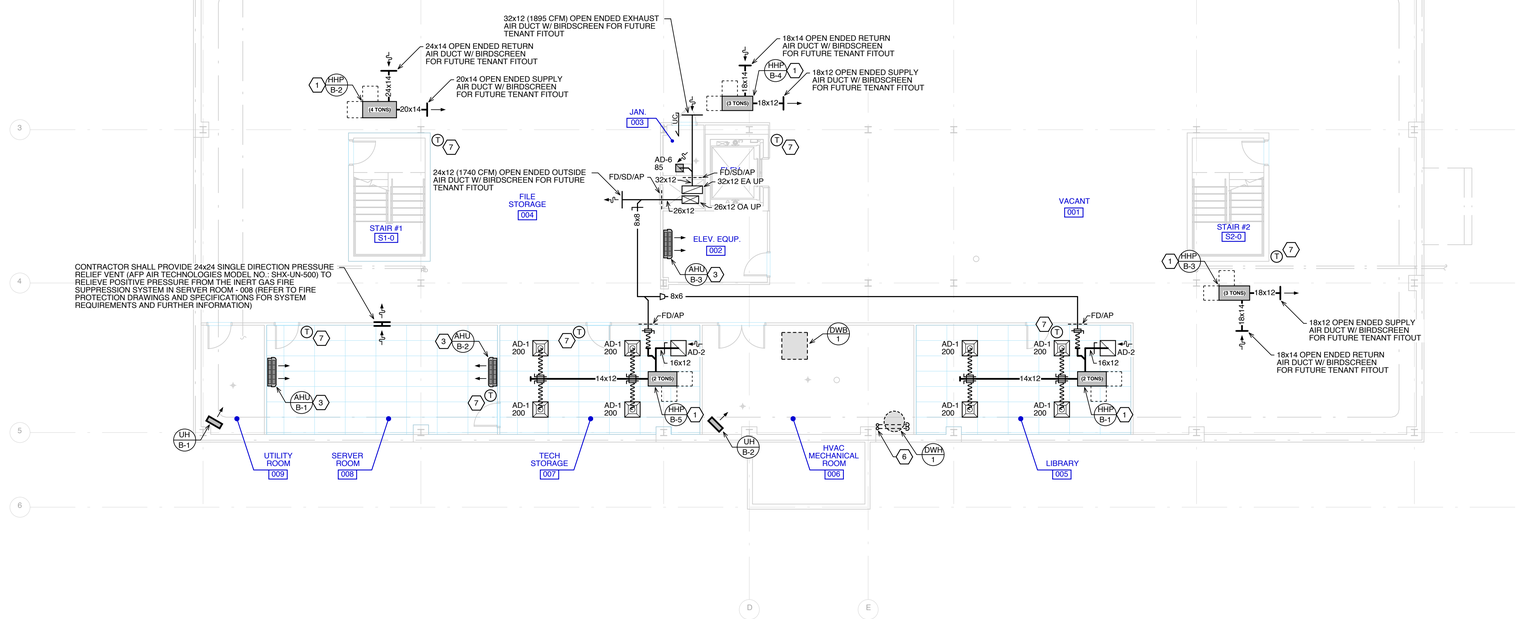
SHEET NOTES

1. REFER TO THE FOLLOWING NOTES FOR EACH HHP.
   - CONTRACTOR SHALL INSTALL A SAFETY DRAIN PAN UNDER THE UNIT AND THE CONDENSATE PUMP (IF REQUIRED). THE PAN SHALL BE 20 GA. GALVANIZED SHEET METAL SOLID CORNERS, SEAL ALL SEAMS. THE PAN SHALL BE A MINIMUM OF 3" HIGH AND A MINIMUM OF 2" FROM THE EQUIPMENT. PROVIDE A WATER SENSING SWITCH LOCATED IN THE PAN. THE SWITCH SHALL DE-ENERGIZE THE SYSTEM AND SIGNAL ALARM SHOULD WATER BE SENSED.
   - CONTRACTOR SHALL PROVIDE OUTSIDE AIR CONNECTION TO MAIN OUTSIDE AIR DUCT FROM RTU-1. 60 CFM/TON OF OUTSIDE AIR SHALL BE SUPPLIED TO EACH HHP (120 CFM, 8"Ø FOR 2-TON UNITS, 180 CFM, 8"Ø FOR 3-TON UNITS, 240 CFM, 10"Ø FOR 4-TON UNITS).
   - ENSURE THAT ALL MANUFACTURERS REQUIRED MAINTENANCE CLEARANCES ARE MET. REFER TO DETAILS 13&14/M3-2 FOR FURTHER INFORMATION.
2. CONTRACTOR SHALL PROVIDE 18x12 TRANSFER AIR LOUVER, HIGH ABOVE CLOSET DOOR.
3. EXTEND REFRIGERANT PIPING FROM INDOOR UNIT TO CORRESPONDING OUTDOOR UNIT. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS. COORDINATE ALL PIPING RUNS WITH ARCHITECT. CONTRACTOR SHALL GUARANTEE THAT THE REFRIGERANT LINES DO NOT EXCEED THE RECOMMENDED MAXIMUM LENGTH OF REFRIGERANT PIPING. COORDINATE LOCATION OF UNIT W/ ARCHITECT AND BUILDING OWNER PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL PROVIDE REVERSE ACTING THERMOSTAT SET TO 85°F (ADJ.) FOR INDICATED EXHAUST FAN. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF THERMOSTAT W/ ARCHITECT.
5. CONTRACTOR SHALL PROVIDE A 16'-0" LINEAR BAR SUPPLY GRILLE IN THE FACE OF WALL. KRUEGER MODEL DFL OR EQUAL WITH BLANK OFF PANELS FOR INACTIVE SECTIONS AS REQUIRED. 75 CFM/FT. 1200 CFM TOTAL. BORDER, COLOR AND FINISH SHALL BE COORDINATED WITH ARCHITECT. PROVIDE INSULATED PLENUM BOX ON THE BACK OF THE GRILLE.. CONTRACTOR SHALL PROVIDE ALL REQUIRED INTERNAL BRACING PER SMACNA STANDARDS (TYP.).
6. CONTRACTOR SHALL PROVIDE 3'Ø VENT/AIR INTAKE TERMINAL FROM GAS-FIRED WATER HEATER. VENT/AIR INTAKE PIPING SHALL TERMINATE THROUGH WALL. COORDINATE ALL WALL PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
7. INDICATES LOCATION OF SEVEN-DAY ELECTRONIC PROGRAMMABLE THERMOSTAT. PROVIDE NON-TAMPER TRANSPARENT ENCLOSURE FOR THERMOSTAT. COORDINATE ENCLOSURE AND FINAL LOCATION OF THERMOSTAT WITH ARCHITECT AND OWNER.
8. 6"Ø EXHAUST AIR DUCT SHALL TERMINATE THROUGH WALL WITH MANUFACTURERS' APPROVED BACKDRAFT DAMPER AND BRICK VENT/WALL CAP. COORDINATE EXACT TERMINATION LOCATION. COLOR AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION.
9. 6"Ø EXHAUST AIR DUCT UP. TERMINATE THROUGH ROOF WITH BACKDRAFT DAMPER AND GOOSENECK. COORDINATE EXACT TERMINATION LOCATION W/ ARCHITECT PRIOR TO INSTALLATION.
10. CONTRACTOR SHALL PROVIDE A 12'-0" LINEAR BAR SUPPLY/RETURN GRILLE ABOVE BUILT-IN CABINETS (REFER TO ARCHITECTURAL PLANS). KRUEGER MODEL DFL OR EQUAL WITH BLANK OFF PANELS FOR INACTIVE SECTIONS AS REQUIRED. 100 CFM/FT. 800 CFM TOTAL. BORDER, COLOR AND FINISH SHALL BE COORDINATED WITH ARCHITECT. PROVIDE INSULATED PLENUM BOX ON THE BACK OF THE GRILLE. CONTRACTOR SHALL PROVIDE ALL REQUIRED INTERNAL BRACING PER SMACNA STANDARDS (TYP.).

GENERAL NOTES

1. DUCTWORK SHOULD BE INSTALLED AS TIGHT AS POSSIBLE TO THE STRUCTURAL FRAMING AND DECK. MAINTAIN THE CEILING HEIGHTS AS SHOWN ON THE REFLECTED CEILING PLANS. COORDINATE ALL AIR DEVICES AND DUCTWORK W/ LIGHTING AND REFLECTED CEILING PLANS.
2. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ALL REQUIRED CEILING ACCESS PANELS OPENINGS TO SERVICE ALL MECHANICAL EQUIPMENT, BALANCING DEVICES, ETC. ALL ACCESS PANELS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL ACCESS PANEL LOCATIONS AND SIZES SHALL BE COORDINATED W/ ARCHITECT PRIOR TO INSTALLATION.
3. ALL DUCTWORK SIZES ARE SHOWN WITH CLEAR I.D. DIMENSIONS. ALL SUPPLY AND RETURN DUCTWORK WILL BE INSULATED (REFER TO MATERIAL AND INSULATION SCHEDULE FOR MORE INFORMATION).
4. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEMS. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO PRODUCE A COMPLETE SET OF COORDINATION DRAWING INCLUDING ALL DUCT ELEVATIONS, CHANGES IN DIRECTION, TRANSITIONS AND ELEVATION CHANGES REQUIRED FOR A COMPLETELY COORDINATED INSTALLATION. COORDINATION DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
5. ALL DUCT SHAFT LOCATIONS, SIZES AND ALL SHAFT REQUIREMENTS SHALL BE FULLY COORDINATED WITH ARCHITECT.
6. ALL BRANCH DUCTWORK SHALL BE INSTALLED WITH BALANCING DAMPERS.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS REQUIRED FOR A COMPLETE, COST EFFECTIVE, QUIET, ENERGY EFFICIENT AND FULLY OPERATIONAL MECHANICAL DESIGN.
8. ALL DUCTWORK SHALL BE CONSTRUCTED WITH GALVANIZED SHEET METAL IN COMPLIANCE WITH SMACNA STANDARDS.
9. CONTRACTOR SHALL FURNISH AND INSTALL FIRE DAMPERS OR FIRE/SMOKE COMBINATION DAMPERS WHERE REQUIRED TO MEET FIRE RATINGS OF FLOORS, WALLS AND CEILING SYSTEMS. REFER TO THE ARCHITECTURAL PLANS. PROVIDE FRAMED, HINGED, LOCKABLE ACCESS PANELS AT ALL DAMPERS.
10. ALL WALL CAP LOCATIONS, COLOR AND FINISH SHALL BE FULLY COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
11. WHERE APPLICABLE, ALL INTAKE AIR OPENINGS SHALL BE A MINIMUM OF 10'-0" FROM ALL EXHAUST AIR / FRESH AIR INLET LOCATIONS.
12. ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED WITH RCD#8 LOW-VOC MASTIC. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH SMACNA'S SEAL CLASS "B".
13. MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH THE ARCHITECT PRIOR TO INSTALLATION. THERMOSTATS / SENSORS SHALL HAVE A 3-5 DEGREE TEMPERATURE RANGE CONTROL LIMIT, THAT CAN BE SET BY THE OWNER.



1 MECHANICAL - BASEMENT PLAN

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

GENERAL NOTES

1. DUCTWORK SHOULD BE INSTALLED AS TIGHT AS POSSIBLE TO THE STRUCTURAL FRAMING AND DECK. MAINTAIN THE CEILING HEIGHTS AS SHOWN ON THE REFLECTED CEILING PLANS. COORDINATE ALL AIR DEVICES AND DUCTWORK WITH LIGHTING AND REFLECTED CEILING PLANS.
2. MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ALL REQUIRED CEILING ACCESS PANELS OPENINGS TO SERVICE ALL MECHANICAL EQUIPMENT, BALANCING DEVICES, ETC. ALL ACCESS PANELS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL ACCESS PANEL LOCATIONS AND SIZES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
3. ALL DUCTWORK SIZES ARE SHOWN WITH CLEAR I.D. DIMENSIONS. ALL SUPPLY AND RETURN DUCTWORK WILL BE INSULATED (REFER TO MATERIAL AND INSULATION SCHEDULE FOR MORE INFORMATION).
4. DRAWING PLANS, SCHEMATICS AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DUCT SYSTEMS. INDICATED DUCT LOCATIONS, CONFIGURATIONS, AND ARRANGEMENTS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO PRODUCE A COMPLETE SET OF COORDINATION DRAWING INCLUDING ALL DUCT ELEVATIONS, CHANGES IN DIRECTION, TRANSITIONS AND ELEVATION CHANGES REQUIRED FOR A COMPLETELY COORDINATED INSTALLATION. COORDINATION DRAWINGS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
5. ALL DUCT SHAFT LOCATIONS, SIZES AND ALL SHAFT REQUIREMENTS SHALL BE FULLY COORDINATED WITH ARCHITECT.
6. ALL BRANCH DUCTWORK SHALL BE INSTALLED WITH BALANCING DAMPERS.
7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS REQUIRED FOR A COMPLETE, COST EFFECTIVE, QUIET, ENERGY EFFICIENT AND FULLY OPERATIONAL MECHANICAL DESIGN.
8. ALL DUCTWORK SHALL BE CONSTRUCTED WITH GALVANIZED SHEET METAL IN COMPLIANCE WITH SMACNA STANDARDS.
9. CONTRACTOR SHALL FURNISH AND INSTALL FIRE DAMPERS OR FIRE/SMOKE COMBINATION DAMPERS WHERE REQUIRED TO MEET FIRE RATINGS OF FLOORS, WALLS AND CEILING SYSTEMS. REFER TO THE ARCHITECTURAL PLANS. PROVIDE FRAMED, HINGED, LOCKABLE ACCESS PANELS AT ALL DAMPERS.
10. ALL WALL CAP LOCATIONS, COLOR AND FINISH SHALL BE FULLY COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
11. WHERE APPLICABLE, ALL INTAKE AIR OPENINGS SHALL BE A MINIMUM OF 10'-0" FROM ALL EXHAUST AIR / FRESH AIR INLET LOCATIONS.
12. ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL BE SEALED WITH RCD#8 LOW-VOC MASTIC. ALL DUCTWORK SHALL BE IN ACCORDANCE WITH SMACNA'S SEAL CLASS "B".
13. MECHANICAL CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL THERMOSTATS WITH THE ARCHITECT PRIOR TO INSTALLATION. THERMOSTATS / SENSORS SHALL HAVE A 3-5 DEGREE TEMPERATURE RANGE CONTROL LIMIT, THAT CAN BE SET BY THE OWNER.

SHEET NOTES

1. 6"Ø EXHAUST AIR DUCT SHALL TERMINATE THROUGH WALL WITH MANUFACTURERS' APPROVED BACKDRAFT DAMPER AND BRICK VENT/WALL CAP. PROVIDE BIRD / INSECT SCREEN ON ALL PENETRATIONS. COORDINATE EXACT TERMINATION LOCATION, COLOR AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION. WHERE APPLICABLE, MAINTAIN 10'-0" HORIZONTAL SEPERATION BETWEEN EXHAUST AIR AND OUTSIDE AIR / FRESH AIR INLETS.

   6"Ø EXHAUST AIR DUCT SHALL TERMINATE THROUGH ROOF WITH MANUFACTURERS' APPROVED BACKDRAFT DAMPER AND GOOSENECK. PROVIDE BIRD / INSECT SCREEN ON ALL PENETRATIONS. COORDINATE EXACT TERMINATION LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. WHERE APPLICABLE, MAINTAIN 10'-0" HORIZONTAL SEPERATION BETWEEN EXHAUST AIR AND OUTSIDE AIR / FRESH AIR INLETS.

   REFER TO THE FOLLOWING NOTES REGARDING THE DUCTLESS MINI-SPLIT SYSTEMS:
   - COORDINATE THE FINAL LOCATION OF ALL AHU'S AND HP'S WITH ARCHITECT PRIOR TO INSTALLATION.
   - EXTEND AND CONNECT REFRIGERANT LINES IN CEILING SPACE FROM AHU TO CORRESPONDING HP PER MANUFACTURERS REQUIREMENTS. SIZE REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS. COORDINATE ALL PIPING RUNS WITH ARCHITECT. CONTRACTOR SHALL GUARANTEE THAT THE REFRIGERANT LINES DO NOT EXCEED THE RECOMMENDED MAXIMUM ALLOWABLE LENGTH OF REFRIGERANT PIPING. COORDINATE LOCATION OF UNIT WITH ARCHITECT PRIOR TO INSTALLATION.
   - EXTEND AND CONNECT CONDENSATE PIPING FROM AHU TO NEAREST MOP RECEPTOR. CONDENSATE PIPING SHALL TERMINATE A MINIMUM OF 6" ABOVE MOP RECEPTOR RIM. IF REQUIRED, CONTRACTOR SHALL PROVIDE LITTLE GIANT CONDENSATE PUMP. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

ISSUED FOR BIDDING	2	02-12-2016
ISSUED FOR CONSTRUCTION PERMITS	1	01-27-2016
DRAWING ISSUE	No.	DATE

OSK DESIGN PARTNERS, PA
ARCHITECTS AND LAND PLANNERS
www.oskdesignpartners.com
• 17 WEST KNIGHT AVENUE, SUITE 200, COLLINGSWOOD, NEW JERSEY 08108 PHONE: (856)854-0680 / FAX: (856) 854-0993
• 9616 SECOND AVENUE, SUITE 201, STONE HARBOR, NEW JERSEY 08247
FOUNDER: JOHN J. OLIVIERI (1956-1999)
PRINCIPAL: GERALD S. BLACKMAN, JR. AIA, NCARB
PRINCIPAL: PAUL A. ESSIG AIA, PP, NCARB
PARTNER: GERALD S. BLACKMAN, JR. AIA, NCARB
ASSOCIATE: STEVEN J. BOLOGNO, AIA
REGISTERED IN: • NEW JERSEY • PENNSYLVANIA • DELAWARE • FLORIDA • GEORGIA • ILLINOIS • MARYLAND • MASSACHUSETTS • NEW YORK • NORTH CAROLINA • TENNESSEE • VIRGINIA • WEST VIRGINIA • WISCONSIN

Scott White, P.E.
NJ License # 24GE04977900
Authorization No: 24GA28143700

HOLSTEIN WHITE, INC.
CONSULTING ENGINEERS
210 E. STREET ROAD SUITE 2D FEASTERVILLE, PA 19053
TELE # (215)322-7711
FAX # (215)322-7709

PROJECT NORTH

PROJECT
CMCMUA ADMINISTRATION BUILDING
1523 ROUTE 9, SWAINTON
MIDDLE TOWNSHIP, NEW JERSEY 08210

DWG. TITLE
MECHANICAL - BASEMENT FLOOR PLAN

ALL DRAWINGS COPYRIGHT © OSK DESIGN PARTNERS, P.A. ALL RIGHTS RESERVED

CONTRACTOR SHALL CHECK & VERIFY ALL DIMENSIONS AND REPORT ANY ERRORS PRIOR TO STARTING CONSTRUCTION.

REVISIONS:

DRAWN BY:	DB
CHECKED BY:	JB
DATE:	11-30-2015
SCALE:	AS NOTED

JOB NO. 15-260
FILE:

M1-1