

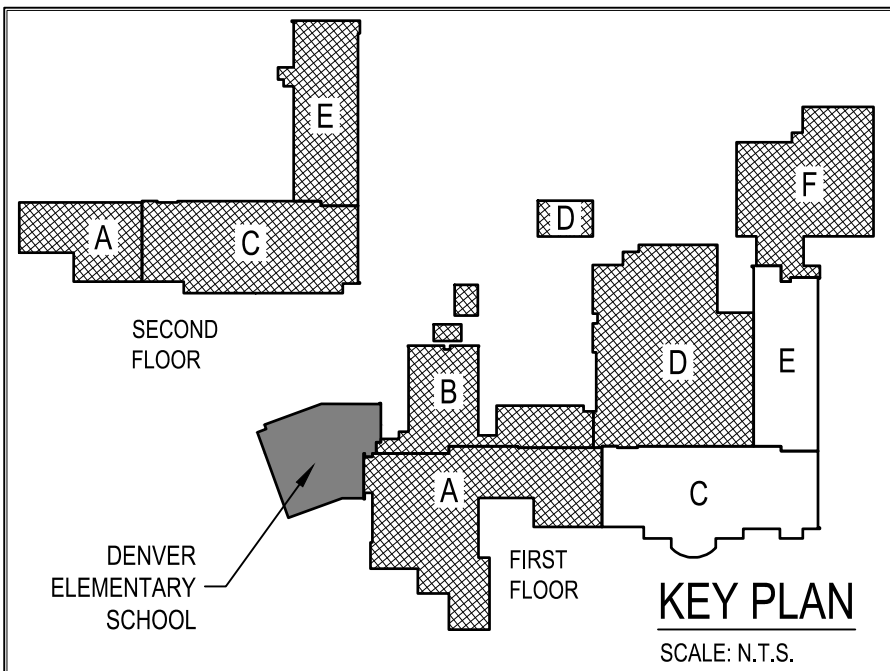
THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL PANEL LOCATIONS (INSIDE ELECTRICAL AND OUTSIDE ELECTRICAL ROOMS) WITH PIPING AND DUCTWORK LAYOUTS PRIOR TO PIPING AND DUCTWORK INSTALLATION. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL N.E.C. (NATIONAL ELECTRIC CODE) CLEARANCES BEFORE INSTALLING ANY PIPING AND DUCTWORK. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS RESULTING TO REWORKING (REMOVING AND REINSTALLING) PIPING AND DUCTWORK INSTALLED IN CONFLICT WITH ELECTRICAL PANELS/EQUIPMENT CLEARANCES.

DRAWING NOTES:

1. REFER TO DRAWING H-4 FOR GENERAL PROJECT NOTES.
2. PROVIDE REQUIRED SERVICE CLEARANCES FOR ALL HVAC EQUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
3. COORDINATE AND SCHEDULE ALL WORK IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS AND PHASING PLANS AS REQUIRED TO ACCOMMODATE PROJECT PHASING.
4. REFER TO PROJECT PHASING DRAWING AND SCHEDULE. PROVIDE ALL LABOR AND MATERIAL NECESSARY TO ACCOMMODATE PROJECT PHASING.
5. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO COMPLETE ALL INDICATED WORK.
6. THE HVAC CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILLING NOT INDICATED TO BE PROVIDED BY THE GENERAL CONTRACTOR ELSEWHERE IN THE DOCUMENTS THAT IS REQUIRED TO COMPLETE ALL INDICATED HVAC WORK.
7. ALL ROOFTOP UNITS INSTALLED ON SPRING ISOLATION RAILS MUST HAVE ALL SPRING ISOLATORS LOCATED ON INTERIOR OF UNIT LOCKED DOWN.

KEYED DRAWING NOTES:

1. EXTERIOR OF DUCT TO BE COVERED WITH EXTERIOR INSULATION SYSTEM AS SPECIFIED. SUPPLY DUCTWORK IS ALSO UNED AS SPECIFIED. ALL DUCTWORK SUPPORTS MUST BE INSTALLED OVER TOP OF THE ALUMINUM JACKET WITH NO PENETRATIONS THRU THE JACKET.
2. PATE EQUIPMENT SUPPORT MODEL ES-2, WITH UNI-STRUCT FRAME TO SUPPORT AND SECURE DUCTWORK ON ALL SIDES. HEIGHT SHALL BE ADJUSTED AS REQUIRED TO KEEP DUCTWORK LEVEL, TYP..
3. PROVIDE A 4'-0" DEEP X 96" WIDE X HEIGHT (EQUAL TO BOTTOM) OF PROVIDED CHILLER. ELEVATED PLATFORM WITH OSHA APPROVED HAND RAILS AND STAIRS. PLATFORM, HAND RAILS AND STAIR ASSEMBLY SHALL BE AS MANUFACTURED BY PHP SYSTEM/DESIGN OR EQUAL. THE SYSTEM SHALL BE DESIGNED TO BE INSTALLED DIRECTLY ON THE ROOF WITHOUT ANY ROOF PENETRATIONS. LOCATE THE PLATFORM, HAND RAILS AND STAIR ASSEMBLY AT THE CONTROL PANEL END OF THE CHILLER. COORDINATE THE STAIRS AND PLATFORM ARRANGEMENT WITH THE OTHER EXISTING MECHANICAL EQUIPMENT LOCATED ON THE ROOF. PROVIDE A FIRESTONE TPO ROOFING MEMBRANE SLIP SHEET FOLLOWED BY A 1/4" THICK HEAVY GAUGE RUBBER WEAR PADS UNDER EACH LEG SUPPORT OF THE PLATFORM AND STAIR ASSEMBLY. THE SLIP SHEET AND RUBBER PAD SHALL BE 2" LARGER THAN THE SUPPORT BASES AS MEASURED ON EACH SIDE.
4. DOUBLE LEAF ACOUSTICAL SMOKE VENT, BARBOCKDAVIS MODEL BSZG60X72D2N16SR, 5'-0" x 6'-0", PROVIDE WITH OSHA APPROVED SAFETY RAILINGS ON ALL 4-SIDES. REFER TO ARCHITECTURAL DWGS. FOR INSTALLATION DETAIL.
5. DOUBLE LEAF ACOUSTICAL SMOKE VENT, BARBOCKDAVIS MODEL BSZG60X60D2N16SR, 6'-0" x 6'-0", PROVIDE WITH OSHA APPROVED SAFETY RAILINGS ON ALL 4-SIDES. REFER TO ARCHITECTURAL DWGS. FOR INSTALLATION DETAIL.
6. HEAT TRACE ALL EXTERIOR DUAL TEMPERATURE SYSTEM PIPING. HEAT TRACE TO BE SIZED TO PROTECT PIPING FROM FREEZING DOWN TO -20°F. PROVIDE SELF REGULATING THERMOSTAT SET TO ENERGIZE AT 40°F. NELSON SELF-REGULATING HEAT TRACE MODEL CLT8-JT (LENGTH TO BE FIELD VERIFIED AFTER PIPE INSTALLATION IS COMPLETED). 120-1-60 (MAXIMUM CIRCUIT LENGTH 30'), (2) POWER CONNECTION KITS WITH END SEAL PLT-LPM-J, (1) AMBIENT SENSING THERMOSTAT TF4X40 (1) 180' ROLL OF GLASS TAPE GT60, (4) ELECTRIC TRACED LABELS WS100 (INSTALL 2 LABELS PER PIPE), POWERED BY (1) 120-1-60, 20 AMP DEDICATED GROUND FAULT CIRCUIT. INSTALL HEAT TRACE AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. HEAT TRACE AVAILABLE FROM PENN PUMP & EQUIP. CO. (215-997-6100).
7. H.C. TO FIELD FABRICATE AND INSTALL A 3'-0" LONG, FULL SIZE 16 GA. OUTSIDE AIR INTAKE EXTENSION ON OUTSIDE INTAKE OF MAKE AIR UNIT KVS-1.
8. PROVIDE FIELD FABRICATED ROOF CURB ADAPTER SIZED AS REQUIRED TO MOUNTED EXHAUST FAN TO EXISTING ROOF CURB.



ROOF PLAN - HVAC

RENOVATIONS TO THE COCALICO MIDDLE SCHOOL
COCALICO SCHOOL DISTRICT
SOUTH 4TH STREET, DENVER BOROUGH, LANCASTER COUNTY PA

ALL DIMENSIONS AND EXISTING CONDITIONS
SHALL BE CHECKED AND VERIFIED
BY THE CONTRACTOR AT THE SITE.

JOB NO.: 23001.00
DRAWN BY: RLC
DATE: 04.12.24

H-11

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