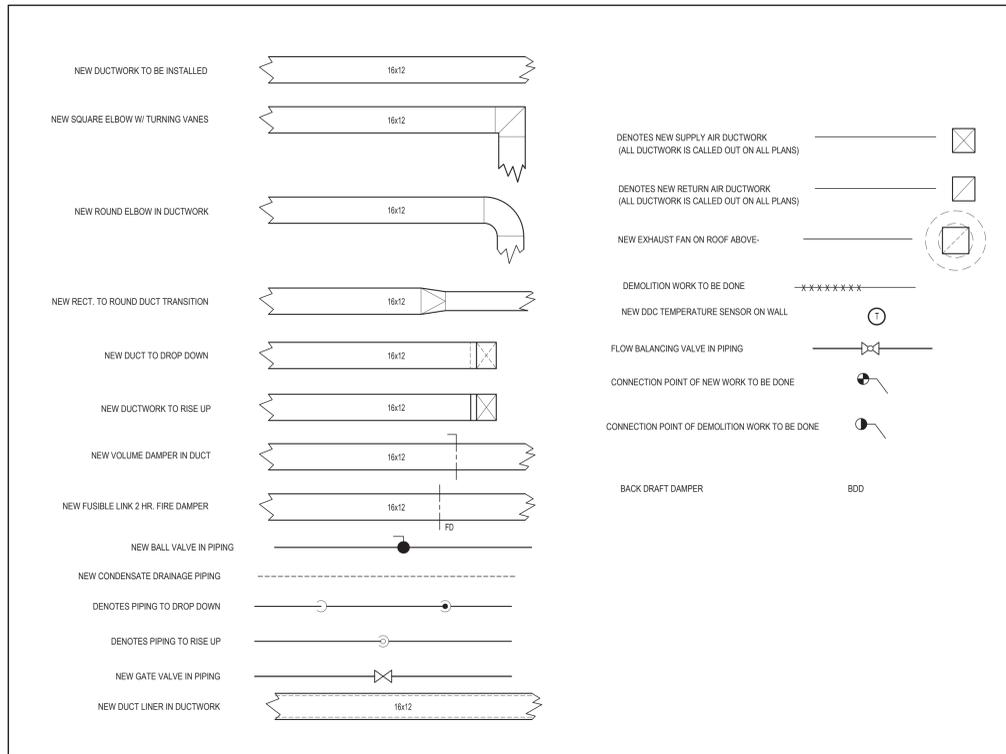


MECHANICAL LEGEND, SYMBOLS, AND ABBREVIATIONS



CONTRACTOR ABBREVIATIONS:

M.C. = MECHANICAL CONTRACTOR	P.C. = PLUMBING CONTRACTOR
C.C. = CONTROLS CONTRACTOR	E.C. = ELECTRICAL CONTRACTOR
R.C. = CERTIFIED ROOFING CONTRACTOR	

VENTILATION SCHEDULE

Room Number	Occupancy Classification	Occupancy Density (People Per 1000SF)	People Outdoor Airflow Rate in Breathing Zone, Rp (CFM/Person)	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)	Exhaust Airflow Rate (CFM/SF)	Area (SF)	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)	Zone Air Distribution Effectiveness, Ez	Corrected Zone Outdoor Airflow CFM, Voz	OAI (CFM) Supplied
.001	Classroom (ages 5-8)	25	10	0.12	0	746	19	280	0.9	312	320
.002	Classroom (ages 5-8)	25	10	0.12	0	746	19	280	0.9	312	320
.003	Classroom (ages 5-8)	25	10	0.12	0	674	17	251	0.9	279	280
.004	Classroom (ages 5-8)	25	10	0.12	0	599	15	222	0.9	247	250
.002A	Classroom (ages 5-8)	25	10	0.12	0	155	4	59	0.9	66	70
.002B	Classroom (ages 5-8)	25	10	0.12	0	151	4	59	0.9	66	70
Office-001	Office space	5	5	0.06	0	165	1	15	0.8	19	30
Office-002	Office space	5	5	0.06	0	230	2	24	0.8	30	30
Nurse Office	Office space	5	5	0.06	0	152	1	15	0.8	19	30

GENERAL NOTES

- REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC. THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE / SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
- IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTORS COST AS A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTORS COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
- THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
- SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
- EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH, WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
- "ATTIC STOCK" - UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PIECE OF EQUIPMENT & TURN OVER TO OWNER.
- MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE PROJECT.
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PIECE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PIECE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PIECE OF EQUIPMENT USED.

FIRE STOPPING NOTES

- ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSUMED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR. COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR. COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
- CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUILIBRY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
 - AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
 - AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER.
 - AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
 - AT SUCTION & DISCHARGE OF EACH PUMP.
 - FOR EACH MAKEUP WATER LINE.
 - BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
 - AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS.
 - AT ALL EXPANSION / COMPRESSION TANKS.

PIPING SYSTEMS AND EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" RH-YVENT OR EQUIVALENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

- MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
- POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ALL ELECTRICAL WORK.

DUCTWORK NOTES

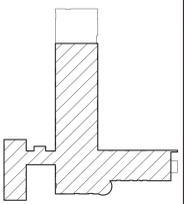
- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH "SMACNA" SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUS, THEN RADIUS ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUS ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNITS. IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 5dB DIFFERENT THAN THAT ORIGINAL MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. ALL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED. IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED, NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

REV.	DATE	ITEM

NOTICE
 THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PROVIDED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND, THEREFORE, MAY NOT REPRESENT THE ENGINEER AS CONTROLLED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN REVEALED AND DETEILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
 NOT TO SCALE

GREENBURGH CENTRAL SCHOOL DISTRICT
PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
EARLY CHILDHOOD PROGRAM
 HARTSDALE, NEW YORK - WESTCHESTER COUNTY
MECHANICAL GENERAL NOTES, SYMBOLS AND LEGEND

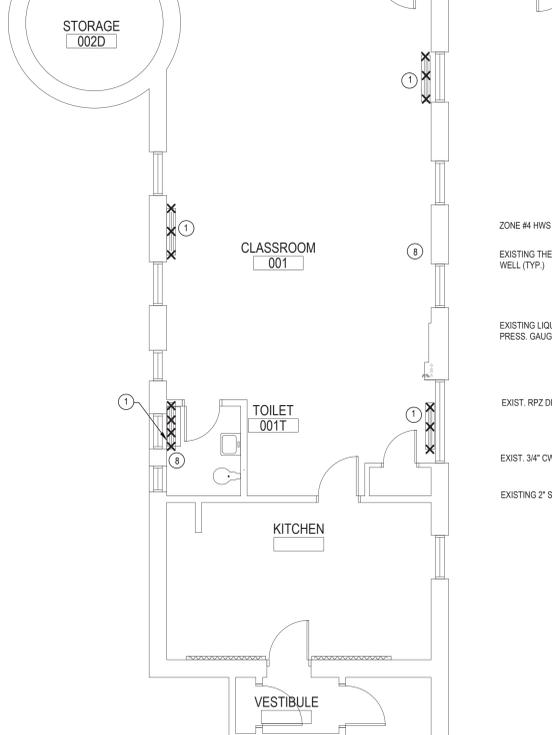
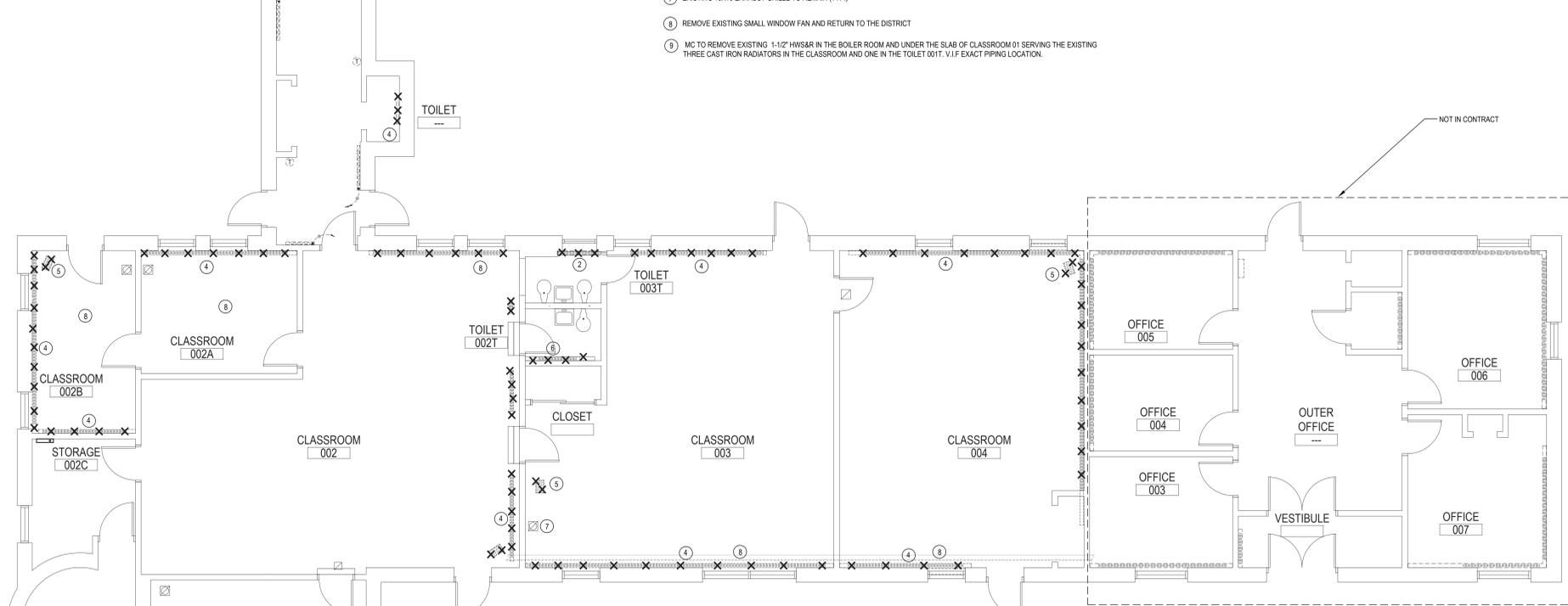
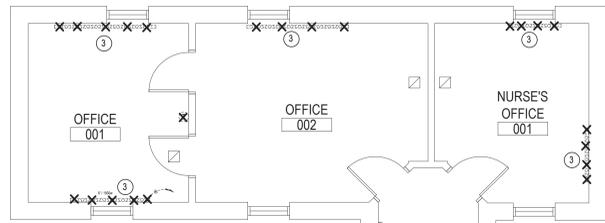
DRAWING BY: DS
 CHECK BY: DS

NOTICE
 THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS. NO REPRODUCTION OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PERMITTED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE PROJECT OR ENGINEER.

BBS
 ARCHITECTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205
 PATCHOGUE, ALBANY
 NEW YORK 11772 | NEW YORK 12205
 T. 631.475.0349 | T. 518.621.7650
 F. 631.475.0361 | F. 518.621.7655
 www.BBSARCHITECTURE.com

SED No: 66-04-07-06-0-011-008
 DISTRICT: GREENBURGH CSD
 PROJECT: PH I - DW CAP IMPROVEMENTS EARLY CHILDHOOD PROGRAM
 DWG TITLE: MECHANICAL GENERAL NOTES, SYMBOLS AND LEGEND
 SCALE: AS NOTED
 DATE: MAY 2022
 BID PICK-UP: MAY 27, 2022
 FILE No: 21-292

M0.01E of ---



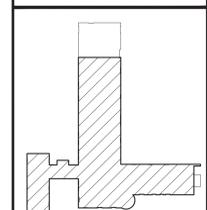
- NOTES:
- MC TO SHUT OFF EXIST. HWS & R. DISCONNECT AND REMOVE CAST IRON RADIATOR. REMOVE CONTROL VALVE AND PIPING CONNECTIONS. AFTER NEW PIPING IS INSTALLED UNDER THE SLAB AND IN BOILER ROOM. MC TO REINSTALL THE RADIATOR (SEE DWG M1.02E) BY RECONNECTING IT TO NEW HWS&R PIPING AND PROVIDING NEW CONTROLS. MC TO COORDINATE WORK WITH GC (TYP. FOR 4)
 - MC TO SHUT OFF HWS&R. CAP PIPING. DISCONNECT AND REMOVE EXISTING FIN TUBE RADIATOR AND ASSOCIATED CONTROLS FOR FUTURE USE. MC TO REINSTALL FIN TUBE RADIATORS AND CONTROLS BACK TO ORIGINAL LOCATION AFTER NEW WALL/FLOOR WORK IS DONE
 - MC TO REMOVE ELECTRIC BASEBOARD HEATERS AND ASSOCIATED CONTROLS.
 - MC TO SHUT OFF HWS&R. DISCONNECT AND REMOVE THE FIN TUBE RADIATORS. CAP PIPING BACK TO THE MAINS. GC TO PATCH FLOOR (WALL) TO MATCH EXISTING. MC TO REMOVE ASSOCIATED CONTROLS
 - MC TO REMOVE ELECTRIC UNIT HEATER AND CONTROL WIRING. GC TO PATCH WALL TO MATCH EXISTING. MC TO COORDINATE WORK WITH GC AND EC
 - MC TO SHUT OFF HWS&R. DISCONNECT AND REMOVE THE FIN TUBE RADIATOR FOR FUTURE USE. CAP PIPING BACK TO THE MAINS. GC TO PATCH FLOOR (WALL) TO MATCH EXISTING. MC TO REMOVE ASSOCIATED CONTROLS. SEE MECHANICAL NEW 1ST FLOOR PLAN FOR FIN TUBE RADIATOR NEW LOCATION
 - EXISTING 10X10 EXHAUST GRILLE TO REMAIN (TYP.)
 - REMOVE EXISTING SMALL WINDOW FAN AND RETURN TO THE DISTRICT
 - MC TO REMOVE EXISTING 1-1/2" HWS&R IN THE BOILER ROOM AND UNDER THE SLAB OF CLASSROOM 01 SERVING THE EXISTING THREE CAST IRON RADIATORS IN THE CLASSROOM AND ONE IN THE TOILET 001T. V.I.F. EXACT PIPING LOCATION.

EXISTING ZONES

- ZONE #1: EXISTING PUMP: P-1, TACO #00234E ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE#1 (CLASSROOM #001& TOILET) TO REMAIN. (V.I.F.)
- ZONE #2: EXISTING PUMP: P-2, TACO #00234E ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #2 (CLASSROOM #002, #002A AND #002B) TO REMAIN (V.I.F.)
- ZONE #3: EXISTING PUMP: P-3, TACO #00234E ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #3 (CLASSROOM #3, #4 AND TOILETS). TO REMAIN (V.I.F.)
- ZONE #4: EXISTING PUMP: P-4, TACO #00234E ECM HIGH EFFICIENCY VARIABLE SPEED SERVES HW PIPING LOOP FOR ZONE #4 (OFFICES #003 THRU #007) TO REMAIN. (V.I.F.) (NOT PART OF THE CONTRACT)

REV.	DATE	ITEM

NOTICE
 THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONTRACTED AT THE TIME. ALL EXISTING INFORMATION AS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN RECENT AND OBTAINED FOR THE ORIGINAL DOCUMENTS OR FOR THE OWNER'S INFORMATION.



KEY PLAN
 NOT TO SCALE

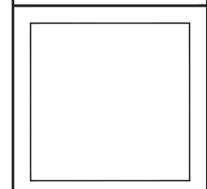
PROJECT
 GREENBURGH CENTRAL SCHOOL DISTRICT
 PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
 EARLY CHILDHOOD PROGRAM
 HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE
 MECHANICAL DEMOLITION 1ST FLOOR PLAN

DRAWING BY: DS
 CHECK BY: DS

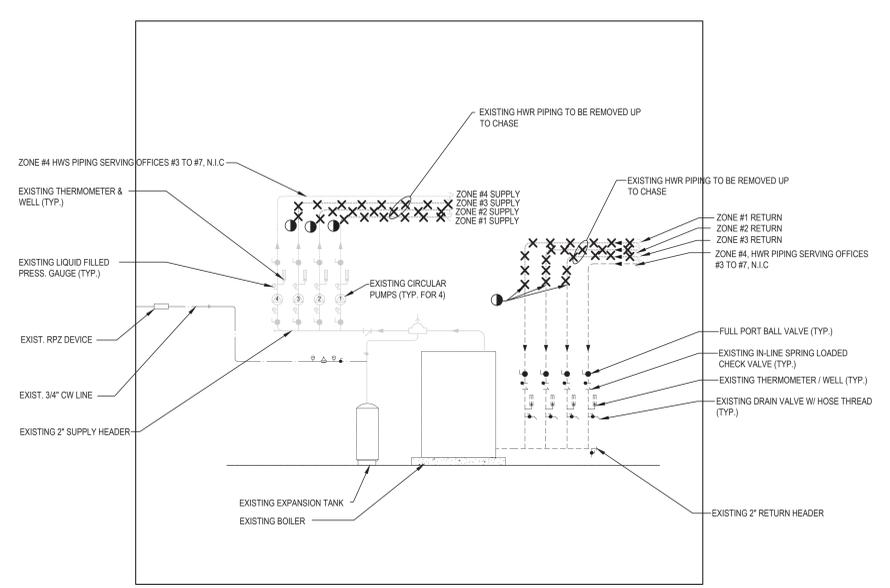
NOTICE
 THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. REPRODUCTION OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE PROJECT OR ENGINEER.

BBS
 ARCHITECTS
 LANDSCAPE ARCHITECTS
 ENGINEERS
 244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205
 PATCHOGUE, NY 11772 | ALBANY, NY 12205
 NEW YORK 11772 | NEW YORK 12205
 T. 518.475.0349 | T. 518.421.7650
 F. 518.475.0361 | F. 518.421.7655
 www.BBSARCHITECTURE.com

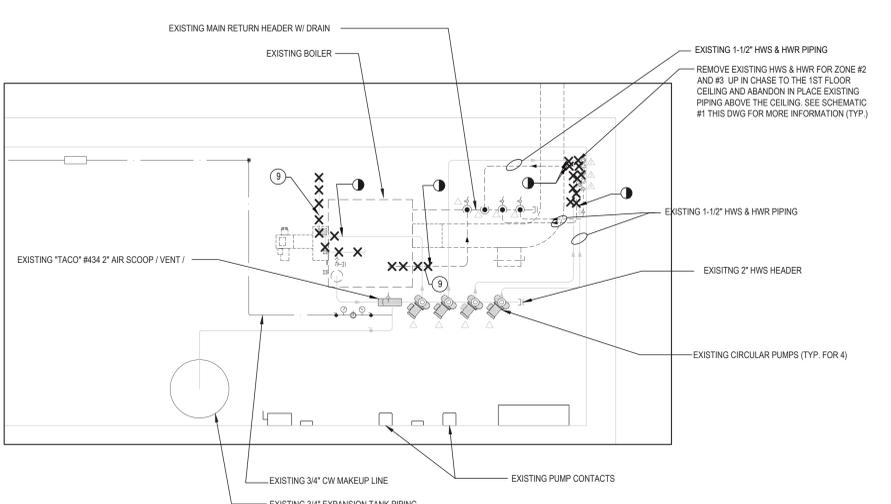


SED No: 66-04-07-06-0-011-008
 DISTRICT: GREENBURGH CSD
 PROJECT: PH I - DW CAP IMPROVEMENTS EARLY CHILDHOOD PROGRAM
 DWG TITLE: MECHANICAL DEMOLITION 1ST FLOOR PLAN
 SCALE: AS NOTED
 DATE: MAY 2022
 BID PICK-UP: MAY 27, 2022
 FILE No: 21-292

M1.01E OF ---



SCHEMATIC #1
 NOT TO SCALE



BOILER ROOM - DEMOLITION FLOOR PLAN
 SCALE: 1/2" = 1'-0"

UNIT VENTILATOR SCHEDULE

(MAGIC AIR AS STANDARD)

Manufacturer	MagicAire	MagicAire
Performance Details	MAUVF3	MAUVF2
Arrangement	Vertical Floor Mounted	Vertical Floor Mounted
Base Unit Size	MAUV-3	MAUV-2
Tag	UV-1, UV-2 & UV-3	UV-4
Quantity	3	1
Altitude	0	0
Configuration	4 Pipe	4 Pipe
Nominal Airflow (CFM)	1000	750
OA (CFM)	UV-3 = 280, UV-1 & 2 = 315	UV-4=250
External Static Pressure ESP (IWG)	0.1	0.1

Heating Coil	2 Row Hot Water Coil - Left Hand	2 Row Hot Water Coil - Left Hand
Rows	2	2
EAT Dry Bulb (F)	47	47
LAT Dry Bulb (F)	100.93	101.16
Total Capacity (BTU/hr)	60659	46227
EWT (F)	180	180
LWT (F)	148.86	152.88
GPM	4	3.5
WPD (ft w.g.)	1.516	0.963
Heating Fluid	Water	Water

Electrical Data

ECM	ECM
Voltage 1 (V1)	120
Phase	1
Frequency	60
Motor HP	1/3
Motor FLA (at V1)	4
Unit MCA (at V1)	5
Unit MOPD (at V1)	15
LOUVER SIZE	48"x10"

- NOTES:**
- All temperature controls to be field supplied and installed by ATC contractor.
 - Architect to select unit color from vendor color chart.
 - MC to coordinate pipe hand connections with vendor.
 - Provide MERV 13 filters
5. REFER TO ATC SPECIFICATION SECTION 15903 FOR FURTHER DETAILS REGARDING UNIT TEMPERATURE CONTROLS. REFER TO DWGS. #M6.02 FOR PIPING / INSTALLATION DETAILS. PROVIDE NEW CLEAR ANODIZED LOUVER.
6. CONTROLS SUBCONTRACTOR, UNDER CONTRACT TO MECHANICAL CONTRACTOR
7. PROVIDE NEW CLEAR ANODIZED ON LOUVER.

CABINET UNIT HEATER SCHEDULE

(STERLING AS STANDARD)

CABINET UNIT HEATER SUBMITTAL DATA
 Floor Mounted Units - Models F and FI - With Top Discharge
 PIPING AND MOUNTING CONNECTIONS SHOWN ARE TYPICAL FOR ALL AIR FLOW ARRANGEMENTS SEE OTHER SIDE.

STERLING COMMERCIAL HYDRONIC PRODUCTS
 260 NORTH ELM STREET / WESTFIELD, MA 01085
 TEL: (413) 568-9571 FAX: (413) 562-8437
 www.sterlingheat.com

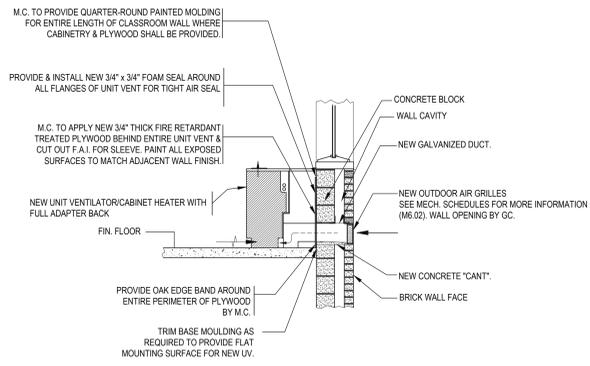
MESTEK COMPANY

CABINET UNIT HEATERS RATINGS AND SPECIFICATIONS

ENTERING WATER: 200°F
 ENTERING AIR: 60°F

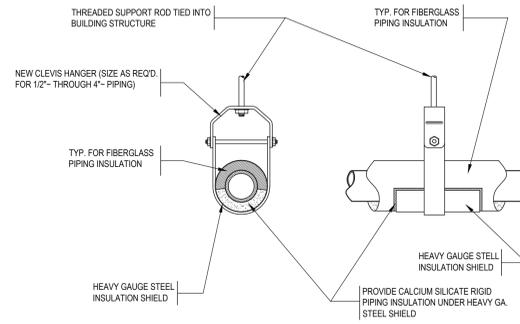
TABLE 1

UNIT SIZE	02	03	04	06	08	10	12	14
Heating Coil - 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 3/4" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 1" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 1 1/4" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 1 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 2 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 3" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 3 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 4" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 4 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 5" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 5 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 6" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 6 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 7" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 7 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 8" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 8 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 9" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 9 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 10" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 10 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 11" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 11 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 12" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 12 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 13" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 13 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 14" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 14 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 15" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 15 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 16" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 16 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 17" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 17 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 18" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 18 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 19" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 19 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 20" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 20 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 21" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 21 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 22" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 22 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 23" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 23 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 24" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 24 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 25" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 25 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 26" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 26 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 27" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 27 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 28" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 28 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 29" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 29 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 30" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 30 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 31" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 31 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 32" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 32 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 33" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 33 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 34" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 34 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 35" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 35 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 36" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 36 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 37" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 37 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 38" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 38 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 39" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 39 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 40" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 40 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 41" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 41 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 42" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 42 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 43" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 43 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 44" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 44 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 45" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 45 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 46" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 46 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 47" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 47 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 48" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 48 1/2" (1.5" TYP.)	MM 150	225	270	315	360	405	450	495
Heating Coil - 49" (1.5" TYP.)								



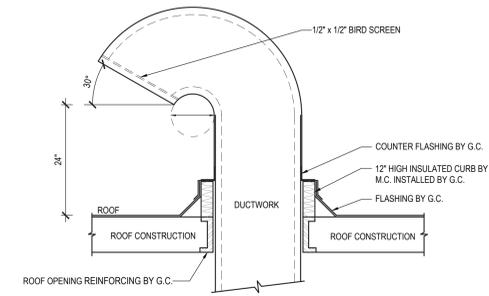
UNIT VENTILATOR/CABINET HEATER FRESH AIR INTAKE-MASONRY WALL INSTALLATION DETAIL

SCALE: NOT TO SCALE



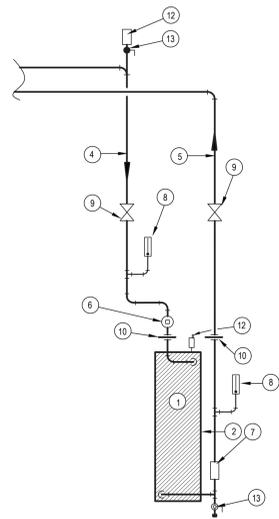
CLEVIS HANGER PIPING SUPPORTS DETAIL

SCALE: NOT TO SCALE



FRESH AIR INTAKE GOOSENECK DETAIL

SCALE: NOT TO SCALE



LEGEND

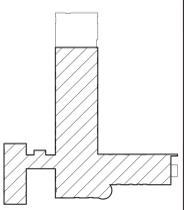
- ① HOT WATER COIL
- ② DIRECTION OF AIR FLOW
- ④ HOT WATER SUPPLY PIPING
- ⑤ HOT WATER RETURN PIPING
- ⑥ BALANCING VALVE
- ⑦ FLOW INDICATOR THERMOMETER & WELL
- ⑧ GATE VALVE
- ⑩ PIPING UNION
- ⑪ DRAIN VALVE
- ⑫ AUTOMATIC AIR VENT
- ⑬ FULL PORT BALL VALVE

FACE & BYPASS UNIT VENTILATOR HOT WATER COIL PIPING DETAIL

SCALE: NOT TO SCALE

REV.	DATE	ITEM

NOTICE
 THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN REVEALED AND DETEILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
 NOT TO SCALE

PROJECT: GREENBURGH CENTRAL SCHOOL DISTRICT
 PHASE I - DISTRICT WIDE CAPITAL IMPROVEMENTS
 EARLY CHILDHOOD PROGRAM
 HARTSDALE, NEW YORK - WESTCHESTER COUNTY

DWG TITLE: MECHANICAL DETAILS

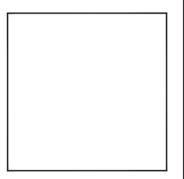
DRAWING BY: DS
 CHECK BY: DS

NOTICE
 THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, P.C. REPRODUCTION OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER.

BBS
 ARCHITECTS
 LANDSCAPE ARCHITECTS
 ENGINEERS

244 EAST MAIN STREET | 187 WOLF ROAD, STE. 205
 PATCHOGUE | ALBANY
 NEW YORK 11772 | NEW YORK 12205
 T. 631.475.0349 | T. 518.621.7650
 F. 631.475.0561 | F. 518.621.7655

www.BBSARCHITECTURE.com



SED No: 66-04-07-06-0-011-008
 DISTRICT: GREENBURGH CSD
 PROJECT: PH I - DW CAP IMPROVEMENTS
 EARLY CHILDHOOD PROGRAM
 DWG TITLE: MECHANICAL
 DETAILS
 SCALE: AS NOTED
 DATE: MAY 2022
 BID PICK-UP: MAY 27, 2022
 FILE No: 21-292