GENERAL NOTES:

1. SEE INFO ON HVAC DETAILS SHEETS FOR INSTALLATION INFORMATION ON ALL HVAC EQUIPMENT, DUCTWORK, AND PIPING.
2. PROVIDE ISOLATION VALVES AT EACH PIECE OF EQUIPMENT.
3. PROVIDE BALANCING VALVES AT EACH COIL.
4. PROVIDE 2-WAY MODULATING CONTROL VALVES FOR PRE-HEAT, COOLING AND RE-HEAT COILS AT EACH AHU (TYP).

PROVIDE MODULATING 2-WAY BYPASS VALVES ON THE CHILLED WATER (3") AND HOT WATER SYSTEMS (2" VALVE)

PROVIDE CAPPED HOT (1-1/4") AND CHILLED (2-1/2") WATER TAPS WITH VALVES FOR FUTURE AHU.

INTEGRAL PRIMARY PUMP PACKAGE ON EACH CHILLER

EXTERIOR PIPING TO GET ALUMINUM JACKETING

PROVIDE CHILLED WATER FOR PROCESS COOLING CAPPED FOR FUTURE.

4.8 GPM

PROVIDE CHILLED WATER FOR PROCESS COOLING CAPPED FOR FUTURE.

16.8 GPM

PROVIDE CAPPED HOT (1-1/4") AND CHILLED (2") WATER TAPS WITH VALVES FOR FUTURE AHU.

ELECTRIC HUMIDIFIER PIPED TO SUPPLY DUCT DISPERSION TUBES (TYP. OF 11)

16.8 GPM

8" BOILER EXHAUST & 10" INTAKE UP THROUGH ROOF (TYP. OF 3)

33.6 GPM

1-1/2" NATURAL GAS DOWN TO BOILERS. 1-1/4" CONNECTION TO EACH BOILER.

PROVIDE CHILLED WATER FOR PROCESS COOLING CAPPED FOR FUTURE.

GOODS IN / QC/ DESPATCH

54"x24" LINED RETURN DUCT DOWN 4' FROM DECK
42"x42" LINED SUPPLY PLENUM DOWN 8' FROM DECK
ON ROOF ABOVE RTU 1 — 600 MBH
S1D 2180 — 36"x18" (x4)

CLEANROOM #8 MOULDIING 1 (GANTRY CRANE)

FUTURE CLEANROOM #10 MOULDING 2 (FUTURE GANTRY CRANE)

FUTURE CLEANROOM #2 TPE EXTRUSION (POTENTIAL FUTURE GANTRY CRANE)

54"x24" LINED RETURN DUCT DOWN 4' FROM DECK
42"x42" LINED SUPPLY PLENUM DOWN 8' FROM DECK
ON ROOF ABOVE RTU 9 — 300 MBH
S1D 1750 — 36"x18" (x4)

CLEANROOM CORRIDOR

CLEANROOM #1 SILICONE EXTRUSION

WAREHOUSE (LIMITED TEMP. CONTROL)

CLEANROOM #11 MOULD ASSEMBLY 2

CLEANROOM #9 MOULD ASSEMBLY 1

CLEANROOM #3 ELEMENTS

2" NATURAL GAS ROUTED BELOW ROOF

CLEANROOM CORRIDOR

PROVIDE CHILLED WATER FOR PROCESS COOLING CAPPED FOR FUTURE.

INDUSTRIAL LIGHT GOODS ASSEMBLY

RTU 3 ON ROOF ABOVE — 300 MBH
54"x24" RA DUCT OPEN ENDED IN PLENUM
30"x22" SA DUCT DOWN TO SERVE FIRST FLOOR

RTU 2 ON ROOF ABOVE — 300 MBH
28"x20" SA DUCT DOWN TO SERVE FIRST FLOOR
48"x14" RA DUCT OPEN ENDED IN PLENUM

RTU 7 ON ROOF ABOVE — 80 MBH
24"x10" SA DUCT DOWN TO SERVE FIRST FLOOR
28"x10" RA DUCT OPEN ENDED IN PLENUM
3/4" NATURAL GAS UP TO RTU (TYPICAL U.N.O.)

RTU 8 ON ROOF ABOVE — 80 MBH
28"x12" SA DUCT DOWN TO SERVE FIRST FLOOR
24"x16" RA DUCT OPEN ENDED IN PLENUM

CUSTOMER DEMO

TOOL STORE/ WORKSHOP

WHITE ROOM/ MEDICAL/ BIOPHARM/ LIGHT GOODS ASSEMBLY

CHANGE AREA

CLEANROOM #4 PURESU/ ASEPTICSU

CLEANROOM #5 GASKETS/ HOSE

CLEANROOM #7 CYRO

CLEANROOM #6 BRAID

LARGE TRAINING 2,050 SF

LARGE TRAINING 1,650 SF

BREAKROOM 3,900 SF

POTENTIAL STAFF KITCHEN 250 SF

FUTURE AREA FOR CATERING KITCHEN 1,250 SF

OPEN TO BELOW

COFFEE

OPEN OFFICE

SMALL TRAINING 27 X 25

LARGE CONF. 25 X 20

5 PSIG GAS FROM METER (BY OTHERS)

2" NATURAL GAS ROUTED BELOW ROOF

1 HVAC - 2ND FLOOR PLAN (PIPING)

SCALE: 1/16"=1'-0"

1' 8' 16' 24' 32'

ENERGY ELECTRICAL CONTRACTORS
ELECTRICAL
740 QUAKER HWY
UXBRIDGE, MA 01569
PH: 508.278.9866

CASE ENGINEERING
PLUMBING
796 MERUS COURT
FENTON, MO 63026
PH: 636.349.1600

RESILIENT BUILDINGS GROUP
LEED
PO BOX 1000
CONCORD, NH 03301
PH: 603.226.1009 x 205

CONSULTING ENGINEERS
CIVIL
VHB, INC.
99 HIGH STREET, SUITE 400
PROVIDENCE, RI 02903
PH: 401.457.2079

MAGNUSSON KLEMENCIC ASSOCIATES
STRUCTURAL
11457 OLDE CABIN ROAD, SUITE 350
ST. LOUIS, MO 63141
PH: 314.965.0010

I.BERGELT BUSINESS CENTER DR.
MECHANICAL
1982 INNERBELT BUSINESS CENTER DR.
ST. LOUIS, MO 63114
PH: 314.548.9218

CONTRACTOR
ARCO NATIONAL CONSTRUCTION | NEW ENGLAND
153 CORDAVILLE RD, SUITE 320
SOUTHBOROUGH, MA 01772
(P) 508.237.3113
WWW.ARCONATIONAL.COM

ARCHITECT
GMA ARCHITECTS
900 NORTH ROCK HILL ROAD
ST. LOUIS, MISSOURI 63119
(P) 314.822.5191 (F) 314.462.0714
WWW.GMAARCHITECTS.COM

PROJECT
SCANNELL
16 BULGE ROAD
DEVENS, MA

SCANNELL PROPERTIES

JOB NO : SJ2262
PA : MWY
DATE : 04.21.2021

REVISIONS

FOR REVIEW ONLY
DATE: 04/21/2021 DRAWN BY: TD
ISSUE: 75% PROGRESS SET

SHEET NUMBER
M1.3
HVAC - 2ND FLOOR PLAN