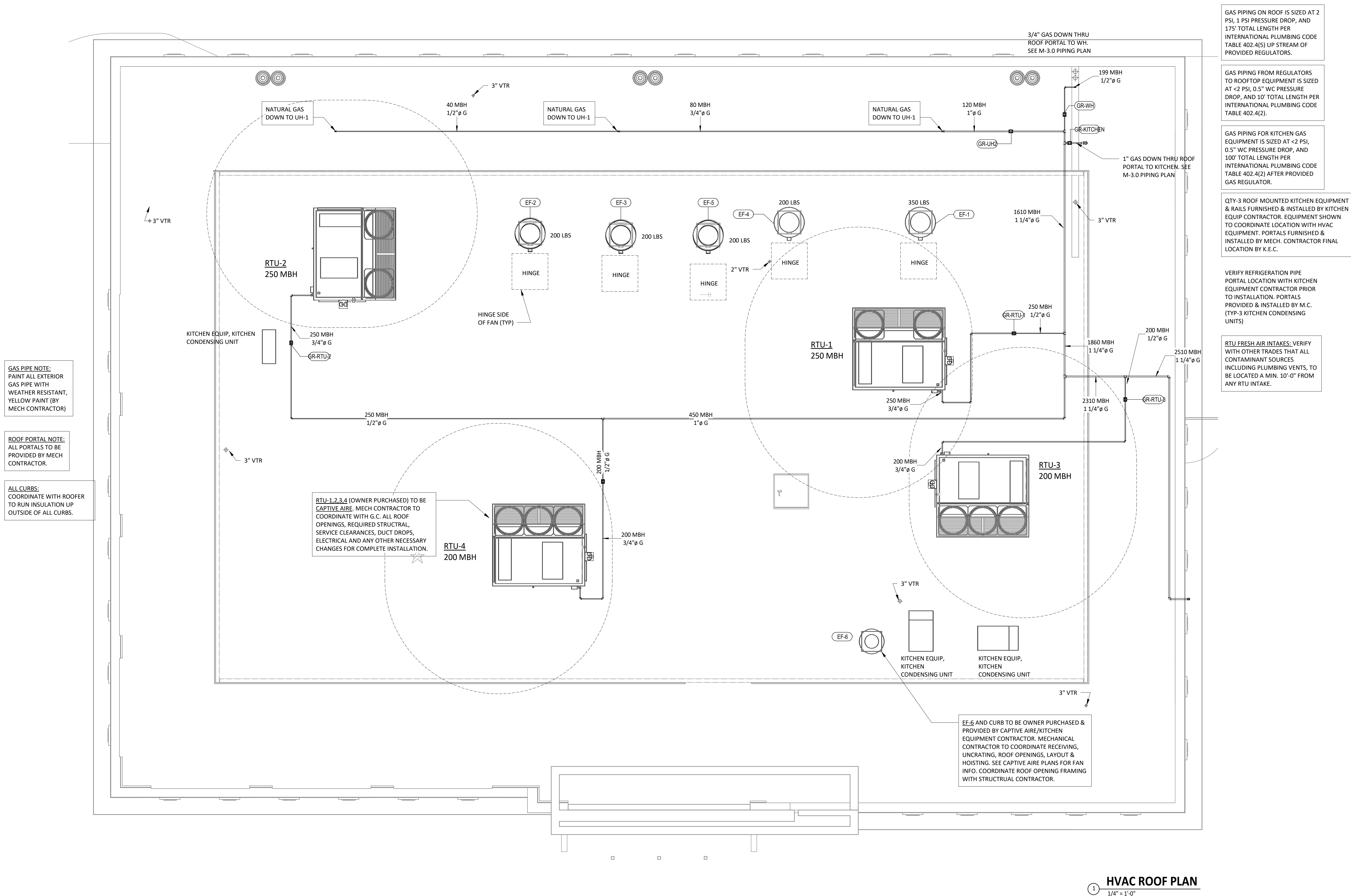
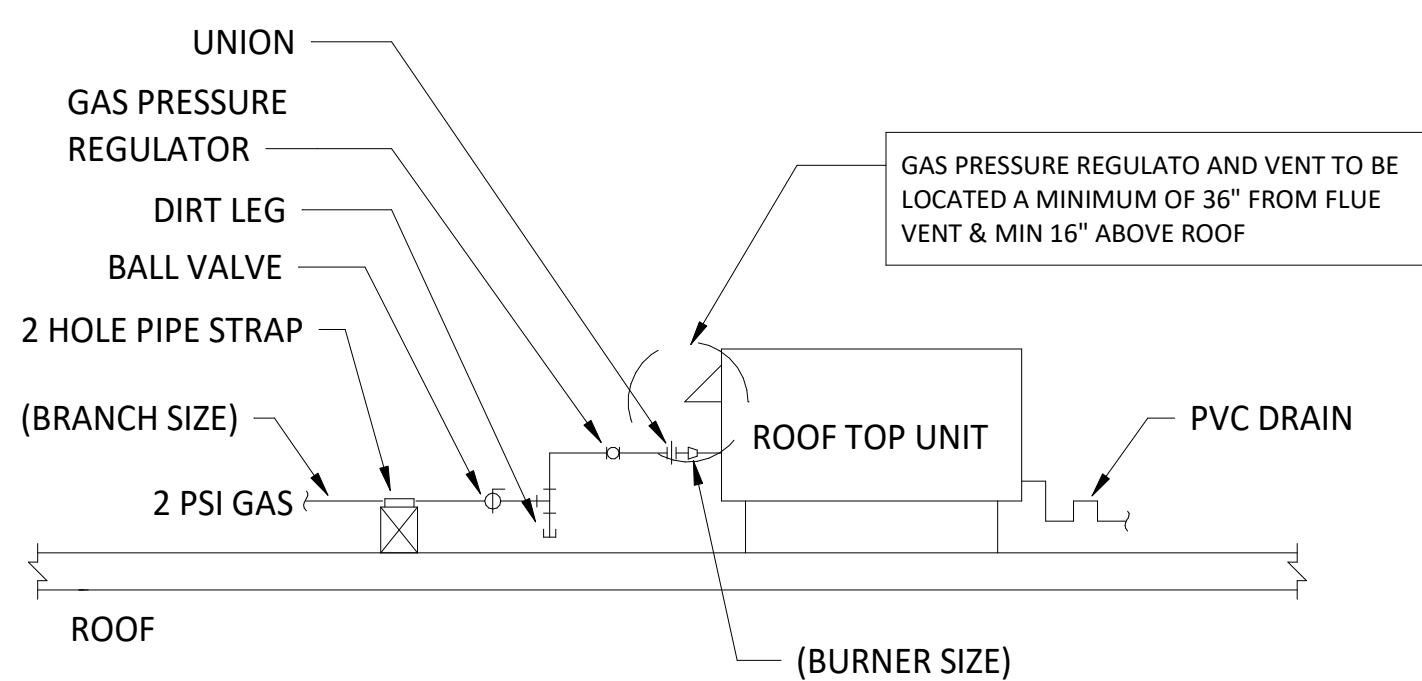




HVAC ROOF PLAN

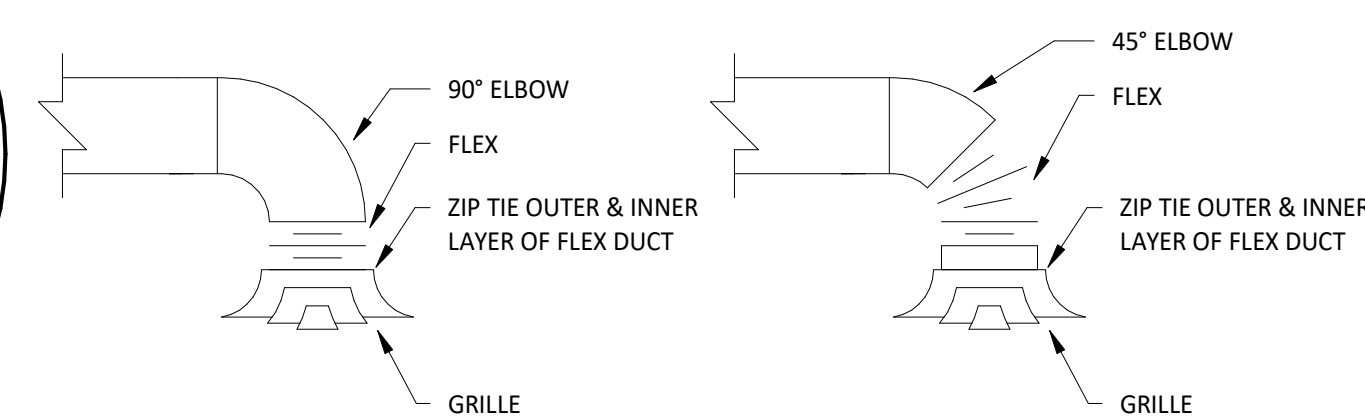
1/4" = 1'-0"



NOTE: (MED PRESSURE) GAS PIPE OUTSIDE

ROOFTOP GAS PIPING DETAIL

1/4" = 1'-0"


$$1/4'' = 1'-0''$$

KITCHEN HOOD/ENCLOSURES, FANS EF 1-5 & DUCTWORK SHALL BE RECEIVED UNCRATED & INSTALLED BY M.C., PROVIDED BY KITCHEN FRYER UDS FOR HOOD #2 TO BE INSTALLED BY M.C. SEE CAPTIVE AIR PLANS.

EXTEND 26 GA SHEET METAL ALONG BACK & SIDE WALL BETWEEN CEMENT BOARD WALL & HOOD. EXTEND 18" IN ALL DIRECTIONS FROM THE HOOD. SEE HOOD SECTION VIEW THIS PAGE (TYPHOODS 3, 4)

SEE CAPTIVE AIR DRAWINGS
FOR HOOD DUCT ROUTING,
SIZE & FITTINGS

HUNG
OS AND
RS



2 $1/2'' = 1'-0''$



RTU 3

[illegible]



CONTACT

L: _____

PE FIRM REGISTRATION
E - 8396

22/2024

CONSULTA



755 SANDHILL ROAD
LLAS, TEXAS 75238
214-343-9400
ensiongroup.com



STAIRANT PROTOTYPE

STORE #: 24002

PROJECT ADDRESS:
SW CORNER OF WARRIOR TRL & HWY 161
GRAND PRAIRIE, TX 75052



② $1/4'' = 1'-0''$


$$1/4'' = 1'-0''$$
[illegible]

DATE: 08.22.2024

BY: TS

ED BY: AH

SUBJECT #: _____

PHD24002.0

ET TITLE:

WASTE OIL PIPING DIAGRAM

SET NUMBER:

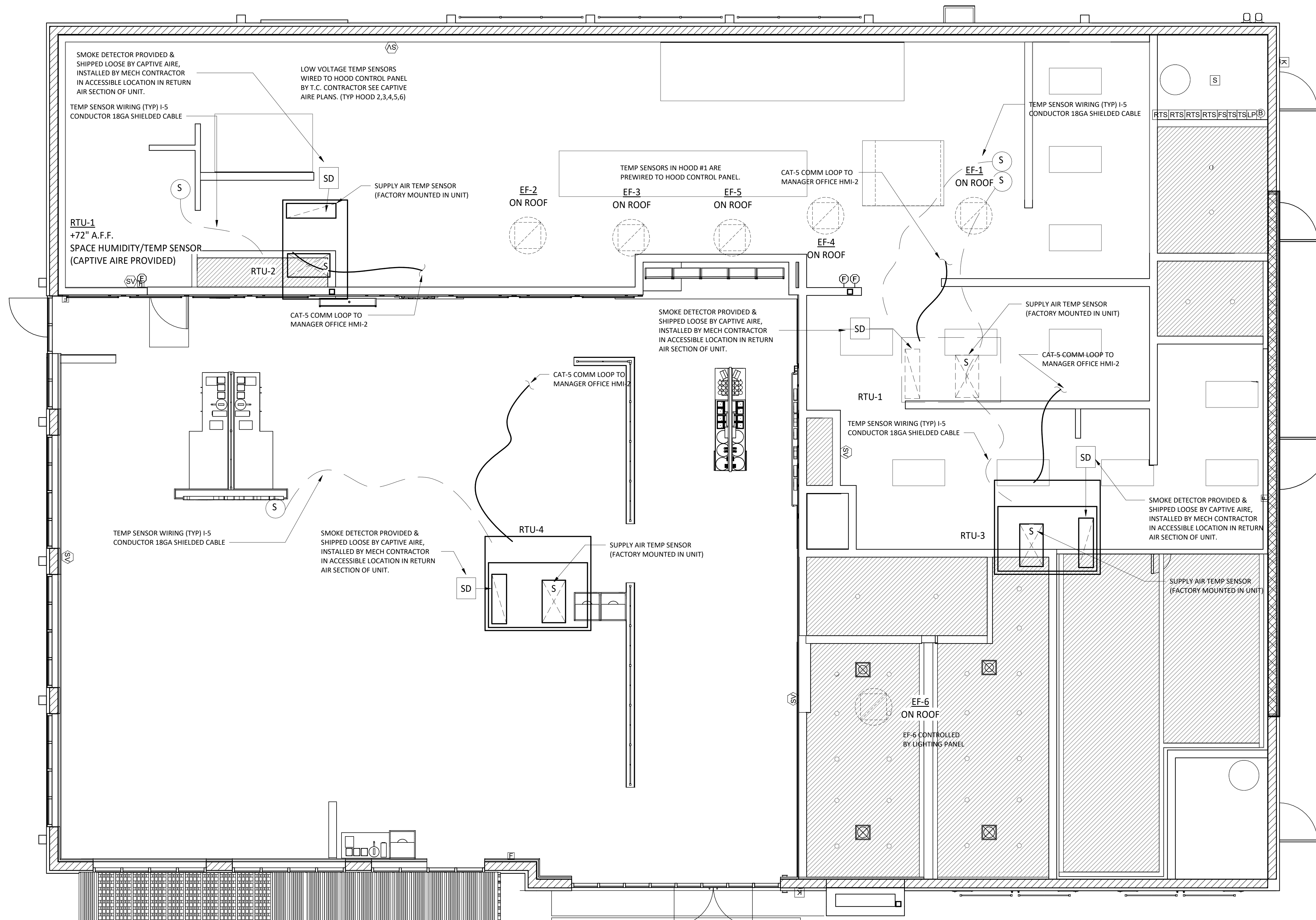
REVISION	DATE	DESCRIPTION
1	08/22/2024	ISSUE DATE
2	08/22/2024	DRAWN BY: TS
3	08/22/2024	CHECKED BY: AH
4	08/22/2024	PROJECT #:
5	08/22/2024	PHD24002.0
6	08/22/2024	SHEET TITLE:
7	08/22/2024	HVAC TEMPERATURE CONTROL PLAN
8	08/22/2024	SHEET NUMBER:
9	08/22/2024	M4-0

ALL LOW VOLTAGE WIRING
ASSOCIATED WITH CONTROL OF
HOODS & HVAC EQUIPMENT ON
ROOF IS DONE BY TEMP CONTROL
CONTRACTOR. SEE CAPTIVE AIRE
PLANS FOR WIRING DIAGRAMS.

LOW VOLTAGE WIRING FROM ALL
HOODS ON FIRE SYSTEM AND LOW
VOLTAGE TEMP SENSORS WIRED TO
HOOD CONTROL PANEL BY T.C.
CONTRACTOR. TEMP SENSORS IN
HOOD #1 ARE PREWIRED.

ELECTRONIC GAS VALVE TO BE
PROVIDED BY CAPTIVE AIRE AND
INSTALLED BY MECHANICAL
CONTRACTOR 120V POWER FROM
CAPTIVE AIRE HOOD#1 CONTROL PANEL
BY E.C. (SEE M-3.0 FOR GAS PIPING)

EACH RTU SHALL HAVE (1) CAT-5 FROM
HMI-1 WITHIN THE DOAS CONTROL
VESTIBULE WIRED TO HMI-2 WITHIN
MANAGERS OFFICE TO ALLOW FOR
REMOTE CONTROLLER (T-STAT) ACCESS
FROM MANAGERS OFFICE.

**RESPONSIBILITY NOTES:**

ALL HEAT SENSOR WIRING FROM HOOD COLLARS TO CAPTIVE AIRE HOOD #1 CONTROL PANEL IS BY T.C. CONTRACTOR.

120V FIRE ALARM SHUTDOWN FROM CAPTIVE AIRE HOOD #4 CONTROL PANEL TO EACH RTU F TERMINAL BLOCK IS BY ELECTRICAL CONTRACTOR.

ALL ANSUL WIRING BETWEEN HOODS AND FIRE ALARM CONTROL PANEL IS BY FIRE ALARM CONTRACTOR.

ALL R/A SMOKE DETECTOR RELAYS & WIRING BETWEEN FIRE ALARM PANEL AND RTU'S IS DONE BY FIRE ALARM CONTRACTOR.

SEQUENCE OF OPERATION

DOAS UNIT WILL OPERATE WITH AN OCCUPIED/UNOCCUPIED SCHEDULE AND WILL BE FORCED INTO "OCCUPIED" OVERRIDE THROUGH A WIRED INTERLOCK WITH THE HOODS TO TELL THE CORRESPONDING DOAS WHEN HOOD EXHAUST FANS ARE OPERATING.

OCCUPIED OPERATION (HOODS ON):

- BLOWER RUNS CONTROLS, CONSTANT VOLUME AS PER THE SPECIFIED CFM (SEE RTU SCHEDULE)
- DAMPER SET TO MAX OUTDOOR AIR POSITION (SEE RTU SCHEDULE)
- UNIT SET FOR SPACE TEMP CONTROL TO MAINTAIN USER SPACE SET POINTS FOR HEATING/COOLING/DEHUMIDIFICATION - ACTIVATES ON EITHER INTAKE TEMP/HUMIDITY CONDITIONS OR SPACE TEMP/HUMIDITY CONDITIONS

(NOTE ALL SET POINTS BELOW ARE USER CONFIGURABLE):

- SPACE HEAT SET POINT = 69F
- SPACE COOL SET POINT = 72F
- SPACE DW SET POINT = 55F (55% RH@ 72F DB)
- UNIT WILL ALSO ACTIVATE ON INTAKE CONDITIONS TO ENSURE IT NEVER PROVIDES UNTEMPERED AIR THAT IS TOO HOT/COLD/HUMID INTO SPACE.

UNOCCUPIED OPERATIONS (HOODS OFF):

- BLOWER SET TO "AUTO" - ONLY TURNS ON WHEN THERE IS A CALL FOR SPACE HEATING/COOLING - BLOWER WILL OPERATE WITH THE SAME SUPPLY CFM AS LISTED FOR OCCUPIED OPERATION.
- DAMPER IS SET TO 100% RECIRC. (0% OUTSIDE AIR)
- UNIT IS SET TO SPACE TEMP/HUMIDITY CONTROL, WILL ACTIVATE ON SPACE CALL FOR ACTIVATION ONLY

(NOTE ALL SET POINTS BELOW ARE USER CONFIGURABLE):

- SPACE HEAT SET POINT = 69F
- SPACE COOL SET POINT = 72F
- SPACE DW SET POINT = 55F (55% RH@ 72F DB)

HVAC TEMPERATURE CONTROL PLAN

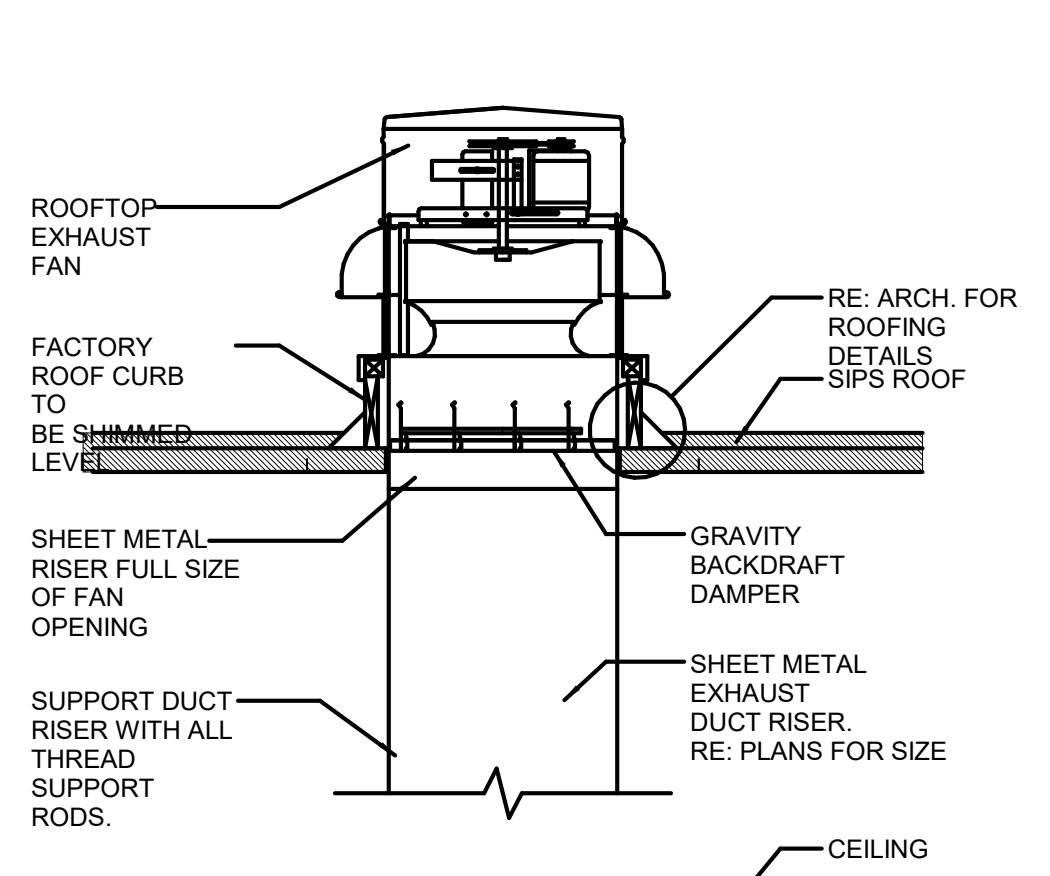
1/4" = 1'-0"

ROOFTOP UNIT SCHEDULE												
TAG	MANUFACTURER	MODEL	TONS	CFM		SERVICE	ELECTRIC			HP	GAS HEAT	
				TOTAL [CFM]	OUTSIDE AIR		V/P/H	MCA	MOCP		INPUT MBH	OUTPUT MBH
RTU-1	CaptiveAir	CASRTU3-1.250-20-30T	30	3300	3100	KITCHEN	208/3/60	134.6	150	3	250	200
RTU-2	CaptiveAir	CASRTU3-1.250-20-30T	30	3300	3100	KITCHEN	208/3/60	135.2	150	3	250	200
RTU-3	CaptiveAir	CASRTU3-1.200-20-20T	20	3300	1300	DINING/RES TROOM	208/3/60	109.7	110	5	200	160
RTU-4	CaptiveAir	CASRTU3-1.200-20-20T	20	3300	1300	DINING/BAR	208/3/60	109.7	110	5	200	160

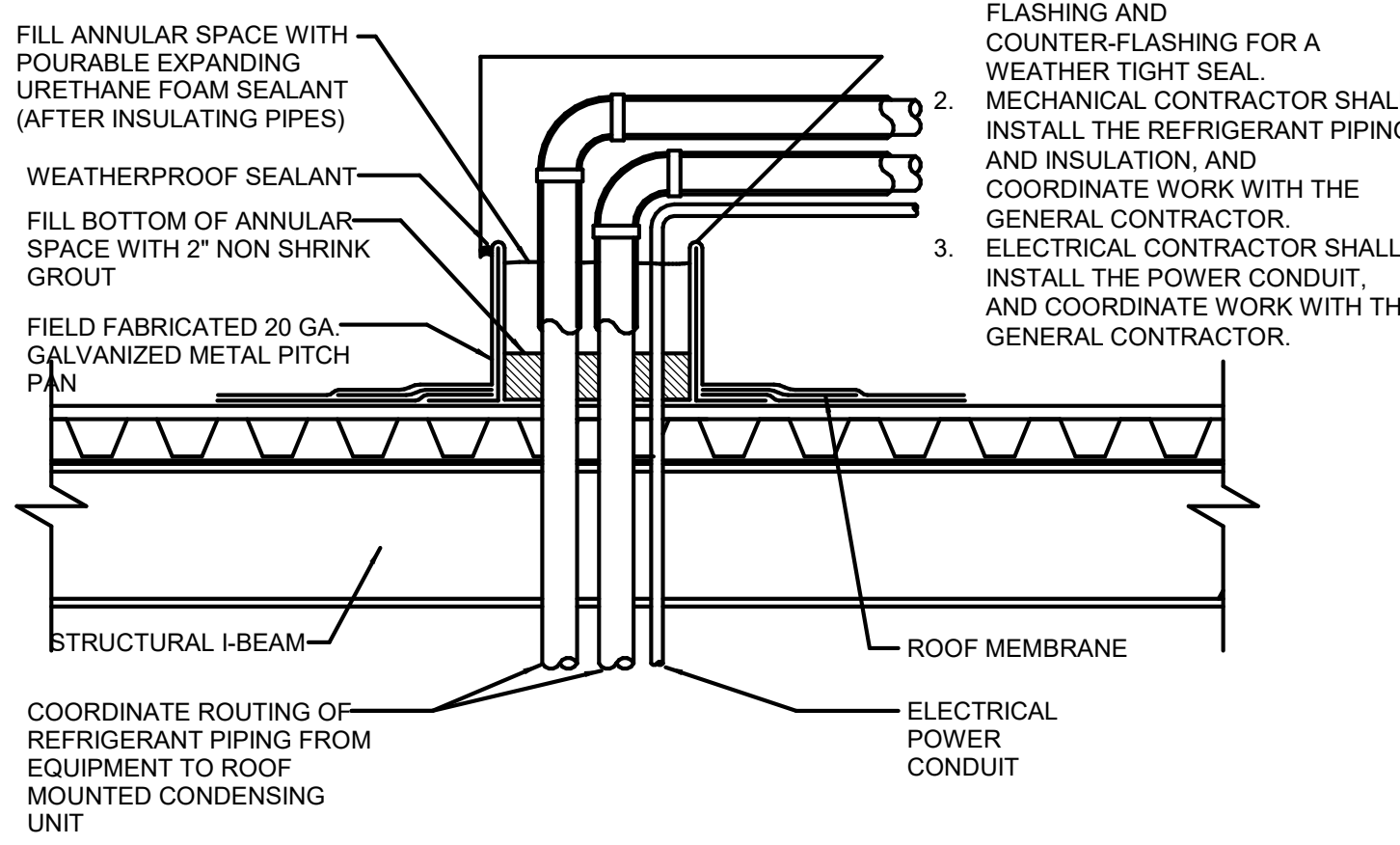
FAN SCHEDULE									
TAG	BASIS FOR DESIGN		TYPE	EXHAUST FLOW [CFM]	HP	ELECTRIC		LOCATION	AREA SERVED
	MANUFACTURER	MODEL				V/P/H	F.A		
EF-1	CaptiveAire	DUBSHFA	UPBLAST	1500 CFM	0.750	208/3/60	2.6	ROOF	KITCHEN HOOD #1
EF-2	CaptiveAire	DU180HFA	UPBLAST	1700 CFM	1.000	208/3/60	3.8	ROOF	KITCHEN HOOD #2
EF-3	CaptiveAire	DU180HFA	UPBLAST	2125 CFM	2.000	208/3/60	6.1	ROOF	KITCHEN HOOD #3
EF-4	CaptiveAire	DU180HFA	UPBLAST	2125 CFM	2.000	208/3/60	6.1	ROOF	KITCHEN HOOD #4
EF-5	CaptiveAire	DU180HFA	UPBLAST	1800 CFM	1.000	208/3/60	3.8	ROOF	KITCHEN HOOD #5
EF-6	CaptiveAire	DR33HFA	DOWNBLAST	750 CFM	0.333	115/1/60	4.3	ROOF	TOILETS

GAS REGULATOR SCHEDULE										
TAG	MANUFACTURER	MODEL	MAX INLET PRESS	NORMAL OPERATION PRESSURE	REQUIRED OUTPUT PRESSURE	MAX CFH(MBH)	MIN CFH(MBH)	INLET PIPE SIZE	SERVICE	REMARKS
GR-KITCHEN	MAXITROL	325-7A	2PSI	1PSI	7"WC	1250	50	1-1/4"	KITCHEN	5R WEATHER PROOF CAP
GR-RTU-1	MAXITROL	325-5	2PSI	1PSI	7"WC	325	50	3/4"	RTU-1	5R WEATHER PROOF CAP
GR-RTU-2	MAXITROL	325-5	2PSI	1PSI	7"WC	325	50	3/4"	RTU-2	5R WEATHER PROOF CAP
GR-RTU-3	MAXITROL	325-5	2PSI	1PSI	7"WC	325	50	3/4"	RTU-3	5R WEATHER PROOF CAP
GR-RTU-4	MAXITROL	325-5	2PSI	1PSI	7"WC	325	50	3/4"	RTU-4	5R WEATHER PROOF CAP
GR-UH1	MAXITROL	325-7A	2PSI	1PSI	7"WC	1250	50	1/2"	UH-1	5R WEATHER PROOF CAP
GR-UH2	MAXITROL	325-7A	2PSI	1PSI	7"WC	1250	50	3/4"	UH-2	5R WEATHER PROOF CAP
GR-WH	MAXITROL	325-5	2PSI	1PSI	7"WC	325	50	3/4"	WATER HEATER	5R WEATHER PROOF CAP

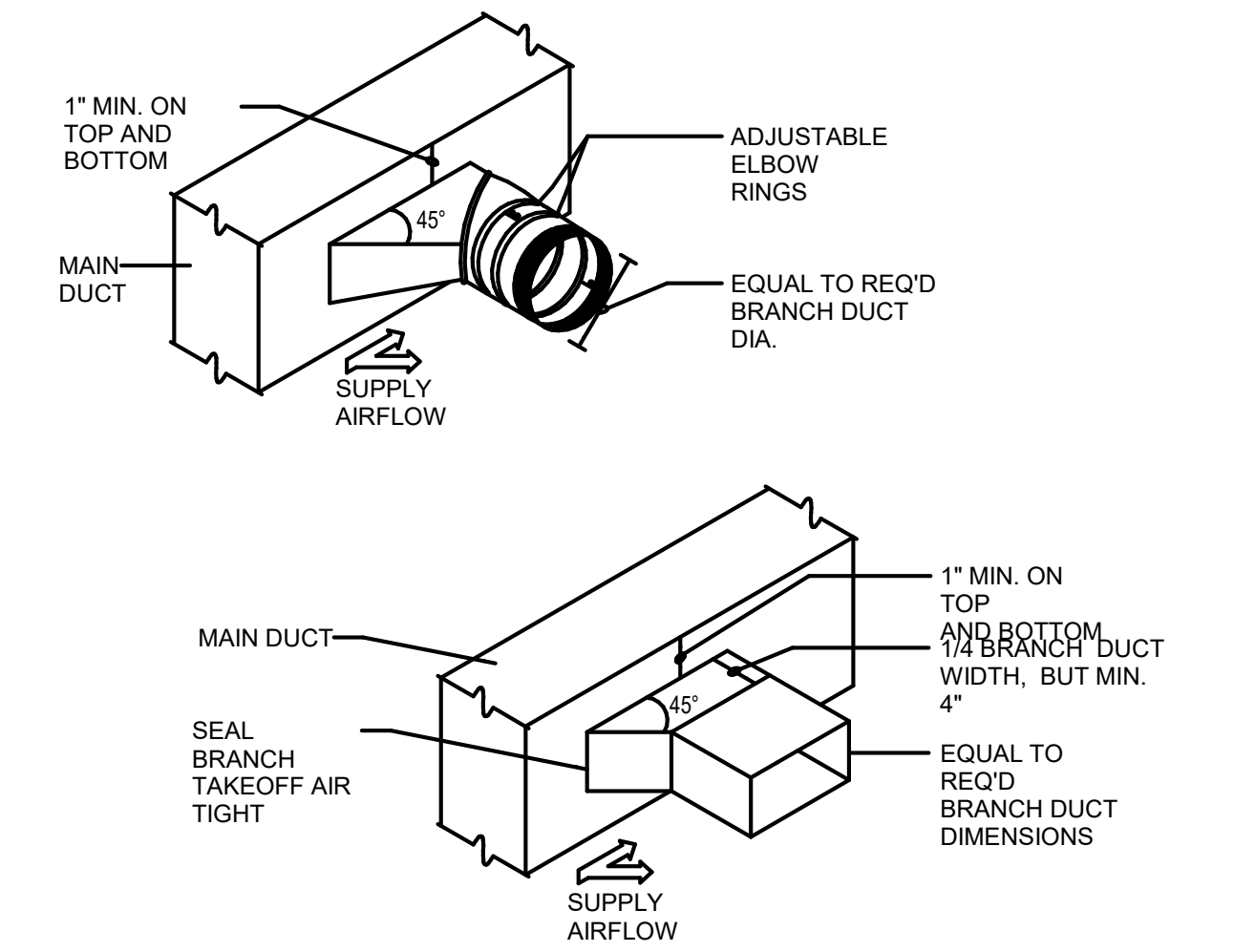
TAG	MANUFACTURER	MODEL	DESCRIPTION	PATTERN	FACE SIZE	Neck Size	MOUNTING	MATERIAL	FINISH	NOTES
A	PRICE	AMD	LOUVER FACE	2,3&4-WAY SEE PLANS	24" X 24"	<varies>	LAY-IN	ALUMINUM	WHITE	SUPPLY
A2	PRICE	PDDR	PERF RETURN USED FOR SUPPLY DIAMETER: 14	PERF	24" X 24" INSULATED BACK	14"Ø	LAY-IN	ALUMINUM	WHITE	PERF RETURN USED FOR SUPPLY NEAR HOODS. INSULATED BACK
A3	PRICE	PDDR	PERF RETURN USED FOR SUPPLY DIAMETER: 12	PERF	24" X 24" INSULATED BACK	12"Ø	LAY-IN	ALUMINUM	WHITE	PERF RETURN USED FOR SUPPLY NEAR HOODS. INSULATED BACK
B	PRICE	630	GRILLE	LOUVERED	32" X 22"	20"	LAY-IN	ALUMINUM	WHITE	RETURN GRILLE
C	PRICE	620-D	REGISTER	SEE PLAN	SEE PLAN	8"Ø	SURFACE	ALUMINUM	WHITE	SUPPLY W/OBD
D	PRICE	630	GRILLE	SEE PLAN	SEE PLAN	<varies>	SURFACE	ALUMINUM	WHITE	RETURN/EXHAUST



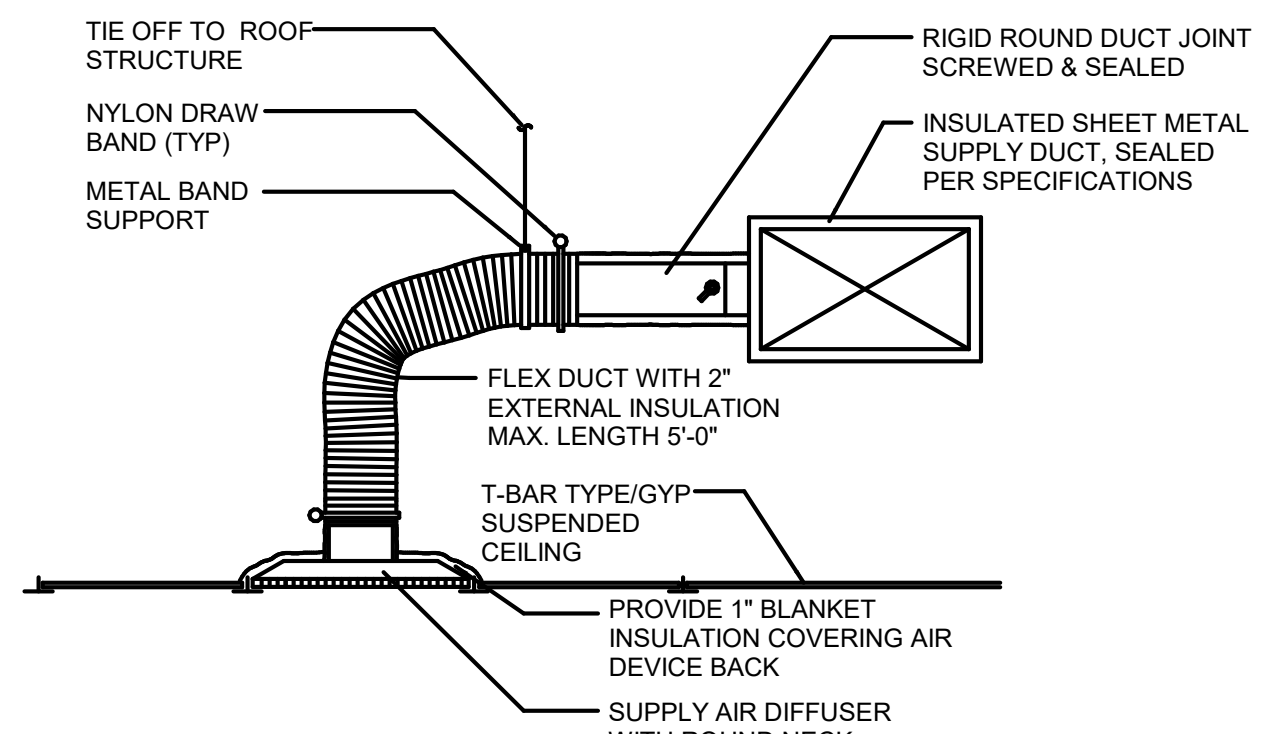
3 $1/4'' = 1'-0''$



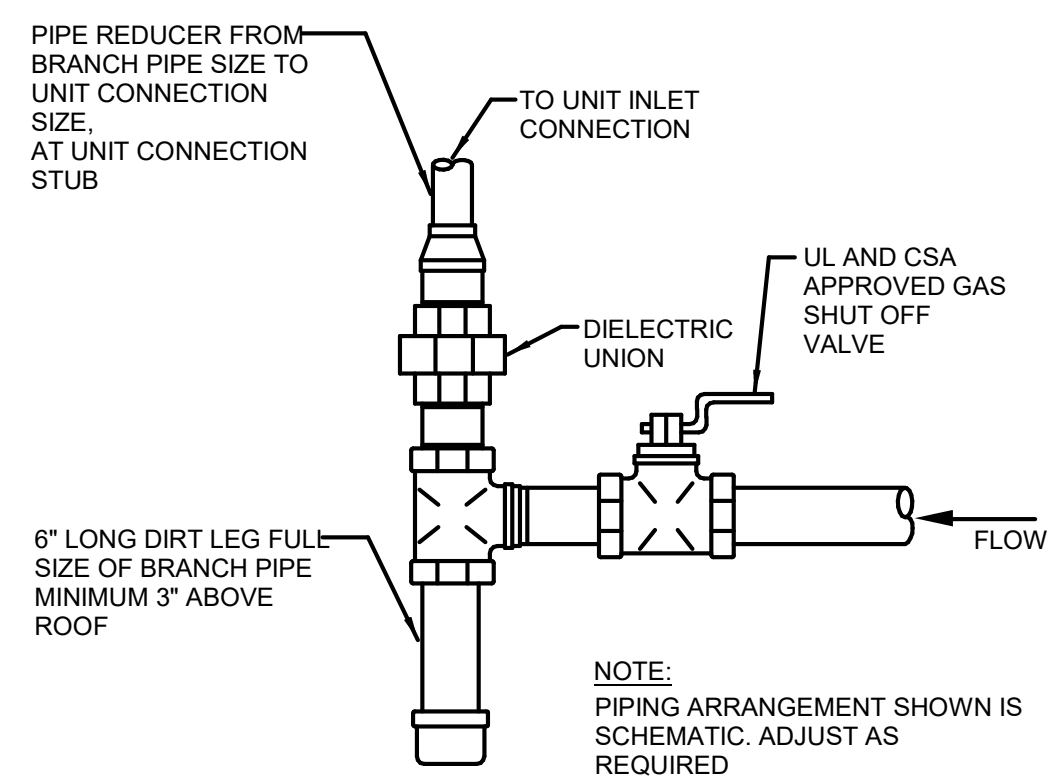
④ $1/4'' = 1'-0''$



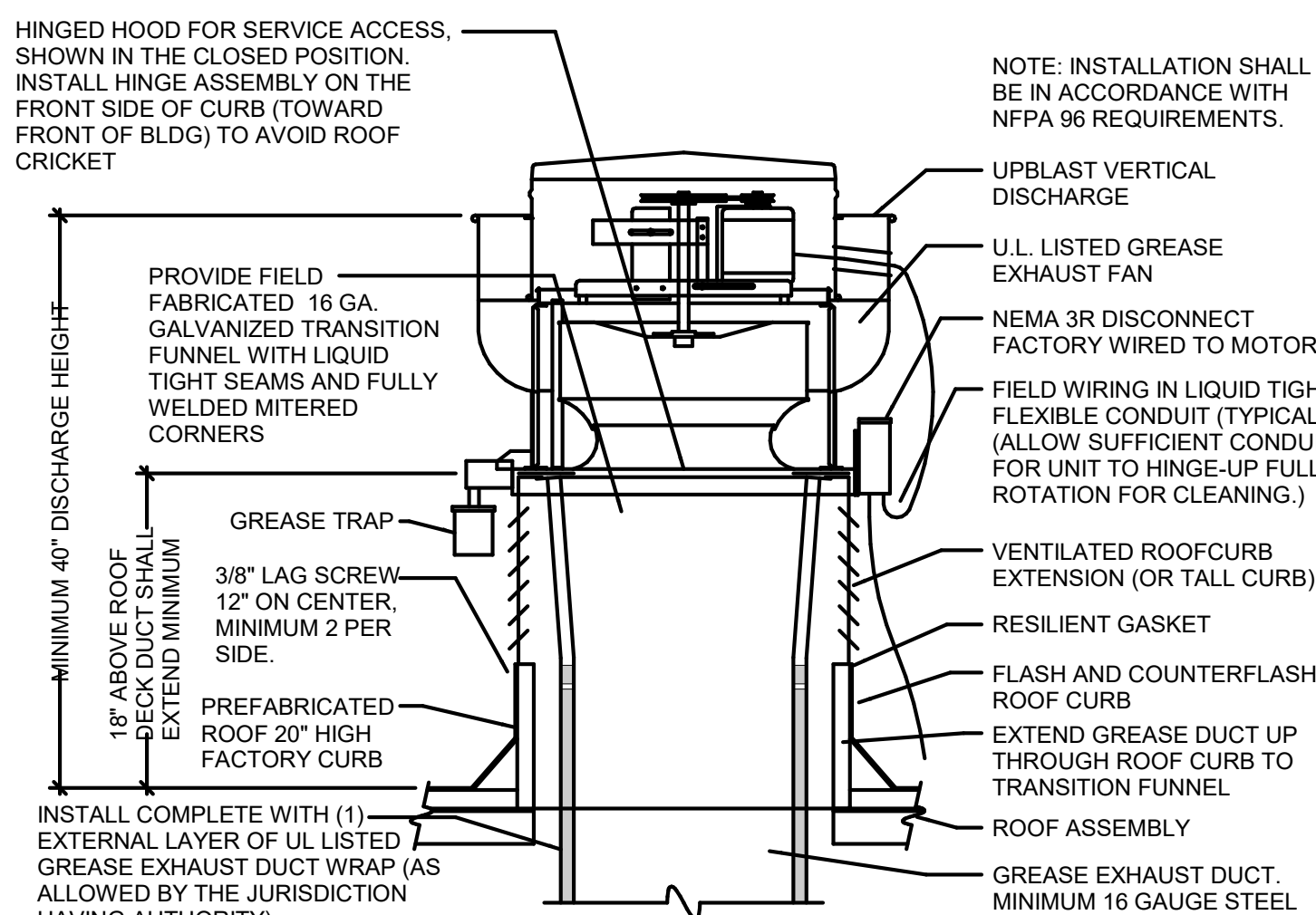
5 $1/4'' = 1'-0''$



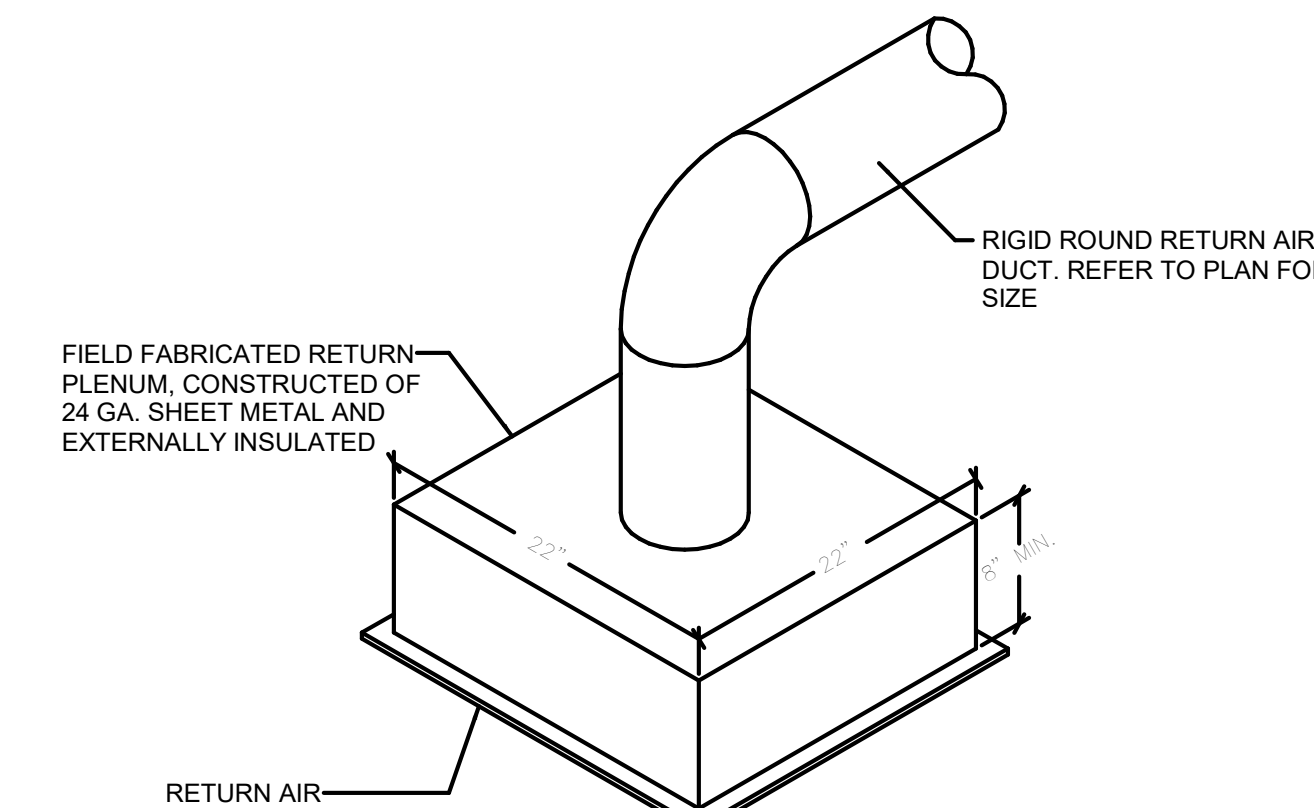
6 $1/4'' = 1'-0''$



7 $1/4" = 1'-0"$



8 $1/4" = 1'-0"$



9 $1/4" = 1'-0"$

ELECTRIC UNIT HEATER SCHEDULE											
TAG	QTY	MANUFACTURER	MODEL	STAGES	KW	TEMP RISE (F)	ELECTRIC		WEIGHT	AREA SERVED	REMARKS
							V/P/H	FLA			
EUH-1	1	QMARK	MUH-05-81	1	5		208/1/60	24	30	RISER ROOM	INTEGRAL T-STAD, AND WALL BRACKET

GAS UNIT HEATER SCHEDULE							
TAG	QTY	MANUFACTURER	MODEL	BTUH	WEIGHT	AREA SERVED	REMARKS
UH-1	5	Bromic Heating	PLATINUM SMART 500 SERIES -HEAT GAS	39.8	54	SEE PLANS	INTEGRAL T-STAT, AND CEILING BRACKET

DUCT SYSTEM TYPE	MATERIAL TYPE	INSULATION TYPE	PRESSURE CLASS
RTU-1, RTU-2, RECTANGULAR SUPPLY DUCT (KITCHEN)	GALVANIZED	FIBERGLASS WRAP 3/4" DENSITY (R-6 MINIMUM)	+ 2"
RTU-1-4 RECTANGULAR RETURN DUCT	GALVANIZED	1" x 1-1/2" LWR INSUL	- 2"
RTU-1, RTU-2, RTU-3 ROUND RETURN DUCT	GALVANIZED	UNINSULATED	- 2"
RTU-3 & 4 SUPPLY DUCT (DINING ROOMS)	GASKETED W/V CLAMP PROVIDED BY CAPTIVE AIRE INSTALLED BY M.C.	(SEE CAPTIVE AIRE PLANS)	+ 2"
RTU-1,2,3,4 ROUND SUPPLY DUCT ABOVE LAY-IN AND/OR GYP CEILING	GALVANIZED	FIBERGLASS WRAP 3/4" DENSITY (R-6 MINIMUM)	+ 2"
RECTANGULAR EXHAUST, EF-6 WHERE NOTED	GALVANIZED	1" x 1-1/2" LWR INSUL	- 1"
ROUND EXHAUST, EF-6	GALVANIZED	UNINSULATED	- 1"
KITCHEN EXHAUST (EF-1,2,3,4,5)	U.L. LISTED TYPE 1 DUCTWORK PROVIDED BY CAPTIVE AIRE INSTALLED BY MECH. CONTRACTOR	DOUBLE WALL PRE INSULATED (SEE CAPTIVE AIRE PLANS)	- 2"
ROUND FLEXIBLE	FLEXIBLE FLEXMASTER TYPE 3 OR EQUAL	INSULATED	+/- 1"

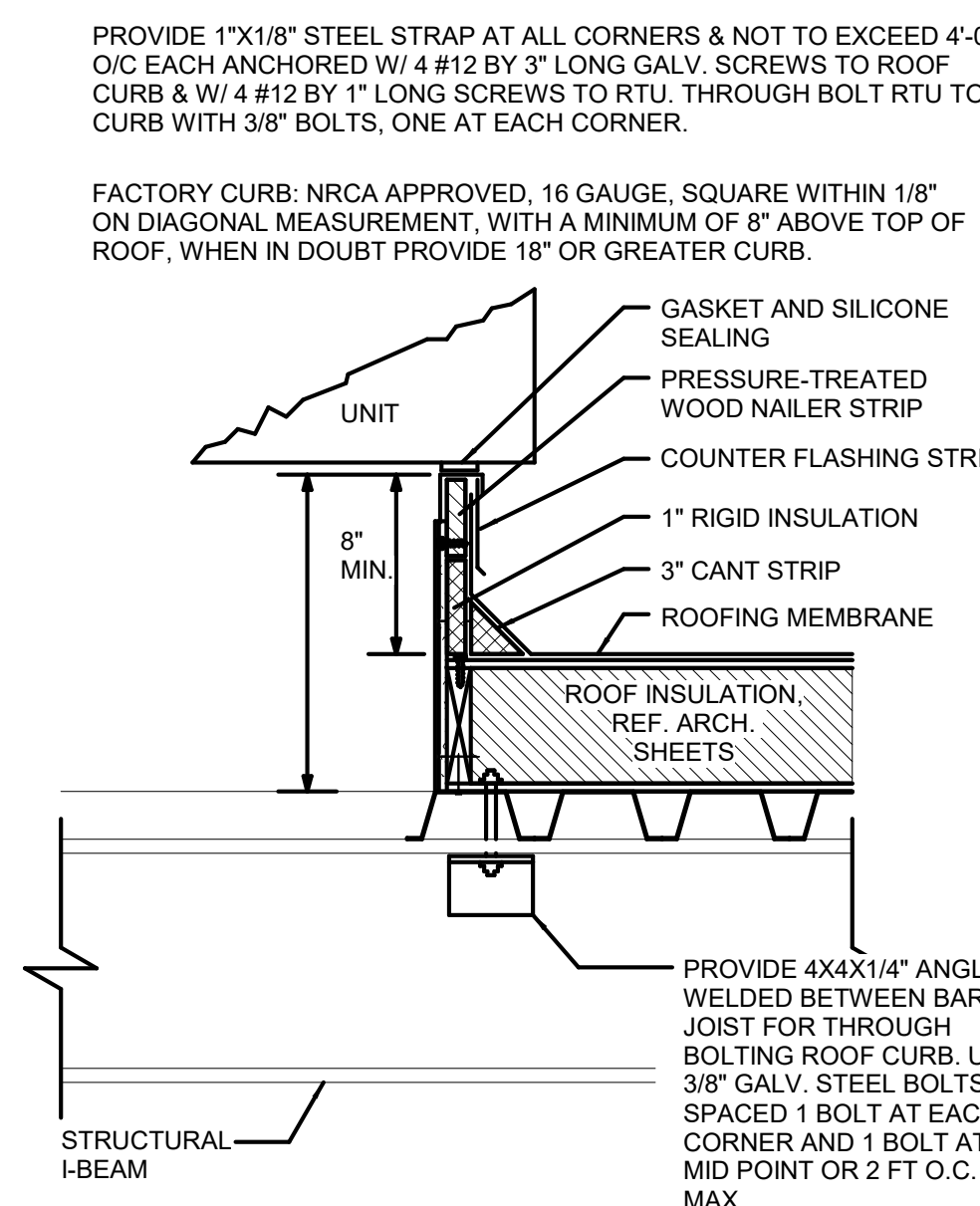
BUILDING PRESSURIZATION SCHEDULE		
EXHAUST AIR	SERVES	CFM
EF-1	HOOD #1	-1500
EF-2	HOOD #2	-1700
EF-3	HOOD #3	-2125
EF-4	HOOD #4	-2125
EF-5	HOOD #5	-2125
EF-6	TOILETS	-750
TOTAL EXHAUST		-8200
OUTDOOR AIR		
RTU-1	KITCHEN	+3100
RTU-2	KITCHEN	+3100
RTU-3	DINING, RESTROOM, DISH	+1300
RTU-4	DINING INTERIOR	+1300
TOTAL OUTDOOR AIR		+8800
BALANCE		+600

MECHANICAL VENTILATION BY ZONE CLASSIFICATION												
OCCUPANCY CLASSIFICATION	CONDITION AREA (SQFT)	CFM PER SQFT	MIN CFM BY AREA	OCCUPANT DENSITY (#/1000 SQFT)	OCCUPANTS	CFM PER OCCUPANT	MIN CFM BY OCCUPANT	TOTAL CFM	EFFECTIVENESS CFM (Eq=0.8)	EXHAUST RATE (CFM PER FIXTURE/SQFT)	FIXTURES	MIN EXHAUST CFM
SALES	1150	0.12	138	15	18	7.5	135	273	341	0.0	0	0
STORAGE	898	0.12	108	0	0	0.0	0	108	135	0.0	0	0
OFFICE	63	0.06	4	5	1	5.0	5	9	11	0.0	0	0
PREP AREA	458	0.18	82	10	5	5.0	25	107	134	0.0	0	0
KITCHEN	1302	0.12	156	20	27	7.5	203	359	448	0.7	0	912
CORRIDOR	121	0.06	7	0	0	0.0	0	7	9	0.0	0	0
DINING ROOM	1417	0.18	255	70	100	7.5	750	1005	1256	0.0	0	0
RESTROOM - LIGHT USE	371	0.00	0	0	0	0.0	0	0	0	50.0	6	300
TOTALS	5780	-	751	-	151	-	1118	1868	2335	-	-	1212

NOTES:

1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION INCLUDING PROVIDING THE ROOF PENETRATION, ROOF JACK, FLASHING AND COUNTER-FLASHING FOR A WEATHER TIGHT SEAL.
2. MECHANICAL CONTRACTOR SHALL INSTALL THE REFRIGERANT PIPING AND INSULATION, AND COORDINATE WORK WITH THE GENERAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL INSTALL THE POWER CONDUIT, AND COORDINATE WORK WITH THE GENERAL CONTRACTOR.

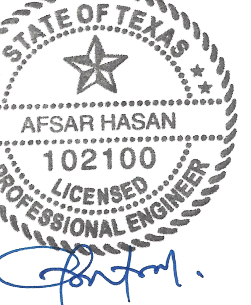
HORIZONTAL DUCT RUNS SHALL BE PITCHED TO DRAIN BACK TO HOOD A MINIMUM OF 1/4" PER FT FOR DUCT RUNS OF LESS THAN 75FT.



10 $1/4" = 1'-0"$



L: _____

PE FIRM REGISTRATION
5-0000

08/22/2024

CONSULTANT:

755 SANDHILL ROAD
LLAS, TEXAS 75238
214-343-9400
ensiongroup.com



PORTILLO'S RESTAURANT PROTOTYPE

RESTAURANT
STORE #: 24002

SW CORNER OF WARRIOR TRL & HWY 161
GRAND PRAIRIE, TX 75052

DESCRIPTION	Issued by

DESCRIPTION

DATE: 08.22.2024

BY:

SUBJECT #:

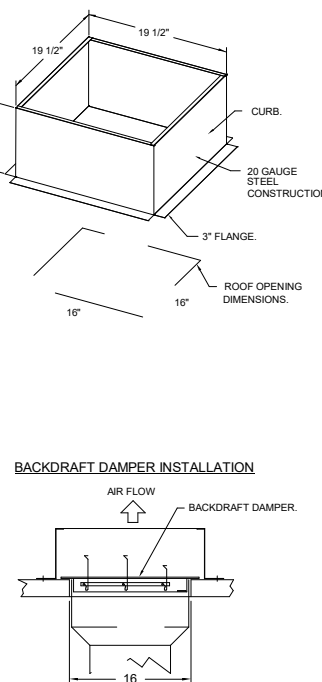
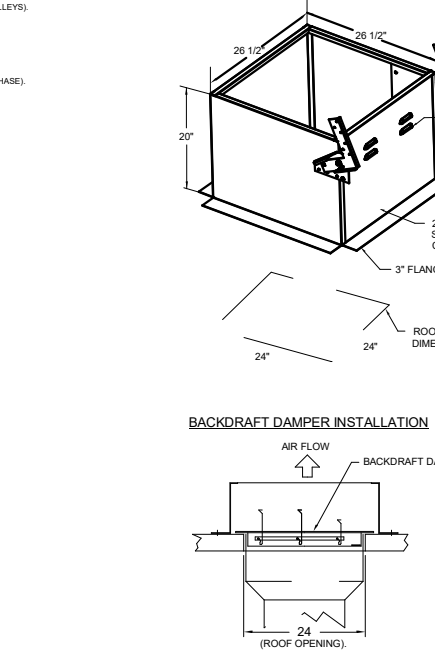
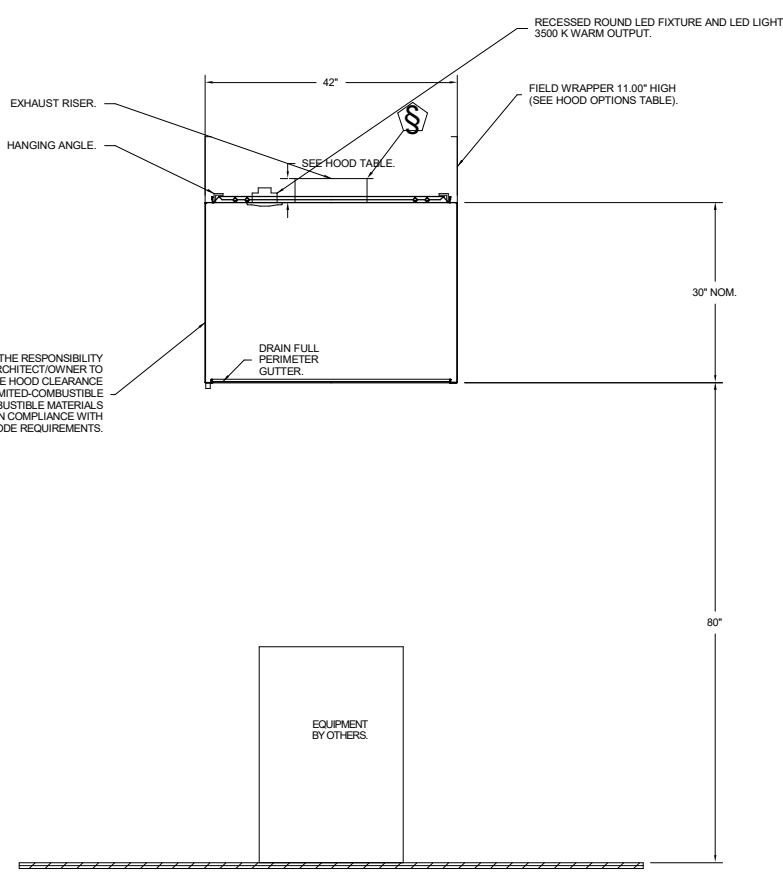
PHD2400

ET TITLE:

PTIVE AIRE

ET NUMBER

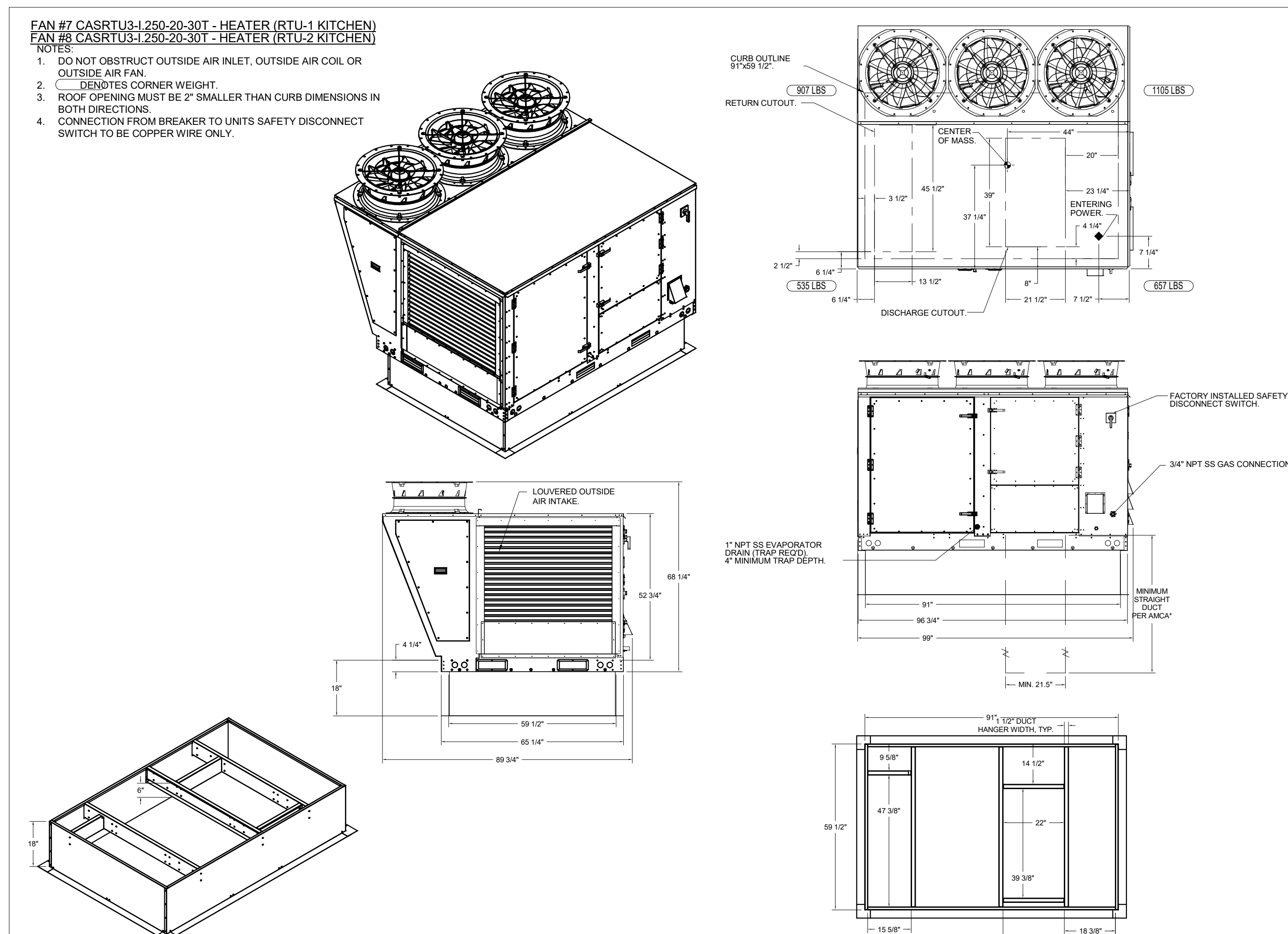
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2/27/2024	66-3986	PORTILLOS, GRAND PRAIRIE	  MISSOURI Specialized Accounts 2015 Commerce Ave. • St. Louis, MO 63103 • (314) 616-1233 • mdot.mo.gov
66-3986	WARRIOR TRAIL & HWY 161		
SJDJR	GRAND PRAIRIE, TX, 75052		
66-3986			
MASTER DRIVER			

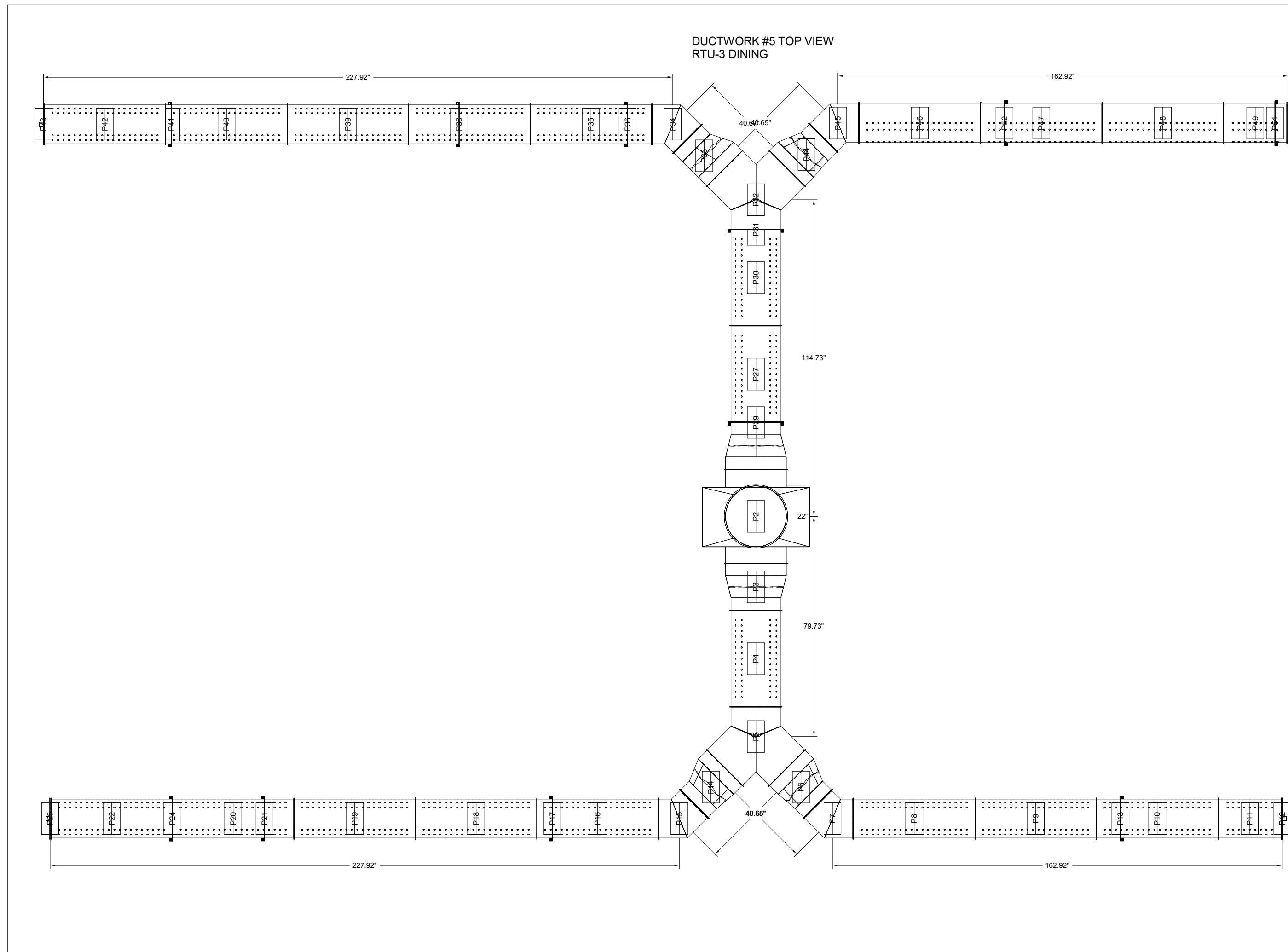
PORTILLO'S GRAND PRAIRIE WARRIOR TRAIL & HWY 161 GRAND PRAIRIE, TX, 75052	2/27/2024 66439586 SUDOR 3/4" = MASTER DRAWING	CAPTIVE  INSURE National Specialty Accounts 10000 West Loop East, Suite 1000 Houston, TX 77036 Tel: 281.414.1000 Fax: 281.414.1001 www.captiveinsure.com	2025
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	PORTELLO'S GRAND PRAIRIE WARRIOR TRAIL & HWY 161 GRAND PRAIRIE, TX, 75052	CAPTIVE INSURE National Specialist Accounts		2025-2026 © 2025 Captive Insurance Agency, Inc. All rights reserved. AIA, NAAB and ISO are registered trademarks.
2/23/2024	55639555			
SUBSR				
544' -"				
MASTER DRAWING				



	PORTELLO'S GRAND PRAIRIE WARRIOR TRAIL & HWY 161 GRAND PRAIRIE, TX, 75052	CAPTIVEURE Missouri Specialized Accounts 3935 Lockwood Ave., Hwy. A, Lees Summit, MO 64080-2030, USA Tel: 816-221-1100 Fax: 816-221-1101 Email: info@captiveure.com	2/23/2024 566-3309 3J0R 34"x7" MASTER DRAWING	2/23/2024 2/23/2024 2/23/2024 2/23/2024
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	PORTELLO'S GRAND PRAIRIE WARRIOR TRAIL & HWY 161 GRAND PRAIRIE, TX, 75052	CAPTIVE National Specialist Accounts P.O. Box 9800 • Dallas, Texas 75209-0800 • 800-451-7222 • captives@captivemag.com	
DATE ORDERED	2/23/2004	55639555	
SUBJECT	JAN -		
MASTER DRAWING			

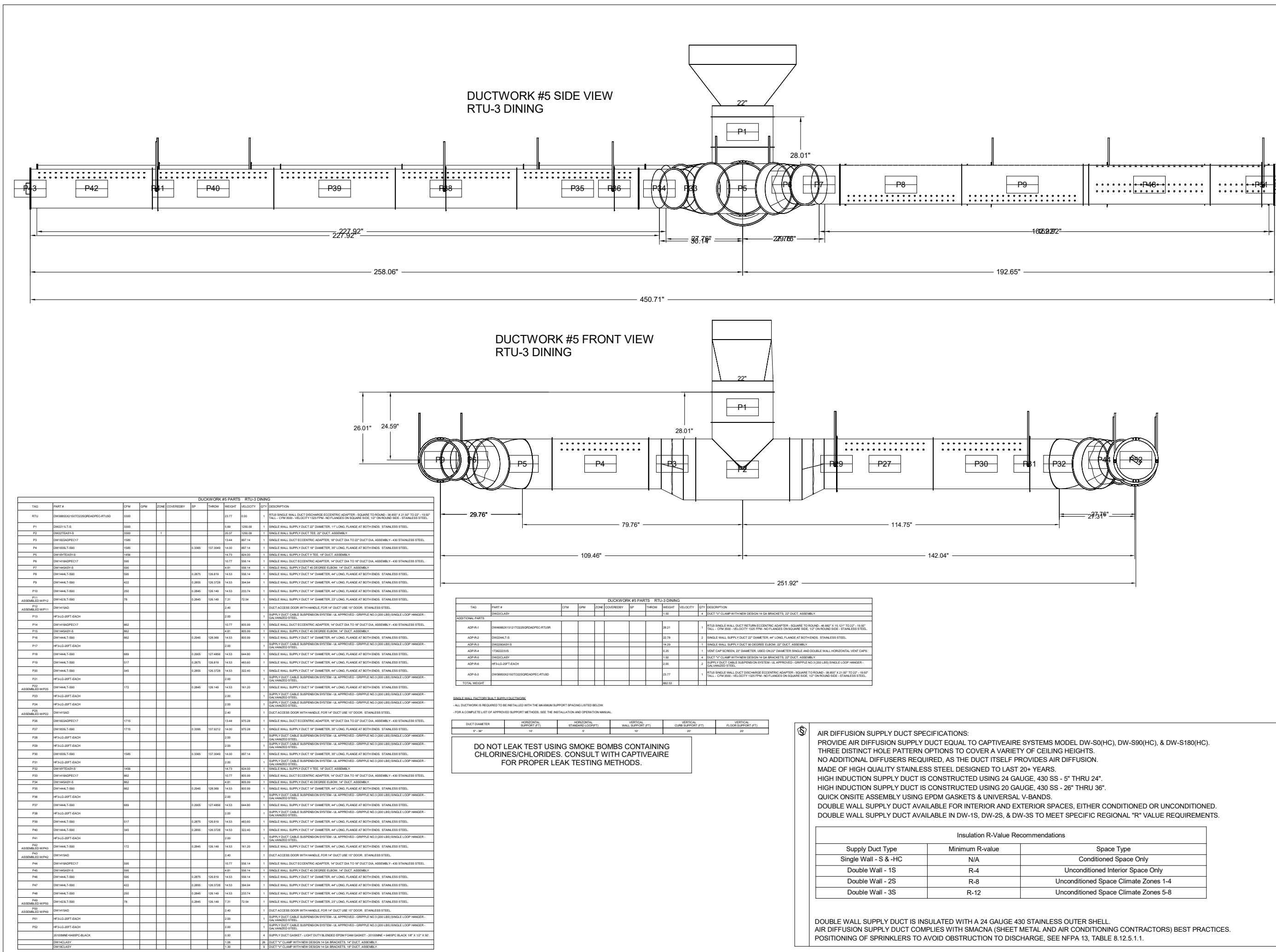


PORTILLO'S GRAND PRAIRIE
WARRIOR TRAIL & HWY 161
GRAND PRAIRIE, TX, 75052

3/27/2024

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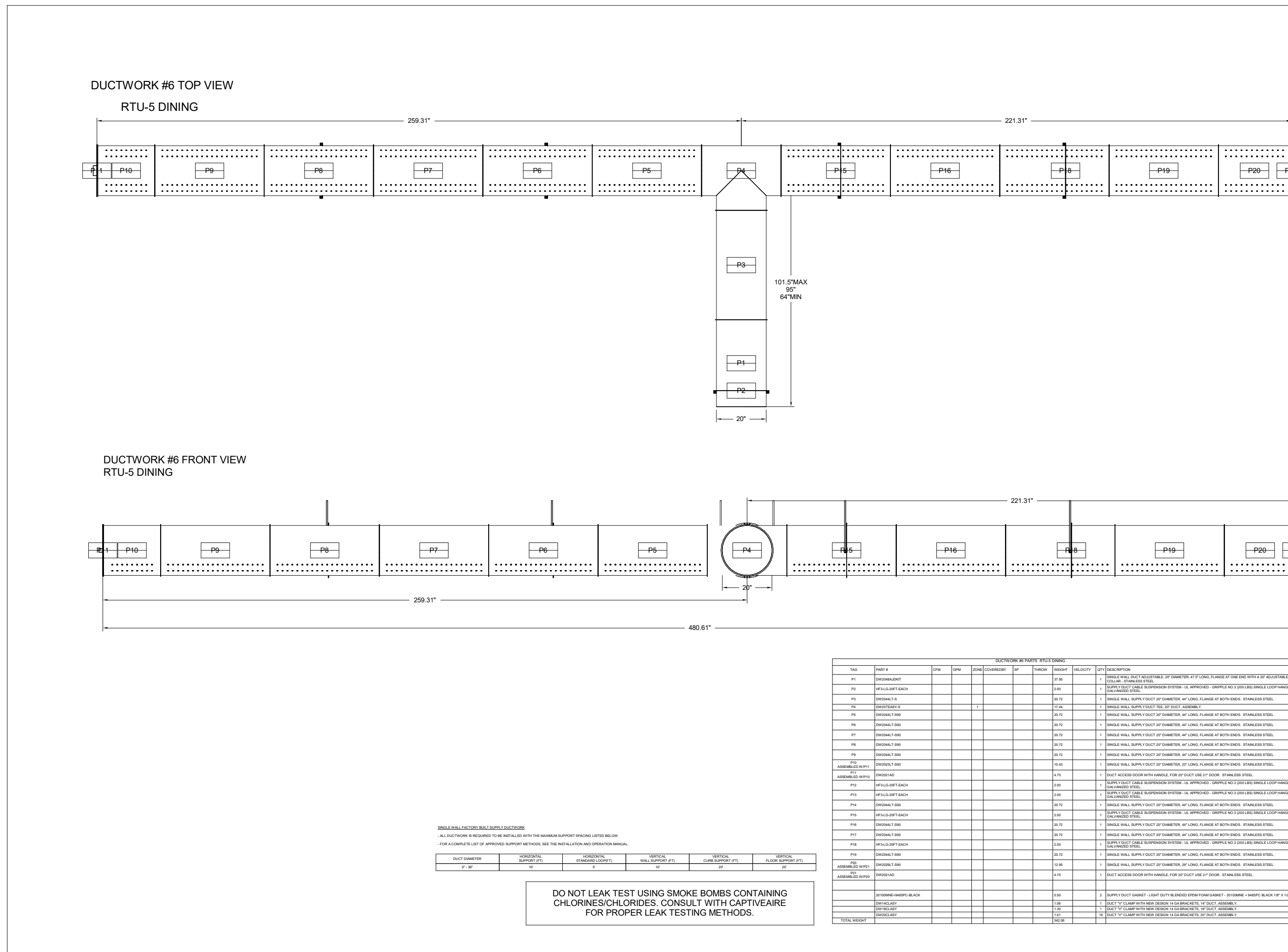


NO.	SIZE	LENGTH	WEIGHT	NOTE
1	18"	100.00'	100.00	18" DIA. DUCT
2	24"	100.00'	100.00	24" DIA. DUCT
3	30"	100.00'	100.00	30" DIA. DUCT
4	36"	100.00'	100.00	36" DIA. DUCT

DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINE/CHLORIDES. CONSULT WITH CAPTIVEAIR FOR PROPER LEAK TESTING METHODS.

Supply Duct Type	Minimum Spacing	Splice Type
Single Wall - 18" & 24"	N/A	Conditioned Space Only
Double Wall - 30"	R-4	Unconditioned Interior Space Only
Double Wall - 36"	R-6	Unconditioned Interior Space Only
Double Wall - 48"	R-12	Unconditioned Interior Space Only

DOUBLE WALL SUPPLY DUCT IS INSULATED WITH A 24 GAUGE 430 STAINLESS STEEL OUTER SHELL. AIR DIFFUSION SUPPLY DUCT COMPLETES WITH RADIANT HEAT METAL AND AIR-CONDITIONING CONTRACTORS BEST PRACTICES. POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTION TO DISCHARGE. SEE NFPA 13, TABLE 8.12.5.1.1.



DUCTWORK #6 FRONT VIEW
RTU-5 DINING

NO.	SIZE	LENGTH	WEIGHT	NOTE
1	18"	100.00'	100.00	18" DIA. DUCT
2	24"	100.00'	100.00	24" DIA. DUCT
3	30"	100.00'	100.00	30" DIA. DUCT
4	36"	100.00'	100.00	36" DIA. DUCT

NO.	SIZE	LENGTH	WEIGHT	NOTE
1	18"	100.00'	100.00	18" DIA. DUCT
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DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINE/CHLORIDES. CONSULT WITH CAPTIVEAIR FOR PROPER LEAK TESTING METHODS.

PORTILLO'S GRAND PRAIRIE
WARRIOR TRAIL & HWY 161
GRAND PRAIRIE, TX, 75052

3/27/2024

8643988
SUSR

MASTER DRAWING