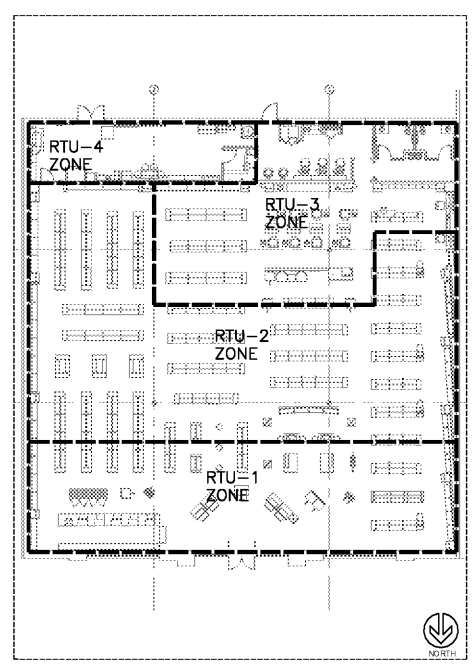
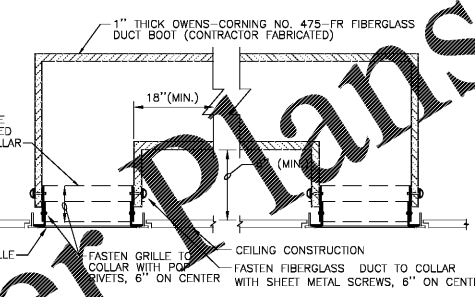


REVISION	DATE
LL & LTA REVIEW	06/03/19
BO ISSUE	06/03/19
PERM ISSUE	06/04/19

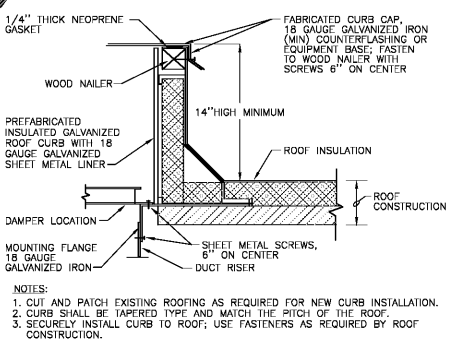
robot g-lyon + associates, inc.
11400 S. WILSON ROAD, SUITE 115
MADISON, AL 37055
5100 River Road, Ste 125
Schiller Park, IL 60176
P: 847.671.1422
F: 847.671.4200
www.rgla.com



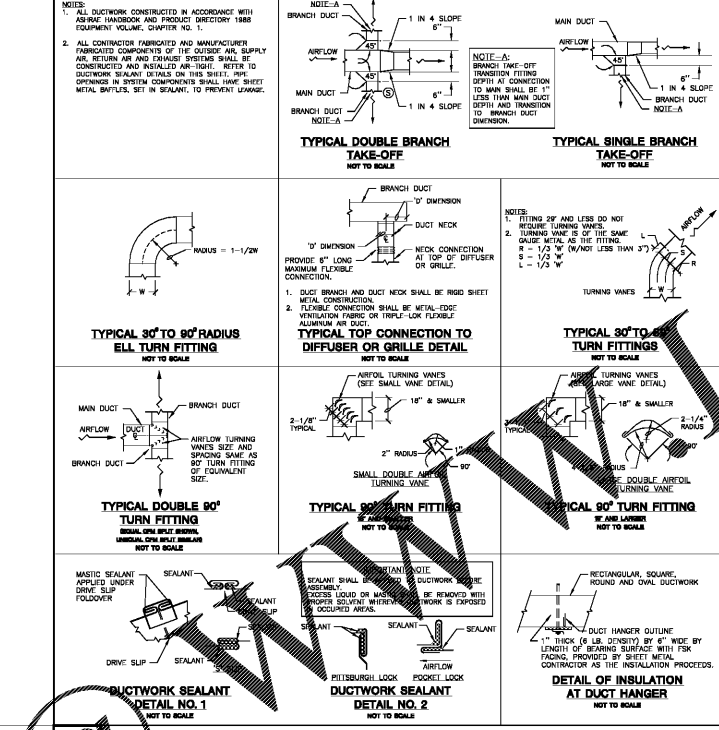
6 RTU ZONES
SCALE: NOT TO SCALE



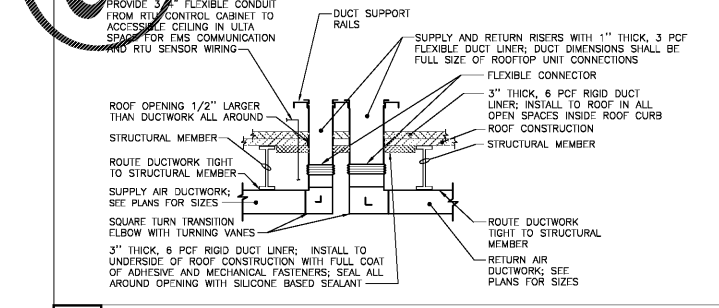
7 TYPICAL RETURN TRANSFER DETAIL
SCALE: NOT TO SCALE



8 TYPICAL PREFABRICATED EF ROOF CURB DETAIL
SCALE: NOT TO SCALE



4 DUCTWORK DETAILS
SCALE: NOT TO SCALE

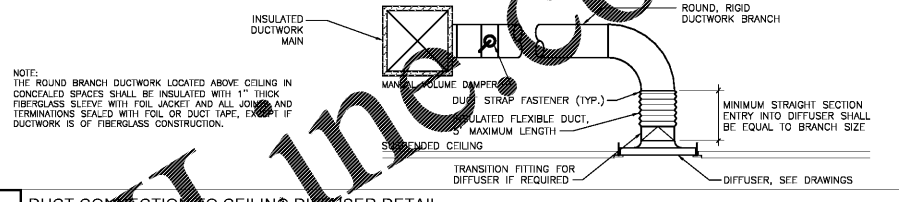


5 ROOFTOP UNIT DUCT DROP DETAIL
SCALE: NOT TO SCALE

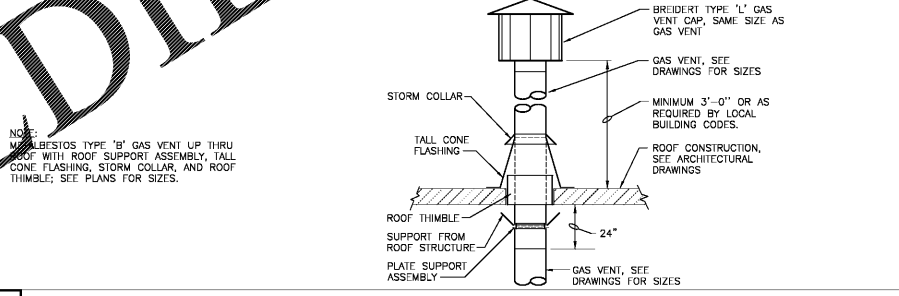
ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER AND MODEL	STATUS	NOMINAL TONS	SUPPLY CFM	MIN. COOLING CAPACITY (T)	ESP (IN)	COOLING CAPACITY		HEATING CAP.		ELECTRICAL		APPROX. WEIGHT (LBS)	REMARKS							
							(DB/MB)	(MBH)	(MBH)	(MBH)	MIN. NUMBER OF STAGES	SUPPLY FAN HP			VOLTS	MCA	MOCP	EEER			
RTU-1	LENNOX LQH1224E	NEW	10	3,200	1,000	1.00	78.485	107	69.8	180	144	0.8	2	3.75	3	480	28	35	13.1	1,470	SEE NOTES FOR OPTIONS
RTU-2	LENNOX LQH1224E	NEW	10	3,510	910	1.00	78.184	115	78.5	130	104	0.8	2	3.75	3	480	28	35	13.1	1,470	SEE NOTES FOR OPTIONS
RTU-3	LENNOX LQH1224E	NEW	10	3,200	800	1.00	77.954	116.0	75.9	130	104	0.8	2	3.75	3	480	28	35	13.1	1,470	SEE NOTES FOR OPTIONS
RTU-4	LENNOX LQH1224E	NEW	4	1,600	200	1.00	78.062	46.2	38.9	50	56	0.8	2	0.75	3	480	15	20	14	1,000	SEE NOTES FOR OPTIONS

1 HVAC SCHEDULES
SCALE: NOT TO SCALE



3 DUCT CONNECTION TO CEILING DIFFUSER DETAIL
SCALE: NOT TO SCALE



2 TYPICAL GAS VENT THRU ROOF DETAIL
SCALE: NOT TO SCALE

FAN SCHEDULE

MARK	MANUFACTURER MODEL NO.	TYPE	CFM	ESP (IN)	DRIVE	ELECTRICAL (W, V, C)	HP / WATTS	PHASE	VOLTAGE	ROOF CURB	BACKDRAFT DAMPER	NOTES
EF-1	LOREN COOK 150ACEB	ROOF MOUNTED	1,750	0.5	BELT	1/2 HP 1 115	14" HIGH	GRAVITY	NONE	14" HIGH	GRAVITY	FURNISH AND INSTALL ROOF MOUNTED EXHAUST FAN WITH BIRDSCREEN
EF-2	LOREN COOK GN-720	IN-LINE	300	0.6	DIRECT	3/23 WATTS 1 115	NONE	INTEGRAL	NONE	NONE	INTEGRAL	PROVIDE FAN SPEED CONTROLLER

NOTE: EF-1 TO BE CONTROLLED BY EMS SYSTEM VIA CONTROLLABLE BREAKER. PROVIDE BURGLAR BARS AT ROOF PENETRATION FOR EF-1.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	SERVICE	MODULE	TYPE	MOUNTING LOCATION	FASTENING	MOUNTING FRAME	MATERIAL	FINISH	MFGR	MODEL	NOTES
SD-1	SUPPLY	24" x 24"	PLAQUE FACE	CEILING	LAY-IN	TYPE 3	ALUMINUM	#26-WHITE	TITUS	GMN-AAA	SEE PLAN FOR NECK SIZE
SD-2	SUPPLY	24" x 12"	PLAQUE FACE	CEILING	LAY-IN	TYPE 3	ALUMINUM	#26-WHITE	TITUS	GMN-AAA	SEE PLAN FOR NECK SIZE
SD-3	SUPPLY	24" x 12"	PLAQUE FACE	CEILING	SCREW	TYPE 1	ALUMINUM	#26-WHITE	TITUS	GMN-AAA	PROVIDE PFA MOUNTING FRAME FOR GYP. CEILING
SD-6	SUPPLY	20" x 6"	LOWEDED	DUCT	SCREW	---	ALUMINUM	#26-WHITE	TITUS	S300FS JOCASO	PROVIDE VOLUME DAMPER
RG-1	RETURN	12" x 12"	PARALLEL BLADE	CEILING	LAY-IN	TYPE 3	ALUMINUM	#26-WHITE	TITUS	365-FL	SEE PLAN FOR NECK SIZE
RG-2	RETURN	24" x 12"	PARALLEL BLADE	CEILING	SCREW	TYPE 1	ALUMINUM	#26-WHITE	TITUS	365-FL	PROVIDE PFA MOUNTING FRAME FOR GYP. CEILING - FULL FACE
EAG-1	EXHAUST	12" x 12"	PARALLEL BLADE	CEILING	LAY-IN	TYPE 3	ALUMINUM	#26-WHITE	TITUS	365-FL	SEE PLAN FOR NECK SIZE
EAG-2	EXHAUST	24" x 12"	PARALLEL BLADE	CEILING	SCREW	TYPE 1	ALUMINUM	#26-WHITE	TITUS	365-FL	PROVIDE PFA MOUNTING FRAME FOR GYP. CEILING - FULL FACE
EAG-3	EXHAUST	24" x 24"	PARALLEL BLADE	CEILING	SCREW	TYPE 1	ALUMINUM	#26-WHITE	TITUS	365-FL	PROVIDE PFA MOUNTING FRAME FOR GYP. CEILING - FULL FACE
TG-1	TRANSFER	24" x 12"	PARALLEL BLADE	CEILING	LAY-IN	TYPE 3	ALUMINUM	#26-WHITE	TITUS	365-FL	SEE PLAN FOR NECK SIZE
TG-2	TRANSFER	24" x 24"	PARALLEL BLADE	CEILING	SCREW	TYPE 1	ALUMINUM	#26-WHITE	TITUS	365-FL	PROVIDE PFA MOUNTING FRAME FOR GYP. CEILING - FULL FACE

NOTES: PROVIDE FITTINGS AS NECESSARY TO CONNECT DUCTWORK TO AIR DEVICE. INSULATE TOP OF SUPPLY AIR DEVICE WHEN REQUIRED BY AHJ.

ROOFTOP UNIT SCHEDULE

MARK	MANUFACTURER AND MODEL	STATUS	NOMINAL TONS	SUPPLY CFM	MIN. COOLING CAPACITY (T)	ESP (IN)	COOLING CAPACITY		HEATING CAP.		ELECTRICAL		APPROX. WEIGHT (LBS)	REMARKS							
							(DB/MB)	(MBH)	(MBH)	(MBH)	MIN. NUMBER OF STAGES	SUPPLY FAN HP			VOLTS	MCA	MOCP	EEER			
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RTU-2	LENNOX LQH1224E	NEW	10	3,510	910	1.00	78.184	115	78.5	130	104	0.8	2	3.75	3	480	28	35	13.1	1,470	SEE NOTES FOR OPTIONS
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RTU-4	LENNOX LQH1224E	NEW	4	1,600	200	1.00	78.062	46.2	38.9	50	56	0.8	2	0.75	3	480	15	20	14	1,000	SEE NOTES FOR OPTIONS

1 HVAC SCHEDULES
SCALE: NOT TO SCALE

MECHANICAL SCHEDULES AND DETAILS

ULTA BEAUTY
ULTA #613
SHOPPES OF MADISON
8201 HIGHWAY 72 WEST
SUITE C
MADISON, AL 37378

HENDERSON ENGINEERS
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