

1 OVERALL MECHANICAL HVAC PLAN

M1 SCALE: 1/8" = 1'-0"

- ALL RTUS SHALL BE LABELED WITH THEIR RESPECTIVE UNIT TAGS (RTU-1, RTU-2, ETC.). THESE LABELS SHALL BE STENCILED IN LETTERS AT LEAST 6" HIGH ON TWO OPPOSITE SIDES OF EACH RTU, IN A BLACK WEATHERPROOF EPOXY BASED PAINT.
- PROVIDE PVC CONDENSATE DRAINS WITH P-TRAPS, AT EACH RTU. THE DRAINS SHALL BE FULL UNIT SIZE AND SHALL SPILL ON TO A SPLASH BLOCK. THIS CONTRACTOR SHALL PROVIDE THE SPLASH BLOCKS. THE P-TRAPS SHALL BE MADE FROM SCHEDULE 40 PVC ELBOW AND TEE FITTINGS AND NOT FROM BENT PIPE.
- ALL RTU'S SHALL BE SECURED TO THEIR RESPECTIVE EQUIPMENT CURBS WITH BOLTED STRAPS OR OTHER TIE DOWN METHODS TO INSURE UNITS ARE SECURELY ANCHORED.

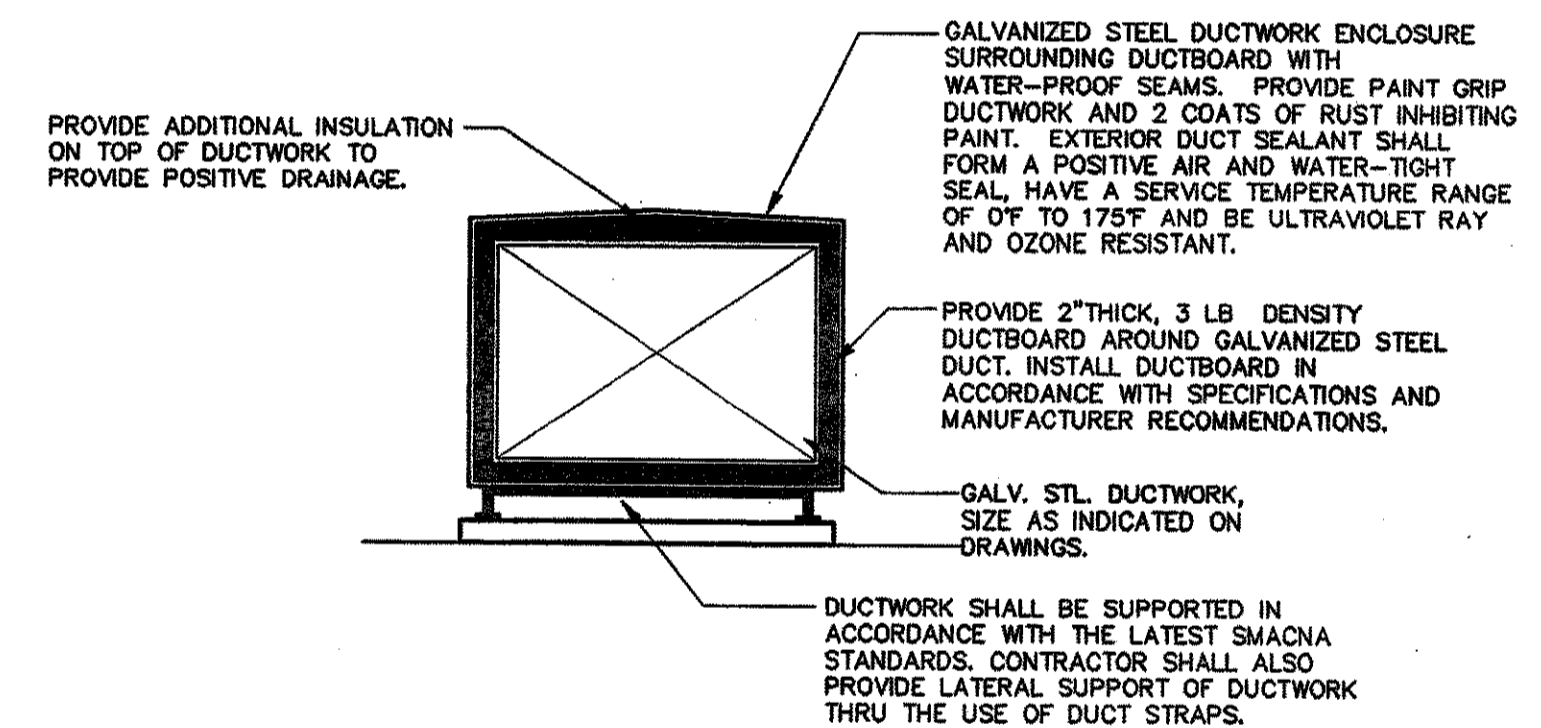
2 RTU NOTES

M1 NO SCALE

WALL LOUVER SCHEDULE							
MARK	TYPE	LOUVER SIZE		MIN. FREE AREA SQ. FT.	DAMPER TYPE	BASIS OF DESIGN	REMARKS
		WIDTH	HEIGHT				
WL-1	WIND DRIVEN RAIN RESISTANT LOUVER	42"	42"	5.22	GRAVITY BACKDRAFT	RUSKIN EME 520 DD	①②③

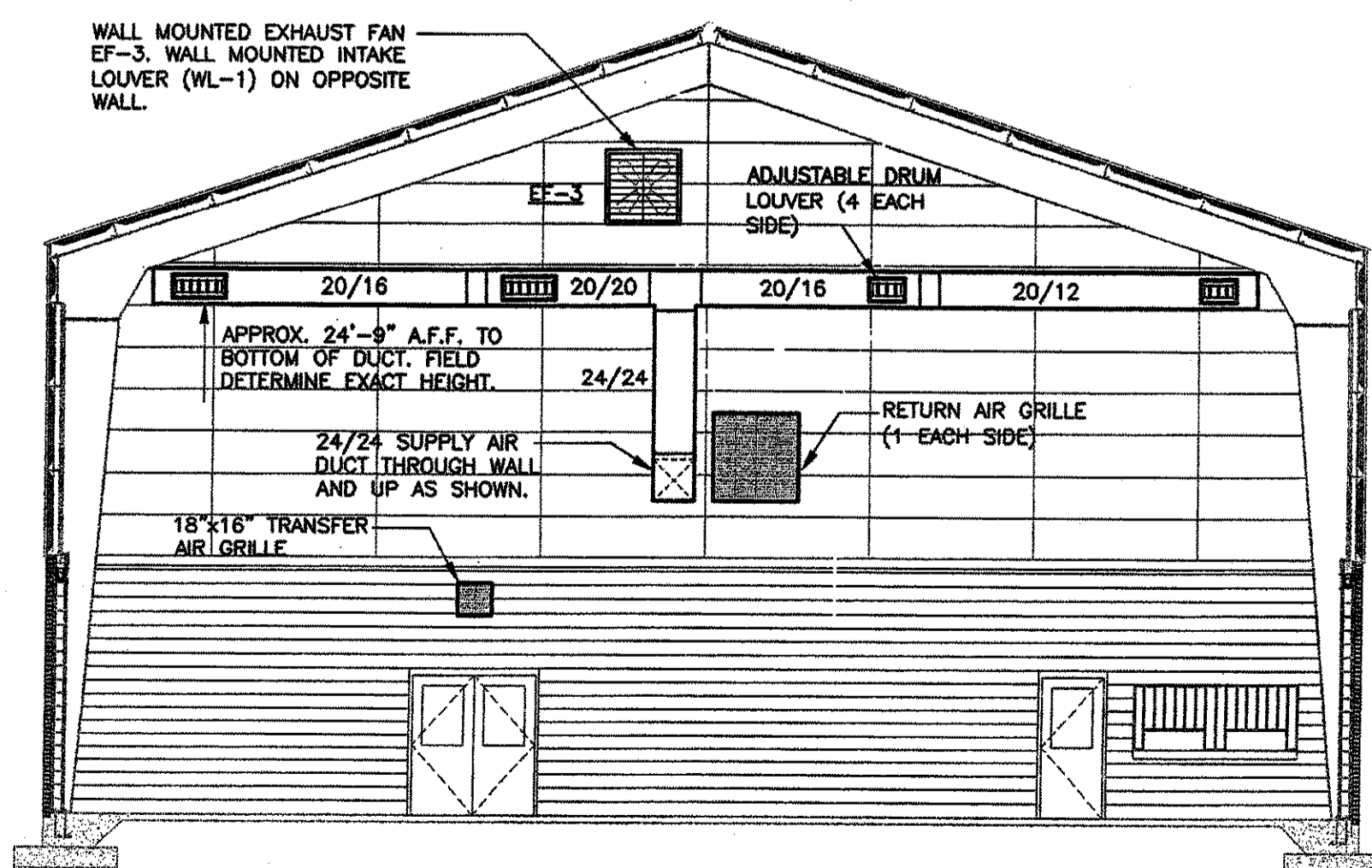
WALL LOUVER NOTES:

- PROVIDE WITH FACTORY BAKED ENAMEL FINISH, COLOR AS DIRECTED BY ARCHITECT.
- PROVIDE WITH FLATENED ALUMINUM BIRDSCREEN IN REMOVABLE FRAME.
- INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.



4 EXTERIOR DUCTWORK DETAIL

M1 NOT TO SCALE



3 EAST GYM WALL DUCT ELEVATION

M1 SCALE: 1/8" = 1'-0" WEST ELEVATION SIMILAR.

AIR CONDITIONING UNIT SCHEDULE																											
MARK	AREA SERVED	TOTAL SUPPLY AIR	MIN OA	ESP IN WG	EVAP MOTOR QTY HP	FILTERS	COOLING DATA						COND. FAN DATA		HEATING DATA			UNIT ELECTRICAL DATA		BASIS OF DESIGN	UNIT WEIGHT	REMARKS					
							QTY	SHR	EDB	EWB	EER	QTY (EACH)	QTY (EACH)	QTY (EACH)	QTY (EACH)	TYPE	KW	STAGES	V/Ø/HZ				MCA	MOCF			
RTU-1	GYM	5500	1000	0.9	1	3	PLEATED 2" TWAY	184	-	80	67	12.6	2	8.6	14.9	2	.50	1.6	ELEC. STRIP	36	2	480/3/60	61	70	TRANE TCH 180	2100 LBS.	①②③④ ⑤⑦
RTU-2	GYM	4600	900	0.9	1	3	PLEATED 2" TWAY	155	-	80	67	11.5	2	5.6	10.6	2	.50	1.6	ELEC. STRIP	36	2	480/3/60	61	70	TRANE TCH 150	2000 LBS.	①②③④ ⑤⑦
RTU-3	CON./LOBBY RESTROOMS	1200	100	0.7	1	1	PLEATED 2" TWAY	36	.76	80	67	13.0	1	2.7	5.1	1	.33	1.2	ELEC. STRIP	12	2	480/3/60	21.1	25	TRANE TSC 036	1100 LBS.	①②③④⑤⑥ ⑧⑨ ⑩⑫

RTU NOTES:

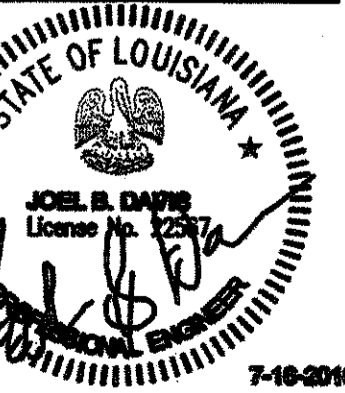
- ALL COOLING CAPACITIES SHOWN ARE MINIMUM REQUIRED AND ARE BASED ON AN AMBIENT OUTDOOR TEMPERATURE OF 95° F.
- CONTRACTOR SHALL INSTALL ALL NEW FILTERS PRIOR TO TEST AND BALANCE WORK.
- PROVIDE LOW AMBIENT COOLING CAPABILITY DOWN TO 20°F.
- PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTIES.
- PROVIDE THIS UNIT WITH MANUAL OUTSIDE AIR DAMPER AND WEATHERHOOD OPTION.
- ALL THESE UNITS SHALL USE 410A REFRIGERANT.
- THESE UNITS SHALL BE SIDE (HORIZONTAL) DISCHARGE UNITS, MOUNTED ON FACTORY MATCHED CURBS ON LOW ROOFS AS INDICATED, WITH SINGLE POINT ELECTRICAL CONNECTION.
- THIS RTU IS A STANDARD DOWNFLOW UNIT. PROVIDE WITH FACTORY MATCHED ROOF CURB AND SINGLE POINT ELECTRICAL CONNECTION.
- PROVIDE MATCHING PROGRAMMABLE THERMOSTAT FOR THIS RTU. THIS THERMOSTAT TO BE FOR HEATING AND COOLING AND SHALL COME WITH HEAT/COOL AUTO CHANGE OVER. PROVIDE WITH LOCKING COVER.
- PROVIDE THESE UNITS WITH "HOT GAS REHEAT" HUMIDITY CONTROL AND WITH MOTORIZED MODULATING OUTDOOR AIR DAMPER. PROVIDE MATCHING PROGRAMMABLE THERMOSTATS WITH HUMIDITY CONTROL CAPABILITY TO CONTROL THE HOT GAS REHEAT, AND PROVIDE CO₂ SENSOR IN RETURN AIR STREAM TO CONTROL OUTSIDE AIR QUANTITY.
- EQUALS BY CARRIER OR YORK ONLY.
- BASIS OF DESIGN IS LISTED FOR COORDINATION OF ELECTRICAL AND SPACIAL REQUIREMENTS. IF A DIFFERENT MAKE OR MODEL IS USED IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THE DESIGN FUNCTIONS AS INTENDED. ANY MODIFICATIONS REQUIRED AS A RESULT OF DIFFERENT MAKES OR MODELS BEING USED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

MULTI-PURPOSE BUILDING FOR
NORTHLAKE CHRISTIAN SCHOOL
 70104 WOLVERINE DRIVE
 COVINGTON, LOUISIANA 70433

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REVISIONS



FILE: 3316
 DATE: 07/16/10
 SHEET

M1

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 70104 WOLVERINE DRIVE
 COVINGTON, LOUISIANA 70433
 FILE: