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Building #17
Campus Expansion Child
Day-care Center

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

Gensler

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New York, NY 10019
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Structural Engineer

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MEP / IT / Security Engineer

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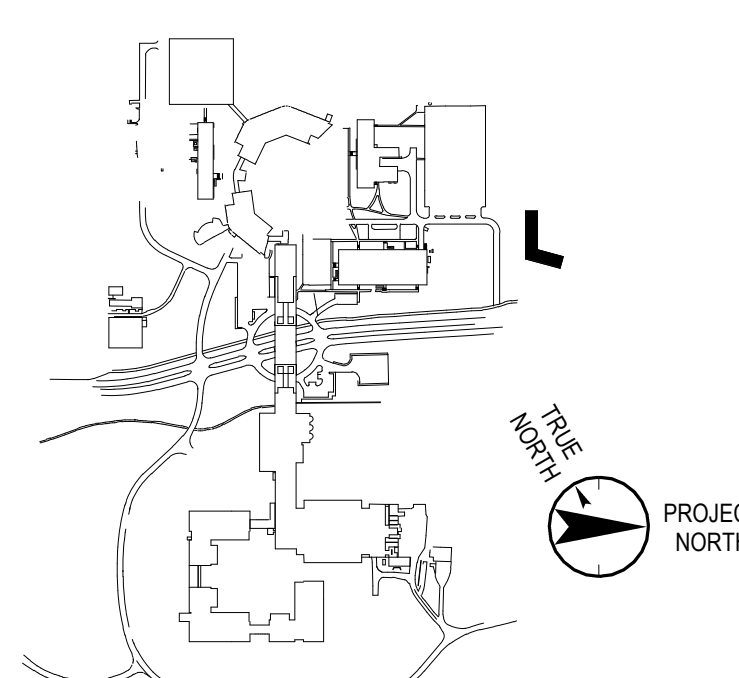
Civil Engineer

JMC
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Landscape Architect

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Key Plan



No. Date Description

0 05.20.2022 ISSUED FOR PERMIT
1 06.22.2022 100% CONSTRUCTION DOCUMENTS
2 07.01.2022 100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: GENSLER
Vendor Project No.: 006.3608.000
Discipline: Mechanical Drawn By: BC
**MECHANICAL 1ST FLOOR
DUCTWORK PLAN**

Scale: 1/8" = 1'-0" Floor: 1ST

M-100

AC UNIT RETURN AIR NOTES:
1. PROVIDE SPACE FOR MANUFACTURER PROVIDED FILTER KIT FOR MERV 14 FILTER.
2. PROVIDE THE FOLLOWING SIZES FOR RETURN PLENUM AND RETURN AIR DUCT THAT FACES ROOF. COORDINATE WITH EQUIPMENT MANUFACTURER.

0.5 TON: (899-AC-1-02F, 899-AC-1-03C)
20x8 PLENUM, 18x8 RETURN AIR DUCT

0.75 TON: (899-AC-1-01F, 899-AC-1-02G)
20x8 PLENUM, 18x8 RETURN AIR DUCT

1.0 TON: (899-AC-1-01G, 899-AC-1-02F, 899-AC-1-03E, 899-AC-1-04G, 899-AC-1-05E, 899-AC-1-05F)
24x8 PLENUM, 22x8 RETURN AIR DUCT

1.25 TON: (899-AC-1-01F)
36x10 PLENUM, 34x10 RETURN AIR DUCT

1.5 TON: (899-AC-1-01A, 899-AC-1-01B, 899-AC-1-02A, 899-AC-1-02B, 899-AC-1-04A)
38x12 PLENUM, 36x10 RETURN AIR DUCT

2.0 TON: (899-AC-1-01C, 899-AC-1-01D, 899-AC-1-02C, 899-AC-1-02D, 899-AC-1-03B, 899-AC-1-03D)
38x12 PLENUM, 36x10 RETURN AIR DUCT

2.5 TON: (899-AC-1-04B, 899-AC-1-04C, 899-AC-1-04F, 899-AC-1-05A, 899-AC-1-05C)
54x12 PLENUM, 52x12 RETURN AIR DUCT

4.0 TON: (899-AC-1-03A)
54x12 PLENUM, 52x12 RETURN AIR DUCT

SHEET NOTES:
1. DOAS SUPPLY AND RETURN DUCTWORK (INCLUDING BYPASS DUCT), TO BE PROVIDED WITH 1.5" INTERNAL ACOUSTICAL LINING FOR 25 FEET, IN ALL DIRECTIONS, FROM ROOF PENETRATION FOR NOISE ATTENUATION AND FOR A MINIMUM OF R-6 INSULATION. THE REMAINDER OF THE SUPPLY AND RETURN DUCTWORK FROM THE DOAS IS TO BE EXTERNALLY INSULATED.
2. TRANSFER DUCTS TO BE PROVIDED WITH 1" INTERNAL ACOUSTICAL LINING.
3. AC SUPPLY AND RETURN AIR DUCTWORK TO BE PROVIDED WITH EXTERNAL INSULATION PER SPECIFICATION AND CODE. (NO ACOUSTICAL LINING)
4. DRAWINGS SHOW CLEAR INSIDE DIMENSIONS.
5. ACOUSTICALLY WRAP AT ROOF PENETRATIONS, (EXCLUDING LAUNDRY).
6. ALL TRANSFER DUCTS AND RETURN AIR OPENINGS ARE TO BE PROVIDED WITH WIRE MESH SCREENS (WMS)

CODE NOTES:
1) WHEREVER REQUIRED AND ACCEPTED, FLEXIBLE AIR DUCT AND/OR FLEXIBLE AIR CONNECTORS SHALL BE TESTED IN ACCORDANCE WITH UL 181, LISTED AND LABELED AS CLASS 0 OR CLASS 1, AND SHALL BE INSTALLED PER REQUIREMENTS OF THEIR LISTING, THE MANUFACTURER INSTALLATION INSTRUCTIONS, SPECIFICATION SECTION 233300, AND THE MCNYS CODE SECTIONS 603.6.1, 603.6.2, AND 304.1.

SHEET DIFFUSER NOTES:
1. CR-2 RETURN GRILLES TO HAVE 15" NECK FOR UP TO 750 CFM OF RETURN AT NC OF 20.
THESE RETURN GRILLE ARE TO BE DISCRETELY TAGGED TO NOTE TO MAINTENANCE STAFF RETURN AIR FUNCTION.
2. CD-5 IN CORRIDOR TO HAVE 8" NECK AND BE PROVIDED WITH MODEL DB BAFFLES FOR 2-DIRECTIONAL AIR FLOW.
3. INACTIVE LINEARS TO SERVE AS RETURN AIR PATHWAYS.

