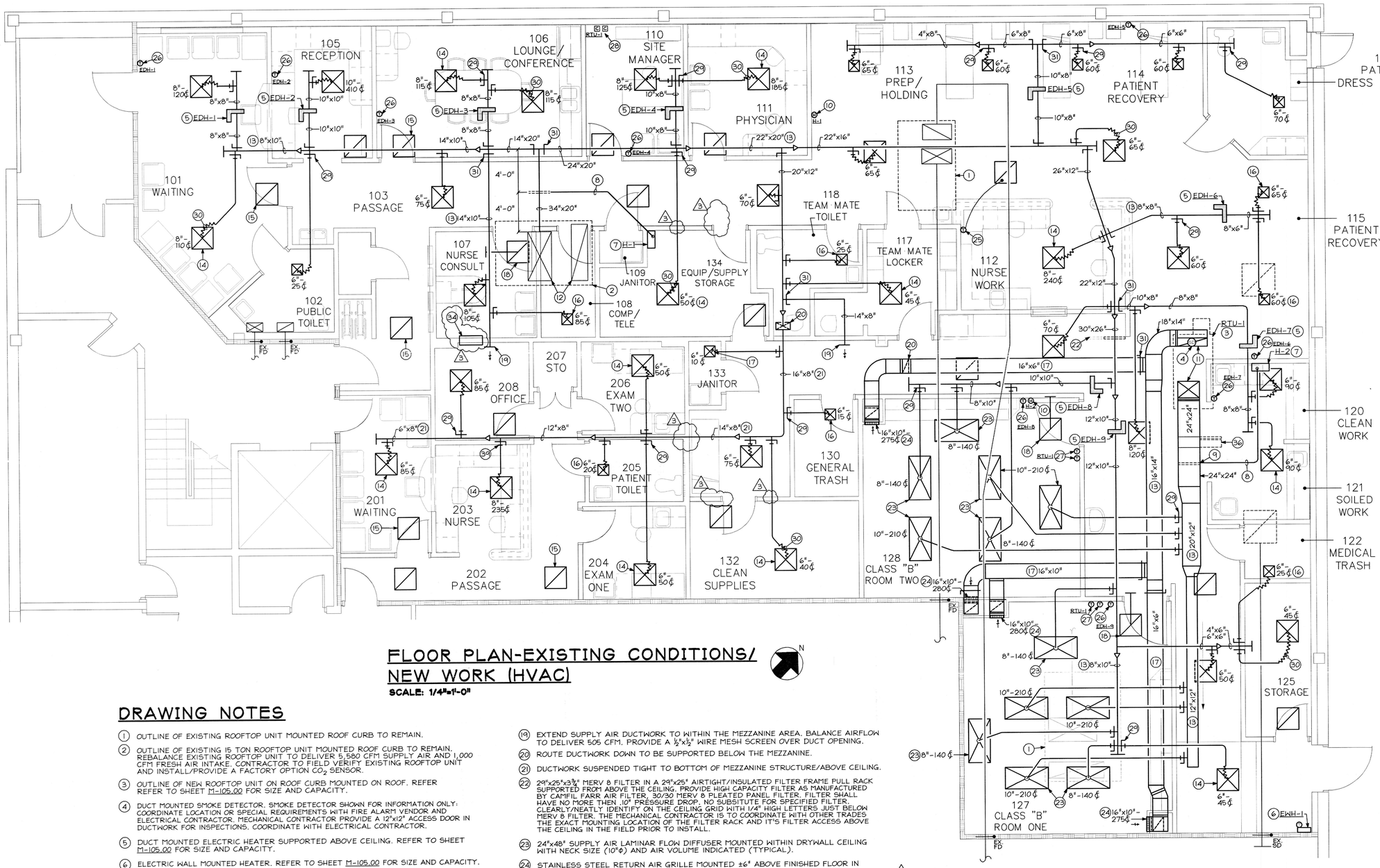

FLOOR PLAN-EXISTING CONDITIONS/ NEW WORK (HVAC)

SCALE: 1/4"=1'-0"

DRAWING NOTES

1. OUTLINE OF EXISTING ROOFTOP UNIT MOUNTED ROOF CURB TO REMAIN.
2. OUTLINE OF EXISTING 15 TON ROOFTOP UNIT MOUNTED ROOF CURB TO REMAIN. REBALANCE EXISTING ROOFTOP UNIT TO DELIVER 5,580 CFM SUPPLY AIR AND 1,000 CFM FRESH AIR INTAKE. CONTRACTOR TO FIELD VERIFY EXISTING ROOFTOP UNIT AND INSTALL/PROVIDE A FACTORY OPTION CO_2 SENSOR.
3. OUTLINE OF NEW ROOFTOP UNIT ON ROOF CURB MOUNTED ON ROOF. REFER REFER TO SHEET M-105.00 FOR SIZE AND CAPACITY.
4. DUCT MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHOWN FOR INFORMATION ONLY: COORDINATE LOCATION OR SPECIAL REQUIREMENTS WITH FIRE ALARM VENDOR AND ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR PROVIDE A 12"x12" ACCESS DOOR IN DUCTWORK FOR INSPECTIONS. COORDINATE WITH ELECTRICAL CONTRACTOR.
5. DUCT MOUNTED ELECTRIC HEATER SUPPORTED ABOVE CEILING. REFER TO SHEET M-105.00 FOR SIZE AND CAPACITY.
6. ELECTRIC WALL MOUNTED HEATER. REFER TO SHEET M-105.00 FOR SIZE AND CAPACITY.
7. WALL MOUNTED HUMIDIFIER. MOUNT AS HIGH AS POSSIBLE ON WALL JUST BELOW THE CEILING. REFER TO SHEET M-105.00 FOR SIZE AND CAPACITY AND DETAIL ON SHEET M-104.00 FOR MORE INFORMATION (TYPICAL).
8. SUPPORT 1½" COPPER STEAM/CONDENSATE RETURN LINE ABOVE CEILING.
9. DUCT MOUNTED STEAM DISTRIBUTOR. REFER TO DETAIL ON SHEET P-103.00 FOR MORE INFORMATION.
10. HUMIDISTAT THERMOSTAT TO BE MOUNTED ±48" ABOVE FINISHED FLOOR TO CONTROL HUMIDIFIER. PROVIDE A CLEAR VENTED LOCKABLE COVER FOR HUMIDISTAT. CLEARLY/ NEATLY IDENTIFY ABOVE THE HUMIDISTAT WITH 1/4" HIGH LETTERS.
11. SUPPLY/RETURN AIR DUCTWORK UP TO NEW ROOFTOP UNIT. TRANSITION DUCTWORK AS REQUIRED TO NEW ROOFTOP UNIT'S CONNECTION. PROVIDE FLEXIBLE CONNECTION IN DUCTWORK AT NEW UNIT CONNECTIONS.
12. SUPPLY AIR DUCTWORK UP TO EXISTING ROOFTOP UNIT. TRANSITION DUCTWORK AS REQUIRED TO EXISTING ROOFTOP UNIT'S CONNECTION. PROVIDE FLEXIBLE CONNECTION IN DUCTWORK AT NEW UNIT CONNECTIONS. CONTRACTOR TO FIELD VERIFY EXISTING RETURN DUCT AND PROVIDE A ½"x½" WIRE SCREEN OVER DUCT OPENING IF SO NEEDED.
13. SUPPLY AIR DUCTWORK SUSPENDED FROM STRUCTURE ABOVE CEILING (TYPICAL).
14. 24"x24" LOUVERED FACE SUPPLY AIR DEVICE MOUNTED WITHIN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
15. 24"x24" RETURN AIR GRILLE MOUNTED WITHIN ACOUSTICAL CEILING (TYPICAL).
16. 12"x12" LOUVERED FACE SUPPLY AIR DEVICE MOUNTED WITHIN ACOUSTICAL CEILING TILE WITH NECK SIZE AND AIR VOLUME INDICATED (TYPICAL).
17. RETURN AIR DUCTWORK SUSPENDED FROM STRUCTURE ABOVE CEILING (TYPICAL).
18. 24"x24" RETURN AIR GRILLE MOUNTED WITHIN ACOUSTICAL CEILING TILE WITH AIR TRANSFER ASSEMBLY. REFER TO SHEET M-104.00 FOR MORE INFORMATION.
19. EXTEND SUPPLY AIR DUCTWORK TO WITHIN THE MEZZANINE AREA. BALANCE AIRFLOW TO DELIVER 505 CFM. PROVIDE A ½"x½" WIRE MESH SCREEN OVER DUCT OPENING.
20. ROUTE DUCTWORK DOWN TO BE SUPPORTED BELOW THE MEZZANINE.
21. DUCTWORK SUSPENDED TIGHT TO BOTTOM OF MEZZANINE STRUCTURE/ABOVE CEILING.
22. 29"x25"x3¾" MERV 8 FILTER IN A 29"x25" AIRTIGHT/INSULATED FILTER FRAME PULL RACK SUPPORTED FROM ABOVE THE CEILING. PROVIDE HIGH CAPACITY FILTER AS MANUFACTURED BY CAMFIL FARR AIR FILTER, 30/30 MERV 8 PLEATED PANEL FILTER. FILTER SHALL HAVE NO MORE THEN .10" PRESSURE DROP. NO SUBSTITUTE FOR SPECIFIED FILTER. CLEARLY/NEATLY IDENTIFY ON THE CEILING GRID WITH 1/4" HIGH LETTERS JUST BELOW MERV 8 FILTER. THE MECHANICAL CONTRACTOR IS TO COORDINATE WITH OTHER TRADES THE EXACT MOUNTING LOCATION OF THE FILTER RACK AND IT'S FILTER ACCESS ABOVE THE CEILING IN THE FIELD PRIOR TO INSTALL.
23. 24"x48" SUPPLY AIR LAMINAR FLOW DIFFUSER MOUNTED WITHIN DRYWALL CEILING WITH NECK SIZE (10"Φ) AND AIR VOLUME INDICATED (TYPICAL).
24. STAINLESS STEEL RETURN AIR GRILLE MOUNTED ±6" ABOVE FINISHED FLOOR IN WALL WITH NECK SIZE AND AIR VOLUME INDICATED.
25. NEW THERMOSTAT TO BE MOUNTED ±48" ABOVE FINISHED FLOOR ON WALL TO CONTROL EXISTING ROOFTOP UNIT. PROVIDE/INSTALL A REMOTE AIR SENSOR FOR THE THERMOSTAT IN THE RETURN AIR GRILLE AS INDICATED. PROVIDE A CLEAR VENTED LOCKABLE COVER FOR THERMOSTAT.
26. HEATING ONLY THERMOSTAT TO BE MOUNTED ±48" ABOVE FINISHED FLOOR ON WALL TO CONTROL DUCT MOUNTED ELECTRIC HEATER. PROVIDE A CLEAR VENTED LOCKABLE COVER FOR THERMOSTAT.
27. DIGITAL TEMPERATURE/HUMIDITY SENSOR WIRED IN SERIES PARALLEL CONFIGURATION AVERAGING SENSOR TO BE MOUNTED ON THE WALL ±48" ABOVE FINISHED FLOOR. INTERLOCK WITH THE AAON'S VCMX CONTROLLER LOCATED IN THE ROOFTOP UNIT. HUMIDITY SENSOR TO SERVE AAON'S DEHUMIDIFICATION SYSTEM AND THE TEMPERATURE SENSOR WILL ONLY ALLOW HEATING/COOLING TEMPERATURE READINGS BACK TO AAON'S SYSTEM MANAGER AND SLIGHT AIR TEMPERATURE ADJUSTMENTS WITHIN THE PROCEDURE ROOM.
28. THE AAON SYSTEM MANAGER DIGITAL DISPLAY/CONTROLLER TO BE MOUNTED ±48" ABOVE FINISHED FLOOR ON WALL FOR REMOTE INTERFACE WITH THE VCMX CONTROLLER IN THE ROOFTOP UNIT. THERE WILL BE 2 THERMOSTATS MOUNTED IN EACH PROCEDURE ROOM THAT WILL SENSE AND GET AN AVERAGE OF THE ROOM TEMPERATURES. THIS INFORMATION WILL BE TRANSMIT BACK TO THE AAON SYSTEM MANAGER/CONTROLLER FOR THE AIR TEMPERATURE CONTROL TO BE PROCESSED.
29. AIR-TITE FITTING WITH DAMPER AND ADHESIVE GASKET (TYPICAL).
30. INSULATED/PLENUM RATED FLEXIBLE DUCTWORK (TYPICAL).
31. VOLUME DAMPER (TYPICAL).
32. SPARE.
33. SPARE.
34. 18"x10" AIR TRANSFER DUCT MOUNTED IN WALL ABOVE CEILING.
35. SPARE.
36. 24"x24"x11½" HEPA FILTER IN A 24"x24" FILTER PULL RACK ABOVE THE CEILING. PROVIDE HIGH CAPACITY FILTER AS MANUFACTURED BY CAMFIL AIR FILTER, FILTRA 2000, (FA 1560-01-01). FILTER SHALL HAVE NO MORE THEN 1.0" PRESSURE DROP. ALSO INCLUDED A MERV 8 CAMFIL 30/30 24"x24"x2" PREFILTER. CLEARLY/NEATLY IDENTIFY ON THE FILTER BOX AND ON THE CEILING GRID WITH 1/4" HIGH LETTERS HEPA FILTER. FILTER RACK WILL HOUSE THE HEPA AND PRE FILTER AS MAUNFACTURED BY CAMFIL, MAGNAPACK 70713202 M/P 4-12 PF 1 x 1. LASTLY PROVIDE/INSTALL PER MANUFACTURER'S RECOMMENDATIONS A DWYER 0-2" GAGE WITH A605 KIT. COORDINATE WITH THE GENERAL CONTRACTOR AND INSTALL THE MAGNEHELIC GAUGE IN 125 STORAGE ROOM.

DE-DUCT ALTERNATE

1) THE CONTRACTOR SHALL PROVIDE A DE-DUCT ALTERNATE PRICE FOR REUSING THE EXISTING DUCTWORK THAT HAS BEEN INSTALLED WITH THE EXISTING 15 TON ROOFTOP UNIT. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTING DUCTWORK AND TO REWORK AS REQUIRED TO PROVIDE THE DESIGN AIRFLOW INDICATED ON THE CONTRACT DOCUMENTS. ANY EXISTING DUCTWORK THAT IS REUSED SHALL BE CLEANED AND SEALED TO BE "LIKE NEW".

ISSUED FOR BUILDING PERMIT

To the best of my knowledge, belief and professional judgement, these plans and specifications are in compliance with Section 101.4.4 of the New York City Energy Conservation Code (NYCECC).

Richard J. Stern, P.E.
2741 Furnace Road
Felton, PA 17322
Phone: 717-891-6026

TENANT RENOVATIONS FOR:
Access Center
1733 Eastchester Road
Bronx, NY 10461

Lifeline Vascular Access

InSync ARCHITECTURAL DESIGNS, INC.
1213 Old Pylesville Road Whitelord, MD 21160
Office 410-452-8046 Fax 410-452-8046

1/8"=1'-0" 8' 16' 24'
1/4"=1'-0" 4' 8' 12'

FLOOR PLAN-NEW WORK (HVAC)

REVISIONS		
REV#	DATE	DESCRIPTION
1	7/16/13	OWNER'S REVISION
3	1/6/14	CONSTRUCTION REVISIONS

DRAWING NO. M-102.00
SHEET 2 OF 9
DATE 4/19/13 DRAWN BY DLI
JOB NUMBER 11206 CHECKED BY DLI
SDI# 2013-01H