

GENERAL NOTES: AIR DISTRUBITION

- CONTRACTOR RESPONSIBLE FOR LOCATING ALL HORIZONTAL UNITS CONCEALED ABOVE THE CEILING SO THAT ALL REQUIRED CLEARANCES ARE MAINTAINED AND COORDINATED WITH ALL TRADES. REFER TO INSTALLATION DETAILS ON SHEET M601. PROVIDE ACCESS DOOR IF REQUIRED.
- B, CONTRACTOR RESPONSIBLE FOR LOCATING ALL DAMPERS IN DUCTWORK SO THAT ACCESSIBILITY IS MAINTAINED, COORDINATE
- WITH CEILING SYSTEM. PROVIDE ACCESS DOOR IF REQUIRED. PROVIDE A HIGH EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER BRANCH RUNOUT, REFER

TO THE DETAIL ON SHEET M600 FOR SPECIFIC REQUIREMENTS.

- D. NO DUCTWORK TO BE ROUTED OVER ELECTRICAL PANELS/TRANSFORMERS. REFER TO ELECTRICAL PLANS FOR EQUIPMENT LOCATIONS.
- E. REFER TO VERTICAL UNIT INSTALLATION DETAIL ON SHEET M601 FOR SPECIFIC REQUIREMENTS.
- F. REFER TO EXHAUST/RETURN AIR CANOPY DETAIL ON SHEET M600
- FOR ADDITIONAL INFORMATION FOR E-6/R-6 GRILLES.
- M601 FOR SPECIFIC REQUIREMENTS. H. REFER TO OUTDOOR AIR SCHEDULE FOR REQUIRED CFM AND DUCT RUN-OUT SIZE FOR ALL OUTSIDE AIR DUCTWORK ROUTED
- MAINTAIN MANUFACTURERS RECOMMENDED SERVICE CLEARANCE FOR ALL VAV BOXES. REFER TO DETAIL ON SHEET M600 FOR ADDITIONAL INFORMATION.

## <u>KEYNOTES</u>

- PROVIDE 12" DEEP PLENUM FULL SIZE OF LOUVER. INTERNALLY LINE PLENUM WITH 1/2" ELASTOMERIC INSULATION. PROVIDE EXPANDED THROAT TAP AT PLENUM
- PROVIDE NEOPRENE VIBRATION ISOLATION HANGING/SUPPORT KIT WITH FAN. TRANSITION TO FAN OPENING AS REQUIRED. USE FLEXIBLE CANVAS CONNECTORS AT THE INLET AND OUTLET OF THE FAN. EXHAUST FAN TO BE CONTROLLED BY MANUAL SWITCH.

COORDINATE WITH ELECTRICAL CONTRACTOR.

PROVIDE 16"X8" SHEET METAL SLEEVE IN WALL ABOVE

- CEILING FOR EXHAUST AIR PATH. EXTEND SLEEVE 6" ON BOTH SIDE OF WALL. PROVIDE A 1/2" MESH SCREEN ON DUCT OPENING. PROVIDE EXPANDED THROAT TAP AT END OF DUCT RUN. MOUNT BOTTOM OF UNIT HEATER 9'-0" AFF.
- MOUNT BOTTOM OF ELECTRIC HEATER 18" AFF. GREASE DUCTWORK SHALL BE WELDED STEEL CONSTRUCTION AND SLOPED BACK TO HOOD AT 2% GRADE (MIN), WRAP ENTIRE DUCT WITH GREASE DUCT FIRE PROTECTION SYSTEM EQUAL TO JOHNS MANVILLE "SUPER FIRETEMP" DUCT ENCLOSURE AND FIRE STOP MEETING ASTM 814 (3 HOUR ENCLOSURE).
- A10 21"X10" GREASE DUCT CONNECTION FROM KITCHEN HOOD TO 36"X18" EXHAUST DUCT UP TO KEF-1 ON ROOF, BALANCE EACH CONNECTION TO 2678 CFM. VERIFY FINAL COLLAR SIZES AND CFM VALUES WITH HOOD MANUFACTURER. A11 TRANSITION TO 11"X10" DUCT CONNECTION FROM KITCHEN HOOD, 18"X14" EXHAUST DUCT UP TO KEF-2 ON ROOF. BALANCE CONNECTION TO 1470 CFM. VERIFY FINAL COLLAR
- SIZE AND CFM VALUE WITH HOOD MANUFACTURER. A12 TRANSITION TO 9"X8" DUCT CONNECTION FROM DISHWASHER HOOD, 14"X14" EXHAUST DUCT UP TO KEF-3 ON ROOF. BALANCE CONNECTION TO 938 CFM. VERIFY FINAL COLLAR SIZE AND CFM VALUE WITH HOOD MANUFACTURER. 19"X12" HOOD MAKE-UP AIR CONNECTIONS (TYPICAL OF 4).

BALANCE TO 1071 CFM, VERIFY FINAL COLLAR SIZES AND CFM

KITCHEN HOOD CONTROL PANEL, SEE KITCHEN VENDOR DRAWINGS FOR MORE INFORMATION. DUCTWORK UP TO FLOOR ABOVE. REFER TO SHEET M114 FOR PROVIDE PLENUM FOR FLOOR REGISTER SAME SIZE AS

VALUES WITH HOOD MANUFACTURER.

- GRILLE NECK. CONNECT DUCTWORK TO PLENUM WITH EXPANDED THROAT TAP. REFER TO SHEET M114 FOR CHAPEL A17 MOUNT CENTER OF GRILLE AT 11'-6" AFF, COORDINATE WITH ROLL-UP DOOR.
- MOUNT CENTER OF GRILLE AT 9'-11" AFF. DISCHARGE 8" ROUND DUCT TO ABOVE ADJACENT CEILING. MOUNT BOTTOM OF AC UNIT 9'-0" AFF. DUCTWORK UP TO FLOOR ABOVE, REFER TO SHEET M115 FOR
- CONTINUATION. MOUNT TEMPERATURE CONTROL PANEL 4'-0" AFF. COORDINATE POWER AND DATA WITH ELECTRICAL
- CONTRACTOR, KITCHEN FREEZER AND COOLER COMPRESSORS PROVIDED BY OTHERS. COORDINATE REQUIRED REFRIGERANT
- CONNECTIONS WITH MECHANICAL CONTRACTOR. ROUTE 6" DRYER VENT UP TO ROOF, REFER TO DETAIL ON SHEET M602 FOR ADDITIONAL INFORMATION. PROVIDE CLEANOUTS AS REQUIRED.

GRD RUNOUT SCHEDULE							
DIFFUSER	DUCT SIZE	DIFFUSER	DUCT SIZE	GRILLE	DUCTSIZE		
S-1	6"ø	R-1	6"ø	E-1	6"ø		
S-2	8"ø	R-2	8"ø	E-2	8"ø		
S-3	10"ø	R-3	10"ø	E-3	10"ø		
S-4	12 <b>"</b> ø	R-4	12"ø	E-4	12"ø		
S-5	36x4	R-5	14"ø	E-5	14"ø		
S-6	10"ø	R-6	22x22	E-6	22x22		
S-7	24x6	R-7	16x8	E-7	10x4		
S-8	10/12"ø	R-8	36x12	E-8	16x8		
S-9	10x4	R-9	8"ø	E-9	36x12		
S-10	12x6	R-10	8"ø	E-10	6"ø		
S-11	16x8	R-11	12"ø	E-11	8"ø		
S-12	20x10	R-12	14"ø	E-12	10"ø		
S-13	8"ø			E-13	14"ฮ		
S-14	6"ø						
S-15	8"ø						
S-16	10"ø						
S-17	12"ø						

CASSETTE OA RUNOUT SCHEDULE									
UN <b>I</b> T	AIRFLOW	DUCT SIZE	UNIT	AIRFLOW	DU SI				
AC-7.5MC 0400	25	6"ø	AC-9.5MC 1304C	25	6"				
AC-7.5MC 0411	25	6"ø	AC-12MC 1808	25	6'				
AC-7,5MC 0622B	25	6"ø	AC-12MC 1810	25	6"				
AC-7,5MC 0809E	50	6"ø	AC-18MC 1811	25	6"				
AC-12MC 0813E	25	6"ø	AC-18MC 1813	125	8'				
AC-7.5MC 1304A	25	6"ø	AC-12MC 2307A	25	6'				
AC-18MC 1304B	75	6"ø							

AIRFLOW DUCT SIZE

100 6"ø

150 8"ø

300 10"ø

150 8"ø

175 8"ø

750 12"x12"

VERTICAL OA RUNOUT SCHEDULE									
UNIT	AIRFLOW	DUCT SIZE	UNIT	AIRFLOW					
AC-36V 0707	400	10x10	AC-18V 1216	100					
AC-24V 1101	100	10"ø	AC-18V 1221	150					
AC-12V 1109	150	8"ø	AC-24V 1222	300	Ī				
AC-18V 1120	100	6"ø	AC-18V 1241	150					
AC-12V 1200	125	8"ø	AC-18V 1253	175					
AC-18V 1203	150	8"ø	AC-54V 1701	750	Ī				
AC-18V 1208	125	8"ø							

HORIZONTAL OA RUNOUT SCHEDULE

50 6"ø AC-18H 1410

100 6"ø AC-36H 1601

50 6"ø AC-36H 1701A

AC-9,5H 1118 50 6"ø AC-12H 2302 125 8"ø AC-9.5H 1261 100 8"ø AC-36H 3202 350 10"ø

ELEC. Heaters

Gas Parel

AC-12H 0304 AC-24H 0501

AC-12H 0602

AC-24H 0700 AC-12H 1108

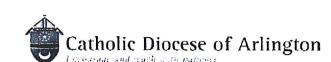
AC-12H 1114

100 6"ø AC-12H 1302 125 8"ø

50 6"ø AC-9.5H 1703 75 6"ø

VMDO



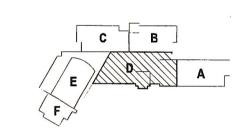


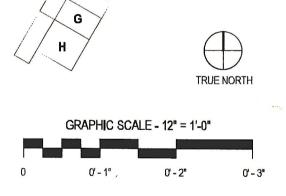
## PAUL VI CATHOLIC HIGH SCHOOL

CATHOLIC DIOCESE OF ARLINGTON 200 North Glebe Road Arlington, VA 22203

2016-0005 Loudoun County ZCPA Number VMDO Project Number







ISSUES AND REVISIONS NO. SUBMITTAL DATE 100% CONSTRUCTION DOCUMENTS 03,17,17

FLOOR PLAN LEVEL 0 AREA D - AIR DISTRIBUTION