HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
	AIR VENT - MANUAL
	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOIND VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
TT	THERMOSTATIC TRAP
FT	FLOAT & THERMOSTATIC TRAP
BT	BUCKET TRAP
TD	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
Ø	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
SD	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10 / 12X10 / 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
P	POINT OF CONNECTION
D	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
RISE	RISE IN DUCT
DROP	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø D-3 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
16"x16" G-3 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8" R-2 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8" G-2 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY AIR TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
	LONG RADIUS 90° ELBOW R/W=1.5
	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
	90 VERTICAL SPLIT OFF (PLAN VIEW)
	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE COIL SIZE CLNG GPM HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
	HUMIDITY SENSOR (DUCT MOUNTED)
	FLOW TRANSMITTER
	PRESSURE TRANSMITTER
	DIFFERENTIAL PRESSURE TRANSMITTER
	ELECTRIC/PNEUMATIC TRANSDUCER
	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
T	SPACE THERMOSTAT
T	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
G	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
	PNEUMATIC ACTUATOR
	ELECTRIC ACTUATOR
VSD / VFD	VARIABLE SPEED / FREQUENCY DRIVE
	COOLING COIL
	HEATING COIL
	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
DPT	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FS	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PF	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1. VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

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NY ENGINEERING FIRM CERTIFICATE #0021419

PROJECT INFORMATION

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Client Name
GREENWOOD LAKE UNION FREE DISTRICT

Project Name
2023 CAPITAL IMPROVEMENT PROJECT

District Office Address
PO BOX 8, GREENWOOD LAKE, NY 10925

GREENWOOD LAKE UFSD
- ☐ GREENWOOD LAKE ES SED NO. 44-21-11-02-0-002-016
- ☐ GREENWOOD LAKE MS SED NO. 44-21-11-02-0-001-027

Registration Expiration Dates

Lauren Tarola	09/30/26
Anthony Mascheti	05/31/27
Dave Hart	02/28/25
Jennifer Wengender	06/30/27
Larry Wertz	12/31/24
Greg Bohrer	07/31/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

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10/28/2024

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Drawing Title
HVAC SYMBOLS LEGEND AND CONTRACTOR NOTES

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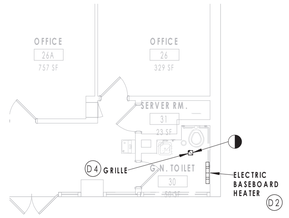
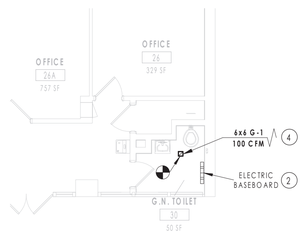
GEN
H000



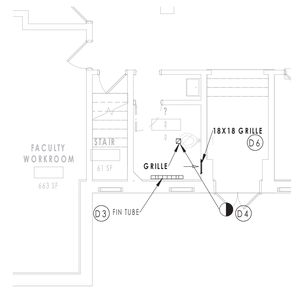
1 H201 MECHANICAL DEMOLITION PLAN AREA A.1

1/8" = 1'-0"



2 H201 MECHANICAL NEW WORK PLAN AREA A.1

1/8" = 1'-0"



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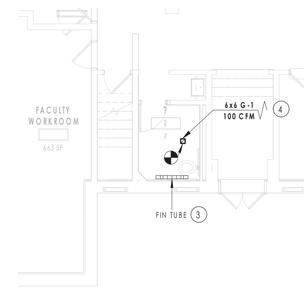

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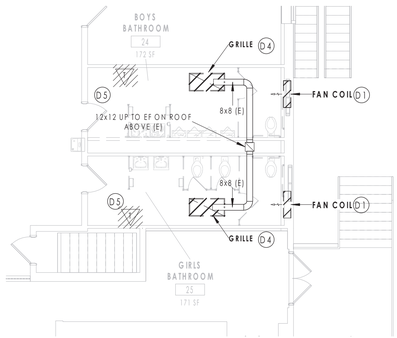

5 H201 MECHANICAL DEMOLITION PLAN AREA A.3

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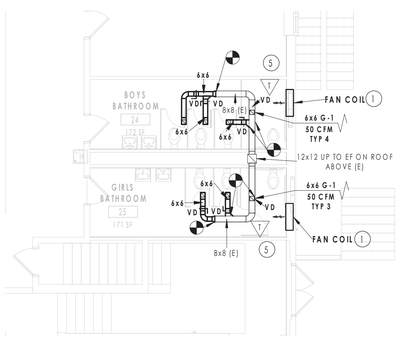


6 H201 MECHANICAL NEW WORK PLAN AREA A.3

1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM ALL DUCT SIZES AND LOCATION PRIOR TO DEMOLITION.

DEMOLITION NOTES

D1 REMOVE EXISTING WALL RECESSED FAN COIL UNIT AND DISCONNECT FROM HHWS&HHWR PIPING CLEAN AND SAVE FOR REINSTALLATION.

D2 REMOVE EXISTING ELECTRIC BASEBOARD HEATER. COORDINATE REMOVAL WITH E.C. CLEAN AND SAVE FOR REINSTALLATION.

D3 REMOVE EXISTING FIN TUBE RADIATOR. DISCONNECT FROM HHWS&HHWR PIPIPNG. CLEAN AND SAVE FOR REINSTALLATION.

D4 REMOVE EXISTING CEILING MOUNTED RETURN GRILLE. PREPARE FOR NEW WORK.

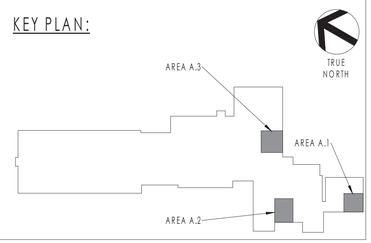
D5 REMOVE EXISTING WALL MOUNTED THERMOSTAT. PREPARE FOR NEW WORK.

D6 REMOVE EXISTING 18X18 GRILLE MOUNTED NEAR THE FLOOR. COORDINATE WITH G.C.

KEY NOTES

1. REINSTALL EXISTING WALL RECESSED FAN COIL SAME LOCATION AS REMOVED UNIT. RECONNECT TO EXISTING HHWS&HHWR PIPING. PROVIDE NEW CONTROL VALVE AND CONNECT TO EXISTING BMS SYSTEM.
2. REINSTALL EXISTING ELECTRIC BASEBOARD HEATER IN SAME LOCATION. COORDINATE WITH E.C.
3. REINSTALL EXISTING FIN TUBE IN SAME LOCATION. RECONNECT TO EXISTING HHWS&HHWR PIPING.
4. FURNISH AND INSTALL GRILLE AND VOLUME DAMPER. RECONNECT TO EXISTING DUCTWORK. MODIFY DUCTWORK AS NECESSARY FOR RECONNECTION.
5. PROVIDE NEW WALL MOUNTED TEMPERATURE SENSOR IN NEW LOCATION SHOWN AND CONNECT TO EXISTING FAN COIL.

KEY PLAN:



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NY ENGINEERING FIRM CERTIFICATE #0021419

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- GREENWOOD LAKE MS SED NO. 44-21-11-02-0-001-027

Registration Expiration Dates

Lauren Tarsia	09/30/26
Anthony Moschetti	05/31/27
Dave Hart	02/28/25
Jennifer Wengender	06/30/27
Larry Wertz	12/31/24
Greg Bohrer	07/31/27

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1/8" = 1'-0"

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AJS

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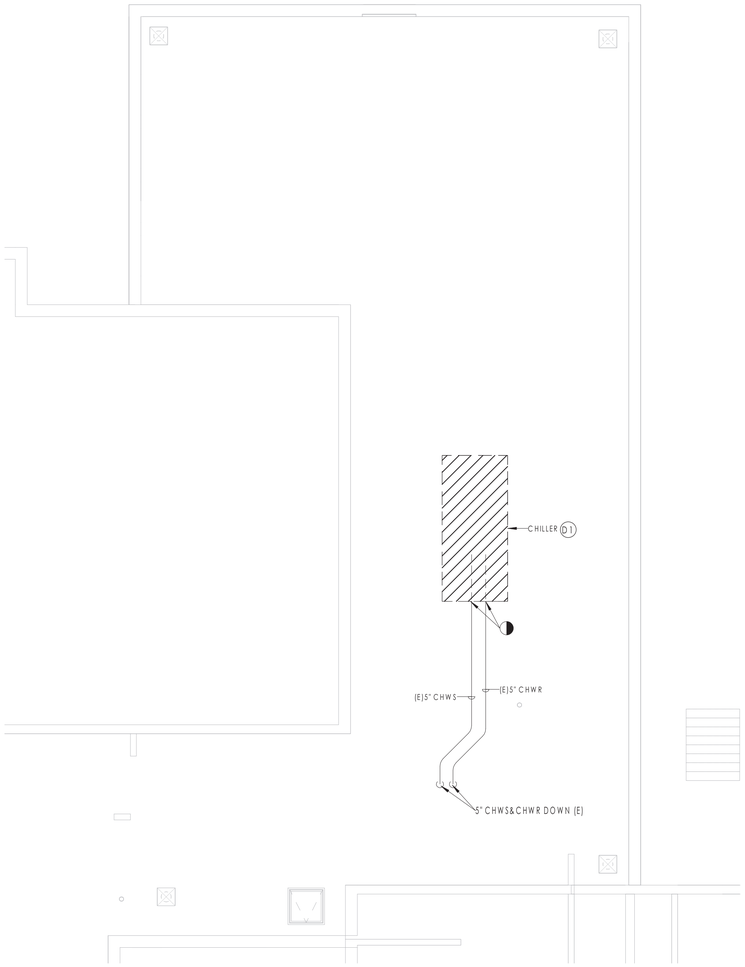
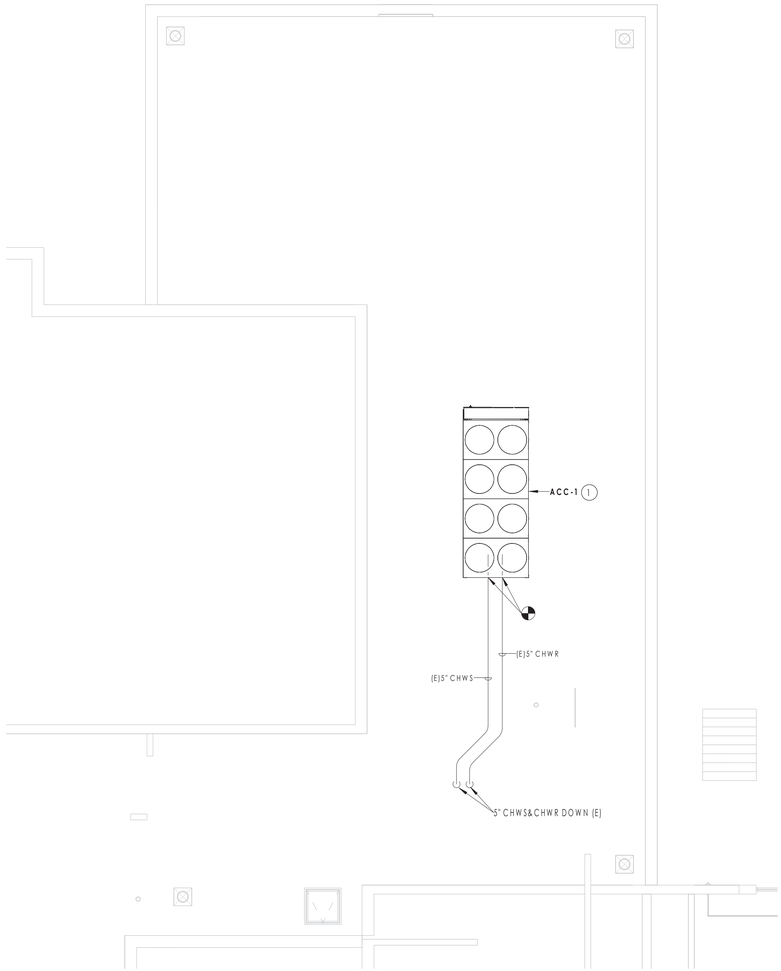
ELEMENTARY SCHOOL FIRST FLOOR MECHANICAL DEMOLITION AND NEW WORK PLANS

Drawing Number
ES
H201

10/28/2024 11:37:06 AM c:\project location\1D Design & Project Files on BIM 360



1 H202 **ALTERNATE MC-01 MECHANICAL ROOF DEMOLITION PLAN**
1/8" = 1'-0"



2 H202 **ALTERNATE MC-01 MECHANICAL ROOF NEW WORK PLAN**
1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM ALL DUCT SIZES AND LOCATION PRIOR TO DEMOLITION.

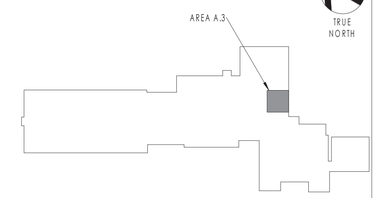
DEMOLITION KEY NOTES

D1 ALTERNATE MC-01: REMOVE EXISTING ROOF MOUNTED CHILLER IN ITS ENTIRETY AND DISCONNECT FROM EXISTING CHILLED WATER SUPPLY AND RETURN PIPING. EXISTING STRUCTURAL STEEL SUPPORTS TO REMAIN. PREPARE FOR NEW WORK.

KEY NOTES

1 ALTERNATE MC-01: FURNISH AND INSTALL NEW AIR COOLED CHILLER IN LOCATION OF REMOVED CHILLER ON EXISTING STRUCTURAL SUPPORTS AND RECONNECT TO EXISTING CHILLED WATER SUPPLY AND RETURN PIPING. MODIFY PIPING AS NECESSARY FOR RECONNECTION. TIE CHILLER INTO EXISTING BMS CONTROLS SYSTEM.

KEY PLAN:



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#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

Issued	Scale
10/28/2024	1/8" = 1'-0"

Project Status
BID DOCUMENTS

Drawn By	Checked By
BKM	AJS

Drawing Title
ALTERNATE MC-01 ELEMENTARY SCHOOL ROOF MECHANICAL DEMOLITION AND NEW WORK PLANS

Drawing Number
ES
H202

11/4/2024 10:55:03 AM <project location>\0 Design & Project Files on BIM 360

KEY NOTES

1. REMOVE EXISTING EXHAUST FAN/GRAVITY VENT AND CURB AND DISCONNECT FROM EXISTING DUCTWORK BELOW. CLEAN AND SAVE UNIT FOR REINSTALLATION.
2. REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING CURB, CONTROLS, AND ALL ASSOCIATED DUCTWORK. PREPARE FOR NEW WORK.

1 / H103 **ROOF MECHANICAL DEMOLITION PLAN**
1/16" = 1'-0"

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26 IBM Road
Poughkeepsie, NY 12601
CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

PROJECT INFORMATION

Project Number
R23.00331.00

Client Name
GREENWOOD LAKE UNION FREE SCHOOL DISTRICT

Project Name
2023 CAPITAL IMPROVEMENT PROJECT

District Office Address
PO BOX 8, GREENWOOD LAKE, NY 10925

GREENWOOD LAKE UFSD
- ☐ GREENWOOD LAKE ES SED NO. 44-21-11-02-0-002-016
- ■ GREENWOOD LAKE MS SED NO. 44-21-11-02-0-001-027

Registration Expiration Dates

Lauren Tonio	09/30/26
Anthony Mascheti	05/31/27
Dave Hart	02/28/25
Jennifer Wengender	06/30/27
Larry Wertz	12/31/24
Greg Bohrer	07/31/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

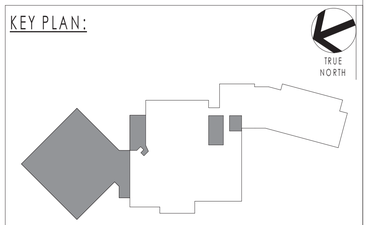
SHEET INFORMATION

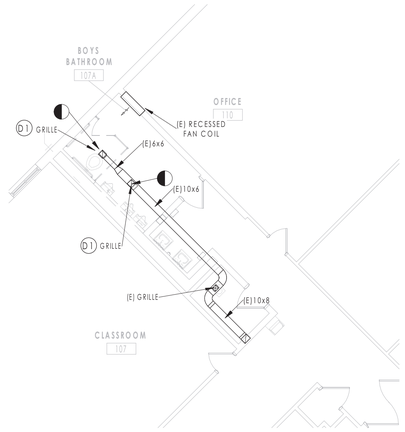
Issued	Scale
10/28/2024	As indicated
Project Status	
BID DOCUMENTS	
Drawn By	**Checked By**
BKM	AJS

Drawing Title
MIDDLE SCHOOL ROOF MECHANICAL DEMOLITION PLAN

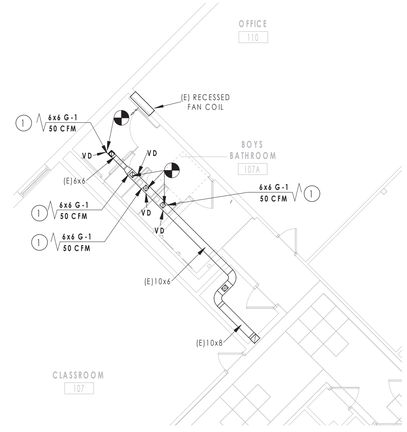
Drawing Number
MS H103

KEY PLAN:

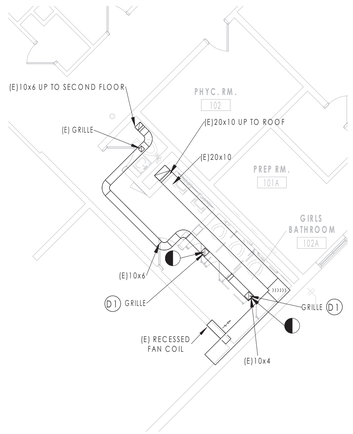




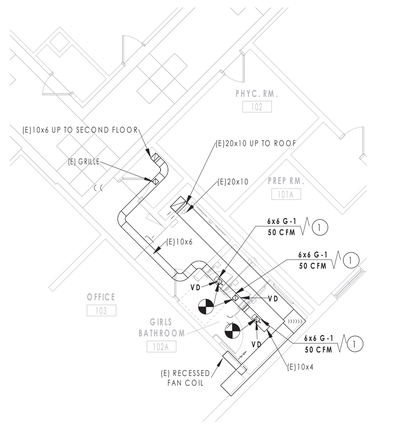
1 H201A **FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA A.1**
1/8" = 1'-0"



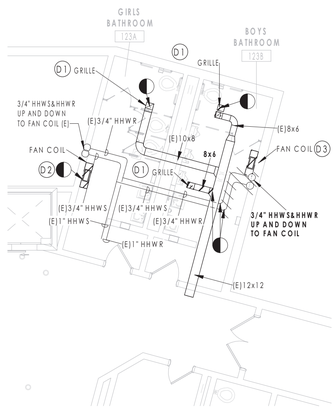
2 H201A **FIRST FLOOR MECHANICAL NEW WORK PLAN AREA A.1**
1/8" = 1'-0"



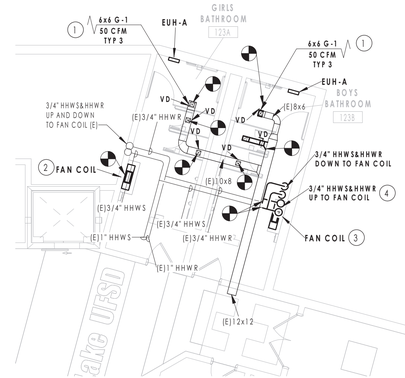
3 H201A **FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA A.2**
1/8" = 1'-0"



4 H201A **FIRST FLOOR MECHANICAL NEW WORK PLAN AREA A.2**
1/8" = 1'-0"



5 H201A **FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA C.1**
1/8" = 1'-0"



6 H201A **FIRST FLOOR MECHANICAL NEW WORK PLAN AREA C.1**
1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM ALL SIZES AND LOCATIONS PRIOR TO DEMOLITION.

DEMOLITION KEY NOTES

D1 REMOVE EXISTING GRILLE FROM DUCTWORK, PREPARE FOR NEW WORK.

D2 REMOVE FAN COIL, DISCONNECT FROM HOT WATER SUPPLY AND RETURN PIPING, CLEAN AND SAVE FOR REINSTALL.

D3 REMOVE FAN COIL AND HOT WATER SUPPLY AND RETURN PIPING POINTS INDICATED. ABANDON PIPING IN WALL AS NECESSARY.

KEY NOTES

1. FURNISH AND INSTALL EXHAUST GRILLE. MODIFY DUCTWORK AS NECESSARY FOR RECONNECTION AND PROVIDE VOLUME DAMPER.
2. REINSTALL EXISTING FAN COIL UNIT IN SAME LOCATION. RECONNECT TO EXISTING HHWS & HHWR PIPING. MODIFY PIPING AS NECESSARY FOR RECONNECTION. MAINTAIN EXISTING CONTROLS.
3. REINSTALL EXISTING FAN COIL UNIT IN NEW LOCATION. PROVIDE NEW 3/4" HHWS & HHWR PIPING FROM POINT INDICATED DOWN TO FAN COIL IN NEW PIPE CHASE. COORDINATE WITH G.C. MAINTAIN EXISTING CONTROLS.
4. PROVIDE 3/4" HHWS & HHWR PIPING UP TO FAN COIL ON SECOND FLOOR BATHROOM ABOVE.

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R23.00331.00

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SHEET INFORMATION

Issued	Scale
10/28/2024	1/8" = 1'-0"

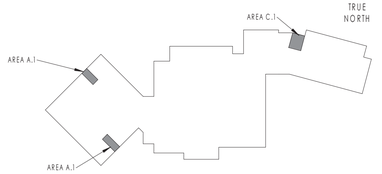
Project Status
BID DOCUMENTS

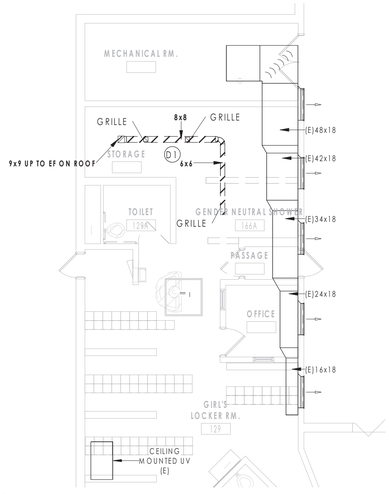
Drawn By	Checked By
BKM	AJS

Drawing Title
MIDDLE SCHOOL FIRST FLOOR MECHANICAL DEMOLITION AND NEW WORK PLANS

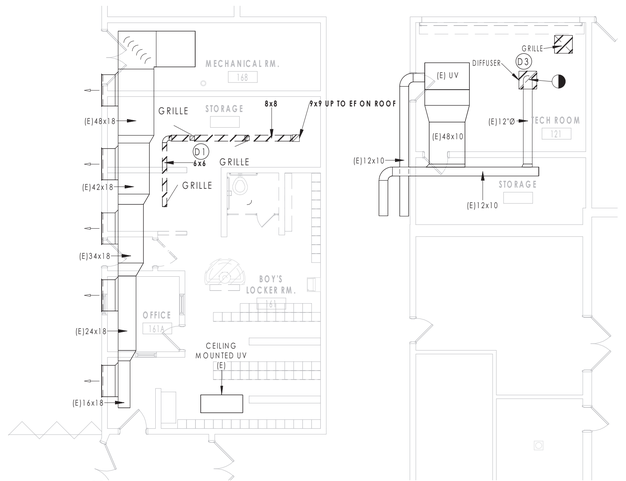
Drawing Number
MS H201A

KEY PLAN:

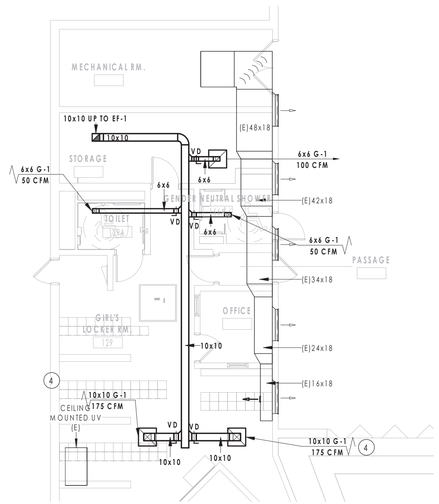




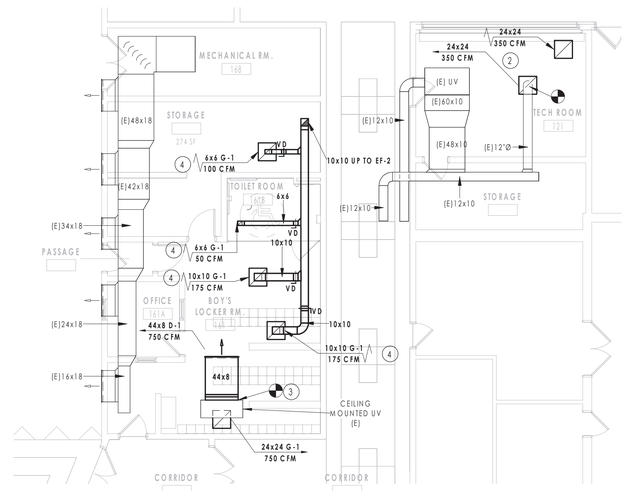
1 H201B **FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA B.1**
1/8" = 1'-0"



2 H201B **FIRST FLOOR MECHANICAL DEMOLITION PLAN AREA B.2**
1/8" = 1'-0"



3 H201B **FIRST FLOOR MECHANICAL NEW WORK PLAN AREA B.1**
1/8" = 1'-0"



4 H201B **FIRST FLOOR MECHANICAL NEW WORK PLAN AREA B.2**
1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM ALL SIZES AND LOCATIONS PRIOR TO DEMOLITION.

DEMOLITION KEY NOTES

(D1) REMOVE EXISTING EXHAUST GRILLES AND DUCTWORK UP TO EXHAUST FAN ON ROOF. PREPARE FOR NEW WORK.

(D2) REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING CURB, CONTROLS, AND ALL ASSOCIATED DUCTWORK.

(D3) REMOVE EXISTING GRILLE AND DIFFUSER. DISCONNECT FROM ANY DUCTWORK. CLEAN AND SAVE FOR THE RE-INSTALLLATION.

KEY NOTES

(1) FURNISH AND INSTALL NEW EXHAUST FAN IN LOCATION OF REMOVED FAN. M.C. TO FURNISH CURB AND MARKOUT LOCATION. COORDINATE WITH G.C. CONNECT NEW FAN CONTROLS TO EXISTING BMS SYSTEM.

(2) REINSTALL EXISTING GRILLE AND DIFFUSER IN NEW CEILING. RECONNECT TO ANY DUCTWORK. MODIFY DUCTWORK AS NECESSARY FOR RECONNECTION.

(3) FURNISH AND INSTALL SUPPLY GRILLE ON NEW SOFFIT AND DUCT TO EXISTING UNIT VENTILATOR SUPPLY OPENING. COORDINATE WITH G.C.

(4) PROVIDE GRILLE WITH 24X24 LAY IN MODULE.

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CPLteam.com

NY ENGINEERING FIRM CERTIFICATE #0021419

PROJECT INFORMATION

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R23.00331.00

Client Name
GREENWOOD LAKE UNION FREE SCHOOL DISTRICT

Project Name
2023 CAPITAL IMPROVEMENT PROJECT

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Registration Expiration Dates

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Dave Hart	02/28/25
Jennifer Wengender	06/30/27
Larry Wertz	12/31/24
Greg Bohrer	07/31/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

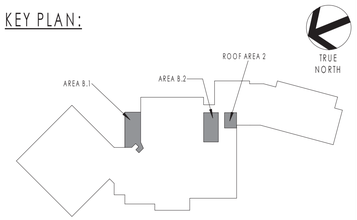
SHEET INFORMATION

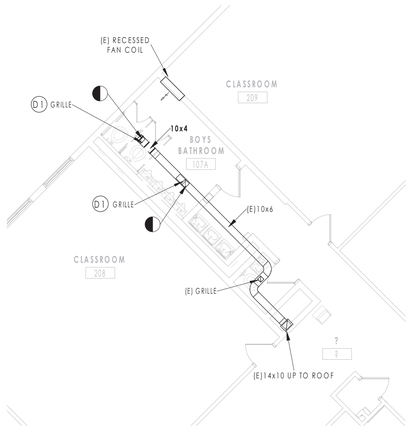
Issued	Scale
10/28/2024	1/8" = 1'-0"
Project Status	
BID DOCUMENTS	
Drawn By	Checked By
BKM	AJS

Drawing Title
MIDDLE SCHOOL FIRST FLOOR MECHANICAL DEMOLITION AND NEW WORK PLANS

Drawing Number
MS H201B

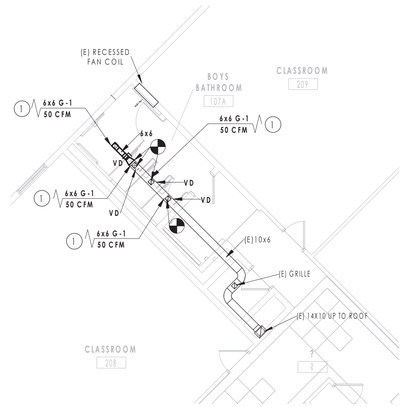
KEY PLAN:





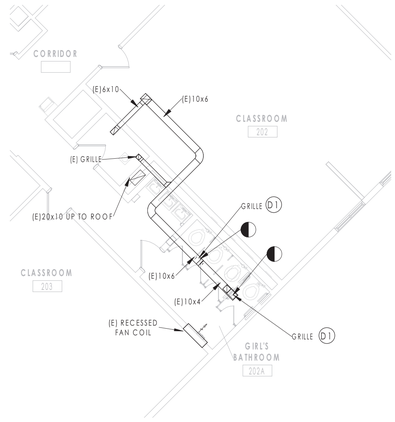
1 H202 SECOND FLOOR MECHANICAL DEMOLITION PLAN BOYS BATHROOM 207A

1/8" = 1'-0"



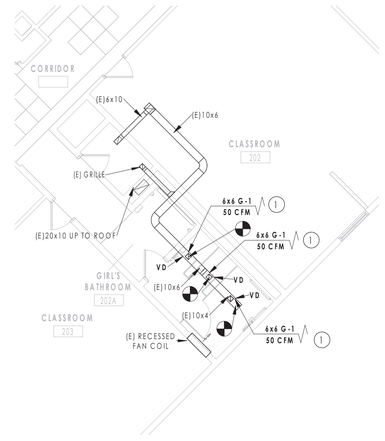
2 H202 SECOND FLOOR MECHANICAL NEW WORK PLAN BOYS BATHROOM 207A

1/8" = 1'-0"



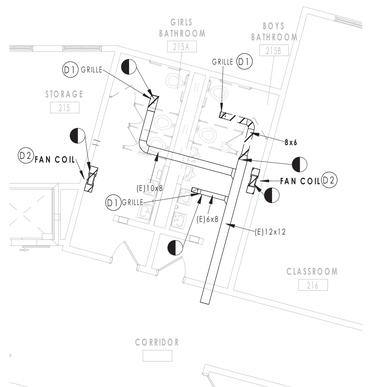
3 H202 SECOND FLOOR MECHANICAL DEMOLITION PLAN GIRLS BATHROOM 202A

1/8" = 1'-0"



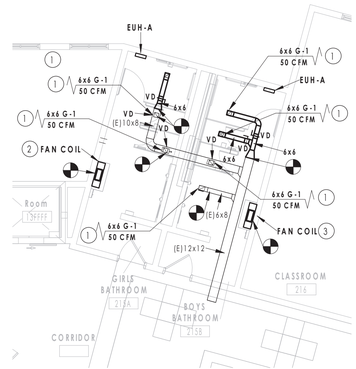
4 H202 SECOND FLOOR MECHANICAL NEW WORK PLAN GIRLS BATHROOM 202A

1/8" = 1'-0"



5 H202 SECOND FLOOR MECHANICAL DEMOLITION PLAN BOYS AND GIRLS BATHROOM 215A&B

1/8" = 1'-0"



6 H202 SECOND FLOOR MECHANICAL NEW WORK PLAN BOYS AND GIRLS BATHROOM 215A&B

1/8" = 1'-0"

GENERAL NOTES

1. CONFIRM ALL SIZES AND LOCATIONS PRIOR TO DEMOLITION.

DEMOLITION KEY NOTES

(D1) DISCONNECT EXISTING GRILLE FROM DUCTWORK, PREPARE FOR NEW WORK.

(D2) REMOVE FAN COIL, DISCONNECT FROM HOT WATER SUPPLY AND RETURN PIPING, CLEAN AND SAVE FOR REINSTALL.

KEY NOTES

(1) FURNISH AND INSTALL NEW EXHAUST GRILLE. RECONNECT TO EXISTING DUCTWORK.

(2) REINSTALL EXISTING FAN COIL UNIT. RECONNECT TO EXISTING HHWS & HHWR PIPING. MODIFY PIPING AS NECESSARY FOR RECONNECTION. MAINTAIN EXISTING CONTROLS

(3) REINSTALL EXISTING FAN COIL UNIT IN NEW LOCATION SHOWN. CONNECT TO HHWS & HHWR PIPING BELOW. SEE FIRST FLOOR PLAN FOR CONTINUATION. MAINTAIN EXISTING CONTROLS.

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PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

Issued	Scale
10/28/2024	1/8" = 1'-0"

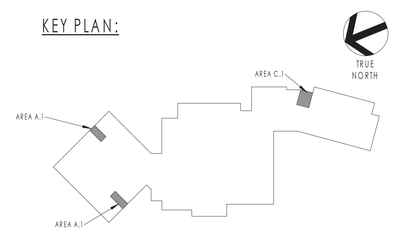
Project Status
BID DOCUMENTS

Drawn By	Checked By
BKM	AJS

Drawing Title
MIDDLE SCHOOL SECOND FLOOR MECHANICAL DEMOLITION AND NEW WORK PLANS

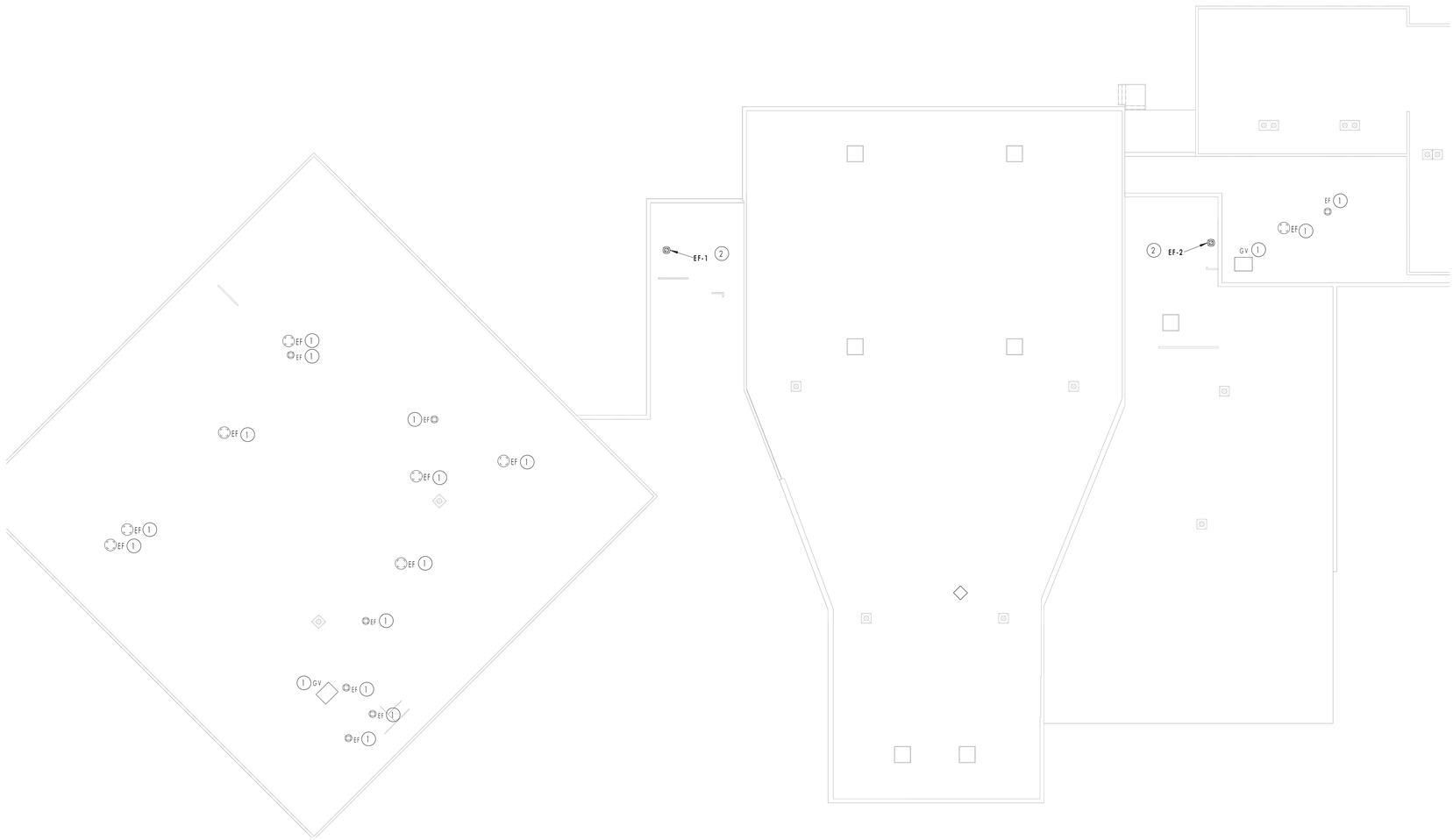
Drawing Number
MS H202

KEY PLAN:



KEY NOTES

1. REINSTALL EXHAUST FAN/GRAVITY IN SAME LOCATION AND RECONNECT TO EXISTING DUCTWORK. M.C. TO FURNISH AND MARK OUT LOCATION OF NEW CURB AND COORDINATE WITH G.C. MAINTAIN EXISTING CONTROLS. EXTEND DUCTWORK TO RECONNECT TO EXISTING UNIT.
2. FURNISH AND INSTALL NEW EXHAUST FAN IN LOCATION OF REMOVED FAN. M.C. TO FURNISH NEW CURB AND MARK OUT LOCATION. COORDINATE WITH G.C. CONNECT NEW FAN CONTROLS TO EXISTING BMS SYSTEM.



1 / H203 **ROOF 6 MECHANICAL NEW WORK PLAN**
1/16" = 1'-0"

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10/28/2024	As indicated

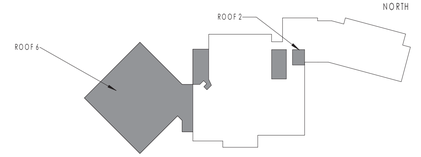
Project Status
BID DOCUMENTS

Drawn By	Checked By
BKM	AJS

Drawing Title
MIDDLE SCHOOL ROOF MECHANICAL NEW WORK PLAN

Drawing Number
MS H203

KEY PLAN:



TRUE NORTH

10/28/2024 1:02:47 PM <project location>\D Design & Project Files on BIM 360

ALTERNATE MC-01 CHILLER SCHEDULE (AIR COOLED)

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	NOMINAL TON	CAPACITY (MBH)	NUMBER OF COMPRESSORS	CIRCUITS	COMPRESSOR TYPE	GPM	FLUID	EWT (°F)	LWT (°F)	WPD (FT.WG)	FOUL FACTOR	REFRIGERANT		ELECTRICAL DATA					KW/TON	NPLV.IP	WEIGHT (LBS)	NOTES
																TYPE	CHARGE (LBS)	V	PH	HZ	MCA	MOP				
ACC-1	ROOF	COLD WATER SYSTEM	TRANE	ACSA1402AUA	140	1582	4	2	SCREW TYPE	315.29	WATER	55	45	12.55	0.0001	R-454B	50	208	3	60	627	700	1.1	17.943	7897	1,2,3

NOTES:
1. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. PROVIDE BACKNET CAPABILITIES AND CONNECT NEW UNIT TO EXISTING TRANE BMS SYSTEM.
3. SUPERIOR SOUNDS PACKAGE WITH NOISE REDUCTION.

FAN SCHEDULE

TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	CFM	ESP (IN.WG.)	DRIVE	ELECTRICAL						SONES	WEIGHT (LBS)	NOTES
									BHP	MOTOR HP	MOTOR RPM	V	PH	HZ			
EF-1	ROOF	GIRLS LOCKER ROOM	GREENHECK	G-95-VG	DOWNBLAST	450	0.66	DIRECT	0.12	0.17	1578	115	1	60	10.5	29	1,2,3
EF-2	ROOF	BOYS LOCKER ROOM	GREENHECK	G-95-G	DOWNBLAST	500	0.34	DIRECT	0.07	1/12	1300	115	1	60	6.4	31	1,2,3

NOTES:
1. FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. BACKDRAFT DAMPER.
3. PROVIDE WITH ECM CONTROLLED MOTOR AND BACKNET CAPABILITIES. CONNECT TO EXISTING TRANE BMS SYSTEM.

UNIT HEATER SCHEDULE (ELECTRIC) (EUH)

TAG	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	KW	CAPACITY (MBH)	ELECTRICAL				WEIGHT (LBS)	NOTES
							V	HZ	PH	AMPS		
EUH-A	SEE PLANS	INDEECO	932U01500V	160	1.125	3.8	208	60	1	5.8	24	1,2,3,4

NOTES:
1. PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
2. COLOR TO BE SELECTED BY ARCHITECT.
3. WALL RECESSED UNIT.
4. PROVIDE WITH UNIT MOUNTED TEMPERATURE CONTROLS AND TAMPERPROOF THERMOSTAT KIT.

GREENWOOD LAKE ELEMENTARY SCHOOL VENTLATION CALCS

SPACE	OCCUPANCY CLASSIFICATION	TOTAL SQ. FT.	EXHAUST RATE CFM (PER FIXTURE)	FIXTURE COUNT	TOTAL EXHAUST REQUIRED (CFM)
BOYS BATHROOM 24	TOILET ROOMS - PUBLIC	172.0	50.0	4.0	200
GIRLS BATHROOM 25	TOILET ROOMS - PUBLIC	172.0	50.0	3.0	150
GENDER NEUTRAL 30	TOILET ROOMS - PUBLIC	64.0	50.0	1.0	50
GENDER NEUTRAL	TOILET ROOMS - PUBLIC	50.0	50.0	1.0	50

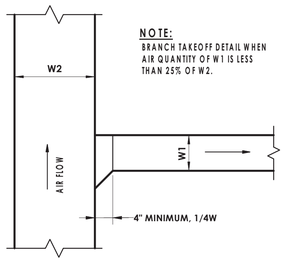
MS REGISTER, GRILLE, AND DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	MATERIAL	TYPE	FINISH	NOTES
D-1	PRICE	510	SUPPLY	STEEL	SURFACE MOUNT	WHITE	
G-1	PRICE	530	EXHAUST	STEEL	SURFACE MOUNT	WHITE	1

NOTES: 1. 45° DEFLECTION, 3/4" BLADE SPACING

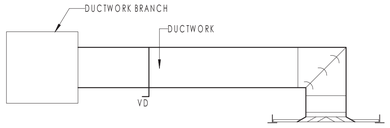
GREENWOOD LAKE MIDDLE SCHOOL VENTILATION CALCS

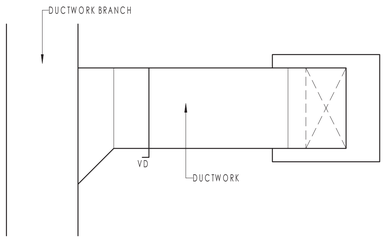
SPACE	OCCUPANCY CLASSIFICATION	TOTAL SQ. FT.	EXHAUST RATE (CFM/FT^2)	EXHAUST RATE CFM (PER FIXTURE)	FIXTURE COUNT	TOTAL EXHAUST REQUIRED (CFM)	PROVIDED CFM
BOYS BATHROOM 107A	TOILET ROOMS - PUBLIC	119.0		50	4	200	200
GIRLS BATHROOM 102A	TOILET ROOMS - PUBLIC	117.0		50	3	150	150
BOYS BATHROOM 123B	TOILET ROOMS - PUBLIC	169.0		50	3	150	150
GIRLS BATHROOM 123A	TOILET ROOMS - PUBLIC	177.0		50	3	150	150
GIRLS LOCKER ROOM 129	SPORTS LOCKER ROOMS	666.0	0.5			333	350
GIRLS LOCKER ROOM TOILET 129	TOILET ROOMS - PUBLIC	49.0		50	1	50	50
GIRLS LOCKER ROOM SHOWER 129	SHOWER ROOM	65.0		20	1	20	50
BOYS LOCKER ROOM 161	SPORTS LOCKER ROOMS	408.0	0.5			204	350
BOYS LOCKER ROOM TOILET 161	TOILET ROOMS - PUBLIC	37.0		50	1	50	50
BOYS LOCKER ROOM SHOWER AREA 161	SHOWER ROOM	30.0		20	1	20	50
BOYS BATHROOM 207A	TOILET ROOMS - PUBLIC	125.0		50	4	200	200
GIRLS BATHROOM 202A	TOILET ROOMS - PUBLIC	117.0		50	3	150	150
BOYS BATHROOM 215	TOILET ROOMS - PUBLIC	178.0		50	3	150	150
GIRLS BATHROOM 214	TOILET ROOMS - PUBLIC	177.0		50	3	150	150



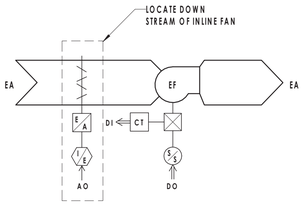
NOTE:
BRANCH TAKEOFF DETAIL WHEN AIR QUANTITY OF W1 IS LESS THAN 25% OF W2.

1 H900 **BRANCH TAKE-OFF DETAIL**
NOT TO SCALE

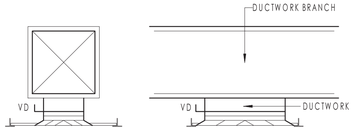




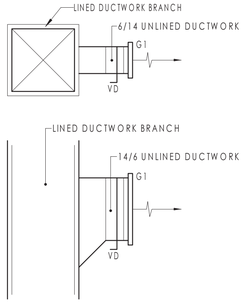
2 H900 **GRILLE DETAIL 1**
NOT TO SCALE



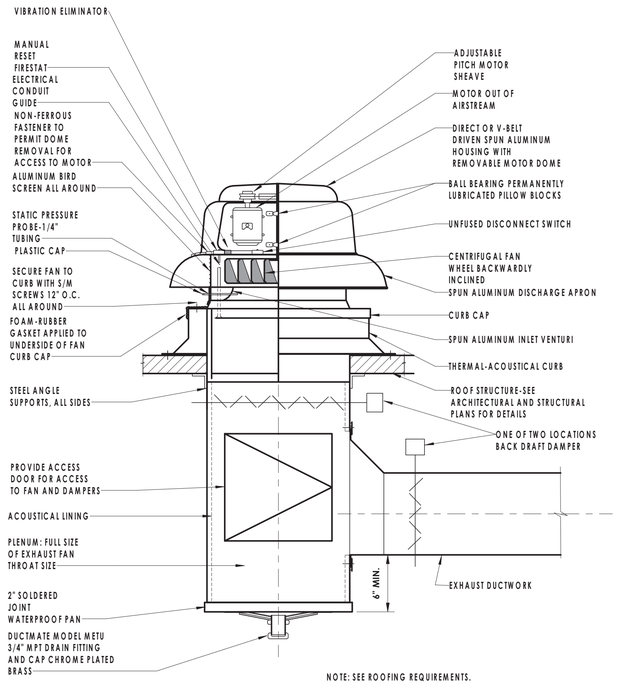
6 H900 **TYPICAL EXHAUST FAN**
NOT TO SCALE



3 H900 **GRILLE DETAIL 2**
NOT TO SCALE



4 H900 **GRILLE G-1 DETAIL**
NOT TO SCALE



NOTE: SEE ROOFING REQUIREMENTS.

5 H900 **ROOF EXHAUST FAN**
N.T.S.

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PROJECT INFORMATION

Project Number
R23.00331.00

Client Name
GREENWOOD LAKE UNION FREE DISTRICT

Project Name
2023 CAPITAL IMPROVEMENT PROJECT

District Office Address
PO BOX 8, GREENWOOD LAKE, NY 10925

GREENWOOD LAKE UFSD
☐ GREENWOOD LAKE ES SED NO. 44-21-11-02-0-002-016
☐ GREENWOOD LAKE MS SED NO. 44-21-11-02-0-001-027

Registration Expiration Dates
Lauren Tarsia 09/30/26
Anthony Moschetti 05/31/27
Dave Hart 02/28/25
Jennifer Wengender 06/30/27
Larry Wertz 12/31/24
Greg Bahar 07/31/27

PROJECT ISSUE & REVISION SCHEDULE

#	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT
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SHEET INFORMATION

Issued
10/28/2024

Scale
As indicated

Project Status
BID DOCUMENTS

Drawn By
BKM

Checked By
AJS

Drawing Title
MECHANICAL DETAILS, SCHEDULES AND CONTROLS DIAGRAMS

Drawing Number
GEN
H900

11/4/2024 10:55:03 AM <project location>\0 Design & Project Files on BIM 360