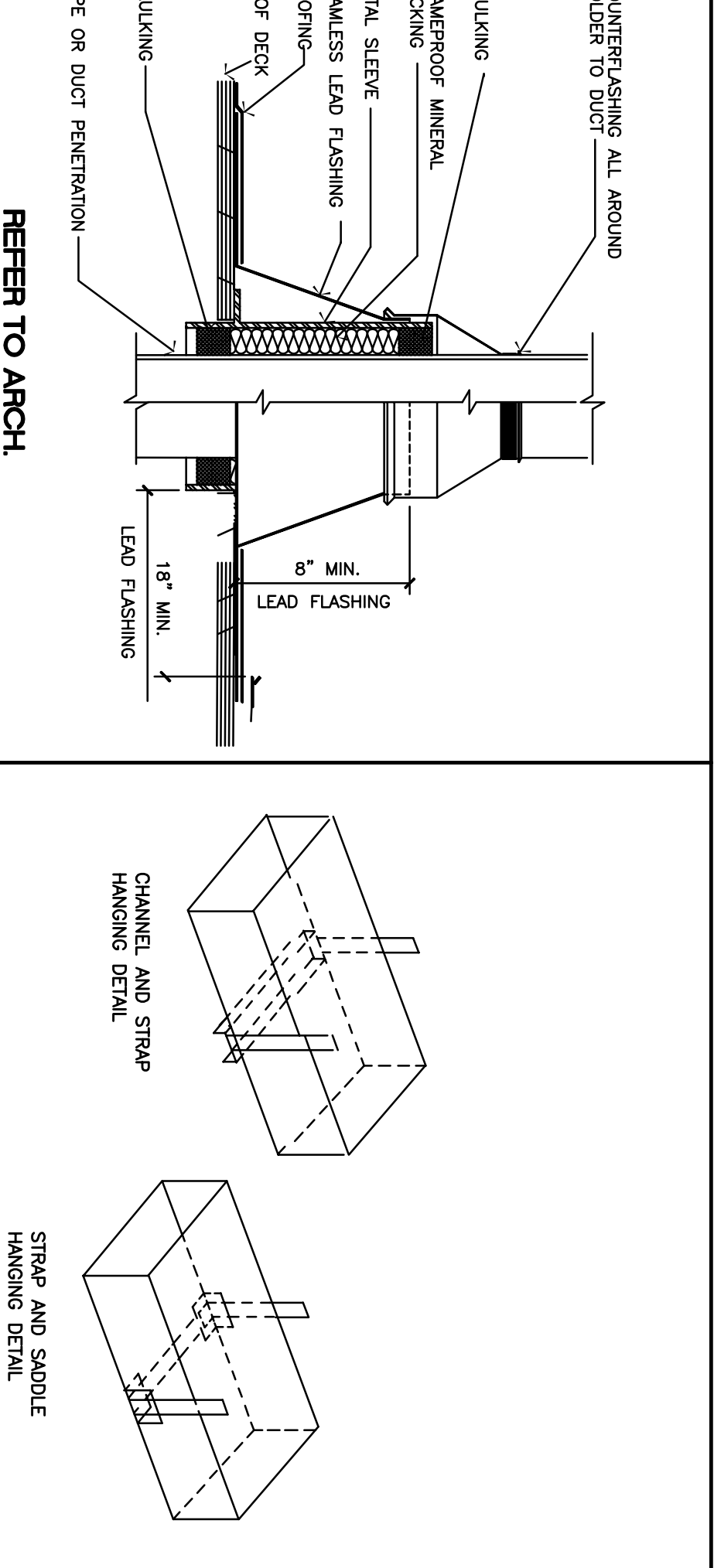
SCALE: 1/4" = 1'-0"

LENNOX INDUSTRIES INC. - EQUIPMENT SCHEDULE

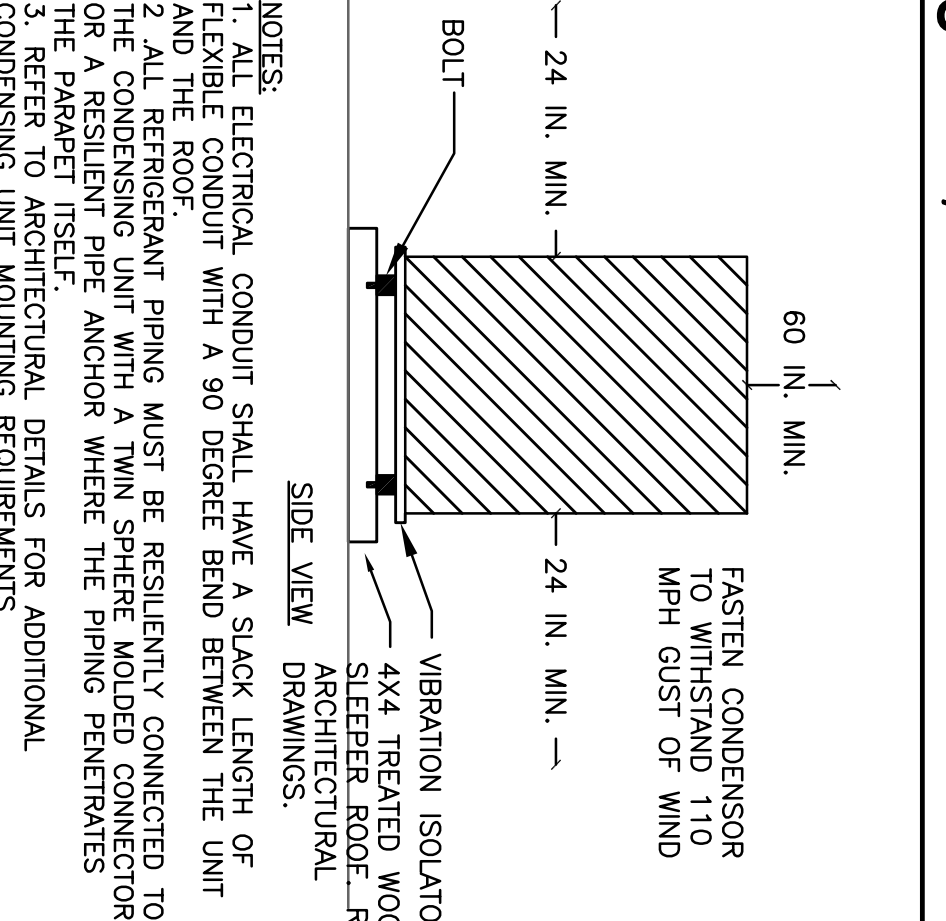
System#	Coil	Refrigerant	Cond	Cond./HP	Coil	Supply Airflow (cfm)	Extstat/Press (in.WC)	Totalstat/Press (in.WC)	Supply Fan	Req. d/wer	RPd	Req. d/wer	RPd	Req. d/wer	RPd	Req. d/wer	RPd	Req. d/wer	RPd
AHU-3.4	7.5	R-410A	Lennox	TS4090S45-460-3	TA090S40-SID-460	2400	0.80	0.93	2.00	1.46	665	96.0	96.0	67.0	96.0	84504	59922	55257	27.6
AHU-1	10.0	R-410A	Lennox	TS4120S45-460-3	TA120S40-SID-460	3200	0.80	0.92	2.00	1.43	799	96.0	96.0	67.0	96.0	114250	109698	79550	32.1
AHU-2	12.5	R-410A	Lennox	TS4150S40-460-3	TA150S40-SID-460	4000	0.80	0.98	3.00	2.20	954	96.0	96.0	67.0	96.0	135043	135043	89988	42.5

- Included System Options**
- ELECTRIC HEAT - FLD
 - LOW AMBIENT CONTROL - FLD
 - HALI SAKDOS - FLD
- Notes
Cooling performance based on specified design altitude.
Heating performance based on sea level.

9 MECHANICAL UNIT SCHEDULE

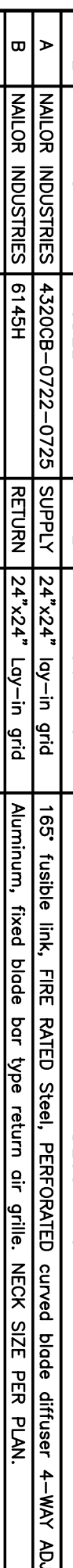


8 FLUE/PIPE PENETRATION THRU ROOF



7 ROOF MOUNTED CONDENSOR

5 DUCT SUSPENSION DETAILS



4 FLOOR MOUNTED AHU DETAIL



3 FREEZER/COOLER CALCULATIONS

COOLER/FREEZER NOTES:

- WALK-IN COOLERS AND/OR FREEZERS ARE COMPARTMENTS SHALL BE CERTIFIED FOR FLAME SPREAD, SMOKE DEVELOPMENT, TOXICITY AND SMOULDERING.
- WALK-IN COOLERS AND/OR FREEZERS AND COMPARTMENTS SHALL CARRY THE NSF MARK TO VERIFY THE UNIT IS CERTIFIED TO NSF STANDARD #1.

UNDERWRITERS LABORATORIES INC. CLASSIFIED BUILDING UNIT

354K SURFACE BURNING CHARACTERISTICS 4" PANEL MATERIAL Flame Spread 25 Over 400 Smoke Spread Over 350

WALK-IN NOTES & CALCULATIONS

TABLE 11-A REFRIGERANT GROUPS AND ALLOWABLE QUANTITIES

Refrigerant	Alternative	Compressor	Alternative	System	Refrigerant	Alternative	System	Refrigerant	Alternative	System	Refrigerant	Alternative	System	Refrigerant	Alternative	System
134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a	134a

*** THIS SYSTEM DOES NOT REQUIRE A REFRIGERANT LEAK ALARM/MONITOR ***

CEILING DIFFUSER NECK CHART

NECK SIZE	CFM RANGE	DUCT SIZE	CFM RANGE
6" DIA.	0 - 80 CFM	6" DIA.	0 - 80 CFM
8" DIA.	85 - 175 CFM	8" DIA.	85 - 175 CFM
10" DIA.	180 - 320 CFM	10" DIA.	180 - 320 CFM
12" DIA.	325 - 550 CFM	12" DIA.	325 - 550 CFM
14" DIA.	555 - 825 CFM	14" DIA.	555 - 825 CFM
16" DIA.	830 - 1200 CFM	16" DIA.	830 - 1200 CFM

BRANCH DUCT SIZE CHART

DUCT SIZE	CFM RANGE
6" DIA.	0 - 80 CFM
8" DIA.	85 - 175 CFM
10" DIA.	180 - 320 CFM
12" DIA.	325 - 550 CFM
14" DIA.	555 - 825 CFM
16" DIA.	830 - 1200 CFM

AIR DEVICE SCHEDULE

TYPE	MFG.	MODEL	APPL.	MOUNTING	DESCRIPTION
A	INALLOR INDUSTRIES	4320GB-0722-0725	SUPPLY	124" x 24" top-in and return	165" fusible link, FIRE RATED Steel, REGENERATED curved blade diffuser, 4-WAY ADJUSTABLE
B	INALLOR INDUSTRIES	6145H	RETURN	24" x 24" top-in and return	Aluminum, fixed blade but face return air grille, NECK SIZE PER PLAN
C	INALLOR INDUSTRIES	5100	SUPPLY	24" ROUND SURFACE	Adjustable double deflection with opposed blade damper (DBD)
D	INALLOR INDUSTRIES	5100 SA-2	SUPPLY	24" ROUND SURFACE	NECK SIZE PER PLAN - Steel two position adjustable
E	INALLOR INDUSTRIES	5104	RETURN	SURFACE (SPRING)	48" x 1 and diffuser, adjustable double deflection, with opposed blade damper (DBD)

NOTES: ** NECK SIZE AND CFM AS NOTED ON FLOOR PLAN DRAWINGS.
** ALL GRILLES TO BE PAINTED TO MATCH ARCHITECTURAL SPECIFICATIONS. PROVIDE GRILLE WITH FINISH TO ACCEPT EMMAL PAINT.

EXHAUST FAN SCHEDULE

DESIGNATION	MFG.	MODEL	CFM	VOLTAGE	HP/SP	CONSTRUCTION	NOTES
FE-1	BROWN	L100	100	120 V. 1 PHASE	0.25 SP	DISCHARGE W/ BACK DRAFT DAMPER, DIRECT ROUTE DUCT UP TO ROOF VENT	PROVIDE WITH SWITCH ON/OFF FOR M.E.
FE-2	BROWN	L150	150	120 V. 1 PHASE	0.25 SP	DISCHARGE W/ BACK DRAFT DAMPER, DIRECT ROUTE DUCT UP TO ROOF VENT	PROVIDE WITH BACK DRAFT DAMPER, DIRECT ROUTE DUCT UP TO ROOF VENT
FE-3	BROWN	L150	150	120 V. 1 PHASE	0.25 SP	DISCHARGE W/ BACK DRAFT DAMPER, DIRECT ROUTE DUCT UP TO ROOF VENT	PROVIDE WITH BACK DRAFT DAMPER, DIRECT ROUTE DUCT UP TO ROOF VENT

6 MECHANICAL SYMBOLS



2 MECHANICAL SCHEDULES

Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil	Coil
NetSensCool	MoistureRemoval	MoistureRemoval	DischargeDB	NetSensCool	MoistureRemoval	MoistureRemoval	DischargeDB	NetSensCool	MoistureRemoval	MoistureRemoval	DischargeDB	NetSensCool	MoistureRemoval	MoistureRemoval	DischargeDB	NetSensCool	MoistureRemoval	MoistureRemoval	DischargeDB

1 MECHANICAL SPECIFICATIONS

- Furnish and install a complete and workable HVAC system per the plans and specifications. Comply with the latest edition of the Uniform Mechanical Code and the Uniform Building Code or it applies with modifications by the governing city to obtain the necessary permits for this project. The contractor shall be responsible for obtaining all necessary permits and shall be held liable for any violations of the code. The contractor shall be held liable for any violations of the code. The contractor shall be held liable for any violations of the code.
- Coordinate work with other trades and with job site conditions before installing and/or fabricating mechanical equipment. Verify the job site prior to bid date and becoming obligated with existing conditions to determine the extent of mechanical work which shall be required to complete the job. No tolerance and/or compensation will be made for failure to understand the scope of work required.
- The plans attempt to show the desired locations of mechanical equipment and shall be made for the location of equipment and/or materials may be required and conditions of no additional cost.
- Supply and return air ducts shall be metal duct internally lined (dining room) and externally lined (kitchen) ceiling or enclosed area) fabricated and installed by SHADMA and approved by the authority having jurisdiction over such equipment.
- HVAC contractor shall verify and coordinate with the electrical contractor HVAC unit voltage requirements and confirm it with the equipment mfr.
- Verify the final location of thermostats with the Architect and/or owner prior to installation. Mount to meet AIA mounting requirements. Standard conflicts exist between HVAC and Architectural documents, the Architectural documents shall govern.
- Furnish and install the equipment as shown. Coordinate the size and location for new openings and/or penetrations required. Secure necessary rough-in, data, telephone, and/or fire alarm penetrations. Cut required openings or penetrations in the appropriate framing devices and restore the existing construction to its original condition.
- Furnish and install all control devices including (but not limited to) thermostats, sensors, relays, and control wiring. Control wiring shall be installed in accordance with the applicable code requirements and shall be installed in airtight conduit.
- Contractor shall furnish shop drawings for NEW exhaust fans, and air devices and air handlers, and have conditioning units, and controls.
- Furnish and install the following materials:

MECHANICAL DETAILS

M-2

TOLA RESTAURANT
4601 Washington Ave
Houston, TX 77007

Gensler
711 Louisiana
Suite 300
Houston, Texas 77002
Tel: 713.844.0000
Fax: 713.844.0001

Issue	Date & Issue Description	By	Check
01	05/19/10 PERMIT/CONSTRUCTION		

PROJECT #10082
H.M. McLEOD, P.E.
4727 MERRIN ST. SUITE B
HOUSTON, TEXAS 77067
OFFICE: (713) 961-2899
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H. M. McLeod, P.E.
Professional Engineer
No. 2879
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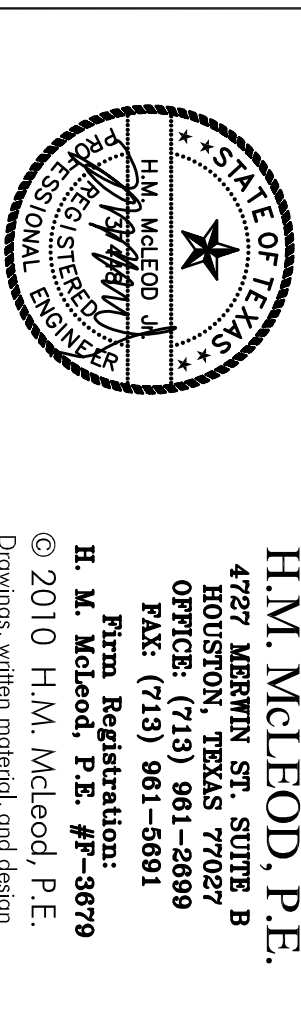
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Project Number:
CAD File Name:
Description: MECHANICAL DETAILS
Scale: 1/8" = 1'-0"

TOLA
RESTAURANT
4601 Washington Ave
Houston, TX 77007

Gensler
711 Louisiana
Suite 300
Houston, Texas 77002
Tel: 713.844.0000
Fax: 713.844.0001

Issue Date & Issue Description By Check
01 05/19/10 PERMIT CONSTRUCTION

Project #10082
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THIS SEAL WAS AUTHORIZED THIS DATE: 05/19/10
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Project Number:
CAD File Name:
Description:
Scale: HOOD DETAILS
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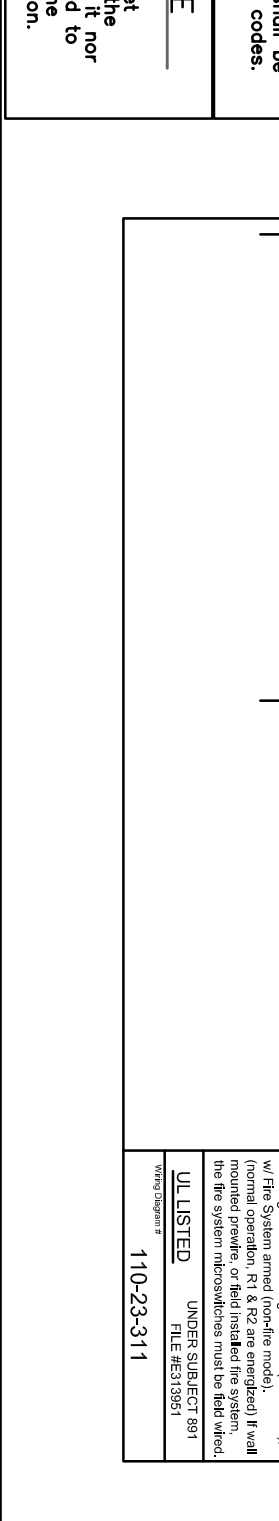
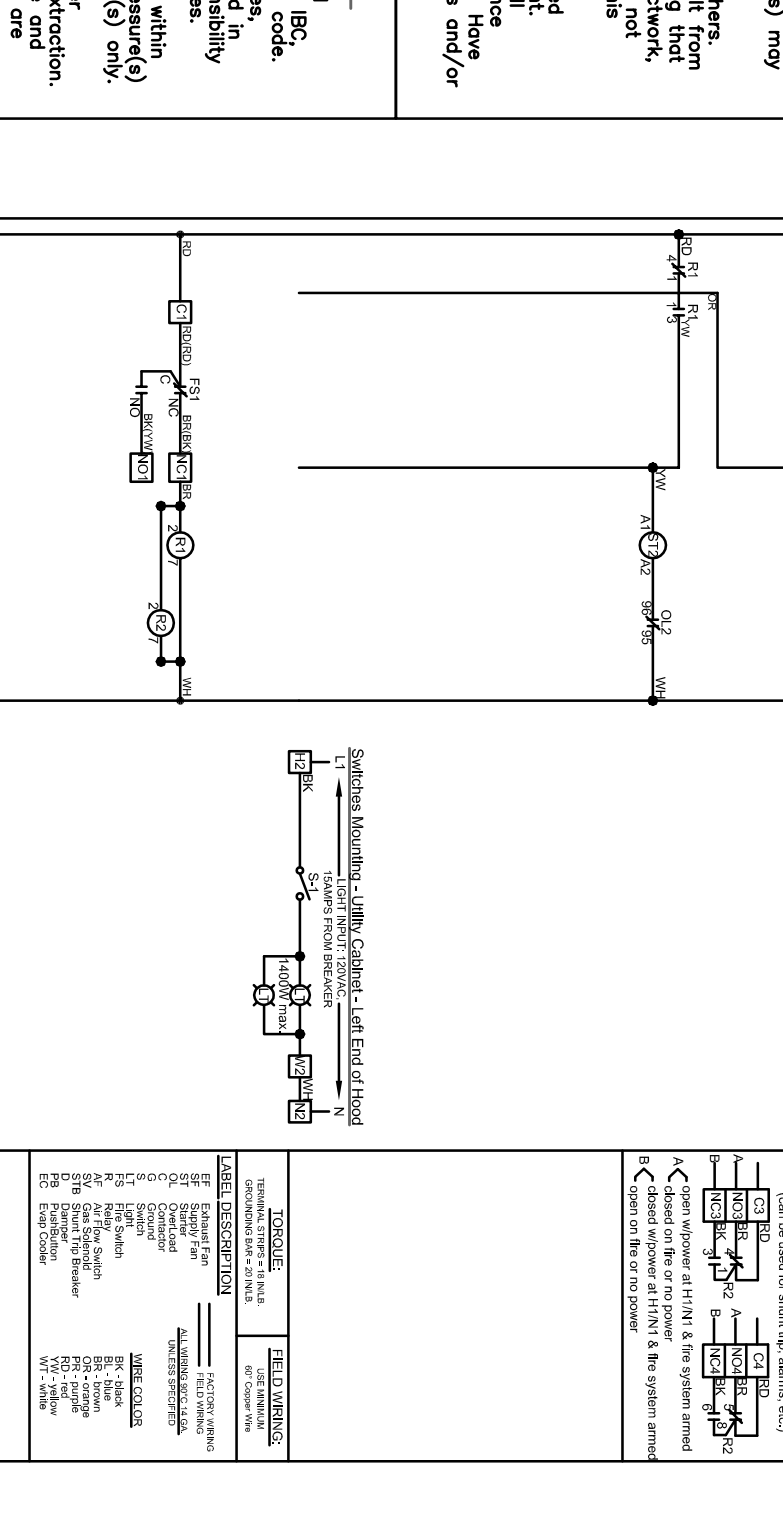
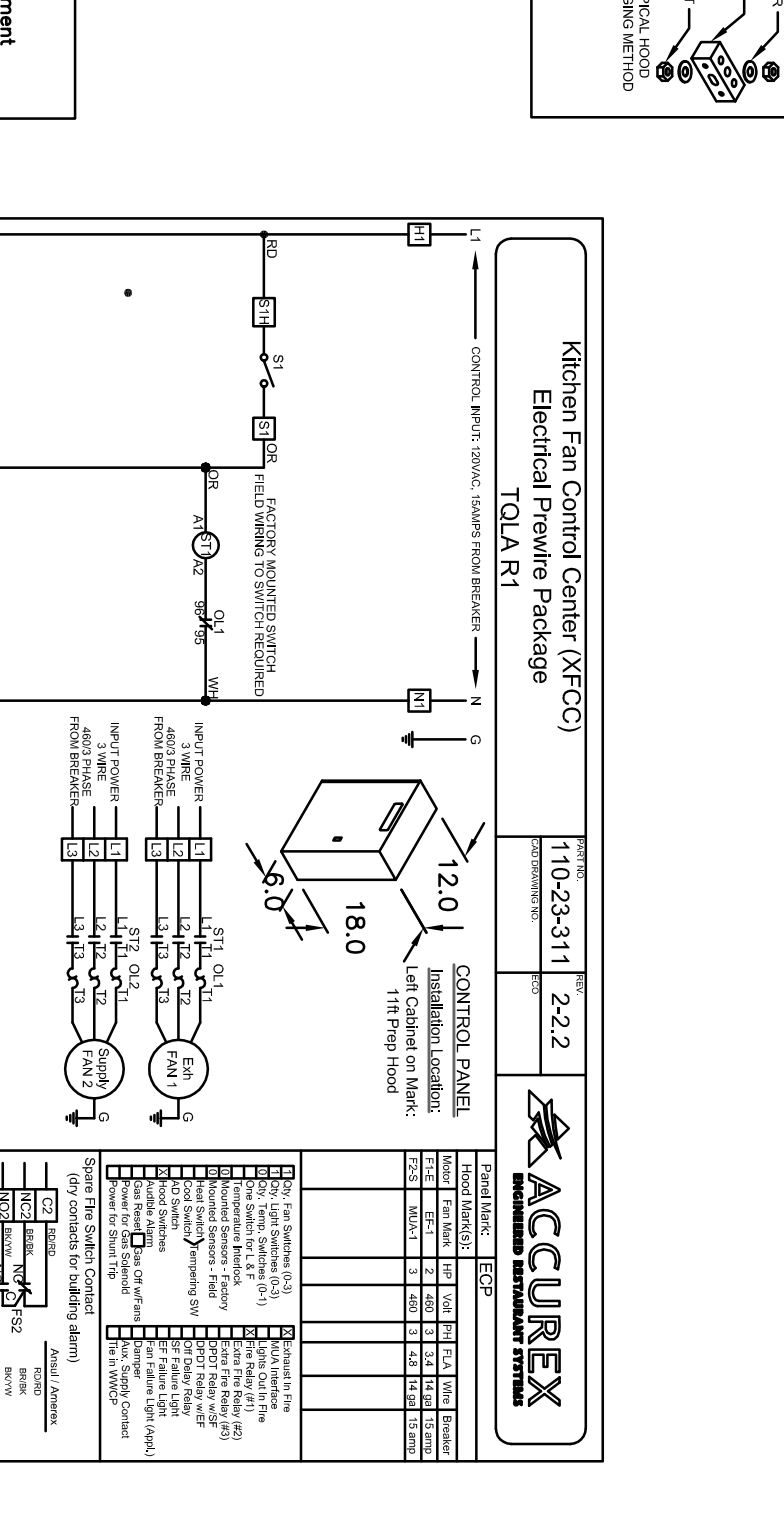
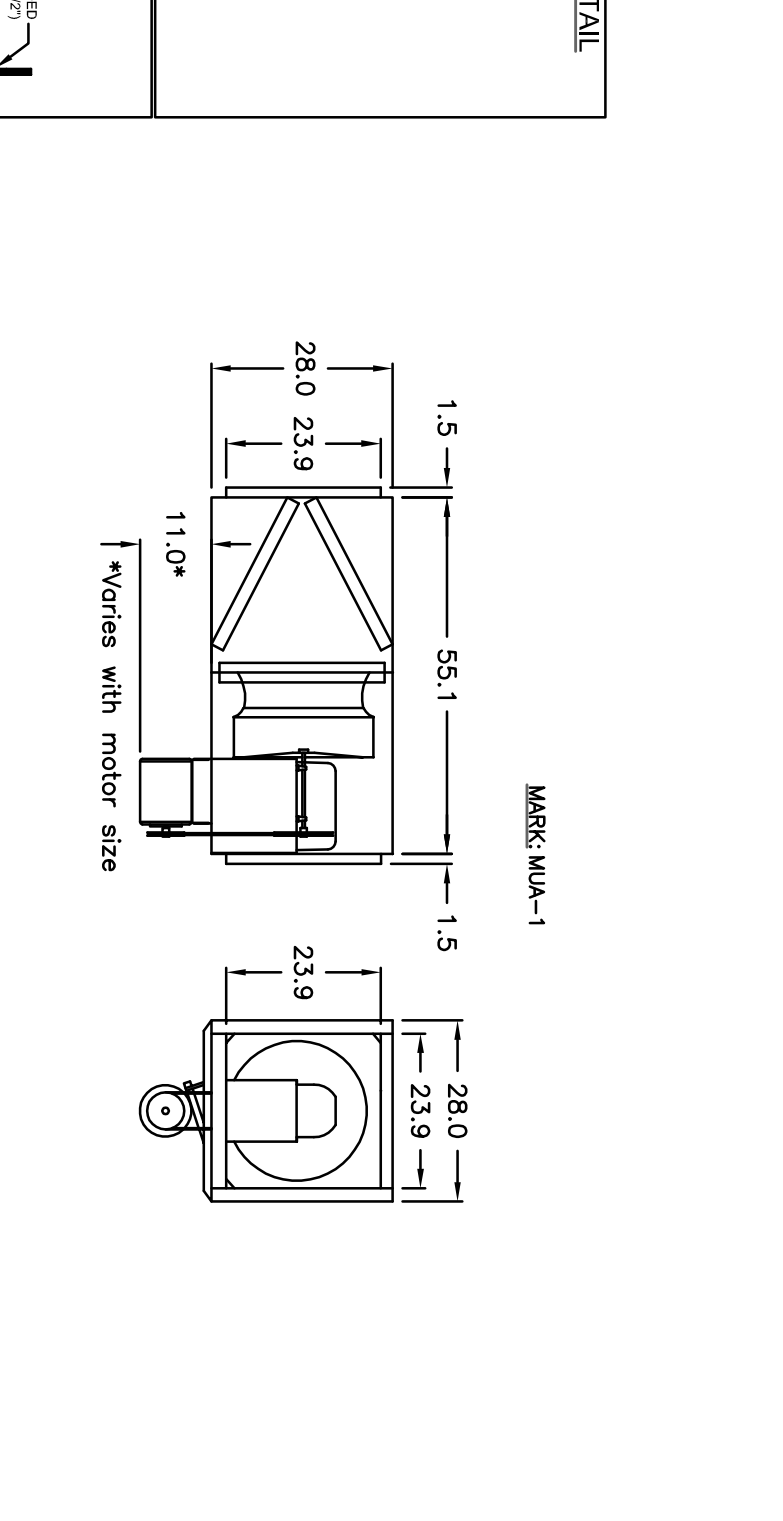
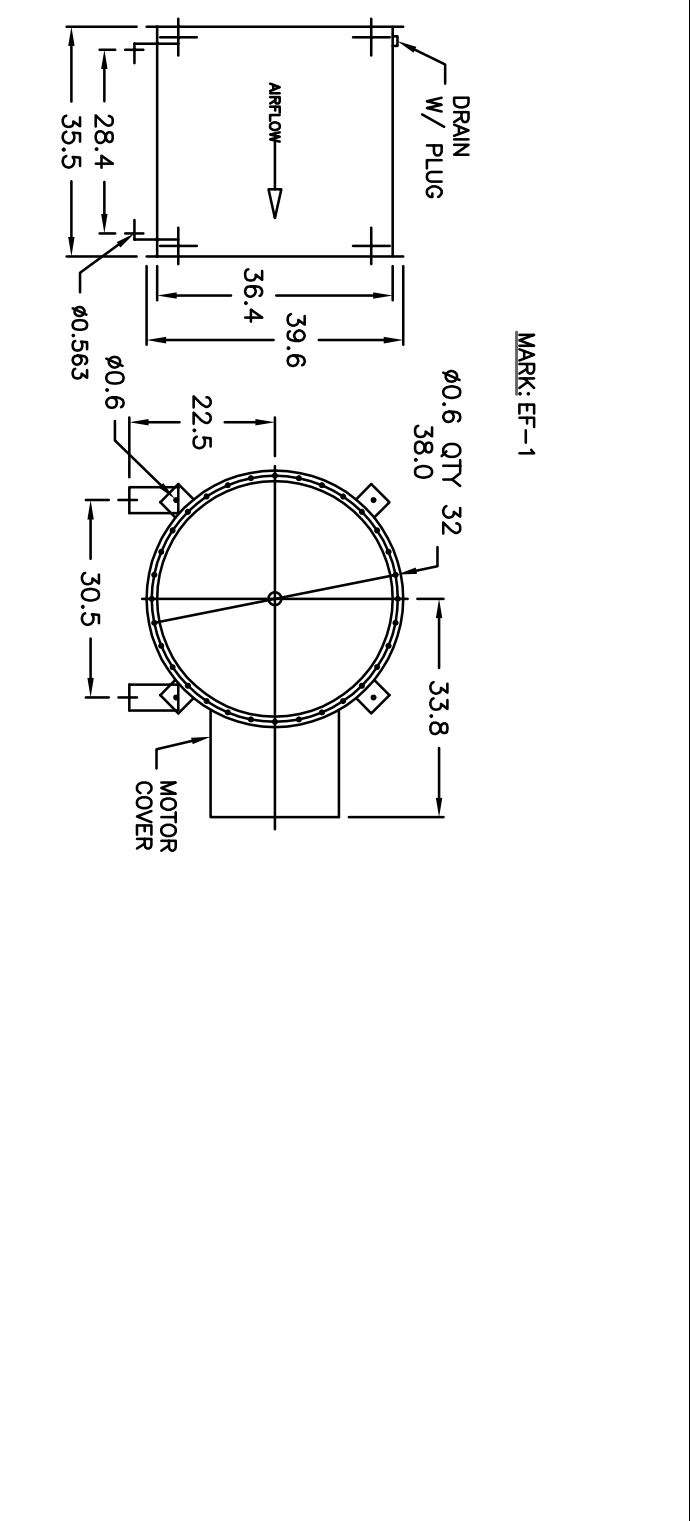
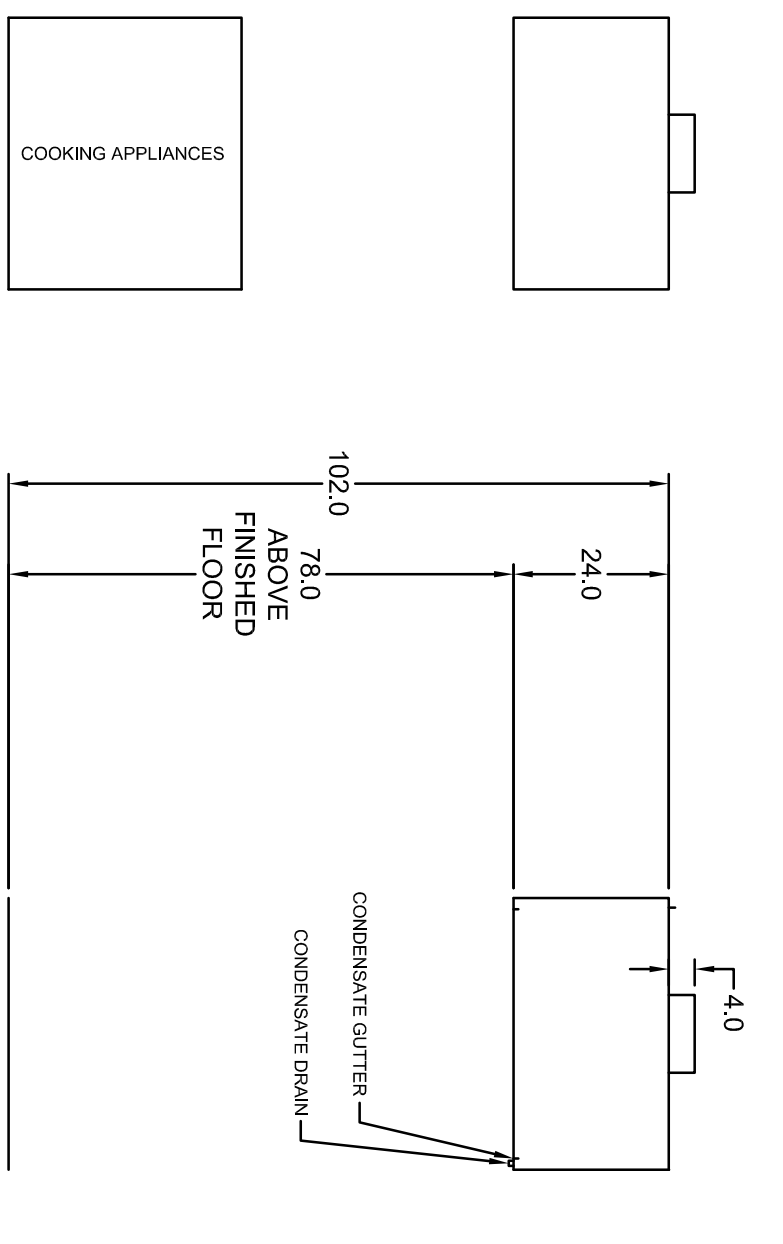
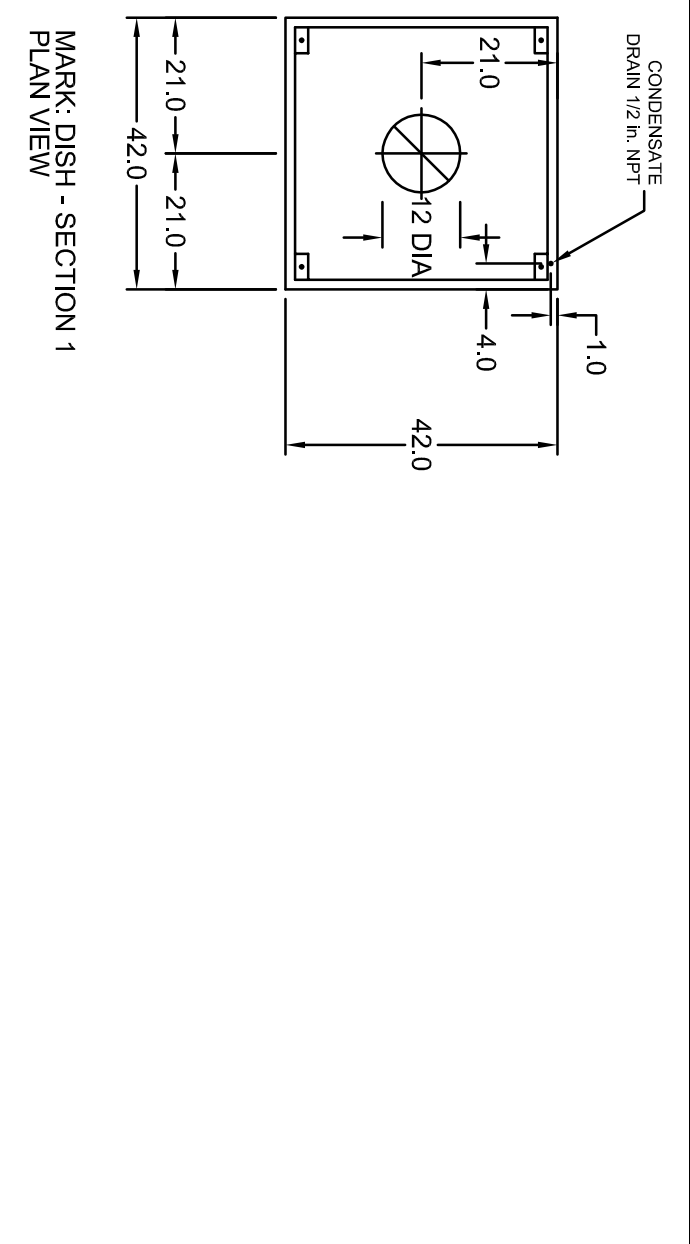
TYPE 2 KITCHEN HOOD		MARK: DISH	
HOOD #	ACCOMMODATION SECTION	HOOD DIMENSIONS	MARK: DISH
1	COMPENSATE	WIDTH HEIGHT	DEPTH CAPTURE RATE
1	COMPENSATE	42.0 IN. 42 IN.	1120 1800
TOTAL EXHAUST DISH - SECTION 1		42.0	1800
TOTAL EXHAUST DISH - SECTION 1		42.0	1800

EXHAUST FAN		MARK: DISH EF	
MODEL	QTY	HP	VELOCITY
100-10-8	525	0.500	1140
TOTAL EXHAUST FAN - TOGGLE, MOUNTED & WIRED		0.2625	570.0
TOTAL EXHAUST FAN - TOGGLE, MOUNTED & WIRED		0.2625	570.0

EXHAUST FAN		MARK: MUA-1	
MODEL	QTY	HP	VELOCITY
100-10-8	525	0.500	1140
TOTAL EXHAUST FAN - TOGGLE, MOUNTED & WIRED		0.2625	570.0
TOTAL EXHAUST FAN - TOGGLE, MOUNTED & WIRED		0.2625	570.0

MAKE-UP FAN		MARK: MUA-1	
MODEL	QTY	HP	VELOCITY
100-10-30	4750	0.807	1358
TOTAL MAKE-UP FAN - TOGGLE, MOUNTED & WIRED		3.8435	1460.0
TOTAL MAKE-UP FAN - TOGGLE, MOUNTED & WIRED		3.8435	1460.0

ELECTRICAL CONTROL BOX		MARK: ECP	
MODEL	QTY	HP	VELOCITY
100-10-30	4750	0.807	1358
TOTAL ELECTRICAL CONTROL BOX - TOGGLE, MOUNTED & WIRED		3.8435	1460.0
TOTAL ELECTRICAL CONTROL BOX - TOGGLE, MOUNTED & WIRED		3.8435	1460.0



CONTROL PANEL T.F. INSTALLATION DETAIL
HOOD HANGER BRACKET DETAIL
GENERAL DRAWING NOTES
VENTILATION SYSTEM NOTES
PROPRIETARY INFORMATION NOTICE

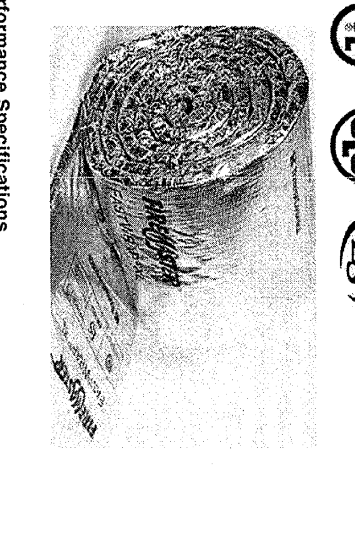


ACCUREX
Greater Texas and Oklahoma
Regional Office
Phone 214-632-7239
mark.hornilton@accurex-systems.com

REV	DESCRIPTION	DATE
1	TOLA	06/29/10



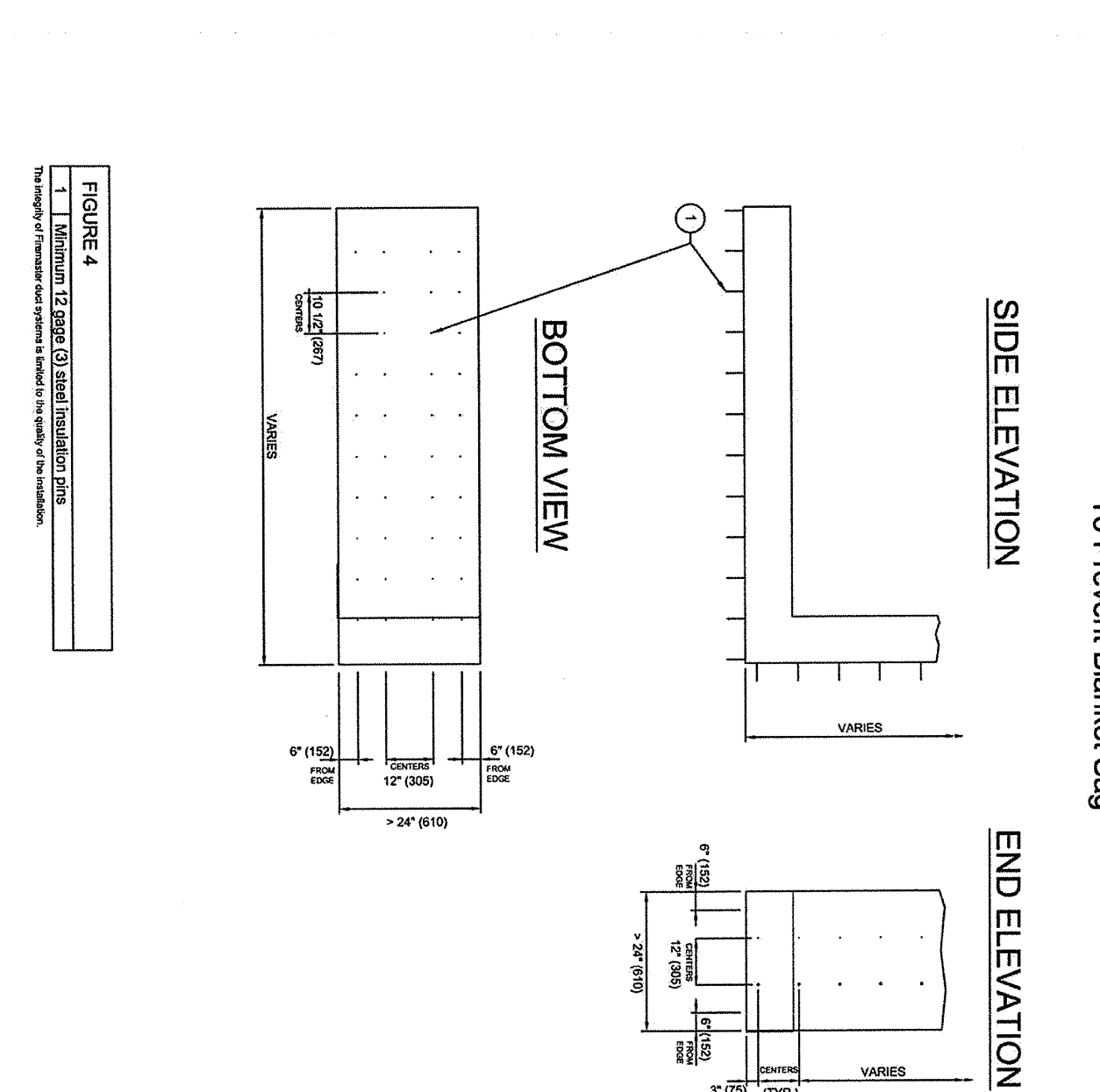
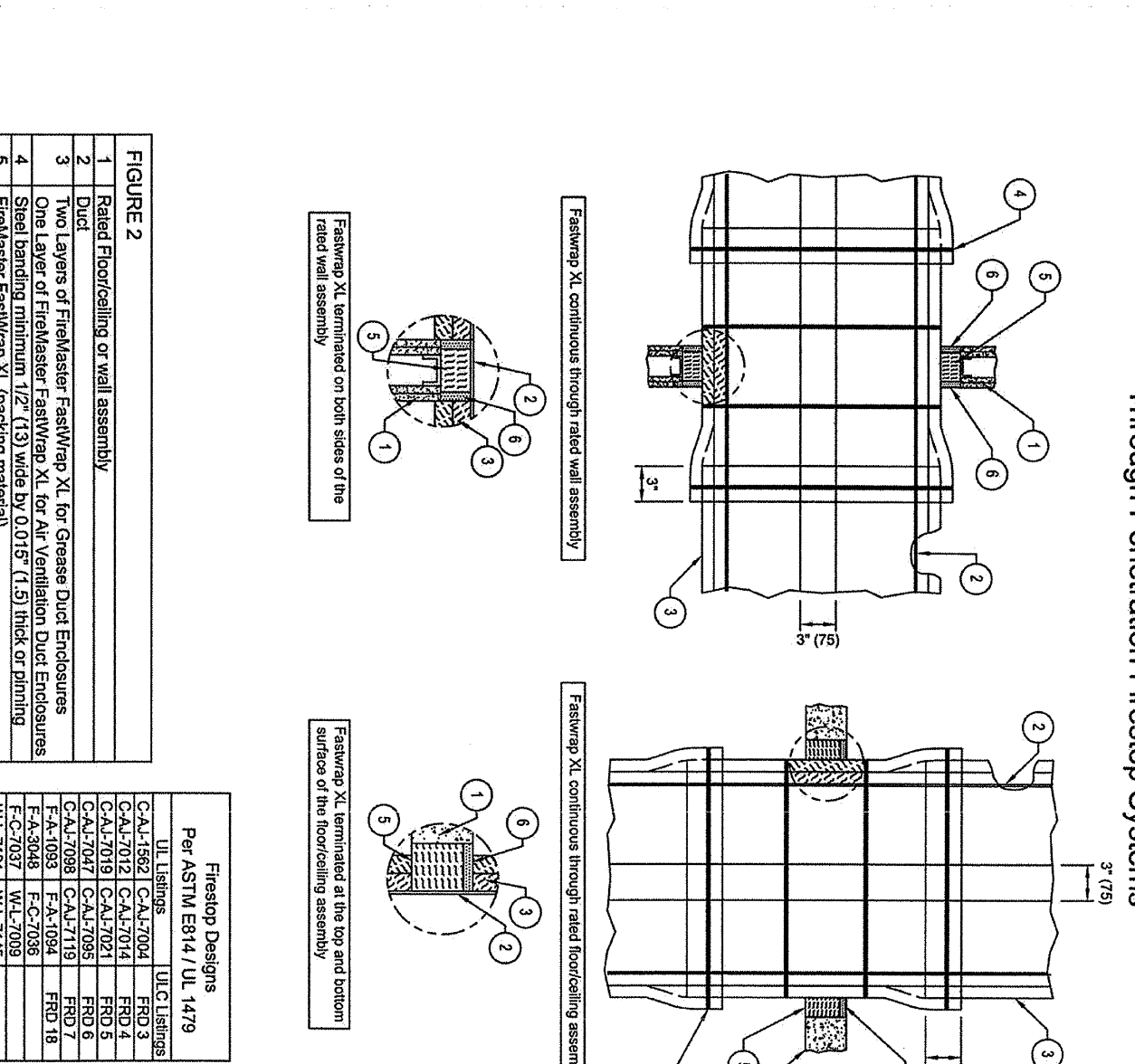
Product Data & Installation Guide
FastWrap^{XL} is a two-hour bonded composite of (200°C) and UL registered in a quartz glass fiber reinforcement (UL Classified and ULC Listed) in various systems for 1 and 2 hour fire resistant enclosure protection, indirect discharge, and 2 hour fire resistant enclosure protection, indirect discharge, and 2 hour fire resistant enclosure protection, indirect discharge, and 2 hour fire resistant enclosure protection, indirect discharge. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection.



4 Performance Specifications

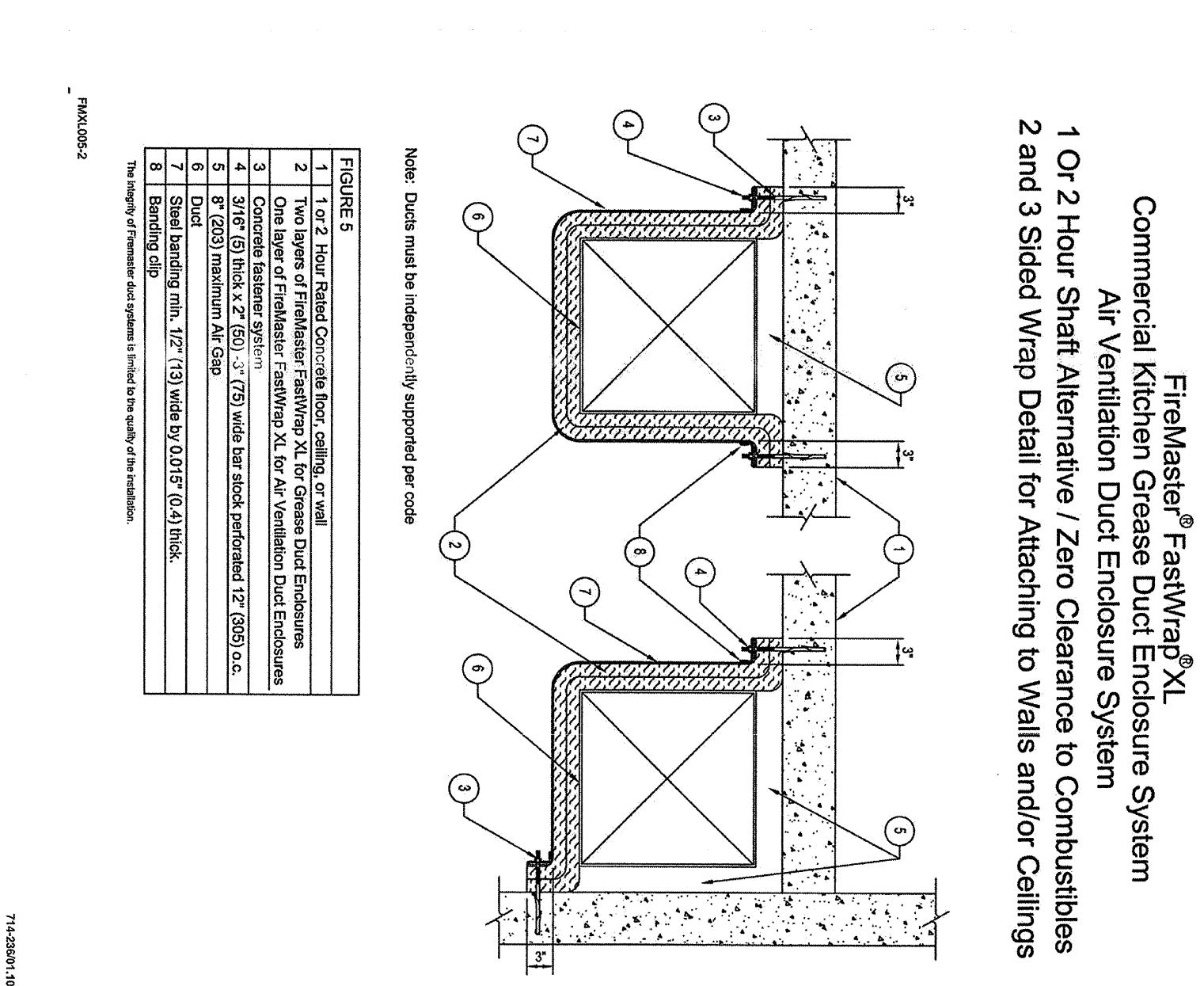
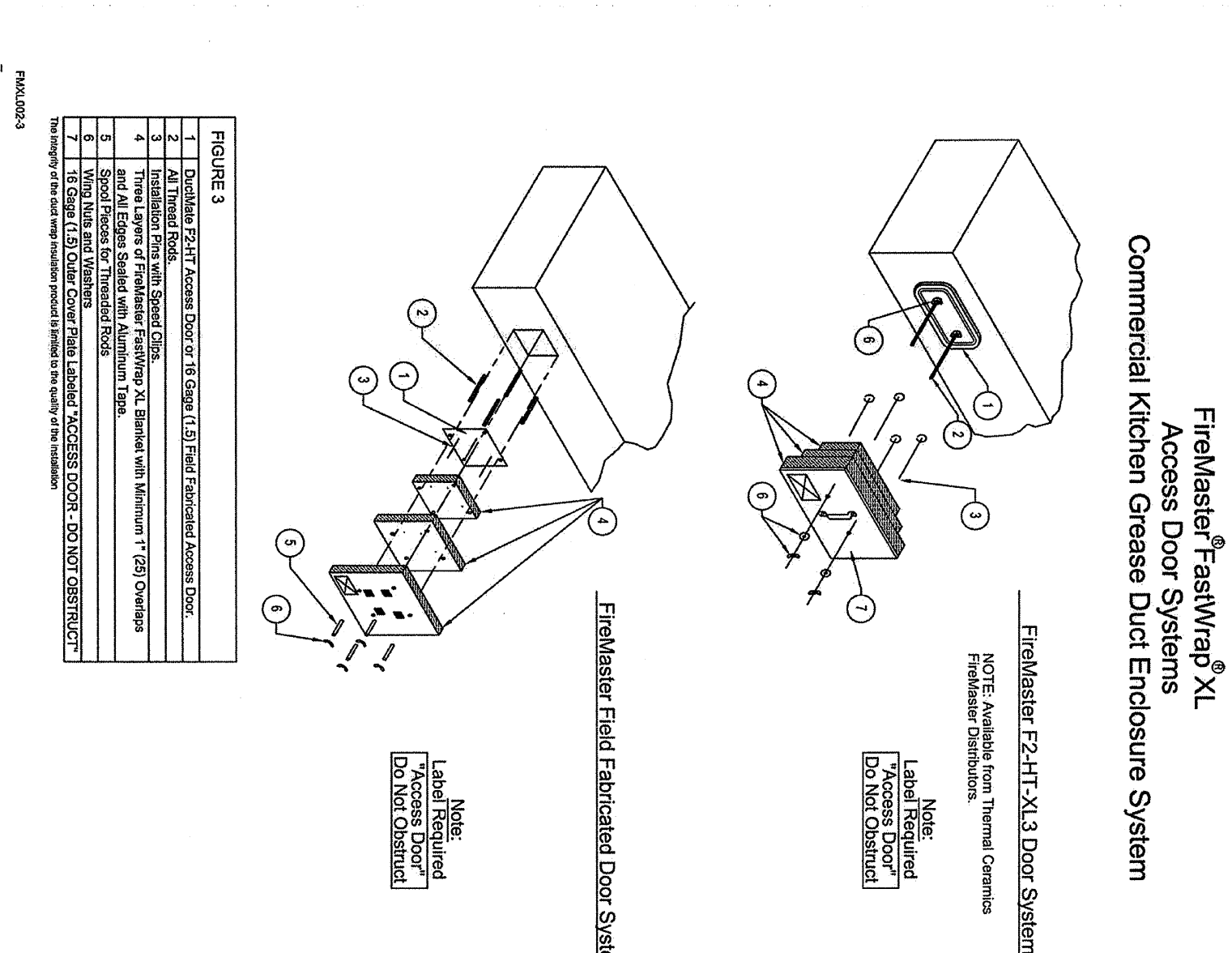
System	Standard No.	Performance
Grease Duct Enclosure System	ASTM E2386	Pass
Grease Duct Enclosure System	ASTM E189	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E2386	Pass
Grease Duct Enclosure System	ASTM E189	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass
Grease Duct Enclosure System	ASTM E139	Pass

against the interior steel sheet to seal the access cover.
FastWrap^{XL} is a two-hour bonded composite of (200°C) and UL registered in a quartz glass fiber reinforcement (UL Classified and ULC Listed) in various systems for 1 and 2 hour fire resistant enclosure protection, indirect discharge, and 2 hour fire resistant enclosure protection, indirect discharge. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection. The system is designed for use in various kitchen, collar, and walk-in cooler applications. The core fibers are reinforced with a high strength fiber for added safety and protection.



6. Storage. XL must be stored in a dry weather environment on pallets. Pallets should not be stacked.
7. Installation. Installation should be installed by a qualified contractor in accordance with manufacturer's instructions and design listings. See figures 1 to 5 for complete details.
FastWrap^{XL} Material
• FastWrap^{XL} Blanket
• Attachment Fabric (optional)
• Carbon steel or stainless steel banding material, minimum thickness 1/8" (3.2mm) minimum (0.25mm) thick, with self-healing and repair capability
• Metal banding hardware and attaching hardware (minimum 3/8" (9.5mm) diameter, 3/16" (4.8mm) hole)
• Reinforcing hardware (minimum 1/2" (12.7mm) diameter, 1/4" (6.4mm) hole)
• Reinforcing hardware (minimum 1/2" (12.7mm) diameter, 1/4" (6.4mm) hole)
• Reinforcing hardware (minimum 1/2" (12.7mm) diameter, 1/4" (6.4mm) hole)

of the site of the duct, a depth of 1/2" (12.7mm) of the insulation must be removed from the duct surface and the insulation must be attached to the outer concrete or CMU assembly and the FastWrap^{XL} must be installed around all access openings. It shall be secured to the adjoining assembly with minimum 3/16" (4.8mm) diameter self-healing and repair hardware.
1) FastWrap^{XL} Blanket
FastWrap^{XL} must be installed around all access openings. It shall be secured to the adjoining assembly with minimum 3/16" (4.8mm) diameter self-healing and repair hardware. The attachment fabric shall be applied to the concrete or CMU surface. The insulation must be attached to the outer concrete or CMU assembly and the FastWrap^{XL} must be installed around all access openings. It shall be secured to the adjoining assembly with minimum 3/16" (4.8mm) diameter self-healing and repair hardware.



MECHANICAL OR HOOD CONTRACTOR TO INSTALL A MINIMUM OF TWO LAYERS OF ONE HOUR WRAP AS SPEC'D.

PROJECT #10082
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