MILLBROOK CENTRAL SCHOOL DISTRICT

DISTRICT ADMINISTRATION OFFICES

43 Alden Pl, Millbrook, NY 12545

BOND PHASE 1B

AT

MILLBROOK MIDDLE SCHOOL

43 Alden Pl., Millbrook, NY 12545
SED# 13-22-01-04-0-008-017

MILLBROOK HIGH SCHOOL

70 Church St., Millbrook, NY 12545
SED# 13-22-01-04-0-031-005

MILLBROOK MIDDLE SCHOOL LIST OF DRAWINGS

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A.1.02	AREA B - DEMOLITION and ABATEMENT PLAN
A.1.03	AREA B - DEMOLITION AND ABATEMENT RCP
A.1.04	AREA C - DEMOLITION & ABATEMENT PLAN
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A.1.07	AREA F - DEMOLITION and ABATEMENT PLAN
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A.3.02	ROOF DEMOLITION PLAN – AREAS "C and D"
A.3.03	ROOF DEMOLITION PLAN – AREAS "E and F"
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MS - MECHANICAL	
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M.2.42	AREA E ROOF LEVEL MECHANICAL NEW WORK PLAN
M.2.43	AREA F ROOF LEVEL MECHANICAL NEW WORK PLAN
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M.6.02	MECHANICAL SCHEDULES
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E.5.01	SCHEDULES
E.6.01	PANELBOARD DIRECTORIES
E.6.02	PANELBOARD DIRECTORIES

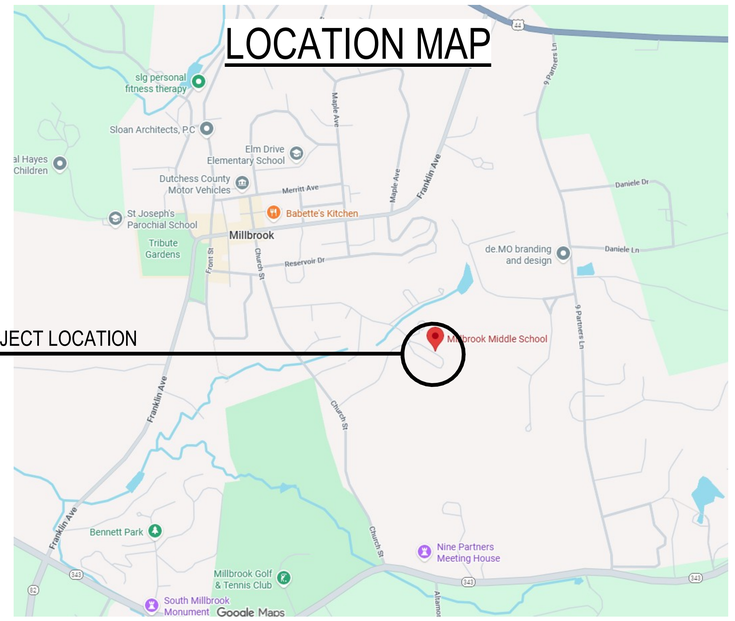
MILLBROOK HIGH SCHOOL LIST OF DRAWINGS

HS - MECHANICAL	
Sheet Number	Sheet Name
M.0.01b	GENERAL NOTES, LEGENDS, ETC.
M.1.01b	AREA B MECHANICAL FIRST FLOOR DEMO PLAN
M.1.02b	AREA C MECHANICAL SECOND FLOOR DEMO PLAN
M.2.01b	AREA B MECHANICAL FIRST FLOOR CHILLER NEW WORK PLAN
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M.2.03b	AREA C MECHANICAL SECOND FLOOR NEW WORK PLAN
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M.3.04b	AREA A - FIRST FLOOR - EXISTING EQUIPMENT AND PIPING
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HS - ELECTRICAL	
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B - E0.01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
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HS - ARCHITECTURE	
Sheet Number	Sheet Name
A.2.01b	H.S. FIRST and SECOND FLOOR DEMOLITION AND PROPOSED PLANS

LOCATION MAP



MAP DATA © GOOGLE

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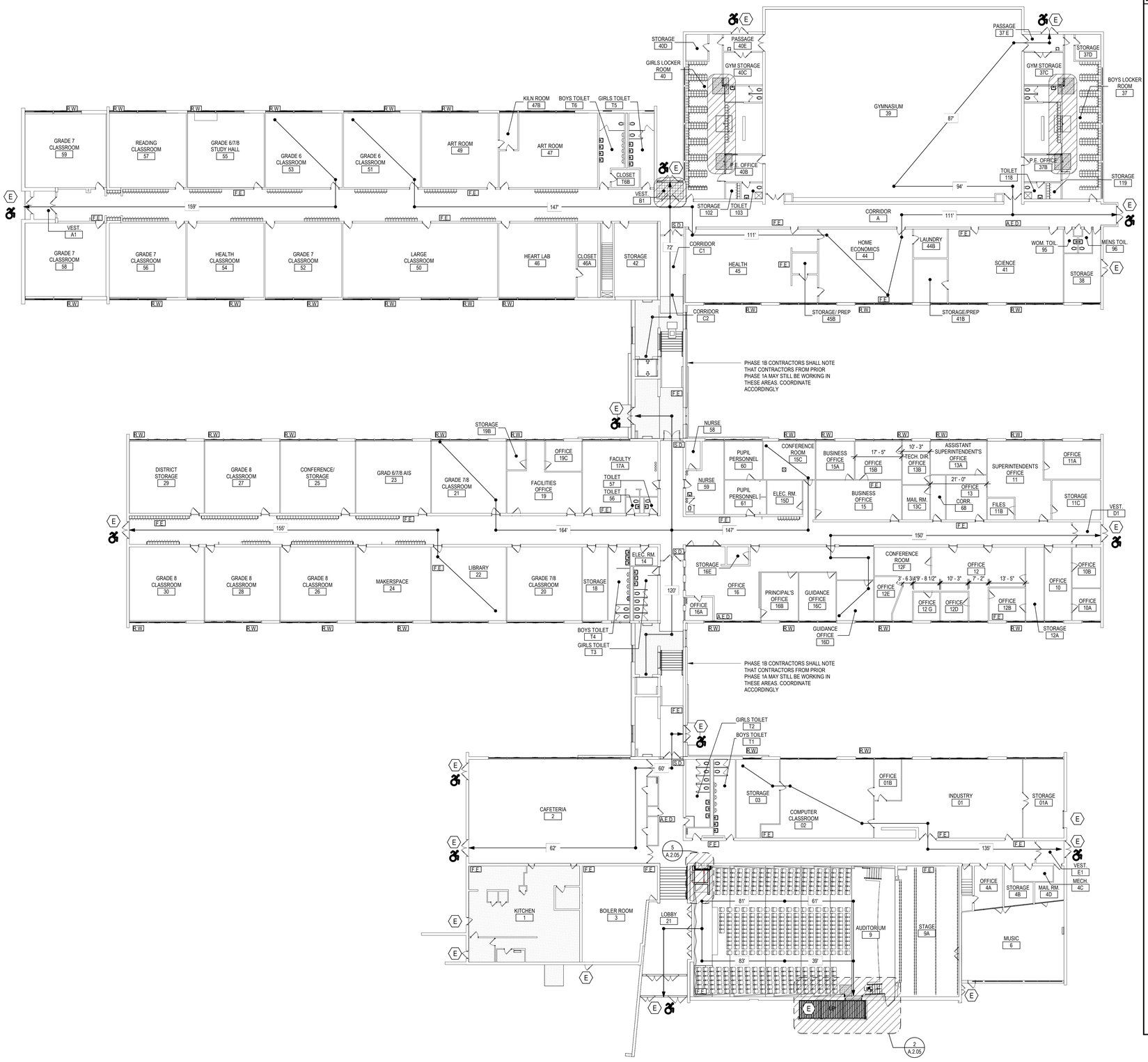
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THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, INFORMATION, AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE CONSTRUCTION STANDARDS OF THE EDUCATION DEPARTMENT.

JOSEPH R. RETTIG LIC. No. 32280

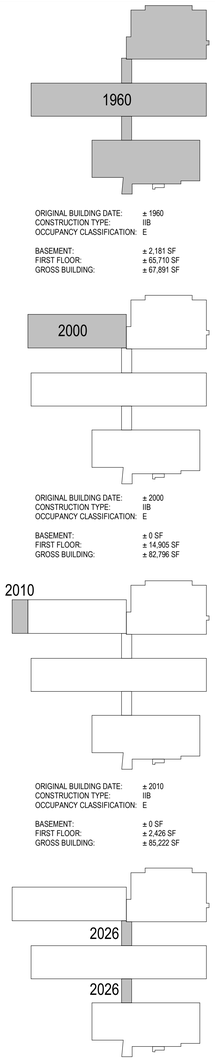
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ISSUED FOR BID: 10/26/2026



1 OVERALL PROPOSED FLOOR PLAN

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

BUILDING ADDITION AREA KEY PLANS



ORIGINAL BUILDING DATE: ± 1960
CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E

BASEMENT: ± 2,181 SF
FIRST FLOOR: ± 65,710 SF
GROSS BUILDING: ± 67,891 SF

ORIGINAL BUILDING DATE: ± 2000
CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E

BASEMENT: ± 0 SF
FIRST FLOOR: ± 14,905 SF
GROSS BUILDING: ± 82,796 SF

ORIGINAL BUILDING DATE: ± 2010
CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E

BASEMENT: ± 0 SF
FIRST FLOOR: ± 2,426 SF
GROSS BUILDING: ± 85,222 SF

ORIGINAL BUILDING ADDITION: ± 2026
CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E

BASEMENT: ± 1,051 SF
FIRST FLOOR: ± 0 SF
GROSS BUILDING: ± 85,954 SF

PHASE 1B CONTRACTORS SHALL NOTE THAT CONTRACTORS FROM PRIOR PHASE 1A MAY STILL BE WORKING IN THESE AREAS. COORDINATE ACCORDINGLY

PROPOSED ADDITION : ± 2026
CONSTRUCTION TYPE: IIB
OCCUPANCY CLASSIFICATION: E
BASEMENT ADDITION: ± 102 SF
FIRST FLOOR ADDITION: ± 62 SF
GROSS BUILDING: ± 86,118 SF

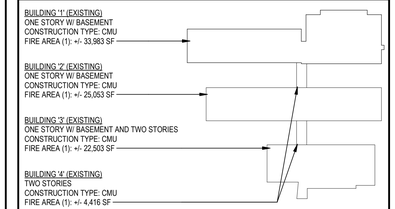
CODE COMPLIANCE SYMBOL LEGEND

SYMBOL	DESCRIPTION
A.E.D.	LOCATION OF AUTOMATED EXTERNAL DEFIBRILLATOR
F.E.	LOCATION OF RECESSED FIRE EXTINGUISHER WITH FIRE RATED CABINET
S.D.	LOCATION OF SMOKE DOOR
R.W.	RESCUE WINDOW LOCATION
360	DOOR / STAIR EXITING CAPACITY
E	INDICATES BUILDING ENTRANCE / EXIT
	INDICATES ACCESSIBLE ENTRANCE / EXIT
	INDICATES AREAS OF RENOVATION
	INDICATES 2 HR FIRE RATED FIRE BARRIER AT WORK AREA

APPLICABLE CODE

THE PROPOSED WORK IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE 2025 COMPILATION OF THE INTERNATIONAL BUILDING CODE, NEW YORK STATE VERSION.

FIRE AREA KEY PLAN



BUILDING '1' (EXISTING)
ONE STORY W/ BASEMENT
CONSTRUCTION TYPE: CMU
FIRE AREA (1): +/- 33,983 SF

BUILDING '2' (EXISTING)
ONE STORY W/ BASEMENT
CONSTRUCTION TYPE: CMU
FIRE AREA (1): +/- 25,053 SF

BUILDING '3' (EXISTING)
ONE STORY W/ BASEMENT AND TWO STORIES
CONSTRUCTION TYPE: CMU
FIRE AREA (1): +/- 22,503 SF

BUILDING '4' (EXISTING)
TWO STORIES
CONSTRUCTION TYPE: CMU
FIRE AREA (1): +/- 4,416 SF

GROSS BUILDING AREA: ± 85,954 SF

ENERGY CONSERVATION CODE NOTES

- CLIMATE ZONE: 5
- DESIGN APPROACH: CHAPTER 5 - COMMERCIAL
- ABOVE GRADE WALL AREA: +/- 35,582 S.F.
- WINDOW GLAZING AREA: +/- 12,317 S.F.
- DOOR AREA: +/- 792 S.F.

- THEREFORE, 36.8% FENESTRATION AREA OF ABOVE GRADE WALL AREA

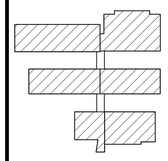
ROOF ASSEMBLIES (R-VALUE): TPO - NEW ADDITIONS/ RE-ROOFING (FLAT ROOFS)

	R-VALUE
OUTSIDE AIR FILM	= 0.17
TPO ROOF MEMBRANE	= NEGL.
1/2" HIGH DENSITY POLYISO COVER BD	= 2.5
TAPERED RIGID INSULATION	= 35
5/8" HD GYP. SUBSTRATE BD. TYPE 'X'	= 0.5
METAL ROOF DECK	= NEGL.
INSIDE AIR FILM	= 0.68
TOTAL R-VALUE	38.85 PROVIDED (R-33 REQUIRED)

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUTCHESS COUNTY

PROJECT

CODE COMPLIANCE PLAN

DWG TITLE

DRAWING BY: EN
CHECKED BY: RLS, JBR

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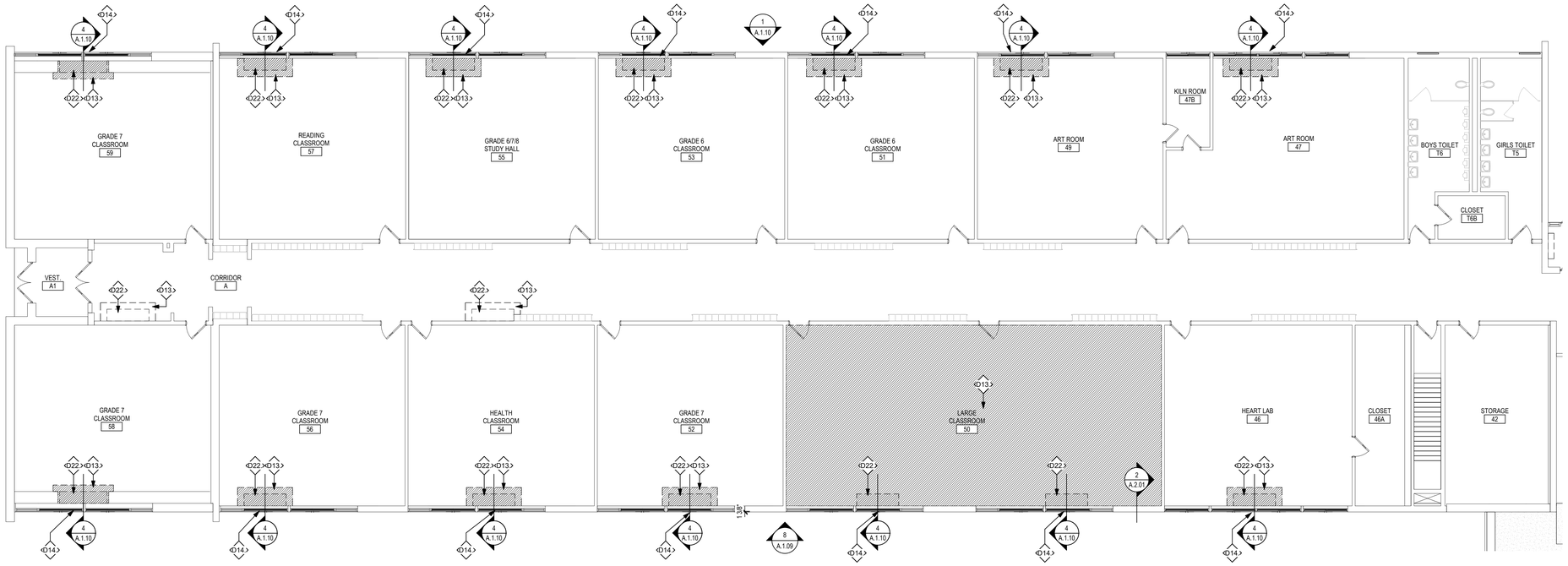
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: CODE COMPLIANCE PLAN

SCALE: AS NOTED
DATE: 6/24/26
BID PICK UP: 10/26/2026
FILE No. 25-273

A.0.01

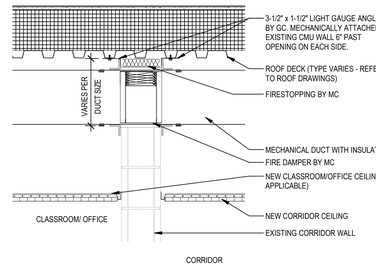


1 AREA "A" - DEMO & ABATEMENT PLAN

SCALE: 1/8" = 1'-0"

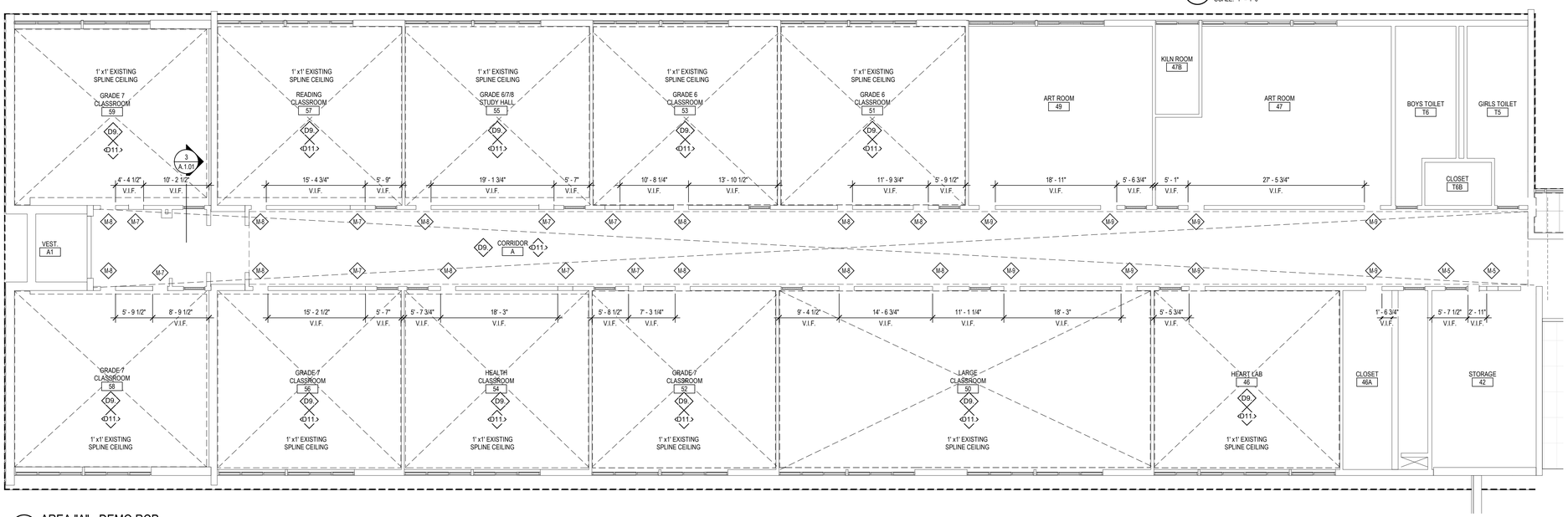
FIRESTOPPING NOTES

1. 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.
2. MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
3. 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.
4. MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
6. 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 EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.



3 FIRE DAMPER DETAIL

SCALE: 1" = 1'-0"



2 AREA "A" - DEMO RCP

SCALE: 1/8" = 1'-0"

DEMOLITION KEYNOTES

NUMBER	NOTE
D1.	GC SHALL COORDINATE WITH THE E.C. TO DISCONNECT AND DISPOSE OF EXISTING LIGHTING FIXTURES. GC TO REMOVE ALL EXISTING CEILINGS IN THE AUDITORIUM, THIS SCOPE INCLUDES ALL PLASTER CEILINGS, METAL RUNNERS AND FURRING, EXISTING ACOUSTICAL CEILING TILES AND GRID. DISPOSE OF ALL MATERIALS IN THEIR ENTIRETY. THE GC/EC SHALL SALVAGE THE SPEAKERS, STAGE LIGHTING, SOUND EQUIPMENT AND LIGHT BAR FOR REINSTALLATION. STORAGE LOCATION AND REQUIREMENTS OF THIS EQUIPMENT TO BE DESIGNATED BY OWNER. GC, SHALL COORDINATE WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D2.	GC TO REMOVE THE INDICATED PORTION OF THE EXISTING FULL HEIGHT GYP. BD. WALLS ON METAL STUDS. REMOVED PORTIONS SHALL BE DISPOSED OF IN THEIR ENTIRETY. REFER TO 1/A.1.08 AND 2/A.1.08. PATCH AND REPAIR ADJACENT FINISHES AS REQUIRED TO MATCH EXISTING WALLS.
D3.	GC TO REMOVE PROSCENIUM BULKHEAD IN ITS ENTIRETY. CLEAN AND PREP AREA TO RECEIVE NEW BULKHEAD.
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D10.	EC TO REMOVE LIGHTING FIXTURES ON/IN CEILING. DISPOSE OF FIXTURES. COORDINATE WITH GC.
D11.	EC TO DOCUMENT THE LOCATION AND REMOVE LIGHTING FIXTURES ON/IN CEILING. STORE FIXTURES FOR LATER REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO BE DESIGNATED BY OWNER.
D12.	EC TO COORDINATE WITH GC TO REMOVE CEILING MOUNTED EQUIPMENT, INCLUDING PROJECTORS, SPEAKERS, ALARMS, ETC. AND TURN OVER TO OWNER.
D13.	GC TO REMOVE EXPOSED FLOORING TILES ONCE THE EXISTING UNIT VENTILATORS ARE DEMOED TO THE NEAREST FULL TILE.
D14.	MC TO COORDINATE LOCATIONS FOR GC TO REMOVE MECHANICAL LOUVERS OR GRILLES IN WALL. CLEAN AND PREP OPENING TO RECEIVE INFILL.
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D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M-DRAWINGS FOR INFORMATION.
D19.	EC TO REMOVE AND SALVAGE EXISTING HANGING LIGHT FIXTURES FOR FUTURE REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
D20.	GC TO REMOVE AND SALVAGE CEILING CROWN TRIM FOR REINSTALLATION. GC TO COORDINATE WITH OWNER REGARDING STORAGE LOCATION AND REQUIREMENTS.
D21.	GC TO REMOVE CARPET IN THIS AREA TO EXPOSE CONCRETE FLOOR FOR GRINDING. GC TO PROTECT ADJACENT CARPET DURING DEMOLITION AND CONSRUCTION.
D22.	EC TO DISCONNECT EXISTING UNIT VENTILATORS. GC TO REMOVE AND DISPOSE OF THE UNIT VENTILATORS. COORDINATE WITH MC. GC TO PATCH FLOOR AT PIPE OPENING, SEE A 1.09/9 FOR DETAIL.
D23.	GC TO REMOVE FLOORING AND WALL BASE IN ITS ENTIRETY.
D24.	MC TO CORE DRILL THROUGH EXISTING FLOOR DECK FOR PROPOSED PLUMBING INSTALLATION. REFER TO A.2.03 AND A.2.05. GC TO PATCH AS NEEDED.
D25.	GC TO REMOVE WALLBASE IN WORK AREA.
D26.	EC TO DISCONNECT AND REMOVE ALL ELECTRICAL FIXTURES IN WORK AREA, INCLUDING, BUT NOT LIMITED TO, LIGHT SWITCHES, ELECTRICAL OUTLETS, FIRE SAFETY DEVICES, ETC. THIS INCLUDES OVERHEAD WIRING IN THE PROXIMITY OF PROPOSED COLUMN LOCATION.
D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
D28.	GC TO REMOVE LOCKERS AND LOCKER BASES IN WORK AREA. STORE TO REINSTALL.

MECHANICAL DUCT WALL OPENING - MASONRY

PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL CORRIDOR MASONRY WALLS CARRY A MINIMUM FIRE RATING OF 1 HR. OPENINGS ARE BASED ON MECHANICAL DUCT SIZING. REFER TO 3/A.1.01 FOR REFERENCE. THE GC SHALL MAKE THE OPENING FROM THE ROOF DECK DOWN TO THE SIZE INDICATED. THIS DIMENSION INCLUDES A SPACE THAT ALLOWS A CLOSURE ANGLE TO BE PROPERLY SEATED. THE MC IS RESPONSIBLE TO VERIFY DUCT SIZE OPENING FOR THE INSTALLATION OF THE DUCT WORK/FIRE DAMPER AND ALL FIRE SAFING AS REQUIRED UNDER THIS CONTRACT.

MASONRY OPENINGS - DUCT SIZE - CONFIRM W/ M.C.

M-1 10" x6"	M-4 18" x8"	M-7 28" x10"	M-10 42" x12"
M-2 14" x8"	M-5 20" x8"	M-8 28" x12"	M-11 20" x10"
M-3 16" x8"	M-6 20" x12"	M-9 30" x12"	M-12 23" x29"

MECHANICAL DUCT WALL OPENING - GWB

G-1 14" x8" G-2 18" x8" G-3 20" x12"

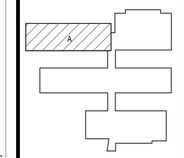
LEGEND

DEMO - VCT/VAT; DEMO - Slab Sawcut; DEMO - 1 x 1 Tile; DEMO - Carpet Tile

REV.	DATE	ITEM

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MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUTCHESS COUNTY

PROJECT

AREA A - DEMOLITION and ABATEMENT PLAN

DWG TITLE

DRAWING BY: EN, RLS
CHECKED BY: RLS, JBR

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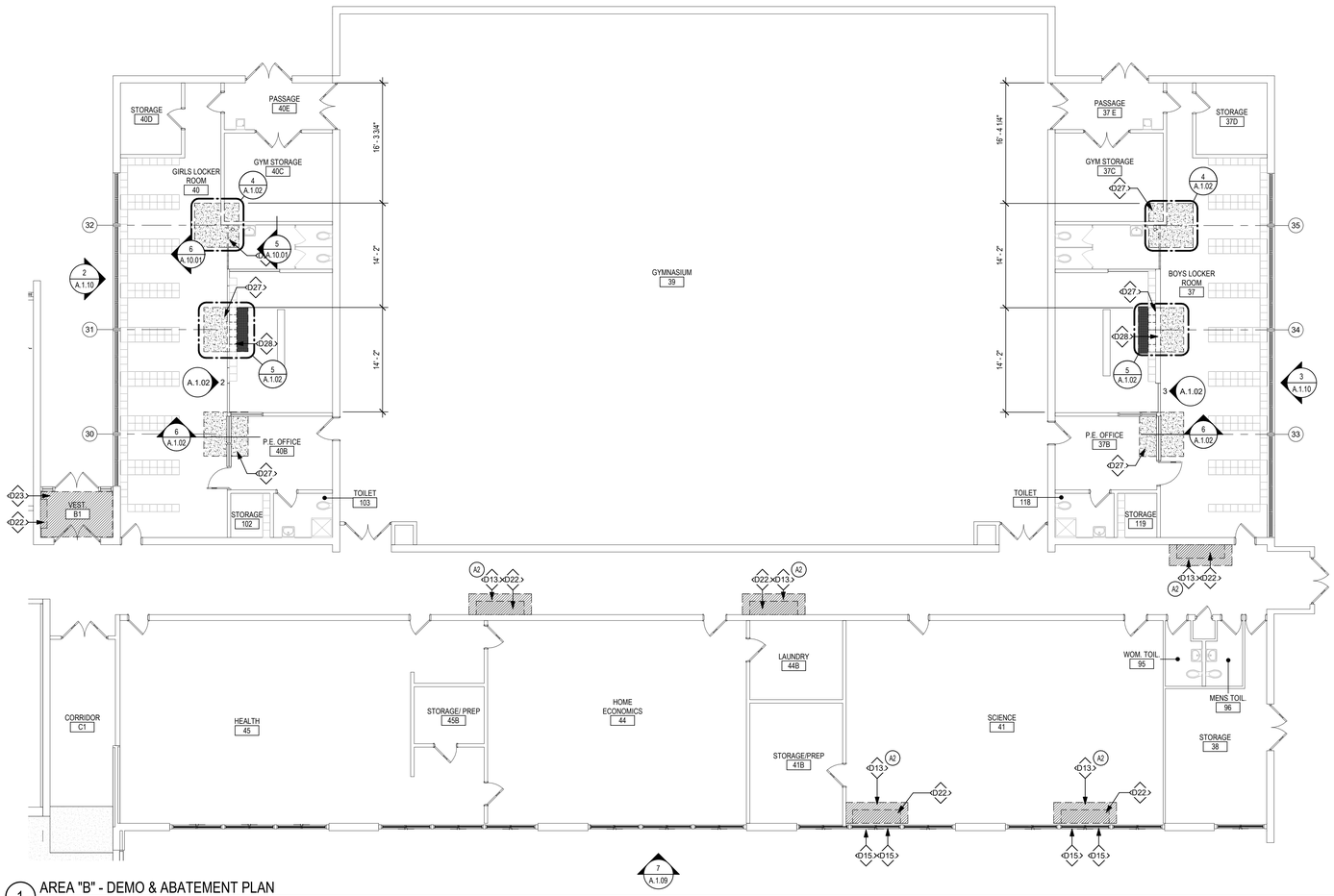
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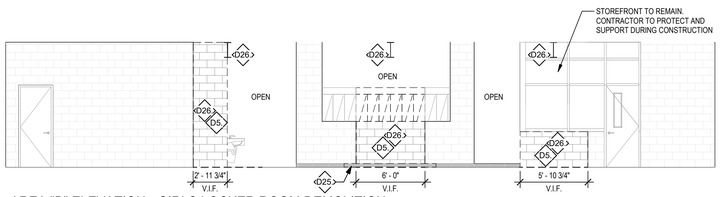
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA A - DEMOLITION and ABATEMENT PLAN
SCALE:	AS NOTED
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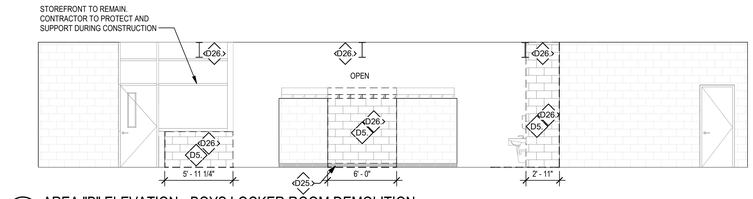
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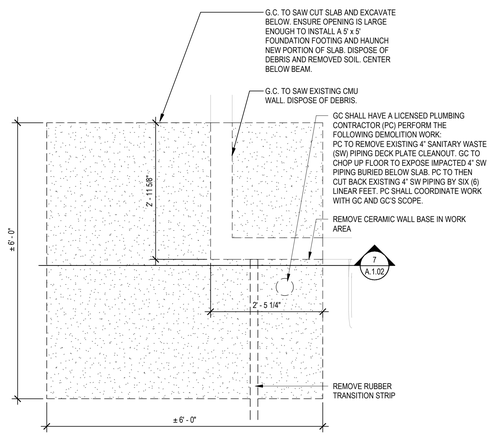
1 AREA "B" - DEMO & ABATEMENT PLAN
SCALE: 1/8" = 1'-0"



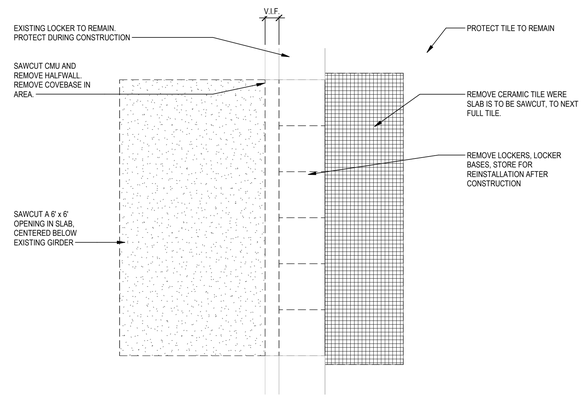
2 AREA "B" ELEVATION - GIRLS LOCKER ROOM DEMOLITION
SCALE: 3/16" = 1'-0"



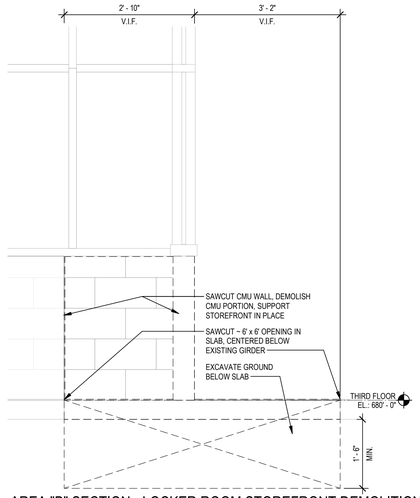
3 AREA "B" ELEVATION - BOYS LOCKER ROOM DEMOLITION
SCALE: 3/16" = 1'-0"



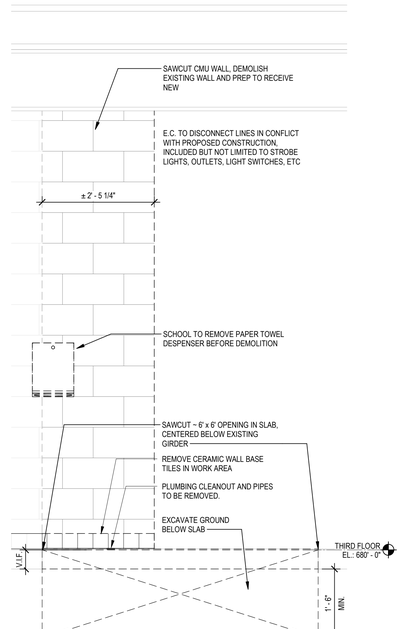
4 AREA "B" PLAN DETAIL - CORNER DEMOLITION
SCALE: 3/4" = 1'-0"



5 AREA "B" PLAN DETAIL - SHOWERS DEMOLITION
SCALE: 3/4" = 1'-0"



6 AREA "B" SECTION - LOCKER ROOM STOREFRONT DEMOLITION
SCALE: 3/4" = 1'-0"



7 AREA "B" SECTION - LOCKER ROOM WALL DEMOLITION
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HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NY INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES INDICATE THE PRESENCE OF ASBESTOS CONTAINING MATERIALS AND CORRESPOND TO THE CONSTRUCTION DRAWINGS:

HAZARDOUS MATERIALS SYMBOLS

A1 **INDICATES ASSUMED ASBESTOS CONTAINING PIPING AND ASSOCIATED FITTINGS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS. ASSUME AT ALL UVs.**

A2 **INDICATES ASBESTOS CONTAINING FLOORING / TILE. REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

A3 **INDICATED ASBESTOS CONTAINING EXTERIOR WALL CONSTRUCTION.REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

NOTE: SUSPECTED ASBESTOS IN STUB PIPE INSULATION AT UV DEMOLITION.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING, AND ANALYSIS OF SUSPECT HAZARDOUS MATERIALS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING, LEAD CONTAINING, AND PCB CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES, WHICH MAY BE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

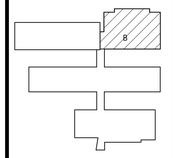
LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA B - DEMOLITION and ABATEMENT PLAN

DRAWING BY: EN
CHECKED BY: RLS, JBR

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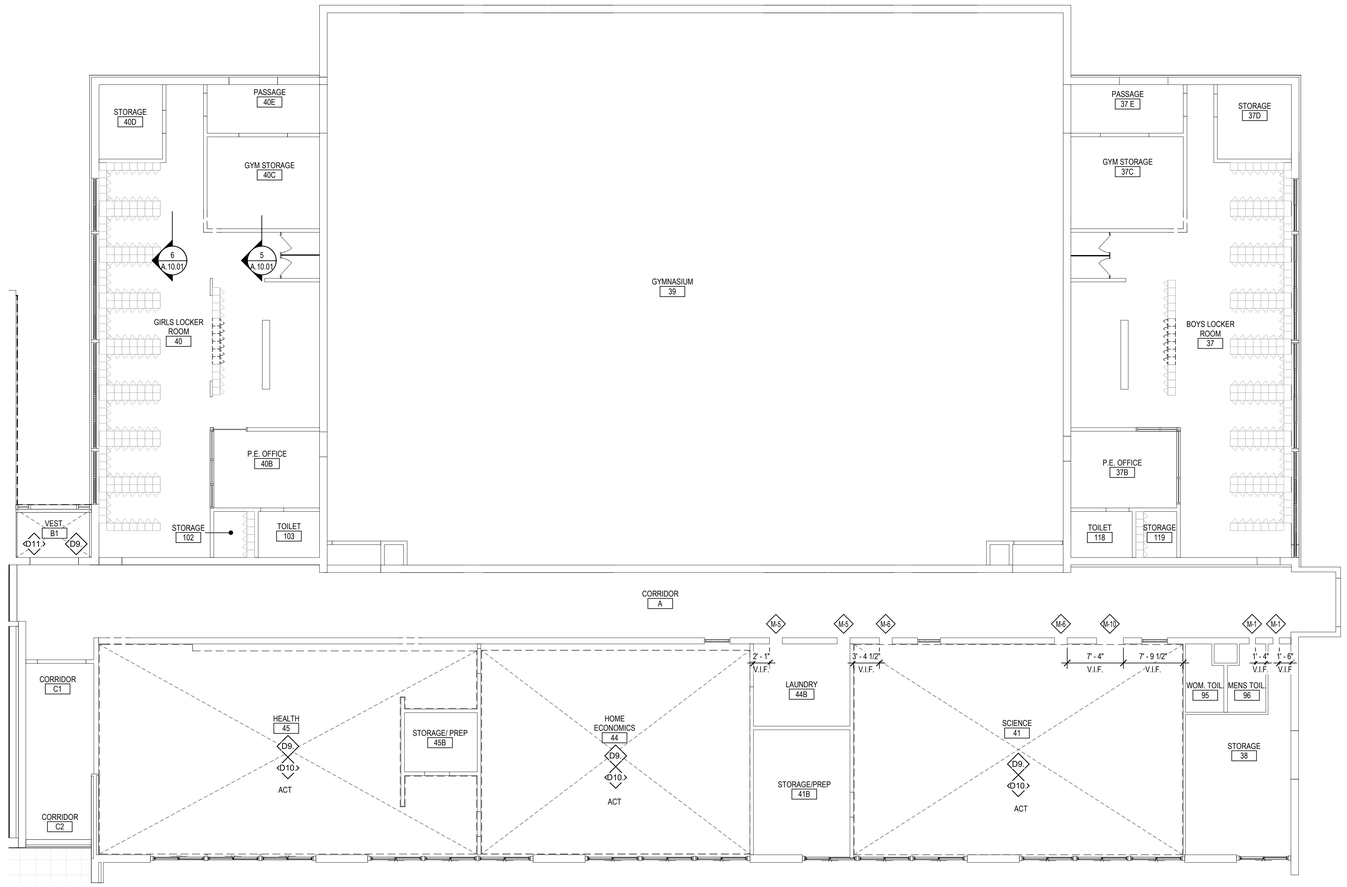
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA B - DEMOLITION and ABATEMENT PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.02



1 AREA "B" - DEMO RCP

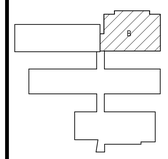
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D9.	GC TO REMOVE CEILING IN ITS ENTIRETY. GC SHALL COORDINATE THIS REMOVAL WITH E.C. TO DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. GC SHALL COORDINATE THIS REMOVAL WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D10.	EC TO REMOVE LIGHTING FIXTURES ON/IN CEILING. DISPOSE OF FIXTURES. COORDINATE WITH GC.
D11.	EC TO DOCUMENT THE LOCATION AND REMOVE LIGHTING FIXTURES ON/IN CEILING. STORE FIXTURES FOR LATER REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO BE DESIGNATED BY OWNER.
D12.	EC TO COORDINATE WITH GC TO REMOVE CEILING MOUNTED EQUIPMENT, INCLUDING PROJECTORS, SPEAKERS, ALARMS, ETC. AND TURN OVER TO OWNER.
D13.	GC TO REMOVE EXPOSED FLOORING TILES ONCE THE EXISTING UNIT VENTILATORS ARE DEMOED TO THE NEAREST FULL TILE.
D14.	MC TO COORDINATE LOCATIONS FOR GC TO REMOVE MECHANICAL LOUVERS OR GRILLES IN WALL. CLEAN AND PREP OPENING TO RECEIVE INFILL.
D15.	GC TO REMOVE FIXED WINDOW INSULATED PANELS WITH LOUVERS.
D16.	GC TO COORDINATE WITH MC THE LOCATIONS TO SAW CUT PORTION OF EXISTING MASONRY WALL. MC TO FIRESTOP OPENINGS. GC TO PATCH AND REPAIR OPENING TO RECEIVE NEW MECHANICAL DUCTWORK.
D17.	OWNER TO REMOVE EXISTING STAGE CURTAINS AND ASSOCIATED MATERIALS.
D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M-DRAWINGS FOR INFORMATION.
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D20.	GC TO REMOVE AND SALVAGE CEILING CROWN TRIM FOR REINSTALLATION. GC TO COORDINATE WITH OWNER REGARDING STORAGE LOCATION AND REQUIREMENTS.
D21.	GC TO REMOVE CARPET IN THIS AREA TO EXPOSE CONCRETE FLOOR FOR GRINDING. GC TO PROTECT ADJACENT CARPET DURING DEMOLITION AND CONSRUCTION.
D22.	EC TO DISCONNECT EXISTING UNIT VENTILATORS. GC TO REMOVE AND DISPOSE OF THE UNIT VENTILATORS. COORDINATE WITH MC. GC TO PATCH FLOOR AT PIPE OPENING. SEE A.1.09/9 FOR DETAIL.
D23.	GC TO REMOVE FLOORING AND WALL BASE IN ITS ENTIRETY.
D24.	MC TO CORE DRILL THROUGH EXISTING FLOOR DECK FOR PROPOSED PLUMBING INSTALLATION. REFER TO A.2.03 AND A.2.05. GC TO PATCH AS NEEDED.
D25.	GC TO REMOVE WALLBASE IN WORK AREA.
D26.	EC TO DISCONNECT AND REMOVE ALL ELECTRICAL FIXTURES IN WORK AREA, INCLUDING, BUT NOT LIMITED TO, LIGHT SWITCHES, ELECTRICAL OUTLETS, FIRE SAFETY DEVICES, ETC. THIS INCLUDES OVERHEAD WIRING IN THE PROXIMITY OF PROPOSED COLUMN LOCATION.
D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
D28.	GC TO REMOVE LOCKERS AND LOCKER BASES IN WORK AREA. STORE TO REINSTALL.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA B - DEMOLITION AND ABATEMENT RCP

DWG TITLE

DRAWING BY: EN, RLS

CHECKED BY: RLS, JBR

NOTICE

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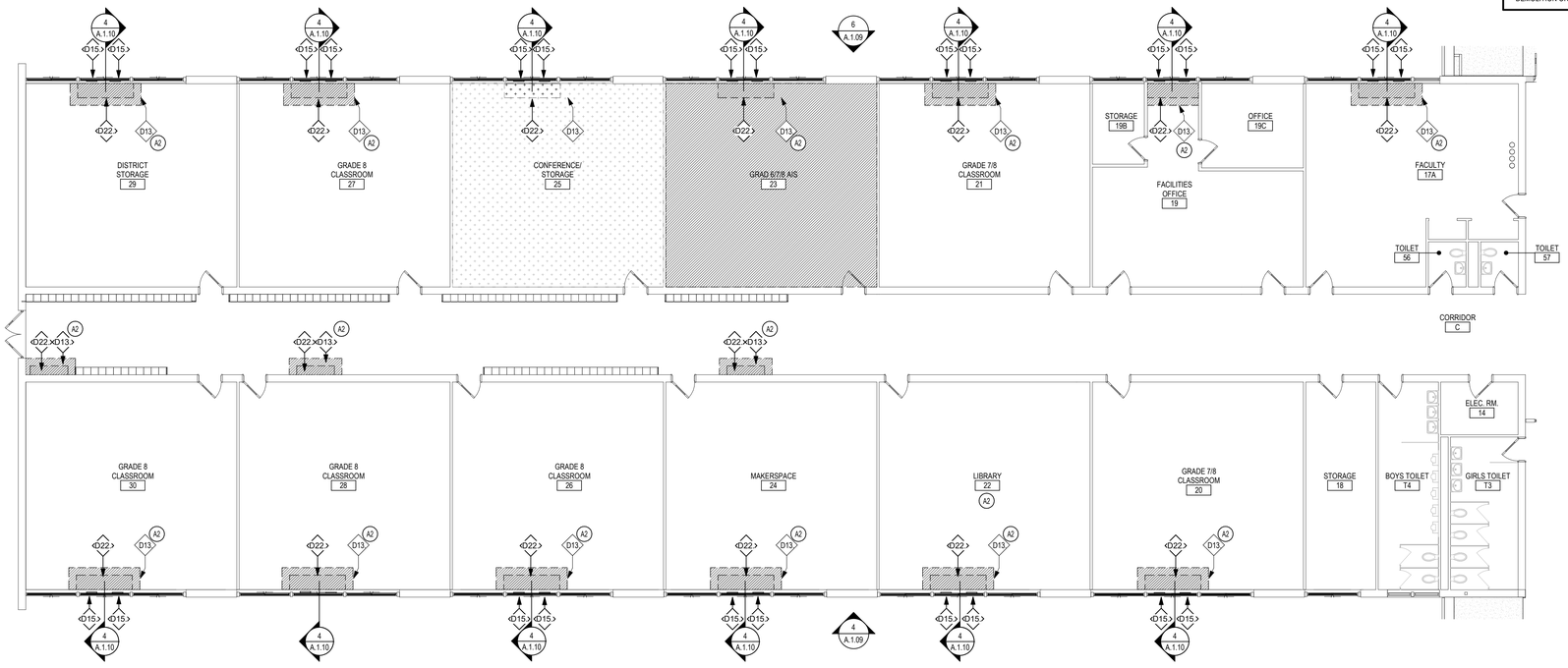
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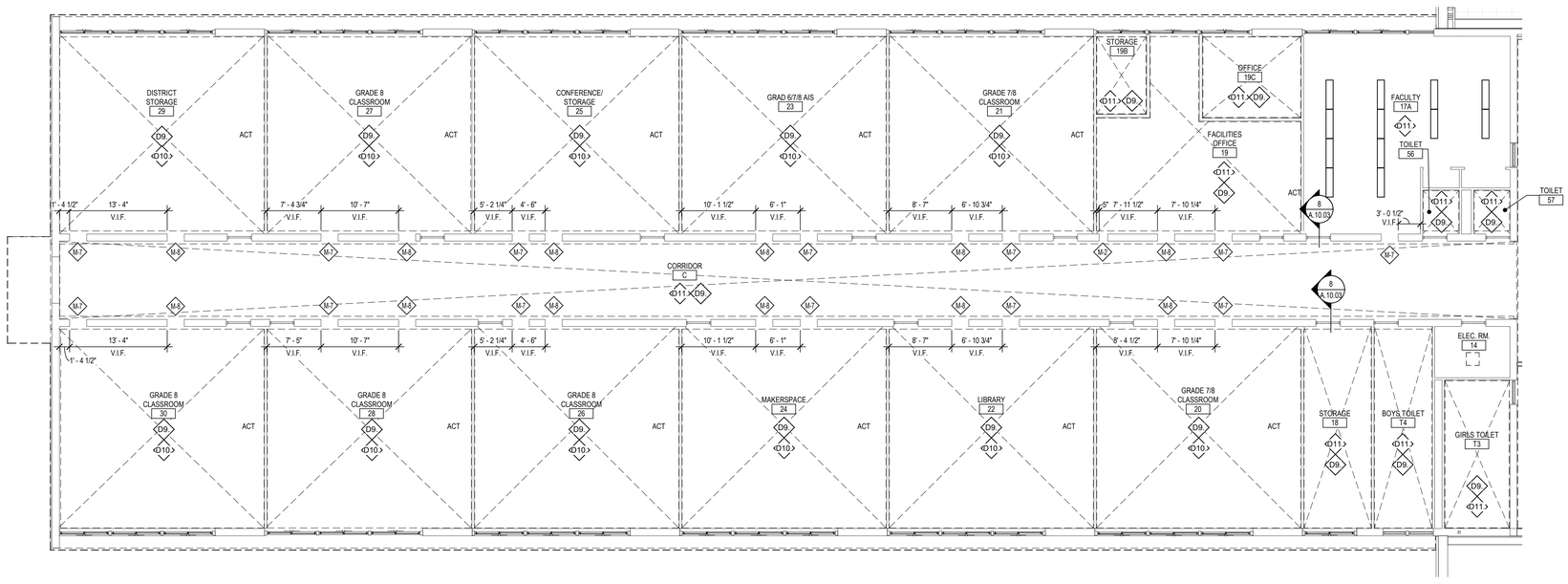
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PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA B - DEMOLITION AND ABATEMENT RCP
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.03



1 AREA "C" - DEMO & ABATEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"



2 AREA "C" - DEMO RCP

SCALE: 1/8" = 1'-0"

HAZARDOUS MATERIALS SYMBOLS

A1 **INDICATES ASSUMED ASBESTOS CONTAINING PIPING AND ASSOCIATED FITTINGS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS. ASSUME AT ALL UVs.**

A2 **INDICATES ASBESTOS CONTAINING FLOORING / TILE. REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

A3 **INDICATED ASBESTOS CONTAINING EXTERIOR WALL CONSTRUCTION.REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

NOTE: SUSPECTED ASBESTOS IN STUB PIPE INSULATION AT UV DEMOLITION.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING, AND ANALYSIS OF SUSPECT HAZARDOUS MATERIALS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING, LEAD CONTAINING, AND PCB CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES, WHICH MAY BE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

DEMOLITION KEYNOTES

NUMBER	NOTE
D1.	GC SHALL COORDINATE WITH THE E.C. TO DISCONNECT AND DISPOSE OF EXISTING LIGHTING FIXTURES. GC TO REMOVE ALL EXISTING CEILINGS IN THE AUDITORIUM. THIS SCOPE INCLUDES ALL PLASTER CEILINGS, METAL RUNNERS AND FURRING, EXISTING ACOUSTICAL CEILING TILES AND GRID. DISPOSE OF ALL MATERIALS IN THEIR ENTIRETY. THE GC/EC SHALL SALVAGE THE SPEAKERS, STAGE LIGHTING, SOUND EQUIPMENT AND LIGHT BAR FOR REINSTALLATION. STORAGE LOCATION AND REQUIREMENTS OF THIS EQUIPMENT TO BE DESIGNATED BY OWNER. GC. SHALL COORDINATE WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D2.	GC TO REMOVE THE INDICATED PORTION OF THE EXISTING FULL HEIGHT GYP. BD. WALLS ON METAL STUDS. REMOVED PORTIONS SHALL BE DISPOSED OF IN THEIR ENTIRETY. REFER TO 1/A.1.08 AND 2/A.1.08. PATCH AND REPAIR ADJACENT FINISHES AS REQUIRED TO MATCH EXISTING WALLS.
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MECHANICAL DUCT WALL OPENING - MASONRY

PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL CORRIDOR MASONRY WALLS CARRY A MINIMUM FIRE RATING OF 1 HR. OPENINGS ARE BASED ON MECHANICAL DUCT SIZING. REFER TO 3/A.1.01 FOR REFERENCE. THE GC SHALL MAKE THE OPENING FROM THE ROOF DECK DOWN TO THE SIZE INDICATED. THIS DIMENSION INCLUDES A SPACE THAT ALLOWS A CLOSURE ANGLE TO BE PROPERLY SEATED. THE MC IS RESPONSIBLE TO VERIFY DUCT SIZE OPENING FOR THE INSTALLATION OF THE DUCT WORK/FIRE DAMPER AND ALL FIRE SAFING AS REQUIRED UNDER THIS CONTRACT.

MASONRY OPENINGS - DUCT SIZE - CONFIRM W/ M.C.

M-1	10" x6"	M-4	18" x8"	M-7	28" x10"	M-10	42" x12"
M-2	14" x8"	M-5	20" x8"	M-8	28" x12"	M-11	20" x10"
M-3	16" x8"	M-6	20" x12"	M-9	30" x12"	M-12	23" x29"

MECHANICAL DUCT WALL OPENING - GWB

G-1	14" x8"	G-2	18" x8"	G-3	20" x12"

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NY INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES INDICATE THE PRESENCE OF ASBESTOS CONTAINING MATERIALS AND CORRESPOND TO THE CONSTRUCTION DRAWINGS:

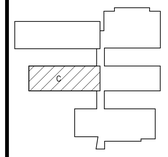
LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA C - DEMOLITION & ABATEMENT PLAN

DRAWING BY: EN, RLS, JB

CHECKED BY: RLS, JBR

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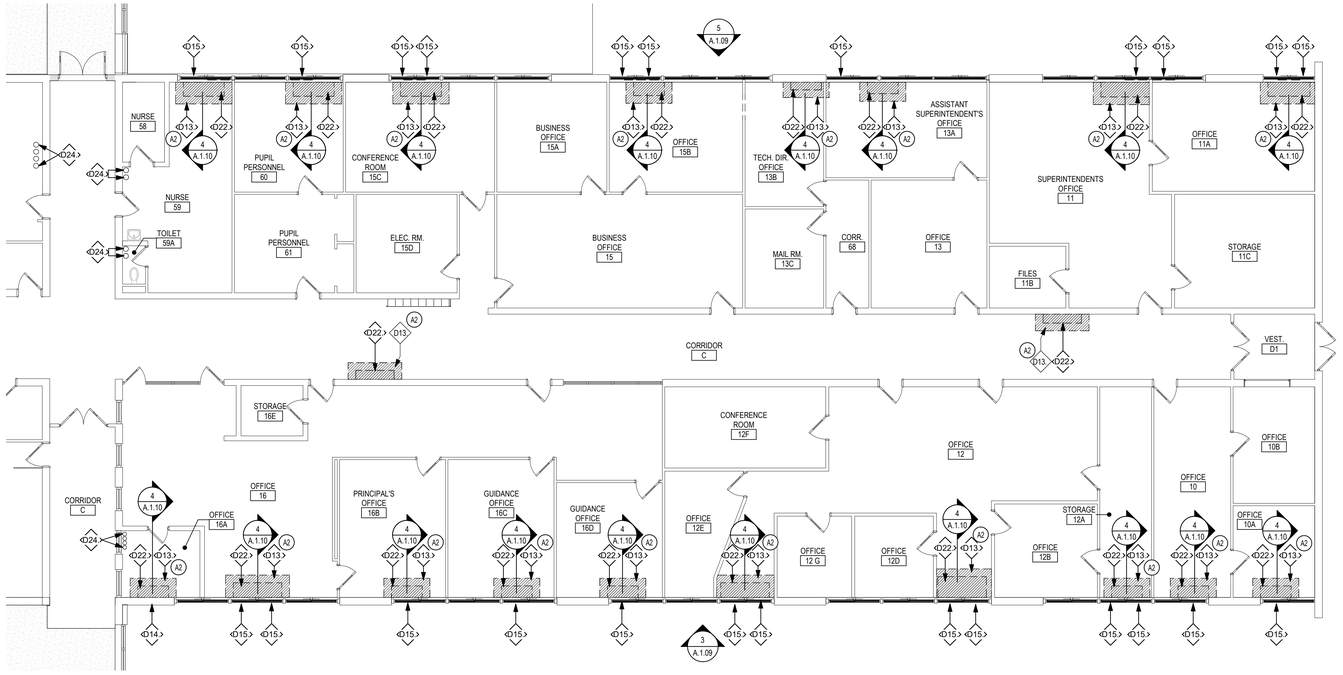
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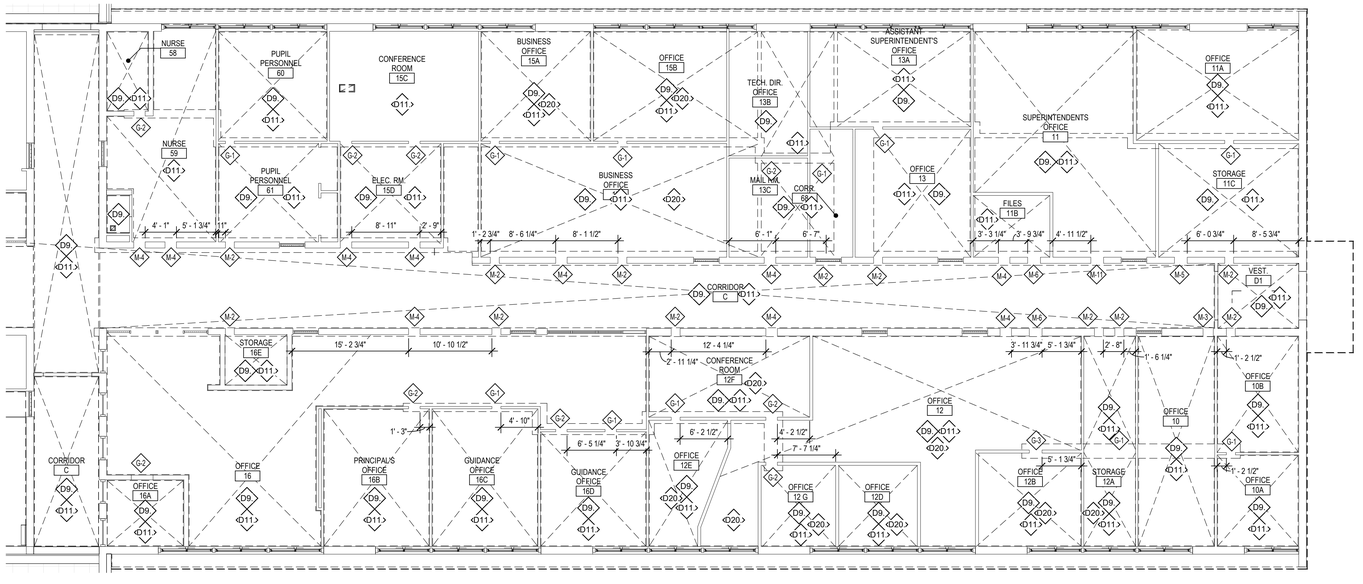
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA C - DEMOLITION & ABATEMENT PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.04



1 AREA "D" - DEMO & ABATEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"



2 AREA "D" - DEMO RCP

SCALE: 1/8" = 1'-0"

LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

DEMOLITION KEYNOTES

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PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL CORRIDOR MASONRY WALLS CARRY A MINIMUM FIRE RATING OF 1 HR. OPENINGS ARE BASED ON MECHANICAL DUCT SIZING. REFER TO 3/A.1.01 FOR REFERENCE. THE GC SHALL MAKE THE OPENING FROM THE ROOF DECK DOWN TO THE SIZE INDICATED. THIS DIMENSION INCLUDES A SPACE THAT ALLOWS A CLOSURE ANGLE TO BE PROPERLY SEATED. THE MC IS RESPONSIBLE TO VERIFY DUCT SIZE OPENING FOR THE INSTALLATION OF THE DUCT WORK/FIRE DAMPER AND ALL FIRE SAFING AS REQUIRED UNDER THIS CONTRACT.

MASONRY OPENINGS - DUCT SIZE - CONFIRM W/ M.C.

M-1	10" x6"	M-4	18" x8"	M-7	28" x10"	M-10	42" x12"
M-2	14" x8"	M-5	20" x8"	M-8	28" x12"	M-11	20" x10"
M-3	16" x8"	M-6	20" x12"	M-9	30" x12"	M-12	23" x29"

MECHANICAL DUCT WALL OPENING - GWB

G-1 14" x8" | G-2 18" x8" | G-3 20" x12"

HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NY INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES INDICATE THE PRESENCE OF ASBESTOS CONTAINING MATERIALS AND CORRESPOND TO THE CONSTRUCTION DRAWINGS:

HAZARDOUS MATERIALS SYMBOLS

A1 **INDICATES ASSUMED ASBESTOS CONTAINING PIPING AND ASSOCIATED FITTINGS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS. ASSUME AT ALL UVs.**

A2 **INDICATES ASBESTOS CONTAINING FLOORING / TILE. REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

A3 **INDICATED ASBESTOS CONTAINING EXTERIOR WALL CONSTRUCTION.REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

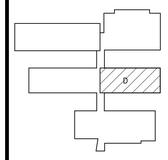
NOTE: SUSPECTED ASBESTOS IN STUB PIPE INSULATION AT UV DEMOLITION.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING, AND ANALYSIS OF SUSPECT HAZARDOUS MATERIALS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING, LEAD CONTAINING, AND PCB CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES, WHICH MAY BE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

REV.	DATE	ITEM

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA D - DEMOLITION and ABATEMENT PLAN

DRAWING BY: EN, RLS
CHECKED BY: RLS, JBR

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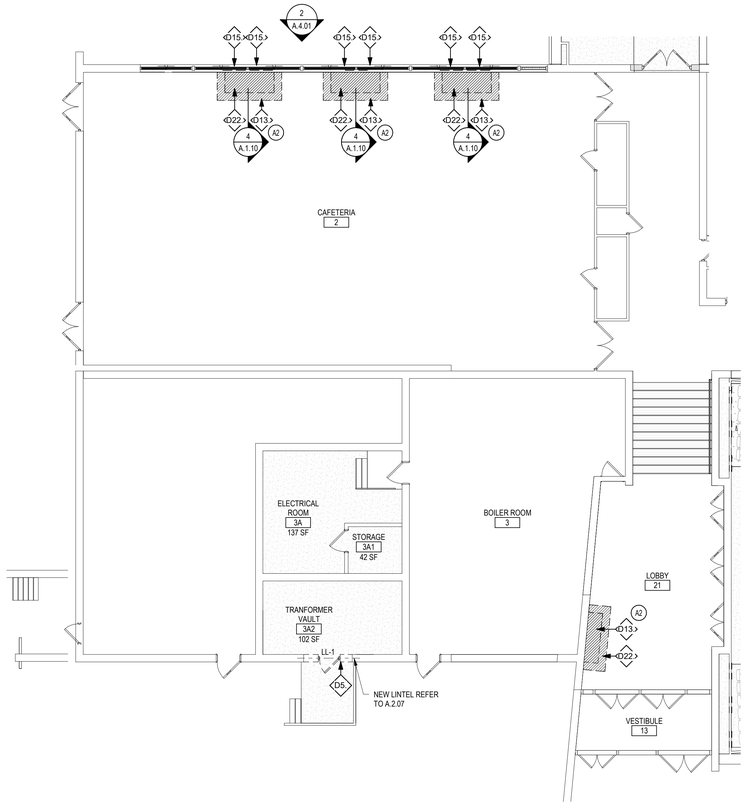
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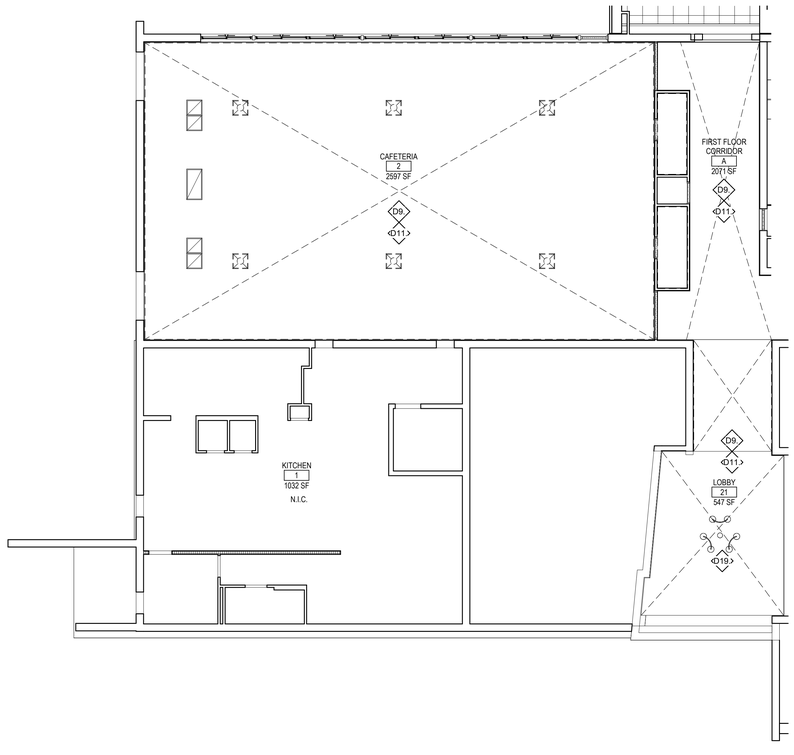
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA D - DEMOLITION and ABATEMENT PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.05



1 AREA "E" - DEMO & ABATEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"



2 AREA "E" - DEMO RCP

SCALE: 1/8" = 1'-0"

LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

DEMOLITION KEYNOTES

NUMBER	NOTE
D1.	GC SHALL COORDINATE WITH THE E.C. TO DISCONNECT AND DISPOSE OF EXISTING LIGHTING FIXTURES. GC TO REMOVE ALL EXISTING CEILINGS IN THE AUDITORIUM. THIS SCOPE INCLUDES ALL PLASTER CEILINGS, METAL RUNNERS AND FURRING, EXISTING ACOUSTICAL CEILING TILES AND GRID. DISPOSE OF ALL MATERIALS IN THEIR ENTIRETY. THE GC/EC SHALL SALVAGE THE SPEAKERS, STAGE LIGHTING, SOUND EQUIPMENT AND LIGHT BAR FOR REINSTALLATION. STORAGE LOCATION AND REQUIREMENTS OF THIS EQUIPMENT TO BE DESIGNATED BY OWNER. GC SHALL COORDINATE WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D2.	GC TO REMOVE THE INDICATED PORTION OF THE EXISTING FULL HEIGHT GYP. BD. WALLS ON METAL STUDS. REMOVED PORTIONS SHALL BE DISPOSED OF IN THEIR ENTIRETY. REFER TO 1/A.1.08 AND 2/A.1.08. PATCH AND REPAIR ADJACENT FINISHES AS REQUIRED TO MATCH EXISTING WALLS.
D3.	GC TO REMOVE PROSCENIUM BULKHEAD IN ITS ENTIRETY. CLEAN AND PREP AREA TO RECEIVE NEW BULKHEAD.
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D5.	GC TO SAW CUT, REMOVE, AND DISPOSE OF THE PORTION OF EXISTING MASONRY WALL AS INDICATED ON FLOOR PLANS, SECTION VIEWS, AND INTERIOR ELEVATIONS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
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D8.	GC TO REMOVE TOP PORTION OF GYP. BD. AND METAL STUD WALL AS INDICATED ON 3/A.1.08. INSTALL STRUCTURAL METAL STUDS TO INSURE INTEGRITY TO ADJACENT WALLS.
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D10.	EC TO REMOVE LIGHTING FIXTURES ON/IN CEILING. DISPOSE OF FIXTURES. COORDINATE WITH GC.
D11.	EC TO DOCUMENT THE LOCATION AND REMOVE LIGHTING FIXTURES ON/IN CEILING. STORE FIXTURES FOR LATER REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO BE DESIGNATED BY OWNER.
D12.	EC TO COORDINATE WITH GC TO REMOVE CEILING MOUNTED EQUIPMENT, INCLUDING PROJECTORS, SPEAKERS, ALARMS, ETC. AND TURN OVER TO OWNER.
D13.	GC TO REMOVE EXPOSED FLOORING TILES ONCE THE EXISTING UNIT VENTILATORS ARE DEMOED TO THE NEAREST FULL TILE.
D14.	MC TO COORDINATE LOCATIONS FOR GC TO REMOVE MECHANICAL LOUVERS OR GRILLES IN WALL. CLEAN AND PREP OPENING TO RECEIVE INFILL.
D15.	GC TO REMOVE FIXED WINDOW INSULATED PANELS WITH LOUVERS.
D16.	GC TO COORDINATE WITH MC THE LOCATIONS TO SAW CUT PORTION OF EXISTING MASONRY WALL. MC TO FIRESTOP OPENINGS. GC TO PATCH AND REPAIR OPENING TO RECEIVE NEW MECHANICAL DUCTWORK.
D17.	OWNER TO REMOVE EXISTING STAGE CURTAINS AND ASSOCIATED MATERIALS.
D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M-DRAWINGS FOR INFORMATION.
D19.	EC TO REMOVE AND SALVAGE EXISTING HANGING LIGHT FIXTURES FOR FUTURE REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
D20.	GC TO REMOVE AND SALVAGE CEILING CROWN TRIM FOR REINSTALLATION. GC TO COORDINATE WITH OWNER REGARDING STORAGE LOCATION AND REQUIREMENTS.
D21.	GC TO REMOVE CARPET IN THIS AREA TO EXPOSE CONCRETE FLOOR FOR GRINDING. GC TO PROTECT ADJACENT CARPET DURING DEMOLITION AND CONSRUCTION.
D22.	EC TO DISCONNECT EXISTING UNIT VENTILATORS. GC TO REMOVE AND DISPOSE OF THE UNIT VENTILATORS. COORDINATE WITH MC. GC TO PATCH FLOOR AT PIPE OPENING, SEE A.1.09/9 FOR DETAIL.
D23.	GC TO REMOVE FLOORING AND WALL BASE IN ITS ENTIRETY.
D24.	MC TO CORE DRILL THROUGH EXISTING FLOOR DECK FOR PROPOSED PLUMBING INSTALLATION, REFER TO A.2.03 AND A.2.05. GC TO PATCH AS NEEDED.
D25.	GC TO REMOVE WALLBASE IN WORK AREA.
D26.	EC TO DISCONNECT AND REMOVE ALL ELECTRICAL FIXTURES IN WORK AREA, INCLUDING, BUT NOT LIMITED TO, LIGHT SWITCHES, ELECTRICAL OUTLETS, FIRE SAFETY DEVICES, ETC. THIS INCLUDES OVERHEAD WIRING IN THE PROXIMITY OF PROPOSED COLUMN LOCATION.
D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
D28.	GC TO REMOVE LOCKERS AND LOCKER BASES IN WORK AREA. STORE TO REINSTALL

HAZARDOUS MATERIALS NOTES

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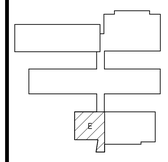
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

AREA E - DEMOLITION and ABATEMENT PLAN

DRAWING BY:	EN, RLS
CHECKED BY:	RLS, JBR

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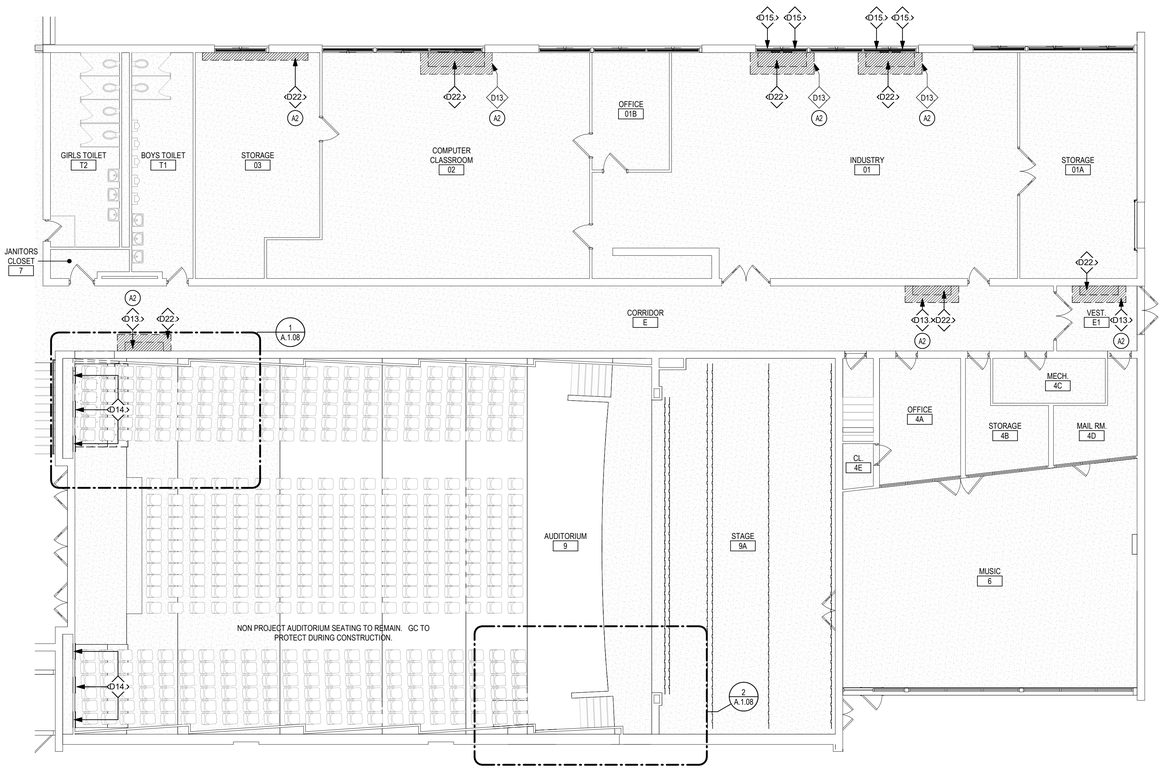
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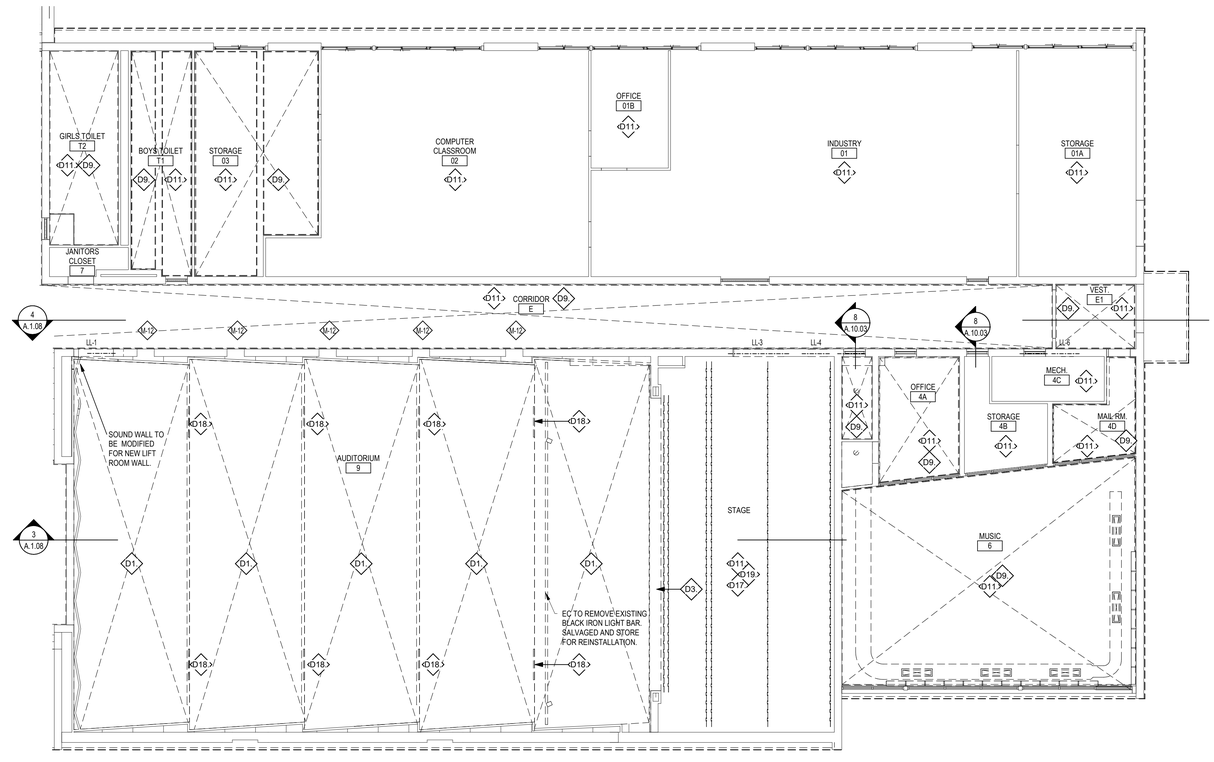
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A.1.06



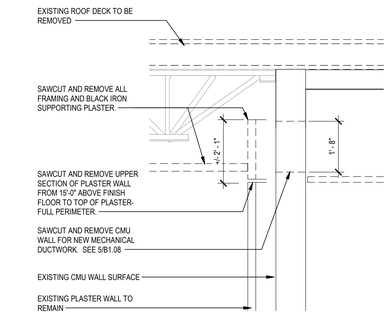
1 AREA "F" - DEMO & ABATEMENT FLOOR PLAN

SCALE: 1/8" = 1'-0"



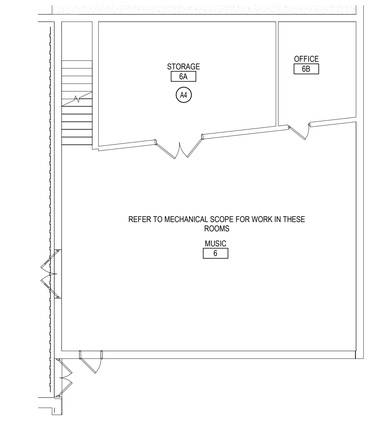
2 AREA "F" - DEMO RCP

SCALE: 1/8" = 1'-0"



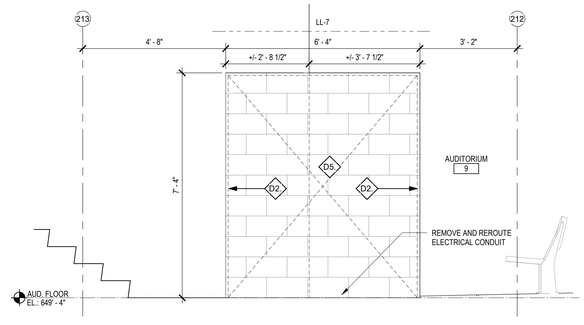
3 AREA "F" - AUDITORIUM DEMO SECTION

SCALE: 1/2" = 1'-0"



4 AREA "F" - MUSIC ROOM DEMO PLAN

SCALE: 1/8" = 1'-0"



5 AREA "F" - AUDITORIUM MASONRY OPENING DEMO ELEVATION

SCALE: 1/2" = 1'-0"

LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

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DEMOLITION KEYNOTES

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D17.	OWNER TO REMOVE EXISTING STAGE CURTAINS AND ASSOCIATED MATERIALS.
D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M-DRAWINGS FOR INFORMATION.
D19.	EC TO REMOVE AND SALVAGE EXISTING HANGING LIGHT FIXTURES FOR FUTURE REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
D20.	GC TO REMOVE AND SALVAGE CEILING CROWN TRIM FOR REINSTALLATION. GC TO COORDINATE WITH OWNER REGARDING STORAGE LOCATION AND REQUIREMENTS.
D21.	GC TO REMOVE CARPET IN THIS AREA TO EXPOSE CONCRETE FLOOR FOR GRINDING. GC TO PROTECT ADJACENT CARPET DURING DEMOLITION AND CONSRUCTION.
D22.	EC TO DISCONNECT EXISTING UNIT VENTILATORS. GC TO REMOVE AND DISPOSE OF THE UNIT VENTILATORS. COORDINATE WITH MC. GC TO PATCH FLOOR AT PIPE OPENING, SEE A.1.09/9 FOR DETAIL.
D23.	GC TO REMOVE FLOORING AND WALL BASE IN ITS ENTIRETY.
D24.	MC TO CORE DRILL THROUGH EXISTING FLOOR DECK FOR PROPOSED PLUMBING INSTALLATION. REFER TO A.2.03 AND A.2.05. GC TO PATCH AS NEEDED.
D25.	GC TO REMOVE WALLBASE IN WORK AREA.
D26.	EC TO DISCONNECT AND REMOVE ALL ELECTRICAL FIXTURES IN WORK AREA, INCLUDING, BUT NOT LIMITED TO, LIGHT SWITCHES, ELECTRICAL OUTLETS, FIRE SAFETY DEVICES, ETC. THIS INCLUDES OVERHEAD WIRING IN THE PROXIMITY OF PROPOSED COLUMN LOCATION.
D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
D28.	GC TO REMOVE LOCKERS AND LOCKER BASES IN WORK AREA. STORE TO REINSTALL.

MECHANICAL DUCT WALL OPENING - MASONRY

PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL CORRIDOR MASONRY WALLS CARRY A MINIMUM FIRE RATING OF 1 HR. OPENINGS ARE BASED ON MECHANICAL DUCT SIZING. REFER TO 3/A.1.01 FOR REFERENCE. THE GC SHALL MAKE THE OPENING FROM THE ROOF DECK DOWN TO THE SIZE INDICATED. THIS DIMENSION INCLUDES A SPACE THAT ALLOWS A CLOSURE ANGLE TO BE PROPERLY SEATED. THE MC IS RESPONSIBLE TO VERIFY DUCT SIZE OPENING FOR THE INSTALLATION OF THE DUCT WORK/FIRE DAMPER AND ALL FIRE SAFING AS REQUIRED UNDER THIS CONTRACT.

MASONRY OPENINGS - DUCT SIZE - CONFIRM W/ M.C.

M-1	10" x6"	M-4	18" x8"	M-7	28" x10"	M-10	42" x12"
M-2	14" x8"	M-5	20" x8"	M-8	28" x12"	M-11	20" x10"
M-3	16" x8"	M-6	20" x12"	M-9	30" x12"	M-12	23" x29"

MECHANICAL DUCT WALL OPENING - GWB

G-1	14" x8"	G-2	18" x8"	G-3	20" x12"

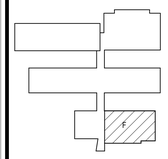
HAZARDOUS MATERIALS NOTES

1. OWNER HAS EMPLOYED AN ENVIRONMENTAL CONSULTANT TO PERFORM DESIGN-PHASE INSPECTION AND TESTING FOR ASBESTOS, LEAD AND / OR PCBs. SUCH REPORTS ARE CONTAINED IN THE PROJECT MANUAL AND MAY CONTAIN ADDITIONAL REQUIREMENTS BEYOND THOSE SHOWN IN THE CONSTRUCTION DRAWINGS AND DIVISION 1 RELATED SPECIFICATIONS.
2. CONSTRUCTION DRAWINGS INDICATE EXTENT OF HAZARDOUS MATERIALS REMOVALS, WHICH MAY BE ASSUMED OR CONFIRMED POSITIVE. CONTRACTOR SHALL VERIFY QUANTITIES OF SUCH MATERIALS AND ACCOUNT FOR THEM IN THE BID.
3. CONTRACTOR SHALL EMPLOY A PROPERLY CREDENTIALED HAZARDOUS MATERIALS SUBCONTRACTOR AS REQUIRED FOR THE SCOPE OF WORK AT HAND.
4. ASBESTOS ABATEMENT SHALL BE PERFORMED IN ACCORDANCE WITH NY INDUSTRIAL CODE RULE 56.
5. REMOVAL OF LEAD CONTAINING CONSTRUCTION MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL HUD REGULATIONS. THE WORK OF THIS PROJECT IS NOT INTENDED TO BE A LEAD ABATEMENT.
6. WHERE WORK INVOLVES LEAD CONTAINING CONSTRUCTION MATERIALS, WIPE TESTS WILL BE PERFORMED UPON FINAL CLEANING. FAILURE WILL REQUIRE RE-CLEANING BY THE CONTRACTOR.
7. PCB REMOVALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL EPA REGULATIONS AS ENFORCED BY NYS DEC. IF SUCH MATERIALS ALSO CONTAIN ASBESTOS, THEN SUCH MATERIALS SHALL BE HANDLED AND DISPOSED OF PER BOTH NYS DEC AND NYS ICR 56.
8. CONTRACTOR SHALL COORDINATE HAZARDOUS MATERIALS REMOVAL ACTIVITIES WITH THE OWNER'S ENVIRONMENTAL CONSULTANT FOR APPROPRIATE PROJECT MONITORING.
9. IF ANY SUSPECT MATERIALS ARE DISCOVERED DURING DEMOLITION THAT ARE OUTSIDE OF THE IDENTIFIED SCOPE OF WORK, THE CONTRACTOR SHALL CEASE REMOVAL AND NOTIFY THE ARCHITECT.
10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES INDICATE THE PRESENCE OF ASBESTOS CONTAINING MATERIALS AND CORRESPOND TO THE CONSTRUCTION DRAWINGS:

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA F - DEMOLITION and ABATEMENT PLAN

DRAWING BY: EN, RLS

CHECKED BY: RLS, JBR

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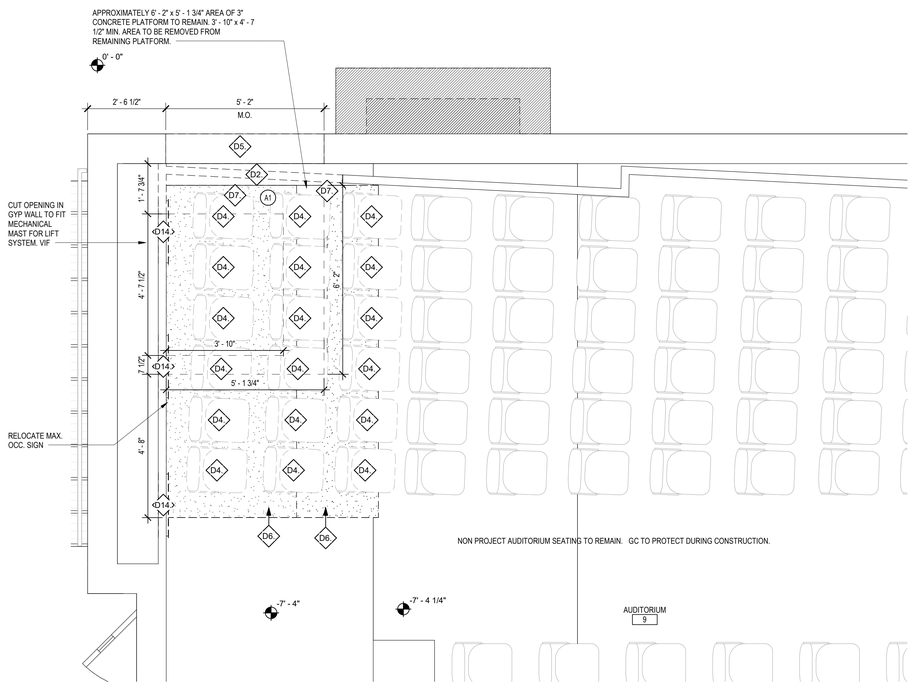
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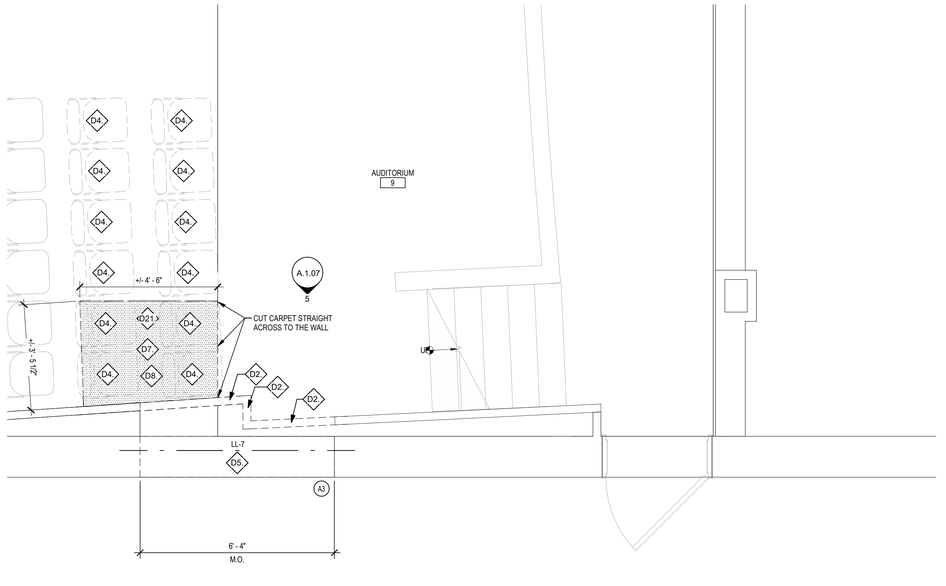
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PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA F - DEMOLITION and ABATEMENT PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.07



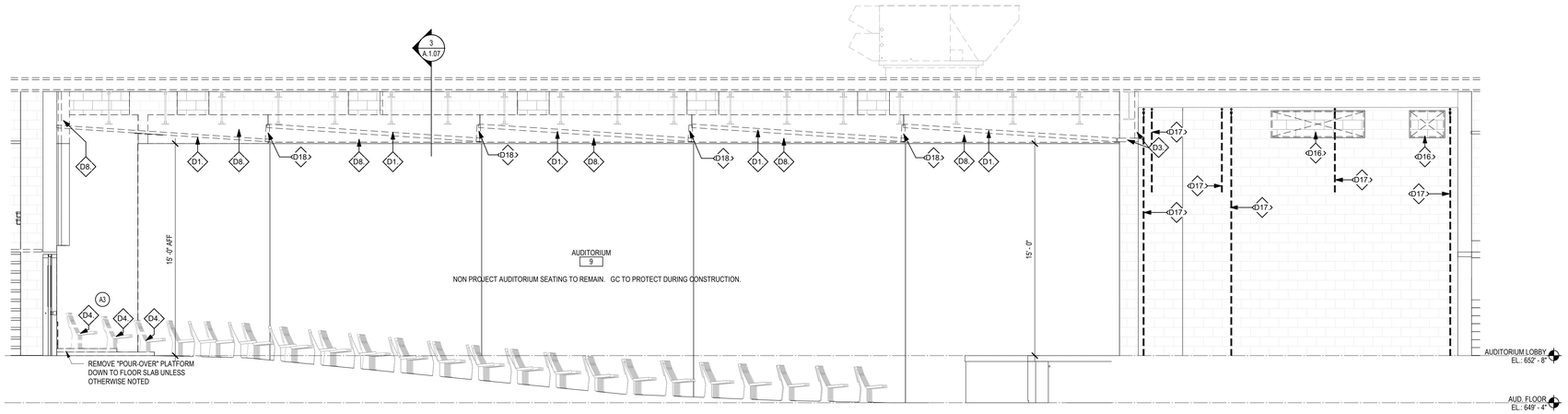
1 AREA "F" PLAN DETAIL - AUDITORIUM MASONRY DEMO

SCALE: 1/2" = 1'-0"



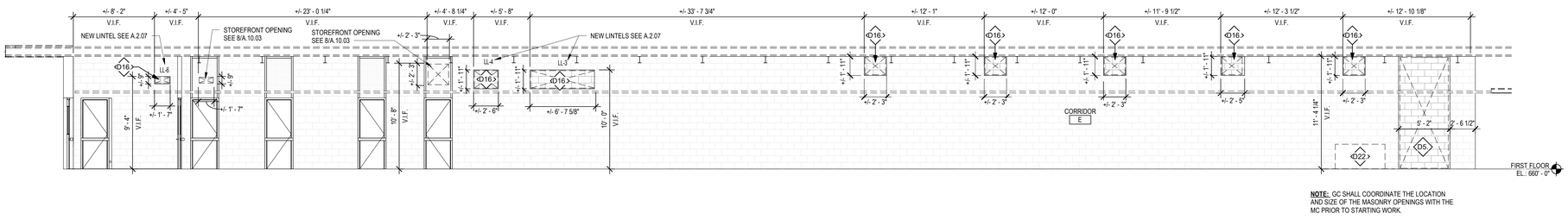
2 AREA "F" PLAN DETAIL - EXTERIOR MASONRY & FOUNDATION DEMO

SCALE: 1/2" = 1'-0"



3 AREA "F" SECTION - AUDITORIUM & STAGE DEMO

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



NOTE: GC SHALL COORDINATE THE LOCATION AND SIZE OF THE MASONRY OPENINGS WITH THE MC PRIOR TO STARTING WORK.

4 AREA "F" ELEVATION - CORRIDOR "E" MASONRY DEMOLITION

SCALE: 3/16" = 1'-0"

DEMOLITION KEYNOTES

NUMBER	NOTE
D1.	GC SHALL COORDINATE WITH THE E.C. TO DISCONNECT AND DISPOSE OF EXISTING LIGHTING FIXTURES. GC TO REMOVE ALL EXISTING CEILINGS IN THE AUDITORIUM. THIS SCOPE INCLUDES ALL PLASTER CEILINGS, METAL RUNNERS AND FURRING, EXISTING ACOUSTICAL CEILING TILES AND GRID. DISPOSE OF ALL MATERIALS IN THEIR ENTIRETY. THE GC/EC SHALL SALVAGE THE SPEAKERS, STAGE LIGHTING, SOUND EQUIPMENT AND LIGHT BAR FOR REINSTALLATION. STORAGE LOCATION AND REQUIREMENTS OF THIS EQUIPMENT TO BE DESIGNATED BY OWNER. GC. SHALL COORDINATE WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D2.	GC TO REMOVE THE INDICATED PORTION OF THE EXISTING FULL HEIGHT GYP. BD. WALLS ON METAL STUDS. REMOVED PORTIONS SHALL BE DISPOSED OF IN THEIR ENTIRETY. REFER TO 1/A 1.08 AND 2/A 1.08. PATCH AND REPAIR ADJACENT FINISHES AS REQUIRED TO MATCH EXISTING WALLS.
D3.	GC TO REMOVE PROSCENIUM BULKHEAD IN ITS ENTIRETY. CLEAN AND PREP AREA TO RECEIVE NEW BULKHEAD.
D4.	GC TO REMOVE IDENTIFIED SEATING IN ITS ENTIRETY. REMOVE STUBS AND PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH AND PAINTING TO MATCH EXISTING FLOORS.
D5.	GC TO SAW CUT, REMOVE, AND DISPOSE OF THE PORTION OF EXISTING MASONRY WALL AS INDICATED ON FLOOR PLANS, SECTION VIEWS, AND INTERIOR ELEVATIONS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
D6.	GC TO REMOVE FLOOR RISERS DOWN TO THE AUDITORIUM FLOOR LEVEL. PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH AND PAINTING TO MATCH EXISTING FLOORS.
D7.	GC TO GRIND FLOOR AND PREP TO CREATE A LEVEL FLOOR SURFACE AT EXIT LOCATION.
D8.	GC TO REMOVE TOP PORTION OF GYP. BD. AND METAL STUD WALL AS INDICATED ON 3/A.1.08. INSTALL STRUCTURAL METAL STUDS TO INSURE INTEGRITY TO ADJACENT WALLS.
D9.	GC TO REMOVE CEILING IN ITS ENTIRETY. GC SHALL COORDINATE THIS REMOVAL WITH E.C. TO DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. GC SHALL COORDINATE THIS REMOVAL WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D10.	EC TO REMOVE LIGHTING FIXTURES ON/IN CEILING. DISPOSE OF FIXTURES. COORDINATE WITH GC.
D11.	EC TO DOCUMENT THE LOCATION AND REMOVE LIGHTING FIXTURES ON/IN CEILING. STORE FIXTURES FOR LATER REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO BE DESIGNATED BY OWNER.
D12.	EC TO COORDINATE WITH GC TO REMOVE CEILING MOUNTED EQUIPMENT, INCLUDING PROJECTORS, SPEAKERS, ALARMS, ETC. AND TURN OVER TO OWNER.
D13.	GC TO REMOVE EXPOSED FLOORING TILES ONCE THE EXISTING UNIT VENTILATORS ARE DEMOED TO THE NEAREST FULL TILE.
D14.	MC TO COORDINATE LOCATIONS FOR GC TO REMOVE MECHANICAL LOUVERS OR GRILLES IN WALL. CLEAN AND PREP OPENING TO RECEIVE INFILL.
D15.	GC TO REMOVE FIXED WINDOW INSULATED PANELS WITH LOUVERS.
D16.	GC TO COORDINATE WITH MC THE LOCATIONS TO SAW CUT PORTION OF EXISTING MASONRY WALL. MC TO FIRESTOP OPENINGS. GC TO PATCH AND REPAIR OPENING TO RECEIVE NEW MECHANICAL DUCTWORK.
D17.	OWNER TO REMOVE EXISTING STAGE CURTAINS AND ASSOCIATED MATERIALS.
D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M.DRAWINGS FOR INFORMATION.
D19.	EC TO REMOVE AND SALVAGE EXISTING HANGING LIGHT FIXTURES FOR FUTURE REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
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10. THE FOLLOWING HAZARDOUS MATERIAL REMOVAL KEY NOTES INDICATE THE PRESENCE OF ASBESTOS CONTAINING MATERIALS AND CORRESPOND TO THE CONSTRUCTION DRAWINGS:

HAZARDOUS MATERIALS SYMBOLS

- (A1) **INDICATES ASSUMED ASBESTOS CONTAINING PIPING AND ASSOCIATED FITTINGS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS. ASSUME AT ALL UVs.**
- (A2) **INDICATES ASBESTOS CONTAINING FLOORING / TILE. REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**
- (A3) **INDICATED ASBESTOS CONTAINING EXTERIOR WALL CONSTRUCTION.REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

NOTE: SUSPECTED ASBESTOS IN STUB PIPE INSULATION AT UV DEMOLITION.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING, AND ANALYSIS OF SUSPECT HAZARDOUS MATERIALS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING, LEAD CONTAINING, AND PCB CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES, WHICH MAY BE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

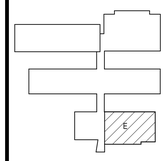
LEGEND

DEMO - VCT/VAT | DEMO - Slab Sawcut | DEMO - 1 x 1 Tile | DEMO - Carpet Tile

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

ENLARGED AUDITORIUM DEMOLITION PLAN AND DETAILS

DWG TITLE

DRAWING BY: EN, RLS, JB

CHECKED BY: RLS, JBR

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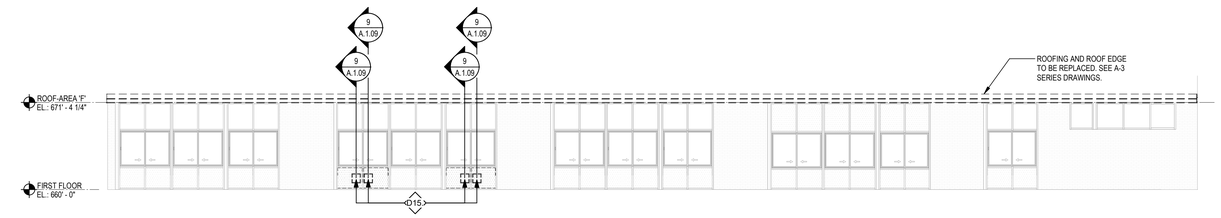
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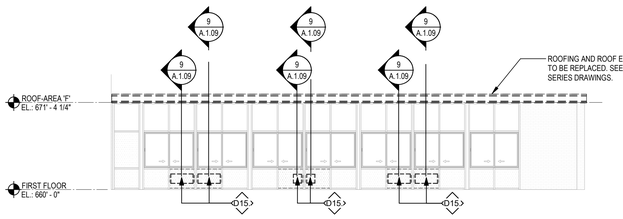
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ENLARGED AUDITORIUM DEMOLITION PLAN AND DETAILS
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

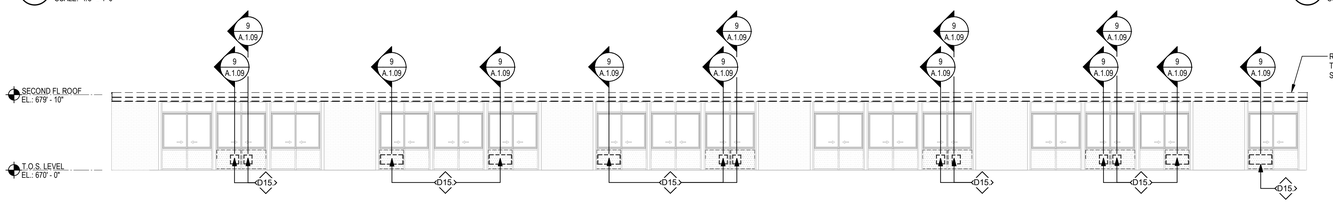
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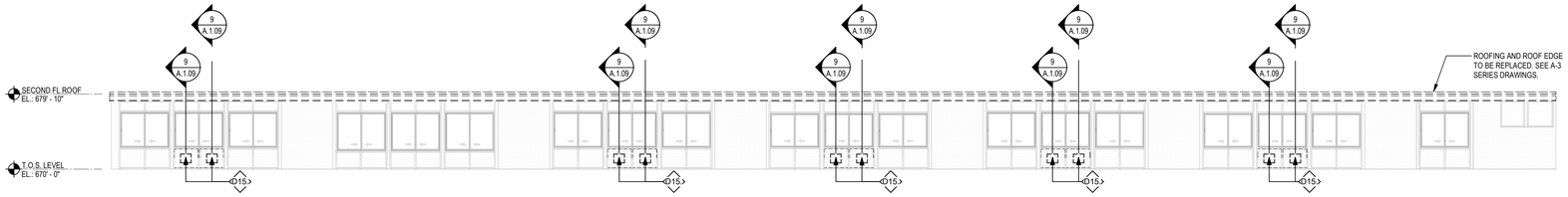
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SCALE: 1/8" = 1'-0"



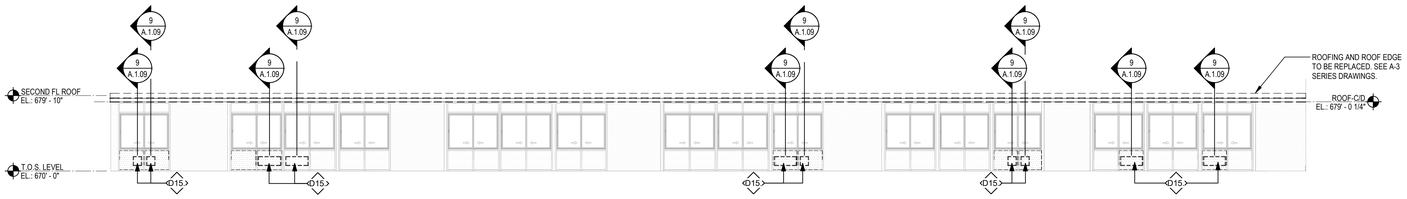
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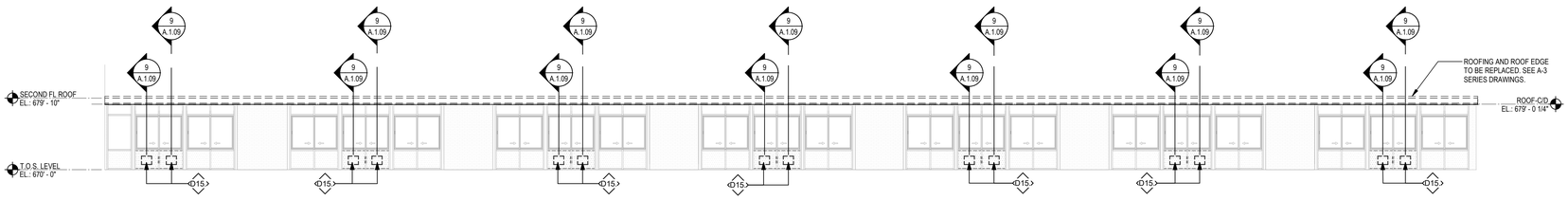
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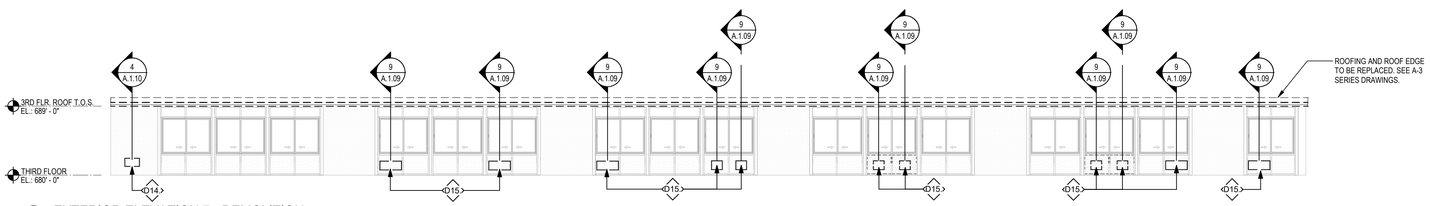
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SCALE: 1/8" = 1'-0"



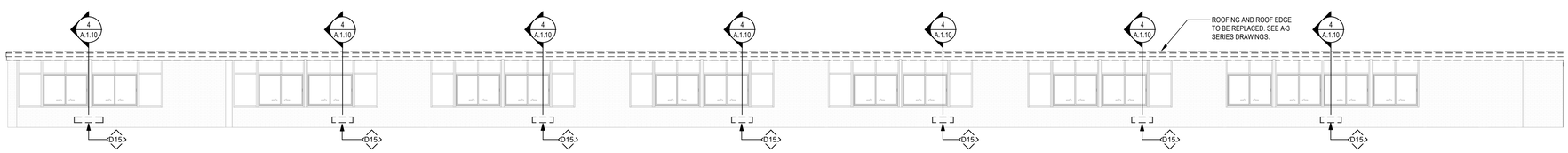
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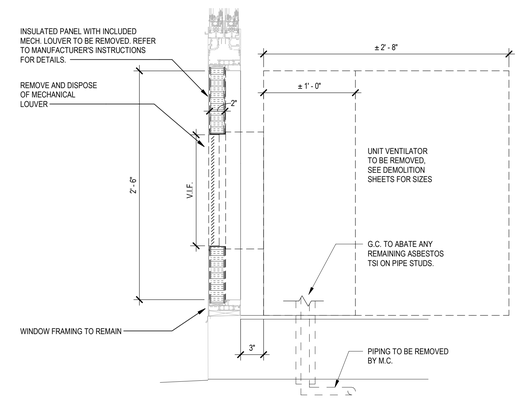
6 EXTERIOR ELEVATION 6 - DEMOLITION
SCALE: 1/8" = 1'-0"



7 EXTERIOR ELEVATION 7 - DEMOLITION
SCALE: 1/8" = 1'-0"



8 EXTERIOR ELEVATION 8 - DEMOLITION
SCALE: 1/8" = 1'-0"



9 WINDOW SECTION - LOUVER IN SPANDREL DEMO
SCALE: 1 1/2" = 1'-0"

DEMOLITION KEYNOTES

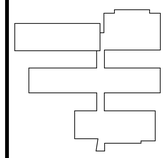
NUMBER	NOTE
D1.	GC SHALL COORDINATE WITH THE E.C. TO DISCONNECT AND DISPOSE OF EXISTING LIGHTING FIXTURES. GC TO REMOVE ALL EXISTING CEILINGS IN THE AUDITORIUM, THIS SCOPE INCLUDES ALL PLASTER CEILINGS, METAL RUNNERS AND FURRING, EXISTING ACOUSTICAL CEILING TILES AND GRID. DISPOSE OF ALL MATERIALS IN THEIR ENTIRETY. THE GC/EC SHALL SALVAGE THE SPEAKERS, STAGE LIGHTING, SOUND EQUIPMENT AND LIGHT BAR FOR REINSTALLATION. STORAGE LOCATION AND REQUIREMENTS OF THIS EQUIPMENT TO BE DESIGNATED BY OWNER. GC SHALL COORDINATE WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D2.	GC TO REMOVE THE INDICATED PORTION OF THE EXISTING FULL HEIGHT GYP. BD. WALLS ON METAL STUDS. REMOVED PORTIONS SHALL BE DISPOSED OF IN THEIR ENTIRETY. REFER TO 1/A.1.08 AND 2/A.1.08. PATCH AND REPAIR ADJACENT FINISHES AS REQUIRED TO MATCH EXISTING WALLS.
D3.	GC TO REMOVE PROSCENIUM BULKHEAD IN ITS ENTIRETY. CLEAN AND PREP AREA TO RECEIVE NEW BULKHEAD.
D4.	GC TO REMOVE IDENTIFIED SEATING IN ITS ENTIRETY. REMOVE STUBS AND PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH AND PAINTING TO MATCH EXISTING FLOORS.
D5.	GC TO SAW CUT, REMOVE, AND DISPOSE OF THE PORTION OF EXISTING MASONRY WALL AS INDICATED ON FLOOR PLANS, SECTION VIEWS, AND INTERIOR ELEVATIONS. PATCH AND REPAIR ADJACENT FINISHES TO MATCH EXISTING.
D6.	GC TO REMOVE FLOOR RISERS DOWN TO THE AUDITORIUM FLOOR LEVEL. PATCH AND REPAIR FLOOR TO RECEIVE NEW FINISH AND PAINTING TO MATCH EXISTING FLOORS.
D7.	GC TO GRIND FLOOR AND PREP TO CREATE A LEVEL FLOOR SURFACE AT EXIT LOCATION.
D8.	GC TO REMOVE TOP PORTION OF GYP. BD. AND METAL STUD WALL AS INDICATED ON 3/A.1.08. INSTALL STRUCTURAL METAL STUDS TO INSURE INTEGRITY TO ADJACENT WALLS.
D9.	GC TO REMOVE CEILING IN ITS ENTIRETY. GC SHALL COORDINATE THIS REMOVAL WITH E.C. TO DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES. GC SHALL COORDINATE THIS REMOVAL WITH THE MC TO REMOVE ALL ATTACHED MECHANICAL LOUVERS, VENTS AND ASSOCIATED MECHANICAL EQUIPMENT.
D10.	EC TO REMOVE LIGHTING FIXTURES ON/IN CEILING. DISPOSE OF FIXTURES. COORDINATE WITH GC.
D11.	EC TO DOCUMENT THE LOCATION AND REMOVE LIGHTING FIXTURES ON/IN CEILING. STORE FIXTURES FOR LATER REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO BE DESIGNATED BY OWNER.
D12.	EC TO COORDINATE WITH GC TO REMOVE CEILING MOUNTED EQUIPMENT, INCLUDING PROJECTORS, SPEAKERS, ALARMS, ETC. AND TURN OVER TO OWNER.
D13.	GC TO REMOVE EXPOSED FLOORING TILES ONCE THE EXISTING UNIT VENTILATORS ARE DEMOED TO THE NEAREST FULL TILE.
D14.	MC TO COORDINATE LOCATIONS FOR GC TO REMOVE MECHANICAL LOUVERS OR GRILLES IN WALL. CLEAN AND PREP OPENING TO RECEIVE INFILL.
D15.	GC TO REMOVE FIXED WINDOW INSULATED PANELS WITH LOUVERS.
D16.	GC TO COORDINATE WITH MC THE LOCATIONS TO SAW CUT PORTION OF EXISTING MASONRY WALL. MC TO FIRESTOP OPENINGS. GC TO PATCH AND REPAIR OPENING TO RECEIVE NEW MECHANICAL DUCTWORK.
D17.	OWNER TO REMOVE EXISTING STAGE CURTAINS AND ASSOCIATED MATERIALS.
D18.	MC TO COORDINATE THE REMOVAL OF THE CEILING MOUNTED MECHANICAL EQUIPMENT - DUCTS, VENTS AND LOUVERS WITH THE GC. REFER TO THE M-DRAWINGS FOR INFORMATION.
D19.	EC TO REMOVE AND SALVAGE EXISTING HANGING LIGHT FIXTURES FOR FUTURE REINSTALLATION. COORDINATE WITH GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
D20.	GC TO REMOVE AND SALVAGE CEILING CROWN TRIM FOR REINSTALLATION. GC TO COORDINATE WITH OWNER REGARDING STORAGE LOCATION AND REQUIREMENTS.
D21.	GC TO REMOVE CARPET IN THIS AREA TO EXPOSE CONCRETE FLOOR FOR GRINDING. GC TO PROTECT ADJACENT CARPET DURING DEMOLITION AND CONSRUCTION.
D22.	EC TO DISCONNECT EXISTING UNIT VENTILATORS. GC TO REMOVE AND DISPOSE OF THE UNIT VENTILATORS, COORDINATE WITH MC. GC TO PATCH FLOOR AT PIPE OPENING, SEE A 1.09/9 FOR DETAIL.
D23.	GC TO REMOVE FLOORING AND WALL BASE IN ITS ENTIRETY.
D24.	MC TO CORE DRILL THROUGH EXISTING FLOOR DECK FOR PROPOSED PLUMBING INSTALLATION, REFER TO A.2.03 AND A.2.05. GC TO PATCH AS NEEDED.
D25.	GC TO REMOVE WALLBASE IN WORK AREA.
D26.	EC TO DISCONNECT AND REMOVE ALL ELECTRICAL FIXTURES IN WORK AREA, INCLUDING, BUT NOT LIMITED TO, LIGHT SWITCHES, ELECTRICAL OUTLETS, FIRE SAFETY DEVICES, ETC. THIS INCLUDES OVERHEAD WIRING IN THE PROXIMITY OF PROPOSED COLUMN LOCATION.
D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
D28.	GC TO REMOVE LOCKERS AND LOCKER BASES IN WORK AREA. STORE TO REINSTALL.

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	INDICATES EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
	INDICATES REMOVAL AND DISPOSAL OF SUSPENDED LIGHT FIXTURE.
	INDICATES REMOVAL AND STORAGE FOR LATER REINSTALLATION OF 2 x 4 ACOUSTICAL CEILING LIGHT FIXTURE.
	INDICATES REMOVAL AND STORAGE FOR LATER REINSTALLATION OF 2 x 2 ACOUSTICAL CEILING LIGHT FIXTURE.
	INDICATES REMOVAL AND DISPOSAL MECHANICAL DIFFUSERS/RETURNS. REFER TO M-SERIES DEMO DRAWINGS FOR INFORMATION.
	INDICATES REMOVAL AND DISPOSAL MECHANICAL LOUVERS. REFER TO M-SERIES DEMO DRAWINGS FOR INFORMATION.
	INDICATES REMOVAL AND STORAGE FOR LATER REINSTALLATION OF EXISTING SUSPENDED LIGHT FIXTURE.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLE BLOCK FOR ADDITIONAL INFORMATION.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

EXTERIOR DEMOLITION ELEVATIONS

DWG TITLE

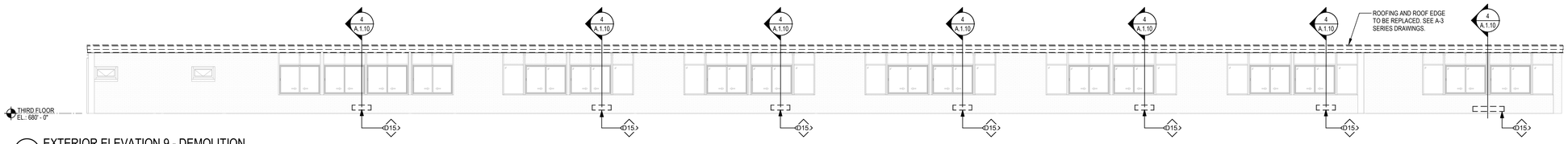
DRAWING BY:	EN, RK
CHECKED BY:	RLS, JBR

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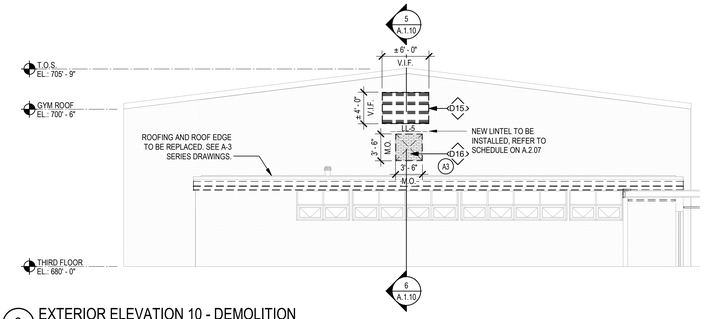
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	EXTERIOR DEMOLITION ELEVATIONS
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
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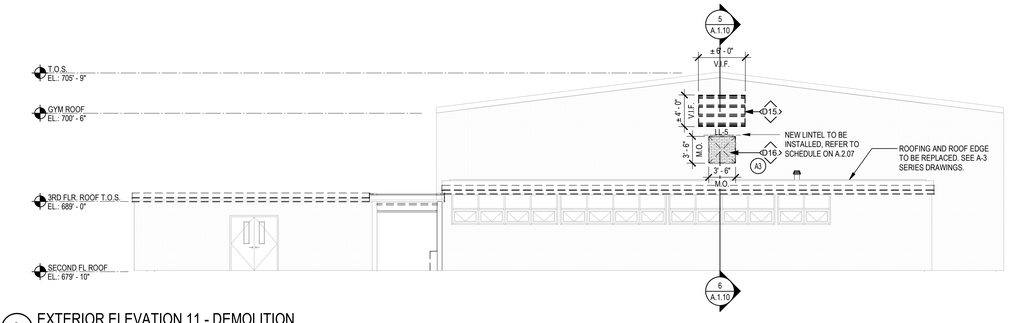
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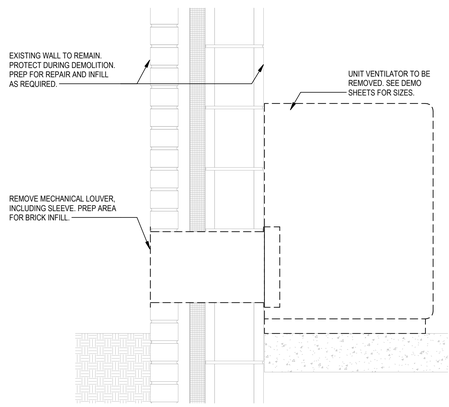
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SCALE: 1/8" = 1'-0"



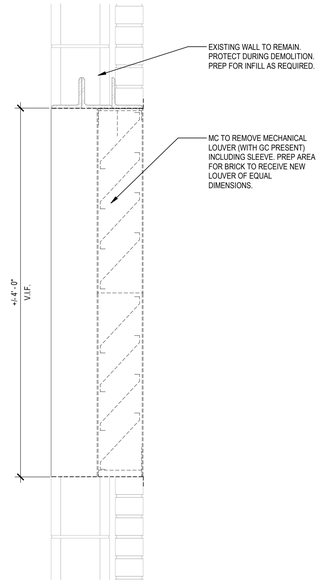
2 EXTERIOR ELEVATION 10 - DEMOLITION
SCALE: 1/8" = 1'-0"



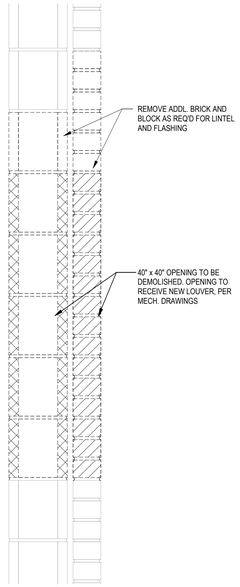
3 EXTERIOR ELEVATION 11 - DEMOLITION
SCALE: 1/8" = 1'-0"



4 WALL SECTION - LOUVER DEMO
SCALE: 1 1/2" = 1'-0"



5 WALL SECTION - GYM LOUVER DEMO
SCALE: 1 1/2" = 1'-0"



6 WALL SECTION - GYM OPENING DEMO
SCALE: 1 1/2" = 1'-0"

DEMOLITION KEYNOTES	
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D27.	GC TO SAW CUT SLAB. REMOVE FLOOR FINISH IN WORK AREA.
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DEMOLITION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
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	INDICATES REMOVAL AND STORAGE FOR LATER REINSTALLATION OF EXISTING SUSPENDED LIGHT FIXTURE.
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLE BLOCK FOR ADDITIONAL INFORMATION.

HAZARDOUS MATERIALS SYMBOLS

(A1) **INDICATES ASSUMED ASBESTOS CONTAINING PIPING AND ASSOCIATED FITTINGS. REMOVAL SHALL BE IN COMPLIANCE WITH CODE RULE 56 AND SPECIFICATIONS. ASSUME AT ALL UVs.**

(A2) **INDICATES ASBESTOS CONTAINING FLOORING / TILE. REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

(A3) **INDICATED ASBESTOS CONTAINING EXTERIOR WALL CONSTRUCTION.REMOVAL SHALL BE IN COMPLIANCE WITH CODE ULE 56 AND SPECIFICATIONS**

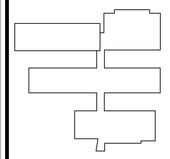
NOTE: SUSPECTED ASBESTOS IN STUB PIPE INSULATION AT UV DEMOLITION.

REFER TO PRE-CONSTRUCTION SURVEY, BULK SAMPLING, AND ANALYSIS OF SUSPECT HAZARDOUS MATERIALS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING, LEAD CONTAINING, AND PCB CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES, WHICH MAY BE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

EXTERIOR DEMOLITION ELEVATIONS

DWG TITLE

DRAWING BY: EN, RK
CHECKED BY: RLS, JBR

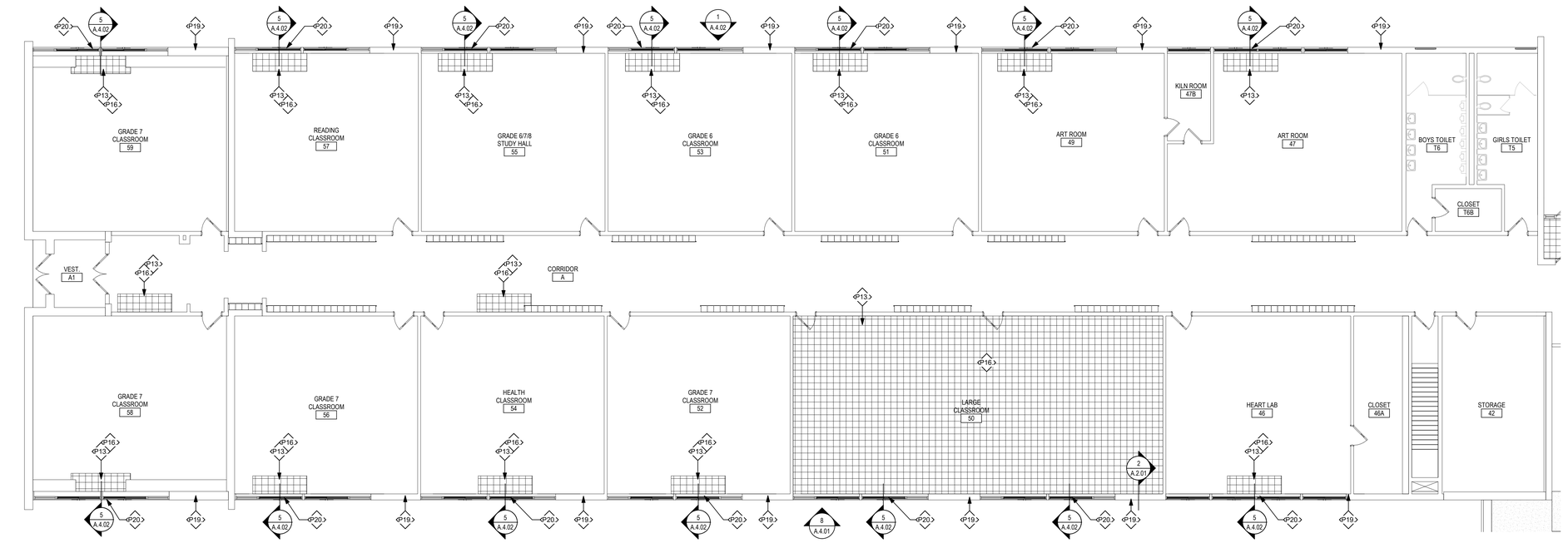
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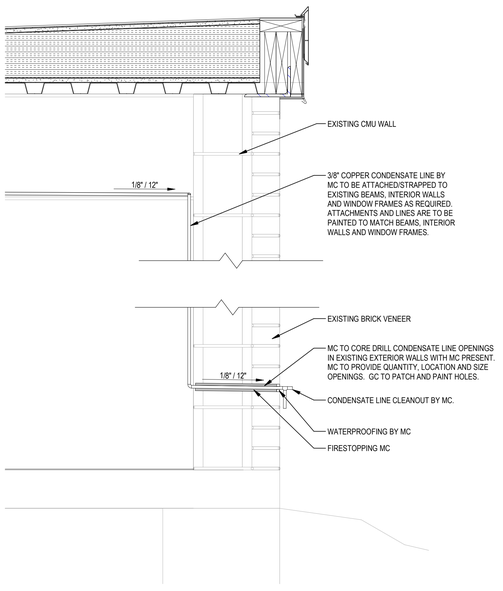
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	EXTERIOR DEMOLITION ELEVATIONS
SCALE:	AS NOTED
DATE:	6/24/25
BID PICK UP:	10/26/2026
FILE No.	25-273

A.1.10



1 AREA "A" - PROPOSED PLAN

SCALE: 1/8" = 1'-0"



2 SECTION DETAIL - CONDENSATE LINES

SCALE: 1 1/2" = 1'-0"

PROPOSED KEYNOTES

NUMBER	NOTE
P1.	GC SHALL USE SELF-LEVELING PRODUCT TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB. FLASH PATCH AND PREP SURFACE AS NEEDED TO RECEIVE NEW FINISH FLOORING.
P2.	GC TO PROVIDE FLASH PATCHING TO ACHIEVE REQUIRED SLOPE AS INDICATED.
P3.	EC TO REINSTALL EXISTING SALVAGED LIGHT FIXTURES ON/INTO NEW CEILING GRID SYSTEM IN THIER PREEXISTING LOCATIONS. COORDINATE WITH GC.
P4.	GC TO PROVIDE AND INSTALL NEW CEILING GRID AND TILE SYSTEM PER SPECIFICATIONS. COORDINATE LAYOUT WITH ELECTRICAL CONTRACTOR.
P5.	OWNER TO REINSTALL EXISTING STAGE CURTAINS AND ALL ASSOCIATED MATERIALS.
P6.	EC TO INSTALL OWNER-FURNISHED (EPC-PROP2) FIXTURES. EC SHALL COORDINATE DELIVERY, STORAGE AND INSTALLATION WITH THE GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
P7.	GC TO PREP, PRIME AND PAINT (P3) ALL EXPOSED ELEMENTS THROUGHOUT AREAS INDICATED. GC SHALL ALSO PAINT (P3) WALL PORTIONS AS INDICATED IN DETAIL 3/B10.03.
P8.	GC TO PROVIDE PAINTED STAIR NOSING WITH CONTRASTING COLOR STRIPPING PER SPECIFICATIONS.
P10.	GC TO PROVIDE CONCRETE INFILL OF BRICK SET BACK. HEIGHT TO MATCH ADJACENT SIDEWALK ELEVATION.
P11.	GC TO PROVIDE NEW 1 1/2" DIA., SCH. 40 FULLY WELDED STEEL HANDRAIL. POWDERCOATED FINISH. COLOR AS SELECTED BY ARCHITECT.
P12.	GC TO INSTALL HOT WATER PIPING, INCLUDING 2" THICK INSULATION SURROUNDING THEM, WITH MC PRESENT.
P13.	GC TO REPAIR WALLBASE (COLOR SELECTED BY ARCHITECT), PATCH AND FILL MECHANICAL PENETRATIONS, PAINT THE WALLS TO MATCH THE EXISTING (WORK AREA ONLY) FOLLOWING THE REMOVAL OF THE UNIT VENTILATORS.
P14.	GC TO PATCH, PRIME AND PAINT, THEN REINSTALL EXISTING CEILING TRIM.
P15.	NEW BEAM TO BE INSTALLED. PRIME AND PAINT. SEE A300 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
P16.	GC TO FINISH FLOORING IN WORK AREA TO MATCH SURROUNDING.
P17.	GC TO TOOTH IN NEW CMU CONSTRUCTION. FINISH TO MATCH SURROUNDING.
P18.	NEW COLUMN INSTALLED. PRIME AND PAINT.
P19.	MC TO CORE DRILL CONDENSATE PIPE OPENINGS WITH GC PRESENT. REFER TO DETAILS 2/A.2.01, 6/A.0.03 AND 7/A.10.03 FOR INFORMATION. GC TO PATCH AS NEEDED.
P20.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.
P21.	MC TO PROVIDE NEW MECHANICAL AIR UNITS. REFER TO M-SERIES DRWINGS FOR INFORMATION.

FLOOR FINISHES

SYMBOL	DESCRIPTION
	12X12 VCT II BY TARKETT, COLOR: 323 STARRY NIGHT OR COLOR APPROVED BY ARCHITECT AND OWNER
	PANELS, MATCH SURROUNDING, COLOR TO BE APPROVED BY ARCHITECT AND OWNER

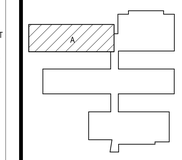
GENERAL CONSTRUCTION NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA A - PROPOSED PLAN

DRAWING BY: EN, RLS
CHECKED BY: RLS, JBR

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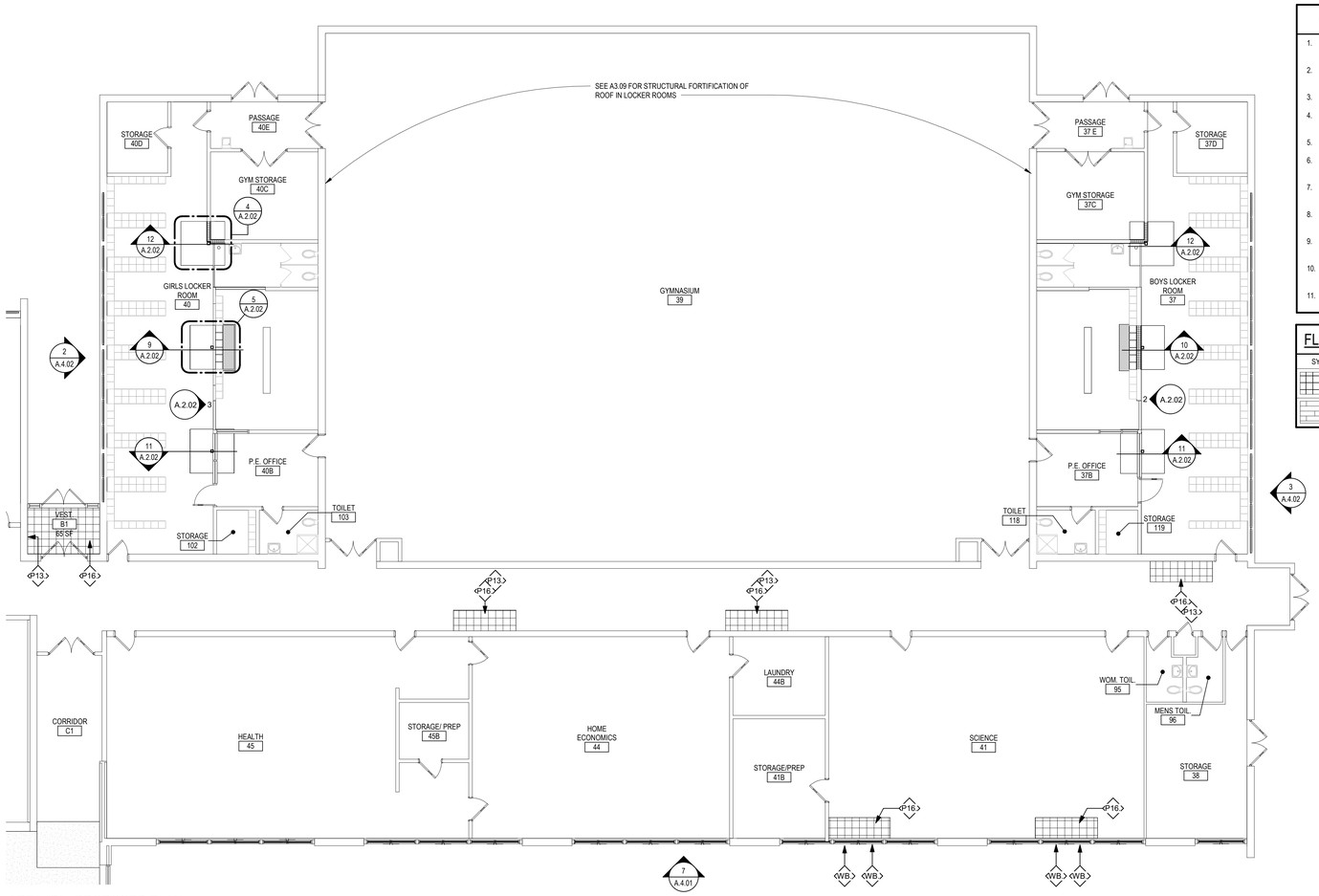
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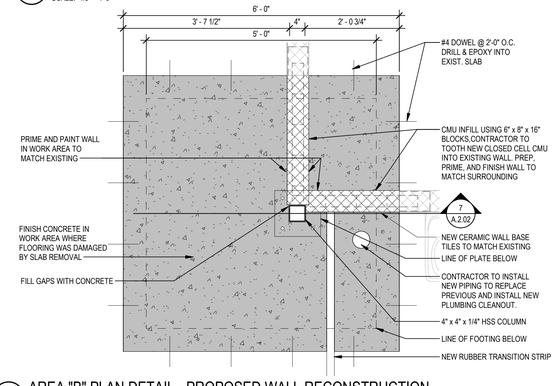
SED No. 13-22-01-04-0-008-017
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT: BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE: AREA A - PROPOSED PLAN

SCALE: AS NOTED
DATE: 6/24/26
BID PICK UP: 10/26/2026
FILE No. 25-273

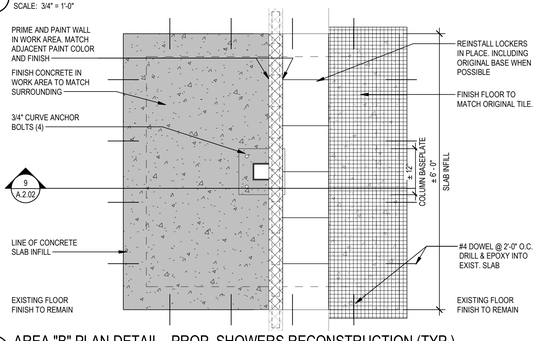
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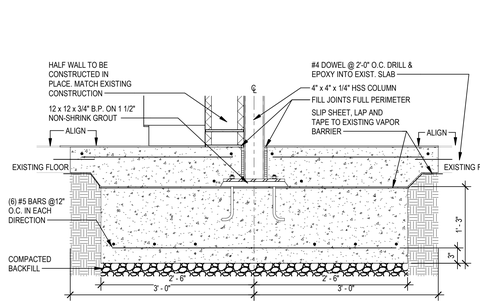
1 AREA "B" - PROPOSED PLAN
SCALE: 1/8" = 1'-0"



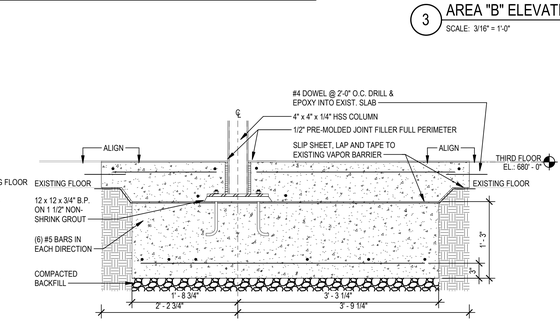
4 AREA "B" PLAN DETAIL - PROPOSED WALL RECONSTRUCTION
SCALE: 3/4" = 1'-0"



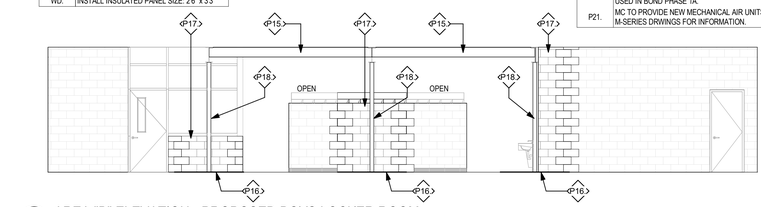
5 AREA "B" PLAN DETAIL - PROP. SHOWERS RECONSTRUCTION (TYP.)
SCALE: 3/4" = 1'-0"



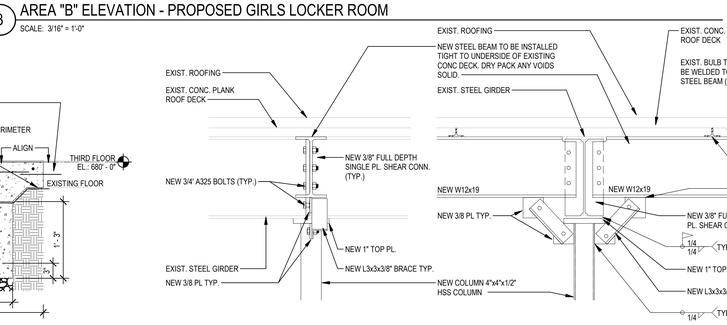
6 AREA "B" SECTION DETAIL - CONCENTRIC FOOTING
SCALE: 1" = 1'-0"



7 AREA "B" SECTION DETAIL - ECCCENTRIC FOOTING
SCALE: 1" = 1'-0"

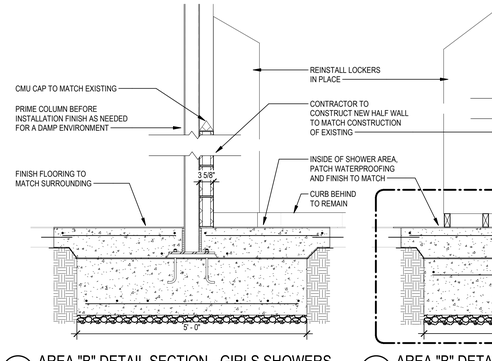


2 AREA "B" ELEVATION - PROPOSED BOYS LOCKER ROOM
SCALE: 3/16" = 1'-0"

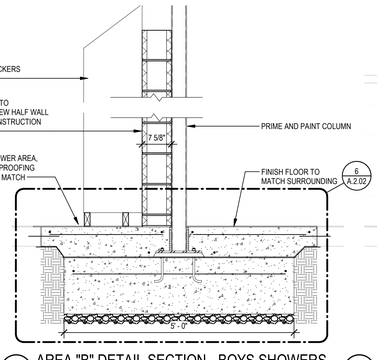


3 AREA "B" ELEVATION - PROPOSED GIRLS LOCKER ROOM
SCALE: 3/16" = 1'-0"

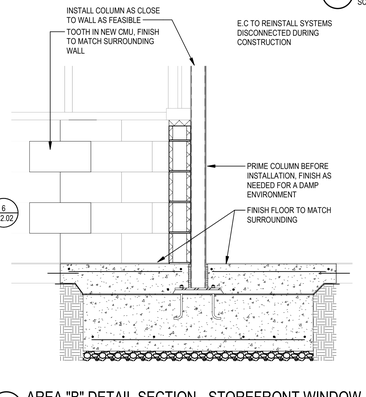
8 AREA "B" SECTION DETAIL - BEAM TO COLUMN
SCALE: 1" = 1'-0"



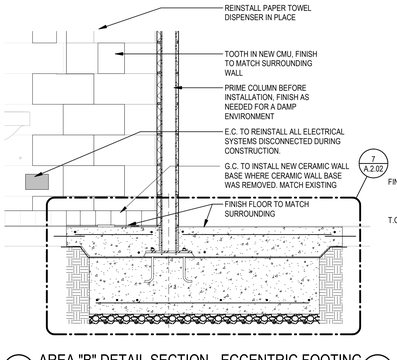
9 AREA "B" DETAIL SECTION - GIRLS SHOWERS
SCALE: 3/4" = 1'-0"



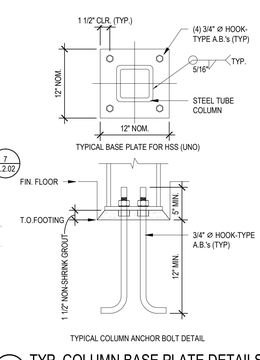
10 AREA "B" DETAIL SECTION - BOYS SHOWERS
SCALE: 3/4" = 1'-0"



11 AREA "B" DETAIL SECTION - STOREFRONT WINDOW
SCALE: 3/4" = 1'-0"



12 AREA "B" DETAIL SECTION - ECCENTRIC FOOTING
SCALE: 3/4" = 1'-0"



13 TYP. COLUMN BASE PLATE DETAILS
SCALE: 3/4" = 1'-0"

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FLOOR FINISHES

SYMBOL	DESCRIPTION
	12X12 VCT II BY TARKETT, COLOR: 323 STARRY NIGHT OR COLOR APPROVED BY ARCHITECT AND OWNER
	PANELS, MATCH SURROUNDING, COLOR TO BE APPROVED BY ARCHITECT AND OWNER

WINDOW KEYNOTES

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WA.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'0.5"
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WD.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'3"

PLUMBING WORK NOTES

GC SHALL HAVE A LICENSED PLUMBING CONTRACTOR (PC) PERFORM THE FOLLOWING NEW WORK:

1. PC SHALL FURNISH & INSTALL A NEW 4" DECK PLATE CLEANOUT FOR THE EXISTING 4" SW PIPING WHICH WAS CUT BACK TO ACCOMMODATE NEW COLUMN FOOTING. THE DECK PLATE CLEANOUT SHALL BE AS FOLLOWS:
   A. ZURN MODEL ZN 1400-BZ1-VP CLEAN-OUT (OR APPROVED EQUIVALENT) WITH DURA-COATED IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATER TIGHT THREADED ABS TAPERED PLUG, POLISHED NICKEL BRONZE TOP AND VANDAL-PROOF SCREWS. CLEANOUT SIZE SHALL MATCH PIPE SIZE.
2. PC SHALL BUDGET FOR A MINIMUM OF TWO (2) FLOOR DECK PLATE CLEAN OUTS FOR THE SITUATION WHERE RE-ROUTED EXISTING 4" SW PIPING NEEDS TO HAVE ITS DIRECTION CHANGED BY 90 DEGREES.
3. AFTER PC HAS FINISHED WORK, GE TO BACKFILL EXISTING/RE-ROUTED PIPING & PC TO ENSURE THAT NEW DECK PLATE FLOOR CLEANOUT(S) IS/ARE FLUSH TO FINISHED FLOOR OF ROOM/SPACE.

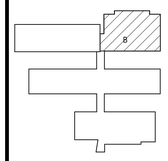
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P3.	EC TO REINSTALL EXISTING SALVAGED LIGHT FIXTURES ON/INTO NEW CEILING GRID SYSTEM IN THIER PREEXISTING LOCATIONS. COORDINATE WITH GC.
P4.	GC TO PROVIDE AND INSTALL NEW CEILING GRID AND TILE SYSTEM PER SPECIFICATIONS. COORDINATE LAYOUT WITH ELECTRICAL CONTRACTOR.
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P15.	NEW BEAM TO BE INSTALLED. PRIME AND PAINT. SEE A300 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
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P17.	GC TO TOOTH IN NEW CMU CONSTRUCTION. FINISH TO MATCH SURROUNDING.
P18.	NEW COLUMN INSTALLED. PRIME AND PAINT.
P19.	MC TO CORE DRILL CONDENSATE PIPE OPENINGS WITH GC PRESENT. REFER TO DETAILS 2/A.2.01, 6/A.0.03 AND 7/A.10.03 FOR INFORMATION. GC TO PATCH AS NEEDED.
P20.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.
P21.	MC TO PROVIDE NEW MECHANICAL AIR UNITS. REFER TO M-SERIES DRAWINGS FOR INFORMATION.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA B - PROPOSED PLAN

DWG TITLE

DRAWING BY: EN
CHECKED BY: RLS, JBR

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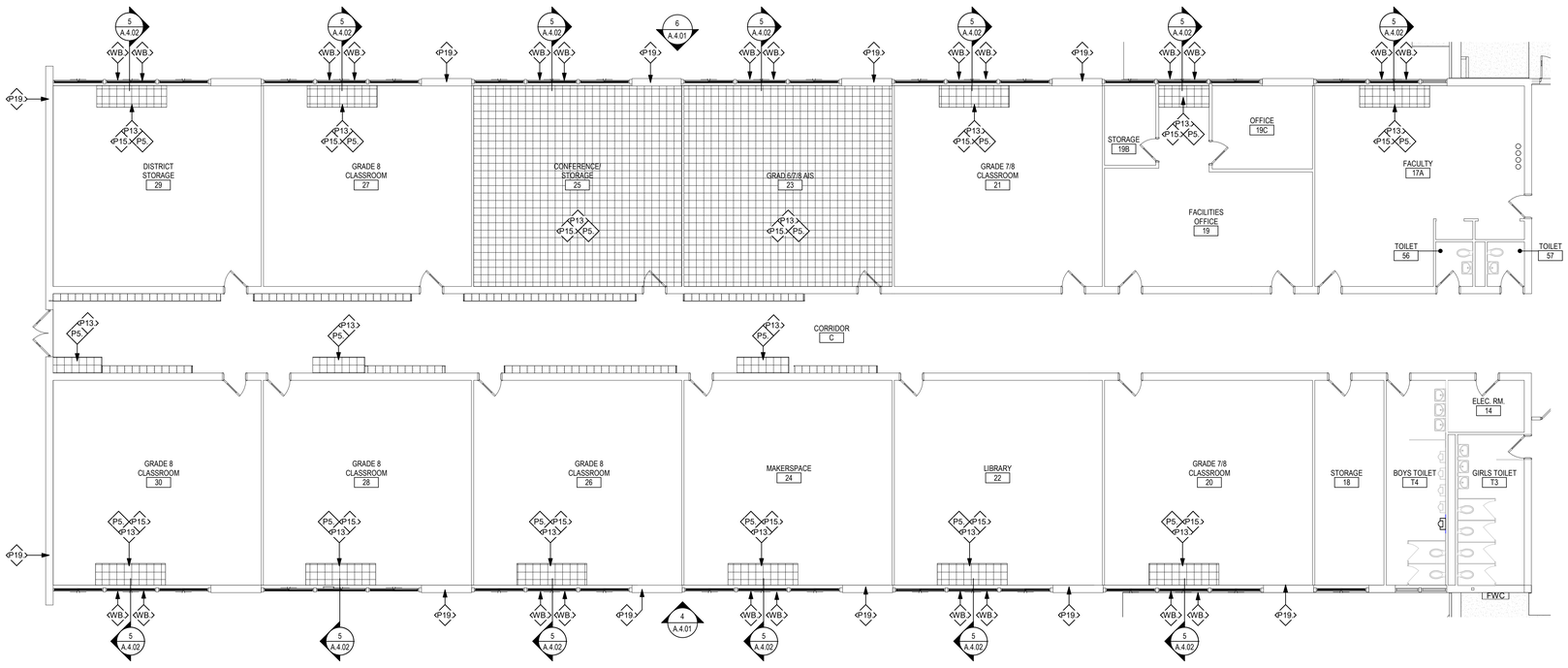
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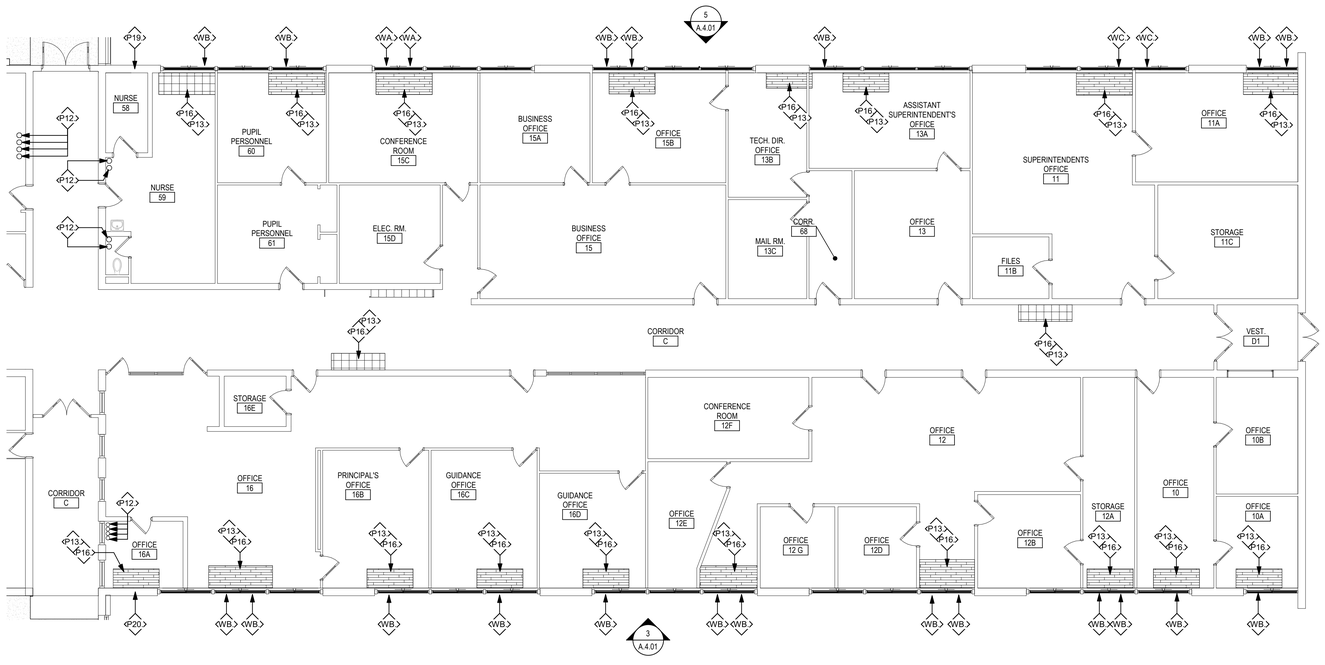
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA B - PROPOSED PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
File No.	25-273

A.2.02



1 AREA "C" - PROPOSED PLAN

SCALE: 1/8" = 1'-0"



2 AREA "D" - PROPOSED PLAN

SCALE: 1/8" = 1'-0"

PROPOSED KEYNOTES

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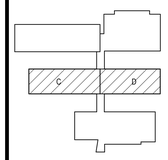
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREAS C & D - PROPOSED PLAN

DWG TITLE

DRAWING BY: EN, RLS

CHECKED BY: RLS, JBR

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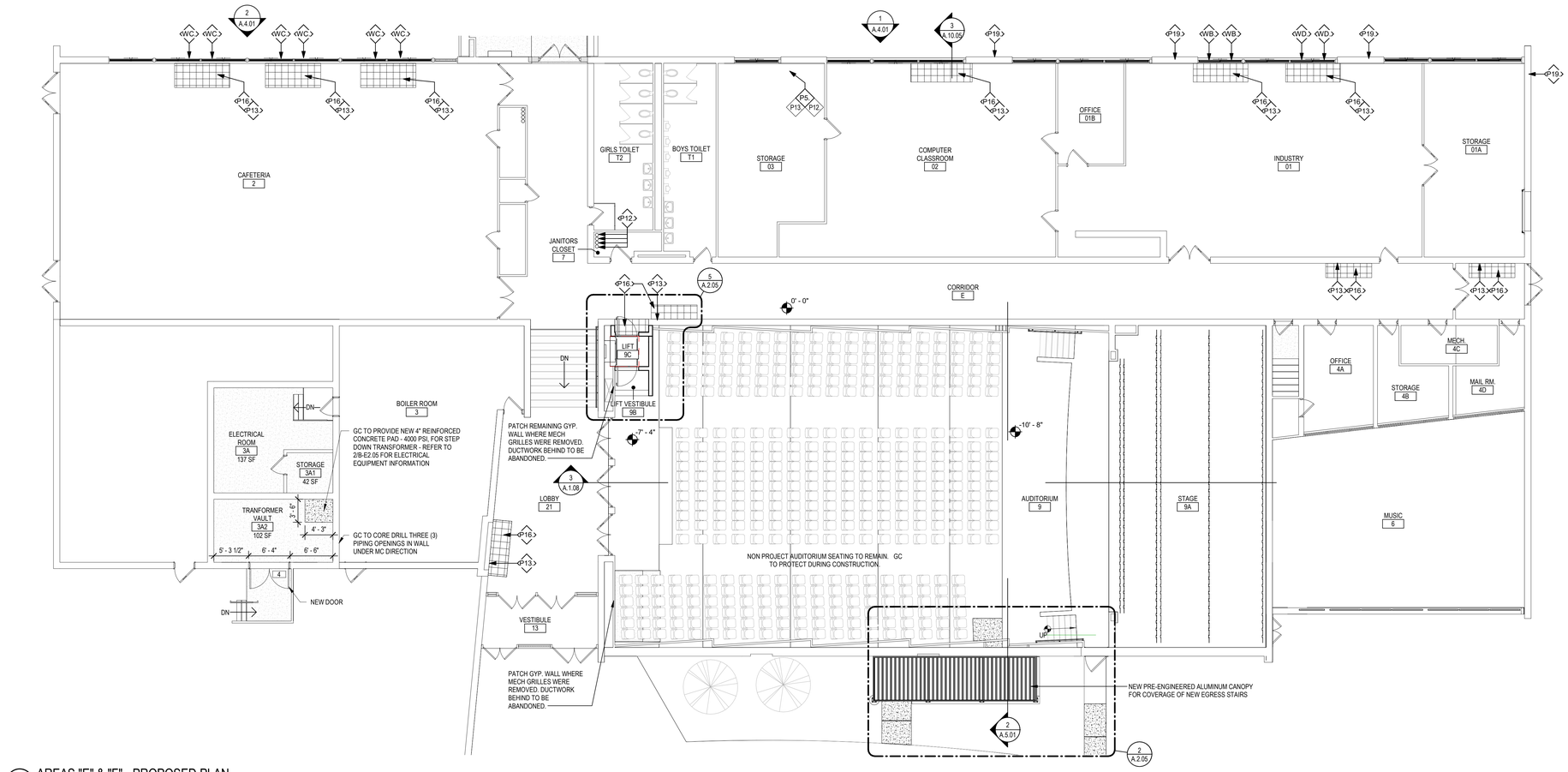
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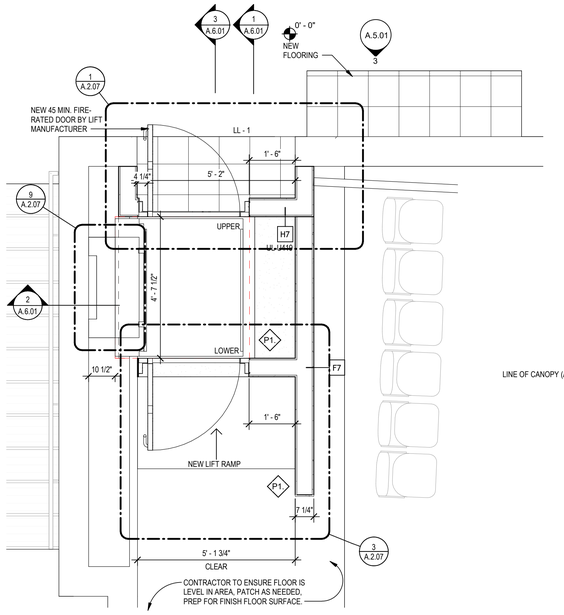
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREAS C & D - PROPOSED PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

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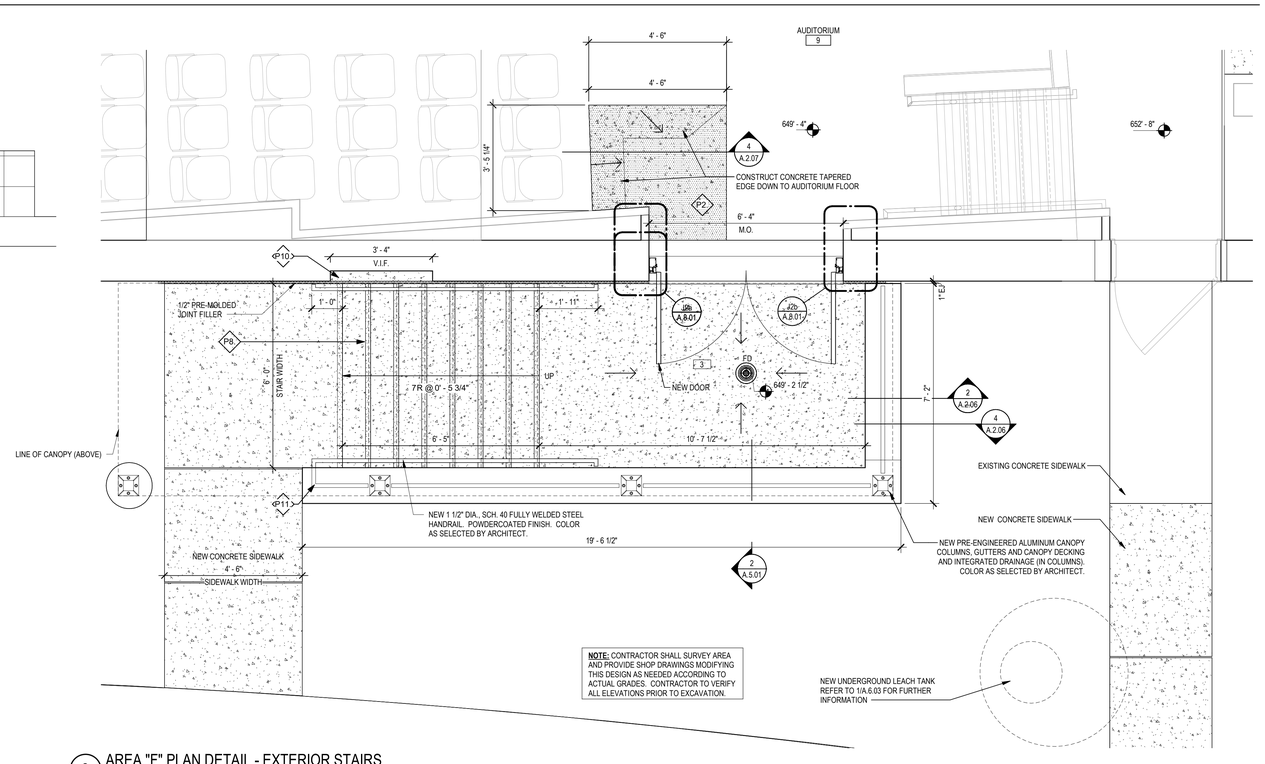
1 AREAS "E" & "F" - PROPOSED PLAN

SCALE: 1/8" = 1'-0"



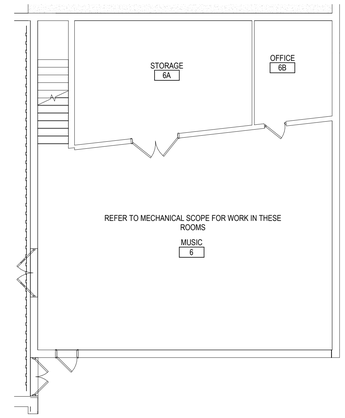
5 AREA "F" PLAN DETAIL - AUDITORIUM LIFT ROOM

SCALE: 1/2" = 1'-0"



2 AREA "F" PLAN DETAIL - EXTERIOR STAIRS

SCALE: 1/2" = 1'-0"



3 AREA 'F' - MUSIC ROOM PLAN

SCALE: 1/8" = 1'-0"

PROPOSED KEYNOTES

NUMBER	NOTE
P1.	GC SHALL USE SELF-LEVELING PRODUCT TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB. FLASH PATCH AND PREP SURFACE AS NEEDED TO RECEIVE NEW FINISH FLOORING.
P2.	GC TO PROVIDE FLASH PATCHING TO ACHIEVE REQUIRED SLOPE AS INDICATED.
P3.	EC TO REINSTALL EXISTING SALVAGED LIGHT FIXTURES ONINTO NEW CEILING GRID SYSTEM IN THIER PREEXISTING LOCATIONS. COORDINATE WITH GC.
P4.	GC TO PROVIDE AND INSTALL NEW CEILING GRID AND TILE SYSTEM PER SPECIFICATIONS. COORDINATE LAYOUT WITH ELECTRICAL CONTRACTOR.
P5.	OWNER TO REINSTALL EXISTING STAGE CURTAINS AND ALL ASSOCIATED MATERIALS.
P6.	EC TO INSTALL OWNER-FURNISHED (EPC-PROP2) FIXTURES. EC SHALL COORDINATE DELIVERY, STORAGE AND INSTALLATION WITH THE GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
P7.	GC TO PREP, PRIME AND PAINT (P3) ALL EXPOSED ELEMENTS THROUGHOUT AREAS INDICATED. GC SHALL ALSO PAINT (P3) WALL PORTIONS AS INDICATED IN DETAIL 3/B10.03.
P8.	GC TO PROVIDE PAINTED STAIR NOSING WITH CONTRASTING COLOR STRIPPING PER SPECIFICATIONS.
P10.	GC TO PROVIDE CONCRETE INFILL OF BRICK SET BACK. HEIGHT TO MATCH ADJACENT SIDEWALK ELEVATION.
P11.	GC TO PROVIDE NEW 1 1/2" DIA., SCH. 40 FULLY WELDED STEEL HANDRAIL. POWDERCOATED FINISH. COLOR AS SELECTED BY ARCHITECT.
P12.	GC TO INSTALL HOT WATER PIPING, INCLUDING 2" THICK INSULATION SURROUNDING THEM, WITH MC PRESENT.
P13.	GC TO REPAIR WALLBASE (COLOR SELECTED BY ARCHITECT), PATCH AND FILL MECHANICAL PENETRATIONS, PAINT THE WALLS TO MATCH THE EXISTING (WORK AREA ONLY) FOLLOWING THE REMOVAL OF THE UNIT VENTILATORS.
P14.	GC TO PATCH, PRIME AND PAINT, THEN REINSTALL EXISTING CEILING TRIM.
P15.	NEW BEAM TO BE INSTALLED. PRIME AND PAINT. SEE A300 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
P16.	GC TO FINISH FLOORING IN WORK AREA TO MATCH SURROUNDING.
P17.	GC TO TOOTH IN NEW CMU CONSTRUCTION. FINISH TO MATCH SURROUNDING.
P18.	NEW COLUMN INSTALLED. PRIME AND PAINT.
P19.	MC TO CORE DRILL CONDENSATE PIPE OPENINGS WITH GC PRESENT. REFER TO DETAILS 2/A.2.01, 6/A.0.03 AND 7/A.10.03 FOR INFORMATION. GC TO PATCH AS NEEDED.
P20.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.
P21.	MC TO PROVIDE NEW MECHANICAL AIR UNITS. REFER TO M-SERIES DRWINGS FOR INFORMATION.

CONSTRUCTION KEYNOTES

NUMBER	NOTE
C1.	EXISTING CEILING TO REMAIN.
C2.	EXISTING LIGHTING FIXTURES TO REMAIN.
C3.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.

FLOOR FINISHES

SYMBOL	DESCRIPTION
	12X12 VCT II BY TARKETT, COLOR: 323 STARRY NIGHT OR COLOR APPROVED BY ARCHITECT AND OWNER
	PANELS, MATCH SURROUNDING, COLOR TO BE APPROVED BY ARCHITECT AND OWNER

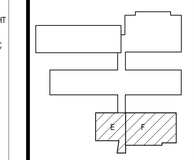
GENERAL CONSTRUCTION NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
2. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
4. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENT NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO OWNER.
5. CONTRACTOR SHALL PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
6. ALL PROJECT WASTE MATERIAL AND RUBBISH SHALL BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER & CONSTRUCTION MANAGER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
7. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
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NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREAS E & F- PROPOSED PLAN

DWG TITLE

DRAWING BY: EN/RLS

CHECKED BY: RLS/JBR

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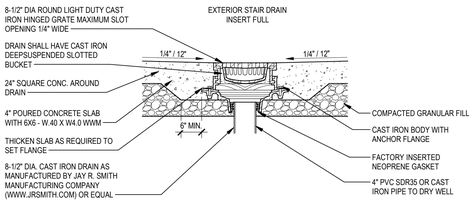
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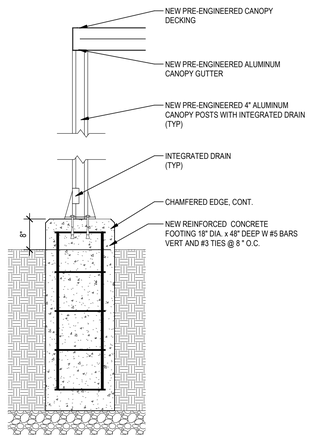
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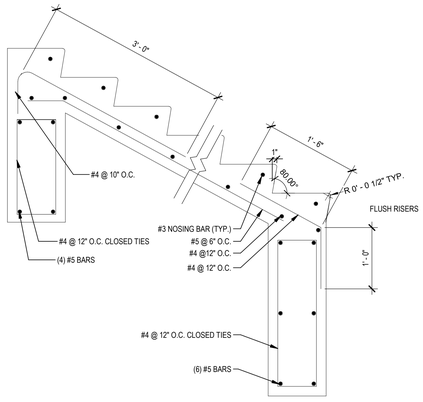
6 DETAIL SECTION - EXTERIOR STAIR DRAIN

SCALE: 1 1/2" = 1'-0"



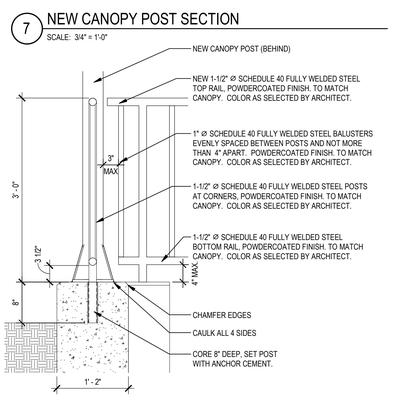
7 NEW CANOPY POST SECTION

SCALE: 3/4" = 1'-0"



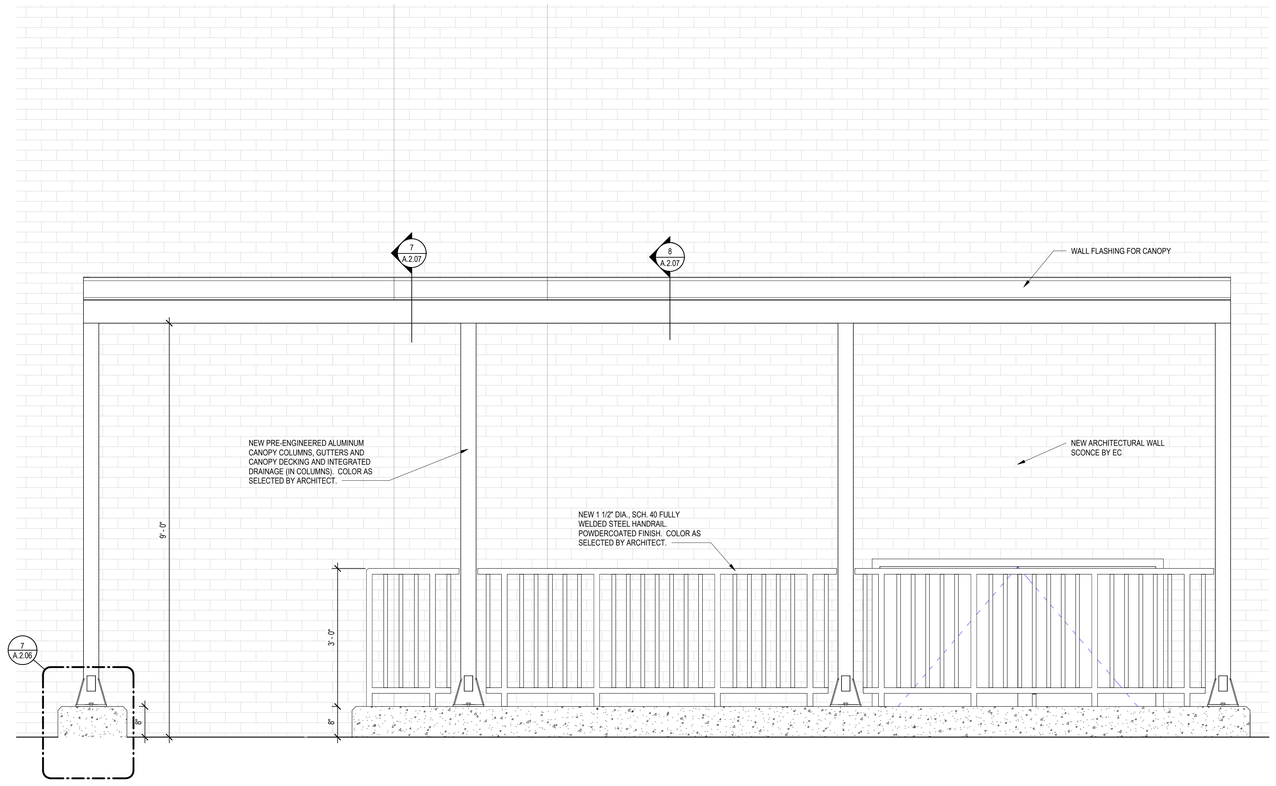
3 TYPICAL STAIR REINFORCEMENT

SCALE: 1" = 1'-0"



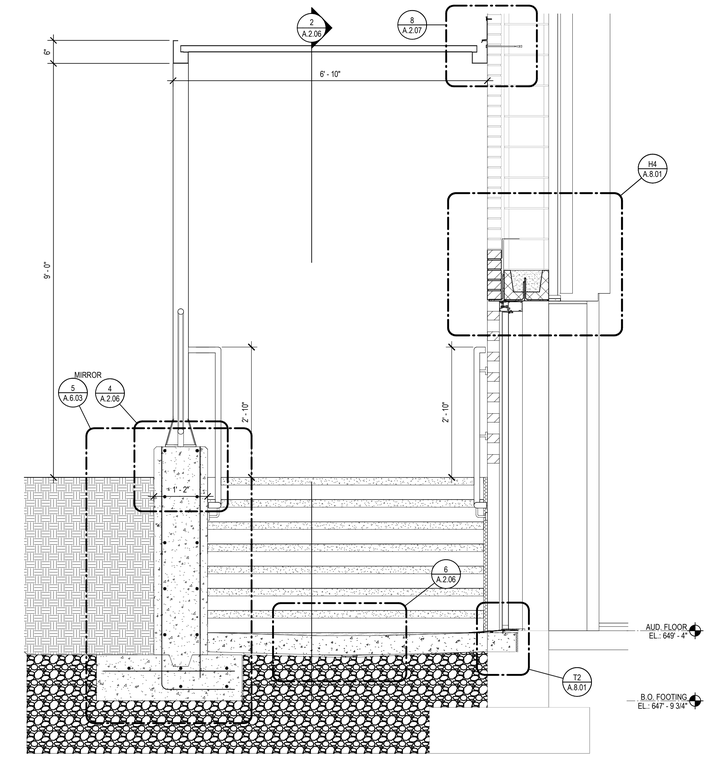
4 EXTERIOR RAILING DETAIL

SCALE: 1" = 1'-0"



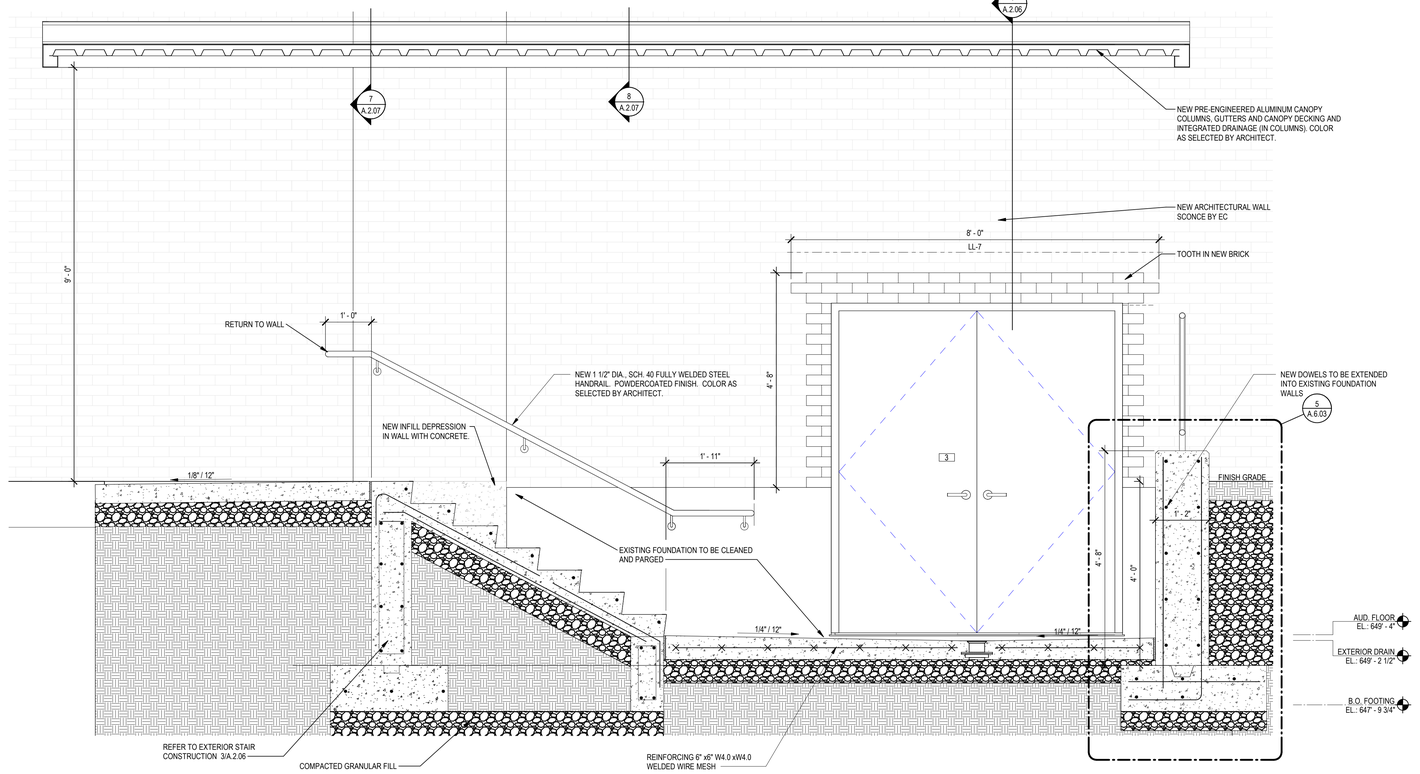
5 AREA "F" ELEVATION - EXTERIOR STAIRS

SCALE: 3/4" = 1'-0"



1 AREA "F" SECTION - NEW EXTERIOR DOOR

SCALE: 3/4" = 1'-0"



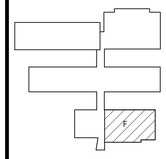
2 AREA "F" ELEVATION & SECTION - EXTERIOR EXIT STAIRS

SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

AREA F -EXTERIOR STAIRS

DRAWING BY: RLS

CHECKED BY: JBR

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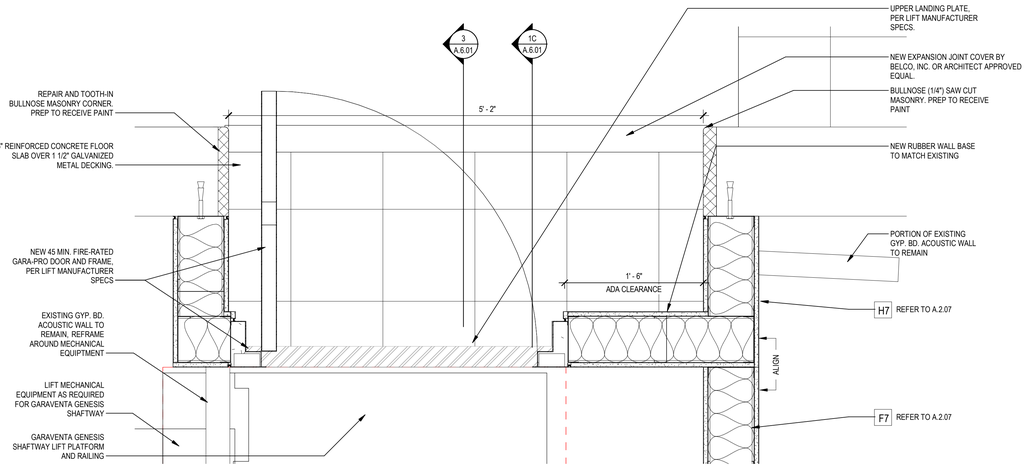
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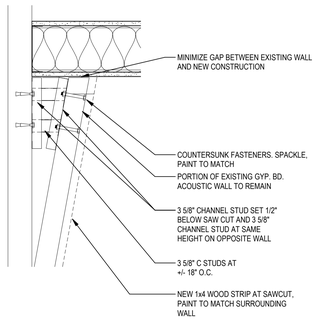
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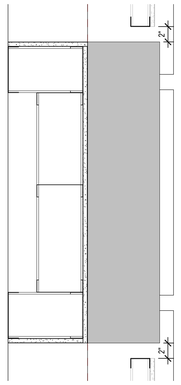
1 AUDITORIUM LIFT ROOM - TOP LEVEL PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



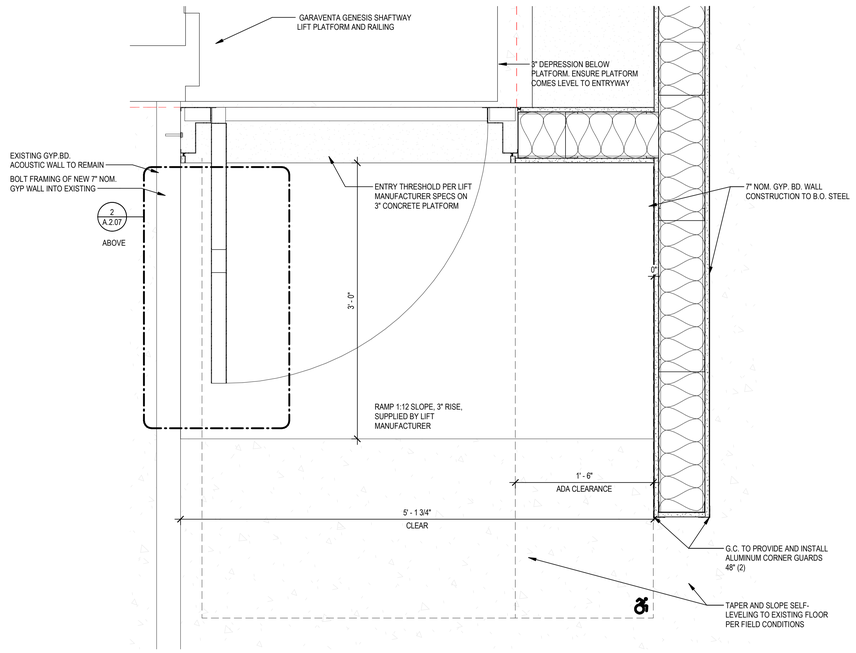
2 AUDITORIUM LIFT ROOM - UPPER LEVEL PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



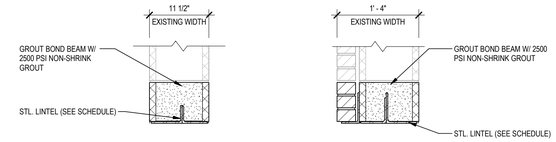
9 AUDITORIUM LIFT ROOM - LIFT STRUCTURE

SCALE: 1 1/2" = 1'-0"



3 AUDITORIUM LIFT ROOM - LOWER LEVEL PLAN DETAIL

SCALE: 1 1/2" = 1'-0"



12" CMU WALL

12" CMU WALL + 4" BRICK VENEER

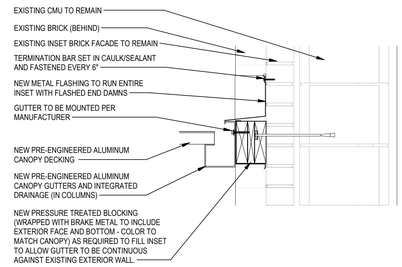
6 TYPICAL BOND BEAM/LINTEL DETAIL

SCALE: 1" = 1'-0"

LINTEL SCHEDULE

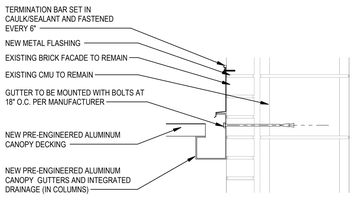
NOTE: ALL EXTERIOR STEEL ANGLES SHALL BE GALVANIZED

MARK	SIZE	LOCATION	MASONRY OPENING WIDTH
LL-1	(1) 6" x6" x5/16" + (1) 5" x5" x5/16" + (1) 3 1/2" x6"x 5/16" (LLV)	TRANSFORMER VAULT	76"
LL-2	L 6" x4" x3/8" (SLV)	AREAS 'C' & 'D' & 'E'	
LL-3	(1) 6" x 3-1/2" x5/16" (LLH) + (1) 5" x 3-1/2" x 5/16" (LLH)	CORRIDOR E	79"
LL-4	(1) 6" x 3-1/2" x5/16" (LLH) + (1) 5" x 3-1/2" x 5/16" (LLH)	CORRIDOR E	30"
LL-5	(1) 6" x6" x5/16" + (1) 5" x5" x5/16" + (1) 3 1/2" x6"x 5/16" (LLV)	GYM	58"
LL-6	(1) 6" x 3-1/2" x5/16" (LLH) + (1) 5" x 3-1/2" x 5/16" (LLH)	CORRIDOR E	19"
LL-7	(1) 6" x6" x5/16" + (1) 5" x5" x5/16" + (1) 3 1/2" x6"x 5/16" (LLV)	AUDITORIUM	76"



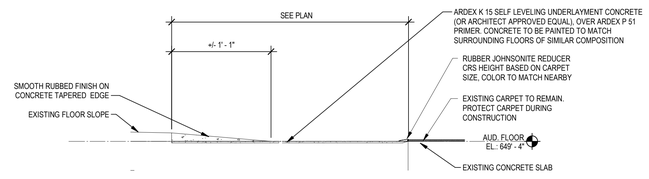
7 NEW CANOPY MOUNTING AT INSET

SCALE: 1 1/2" = 1'-0"



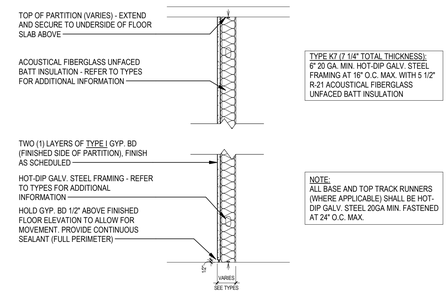
8 NEW CANOPY TYP. MOUNTING

SCALE: 1 1/2" = 1'-0"

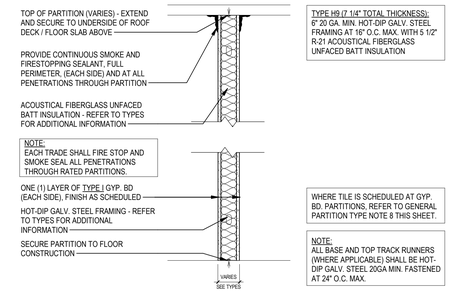


4 EXIT DOOR FLOOR

SCALE: 1 1/2" = 1'-0"

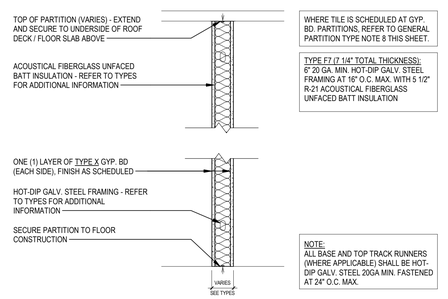


K7 7" NOM. GYP. BD. METAL STUD PARTITION - SINGLE SIDED



H7 7" NOM. GYP. BD. METAL STUD PARTITION (1-HR RATING)

UL U419 / STC 49, NON-BEARING INTERIOR PARTITION



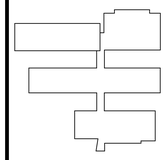
F7 7" NOM. GYP. BD. METAL STUD PARTITION

NON-RATED / NON-BEARING INTERIOR PARTITION

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

DETAILS & PARTITION TYPES

DWG TITLE

DRAWING BY: EN/RLS

CHECKED BY: RLS/JBR

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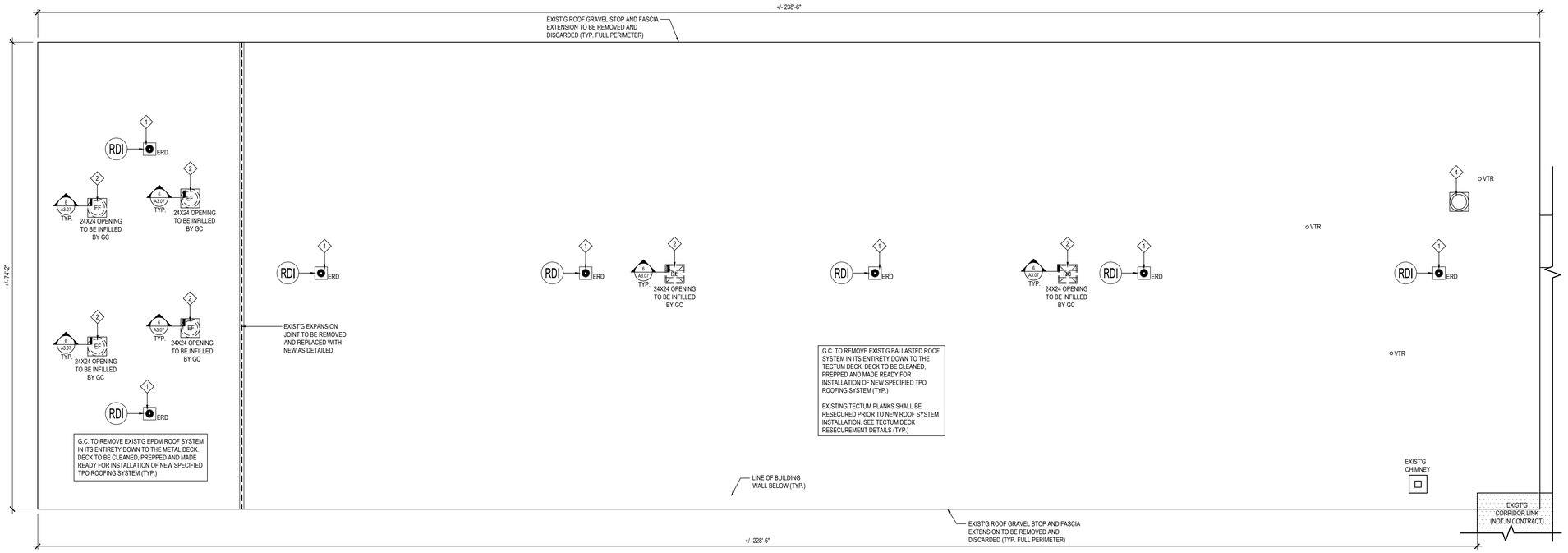
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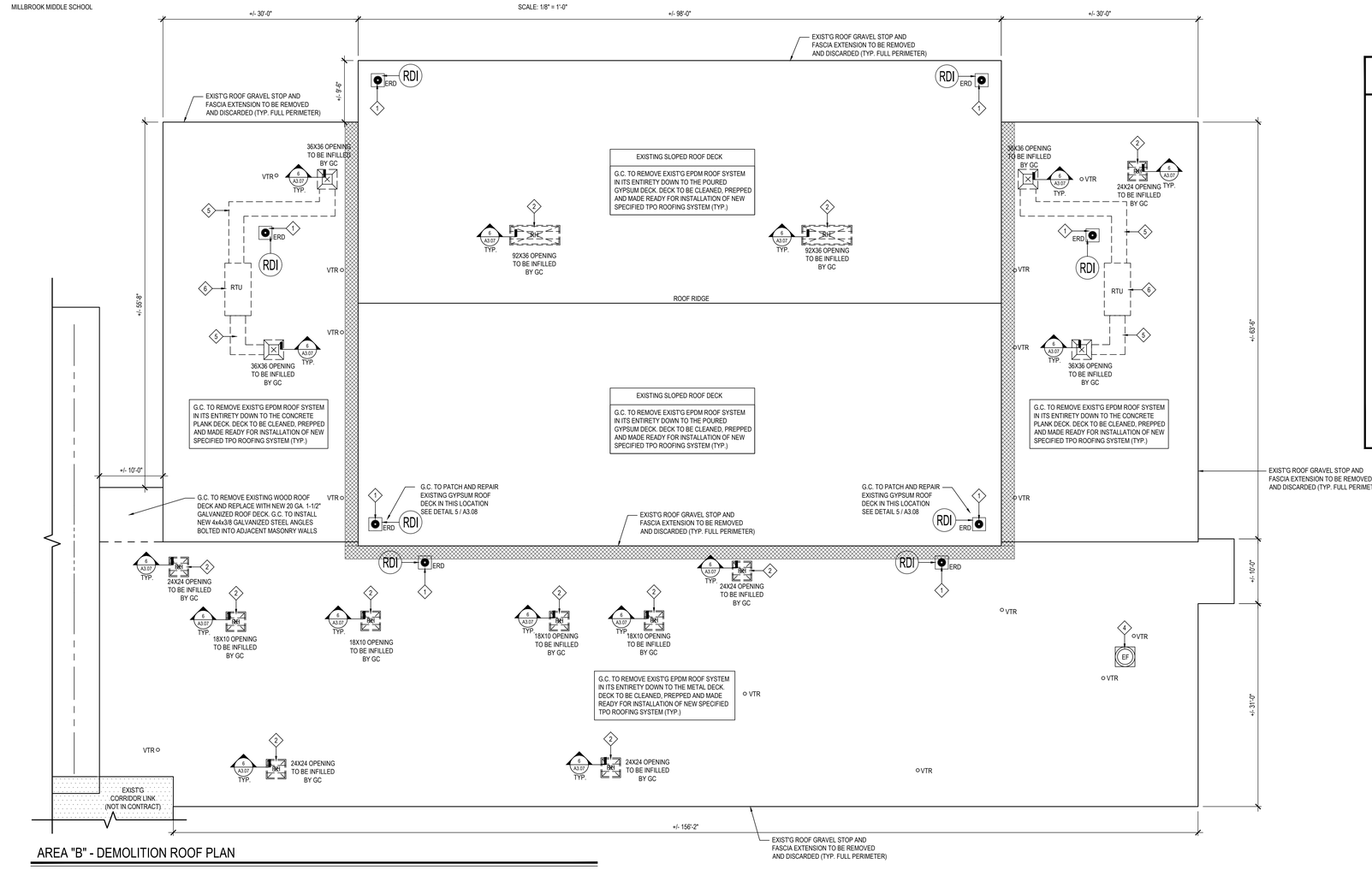
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	DETAILS & PARTITION TYPES
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.2.07



AREA "A" - DEMOLTION ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



AREA "B" - DEMOLITION ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF SYMBOL LEGEND

SYMBOL	DESCRIPTION
RTU	EXISTING ROOFTOOP HVAC EQUIPMENT
RH	EXISTING RELIEF HOOD EQUIPMENT
A/C	A/C CONDENSER UNIT ON EQUIPMENT RAILS
EF	EXISTING ROOF TOP EXHAUST FAN
	EXISTING ROOFTOP DUCTWORK PENETRATION LOCATIONS
ERD	EXISTING ROOF DRAIN LOCATIONS
VTR	EXISTING PLUMBING VENT THROUGH ROOF LOCATIONS
PP	EXISTING PITCH POCKET LOCATIONS
MVS	EXISTING METAL VENT STACK LOCATIONS
	AREAS WHERE EXISTING THROUGH-WALL FLASHING IS TO BE REMOVED AND RAISED. REFER TO DETAILS
RC #1	ROOF CORE LOCATIONS. REFER TO ROOF COMPOSITION NOTES
L.P.	LOW POINT OF TAPERED INSULATION
H.P.	HIGH POINT OF TAPERED INSULATION
	INDICATES SLOPE OF TAPERED INSULATION AT ¼" PER FT. U.O.N.
E.J.	INDICATES EXISTING ROOF EXPANSION JOINT LOCATION. G.C. TO REMOVE AND REPLACE AS DETAILED
	INDICATES NEW ROOF WALKWAY PADS

ROOF DEMOLITION WORK KEY NOTES

1. EXISTING ROOF DRAIN LOCATION
2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY THE M.C. THE G.C. TO REMOVE EXISTING ROOF CURB AND INFILL OPENING IN ROOF DECK. REFER TO ROOF DETAILS AND M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. EXISTING PLUMBING VENT THRU ROOF LOCATION
4. EXISTING EXHAUST FAN TO REMAIN. G.C. TO REMOVE EXISTING ROOF CURB AND DISCARD, G.C. TO INSTALL NEW ROOF CURB PROVIDED BY THE M.C., REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. MC TO COORDINATE WITH GC.
5. MC SHALL DEMO & REMOVE EXISTING ROOFTOP DUCTWORK AS SHOWN. MC TO COORDINATE REMOVAL OF DUCT PENTRATION THROUGH ROOF WITH GC. GC TO INFILL OPENING IN ROOF DECK. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
6. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT AS SHOWN. GC REMOVE SUPPORTS FOR UNIT WHICH ARE FLASHED INTO ROOF. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES:

1. GC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. GC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL OR TO REMAIN WITH PROJECT MC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE ROOF DECK OPENINGS THAT ARE TO BE INFILLED BY GC AFTER EQUIPMENT REMOVAL.

GENERAL NOTES

1. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED, AND PROTECTED.
2. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES AND THE INTERIOR OF THE BUILDING SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE RESPONSIBLE CONTRACTOR (I.E. GENERAL CONTRACTOR OR ASBESTOS CONTRACTOR) SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE ARCHITECT AND AT NO ADDITIONAL COST TO THE SCHOOL DISTRICT.
3. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION TO SCHOOL OPERATIONS AND SHALL COMPLY WITH PROCEDURES OUTLINED IN THE PROJECT MANUAL.
4. EACH CONTRACTOR SHALL ENFORCE STRICT DISCIPLINE AND GOOD ORDER AMONG THE CONTRACTOR'S EMPLOYEES AND OTHER PERSONS CARRYING OUT THE CONTRACT. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT SKILLED IN THE TASKS ASSIGNED TO THEM.
5. EACH CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL OF HIS OWN PROJECT WASTE MATERIAL AND RUBBISH FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
6. EACH CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
7. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR BIDDING AND ESTIMATING.
8. EACH CONTRACTOR TO PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
9. ALL PROJECT WASTE MATERIAL AND RUBBISH TO BE DISPOSED IN CONTAINERS PROVIDED BY EACH CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE CONSTRUCTION MANAGER AND OWNER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
10. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHOULD BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
11. ALL DEBRIS, DUST, AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.

HAZARDOUS MATERIALS NOTES

1. ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND /OR PCB CONTAINING CONSTRUCTION MATERIALS.
2. ALL INSPECTIONS AND TESTING HAVE BEEN PERFORMED BY:
   C.T. MALE ASSOCIATES
   50 CENTURY HILL DRIVE
   LATHAM, NY 12110
3. RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED POSITIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND / OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS, LEAD OR PCB CONTAINING MATERIALS (PROJECT MANUAL - INFORMATION AVAILABLE TO BIDDERS) FOR ADDITIONAL INFORMATION.
4. ALL DISTURBANCES, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS.
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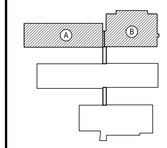
ASBESTOS CONTAINING BUILDING MATERIALS:

RDI — ROOF DRAIN INSULATION and TEN LINEAR FEET OF PIPING - ALL ROOF AREAS NOTE: ROOF AREAS C, D, E, and F WILL BE DIRECTLY IMPACTED DURING ROOF DECK REMOVAL

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF DEMOLITION PLAN - AREAS " A and B "

DRAWING BY: PJG
CHECK BY: JBR

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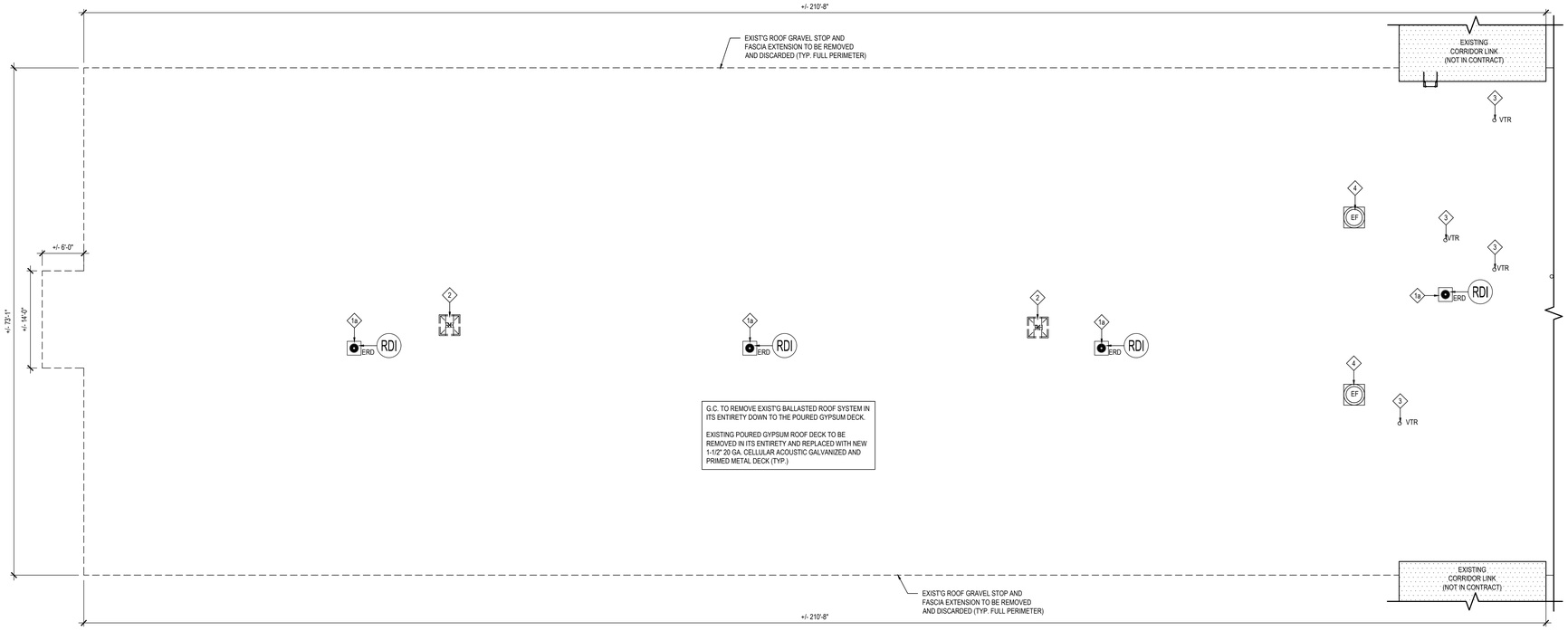
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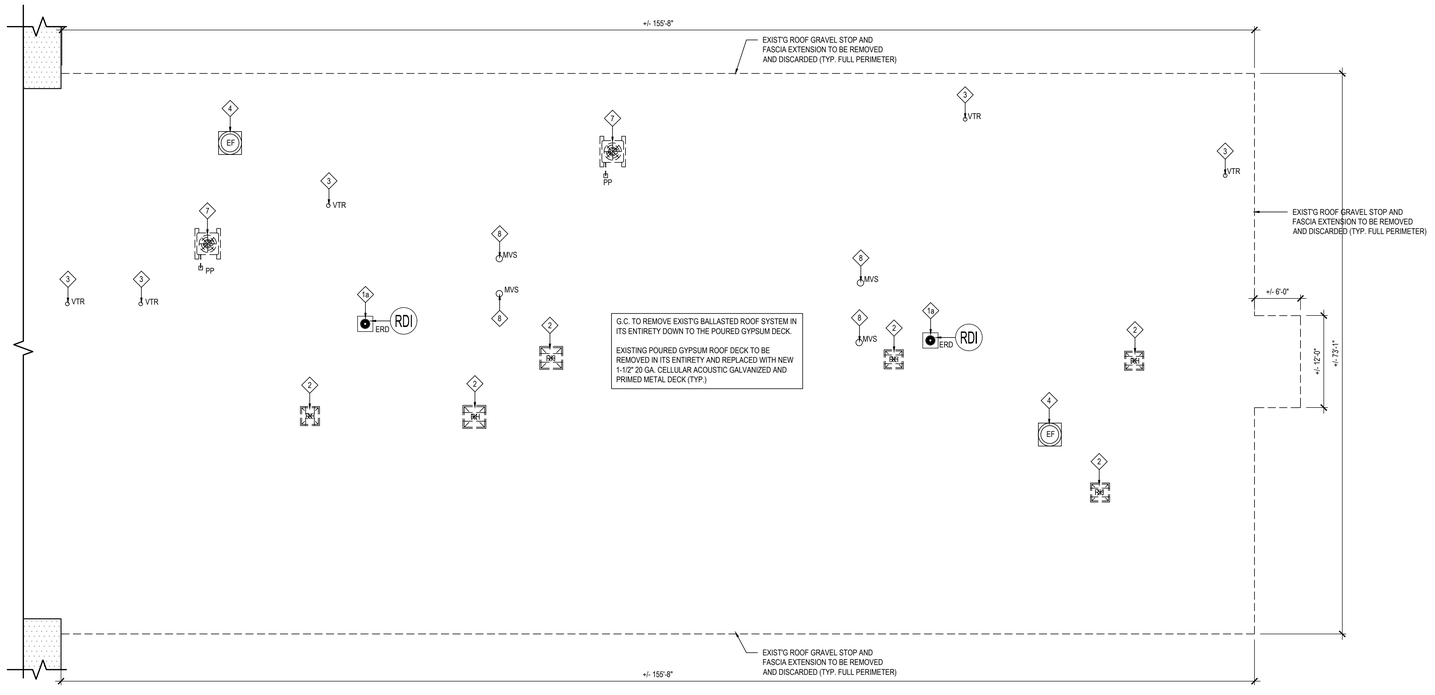
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF DEMOLITION PLAN AREA "A and B"
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.01



AREA "C" - DEMOLITION ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



AREA "D" - DEMOLITION ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF SYMBOL LEGEND

SYMBOL	DESCRIPTION
RTU	EXISTING ROOFTOP HVAC EQUIPMENT
RH	EXISTING RELIEF HOOD EQUIPMENT
A/C	A/C CONDENSER UNIT ON EQUIPMENT RAILS
EF	EXISTING ROOF TOP EXHAUST FAN
	EXISTING ROOFTOP DUCTWORK PENETRATION LOCATIONS
ERD	EXISTING ROOF DRAIN LOCATIONS
VTR	EXISTING PLUMBING VENT THROUGH ROOF LOCATIONS
PP	EXISTING PITCH POCKET LOCATIONS
MVS	EXISTING METAL VENT STACK LOCATIONS
	AREAS WHERE EXISTING THROUGH-WALL FLASHING IS TO BE REMOVED AND RAISED. REFER TO DETAILS
RC #1	ROOF CORE LOCATIONS. REFER TO PROJECT MANUAL INFORMATION AVAILABLE TO BIDDERS
L.P.	LOW POINT OF TAPERED INSULATION
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	INDICATES SLOPE OF TAPERED INSULATION AT ¼" PER FT. U.O.N.
E.J.	INDICATES EXISTING ROOF EXPANSION JOINT LOCATION. G.C. TO REMOVE AND REPLACE AS DETAILED
	INDICATES NEW ROOF WALKWAY PADS

ROOF DEMOLITION WORK KEY NOTES

1. EXISTING ROOF DRAIN LOCATION
1a. EXISTING ROOF DRAIN ASSEMBLIES TO BE REMOVED AND REPLACED WITH NEW ROOF DRAIN ASSEMBLIES BY THE GC. EXISTING INTERNAL ROOF DRAIN PIPING TO REMAIN. GC TO RECONNECT NEW DRAINS TO EXISTING ROOF DRAIN PIPING.
2. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY THE M.C.,THE G.C. TO REMOVE EXISTING ROOF CURB AND INFILL OPENING IN ROOF DECK. REFER TO ROOF DETAILS AND M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. EXISTING PLUMBING VENT THRU ROOF LOCATION
4. EXISTING EXHAUST FAN TO REMAIN. G.C. TO REMOVE EXISTING ROOF CURB AND DISCARD, G.C. TO INSTALL NEW ROOF CURB PROVIDED BY THE M.C., REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. MC TO COORDINATE WITH GC.
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7. MC SHALL DEMO & REMOVE EXISTING ROOFTOP OUTDOOR CONDENSING SPLIT SYSTEM UNIT. GC SHALL REMOVE THE EXISTING THY CURB/RAIL SUPPORTS AND DISCARD. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION
8. EXISTING METAL VENT STACK THRU ROOF LOCATION. VENT STACK TO REMAIN. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

GENERAL DEMOLITION NOTES:

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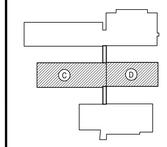
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KEY PLAN — NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

ROOF DEMOLITION PLAN - AREA " C and D "

DWG TITLE

DRAWING BY: PJG
CHECK BY:

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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF DEMOLITION PLAN AREA " C and D"
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.02

HAZARDOUS MATERIALS NOTES

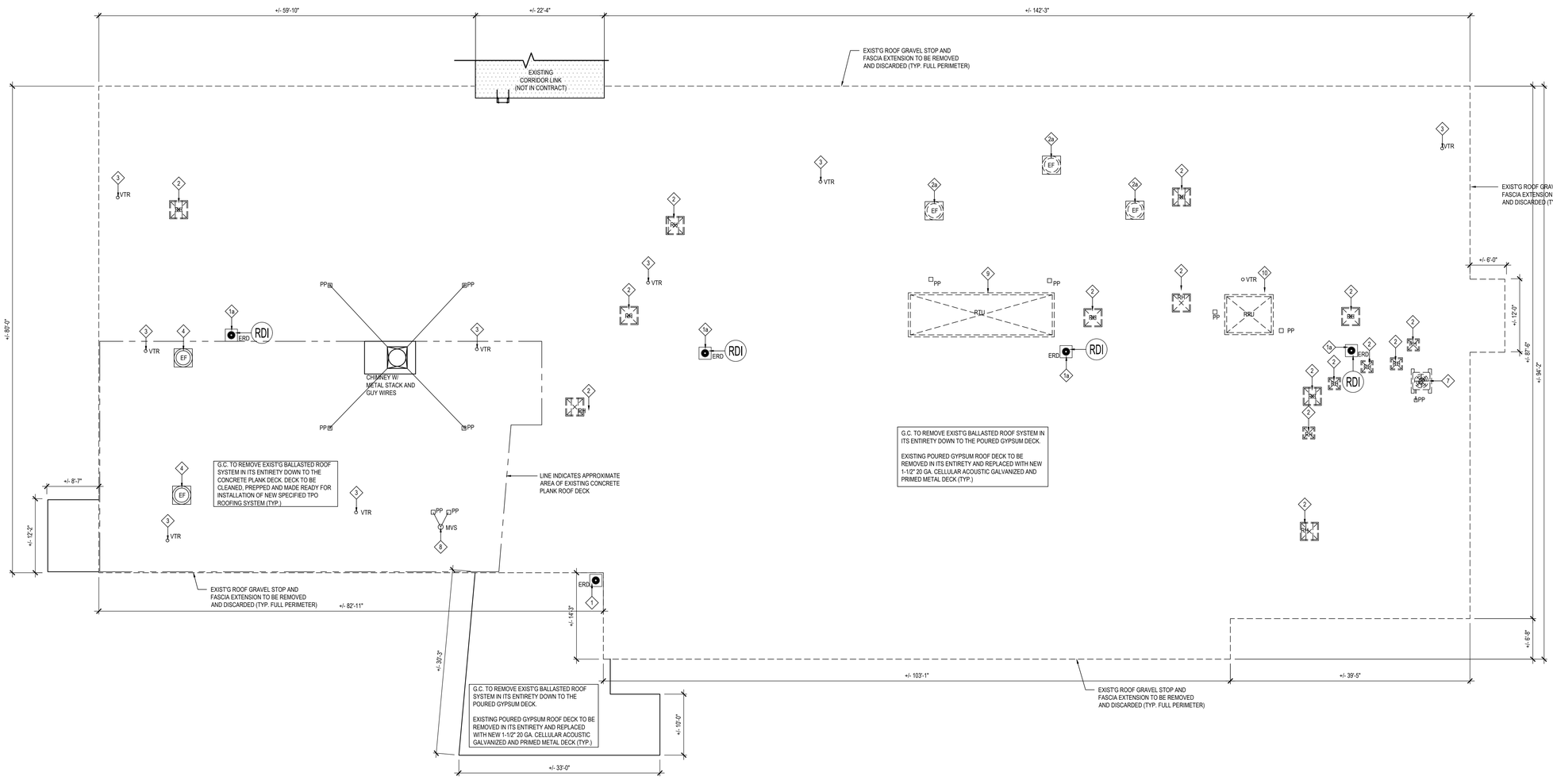
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ROOF SYMBOL LEGEND

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AREAS "E and F" - DEMOLITION ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF DEMOLITION WORK KEY NOTES

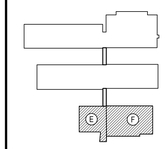
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4. EXISTING MECHANICAL EQUIPMENT TO BE REMOVED BY THE M.C., THE GC TO REMOVE ROOF CURB AND DISCARD. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION
5. EXISTING PLUMBING VENT THRU ROOF LOCATION
6. EXISTING EXHAUST FAN TO REMAIN. G.C. TO REMOVE EXISTING ROOF CURB AND DISCARD, G.C. TO INSTALL NEW ROOF CURB PROVIDED BY THE M.C., REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION. MC TO COORDINATE WITH GC.
7. MC SHALL DEMO & REMOVE EXISTING ROOFTOP DUCTWORK AS SHOWN. MC TO COORDINATE REMOVAL OF DUCT PENTRATION THROUGH ROOF WITH GC. GC TO INFILL OPENING IN ROOF DECK. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
8. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT AS SHOWN. GC REMOVE SUPPORTS FOR UNIT WHICH ARE FLASHED INTO ROOF. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
9. MC SHALL DEMO & REMOVE EXISTING ROOFTOP OUTDOOR CONDENSING SPLIT SYSTEM UNIT. GC SHALL REMOVE THE EXISTING THV CURB/RAIL SUPPORTS AND DISCARD. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION
10. EXISTING METAL VENT STACK THRU ROOF LOCATION. VENT STACK TO REMAIN. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION
11. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT SERVING AUDITORIUM SPACE. GC SHALL REMOVE AND DISCARD ROOF CURB. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION
12. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT SERVING MUSIC ROOM SPACE. GC SHALL REMOVE AND DISCARD ROOF CURB. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

GENERAL DEMOLITION NOTES:
1. GC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. GC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL OR TO REMAIN WITH PROJECT MC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE ROOF DECK OPENINGS THAT ARE TO BE INFILLED BY GC AFTER EQUIPMENT REMOVAL.

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

ROOF DEMOLITION PLAN - AREA " E and F "

DWG TITLE

DRAWING BY: PJG
CHECK BY:

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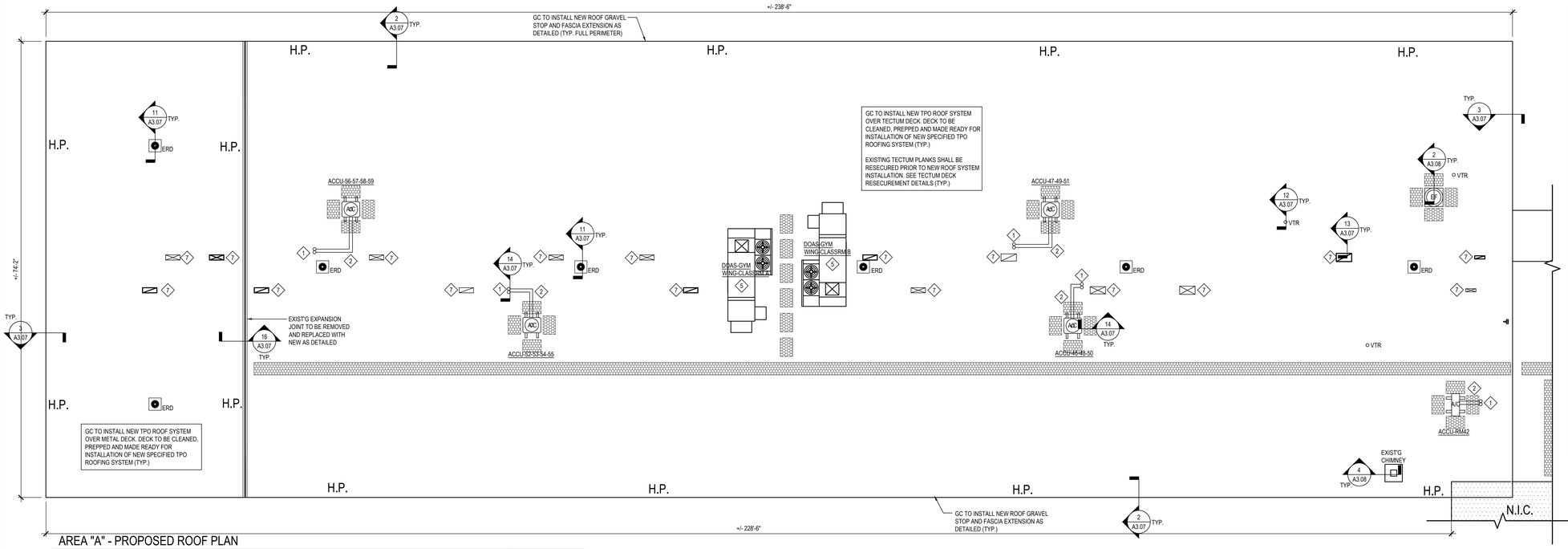
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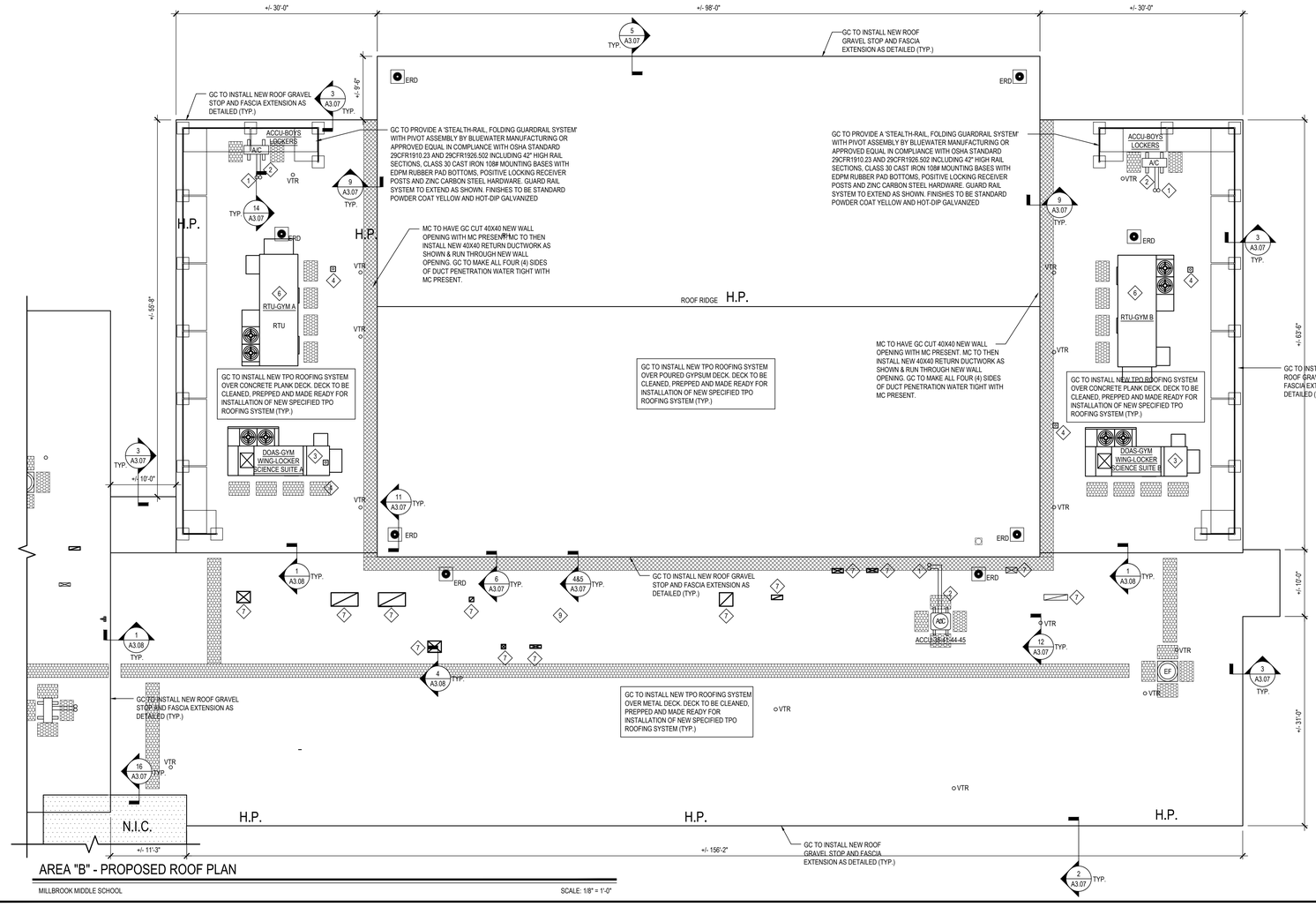
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF DEMOLITION PLAN AREA " E and F "
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.03



AREA "A" - PROPOSED ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



AREA "B" - PROPOSED ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF SYMBOL LEGEND

SYMBOL	DESCRIPTION
RTU	EXISTING ROOFTOOP HVAC EQUIPMENT
RH	EXISTING RELIEF HOOD EQUIPMENT
A/C	A/C CONDENSER UNIT ON EQUIPMENT RAILS
EF	EXISTING ROOF TOP EXHAUST FAN
	EXISTING ROOFTOP DUCTWORK PENETRATION LOCATIONS
ERD	EXISTING ROOF DRAIN LOCATIONS
VTR	EXISTING PLUMBING VENT THROUGH ROOF LOCATIONS
PP	EXISTING PITCH POCKET LOCATIONS
MVS	EXISTING METAL VENT STACK LOCATIONS
	AREAS WHERE EXISTING THROUGH-WALL FLASHING IS TO BE REMOVED AND RAISED. REFER TO DETAILS
RC #1	ROOF CORE LOCATIONS. REFER TO ROOF COMPOSITION NOTES
L.P.	LOW POINT OF TAPERED INSULATION
H.P.	HIGH POINT OF TAPERED INSULATION
	INDICATES SLOPE OF TAPERED INSULATION AT ¼" PER FT. U.O.N.
E.J.	INDICATES EXISTING ROOF EXPANSION JOINT LOCATION. G.C. TO REMOVE AND REPLACE AS DETAILED
	INDICATES NEW ROOF WALKWAY PADS

WIND DESIGN DATA:

DESIGN CRITERIA		REFERENCE
ULTIMATE WIND SPEED	130 MPH	ASCE 7-16 FIG. 26.5-1C IBC 1609.3(2)
RISK CATEGORY	III	ASCE 7-16 TABLE 1.5-1 IBC TABLE 1604.5
WIND EXPOSURE	CATEGORY B	ASCE 7-16 SECTION 26.7.3 IBC 1609.4.3
INTERNAL PRESSURE COEFFICIENT	GCpi= .0.18 ENCLOSED	ASCE 7-16 TABLE 26.13-1
COMPONENTS AND CLADDING ZONES 1-3: ROOF PROJECTS ZONES 4-5: WINDOW PROJECTS	ZONE 1 = +30/ -51 PSF 2 = +30/ -82 PSF 3 = +30/ -123 PSF 4 = +41/ -52 PSF 5 = +41/ -66 PSF	ASCE 7-16 FIGURE 30.4-1 EQUATION 30.4-1 (STRUCTURES LESS THAN 60ft. HIGH) ASCE 7-16 FIGURE 30.6-1 EQUATION 30.6-1 (STRUCTURES 60ft. AND HIGHER)

NEW WORK ROOF PLAN KEY NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONDENSATE PIPE PORTAL GC TO CUT NEW OPENINGS IN ROOF DECK FOR THE MC. MC TO BE PRESENT. GC TO COORDINATE WORK WITH MC. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN ONTO NEW STEEL DUNNAGE. REFER TO DRAWING A3.12 AND TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
6. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
7. GC TO CUT NEW OPENINGS IN ROOF DECK FOR THE MC DUCTWORK DROPS. MC TO BE PRESENT. GC TO COORDINATE WORK WITH MC. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES:
1. GC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED..
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.

ENERGY CODE DESIGN CRITERIA

2025 E.C.C.C. OF NYS	CLIMATE ZONE	INSULATION COMPONENT	R-VALUE	REFERENCE
SECTION C301 CLIMATE ZONES	ZONE 5 (DUTCHESS COUNTY)			TABLE C301.1
SECTION C402 BUILDING ENVELOPE REQUIREMENTS	ZONE 5	ROOFS - INSUL. ENTIRELY ABOVE ROOF DECK.	R-33ci	TABLE C402.1.3

TAPERED INSULATION NOTES

1. ROOF CONTRACTOR SHALL PROVIDE A TAPERED INSULATION PLAN FOR ALL ROOF AREAS IN CONTRACT
2. ROOF CONTRACTOR SHALL FIELD VERIFY ROOF DIMENSIONS AND ROOF DRAIN LOCATIONS
3. TAPERED INSULATION LAYOUT SHALL CONFORM TO LATEST REQUIREMENTS OF THE N.Y.S ENERGY CODE, MINIMUM PITCH OF 1/8" PER FOOT
4. TAPERED INSULATION PLAN SHALL SHOW ALL ROOF PITCHES AND CRICKETS AS REQUIRED TO FACILITATE POSITIVE DRAINAGE
5. ROOF INSULATION TO BE A MIN. THICKNESS OF 5.5" AND R - 33 (CONTINUOUS INSULATION) AS PER THE 2025 ENERGY CONSERVATION CONSTRUCTION CODE. ROOF INSULATION SHALL BE A MINIMUM OF 1" THICKNESS AT ROOF DRAINS (TYP.)

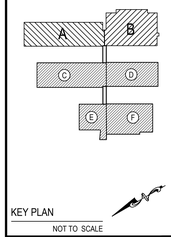
WOOD BLOCKING & PERIMETER EDGE NOTES

1. CONTRACTOR IS TO BE ADVISED THAT IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXTENT OF WOOD BLOCKING REQUIRED FOR ALL PERIMETER GRAVEL STOPS, MECHANICAL CURBS, EXPANSION JOINTS, ETC. IN ACCORDANCE WITH THE TAPERED INSULATION LAYOUTS INCLUDED IN THESE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS.
2. THE DETAILS SHOWN MAY NOT DEPICT THE REQUIRED HEIGHT OF BLOCKING REQUIRED AND REPRESENT THE INTENT OF THE DETAIL AT THIS CONDITION.
3. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN THE HEIGHT OF THE TOP OF GRAVEL STOP AT EACH ROOF ELEVATION AND MAKE THE NECESSARY MODIFICATIONS AT THE EDGE CONDITIONS TO MEET THE TAPERED ELEVATION HEIGHTS IN ACCORDANCE WITH THE ROOF MANUFACTURERS REQUIREMENTS.
4. THE CONTRACTOR IS RESPONSIBLE TO MODIFY THE HEIGHTS OF ALL BREAK METAL FASCIAS & FASCIA EXTENDERS AS REQUIRED TO CONFORM TO THE INTENT OF THE DETAILS SHOWN AND THE CONDITIONS AS THEY CURRENTLY EXIST.
5. PROVIDE APPROPRIATE BLOCKING FASTENERS AS REQUIRED. TO SECURE BLOCKING TO EXIST. ROOF DECK IN ACCORDANCE W/ MANUFACTURER'S ROOF SYSTEM REQUIREMENTS FOR COMPLIANCE W/ ASCE 7-05. CONTRACTOR SHALL PROVIDE ENGINEER CERTIFICATION FOR ANCHORING METHOD IN ACCORDANCE WITH SPEC. SECTION 07528

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

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CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF PROPOSED PLAN - AREAS " A and B "

DRAWING BY: PJG
CHECK BY: JBR

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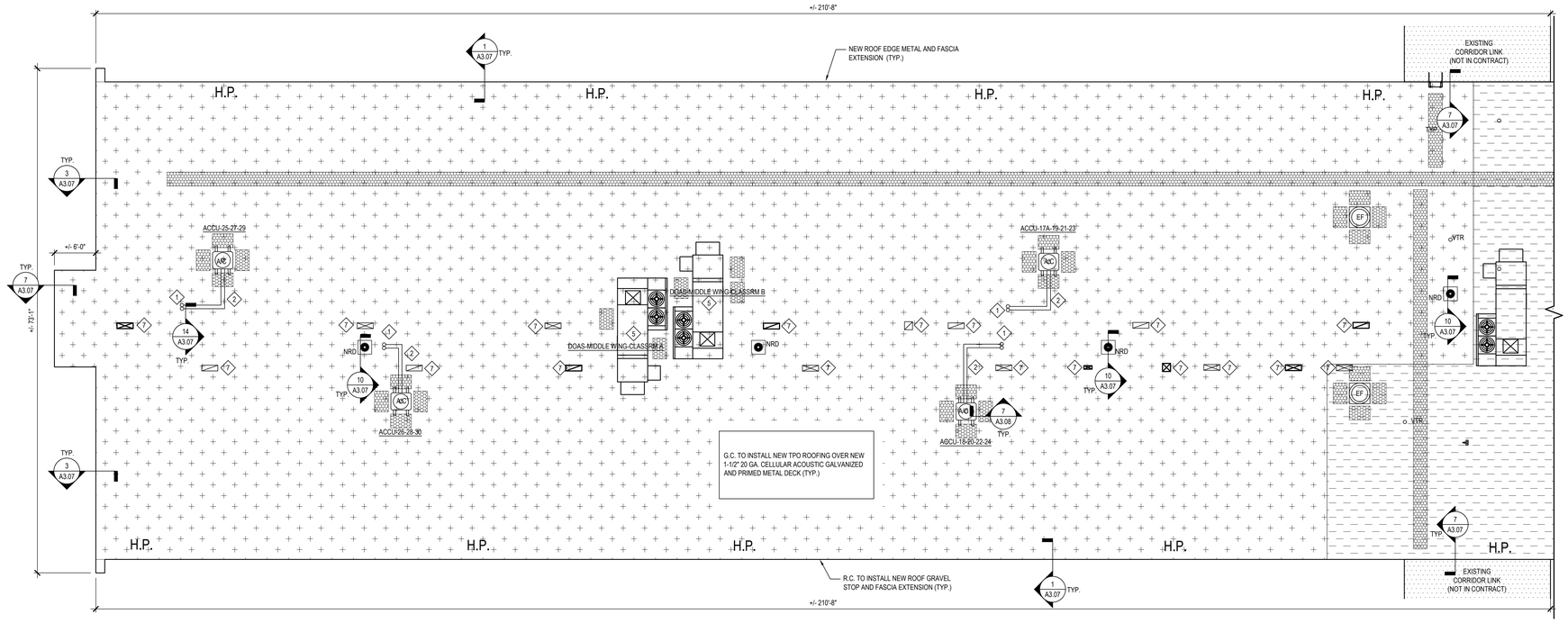
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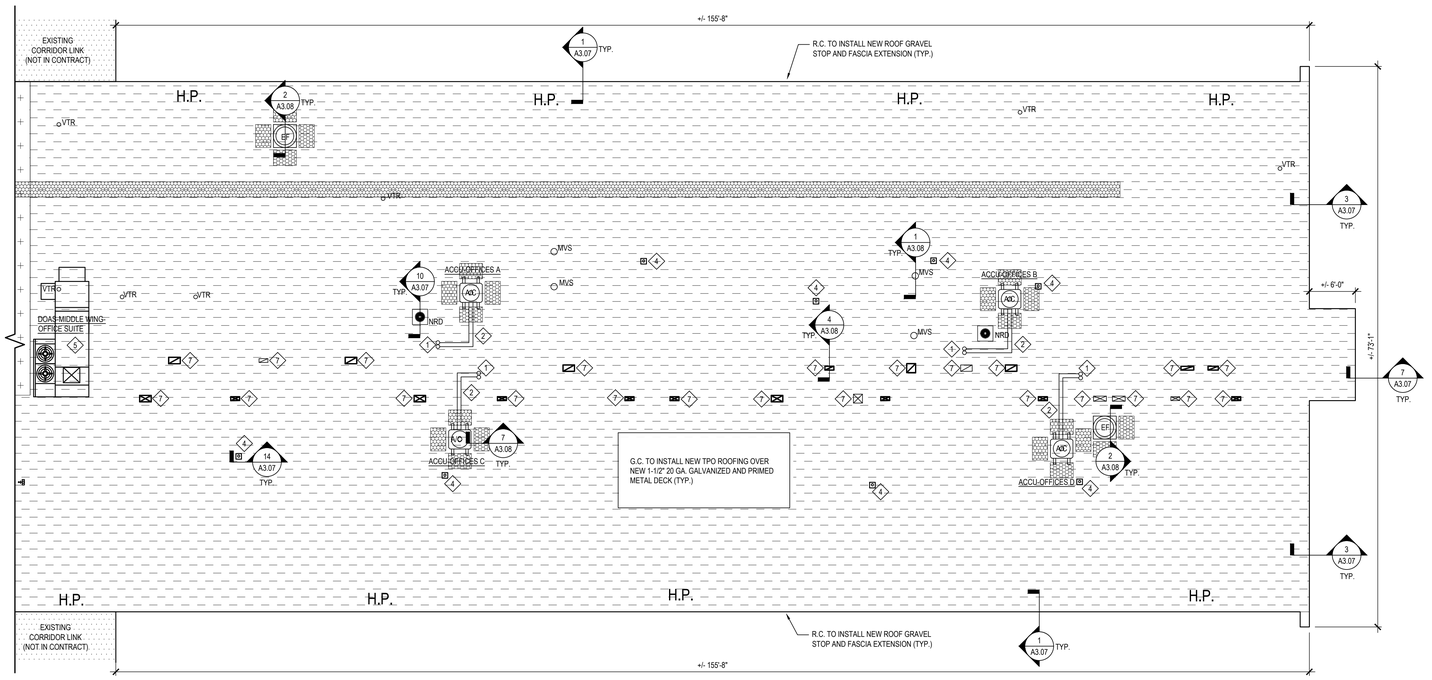
SED No:	13-22-01-04-0-008-017
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A3.04



AREA "C" - PROPOSED ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



AREA "D" - PROPOSED ROOF PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF SYMBOL LEGEND

SYMBOL	DESCRIPTION
RTU	EXISTING ROOFTOOP HVAC EQUIPMENT
RH	EXISTING RELIEF HOOD EQUIPMENT
A/C	A/C CONDENSER UNIT ON EQUIPMENT RAILS
EF	EXISTING ROOF TOP EXHAUST FAN
	EXISTING ROOFTOP DUCTWORK PENETRATION LOCATIONS
ERD	EXISTING ROOF DRAIN LOCATIONS
VTR	EXISTING PLUMBING VENT THROUGH ROOF LOCATIONS
PP	EXISTING PITCH POCKET LOCATIONS
MVS	EXISTING METAL VENT STACK LOCATIONS
	AREAS WHERE EXISTING THROUGH-WALL FLASHING IS TO BE REMOVED AND RAISED. REFER TO DETAILS
RC #1	ROOF CORE LOCATIONS. REFER TO ROOF COMPOSITION NOTES
L.P.	LOW POINT OF TAPERED INSULATION
H.P.	HIGH POINT OF TAPERED INSULATION
	INDICATES SLOPE OF TAPERED INSULATION AT ¼" PER FT. U.O.N.
E.J.	INDICATES EXISTING ROOF EXPANSION JOINT LOCATION. G.C. TO REMOVE AND REPLACE AS DETAILED
	INDICATES NEW ROOF WALKWAY PADS

NEW WORK ROOF PLAN KEY NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
3. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONDENSATE PIPE PORTAL GC TO CUT NEW OPENINGS IN ROOF DECK FOR THE MC. MC TO BE PRESENT. GC TO COORDINATE WORK WITH MC. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN ONTO NEW STEEL DUNNAGE. REFER TO DRAWING A3.12 AND TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
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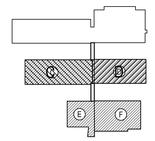
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2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.

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CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF PROPOSED PLAN - AREA " C and D "

DRAWING BY: PJG
CHECK BY:

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ROOF SYMBOL LEGEND

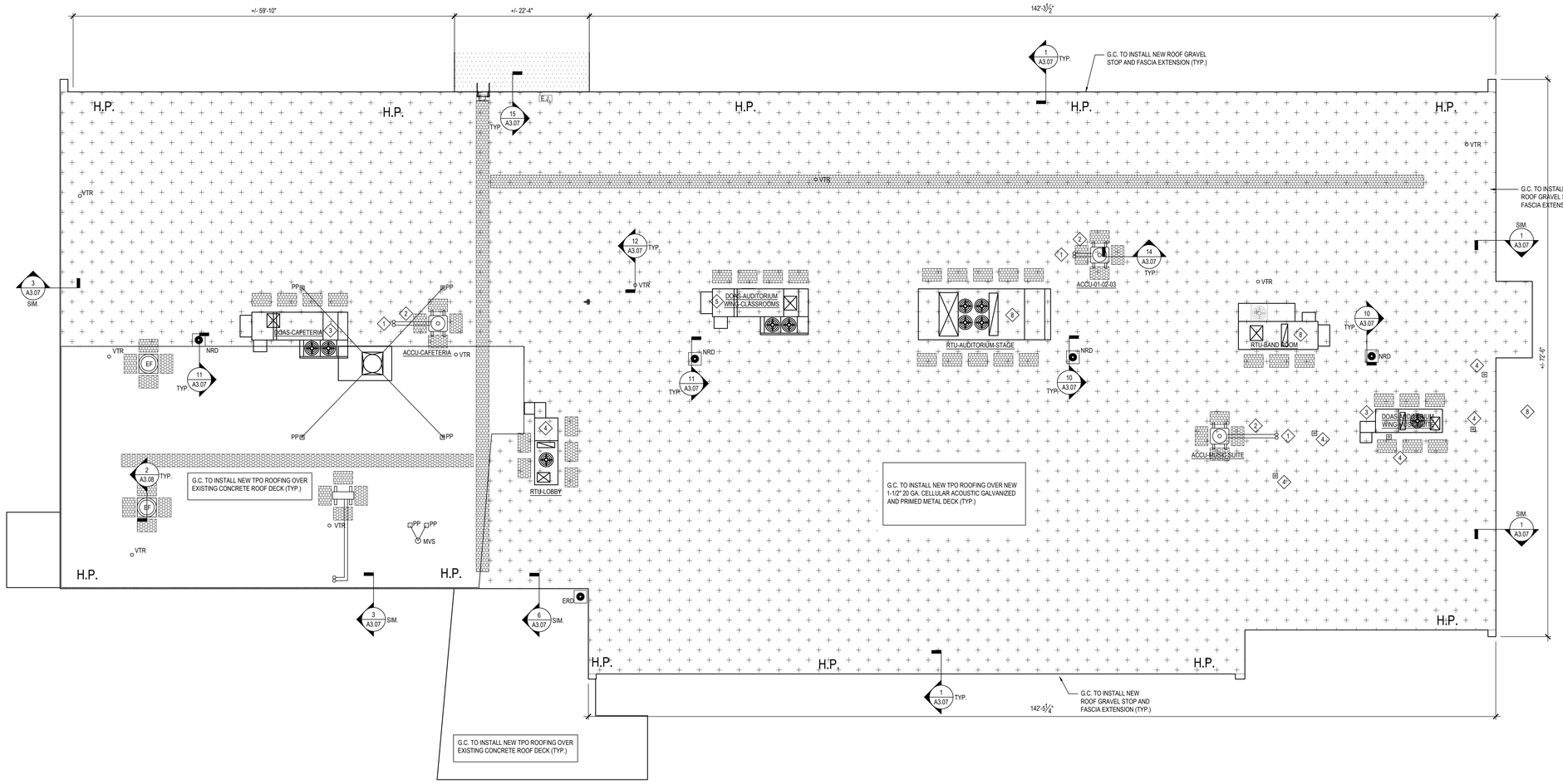
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NEW WORK ROOF PLAN KEY NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
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4. CONDENSATE PIPE PORTAL GC TO CUT NEW OPENINGS IN ROOF DECK FOR THE MC. MC TO BE PRESENT. GC TO COORDINATE WORK WITH MC. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN ONTO NEW STEEL DUNNAGE. REFER TO DRAWING A3.12 AND M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
6. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
7. GC TO CUT NEW OPENINGS IN ROOF DECK FOR THE MC DUCTWORK DROPS. MC TO BE PRESENT. GC TO COORDINATE WORK WITH MC. REFER TO M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
8. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MOUNTED ON STEEL DUNNAGE. REFER TO DRAWING A3.12 AND M-SERIES DRAWINGS FOR ADDITIONAL INFORMATION

GENERAL DEMOLITION NOTES:

1. GC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.



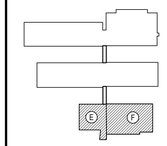
AREAS "E" & "F" - ROOF PROPOSED PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

ROOF PROPOSED PLAN - AREA " E and F "

PROJECT

DWG TITLE

DRAWING BY: PJG

CHECK BY:

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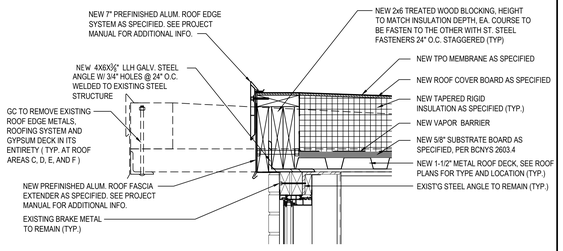
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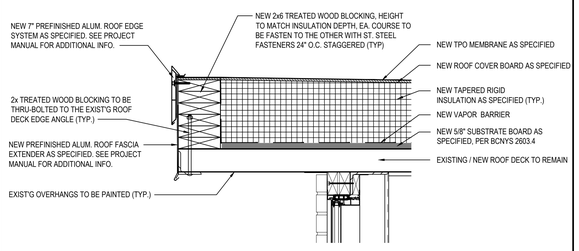
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF PROPOSED PLAN AREA " E and F "
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.06



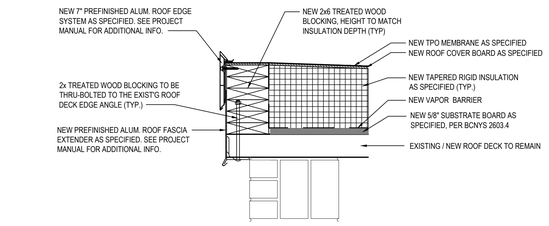
1 ROOF EDGE DETAIL

ROOF AREAS - C, D, E, F, SCALE: N.T.S.



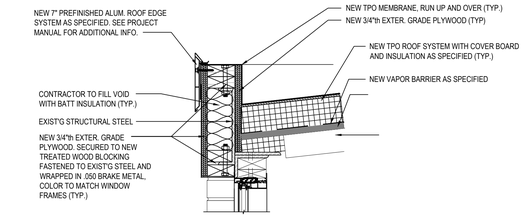
2 ROOF EDGE DETAIL

SCALE: N.T.S.



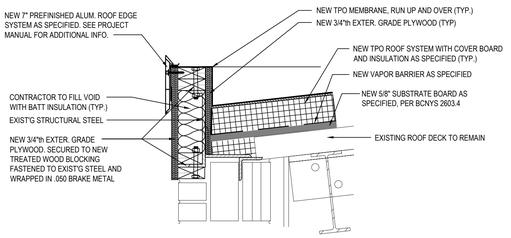
3 ROOF EDGE DETAIL

SCALE: N.T.S.



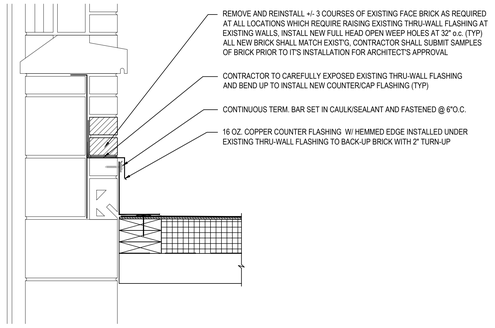
4 ROOF EDGE DETAIL

at GYMNASIUM SCALE: N.T.S.



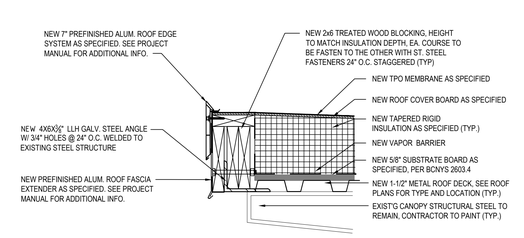
5 ROOF EDGE DETAIL

AT GYMNASIUM SCALE: N.T.S.



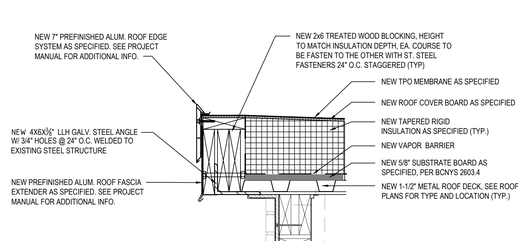
6 ROOF EDGE DETAIL

AT GYMNASIUM SCALE: N.T.S.



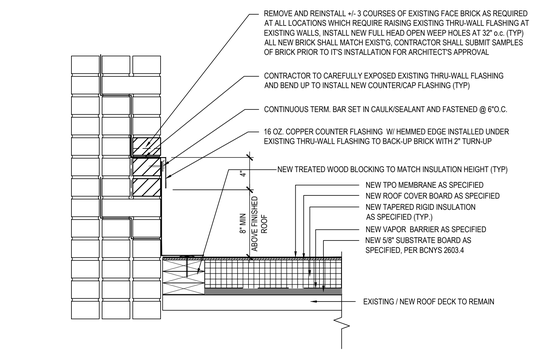
7 ROOF EDGE DETAIL

AT ENTRY CANOPY SCALE: N.T.S.



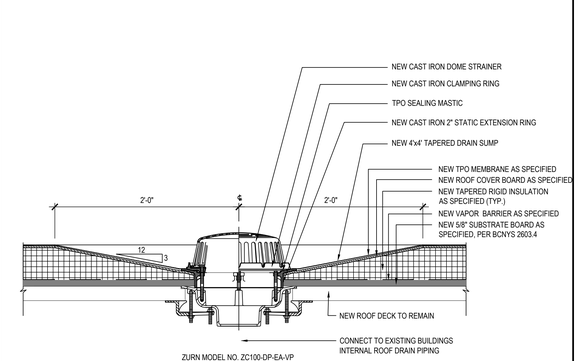
8 ROOF EDGE DETAIL

AT MUSIC ROOM SCALE: N.T.S.



9 THRU-WALL FLASHING DETAIL

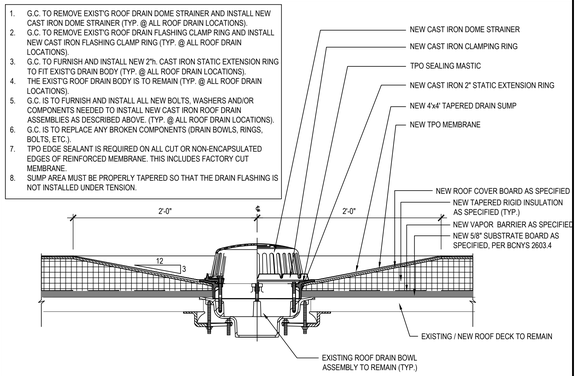
SCALE: N.T.S.



10 NEW ROOF DRAIN DETAIL

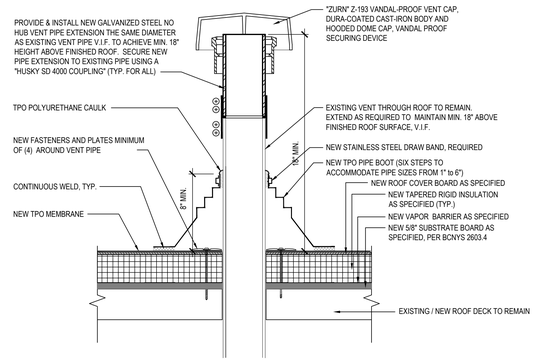
NOTE: FOR NEW DRAINS IN ROOF AREAS " C, D, E, and F " SCALE: N.T.S.

1. G.C. TO REMOVE EXIST'G ROOF DRAIN DOME STRAINER AND INSTALL NEW CAST IRON DOME STRAINER (TYP. @ ALL ROOF DRAIN LOCATIONS).
2. G.C. TO REMOVE EXIST'G ROOF DRAIN FLASHING CLAMP RING AND INSTALL NEW CAST IRON FLASHING CLAMP RING (TYP. @ ALL ROOF DRAIN LOCATIONS).
3. G.C. TO FURNISH AND INSTALL NEW 2"h. CAST IRON STATIC EXTENSION RING TO FIT EXIST'G DRAIN BODY (TYP. @ ALL ROOF DRAIN LOCATIONS).
4. THE EXIST'G ROOF DRAIN BODY IS TO REMAIN (TYP. @ ALL ROOF DRAIN LOCATIONS).
5. G.C. IS TO FURNISH AND INSTALL ALL NEW BOLTS, WASHERS AND/OR COMPONENTS NEEDED TO INSTALL NEW CAST IRON ROOF DRAIN ASSEMBLIES AS DESCRIBED ABOVE. (TYP. @ ALL ROOF DRAIN LOCATIONS).
6. G.C. IS TO REPLACE ANY BROKEN COMPONENTS (DRAIN BOWLS, RINGS, BOLTS, ETC.).
7. TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.
8. SUMP AREA MUST BE PROPERLY TAPERED SO THAT THE DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.



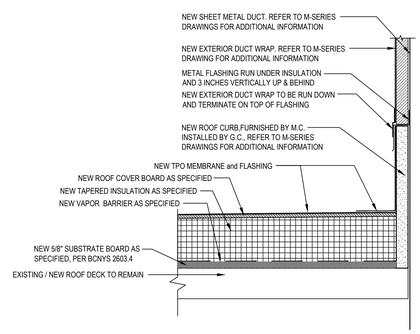
11 EXISTING ROOF DRAIN DETAIL

SCALE: N.T.S.



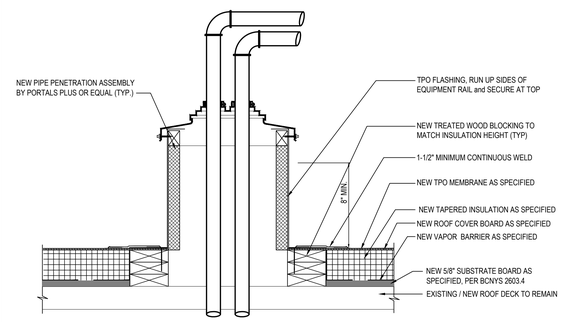
12 VENT PIPING DETAIL

SCALE: N.T.S.



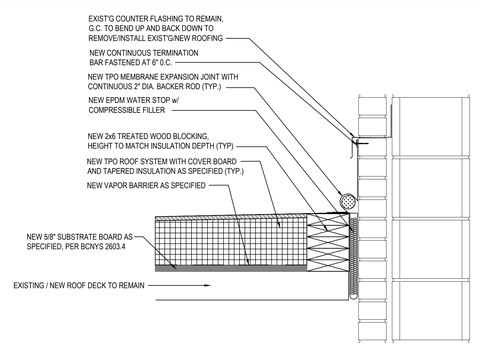
13 NEW HVAC DUCT PENETRATION / CURB DETAIL

SCALE: N.T.S.



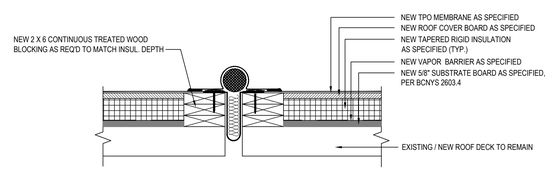
14 PIPE PORTAL DETAIL

SCALE: N.T.S.



15 CORRIDOR LINK EXPANSION JOINT

NOTE: SCALE: NTS



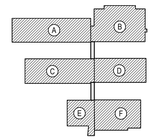
16 EXPANSION JOINT DETAIL

SCALE: N.T.S.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

ROOF DETAILS

PROJECT

DWG TITLE

DRAWING BY: PJG

CHECK BY:

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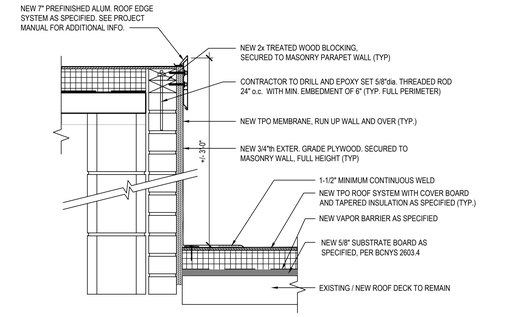
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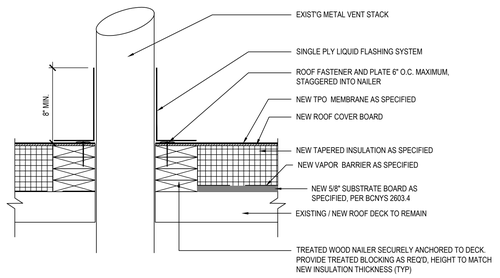
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF DETAILS
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

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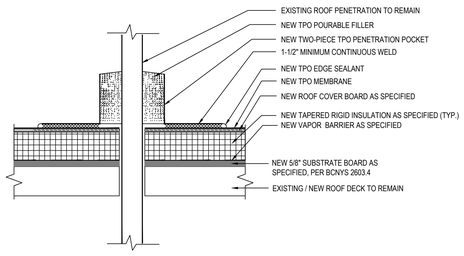
1 LOW TO HIGH ROOF DETAIL

SCALE: N.T.S.



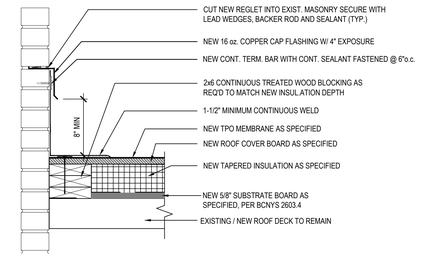
2 METAL VENT STACK DETAIL

SCALE: N.T.S.



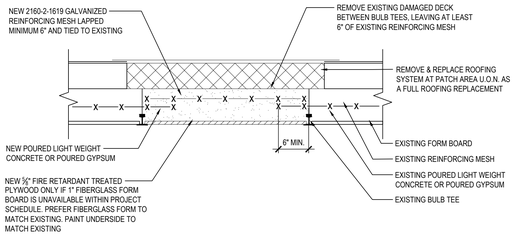
3 PITCH POCKET DETAIL

SCALE: N.T.S.



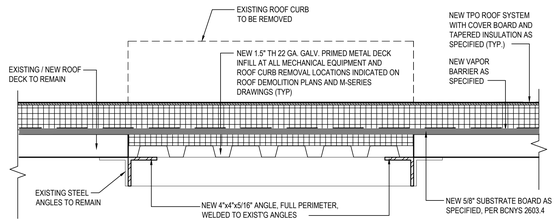
4 CUT-IN REGLET DETAIL @ CHIMNEY

SCALE: N.T.S.



5 POURED GYPSUM/LWC DECK PATCH DETAIL

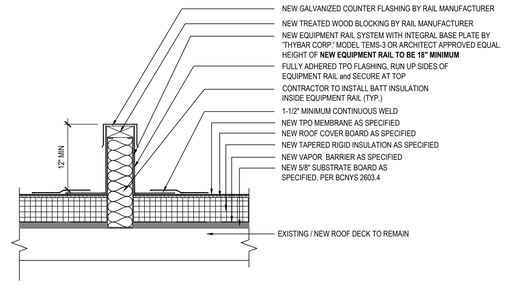
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6 ROOF DECK CLOSURE DETAIL

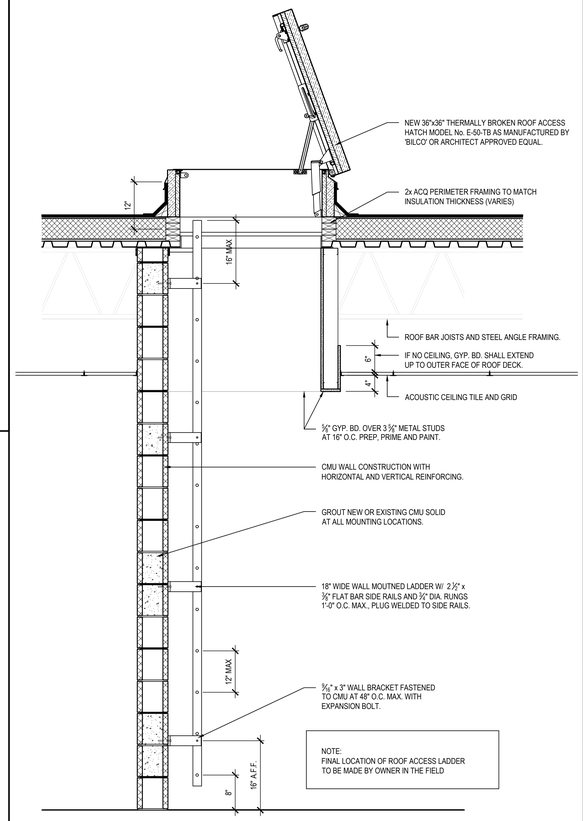
NOTE: FOR METAL, TECTUM, CONCRETE PLANK DECK AREAS

SCALE: N.T.S.



7 EQUIPMENT RAIL DETAIL

SCALE: N.T.S.

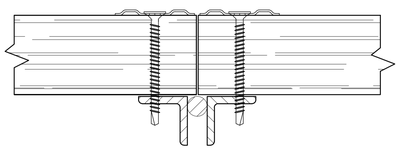


8 SECTION DETAIL AT ROOF ACCESS LADDER

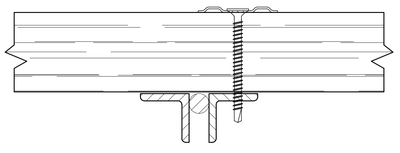
SCALE: 3/4" = 1'-0"

TECTUM ROOF DECK REFASTENING NOTE:

AFTER EXISTING ROOFING MEMBRANE & INSULATION HAS BEEN REMOVED DOWN TO EXISTING TECTUM DECK, ROOFING CONTRACTOR SHALL BE RESPONSIBLE TO REFASTEN EXISTING TECTUM DECKING PLANKS TO EXISTING ROOF JOISTS, BEAMS, ETC., USING FASTENERS AND FASTENING PATTERNS AS DESCRIBED IN THESE DETAILS. SEE SPECIFICATIONS FOR ADD'L INFO.



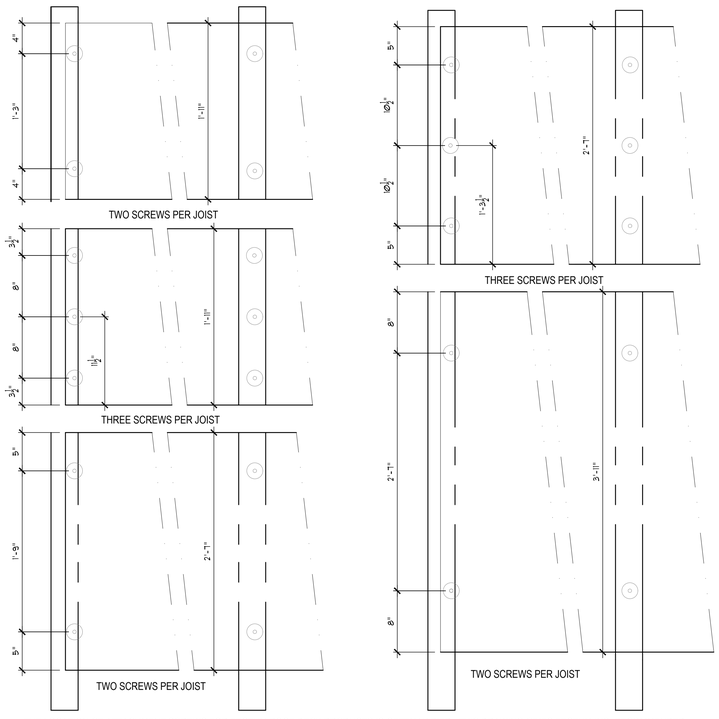
TECTUM I DECK USES EITHER DEKFAST 14 SCREWS OR S-25 SELF-DRILLING SCREWS. A 2" DIAMETER WASHER IS REQUIRED.



ONE ROW OF SCREWS IS REQUIRED AT INTERMEDIATE SUPPORTS.

TECTUM DECK OVER STEEL

NOT TO SCALE



FOR USE WITH ALL TECTUM SCREW AND WASHER ASSEMBLIES FOR TECTUM I, III, E, AND NS PLANK AND WAFERHEAD SCREWS FOR TECTUM III, E, AND NS PLANK.

THE LOCATION OF ATTACHMENT SCREWS FOR TECTUM ROOF DECK PRODUCTS IS OFTEN VARIED. THIS DRAWING GIVES TECTUM INC. RECOMMENDED LOCATIONS. IT SHOULD BE NOTED THAT THE SCREWS ARE NOT PLACED AT THE EDGE OF THE PANELS BUT ARE SPACED IN FROM THE EDGE DEPENDING ON THE WIDTH OF THE PANELS AND THE NUMBER OF SCREWS PER JOIST. SPECIAL APPLICATIONS MAY REQUIRE SOME MODIFICATION OF THE SPACING SHOWN.

STANDARD SCREW SPACING FOR TECTUM PLANK SYSTEMS

NOT TO SCALE

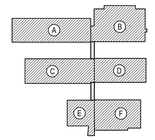
TECTUM DECK RESECUREMENT DETAILS

SCALE: N.T.S.

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

ROOF DETAILS

DWG TITLE

DRAWING BY: PJG

CHECK BY:

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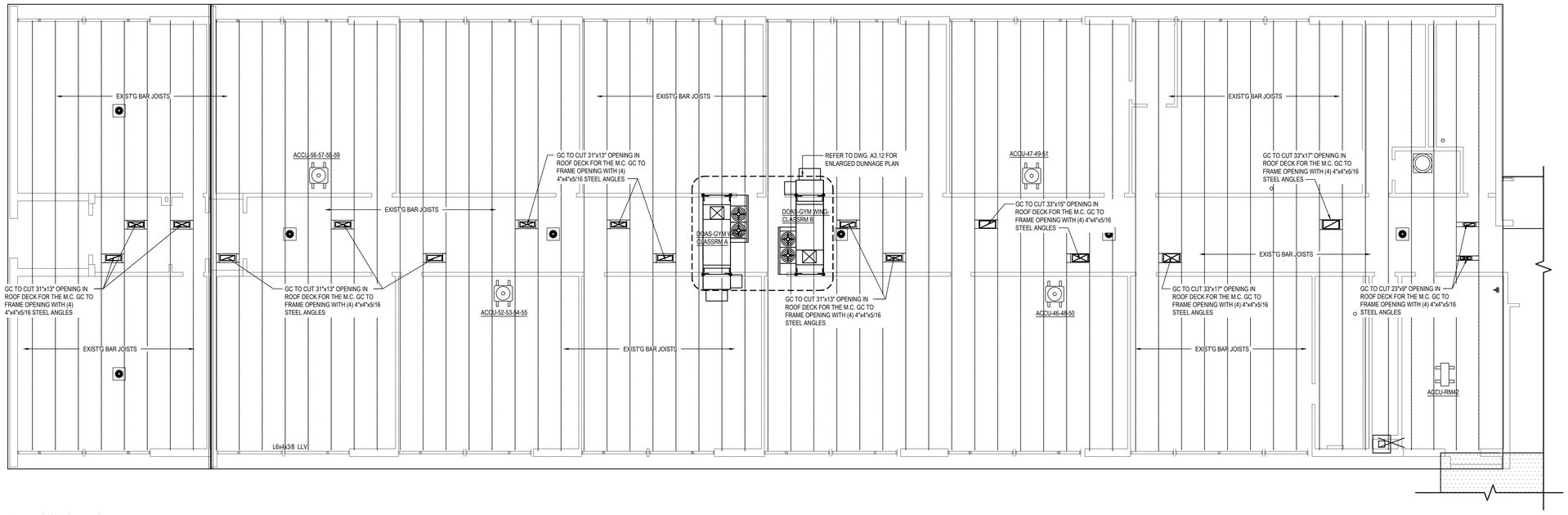
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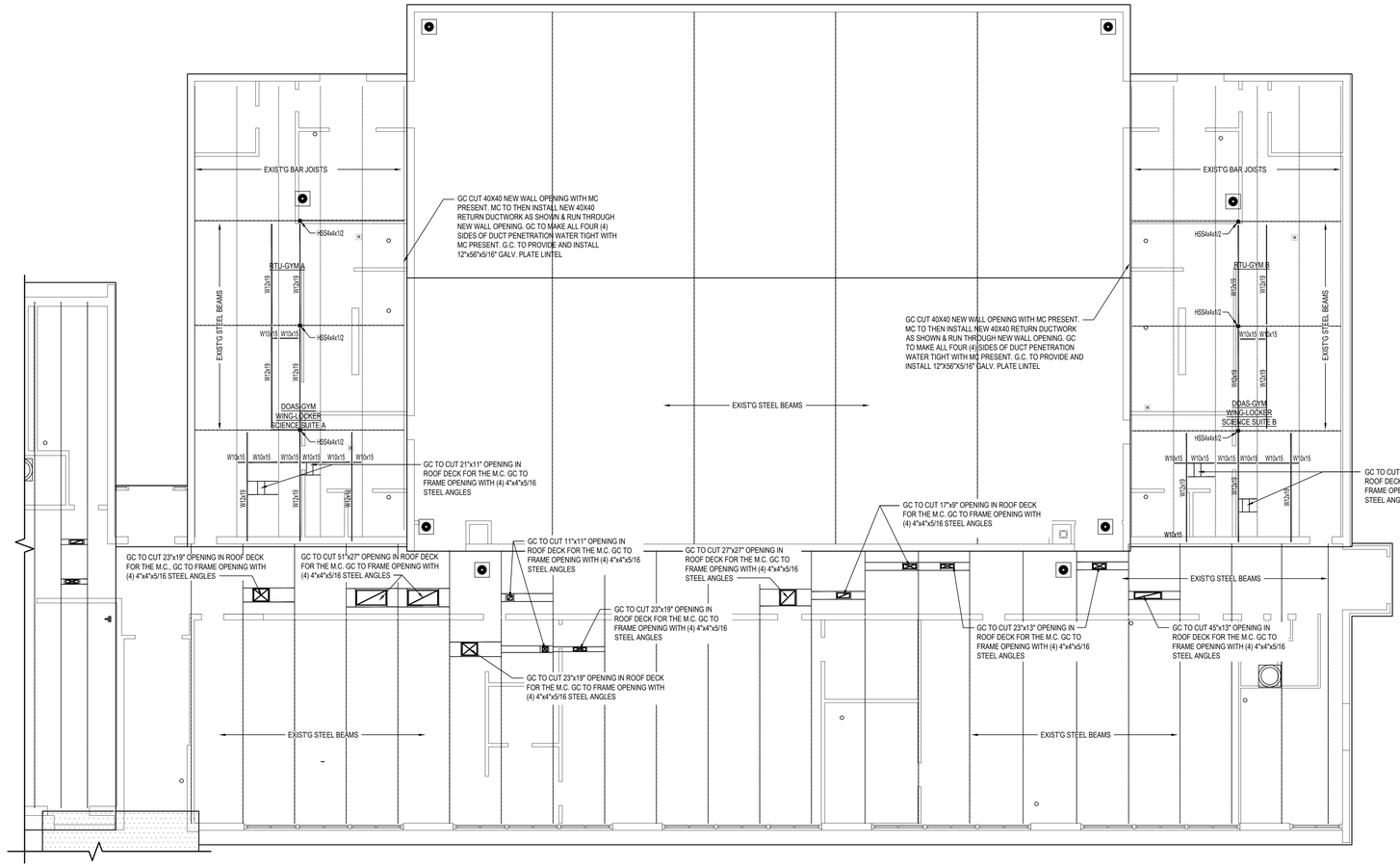
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF DETAILS
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FILE No:	25-273A

A3.08



AREA "A" - ROOF STRUCTURAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



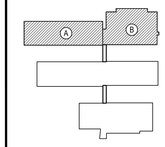
AREA "B" - ROOF STRUCTURAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF STRUCTURAL PLAN - AREAS " A and B "

DRAWING BY: PJG
CHECK BY: JBR

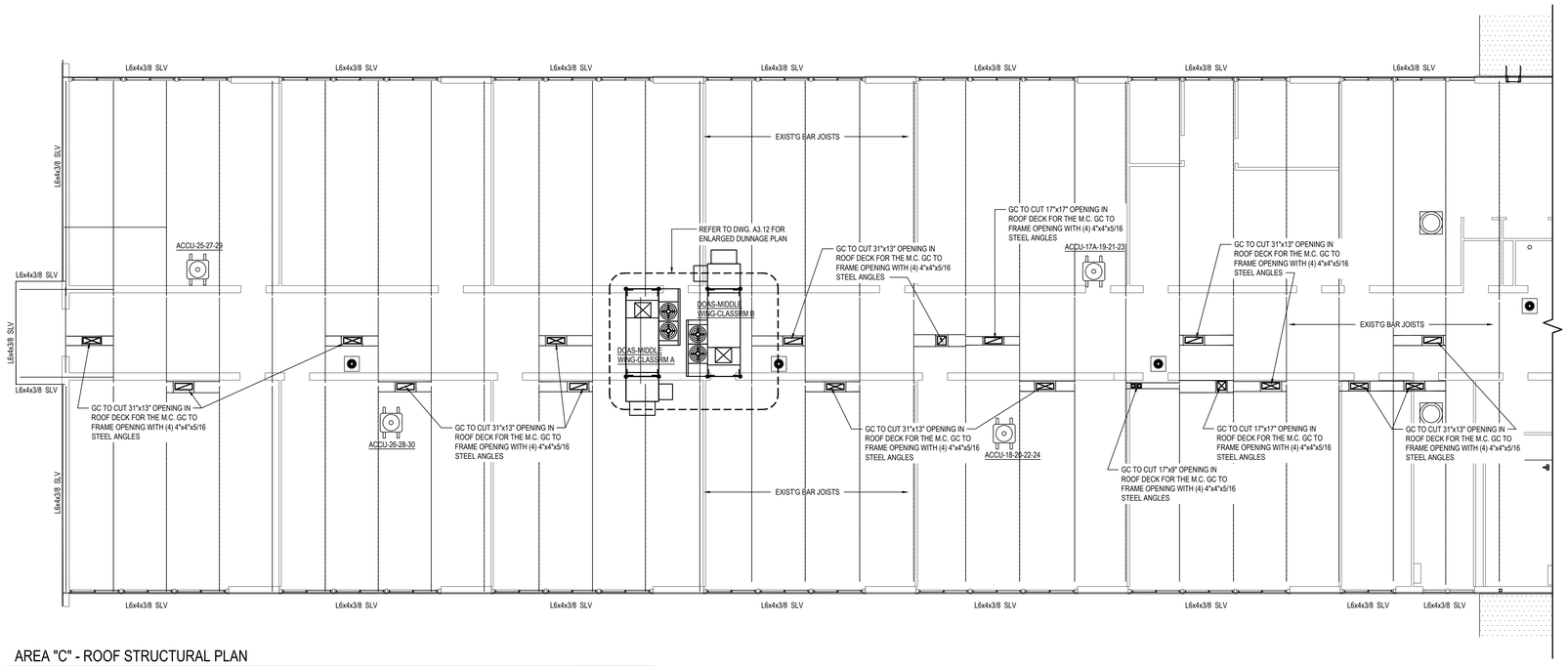
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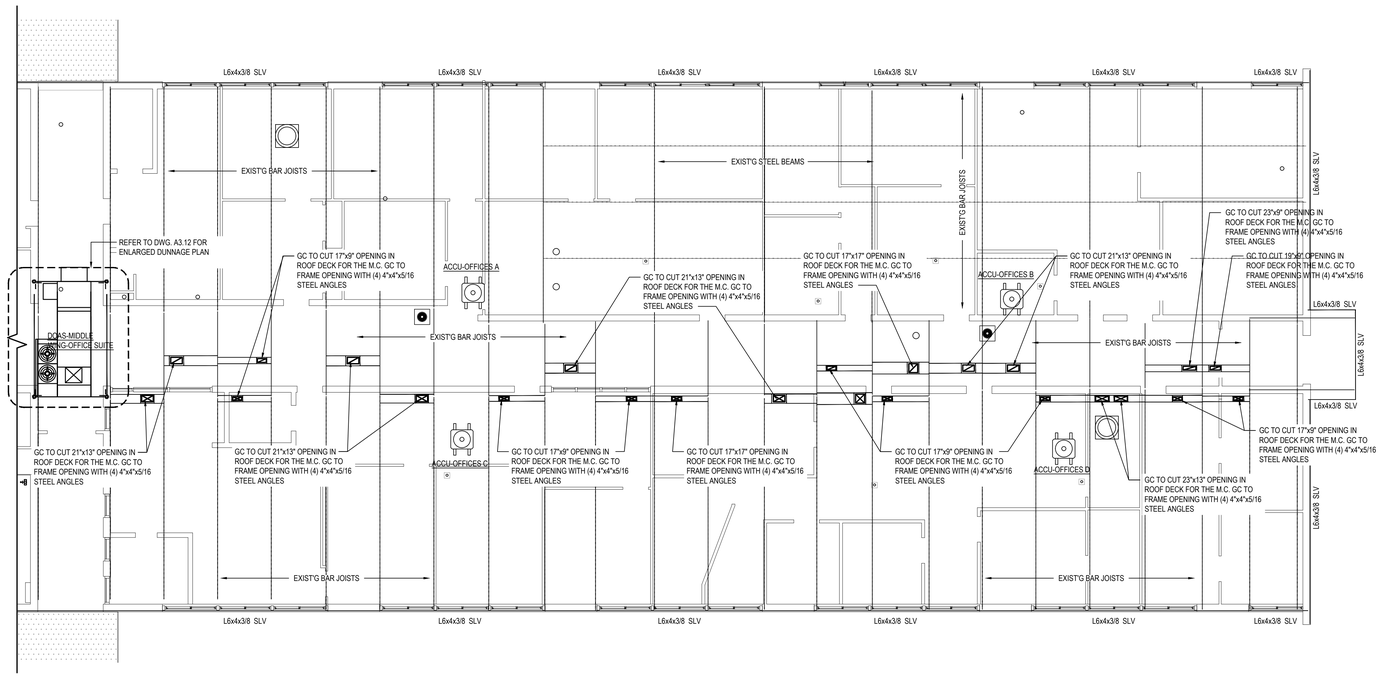
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF STRUCTURAL PLAN AREAS " A and B "
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.09



AREA "C" - ROOF STRUCTURAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"



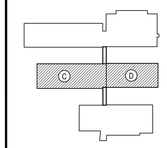
AREA "D" - ROOF STRUCTURAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF STUCTURAL PLAN - AREA " C and D "

DRAWING BY: PJG

CHECK BY:

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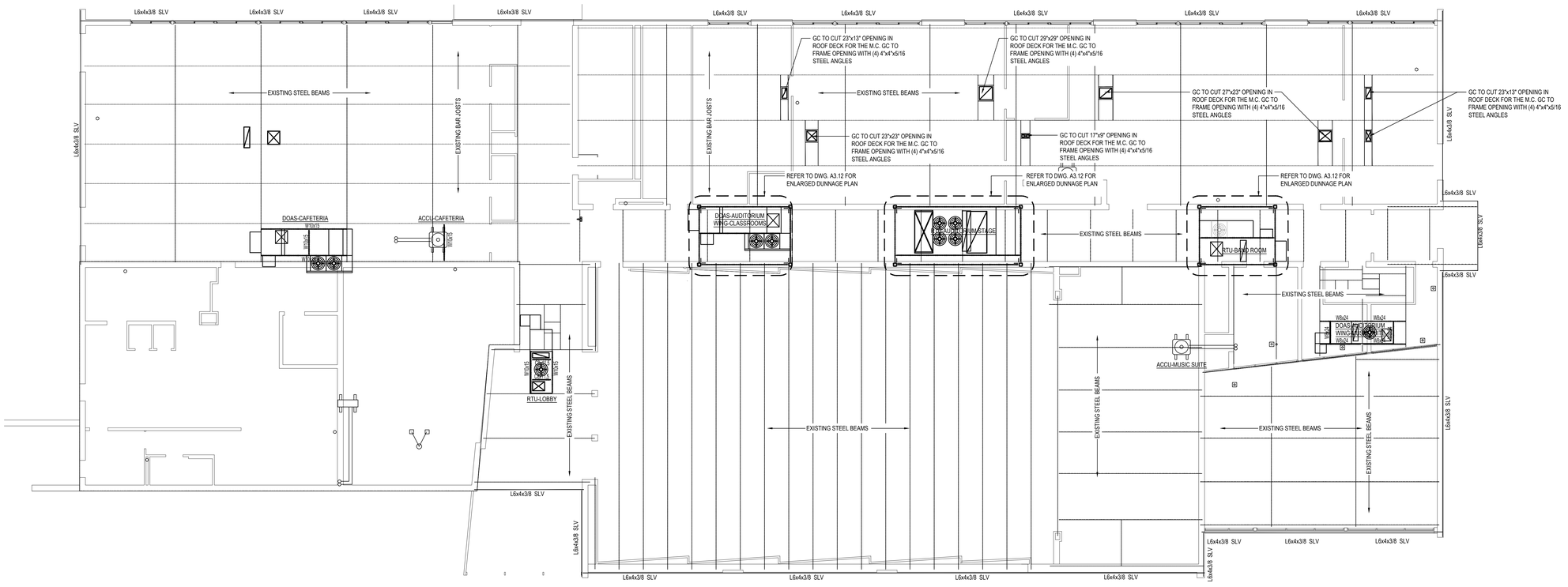
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF STRUCTURAL PLAN AREAS " C and D "
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.10



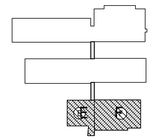
AREAS "E & "F" - ROOF STRUCTURAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF STRUCTURAL PLAN - AREA " E and F "

DRAWING BY: PJG
CHECK BY:

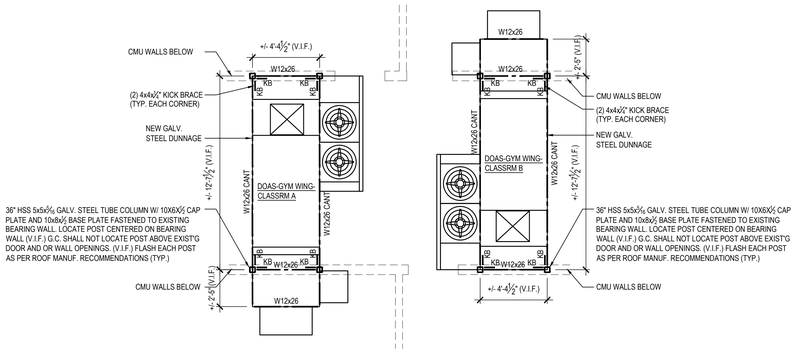
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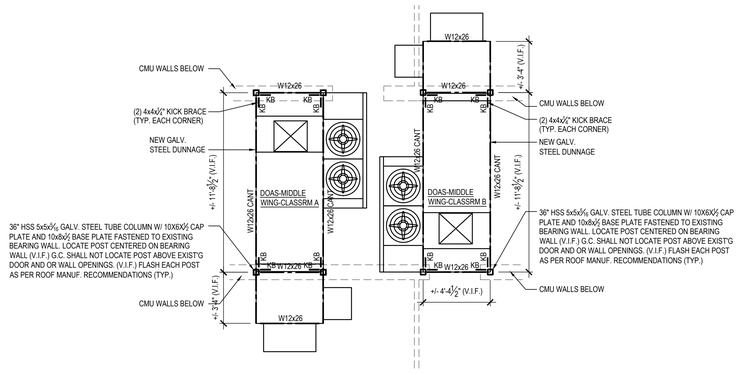
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF STRUCTURAL PLAN AREA " E and F "
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.11



DUNNAGE PLAN - DOAS - GYM WING - CLASSROOM A and CLASSROOM B

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"



DUNNAGE PLAN - DOAS - MIDDLE WING - CLASSROOM A and CLASSROOM B

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"

DUNNAGE PLAN - DOAS - MIDDLE WING - OFFICE SUITE

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"

DUNNAGE PLAN - DOAS - AUDITORIUM WING - CLASSROOMS

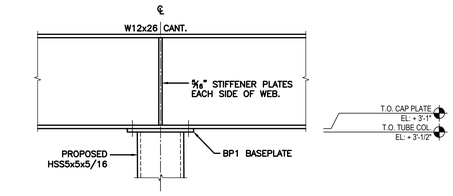
MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"

DUNNAGE PLAN - RTU AUDITORIUM STAGE

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"

DUNNAGE PLAN - RTU - BANDROOM

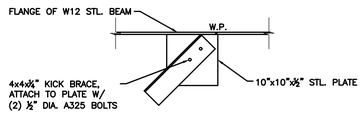
MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"



CONTINUOUS BEAM OVER COLUMN

SCALE: N.T.S.

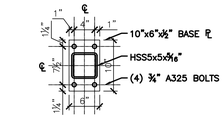
NOTES:
1. ALL STEEL SHALL BE HOT–DIPPED GALVANIZED



TYP. KICK BRACE – BEAM CONNECTION DETAIL

SCALE: N.T.S.

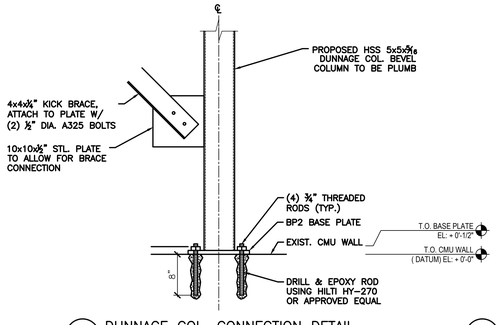
NOTES:
1. ALL STEEL SHALL BE HOT–DIPPED GALVANIZED



BASE PLATE (BP1) (THICKNESS = ½")

SCALE: 1" = 1'–0"

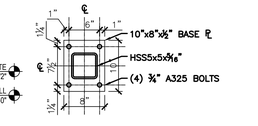
NOTES:
1. USE 13/16" DIA. HOLES FOR STANDARD BOLTS



DUNNAGE COL. CONNECTION DETAIL

SCALE: N.T.S.

NOTES:
1. ALL STEEL SHALL BE HOT–DIPPED GALVANIZED
2. CMU WALL BELOW POST TO HAVE CELLS FULLY GROUTED SOLID
3. EXISTING BRICK TO BE REMOVED AT TOP OF WALL AND NEW CMU INSTALLED AND CELLS FULLY GROUTED SOLID



BASE PLATE (BP2) (THICKNESS = ½")

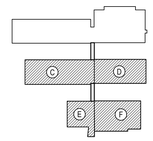
SCALE: 1" = 1'–0"

NOTES:
1. USE 15/16" HOLES FOR ANCHOR ROD HOLES

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: ROOF STUCTURAL PLAN - DUNNAGE PLANS

DRAWING BY: PJG

CHECK BY:

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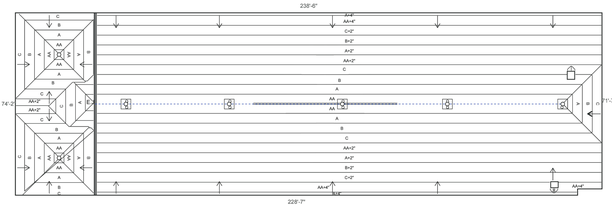
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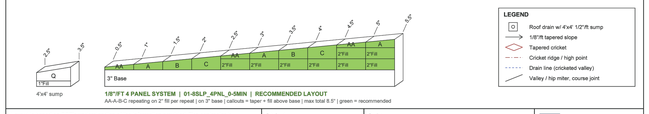
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	ROOF STRUCTURAL PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

A3.12

******* Conceptual layout - field verify before ordering *******





LEGEND
- Roof drain w/ 4"x4" 1/2"/ft sump
- 1/8"/ft tapered slope
- Tapered cricket
- Cricket ridge / high point
- Drain line (cricketed valley)
- Valley / hip miter, course joint

Layout is based on BRT's understanding of the information provided. The contractor is responsible for verifying existing/proposed conditions and dimensions and that this layout meets the job requirements before submittal or ordering.

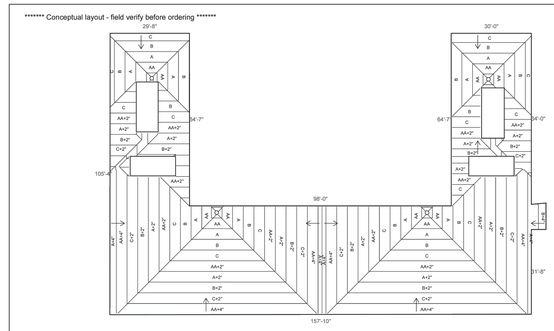
Designer: James Tsolas, 2026-10-21, info@brtnyc.com

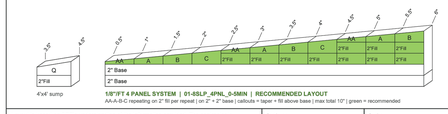
Project: **Millbrook CSD - Millbrook MS**
Section 1 of 5: Area A
1/8" Tapered (4 Panel), 3" Base, 4x4 1/2" Sumps, 1/2" Cover

BRT NYC Building and Restoration Technology

Quote # TQ26-0030-0

******* Conceptual layout - field verify before ordering *******





LEGEND
- Roof drain w/ 4"x4" 1/2"/ft sump
- 1/8"/ft tapered slope
- Tapered cricket
- Cricket ridge / high point
- Drain line (cricketed valley)
- Valley / hip miter, course joint

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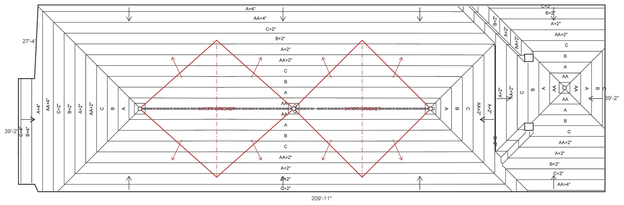
Designer: James Tsolas, 2026-10-21, info@brtnyc.com

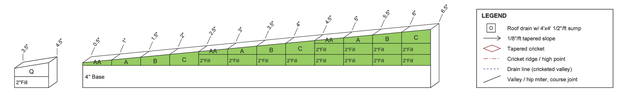
Project: **Millbrook CSD - Millbrook MS**
Section 2 of 5: Area B
1/8" Tapered (4 Panel), 2" + 2" Base, 4x4 1/2" Sumps, 1/2" Cover

BRT NYC Building and Restoration Technology

Quote # TQ26-0030-0

******* Conceptual layout - field verify before ordering *******





LEGEND
- Roof drain w/ 4"x4" 1/2"/ft sump
- 1/8"/ft tapered slope
- Tapered cricket
- Cricket ridge / high point
- Drain line (cricketed valley)
- Valley / hip miter, course joint

Layout is based on BRT's understanding of the information provided. The contractor is responsible for verifying existing/proposed conditions and dimensions and that this layout meets the job requirements before submittal or ordering.

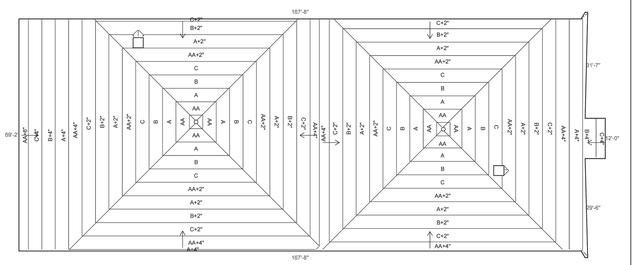
Designer: James Tsolas, 2026-10-21, info@brtnyc.com

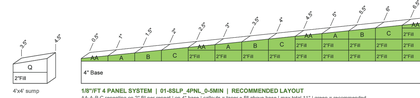
Project: **Millbrook CSD - Millbrook MS**
Section 3 of 5: Area C
1/8" Tapered (4 Panel), 1/4" Cricket, 4" Base, 4x4 1/2" Sumps, 1/2" Cover

BRT NYC Building and Restoration Technology

Quote # TQ26-0030-0

******* Conceptual layout - field verify before ordering *******





LEGEND
- Roof drain w/ 4"x4" 1/2"/ft sump
- 1/8"/ft tapered slope
- Tapered cricket
- Cricket ridge / high point
- Drain line (cricketed valley)
- Valley / hip miter, course joint

Layout is based on BRT's understanding of the information provided. The contractor is responsible for verifying existing/proposed conditions and dimensions and that this layout meets the job requirements before submittal or ordering.

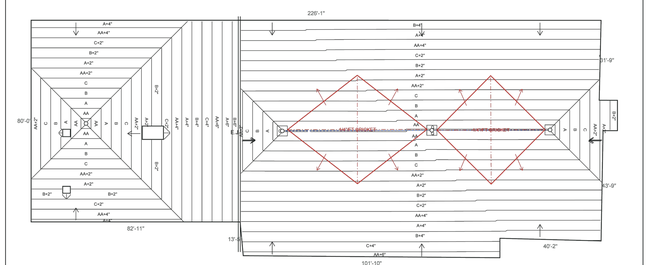
Designer: James Tsolas, 2026-10-21, info@brtnyc.com

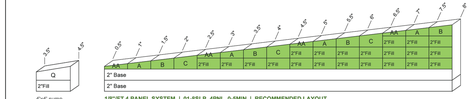
Project: **Millbrook CSD - Millbrook MS**
Section 4 of 5: Area D
1/8" Tapered (4 Panel), 4" Base, 4x4 1/2" Sumps, 1/2" Cover

BRT NYC Building and Restoration Technology

Quote # TQ26-0030-0

******* Conceptual layout - field verify before ordering *******





LEGEND
- Roof drain w/ 4"x4" 1/2"/ft sump
- 1/8"/ft tapered slope
- Tapered cricket
- Cricket ridge / high point
- Drain line (cricketed valley)
- Valley / hip miter, course joint

Layout is based on BRT's understanding of the information provided. The contractor is responsible for verifying existing/proposed conditions and dimensions and that this layout meets the job requirements before submittal or ordering.

Designer: James Tsolas, 2026-10-21, info@brtnyc.com

Project: **Millbrook CSD - Millbrook MS**
Section 5 of 5: Area E
1/8" Tapered (4 Panel), 1/4" Cricket, 2" + 2" Base, 4x4 1/2" Sumps, 1/2" Cover

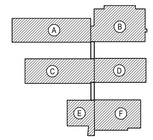
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Quote # TQ26-0030-0

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

ROOF TAPERED INSULATION PLANS

DWG TITLE

DRAWING BY: PJG

CHECK BY:

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: ROOF TAPERED PLAN

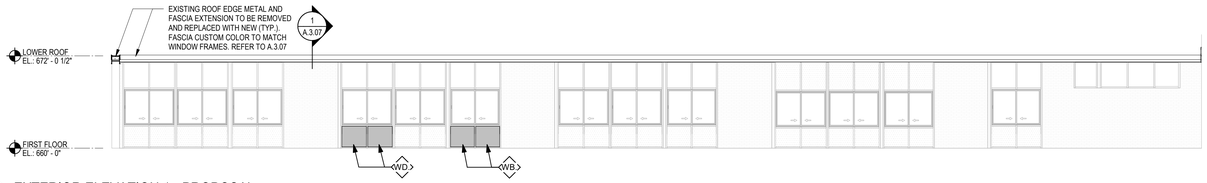
SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

A3.13

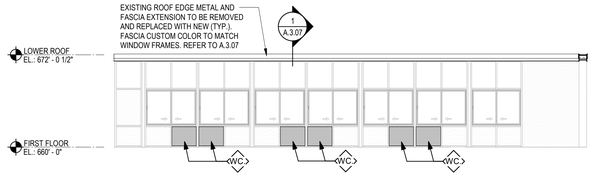


1 EXTERIOR ELEVATION 1 - PROPOSAL

SCALE: 1/8" = 1'-0"

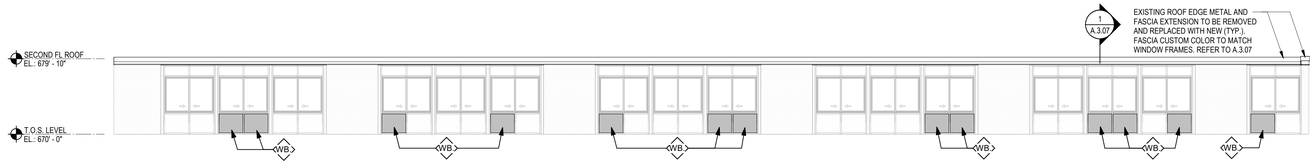
WINDOW KEYNOTES	
	NOTE
WA.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'0.5"
WB.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'1.5"
WC.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'2.5"
WD.	INSTALL INSULATED PANEL SIZE: 2'6" x 3'3"

CONSTRUCTION KEYNOTES	
NUMBER	NOTE
C1.	EXISTING CEILING TO REMAIN.
C2.	EXISTING LIGHTING FIXTURES TO REMAIN.
C3.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.



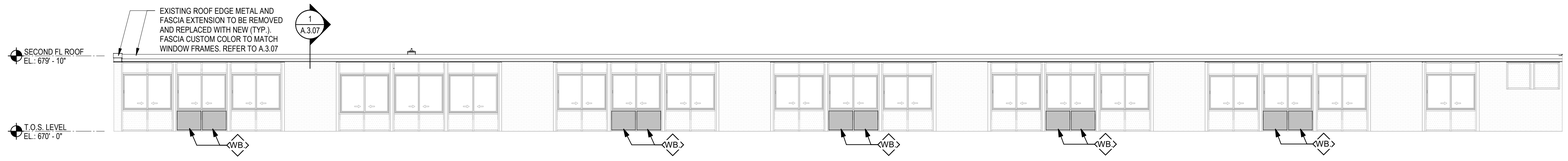
2 EXTERIOR ELEVATION 2 - PROPOSAL

SCALE: 1/8" = 1'-0"



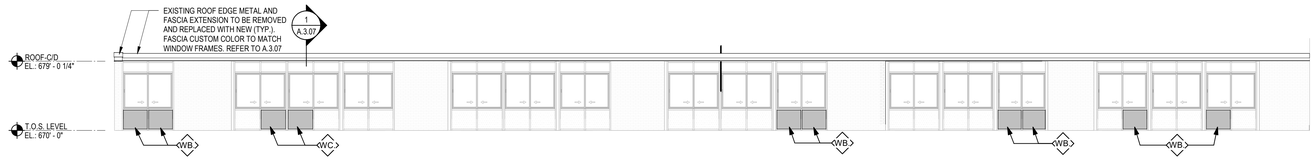
3 EXTERIOR ELEVATION 3 - PROPOSAL

SCALE: 1/8" = 1'-0"



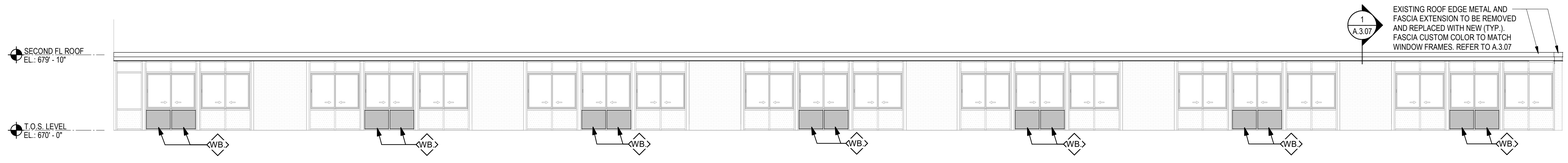
4 EXTERIOR ELEVATION 4 - PROPOSAL

SCALE: 1/8" = 1'-0"



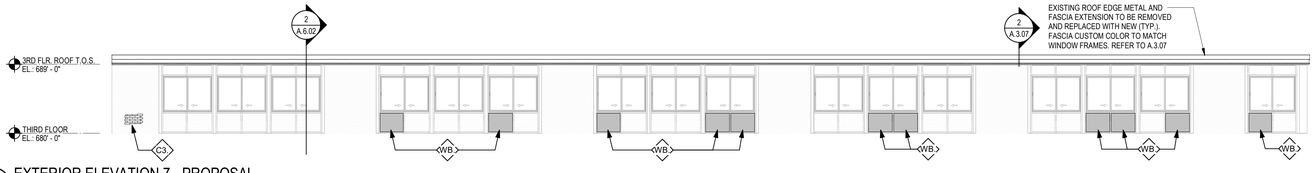
5 EXTERIOR ELEVATION 5 - PROPOSAL

SCALE: 1/8" = 1'-0"



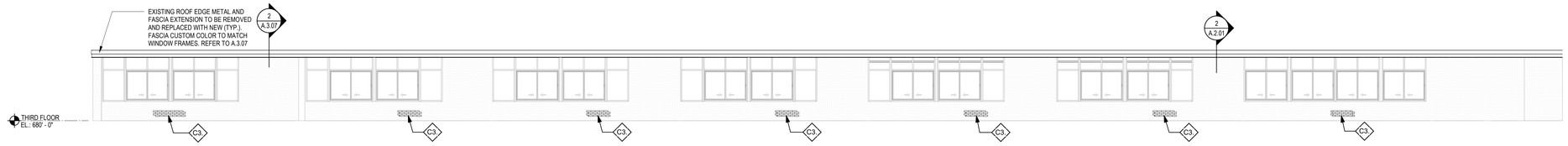
6 EXTERIOR ELEVATION 6 - PROPOSAL

SCALE: 1/8" = 1'-0"



7 EXTERIOR ELEVATION 7 - PROPOSAL

SCALE: 1/8" = 1'-0"



8 EXTERIOR ELEVATION 8 - PROPOSAL

SCALE: 1/8" = 1'-0"

9 SPANDREL REPLACEMENT PROPOSED

SCALE: 1 1/2" = 1'-0"

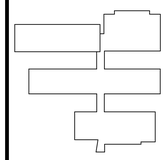
WINDOW PANEL REPLACEMENT COUNT

PANEL SIZE		TOTAL REQUIRED PANELS
2'6"x3'0.5"	A	2
2'6"x3'1.5"	B	53
2'6"x3'2.5"	C	8
2'6"x3'3"	D	4
TOTAL		67

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

EXTERIOR ELEVATIONS

DWG TITLE

DRAWING BY: EN, RK

CHECKED BY: K.G.

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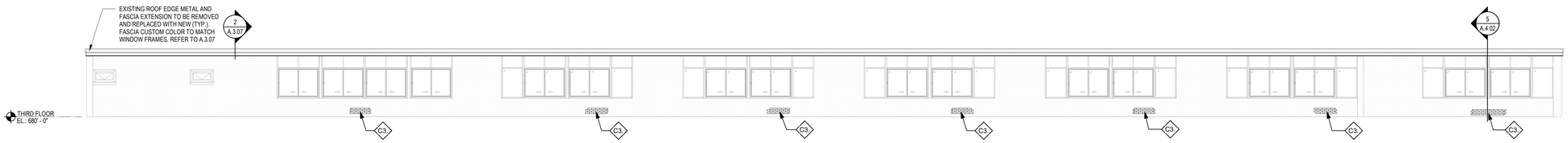
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	EXTERIOR ELEVATIONS
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.4.01

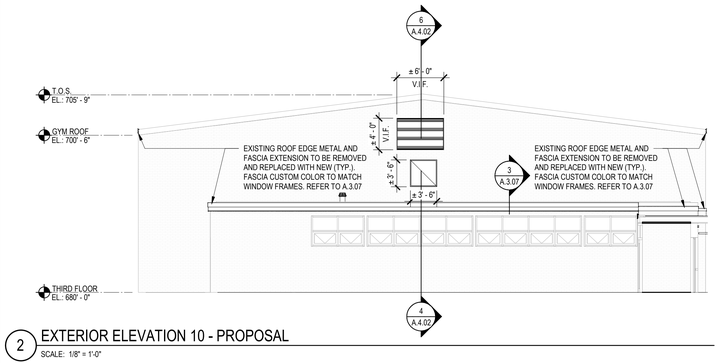
WINDOW PANEL REPLACEMENT COUNT

PANEL SIZE		TOTAL REQUIRED PANELS
2'6"x30.5"	A	2
2'6"x31.5"	B	53
2'6"x32.5"	C	8
2'6"x33"	D	4
TOTAL		67

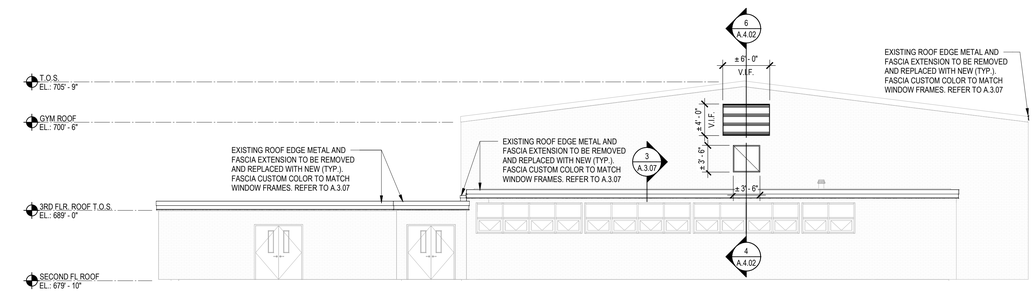
CONSTRUCTION KEYNOTES	
NUMBER	NOTE
C1.	EXISTING CEILING TO REMAIN.
C2.	EXISTING LIGHTING FIXTURES TO REMAIN.
C3.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.



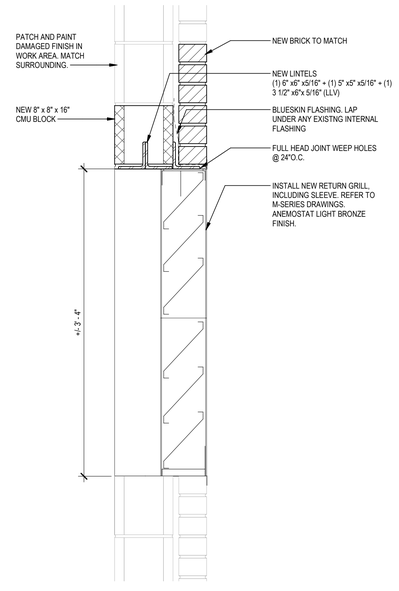
1 EXTERIOR ELEVATION 9 - PROPOSAL
SCALE: 1/8" = 1'-0"



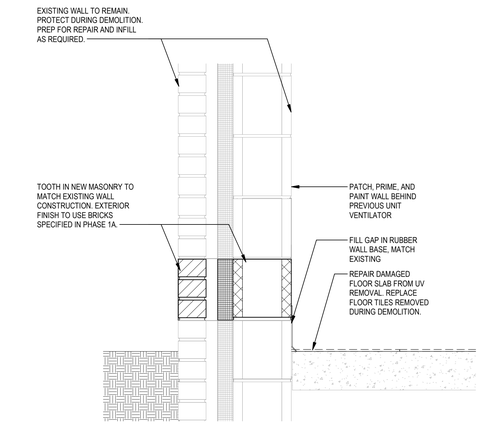
2 EXTERIOR ELEVATION 10 - PROPOSAL
SCALE: 1/8" = 1'-0"



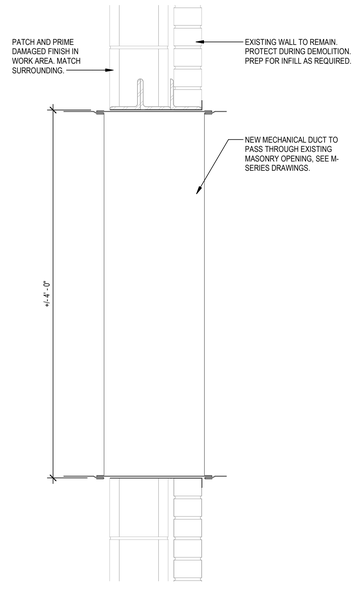
3 EXTERIOR ELEVATION 11 - PROPOSAL
SCALE: 1/8" = 1'-0"



4 GYM WALL GRILLE PROPOSED
SCALE: 1 1/2" = 1'-0"



5 LOUVER INFILL SECTION
SCALE: 1 1/2" = 1'-0"

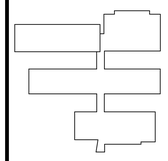


6 GYM WALL DUCT PROPOSED
SCALE: 1 1/2" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

EXTERIOR ELEVATIONS

DWG TITLE

DRAWING BY: EN
CHECKED BY: JBR/RLS

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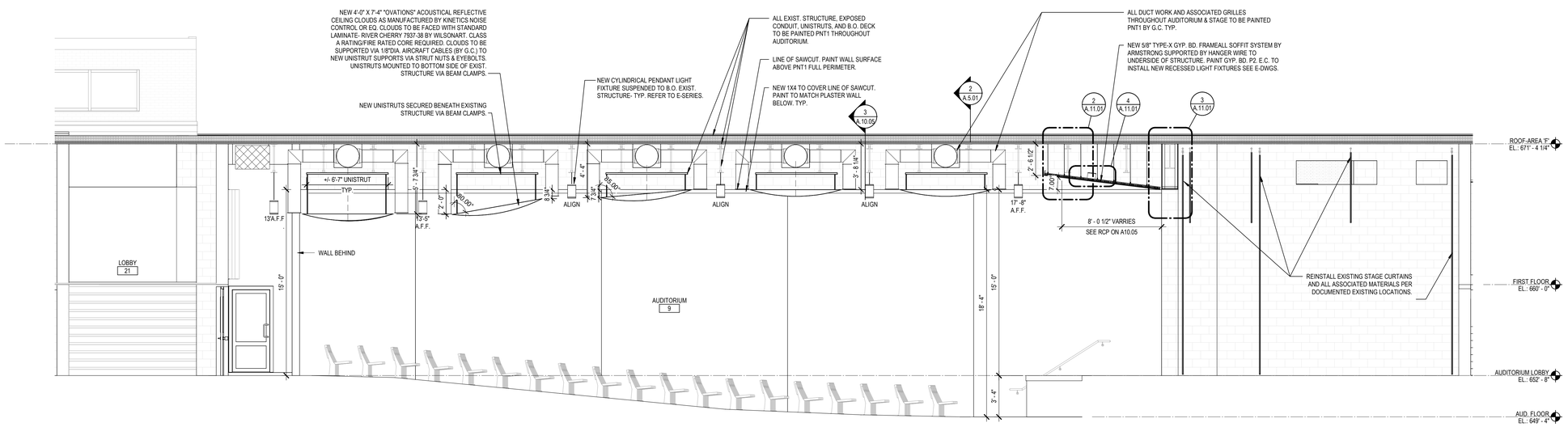
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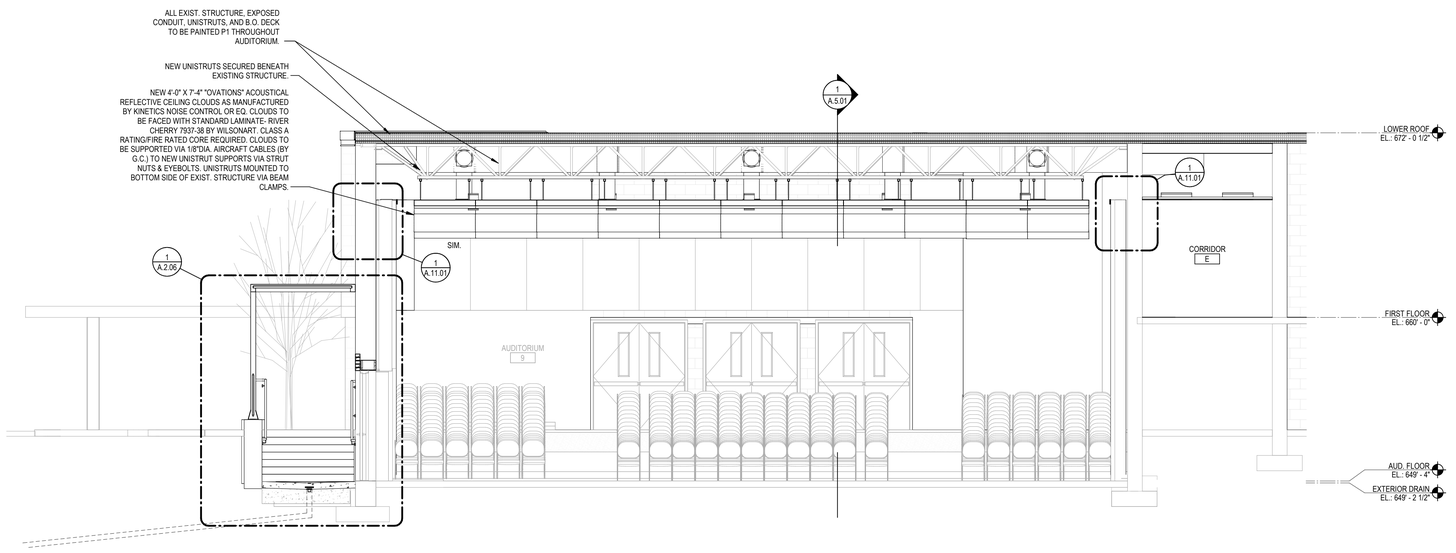
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	EXTERIOR ELEVATIONS
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

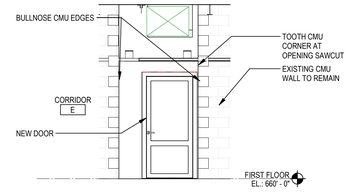
A.4.02



1 AREAS "E" & "F" - BUILDING SECTION
SCALE: 1/4" = 1'-0"



2 AREA "F" - BUILDING SECTION
SCALE: 1/4" = 1'-0"

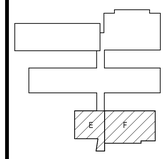


3 AREA "F" - CORRIDOR ELEVATION
SCALE: 1/4" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE
BUILDING SECTIONS - AREA F

DRAWING BY: JB/EN
CHECKED BY: RLS/JBR

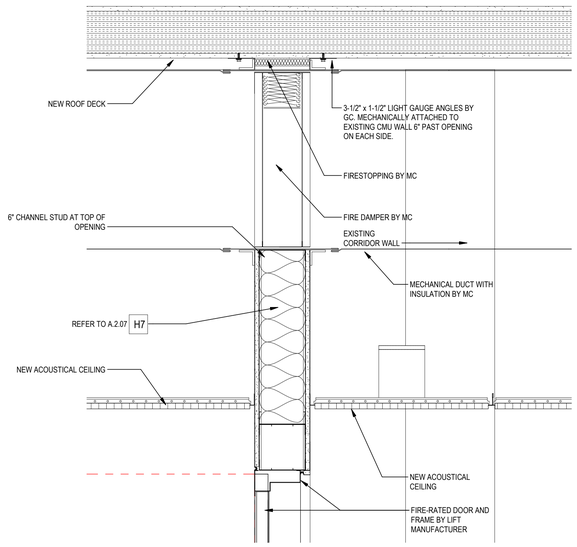
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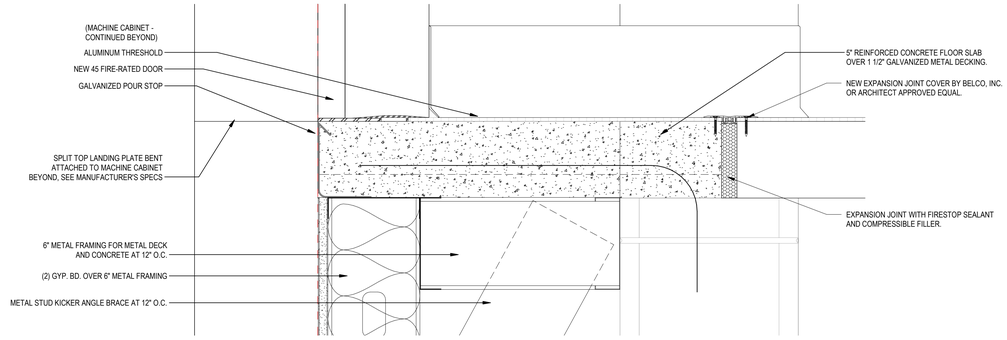
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	BUILDING SECTIONS - AREA F
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

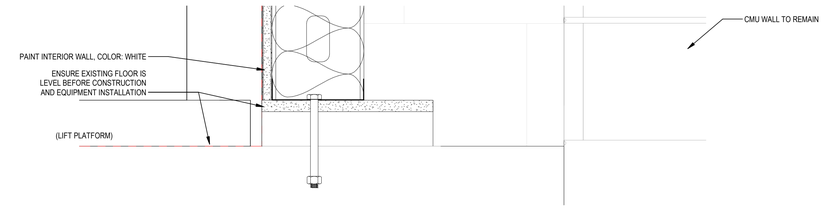
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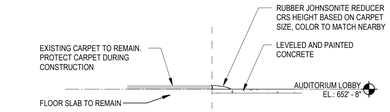
3 ACCESSIBLE LIFT SECTION 2
SCALE: 1 1/2" = 1'-0"



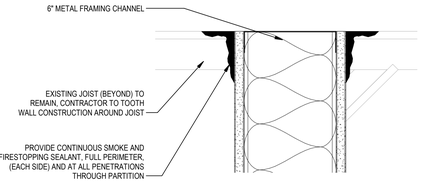
1C ACCESSIBLE LIFT SECTION DETAIL 1C
SCALE: 3" = 1'-0"



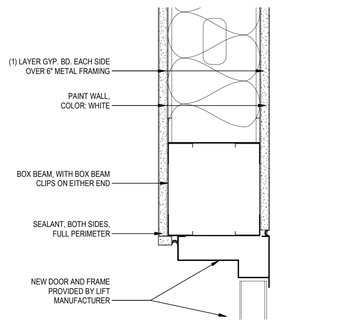
1D ACCESSIBLE LIFT SECTION DETAIL 1D
SCALE: 3" = 1'-0"



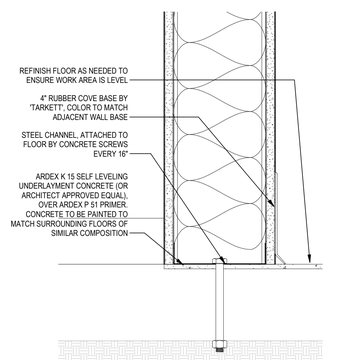
1E ACCESSIBLE LIFT SECTION DETAIL 1E
SCALE: 3" = 1'-0"



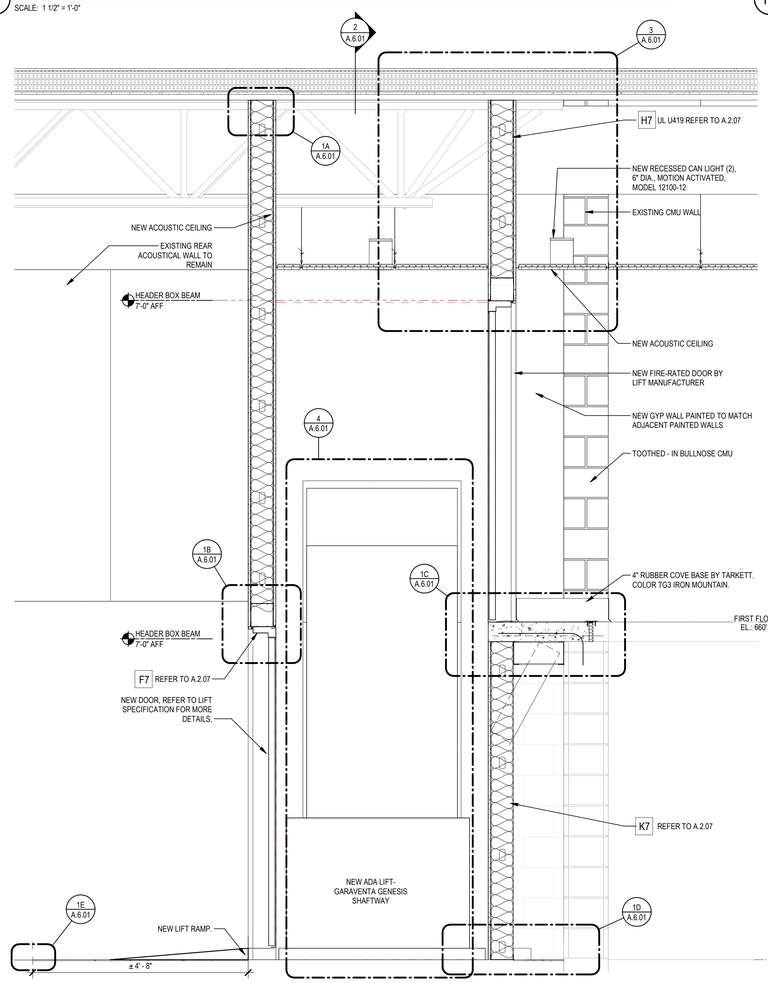
1A ACCESSIBLE LIFT SECTION 1A
SCALE: 3" = 1'-0"



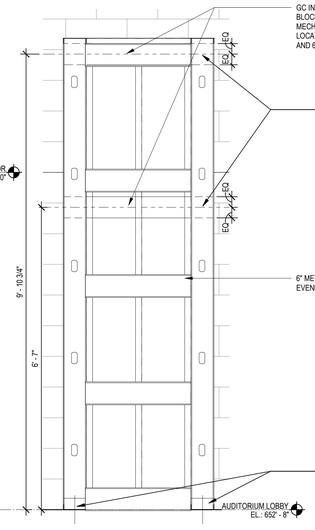
1B ACCESSIBLE LIFT SECTION DETAIL 1B
SCALE: 3" = 1'-0"



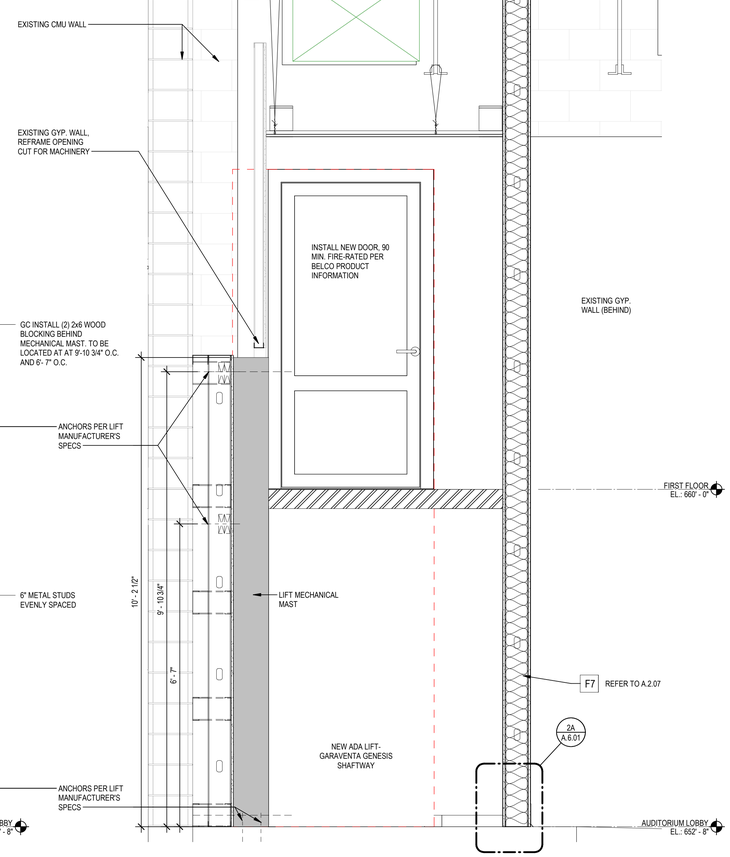
2A ACCESSIBLE LIFT SECTION DETAIL 2B
SCALE: 3" = 1'-0"



1 ACCESSIBLE LIFT SECTION 1
SCALE: 3/4" = 1'-0"



4 STRUCTURAL FRAMING DETAIL
SCALE: 3/4" = 1'-0"

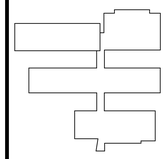


2 ACCESSIBLE LIFT - SECTION 2
SCALE: 3/4" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: WALL SECTIONS

DRAWING BY: E.N.

CHECKED BY: RLS/JBR

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: WALL SECTIONS

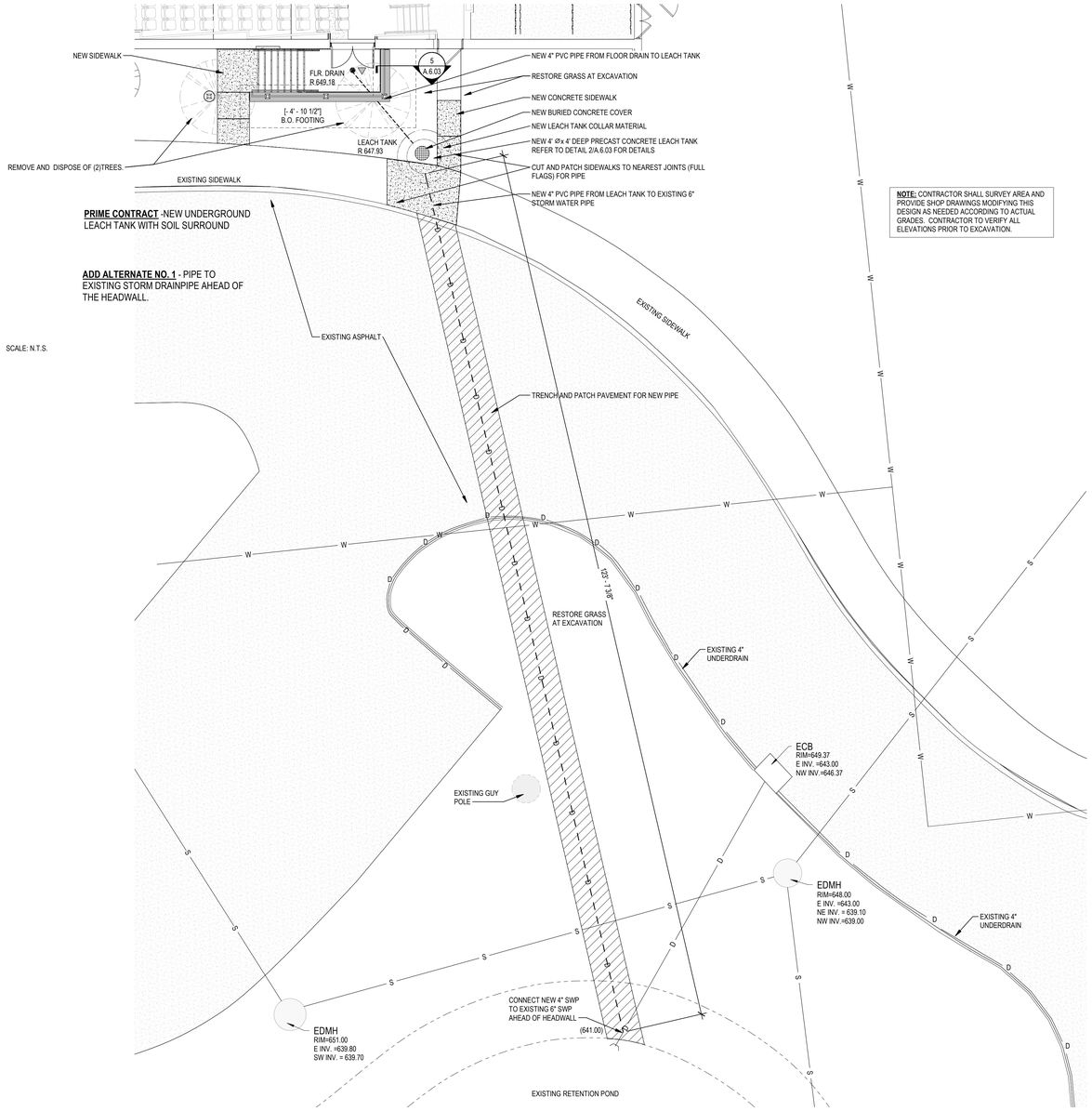
SCALE: AS NOTED

DATE: 6/24/26

BID PICK UP: 10/26/2026

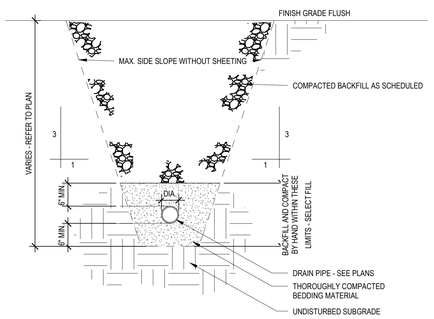
FILE No. 25-273

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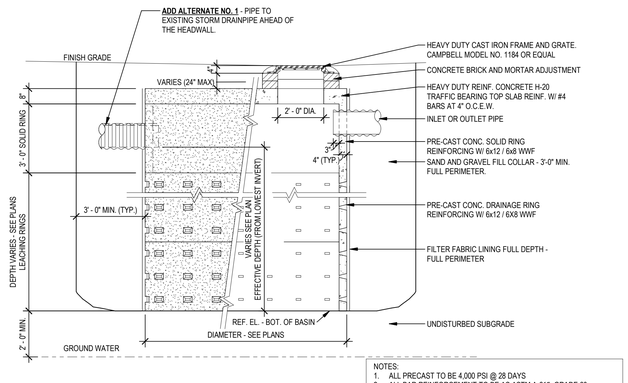
1 AREA "F" - EXTERIOR STAIR SITE PLAN

SCALE: 1/8" = 1'-0"



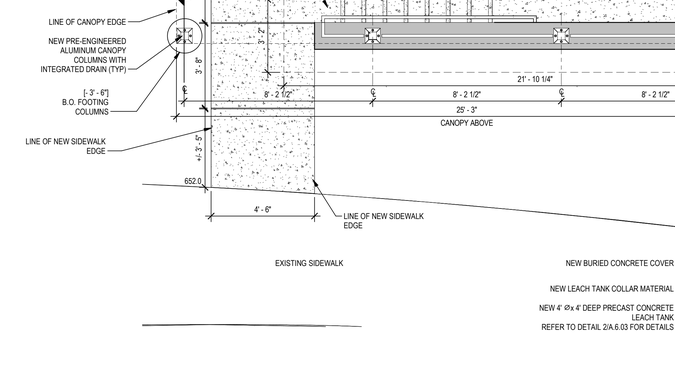
2 ADD ALT STORM DRAIN TRECNH DETAIL

SCALE: 3/4" = 1'-0"



NOTES:
1. ALL PRECAST TO BE 4,000 PSI @ 28 DAYS
2. ALL BAR REINFORCEMENT TO BE AS ASTM A-615, GRADE 60
3. ALL WELDED WIRE REINFORCEMENT TO BE ASTM A-185
4. TRAFFIC TOP SLAB TO MEET AASHTO H-20 LOADING REQUIREMENTS

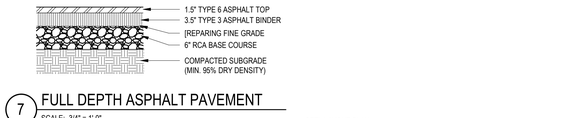
3 LEACHING BASIN DETAIL



NOTE: CONTRACTOR SHALL SURVEY AREA AND PROVIDE SHOP DRAWINGS MODIFYING THIS DESIGN AS NEEDED ACCORDING TO ACTUAL GRADES. CONTRACTOR TO VERIFY ALL ELEVATIONS PRIOR TO EXCAVATION.

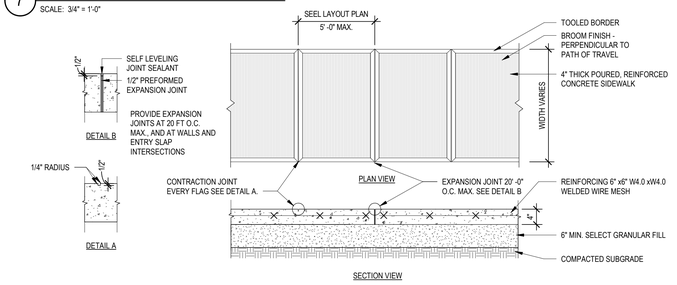
4 AREA "F" - EXTERIOR STAIR CANOPY

SCALE: 3/8" = 1'-0"



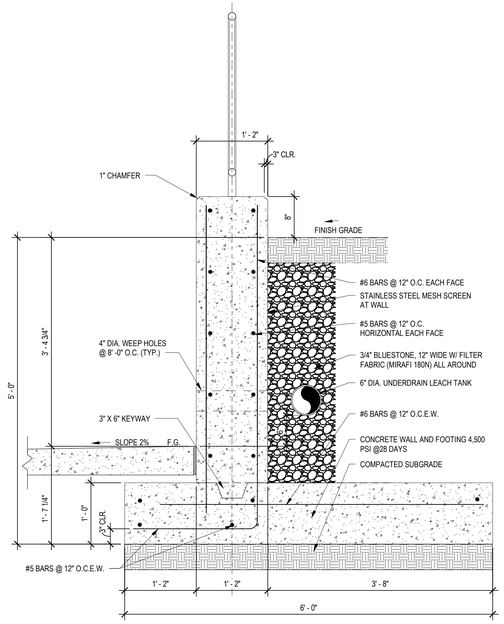
7 FULL DEPTH ASPHALT PAVEMENT

SCALE: 3/4" = 1'-0"



6 CONCRETE SIDEWALK

SCALE: 3/4" = 1'-0"



5 RETAINING WALL DETAIL

SITE LEGEND

S	EXISTING SANITARY
W	EXISTING WATER
D	EXISTING STORM DRAIN
D	PROPOSED STORM DRAIN
	BUILDING ENTRY
(000.00)	PROPOSED GRADE ELEVATION
(000.00)	SOLID COVER ELEVATION
ECB	EXISTING CATCH BASIN
EDMH	EXISTING DRAINAGE MANHOLE

SITE CONSTRUCTION NOTES

C.1) THE GENERAL CONTRACTOR SHALL PREPARE A CONSTRUCTION IMPLEMENTATION DRAWING FOR REVIEW AND APPROVAL BY THE OWNER, THE OWNER'S CONSTRUCTION MANAGER AND / OR THE ARCHITECT. THE PLAN SHALL INCLUDE INFORMATION ON INGRESS AND EGRESS FROM THE BUILDING, THE LOCATION OF TEMPORARY FENCE, AND PLACEMENT OF CONSTRUCTION TRAILERS, EQUIPMENT, STOCKPILES AND MATERIALS.

C.2) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINE GRADING AND SEEDING AT AREAS DISTURBED BY CONSTRUCTION AND/OR CONSTRUCTION ACTIVITIES.

C.3) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL EXISTING DRAINAGE STRUCTURES THAT ARE TO REMAIN WITHIN OR JUST ADJACENT TO THE SCOPE AREAS. G.C. SHALL INSPECT STRUCTURES AND NOTIFY OWNER/ARCHITECT IF ANY REPAIRS ARE NECESSARY.

C.4) THE ELECTRICAL CONTRACTOR AND THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCHING ASSOCIATED WITH THE INSTALLATION OF THE UTILITIES FOR WHICH THEY ARE INSTALLING. TRENCHING SHALL CONSIST OF SAW CUTTING OF PAVEMENT EXCAVATION AND BACK FILLING. BACK FILLING SHALL CONFORM TO SPECIFICATIONS. FINE GRADING AND PATCHING SHALL BE PERFORMED BY GENERAL CONTRACTOR.

SITE DEMOLITION NOTES

D.1) PRIOR TO DEMOLITION, CONTRACTOR SHALL VERIFY AND MARK OUT THE LOCATIONS OF ALL DRAINAGE STRUCTURES AND ASSOCIATED PIPING TO BE REMOVED AS WELL AS EXISTING UTILITIES THAT ARE PRESENT IN THE VICINITY.

D.2) THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCE AND SAFE OPERATION SHEET PILING FOR ALL EXCAVATIONS IN EXCESS OF FIVE FEET DEEP WHICH NEED TO BE LEFT OPEN PRIOR TO BACK FILLING. SAFE OPERATION SHEET PILING SHALL BE PLACED IN ACCORDANCE WITH OSHA REQUIREMENTS.

D.3) THE GENERAL CONTRACTOR SHALL PROVIDE TEMPORARY SECURITY FENCE AROUND ALL AREAS OF DEMOLITION WORK AS INDICATED WITHIN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE OWNER, OWNER'S CONSTRUCTION MANAGER OR THE ARCHITECT. TEMPORARY FENCE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SPECIFICATIONS.

D.4) ALL SITE DEMOLITION WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH SPECIFICATIONS

D.5) ALL CONTRACTORS AND THEIR SUBCONTRACTORS SHALL EXERCISE EXTREME CARE TO AVOID DAMAGE TO SUBJECT PROPERTY AS WELL AS ADJACENT PROPERTIES WHEN TRAVELING TO OR PERFORMING WORK WITHIN THE CONTRACT AREAS. SUCH DAMAGE SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE EXPENSE OF THE GENERAL CONTRACTOR.

D.6) GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING TREES DURING CONSTRUCTION. ANY DAMAGE TO TREES WILL BE PRUNED TO THE SATISFACTION OF THE ARCHITECT/OWNER. IN EVENT THE TREE CANNOT BE PRUNED TO THE SATISFACTION OF THE ARCHITECT/OWNER, THE TREE SHALL BE REPLACED WITH ONE OF EQUAL SIZE AND QUALITY AT NO ADDITIONAL COST TO THE OWNER.

D.7) GENERAL CONTRACTOR SHALL HAND EXCAVATE IN AREAS OF ROOF DRAIN POOLS, CATCH BASINS, PIPING AND OR UNDERGROUND UTILITIES. EXCAVATION IS TO TAKE PLACE SO AS TO AVOID DAMAGE TO EXISTING SYSTEMS. IN THE EVENT OF DAMAGES THE G.C. SHALL REPAIR OR REPLACE ALL SYSTEMS AT NO EXTRA COST TO OWNER.

UTILITY NOTES

1. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES ARE APPROXIMATE. THE G.C. SHALL BE RESPONSIBLE TO VERIFY THE EXACT LOCATIONS OF ALL UTILITIES AND STRUCTURES WHICH HIS WORK IS ADJACENT TO, TIED INTO OR WHICH ARE WITHIN THE CONTRACT LIMITS OF THE WORK. ALL UTILITY MARK-OUTS, TERMINATIONS, AND UNDERGROUND STRUCTURES SHALL BE TONED OUT BY THE G.C. PRIOR TO COMMENCING DEMOLITION ACTIVITIES.

2. MARK-OUT OF UNDERGROUND DRAINAGE PIPE WERE DONE BY OTHERS. BURTON, BEHRENDT AND SMITH, P.C. ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND STRUCTURES, LOCATION, OR SIZES, AS SHOWN.

3. EXISTING DRAINAGE SYSTEM CAPACITIES, LOCATIONS, SIZES AND QUANTITIES ARE FROM ORIGINAL CONSTRUCTION DOCUMENTS AND/OR MARK-OUT (NOT PREPARED BY BBS) AND MAY NOT REFLECT AS BUILT CONDITIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.

4. REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION G.C. SHALL COORDINATE ANY WORK TO BE PERFORMED WITH ALL TRADES.

REV.	DATE	ITEM
1	5/19/26	SED ADDENDUM 3

NOTICE

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PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE
AREA F - EXTERIOR STAIR SITE PLAN

DRAWING BY: R.L.S
CHECKED BY: JBR

NOTICE

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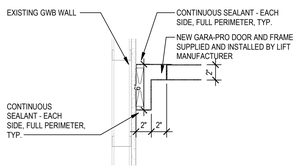
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA F - EXTERIOR STAIR SITE PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.6.03

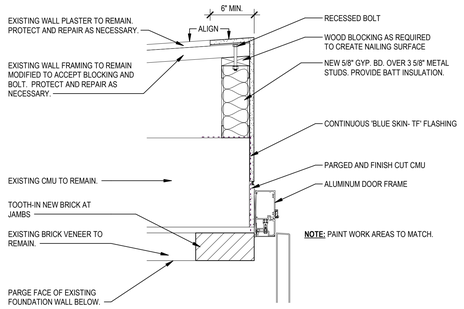
DOOR SCHEDULE 1B

DOOR No.	LOCATION		SIGNAGE	DOOR						FRAME		HARDWARE	DETAIL				FIRE	REMARKS	DOOR No.
	FROM ROOM	TO ROOM		LEAVES	WIDTH	HEIGHT	THICKNESS	ELEV. TYPE	MATERIAL	GLAZING	TYPE	MATERIAL	GLAZING	SET	HEAD	JAMB	SILL	T'HOLD	RATING		
3	AUDITORIUM 9	EXTERIOR	---	2	6' - 0"	7' - 0"	1 3/4"	A	FRP	N/A	F1	ALUM	N/A	01	H2	J2	--	T2	2 HR		3
4	ELECTRICAL ROOM	EXTERIOR	---	2	6' - 0"	7' - 0"	1 3/4"	A	FRP	N/A	F1	ALUM	N/A	01	H4	J4	--	T2	2 HR	PANIC/ FIRE HARDWARE	4

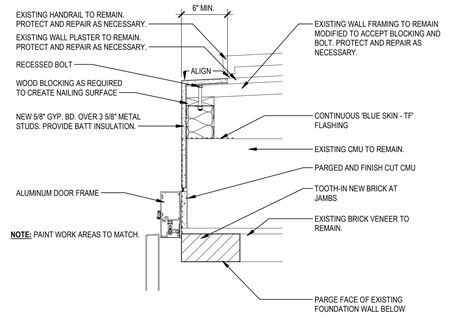
DOOR No. 1 AND DOOR No. 2 , WITH ALL NECESSARY HARDWARE, ARE TO PROVIDED WITH ASCENSION LIFT SYSTEM



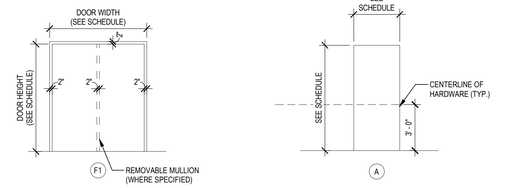
J1 HINGE SIDE JAMB DETAIL @ INTERIOR UNRATED WALL
SCALE: 1 1/2" = 1'-0"



J2a EXT. JAMB DETAIL @ AUDITORIUM
SCALE: 1 1/2" = 1'-0"

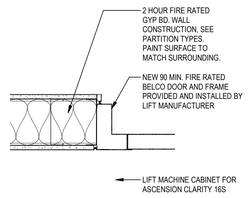


J2b EXT. JAMB DETAIL @ AUDITORIUM
SCALE: 1 1/2" = 1'-0"

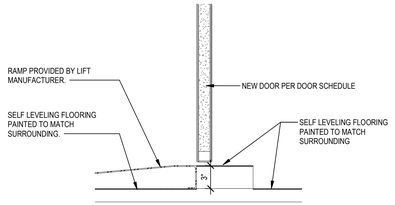


NOTE: REFER TO DOOR SCHEDULE FOR DOOR FRAME MATERIAL.

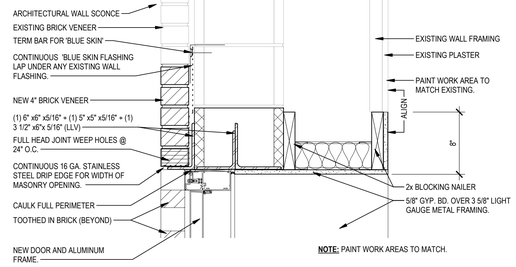
NOTE: REFER TO DOOR SCHEDULE FOR DOOR MATERIAL AND GLAZING TYPE (WHERE APPLICABLE).



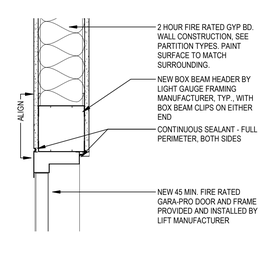
J3 JAMB DETAIL @ 1 HR RATED WALL
SCALE: 1 1/2" = 1'-0"



H1 HEAD DETAIL @ INTERIOR UNRATED WALL
SCALE: 1 1/2" = 1'-0"

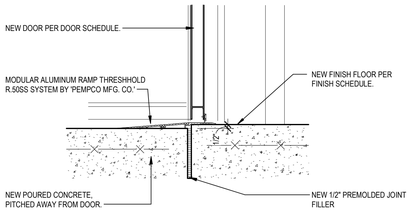


H2 EXTERIOR DOOR HEAD @ AUDITORIUM
SCALE: 1 1/2" = 1'-0"

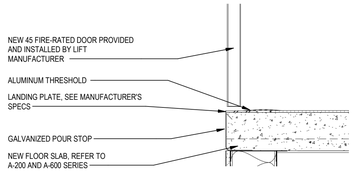


H3 HEAD DETAIL @ 1 HR RATED WALL
SCALE: 1 1/2" = 1'-0"

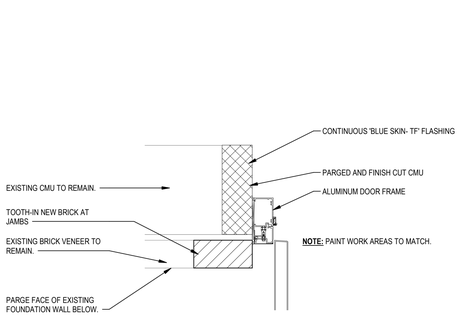
T1 TYP. THRESHOLD DETAIL @ INTERIOR
SCALE: 1 1/2" = 1'-0"



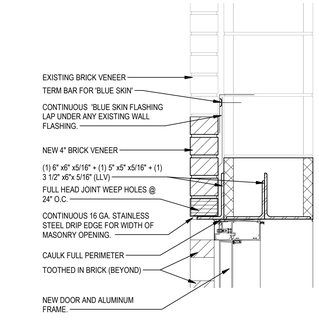
T2 THRESHOLD DETAIL @ EXTERIOR
SCALE: 1 1/2" = 1'-0"



T3 THRESHOLD DETAIL @ 1 HR RATED WALL
SCALE: 1 1/2" = 1'-0"



J4 EXT. JAMB DETAIL @ ELECTRIC ROOM
SCALE: 1 1/2" = 1'-0"



H4 EXTERIOR DOOR HEAD @ ELECTRIC ROOM
SCALE: 1 1/2" = 1'-0"

ABBREVIATION LEGEND

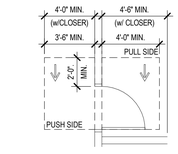
ALUM.	ALUMINUM
F.R.P.	FIBERGLASS REINFORCED POLYESTER

DOOR NOTES

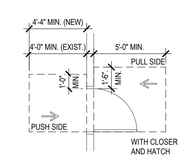
1. ALL DOORS, FRAMES AND HARDWARE SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
2. GENERAL CONTRACTOR SHALL COORDINATE ALL KEYING WITH OWNER.
3. ALL GLAZING IN DOORS SHALL BE INSTALLED IN METAL VISION KIT TO MATCH FIRE LABEL. VISION KIT COLOR SHALL BE AS SELECTED BY ARCHITECT. INTERIOR GLAZING TYPES AND SIZES SHALL CONFORM TO NFPA 80 AND/OR ASTM E119. WHERE SECURITY GLAZING IS INDICATED, VISION KIT SHALL BE THROUGH BOLT TYPE.
4. ALL NEW H.M. FRAMES SHALL BE FULLY WELDED WRAP AROUND TYPE (UNLESS OTHERWISE NOTED OR DETAILED). THROATS SHALL BE SIZED ACCORDING TO WALL THICKNESS AND FINISH, REFER TO FLOOR PLAN AND ENLARGED DETAILS FOR ADDITIONAL INFORMATION.
5. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING HEIGHT AND WIDTH OF PROPOSED DOORS TO BE INSTALLED IN EXISTING FRAMES (PRIOR TO SHOP DRAWING SUBMITTAL) TO ENSURE PROPER FIT AND DOOR FUNCTION.
6. FIRE RATED GLAZING WITH SURFACE APPLIED FILMS WILL NOT BE CONSIDERED EQUIVALENT WHERE LAMINATED FILM IS SPECIFIED.

TYPICAL ADA APPROACH CLEARANCES

CONFORM TO ANSI A117.1-2017 STANDARDS FOR APPROACH

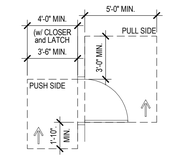


A DOOR PLAN/ DETAIL
SCALE:NTS at LATCH APPROACH



WITH CLOSER AND HATCH

B DOOR PLAN/ DETAIL
SCALE:NTS at FRONT APPROACH w/ CLOSER and LATCH



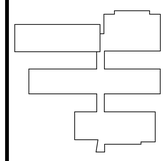
C DOOR PLAN/ DETAIL
SCALE:NTS at HINGE APPROACH

REV. 0.0020

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

DOOR SCHEDULE AND DETAILS

DWG TITLE

DRAWING BY: E.N./RLS
CHECKED BY: RLS/JBR

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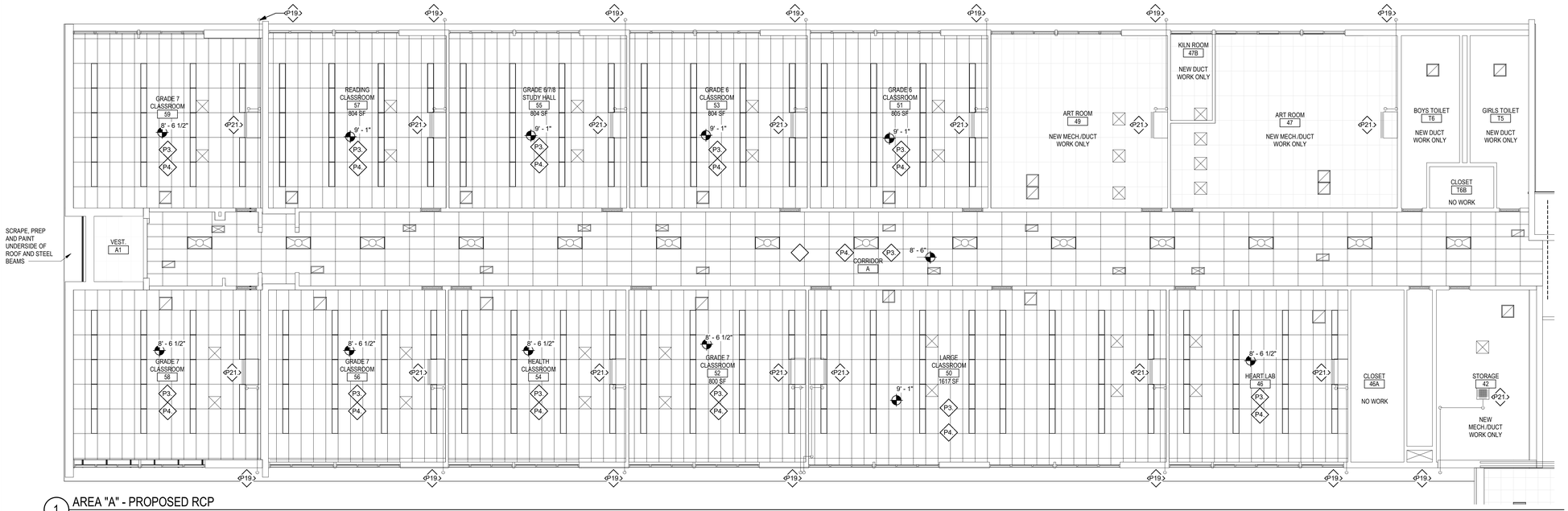
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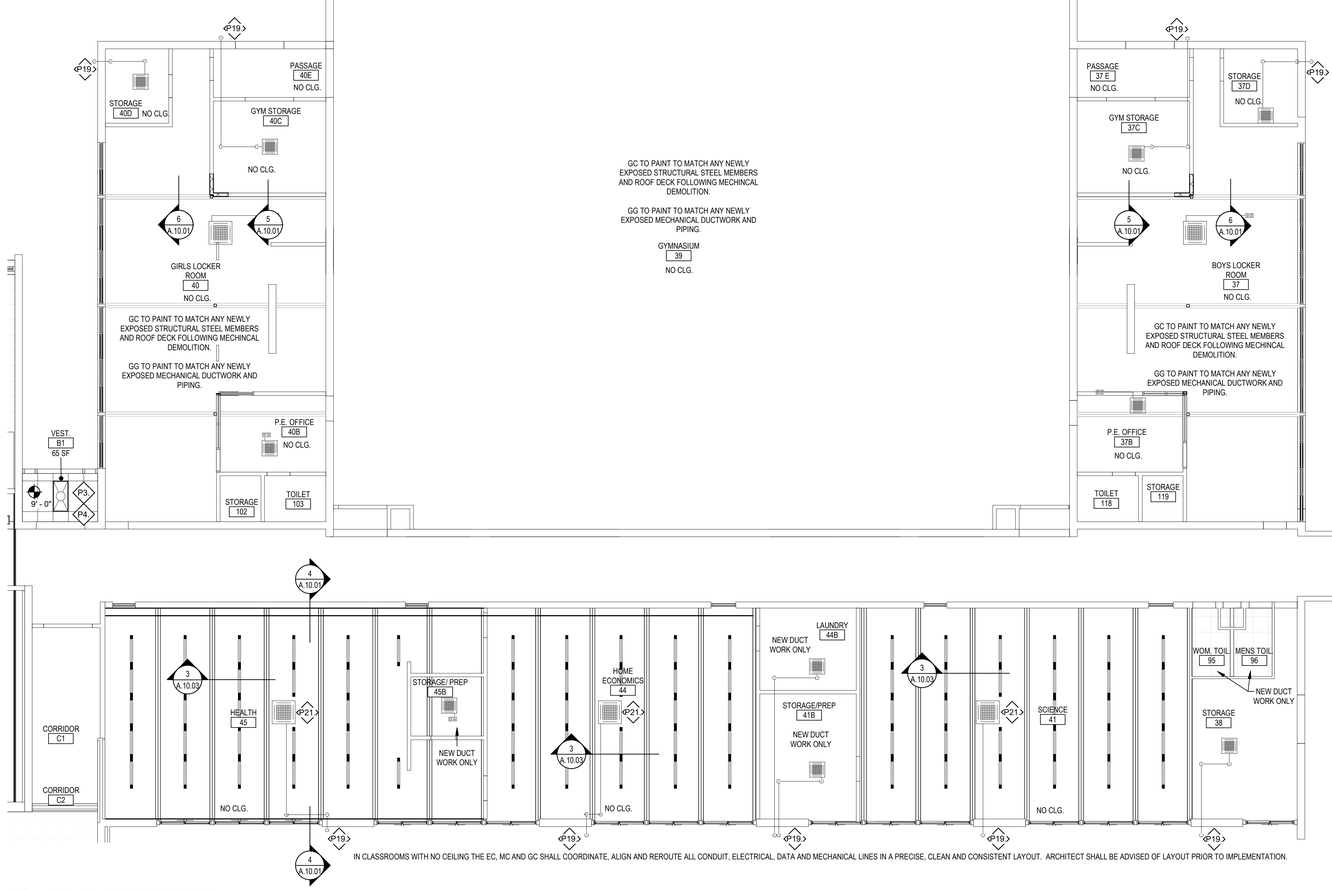
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	DOOR SCHEDULE AND DETAILS
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.8.01



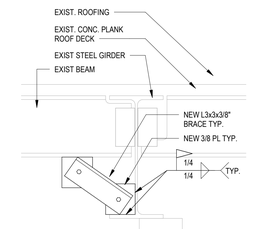
1 AREA "A" - PROPOSED RCP

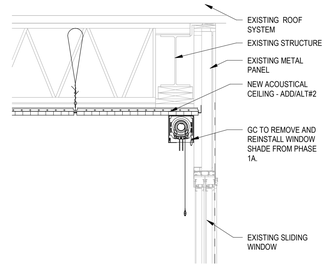
SCALE: 1/8" = 1'-0"



2 AREA "B" - PROPOSED RCP

SCALE: 1/8" = 1'-0"



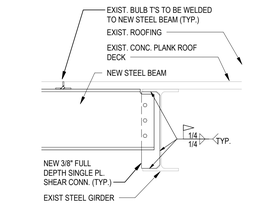


3 AREA "A" - TYPICAL SOFFIT DETAIL

SCALE: 1" = 1'-0"

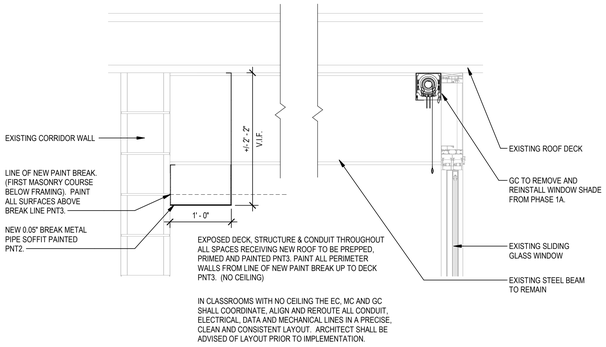
5 SECTION DETAIL @ NEW BRACING

SCALE: 1 1/2" = 1'-0"



6 SECTION DETAIL @ NEW BEAM

SCALE: 1" = 1'-0"



4 AREA "B" - TYPICAL METAL SOFFIT DETAIL

SCALE: 1" = 1'-0"

PROPOSED KEYNOTES

NUMBER	NOTE
P1.	GC SHALL USE SELF-LEVELING PRODUCT TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB. FLASH PATCH AND PREP SURFACE AS NEEDED TO RECEIVE NEW FINISH FLOORING.
P2.	GC TO PROVIDE FLASH PATCHING TO ACHIEVE REQUIRED SLOPE AS INDICATED.
P3.	EC TO REINSTALL EXISTING SALVAGED LIGHT FIXTURES ONINTO NEW CEILING GRID SYSTEM IN THIER PREEXISTING LOCATIONS. COORDINATE WITH GC.
P4.	GC TO PROVIDE AND INSTALL NEW CEILING GRID AND TILE SYSTEM PER SPECIFICATIONS. COORDINATE LAYOUT WITH ELECTRICAL CONTRACTOR.
P5.	OWNER TO REINSTALL EXISTING STAGE CURTAINS AND ALL ASSOCIATED MATERIALS.
P6.	EC TO INSTALL OWNER-FURNISHED (EPC-PROP2) FIXTURES. EC SHALL COORDINATE DELIVERY, STORAGE AND INSTALLATION WITH THE GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
P7.	GC TO PREP, PRIME AND PAINT (P3) ALL EXPOSED ELEMENTS THROUGHOUT AREAS INDICATED. GC SHALL ALSO PAINT (P3) WALL PORTIONS AS INDICATED IN DETAIL 3/B10.03.
P8.	GC TO PROVIDE PAINTED STAIR NOSING WITH CONTRASTING COLOR STRIPPING PER SPECIFICATIONS.
P10.	OWNER TO REINSTALL CONCRETE INFILL OF BRICK SET BACK. HEIGHT TO MATCH ADJACENT SIDEWALK ELEVATION.
P11.	GC TO PROVIDE NEW 1 1/2" DIA., SCH. 40 FULLY WELDED STEEL HANDRAIL. POWDERCOATED FINISH. COLOR AS SELECTED BY ARCHITECT.
P12.	GC TO INSTALL HOT WATER PIPING, INCLUDING 2" THICK INSULATION SURROUNDING THEM, WITH MC PRESENT.
P13.	GC TO REPAIR WALLBASE (COLOR SELECTED BY ARCHITECT), PATCH AND FILL MECHANICAL PENETRATIONS, PAINT THE WALLS TO MATCH THE EXISTING (WORK AREA ONLY) FOLLOWING THE REMOVAL OF THE UNIT VENTILATORS.
P14.	GC TO PATCH, PRIME AND PAINT, THEN REINSTALL EXISTING CEILING TRIM.
P15.	NEW BEAM TO BE INSTALLED. PRIME AND PAINT. SEE A300 SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
P16.	GC TO FINISH FLOORING IN WORK AREA TO MATCH SURROUNDING.
P17.	GC TO TOOTH IN NEW CMU CONSTRUCTION. FINISH TO MATCH SURROUNDING.
P18.	NEW COLUMN INSTALLED. PRIME AND PAINT.
P19.	MC TO CORE DRILL CONDENSATE PIPE OPENINGS WITH GC PRESENT. REFER TO DETAILS 2/A.2.01, 6/A.0.03 AND 7/A.10.03 FOR INFORMATION. GC TO PATCH AS NEEDED.
P20.	GC TO INFILL OPENING IN WALL WITH CMU AND BRICK TO MATCH SURROUNDING WALLS. BRICK FINISH TO MATCH BRICK USED IN BOND PHASE 1A.
P21.	MC TO PROVIDE NEW MECHANICAL AIR UNITS. REFER TO M-SERIES DRWINGS FOR INFORMATION.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	ROOM TAG
XXXX	ROOM NAME
XXX	ROOM NUMBER
XXX SF	ROOM AREA
NO CLG.	OPEN TO STRUCTURE AND DECK ABOVE (PAINT)
	NEW SUSPENDED ACOUSTICAL CEILING TILE AND GRID.
	NEW GYPSUM BOARD SOFFIT OVER METAL FRAMING. REFER TO B11.01.
	REINSTALLATION OF RECESSED CAN FIXTURES.
	NEW RECESSED CAN FIXTURES. REFER TO E- SERIES DRAWINGS.
	REINSTALLATION OF SUSPENDED LIGHT FIXTURE.
	REINSTALLATION OF SUSPENDED LIGHT FIXTURE.
	REINSTALLATION OF 2 x 4 ACOUSTICAL CEILING LIGHT FIXTURE.
	REINSTALLATION OF 2 x 2 ACOUSTICAL CEILING LIGHT FIXTURE.
	NEW CYLINDRICAL PENDANT LIGHTS. REFER TO E-SERIES DRAWINGS.
	NEW SUSPENDED LED LINEAR LIGHTS. OWNER PROVIDED (EPC - PROP 2)
	EXIT SIGN BY E.C. REFER TO E-SERIES DRAWINGS
	SMOKE/ HEAT DETECTORS BY E.C. REFER TO E-SERIES DRAWINGS.
OS	OCCUPANCY SENSOR BY E.C. REFER TO E-SERIES DRAWINGS.
	CEILING GRILLE/ REGISTER BY M.C. REFER TO M-SERIES DRAWINGS.
	CEILING MOUNTED CABINET HEATER BY M.C. REFER TO M-SERIES DRAWINGS.

TYPICAL REFLECTED CEILING PLAN NOTES

1. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND / OR ELECTRICAL CEILING MOUNTED ITEMS. REFER TO M - SERIES AND E - SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2. ACOUSTICAL CEILINGS SHALL HAVE A FLAME SPREAD OF 25 OR LESS COMPLYING WITH ASTM E-84; SMOKE DEVELOPED RATING OF 50 OR LESS COMPLYING WITH PERFORMANCE REQUIREMENTS AND PHYSICAL CHARACTERISTICS OF THE SPECIFIED CEILINGS AS INDICATED IN THE REFLECTED CEILING PLAN. (ASTM E-1264)
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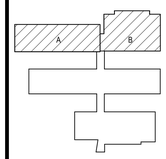
PAINT LEGEND

TYPE	DESCRIPTION
PNT1	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL PAINT BY SHERWIN WILLIAMS- FLAT ENAMEL COLOR: TRICORN BLACK SW 6258 (AUDITORIUM ROOF DECK, JOISTS, DUCTS/GRILLES, SUPPORTS, CONDUIT, UPPER WALL AREAS ABOVE SAWCUT)
PNT2	PROMAR 200 PAINT BY SHERWIN WILLIAMS- LATEX FLAT ENAMEL COLOR: PURE WHITE SW 7005 (AUDITORIUM GYP. BD. SOFFIT OVER PROSCENIUM)
PNT3	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL PAINT BY SHERWIN WILLIAMS- FLAT ENAMEL COLOR: PURE WHITE SW 7005 (CLASSROOM ROOF DECK, JOISTS, CONDUIT, UPPER WALL AREAS ABOVE B.O. JOIST)

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREAS A & B - REFLECTED CEILING PLAN

DRAWING BY: E.N./R.L.S.

CHECKED BY: R.L.S./J.B.R.

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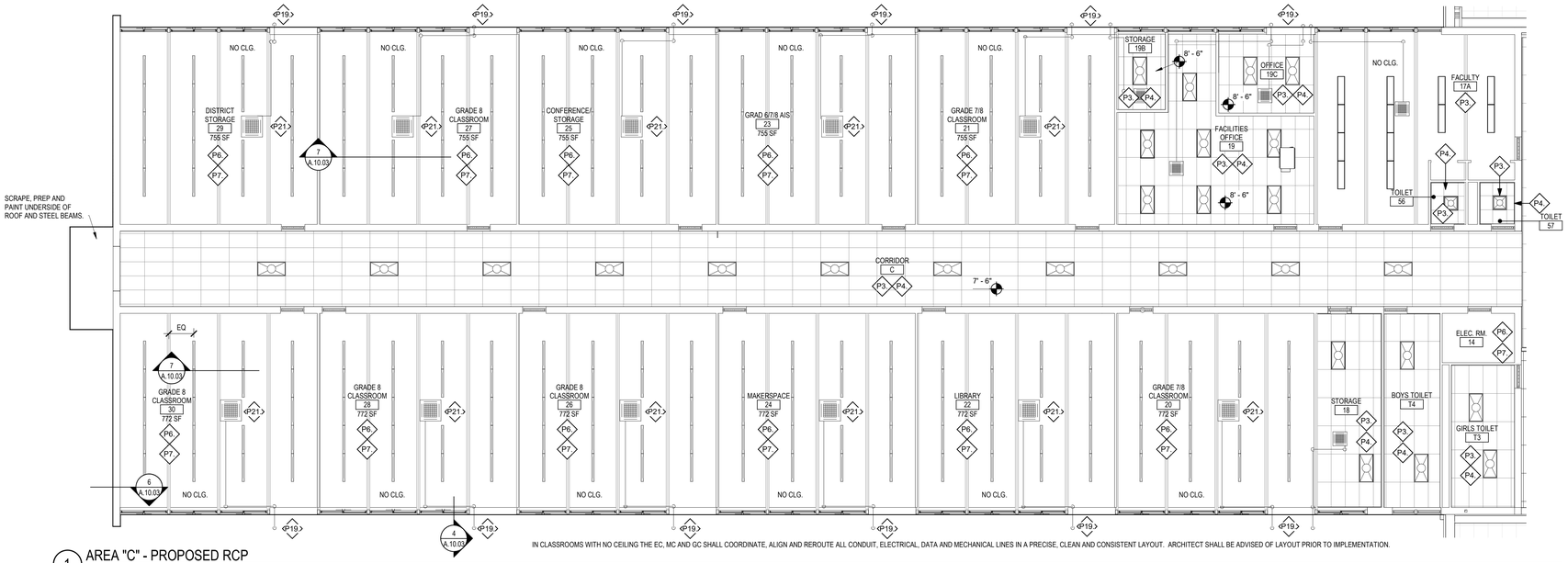
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREAS A & B - REFLECTED CEILING PLAN
SCALE:	AS NOTED
DATE:	6/24/26
BID PICK UP:	10/26/2026
FILE No.	25-273

A.10.01



1 AREA "C" - PROPOSED RCP

SCALE: 1/8" = 1'-0"

IN CLASSROOMS WITH NO CEILING THE EC, MC AND GC SHALL COORDINATE, ALIGN AND REROUTE ALL CONDUIT, ELECTRICAL, DATA AND MECHANICAL LINES IN A PRECISE, CLEAN AND CONSISTENT LAYOUT. ARCHITECT SHALL BE ADVISED OF LAYOUT PRIOR TO IMPLEMENTATION.

PROPOSED KEYNOTES

NUMBER	NOTE
P1.	GC SHALL USE SELF-LEVELING PRODUCT TO PROVIDE SUITABLE LEVEL FLOOR OVER EXISTING CONCRETE FLOOR SLAB. FLASH PATCH AND PREP SURFACE AS NEEDED TO RECEIVE NEW FINISH FLOORING.
P2.	GC TO PROVIDE FLASH PATCHING TO ACHIEVE REQUIRED SLOPE AS INDICATED.
P3.	EC TO REINSTALL EXISTING SALVAGED LIGHT FIXTURES ON/INTO NEW CEILING GRID SYSTEM IN THIER PREEXISTING LOCATIONS. COORDINATE WITH GC.
P4.	GC TO PROVIDE AND INSTALL NEW CEILING GRID AND TILE SYSTEM PER SPECIFICATIONS. COORDINATE LAYOUT WITH ELECTRICAL CONTRACTOR.
P5.	OWNER TO REINSTALL EXISTING STAGE CURTAINS AND ALL ASSOCIATED MATERIALS.
P6.	EC TO INSTALL OWNER-FURNISHED (EPC-PROP2) FIXTURES. EC SHALL COORDINATE DELIVERY, STORAGE AND INSTALLATION WITH THE GC. STORAGE LOCATION AND REQUIREMENTS TO DESIGNATED BY OWNER.
P7.	GC TO PREP PRIME AND PAINT (P3) ALL EXPOSED ELEMENTS THROUGHOUT AREAS INDICATED. GC SHALL ALSO PAINT (P3) WALL PORTIONS AS INDICATED IN DETAIL 3/B10.03.
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REV.	DATE	ITEM

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
BOND PHASE 1A
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUTCHESS COUNTY

DWG TITLE: AREAS C & D - REFLECTED CEILING PLAN

DRAWING BY: EN, RLS
CHECKED BY: RLS/JBR

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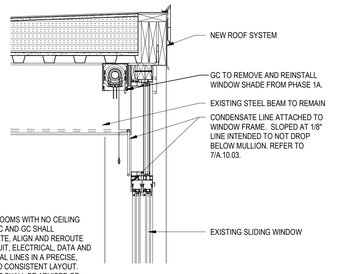
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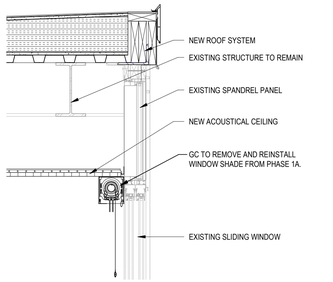
SED No.	13-22-01-04-0-008-016
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE 1A MILLBROOK MIDDLE SCHOOL
DWG TITLE	AREAS C & D - REFLECTED CEILING PLAN
SCALE:	AS NOTED
DATE:	1/21/2026
BID PICK UP:	10/26/2026
FILE No.	25-237

A.10.03



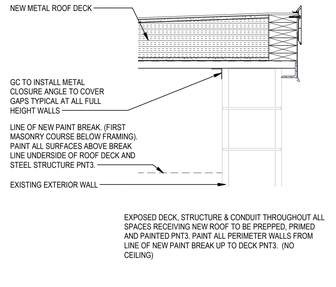
4 AREA "C" - TYPICAL SOFFIT DETAIL

SCALE: 1" = 1'-0"



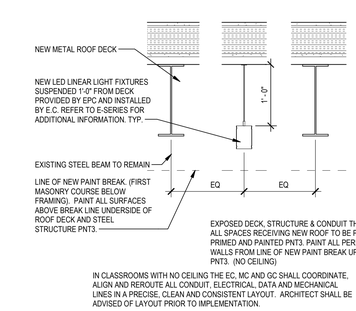
5 AREA "D" - TYPICAL SOFFIT DETAIL

SCALE: 1" = 1'-0"



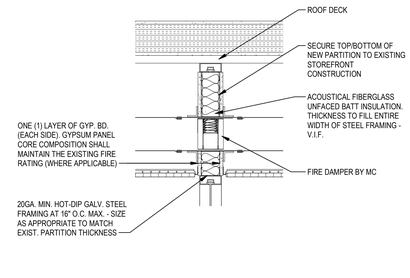
6 AREA "C" - EXTERIOR WALL SECTION

SCALE: 1" = 1'-0"



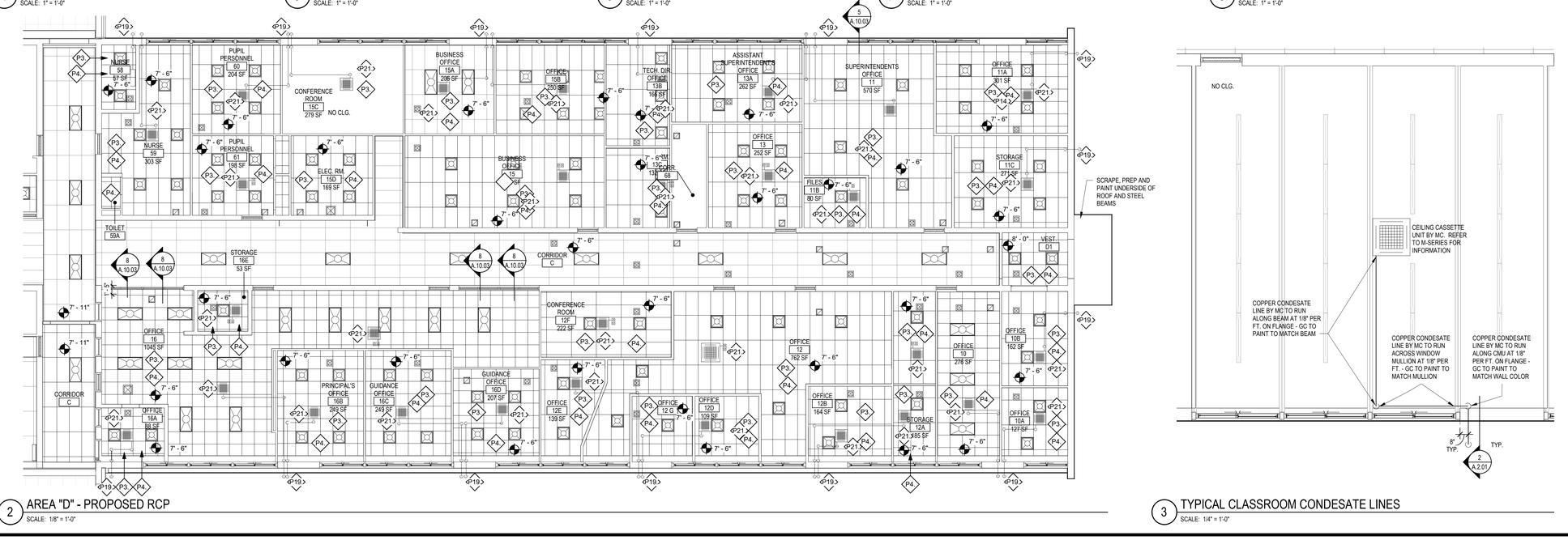
7 AREA "C" - NEW LIGHTING SECTION

SCALE: 1" = 1'-0"



8 AREA "D" - STOREFRONT MECH. PENETRATION

SCALE: 1" = 1'-0"

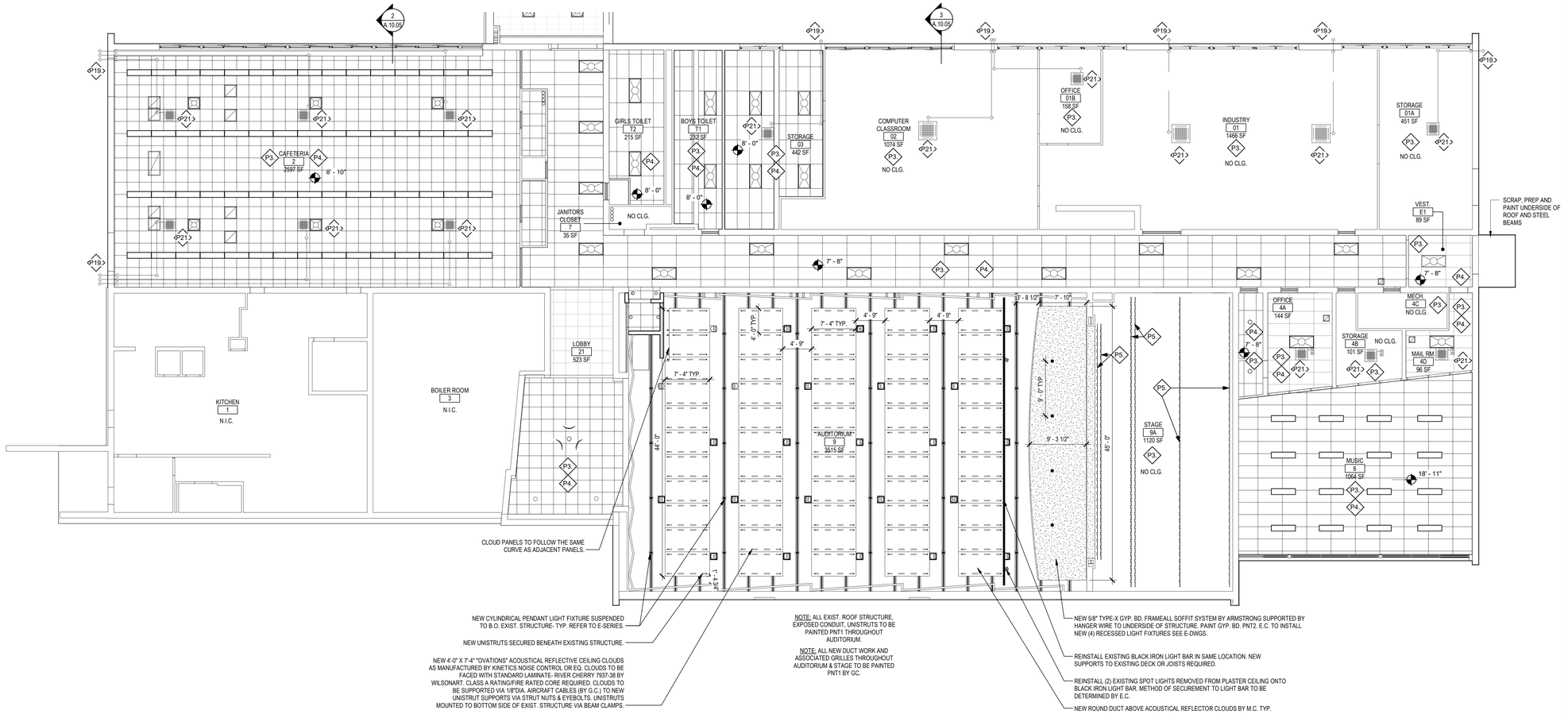


2 AREA "D" - PROPOSED RCP

SCALE: 1/8" = 1'-0"

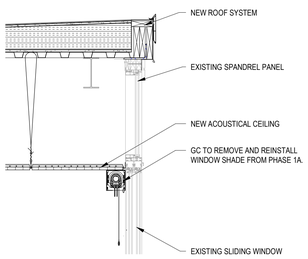
3 TYPICAL CLASSROOM CONDESATE LINES

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



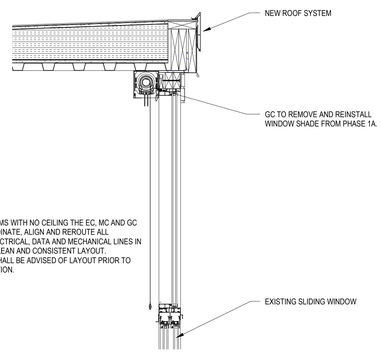
1 AREA "E" & "F" - PROPOSED RCP

SCALE: 1/8" = 1'-0"



2 AREA "E" - TYPICAL SOFFIT DETAIL

SCALE: 3/4" = 1'-0"



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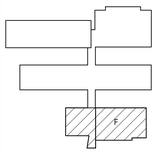
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REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

AREAS E & F - REFLECTED CEILING PLAN

DRAWING BY: EN/JB/RLS

CHECKED BY: RLS/JBR

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SED No. 13-22-01-04-0-008-017

DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT BOND PHASE 1A
CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE AREAS E & F - REFLECTED CEILING PLAN

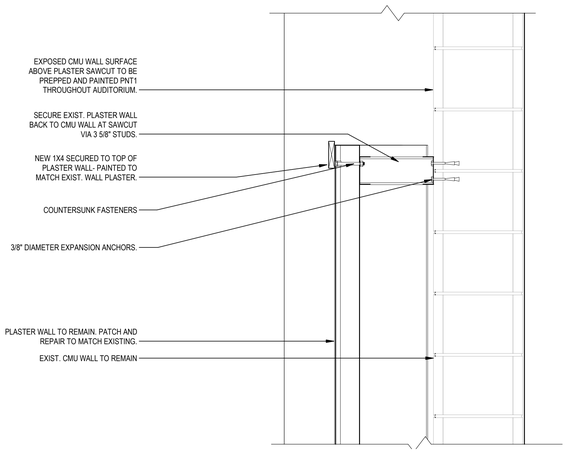
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DATE: 6/24/26

BID PICK UP: 10/26/2026

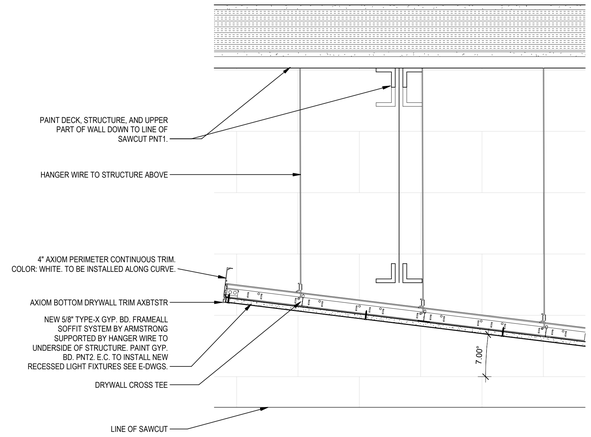
FILE No. 25-273

A.10.05



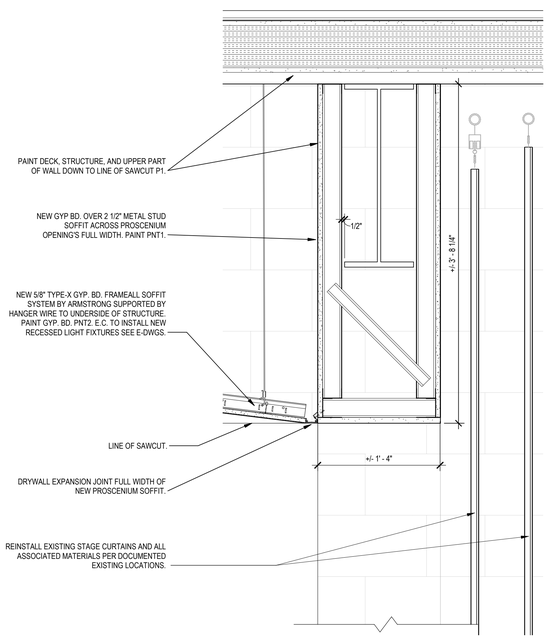
1 SECTION DETAIL AT AUDITORIUM PLASTER WALL SAWCUT

SCALE: 1 1/2" = 1'-0"



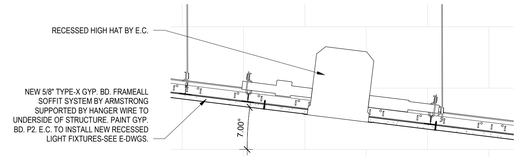
2 SECTION DETAIL AT NEW PROSCENIUM SOFFIT OVERHANG

SCALE: 1 1/2" = 1'-0"



3 SECTION DETAIL AT PROSCENIUM OPENING

SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL AT NEW PROSCENIUM SOFFIT OVERHANG-HIGH HAT

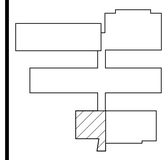
SCALE: 1 1/2" = 1'-0"

PAINT LEGEND	
TYPE	DESCRIPTION
PNT1	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL PAINT BY SHERWIN WILLIAMS- FLAT ENAMEL COLOR: TRICORN BLACK SW 6258 (AUDITORIUM ROOF DECK, JOISTS, DUCTS/GRILLES, SUPPORTS, CONDUIT, UPPER WALL AREAS ABOVE SAWCUT)
PNT2	PROMAR 200 PAINT BY SHERWIN WILLIAMS- LATEX FLAT ENAMEL COLOR: PURE WHITE SW 7005 (AUDITORIUM GYP. BD. SOFFIT OVER PROSCENIUM)
PNT3	PRO INDUSTRIAL WATERBORNE ACRYLIC DRYFALL PAINT BY SHERWIN WILLIAMS- FLAT ENAMEL COLOR: PURE WHITE SW 7005 (CLASSROOM ROOF DECK, JOISTS, CONDUIT, UPPER WALL AREAS ABOVE B.O. JOIST)

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
BOND PHASE 1A
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

ENLARGED AUDITORIUM DETAILS

DRAWING BY: J.B.

CHECKED BY: RLS/JBR

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DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT BOND PHASE 1A MILLBROOK MIDDLE SCHOOL

DWG TITLE ENLARGED AUDITORIUM DETAILS

SCALE: AS NOTED

DATE: 1/21/2026

BID PICK UP: 10/26/2026

FILE No. 25-237

A.11.01

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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 230680 FOR FURTHER DETAILS.
6. 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 CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
7. 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 CONTRACTOR'S COST.
8. CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
9. 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.
10. PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
11. 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.
12. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
13. PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
14. 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.
15. 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.
16. 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.
17. "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-13 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.
18. 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.
19. 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.
20. WHERE THE INSTALLATION OF MECHANICAL SYSTEMS REQUIRES REMOVAL / MODIFICATIONS TO EXISTING CEILINGS, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION / REMOVAL / REINSTALLATION OF CEILING MATERIALS AS A PART OF THEIR CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE. WORK TO INCLUDE RE-FRAMING GRIDS / CUTTING PLASTER OR SHEET ROCK CEILINGS WHEN REQUIRED FOR EQUIPMENT INSTALLATION. UPON COMPLETION OF ALL WORK, BUILDING CEILINGS SHALL BE RETURNED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO THE START OF WORK.
21. THERMOSTAT OR SENSOR LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
22. PROTECT/REMOVE ALL EXISTING SENSORS, WIRING OR PNEUMATICS THAT ARE TO REMAIN AND BE REUSED. REINSTALL ONCE FIELD CONDITIONS ALLOW. RELOCATE SENSORS AND EXTEND EXISTING WIRING, OR PNEUMATICS TO NEW LOCATION IF THE EXISTING LOCATION IS NOT SUITABLE FOR REINSTALLATION OF SENSOR.
23. UNITS THAT PROVIDE OUTDOOR AIR AND HAVE STEAM OR HOT WATER COILS SHALL BE PROVIDED WITH A FREEZE STAT AND TIED INTO THE BMS. IF NO BMS EXISTS THEN TIE INTO EQUIPMENT STARTER. WHEN THE FREEZE STAT TRIPS THE EXHAUST AIR AND OUTDOOR DAMPERS SHALL CLOSE RETURN AIR DAMPER SHALL OPEN AND THE HEATING VALVE SHALL FAIL OPEN.

ELECTRICAL WORK & TEMPERATURE CONTROL WIRING UNDER MECHANICAL CONTRACT

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, VFDS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTERS, VFDS & DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR POWER WIRING FROM DISCONNECT SWITCH TO STARTERS, VFDS AND DISCONNECTS & TO ALL EQUIPMENT LINE AND LOAD VOLTAGE LOADS.
2. POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ANY & ALL ELECTRICAL WORK.

FIRESTOPPING NOTES

1. 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.
2. MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
3. 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.
4. MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 230680 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
6. 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 EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

1. 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.
   - THERMOMETERS SHALL HAVE 9" SCALE W/ THE ABILITY TO ANGLE THE UNIT FOR BETTER VIEWING.

   THERMOMETERS TO BE "WINTERS" #TIM SERIES OR EQUAL, DUAL SCALE / LEAD FREE BRASS THERMOWELL.
2. 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.

   PRESSURE GAUGES SHALL BE FULL STAINLESS STEEL / LIQUID FILLED & SHALL BE 4" DIA. MINIMUM, W/ PRESSURE SNUBBER ("WINTERS" #PFQ SERIES OR EQUAL). PROVIDE GAUGES W/ PRESSURE RANGES APPROPRIATE FOR ACCURATE MEASUREMENT / READING OF THE GAUGE.

EQUIPMENT VENTING NOTES

1. 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" #HY-VENT OR EQUIVALENT.
2. 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.
3. 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.

DUCTWORK NOTES

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 233113, AND IN CONFORMANCE WITH SMACNA' SPECIFICATIONS.
2. IF A DUCT ELBOW IS SHOWN TO BE RADIUSED, THEN RADIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
3. 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 UNIT(S). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 233113 & 230713 FOR FURTHER INFORMATION.
4. 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 233113 FOR FURTHER INFORMATION.
5. 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.
6. MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 233113 FOR FURTHER INFORMATION.
7. ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.

TESTING and BALANCING NOTES

1. 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 230593 & 230580 FOR FURTHER DETAILS.
2. 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.
3. IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2db DIFFERENT THAN THAT ORIGINALLY 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.

BOILER ROOM and PIPING NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THE REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISES, DROPS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
2. ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
4. MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 230700 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS. UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
5. ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #'S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
6. MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
7. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 230900 FOR FURTHER DETAILS.

EQUIPMENT PRE-PURCHASING NOTES

1. THE OWNER (MILLBROOK SCHOOL DISTRICT) SHALL PRE-PURCHASE THE FOLLOWING TRANE EQUIPMENT & PROVIDE TO THE MECHANICAL CONTRACTOR (M.C.) TO INSTALL:
   - A) DEDICATED OUTDOOR AIR SYSTEM (DOAS) UNITS WITH ENERGY RECOVERY---VALENT.
   - B) ROOFTOP UNITS WITH ENERGY RECOVERY---VALENT
   - C) HOT WATER CABINET HEATERS---FORCEFLO (TRANE)
   - D) VARIABLE REFRIGERANT FLOW (VRF) SYSTEMS & ACCESSORIES---TRANE-MITSUBISHI
   - E) ALL EQUIPMENT NOTED ABOVE SHALL HAVE "FACTORY-CONTROLS" PROVIDED.

2. THE MECHANICAL CONTRACTOR (M.C.) SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL OTHER EQUIPMENT NOT LISTED IN NOTE #1 ABOVE OR AN APPROVED EQUIVALENT OF SPECIFIED EQUIPMENT.

3. THE MECHANICAL CONTRACTOR (M.C.) SHALL REFER TO THE PROJECT MANUAL FOR FURTHER DETAILS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   - A) CONTRACT SUMMARY(IES).
   - B) DETAILS COVERING OWNER-PURCHASED EQUIPMENT.
   - C) INFORMATION PERTAINING TO SHIPPING, HANDLING, UNLOADING, STORAGE, UNPACKING, & DELIVERY.

4. FOR ALL OF THE ABOVE MANUFACTURER'S LISTED IN NOTE #1, THE PLANS STATE THE MC IS TO FURNISH & INSTALL. HOWEVER, THE OWNER SHALL FURNISH ALL OF THE ABOVE ITEMS & THE MC SHALL BE RESPONSIBLE TO INSTALL, WHICH INCLUDES BUT IS NOT LIMITED TO FACTORY START-UP & COMMISSIONING.

BMS CONTROL SYSTEM WORK NOTES

THE OWNER (MILLBROOK SCHOOL DISTRICT) SHALL HIRE TRANE CONTROLS CONTRACTOR DIRECTLY TO WORK FOR THE DISTRICT TO FURNISH & INSTALL A COMPLETE WORKING BUILDING MANAGEMENT SYSTEM (BMS) IN IT ENTIRETY.

THE CONTROL SYSTEM SHALL BE A TRANE TRACER BUILDING MANAGEMENT SYSTEM (BMS). THE TRANE BMS CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND BUT NOT BE LIMITED TO THE FOLLOWING:

1. TRANE TRACER BMS SYSTEM
2. LOW VOLTAGE ELECTRICAL CONTROL POWER WIRING
3. SEQUENCES OF OPERATION FOR ALL EQUIPMENT NOTED IN PROJECT MANUAL.
4. VALVES, DAMPERS, WELLS SHALL BE FURNISHED BY TRANE CONTROLS & PROVIDED TO MC FOR MC TO INSTALL.

ALL PRE-PURCHASED EQUIPMENT SPECIFIED IN SCHEDULES SHALL HAVE FACTORY CONTROLS.

DROP CEILING REMOVAL/INSTALLATION NOTES

1. MC SHALL CAREFULLY REVIEW & EXAMINE ALL ARCHITECTURAL PLANS TO SEE WHICH EXISTING DROP CEILINGS SHALL EITHER BE REMOVED/REPLACED WITH NEW DROP CEILING OR BE REMOVED TO HAVE AN OPEN CEILING REMAIN. FOR THESE AREAS, THE MC SHALL COORDINATE THEIR DEMOLITION & NEW WORK WITH THE PROJECT GC.
2. FOR ALL AREAS THAT HAVE EXISTING DROP CEILINGS WHICH ARE TO REMAIN & ARE NOT PART OF ARCHITECTURAL DESIGN / GC WORKSCOPE, THE MC SHALL BE ENTIRELY RESPONSIBLE FOR REMOVAL & RE-INSTALLATION OF THE DROP CEILING & ASSOCIATED GRID. WHEN MC HAS FINISHED ALL WORK, MC SHALL RE-INSTALL THE CEILING & ASSOCIATED GRID. ANY TILES AND/OR GRID DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO REPLACE WITH AN EQUIVALENT AT THE MC'S OWN EXPENSE.

EXISTING PLUMBING SYSTEMS COORDINATION NOTES

1. ALL EXISTING PLUMBING SYSTEMS, PIPING, & EQUIPMENT SHALL REMAIN AND IS NOT PART OF ANY CONTRACT WORK. THEREFORE, THE MECHANICAL CONTRACTOR (MC) SHALL CAREFULLY COORDINATE HIS/HER NEW MECHANICAL WORK TO NOT DISTURB ANY EXISTING PLUMBING SYSTEMS IN AREA OF WORK.
2. FOR PIPING SHOP DRAWINGS, THE MC SHALL ALSO DRAW OUT ANY EXISTING PLUMBING SYSTEMS (PIPING, EQUIPMENT, ETC) WHICH HAS POTENTIAL TO BE CLOSE TO PROPOSED MECHANICAL SYSTEMS FOR COORDINATION PURPOSES.

DUCTWORK PIPING, EQUIPMENT SHOP DRAWING COORDINATION NOTES

THE MC SHALL BE RESPONSIBLE TO COORDINATE ALL OF THE NEW EQUIPMENT TO BE INSTALLED INTO SEVERAL SEPARATE SHOP DRAWINGS & ONE (1) COMBINED SHOP DRAWING SHOWING ITEM ITEMS COORDINATED WITH ONE ANOTHER. ITEMS TO COORDINATE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. NEW ROOFTOP EQUIPMENT
2. NEW HYDRONIC HEATING EQUIPMENT INSIDE SPACES
3. NEW DUCTWORK
4. NEW GLYCOL HOT WATER SUPPLY/RETURN PIPING
5. NEW HOT WATER SUPPLY/RETURN PIPING
6. NEW ELECTRICAL HEATING EQUIPMENT INSIDE SPACES
7. NEW VARIABLE REFRIGERANT FLOW (VRF) SYSTEM EEQUIPMENT INSIDE SPACES
8. NEW REFRIGERANT PIPING LINE SETS
9. NEW BRANCH BOXES & VALVE BOXES INSIDE SPACES
10. NEW CONDENSATE DRAIN PIPING
11. NEW CONDENSATE DISPOSAL PUMPS INSIDE SPACES

RESPONSIBILITY OF ALL MECHANICAL WORK FIRESTOPPING / PATCHING

1. FOR ALL NEW MECHANICAL WORK WHICH REQUIRES ANY PATCHING, THE MC SHALL BE RESPONSIBLE FOR HIRING A GC SUBCONTRACTOR TO PERFORM ALL PATCHING WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
   - A) PIPING PENETRATIONS THROUGH WALLS, FLOORS, ROOFING.
   - B) DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, ROOFING.

2. MC SHALL BE RESPONSIBLE TO DO ALL FIRE STOPPING TO ALL NEW PIPING & DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, & ROOFS.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
B.D.	BACKDRAFT DAMPER
CWS	COLD WATER SUPPLY
CFM	CUBIC FEET OF AIR PER MINUTE
D.	DEEP / DEPTH
DIA./~	DIAMETER
F&T	FLOAT & THERMOSTATIC
FPM	FEET PER MINUTE
FSD	FIRE / SMOKE DAMPER - DUCT MOUNTED
FLEX	FLEXIBLE
FO.	FLAT OVAL DUCTWORK
GAL.	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H.	HIGH
H.C.	HANDICAPPED
HWS	HEATING SYSTEM HOT WATER SUPPLY
HWR	HEATING SYSTEM HOT WATER RETURN
HP.	HORSEPOWER
I.D.	INSIDE DIAMETER
KW.	KILOWATT
L.	LONG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
MBH	BTU x 1,000
MFR.	MANUFACTURER
M.H.	MANHOLE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
G	NATURAL GAS
N.I.C.	NOT IN CONTRACT
No. / #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.S. & Y	OUTSIDE SCREW & YOKE
O.C.	ON CENTER
PE.	PNEUMATIC / ELECTRIC
PREFAB	PREFABRICATED
PRV	PRESSURE REDUCING VALVE
PSI.	POUNDS PER SQUARE INCH
R.A.	RETURN AIR
REQ'D.	REQUIRED
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SCH.	SCHEDULE
S.P.	STATIC PRESSURE
STD.	STANDARD
T	TEMPERATURE
TXV	THERMAL EXPANSION VALVE
TYP.	TYPICAL
VOL.	VOLUME
V.D.	VOLUME DAMPER
VOL.	VELOCITY
VFD	VARIABLE FRE

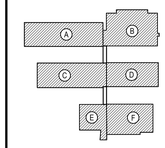
VENTILATION SCHEDULE

Room Number	Floor	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	Exhaust Air CFM Required	FINAL TOTAL FRESH AIR PROVIDED (CFM)	PROPOSED SYSTEM
MIDDLE WING-GRADE 8 CLASSROOM 30	1ST	Classroom (age 9 plus)	35	10	0.12	0	856	30	403	0.8	504	0	505	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-GRADE 8 CLASSROOM 28	1ST	Classroom (age 9 plus)	35	10	0.12	0	820	29	389	0.8	487	0	490	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-GRADE 8 CLASSROOM 26	1ST	Classroom (age 9 plus)	35	10	0.12	0	810	29	388	0.8	485	0	485	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-MAKERSPACE 24	1ST	Classroom (age 9 plus)	35	10	0.12	0	805	29	387	0.8	484	0	485	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-LIBRARY 22	1ST	Libraries	10	5	0.12	0	805	9	142	0.8	178	0	180	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-STORAGE 18	1ST	Storage room	0	0	0.12	0	215	0	26	0.8	33	0	35	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-GRADE 7/8 CLASSROOM 20	1ST	Classroom (age 9 plus)	35	10	0.12	0	795	28	376	0.8	470	0	470	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-DISTRICT STORAGE 29 (FUTURE CLASSROOM)	1ST	Classroom (age 9 plus)	35	10	0.12	0	856	30	403	0.8	504	0	505	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-GRADE 8 CLASSROOM 27	1ST	Classroom (age 9 plus)	35	10	0.12	0	820	29	389	0.8	487	0	490	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-CONFERENCE/STORAGE 25	1ST	Conference room	50	5	0.06	0	810	41	254	0.8	318	0	320	DOAS-MIDDLE WING-CLASSROOMS-A
MIDDLE WING-GRADE 6/7/8 AIS CLASSROOM 23	1ST	Classroom (age 9 plus)	35	10	0.12	0	805	29	387	0.8	484	0	485	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-GRADE 7/8 CLASSROOM 21	1ST	Classroom (age 9 plus)	35	10	0.12	0	805	29	387	0.8	484	0	485	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-OFFICE 19	1ST	Classroom (age 9 plus)	35	10	0.12	0	500	18	240	0.8	300	0	300	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-STORAGE 19B	1ST	Classroom (age 9 plus)	35	10	0.12	0	110	4	54	0.8	68	0	70	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-OFFICE 19C	1ST	Classroom (age 9 plus)	35	10	0.12	0	150	6	78	0.8	98	0	100	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-FACULTY ROOM 17A	1ST	Dining room	70	7.5	0.18	0	715	51	512	0.8	640	0	640	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-CLASSROOMS CORRIDOR	1ST	Corridor	0	0	0.06	0	2735	0	165	0.8	207	0	210	DOAS-MIDDLE WING-CLASSROOMS-B
MIDDLE WING-NURSE 59	1ST	Office space	5	5	0.06	0	300	2	28	0.8	35	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-NURSE 58	1ST	Office space	5	5	0.06	0	65	1	9	0.8	12	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-PUPIL PERSONNEL 60	1ST	Office space	5	5	0.06	0	220	2	24	0.8	30	0	30	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-PUPIL PERSONNEL 61	1ST	Office space	5	5	0.06	0	180	1	16	0.8	20	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-CONFERENCE ROOM 15C	1ST	Conference room	50	5	0.06	0	335	17	106	0.8	133	0	135	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-ELECTRICAL ROOM 15D	1ST	Telephone/data entry	60	5	0.06	0	165	10	60	0.8	75	0	75	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-BUSINESS OFFICE 15	1ST	Office space	5	5	0.06	0	500	3	45	0.8	57	0	60	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-BUSINESS OFFICE 15B	1ST	Office space	5	5	0.06	0	225	2	24	0.8	30	0	30	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-BUSINESS OFFICE 15B	1ST	Office space	5	5	0.06	0	285	2	28	0.8	35	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-TECH DIR. OFFICE 13B	1ST	Office space	5	5	0.06	0	185	1	17	0.8	22	0	25	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-MAIL ROOM 13C	1ST	Office space	5	5	0.06	0	135	1	14	0.8	18	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-SUPERINTENDANT OFFICE 13A	1ST	Office space	5	5	0.06	0	310	2	29	0.8	37	0	40	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-SUPERINTENDANT SECRETARY 13	1ST	Office space	5	5	0.06	0	305	2	29	0.8	37	0	40	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-FILES 11B	1ST	Office space	5	5	0.06	0	90	1	11	0.8	14	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-SUPER'S OFFICE 11	1ST	Office space	5	5	0.06	0	540	3	48	0.8	60	0	60	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 11A	1ST	Office space	5	5	0.06	0	250	2	25	0.8	32	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-STORAGE 11C	1ST	Storage room	0	0	0.12	0	220	0	27	0.8	34	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 16A	1ST	Office space	5	5	0.06	0	145	1	14	0.8	18	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 16	1ST	Office space	5	5	0.06	0	1120	6	98	0.8	123	0	125	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-STORAGE 16E	1ST	Office space	5	5	0.06	0	55	1	9	0.8	12	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-PRINCIPAL'S OFFICE 16B	1ST	Office space	5	5	0.06	0	260	2	26	0.8	33	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-GUIDANCE OFFICE 16C	1ST	Office space	5	5	0.06	0	265	2	26	0.8	33	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-GUIDANCE OFFICE16D	1ST	Office space	5	5	0.06	0	240	2	25	0.8	32	0	35	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12F	1ST	Office space	5	5	0.06	0	165	1	15	0.8	19	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12E	1ST	Office space	5	5	0.06	0	155	1	15	0.8	19	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12	1ST	Office space	5	5	0.06	0	910	5	80	0.8	100	0	100	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12D	1ST	Office space	5	5	0.06	0	165	1	15	0.8	19	0	20	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12B	1ST	Office space	5	5	0.06	0	110	1	12	0.8	15	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-STORAGE 12A	1ST	Storage room	0	0	0.12	0	100	0	12	0.8	15	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 12C	1ST	Office space	5	5	0.06	0	95	1	11	0.8	14	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 10	1ST	Office space	5	5	0.06	0	310	2	29	0.8	37	0	40	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 10B	1ST	Office space	5	5	0.06	0	185	1	17	0.8	22	0	25	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICE 10A	1ST	Office space	5	5	0.06	0	160	1	15	0.8	19	0	15	DOAS-MIDDLE WING-OFFICE SUITE
MIDDLE WING-OFFICES CORRIDOR	1ST	Corridor	0	0	0.06	0	1300	0	78	0.8	98	0	100	DOAS-MIDDLE WING-OFFICE SUITE
GYM WING-GRADE 7 CLASSROOM 59	1ST	Classroom (age 9 plus)	35	10	0.12	0	830	30	400	0.8	500	0	500	DOAS-GYM WING-CLASSROOMS-A
GYM WING-READING CLASSROOM 57	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 6/7/8 STUDY HALL 55	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 6 CLASSROOM 53	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 6 CLASSROOM 51	1ST	Classroom (age 9 plus)	35	10	0.12	0	790	28	375	0.8	469	0	470	DOAS-GYM WING-CLASSROOMS-B
GYM WING-ART 49	1ST	Art classroom	20	10	0.18	0.7	780	16	301	0.8	377	546	930	DOAS-GYM WING-CLASSROOMS-B
GYM WING-ART 47	1ST	Art classroom	20	10	0.18	0.7	910	19	354	0.8	443	637	1085	DOAS-GYM WING-CLASSROOMS-B
GYM WING-KILN 47B	1ST	Storage room	0	0	0.12	0	90	0	11	0.8	14	0	15	DOAS-GYM WING-CLASSROOMS-B
GYM WING-GRADE 7 CLASSROOM 58	1ST	Classroom (age 9 plus)	35	10	0.12	0	830	30	400	0.8	500	0	500	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 7 CLASSROOM 56	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-HEALTH CLASSROOM 54	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 7 CLASSROOM 52	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-A
GYM WING-GRADE 6 CLASSROOM 50	1ST	Classroom (age 9 plus)	35	10	0.12	0	790	28	375	0.8	469	0	470	DOAS-GYM WING-CLASSROOMS-B
GYM WING-GRADE 6 CLASSROOM 48	1ST	Classroom (age 9 plus)	35	10	0.12	0	780	28	374	0.8	468	0	470	DOAS-GYM WING-CLASSROOMS-B
GYM WING-HEART LAB 46	1ST	Classroom (age 9 plus)	35	10	0.12	0	930	33	442	0.8	553	0	555	DOAS-GYM WING-CLASSROOMS-B
GYM WING-CLASSROOM CORRIDOR	1ST	Corridor	0	0	0.06	0	2475	0	149	0.8	187	0	190	DOAS-GYM WING-CLASSROOMS-B
GYM WING-STORAGE 42	1ST	Storage room	0	0	0.12	0	425	0	51	0.8	64	0	70	DOAS-GYM WING-CLASSROOMS-B
GYM WING-LIFE SCIENCES 45	1ST	Science Laboratories	25	10	0.18	1	1330	34	580	0.8	725	1330	2055	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-STORAGE/PREP 45B	1ST	Science Laboratories	25	10	0.18	1	85	3	46	0.8	58	85	145	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-HOME ECONOMICS 44	1ST	Classroom (age 9 plus)	35	10	0.12	0	950	34	454	0.8	568	0	570	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-LAUNDRY 44B	1ST	Coin-operated laundries	20	7.5	0.12	0	175	4	51	0.8	64	0	65	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-STORAGE/PREP 41B	1ST	Science Laboratories	25	10	0.18	1	175	5	82	0.8	103	175	278	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-STORAGE 38	1ST	Storage room	0	0	0.12	0	275	0	33	0.8	42	0	45	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-GIRL'S LOCKER ROOM 40	1ST	Sports locker room	0	0	0	0.5	1090	0	0	0.8	0	545	545	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-STORAGE 40D	1ST	Storage room	0	0	0.12	0	120	0	15	0.8	19	0	20	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-GYM STORAGE 40C	1ST	Storage room	0	0	0.12	0	160	0	20	0.8	25	0	25	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-GYM PE OFFICE 40B STORAGE	1ST	Storage room	0	0	0.12	0	30	0	4	0.8	5	0	10	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING- PE OFFICE 40B	1ST	Office space	5	5	0.06	0	130	1	13	0.8	17	0	175	DOAS-GYM WING-LOCKER SCIENCE SUITE-A
GYM WING-GYM CORRIDOR	1ST	Corridor	0	0	0.06	0	1810	0	109	0.8	137	0	140	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-BOY'S LOCKER ROOM 37	1ST	Sports locker room	0	0	0	0.5	980	0	0	0.8	0	490	490	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-GYM STORAGE 37C	1ST	Storage room	0	0	0.12	0	165	0	20	0.8	25	0	25	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-STORAGE 37D	1ST	Storage room	0	0	0.12	0	90	0	11	0.8	14	0	15	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-PE OFFICE 37B	1ST	Storage room	0	0	0.12	0	30	0	4	0.8	5	0	10	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-PE OFFICE 37B STORAGE	1ST	Office space	5	5	0.06	0	205	2	23	0.8	29	0	175	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
GYM WING-SCIENCE 41	1ST	Science Laboratories	25	10	0.18	1	1085	28	476	0.8	595	1085	1680	DOAS-GYM WING-LOCKER SCIENCE SUITE-B
AUDITORIUM WING-CAFETERIA 2	1ST	Cafeteria, fast food	100	7.5	0.18	0	2640	264	2456	0.8	3070	0	3070	DOAS-AUDITORIUM WING-CAFETERIA
AUDITORIUM WING-STORAGE 03	1ST	Storage room	0	0	0.12	0	370	0	45	0.8	57	0	60	DOAS-AUDITORIUM WING-CLASSROOMS
AUDITORIUM WING-COMPUTER CLASSROOM 02	1ST	Computer lab	25	10	0.12	0	1125	29	425	0.8	532	0	535	DOAS-AUDITORIUM WING-CLASSROOMS
AUDITORIUM WING-OFFICE 01B	1ST	Office space	5	5	0.06	0	100	1	11	0.8	14	0	15	DOAS-AUDITORIUM WING-CLASSROOMS
AUDITORIUM WING-INDUSTRY 01	1ST	Wood/metal shop	20	10	0.18	0.5	1530	31	586	0.8	733	765	1500	DOAS-AUDITORIUM WING-CLASSROOMS
AUDITORIUM WING-STORAGE 01A	1ST	Storage room	0	0	0.12	0	410	0	50	0.8	63	0	65	DOAS-AUDITORIUM WING-CLASSROOMS
AUDITORIUM WING-AUDITORIUM 9	1ST	Auditorium	150	5	0.06	0	3540	531	2868	0.8	3585	0	3585	RTU-AUDITORIUM
AUDITORIUM WING-STAGE 7	1ST	Stages OR Studio	70	10	0.06	0	1350	95	1031	0.8	1289	0	1290	RTU-AUDITORIUM
AUDITORIUM WING-MUSIC 6	1ST	Multiuse assembly	100	7.5	0.06	0	1090	109	883	0.8	1104	0	1105	RTU-MUSIC ROOM
MAIN GYMNASIUM 39-SPECTATOR TOTAL	1ST	Spectator area	150	7.5	0.06	0	952	143	1130	0.8	1413	0	1415	RTU-GYMNASIUM-A, B
MAIN GYMNASIUM 39-PLAY AREA TOTAL	1ST	Gym, stadium, arena (play area)	7	20	0.18	0	5518	39	1774	0.8	2218	0	2220	RTU-GYMNASIUM-A, B
MUSIC SUITE-OFFICE 4A	1ST	Multiuse assembly	100	7.5	0.06	0	170	17	138	0.8	173	0	175	DOAS-AUDITORIUM WING-MUSIC SUITE
MUSIC SUITE-STORAGE 4B	1ST	Multiuse assembly	100	7.5	0.06	0	110	11	90	0.8	113	0	115	DOAS-AUDITORIUM WING-MUSIC SUITE
MUSIC SUITE-MAIL ROOM 4D	1ST	Multiuse assembly	100	7.5	0.06	0	100	10	81	0.8	102	0	105	DOAS-AUDITORIUM WING-MUSIC SUITE
AUDITORIUM WING-AUDITORIUM CORRIDOR	1ST	Corridor	0	0	0.06	0	1555	0	94	0.8	118	0	120	DOAS-AUDITORIUM WING-MUSIC SUITE
BASEMENT LEVEL-AUDITORIUM WING-STORAGE 4E	1ST	Storage room	0	0	0.12	0	355	0	43	0.8	54	0	55	DOAS-AUDITORIUM WING-MUSIC SUITE
BASEMENT LEVEL-AUDITORIUM WING-OFFICE 4F	1ST	Multiuse assembly	100	7.5	0.06	0	130	13	106	0.8	133	0	135	DOAS-AUDITORIUM WING-MUSIC SUITE
LOBBY 39	1ST	Lobby	150	5	0.06	0	535	81	438	0.8	548	0	535	RTU-LOBBY

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
VENTILATION SCHEDULES

DRAWING BY: U.F.

CHECK BY: U.F.

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: VENTILATION SCHEDULES

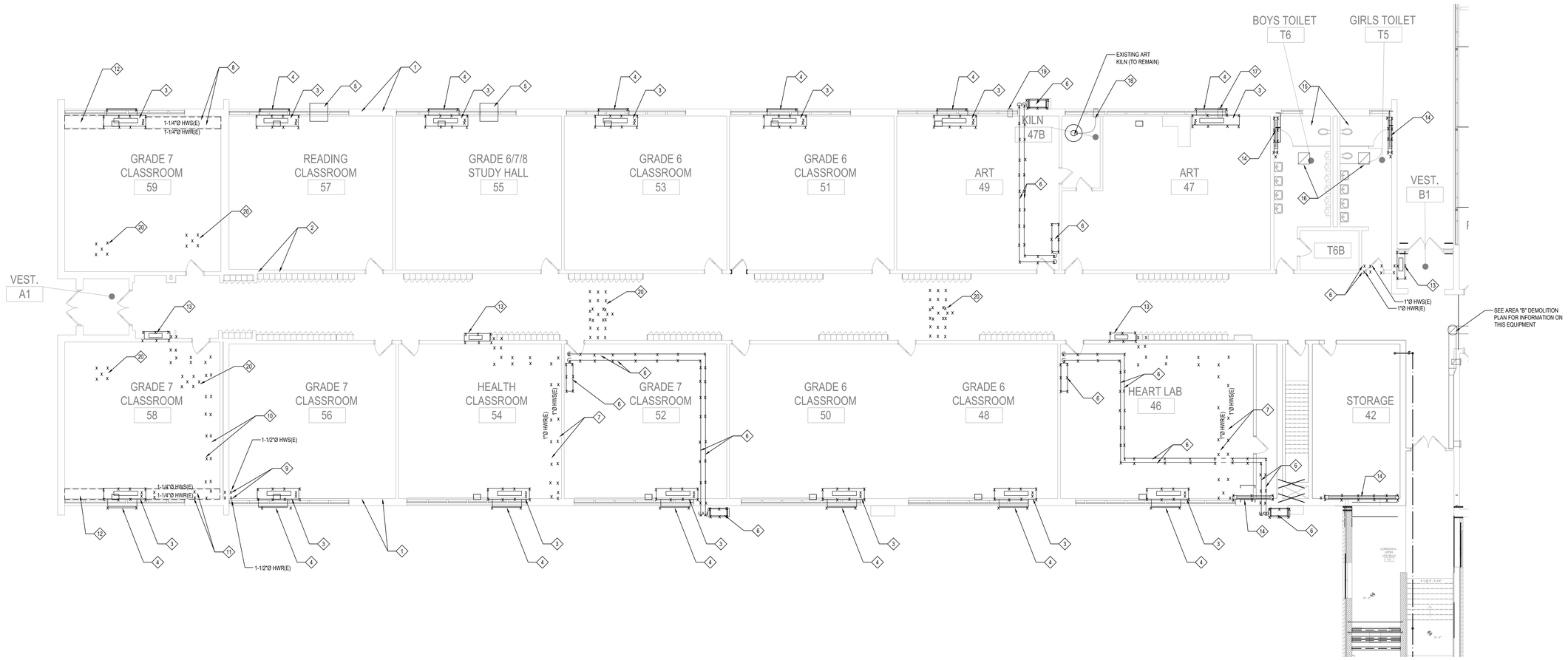
SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M0.02



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. CLASSROOM CEILING STRUCTURE—EXISTING 16" DEEP BAR JOISTS SPACED 3'-8" ON CENTER. BOTTOM OF BAR JOISTS IS 9'-1" FROM FINISHED FLOOR. EXISTING DROP CEILING IS 9'-0" FROM FINISHED FLOOR OF CLASSROOM.
2. CORRIDOR CEILING STRUCTURE—EXISTING 8" DEEP BAR JOISTS SPACED 3'-8" ON CENTER. BOTTOM OF BAR JOISTS IS 17" TO TOP OF DROP CEILING. EXISTING DROP CEILING IS 8'-6" TO FINISHED FLOOR OF CORRIDOR.
3. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
4. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
5. MC SHALL DEMO & REMOVE EXISTING WINDOW AIR CONDITIONING UNITS. MC TO HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
6. MC SHALL DEMO & REMOVE EXISTING AC SPLIT SYSTEM, WHICH CONSISTS OF THE FOLLOWING:
   A) EXISTING OUTDOOR CONDENSING UNIT (WALL MOUNTED OR ROOF MOUNTED).
   B) EXISTING REFRIGERANT PIPING LINE SETS AS SHOWN.
   C) EXISTING INDOOR EVAPORATOR UNIT AS SHOWN.
7. MC SHALL DEMO & REMOVE EXISTING 1"Ø HWS/HWR LINES RUNNING IN CEILING AS SHOWN & SHALL CUT BACK & CAP BOTH LINES BELOW FINISHED FLOOR & PERMANENTLY ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
8. MC SHALL DEMO & REMOVE EXISTING 1-1/4"Ø HWS/HWR LINES RUNNING IN CEILING AS SHOWN & SHALL CUT BACK & CAP BOTH LINES BELOW FINISHED FLOOR & PERMANENTLY ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
9. MC SHALL DEMO & REMOVE EXISTING 1-1/2"Ø HWS/HWR LINES RUNNING IN CEILING AS SHOWN & SHALL CUT BACK & CAP BOTH LINES BELOW FINISHED FLOOR & PERMANENTLY ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
10. MC SHALL DEMO & REMOVE EXISTING 1"Ø HWS/HWR LINES RUNNING IN CEILING AS SHOWN.
11. MC SHALL DEMO & REMOVE EXISTING 1-1/4"Ø HWS/HWR LINES RUNNING IN SPACE ALONG EXTERIOR WALL AS SHOWN.
12. EXISTING CASEWORK/CABINETRY TO REMAIN.
13. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
14. MC SHALL DEMO & REMOVE EXISTING HOT WATER FINNED TUBE & ASSOCIATED ENCLOSURE FOR FINNED TUBE AS SHOWN. MC SHALL CUT BACK & CAP EXISTING 1-1/4"Ø HWS/HWR PIPING BELOW FINISHED FLOOR & PERMANENTLY ABANDON. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
15. EXISTING CEILING IS A HARD PLASTER CEILING WHICH IS TO REMAIN.
16. EXISTING SURFACE-MOUNTED CEILING EXHAUST GRILLES FOR EXISTING TOILET EXHAUST SYSTEM TO REMAIN.
17. EXISTING 10"Ø ROUND EXHAUST GRILLE & DUCT/DUCT SLEEVE TO REMAIN (NOT IN CONTRACT)
18. EXISTING 10X10 EXHAUST GRILLE & DUCT/DUCT SLEEVE FOR EXISTING KILN EXHAUST SYSTEM TO REMAIN (NOT IN CONTRACT)
19. EXISTING 10X10 EXHAUST GRILLE & DUCT/DUCT SLEEVE TO REMAIN (NOT IN CONTRACT)
20. MC SHALL DEMO & REMOVE EXISTING RELIEF AIR SYSTEM DUCTWORK & ASSOCIATED GRILLE AS SHOWN. MC SHALL COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. MC SHALL BE REQUIRED TO COORDINATE UNIT VENTILATOR REMOVAL WITH PROJECT GC PRESENT.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

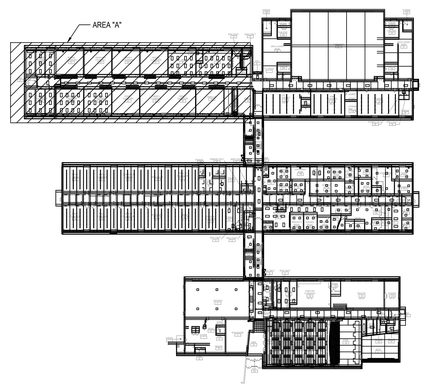
EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.



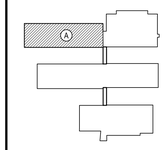
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

MECHANICAL
AREA "A"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

PROJECT

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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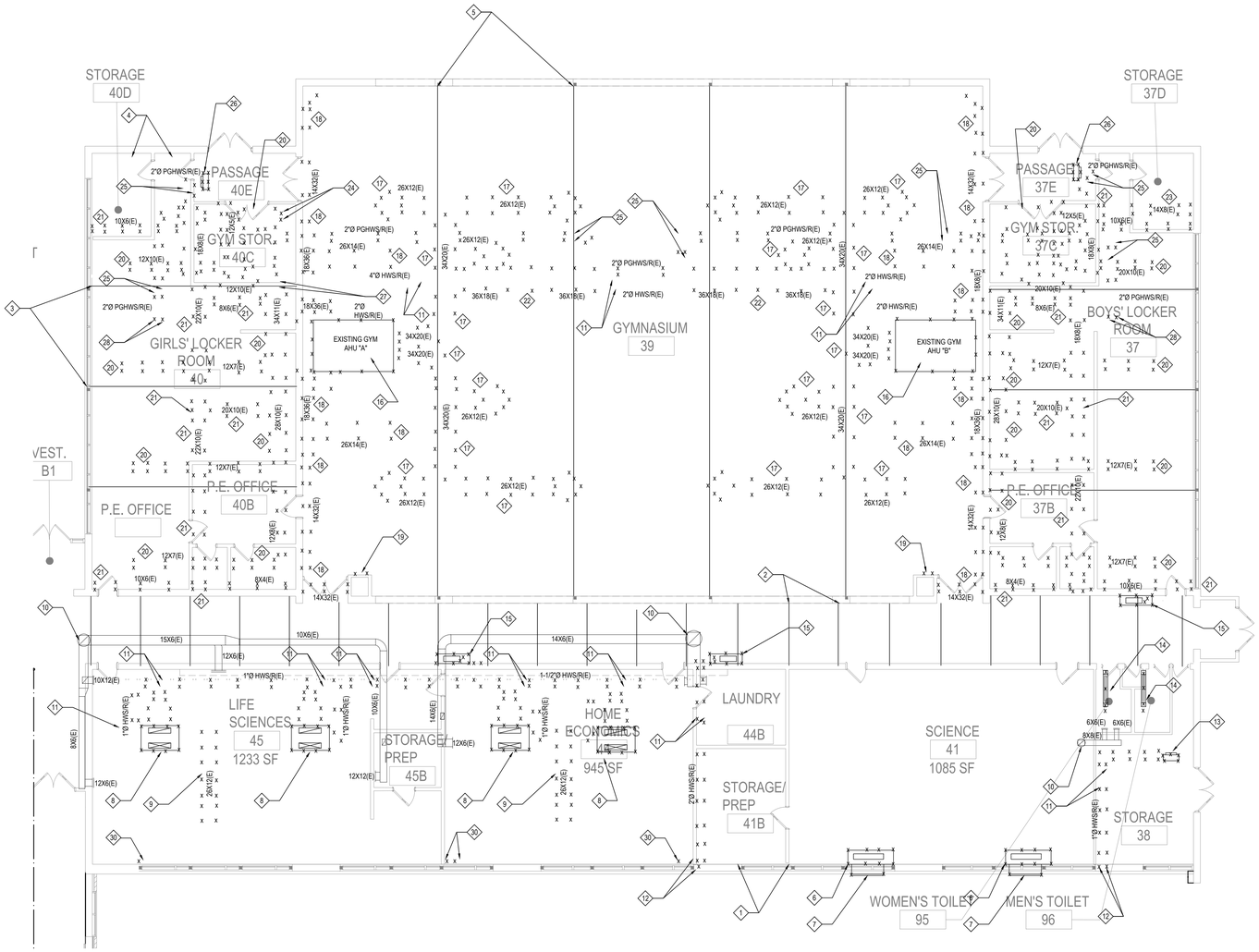
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.01



FIRST FLOOR -MIDDLE SCHOOL- AREA "B" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "B" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. CLASSROOM, STORAGE ROOMS, LAUNDRY ROOMS CEILING STRUCTURE---EXISTING 14" STEEL I-BEAMS SPACED 7'-0" ON CENTER. BOTTOM OF BEAMS IS 8'-1" FROM FINISHED FLOOR. EXISTING DROP CEILING IS 8'-0" FROM FINISHED FLOOR OF CLASSROOM. PROPOSED CEILING IS TO BE OPEN CEILING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
2. CORRIDOR CEILING STRUCTURE---EXISTING 8" DEEP STEEL I-BEAMS SPACED 7'-0" ON CENTER, BOTTOM OF BAR JOISTS IS 8'-7" TO FINISHED FLOOR. EXISTING DROP CEILING IS 8'-6". PROPOSED CEILING IS TO BE LOWERED. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
3. LOCKER ROOMS STEEL BEAM CEILING STRUCTURE---EXISTING 16" STEEL I-BEAMS SPACED APPROXIMATELY 14-0" ON CENTER. EXISTING CEILING IS AN OPEN CEILING & SHALL REMAIN OPEN.
4. LOCKER ROOMS BAR JOISTS CEILING STRUCTURE---EXISTING 8" DEEP BAR JOISTS SPACED APPROXIMATELY 5-8" ON CENTER. EXISTING CEILING IS AN OPEN CEILING & SHALL REMAIN OPEN.
5. GYMNASIUM CEILING STRUCTURE---EXISTING DEEP STEEL TRUSSES FOR PITCHED ROOF THAT ARE APPROXIMATELY 19-2" ON CENTER. EXISTING CEILING IS AN OPEN CEILING & SHALL REMAIN OPEN. EXISTING DUCTWORK RUNS THROUGH WEBBING OF TRUSSES. PROPOSED DUCTWORK SHALL RUN THROUGH WEBBING OF TRUSSES.
6. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
7. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
8. MC SHALL DEMO & REMOVE EXISTING CEILING MOUNTED/RECESSED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING CONNECTING TO EQUIPMENT. MC TO ALSO DEMO & REMOVE ASSOCIATED/CONNECTED FRESH AIR DUCTWORK SHOWN WITH EQUIPMENT. MC TO COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR DEMOLITION WORK ON ROOF.
9. MC SHALL DEMO & REMOVE EXISTING CEILING RELIEF AIR DUCTWORK/GRILLE SYSTEM. MC TO COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR DEMOLITION WORK ON ROOF.
10. EXISTING FAN POWERED EXHAUST SYSTEM SHOWN TO REMAIN IN PLACE (NOT IN CONTRACT)
11. MC SHALL DEMO & REMOVE EXISTING HOT WATER SUPPLY & RETURN PIPING RUNNING IN SPACE.
12. MC SHALL DEMO & REMOVE EXISTING HOT WATER SUPPLY & RETURN PIPING MAINS COMING UP FROM FLOOR & SHALL CUT BACK BOTH LINES & PERMANENTLY CAP & ABANDON THEM BELOW BELOW FINISHED FLOOR. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
13. MC SHALL DEMO & REMOVE EXISTING HOT WATER UNIT HEATER SHOWN & REMOVE CONNECTED HWS/HWR LINES ASSOCIATED WITH EQUIPMENT.
14. MC SHALL DEMO & REMOVE EXISTING HOT WATER FINNED TUBE & ASSOCIATED ENCLOSURE FOR FINNED TUBE AS SHOWN. MC SHALL CUT BACK & CAP EXISTING 1-1/4"Ø HWS/HWR PIPING BELOW FINISHED FLOOR & PERMANENTLY ABANDON. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
15. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
16. MC SHALL DEMO & REMOVE EXISTING HUNG INDOOR GYMNASIUM HEATING-VENTILATION (H-V) UNIT SHOWN. MC TO HAVE EC DISCONNECT POWER FOR UNIT BEFORE START OF DEMOLITION WORK.
17. MC SHALL DEMO & REMOVE EXISTING HUNG INDOOR GYMNASIUM HEATING-VENTILATION (H-V) UNIT SUPPLY AIR DUCTWORK SHOWN. REMOVAL INCLUDES, BUT IS NOT LIMITED TO SUPPLY AIR OUTLETS, VOLUME DAMPERS, ETC.
18. MC SHALL DEMO & REMOVE EXISTING HUNG INDOOR GYMNASIUM HEATING-VENTILATION (H-V) UNIT RETURN AIR DUCTWORK SHOWN. REMOVAL INCLUDES, BUT IS NOT LIMITED TO RETURN AIR OUTLETS, VOLUME DAMPERS, ETC.
19. MC SHALL ABANDON EXISTING RETURN DUCTWORK WITHIN DUCT SHAFT & REMOVE EXISTING RETURN GRILLE. MC TO THEN FURNISH & INSTALL A 16 GAUGE STEEL BLANKING PLATE WHICH SHALL BE PAINTED BY GC TO COLOR CHOSEN BY ARCHITECT OF RECORD.
20. MC SHALL DEMO & REMOVE EXISTING ROOFTOP LOCKER ROOM HEATING-VENTILATION (H-V) UNIT SUPPLY AIR DUCTWORK SHOWN IN SPACE. REMOVAL INCLUDES, BUT IS NOT LIMITED TO SUPPLY AIR OUTLETS, VOLUME DAMPERS, ETC. MC TO HAVE PROJECT GC PRESENT WHEN REMOVING DUCTWORK GOING UP THROUGH ROOF. UNIT IS SITUATED ON ROOFTOP. REFER TO ROOF DEMOLITION PLAN FOR FURTHER DEMOLITION SCOPE.
21. MC SHALL DEMO & REMOVE EXISTING ROOFTOP LOCKER ROOM HEATING-VENTILATION (H-V) UNIT RETURN AIR DUCTWORK SHOWN IN SPACE. REMOVAL INCLUDES, BUT IS NOT LIMITED TO RETURN AIR OUTLETS, VOLUME DAMPERS, ETC. MC TO HAVE PROJECT GC PRESENT WHEN REMOVING DUCTWORK GOING UP THROUGH ROOF. UNIT IS SITUATED ON ROOFTOP. REFER TO ROOF DEMOLITION PLAN FOR FURTHER DEMOLITION SCOPE.
22. MC SHALL DEMO & REMOVE EXISTING RELIEF EXHAUST DUCTWORK SYSTEM IN GYMNASIUM AS SHOWN. MC TO HAVE PROJECT GC PRESENT WHEN REMOVING DUCTWORK GOING UP THROUGH ROOF. REFER TO ROOF DEMOLITION PLAN FOR FURTHER DEMOLITION SCOPE.
23. MC SHALL DEMO & REMOVE EXISTING RELIEF EXHAUST DUCTWORK SYSTEM IN LOCKER ROOM STORAGE SPACE AS SHOWN. MC TO HAVE PROJECT GC PRESENT WHEN REMOVING DUCTWORK GOING UP THROUGH ROOF. REFER TO ROOF DEMOLITION PLAN FOR FURTHER DEMOLITION SCOPE.
24. MC SHALL DEMO & REMOVE EXISTING 2"Ø (GLYCOL) PGHWS/R MAINS COMING UP THROUGH FLOOR OF SPACE SHOWN. MC SHALL CUT BACK PIPING & PERMANENTLY CAP & ABANDON BELOW FINISHED FLOOR. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
25. MC SHALL DEMO & REMOVE EXISTING 2"Ø (GLYCOL) PGHWS/R MAINS RUNNING IN SPACES SHOWN.
26. MC SHALL DEMO & REMOVE EXISTING GLYCOL HOT WATER UNIT HEATER SHOWN & REMOVE CONNECTED GLYCOL HWS/HWR LINES ASSOCIATED WITH EQUIPMENT.
27. MC SHALL DEMO & REMOVE EXISTING 4"Ø HWS/R MAINS COMING UP THROUGH FLOOR OF SPACE SHOWN. MC SHALL CUT BACK PIPING & PERMANENTLY CAP & ABANDON BELOW FINISHED FLOOR. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
28. MC SHALL DEMO & REMOVE EXISTING (GLYCOL) PGHWS/R LINES GOING UP THROUGH ROOF OF SPACE SHOWN TO EXISTING LOCKER ROOM H-V UNIT COIL ON ROOF. MC TO HAVE GC PRESENT WHEN DOING DEMO WORK. REFER TO ROOF DEMOLITION PLANS FOR FURTHER SCOPE DETAILS.
29. MC SHALL DEMO & REMOVE EXISTING HWS & HWR CONNECTIONS & EXISTING CONTROL VALVE TO EXISTING FINNED TUBE IN SPACE SHOWN. EXISTING FINNED TUBE TO BE CLEANED BY MC (INCLUDING COVER & ELEMENT/FINS) & RE RE-USED. MC SHALL CUT BACK HWS & HWR CONNECTIONS DOWN TO FLOOR & CAP PERMANENTLY BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO NEW WORK PLANS FOR FURTHER SCOPE DETAILS.

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. MC SHALL BE REQUIRED TO COORDINATE UNIT VENTILATOR REMOVAL WITH PROJECT GC PRESENT.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

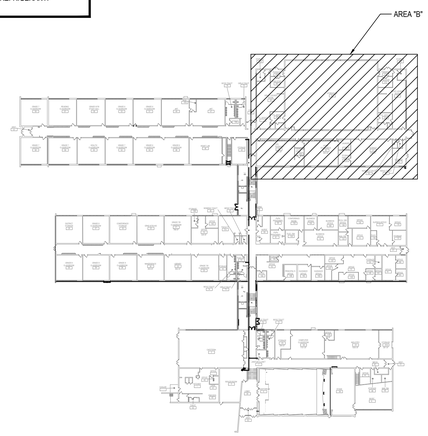
EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
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   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



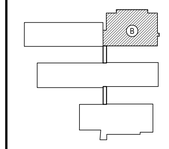
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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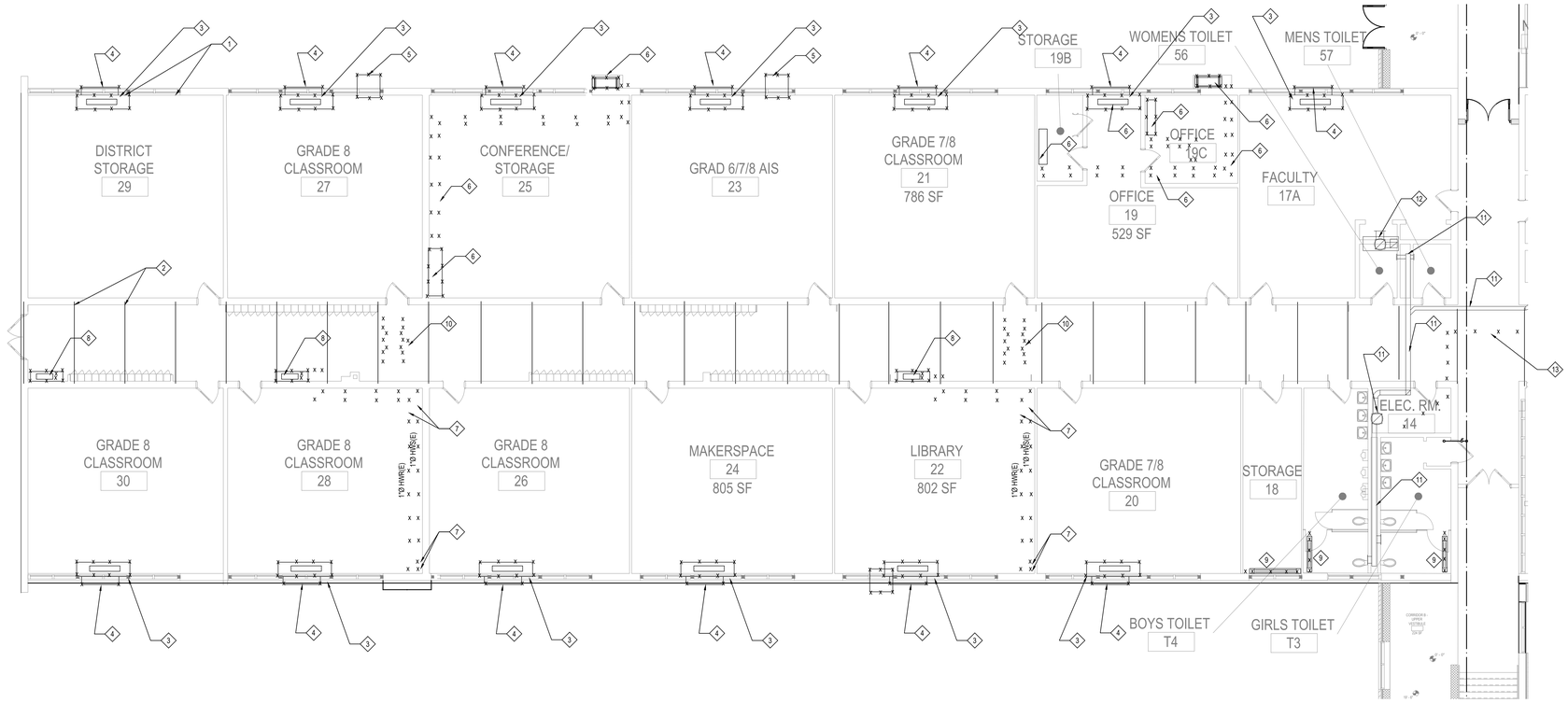
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.02



FIRST FLOOR -MIDDLE SCHOOL- AREA "C" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "C " - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. CLASSROOM, STORAGE ROOMS, LAUNDRY ROOMS CEILING STRUCTURE—EXISTING 14" STEEL I-BEAMS SPACED 7'-0" ON CENTER, BOTTOM OF BEAMS IS 8'-1" FROM FINISHED FLOOR. EXISTING DROP CEILING IS 8'-0" FROM FINISHED FLOOR OF CLASSROOM. PROPOSED CEILING IS TO BE OPEN CEILING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
2. CORRIDOR CEILING STRUCTURE—EXISTING 8" DEEP STEEL I-BEAMS SPACED 7'-0" ON CENTER. BOTTOM OF BAR JOISTS IS 8'-7" TO FINISHED FLOOR. EXISTING DROP CEILING IS 8'-6". PROPOSED CEILING IS TO BE LOWERED. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
3. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
4. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
5. MC SHALL DEMO & REMOVE EXISTING WINDOW AIR CONDITIONING UNITS. MC TO HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
6. MC SHALL DEMO & REMOVE EXISTING AC SPLIT SYSTEM, WHICH CONSISTS OF THE FOLLOWING:
   - A) EXISTING OUTDOOR CONDENSING UNIT (WALL MOUNTED OR ROOF MOUNTED).
   - B) EXISTING REFRIGERANT PIPING LINE SETS AS SHOWN.
   - C) EXISTING INDOOR EVAPORATOR UNIT AS SHOWN.
7. MC SHALL DEMO & REMOVE EXISTING HWS/HWR LINES RUNNING IN CEILING AS SHOWN & SHALL CUT BACK & CAP BOTH LINES BELOW FINISHED FLOOR & PERMANENTLY ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
8. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
9. MC SHALL DEMO & REMOVE EXISTING HOT WATER FINNED TUBE & ASSOCIATED ENCLOSURE FOR FINNED TUBE AS SHOWN. MC SHALL CUT BACK & CAP EXISTING 1-1/4"Ø HWS/HWR PIPING BELOW FINISHED FLOOR & PERMANENTLY ABANDON. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
10. MC SHALL DEMO & REMOVE EXISTING RELIEF AIR SYSTEM DUCTWORK & ASSOCIATED GRILLE AS SHOWN. MC SHALL COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.
11. EXISTING FAN POWERED TOILET SPACES EXHAUST SYSTEM SHOWN TO REMAIN IN PLACE (NOT IN CONTRACT). REFER TO M1.04 FOR CONTINUATION OF DUCTWORK ASSOCIATED WITH THIS SYSTEM, WHICH SHALL ALSO REMAIN IN PLACE (NOT IN CONTRACT)
12. EXISTING FAN POWERED EXHAUST SYSTEM SHOWN TO REMAIN IN PLACE (NOT IN CONTRACT)
13. MC TO DEMO & REMOVE EXISTING 1"Ø CONDENSATE DRAIN LINE PIPING SHOWN. REFER ALSO TO M1.04 FOR ADDITIONAL DEMOLITION SCOPE WORK FOR THIS SAME LINE IN AREA "D".

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
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MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

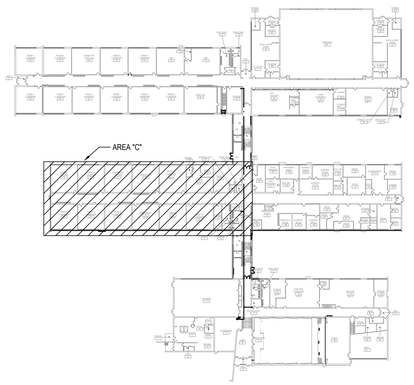
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MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
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   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
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   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



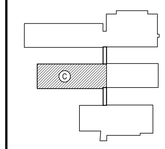
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "C"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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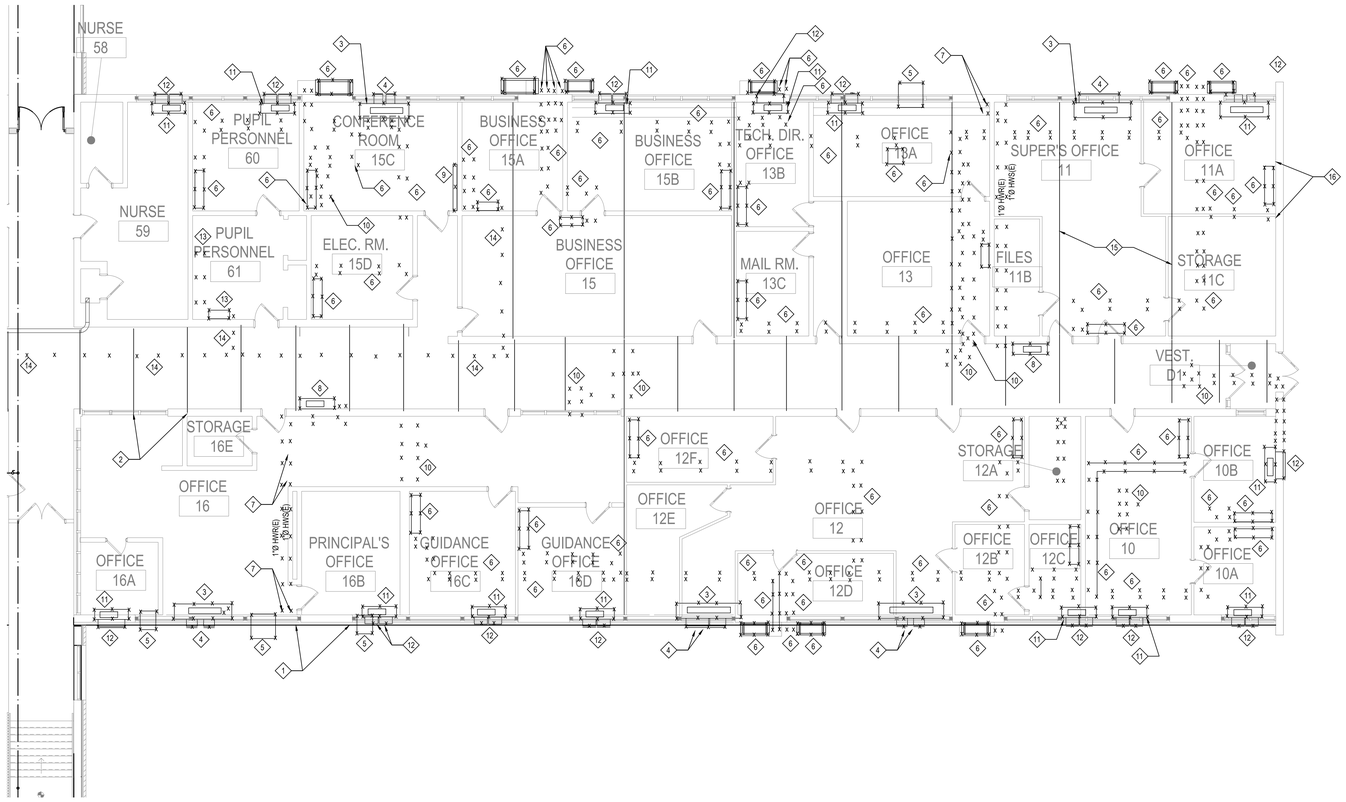
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.03



FIRST FLOOR -MIDDLE SCHOOL- AREA "D" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "D " - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. CEILING STRUCTURE--EXISTING 14" STEEL I-BEAMS SPACED 7'-0" ON CENTER. BOTTOM OF BEAMS IS 8'-1" FROM FINISHED FLOOR. EXISTING DROP CEILING IS 8'-0" FROM FINISHED FLOOR OF CLASSROOM. PROPOSED CEILING IS TO BE OPEN CEILING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
2. CORRIDOR CEILING STRUCTURE--EXISTING 8" DEEP STEEL I-BEAMS SPACED 7'-0" ON CENTER. BOTTOM OF BAR JOISTS IS 8'-7" TO FINISHED FLOOR. EXISTING DROP CEILING IS 8'-6". PROPOSED CEILING IS TO BE LOWERED. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
3. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
4. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER(S) FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
5. MC SHALL DEMO & REMOVE EXISTING WINDOW AIR CONDITIONING UNITS. MC TO HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
6. MC SHALL DEMO & REMOVE EXISTING AC SPLIT SYSTEM, WHICH CONSISTS OF THE FOLLOWING:
   A) EXISTING OUTDOOR CONDENSING UNIT (WALL MOUNTED OR ROOF MOUNTED).
   B) EXISTING REFRIGERANT PIPING LINE SETS AS SHOWN.
   C) EXISTING INDOOR EVAPORATOR UNIT AS SHOWN.
7. MC SHALL DEMO & REMOVE EXISTING HWS/HWR LINES RUNNING IN CEILING AS SHOWN & SHALL CUT BACK & CAP BOTH LINES BELOW FINISHED FLOOR & PERMANENTLY ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
8. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
9. MC SHALL DEMO & REMOVE EXISTING ELECTRICAL FINNED TUBE & ASSOCIATED ENCLOSURE
10. MC SHALL DEMO & REMOVE EXISTING RELIEF AIR SYSTEM DUCTWORK & ASSOCIATED GRILLE AS SHOWN. MC SHALL COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.
11. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT FAN COIL UNIT. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
12. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER FROM EXISTING EXTERIOR WALL FOR FAN COIL UNIT. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
13. MC SHALL DEMO & REMOVE EXISTING AC SPLIT SYSTEM, WHICH CONSISTS OF THE FOLLOWING:
   A) EXISTING ROOFTOP OUTDOOR CONDENSING UNIT (WALL MOUNTED OR ROOF MOUNTED).
   B) EXISTING REFRIGERANT PIPING LINE SETS AS SHOWN.
   C) EXISTING INDOOR EVAPORATOR UNIT AS SHOWN.

   REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.
14. MC TO DEMO & REMOVE EXISTING 1"Ø CONDENSATE DRAIN LINE PIPING SHOWN. REFER ALSO TO M1.03 FOR ADDITIONAL DEMOLITION SCOPE WORK FOR THIS SAME LINE IN AREA "C".
15. OFFICE SECTION STEEL BEAM CEILING STRUCTURE--EXISTING 16" STEEL I-BEAMS SPACED APPROXIMATELY 14-5" ON CENTER. BOTTOM OF STEEL BEAM IS 7'-11" ABOVE FINISHED FLOOR. EXISTING DROP CEILING IS 7'-10". REFER TO ARCHITECTURAL PLANS FOR PROPOSED CEILING & FURTHER DETAILS OF HEIGHTS.
16. OFFICE SECTION BAR JOISTS CEILING STRUCTURE--EXISTING 8" DEEP BAR JOISTS SPACED APPROXIMATELY 7'-4" ON CENTER. BOTTOM OF STEEL BEAM IS 8'-7" ABOVE FINISHED FLOOR. EXISTING DROP CEILING IS 7'-10". REFER TO ARCHITECTURAL PLANS FOR PROPOSED CEILING & FURTHER DETAILS OF HEIGHTS.

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
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3. MC SHALL BE REQUIRED TO COORDINATE UNIT VENTILATOR REMOVAL WITH PROJECT GC PRESENT.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

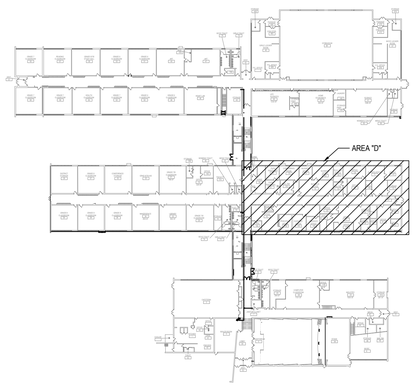
EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING.
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



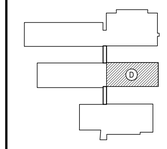
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL

DWG TITLE

AREA "D"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

NOTICE

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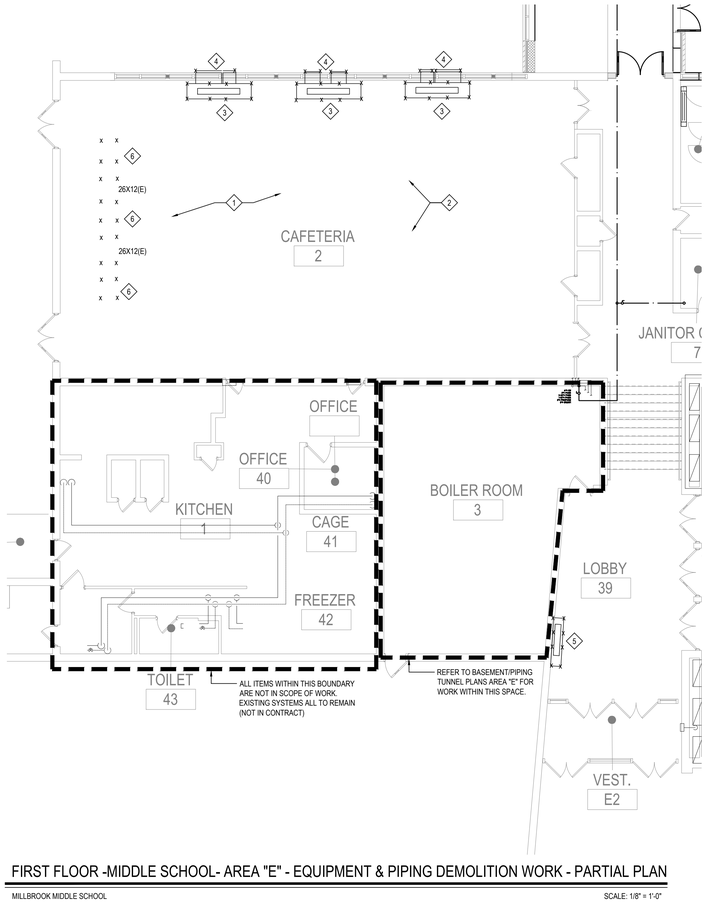
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.04



FIRST FLOOR -MIDDLE SCHOOL- AREA "E" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "E" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. CAFETERIA STEEL BEAM CEILING STRUCTURE--EXISTING 21" DEEP STEEL I-BEAMS SPACED APPROXIMATELY 14-5" ON CENTER. BOTTOM OF STEEL BEAM IS 6" ABOVE EXISTING DROP CEILING. REFER TO ARCHITECTURAL PLANS FOR PROPOSED CEILING & FURTHER DETAILS OF CEILING HEIGHTS.

2. CAFETERIA BAR JOISTS CEILING STRUCTURE--EXISTING 8" DEEP BAR JOISTS SPACED APPROXIMATELY 6'-7" ON CENTER. BOTTOM OF BAR JOISTS ARE 17" ABOVE EXISTING DROP CEILING. REFER TO ARCHITECTURAL PLANS FOR PROPOSED CEILING & FURTHER DETAILS OF CEILING HEIGHTS.

3. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.

4. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER(S) FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.

5. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL. MC TO RE-USE EXISTING HOT WATER PIPING FOR PROPOSED HEATER. REFER TO NEW WORK PLANS FOR FURTHER DETAILS.

6. MC SHALL DEMO & REMOVE EXISTING RELIEF AIR SYSTEM DUCTWORK & ASSOCIATED GRILLE(S) AS SHOWN. MC SHALL COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. MC SHALL BE REQUIRED TO COORDINATE UNIT VENTILATOR REMOVAL WITH PROJECT GC PRESENT.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

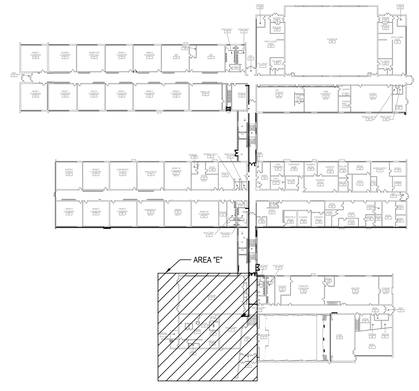
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3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.



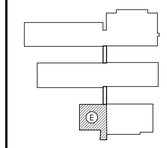
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

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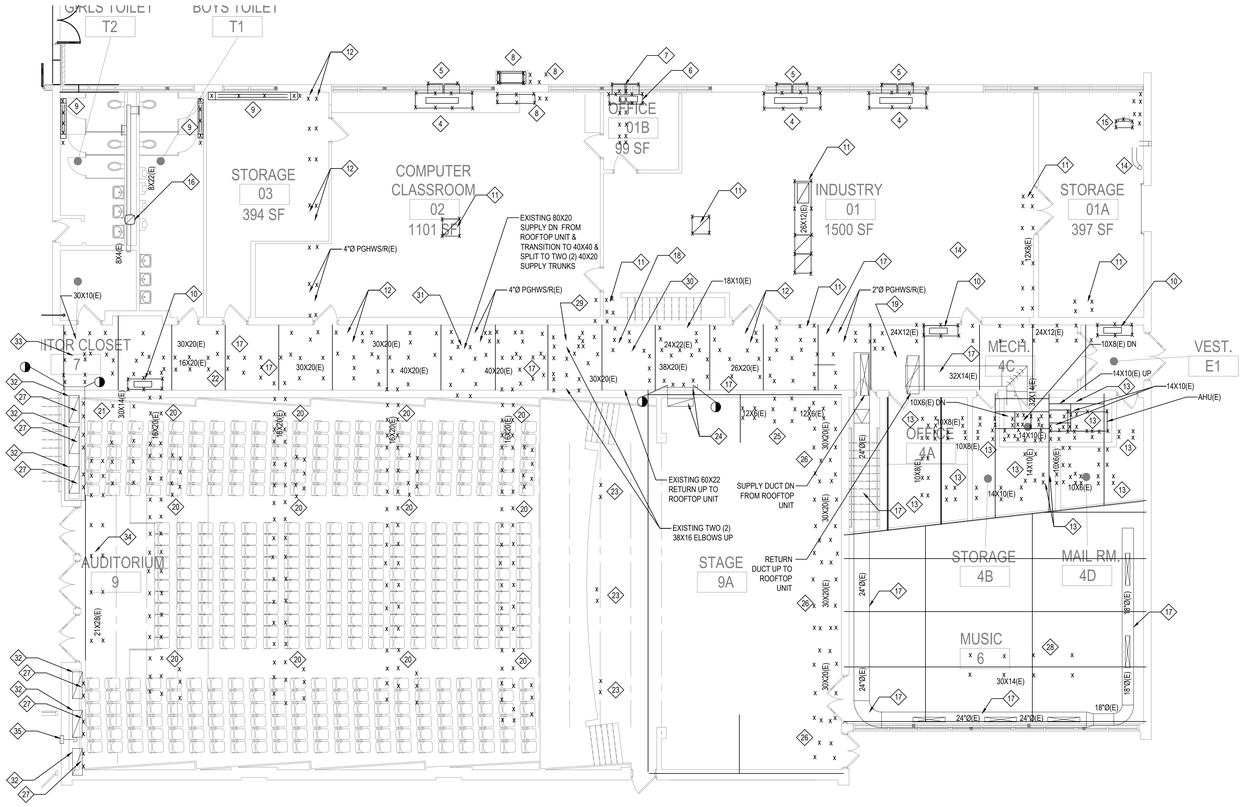
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FIRST FLOOR -MIDDLE SCHOOL- AREA "F" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "F" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. ROOMS 1, 1A, 2, AND 3 — STEEL BEAM CEILING STRUCTURE—EXISTING 16" DEEP STEEL I-BEAMS SPACED APPROXIMATELY 14-2" ON CENTER. OPEN CEILING SPACE PRESENTLY AND SHALL REMAIN AN OPPEN CEILING FOR PROPOSED EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
2. ROOMS 1, 1A, 2, AND 3 — CAFETERIA BAR JOISTS CEILING STRUCTURE—EXISTING 8" DEEP BAR JOISTS SPACED APPROXIMATELY 7'-0" ON CENTER. OPEN CEILING SPACE PRESENTLY AND SHALL REMAIN AN OPPEN CEILING FOR PROPOSED EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
3. CORRIDOR SPACE — STEEL BEAM CEILING STRUCTURE—EXISTING 6" DEEP STEEL I-BEAMS SPACED APPROXIMATELY 7-0" ON CENTER. BOTTOM OF BEAMS TO TOP OF DROP CEILING IS 3'-3" APPROXIMATELY. EXISTING DROP CEILING TO FINISHED FLOOR IS 7'-6". REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
4. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT VENTILATOR. MC SHALL DISCONNECT EXISTING 1-1/2"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
5. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER(S) FROM EXISTING EXTERIOR WALL. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
6. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED UNIT FAN COIL UNIT. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING COMING UP FROM FLOOR FROM BASEMENT PIPING TUNNEL. MC SHALL CUT & PERMANENTLY CAP BOTH LINES BELOW FINISHED FLOOR & ABANDON PIPING. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
7. MC SHALL DEMO & REMOVE EXISTING FRESH AIR INTAKE LOUVER FROM EXISTING EXTERIOR WALL FOR FAN COIL UNIT. MC SHALL REMOVE LOUVER WITH GC PRESENT. GC TO THEN PATCH OPENING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
8. MC SHALL DEMO & REMOVE EXISTING AC SPLIT SYSTEM, WHICH CONSISTS OF THE FOLLOWING:
   A) EXISTING OUTDOOR CONDENSING UNIT (WALL MOUNTED OR ROOF MOUNTED).
   B) EXISTING REFRIGERANT PIPING LINE SETS AS SHOWN.
   C) EXISTING INDOOR EVAPORATOR UNIT AS SHOWN.
9. MC SHALL DEMO & REMOVE EXISTING HOT WATER FINNED TUBE & ASSOCIATED ENCLOSURE FOR FINNED TUBE AS SHOWN. MC SHALL CUT BACK & CAP EXISTING 1-1/4"Ø HWS/HWR PIPING BELOW FINISHED FLOOR & PERMANENTLY ABANDON. REFER TO BASEMENT DEMOLITION PLANS FOR FURTHER DETAILS.
10. MC SHALL DEMO & REMOVE EXISTING FLOOR MOUNTED HYDRONIC HOT WATER CABINET HEATER SHOWN. MC SHALL DISCONNECT EXISTING 1"Ø HWS/HWR PIPING TO/FROM HEATER & CUT BACK TO BELOW FINISHED FLOOR INTO PIPING TUNNEL & PERMANENTLY CAP EACH LINE & ABANDON. MC SHALL HAVE EC DISCONNECT POWER PRIOR TO REMOVAL.
11. MC SHALL DEMO & REMOVE EXISTING RELIEF AIR SYSTEM DUCTWORK & ASSOCIATED GRILLE(S) AS SHOWN. MC SHALL COORDINATE DUCTWORK REMOVAL WITH PROJECT GC. REFER TO ROOF DEMOLITION PLANS FOR CONTINUATION OF DEMOLITION WORK ON ROOF.
12. MC SHALL DEMO & REMOVE EXISTING 4"Ø GLYCOL HOT WATER SUPPLY/RETURN LINES (GLYCOL HWS/R) RUNNING AS SHOWN. MC SHALL BACK LINES COMING UP FROM FINISHED FLOOR & CAP EACH LINE BELOW FINISHED FLOOR WITHIN PIPING TUNNEL AND PERMANENTLY ABANDON EACH LINE. MC SHALL ALSO DEMO & REMOVE GLYCOL HWS/R LINES GOING UP THROUGH ROOF TO EXISTING MUSIC ROOM RTU & TO EXISTING AUDITORIUM RTU. REFER TO ROOF DEMOLITION PLAN FOR ADDITIONAL SCOPE FOR MC. MC TO HAVE GC PRESENT WHEN REMOVING PIPING GOING UP THROUGH ROOF.
13. MC SHALL DEMO & REMOVE EXISTING INDOOR AIR HANDLING UNIT SYSTEM SERVING SMALL OFFICES & STORAGE SPACES AS SHOWN. MC SHALL DEMO AND REMOVE THE FOLLOWING:
   A) AIR HANDLING UNIT & ASSOCIATED CONTROL DAMPERS.
   B) ASSOCIATED HWS/R PIPING COMING UP FROM BASEMENT SPACE & CAP HWS/R LINES BELOW WITHIN PIPING TUNNEL & PERMANENTLY ABANDON IN PLACE.
   C) ASSOCIATED SUPPLY DUCTWORK, RETURN DUCTWORK, RELIEF AIR DUCTWORK, & FRESH AIR DUCTWORK.
   D) ASSOCIATED REFRIGERANT DX PIPING FOR EXISTING AHU.
   E) MC TO HAVE GC PRESENT FOR FRESH AIR DUCTWORK, RELIEF AIR DUCTWORK, & DX PIPING BEING REMOVED. REFER THEN TO ROOFTOP DEMOLITION PLAN FOR ADDITIONAL MC SCOPE OF WORK.
   F) REFER TO BASEMENT FLOOR PLANS FOR ADDITIONAL DEMOLITION WORK ASSOCIATED WITH HWS/R PIPING, SUPPLY DUCTWORK, RETURN DUCTWORK.
14. EXISTING SPACE SHOP EQUIPMENT TO REMAIN (NOT IN CONTRACT).
15. MC SHALL DEMO & REMOVE EXISTING HYDRONIC HOT WATER UNIT HEATER & CUT BACK ASSOCIATED 1-1/4"Ø HWS/R PIPING FOR UNIT. PIPING TO BE CUT BACK BY MC TO BELOW FINISHED FLOOR & SHALL BE PERMANENTLY CAPPED & ABANDONED IN PIPING TUNNEL SPACE.
16. EXISTING FAN POWERED EXHAUST SYSTEM SHOWN TO REMAIN IN PLACE (NOT IN CONTRACT)
17. MC SHALL DEMO & REMOVE EXISTING CORRIDOR CEILING 38X20 RETURN TRUNK PIECE AS SHOWN, 38X20 TO 26X20 TRANSITION PIECE, & 26X20 RETURN TRUNK PIECE IN CORRIDOR CEILING AS SHOWN.
18. EXISTING SUPPLY & RETURN DUCTWORK SYSTEMS DN/UP TO/FROM EXISTING ROOF CURB FOR AUDITORIUM SPACE ROOFTOP UNIT ALL TO REMAIN & BE RE-USED AGAIN FOR PROPOSED EQUIPMENT.
19. EXISTING SUPPLY & RETURN DUCTWORK SYSTEMS DN/UP TO/FROM EXISTING ROOF CURB FOR MUSIC ROOM SPACE ROOFTOP UNIT ALL TO REMAIN & BE RE-USED AGAIN FOR PROPOSED EQUIPMENT.
20. MC SHALL DEMO & REMOVE EXISTING 16X20 SUPPLY DUCT BRANCH AS SHOWN & CUT BACK TO EXISTING SUPPLY TRUNK IN CORRIDOR CEILING.
21. MC SHALL DEMO & REMOVE EXISTING 30X14 RETURN DUCT BRANCH AS SHOWN & CUT BACK TO EXISTING RETURN TRUNK IN CORRIDOR CEILING.
22. MC SHALL DEMO & REMOVE EXISTING 16X20 SUPPLY DUCT & 30X20 TO 16X20 TRANSITION PIECE AS SHOWN. REFER TO NEW WORK PLANS FOR NEW DUCTWORK.
23. MC SHALL DEMO & REMOVE EXISTING 26X22 RETURN GRILLES BELOW IN FRONT OF STAGE. RETURN PATH IS TO BE REMOVED. REFER TO NEW WORK FOR FURTHER DETAILS.
24. MC SHALL DUCT & CAP EXISTING 40X10 RETURN DUCT BRANCH SHOWN & DISCONNECT FROM EXISTING RETURN TRUNK AS SHOWN. REFER TO NEW WORK PLAN FOR FURTHER DETAILS.
25. MC SHALL DEMO & REMOVE EXISTING 26X20 RETURN DUCTWORK WITHIN STAGE AREA & ASSOCIATED 12X6 BRANCHES AS SHOWN. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.
26. MC SHALL DEMO & REMOVE EXISTING 30X20 SUPPLY DUCTWORK WITHIN STAGE AREA & ASSOCIATED AIR OUTLETS AS SHOWN. REFER TO NEW WORK PLAN FOR FURTHER INFORMATION.
27. MC SHALL DEMO & REMOVE EXISTING 26X22 LOW RETURN AIR OUTLET AS SHOWN. REFER TO NEW WORK PLANS FOR FURTHER DETAILS. THERE ARE THREE (2) 26X22 LOW RETURN GRILLES ON EACH SIDE OF AUDITORIUM BACK WALL FOR A TOTAL OF SIX (6) TO BE REMOVED WITH REPLACED WITH AN EQUAL SIZE.
28. MC SHALL DEMO & REMOVE EXISTING 30X14 RELIEF AIR DUCTWORK EXHAUST SYSTEM.
29. MC SHALL DEMO & REMOVE EXISTING 38X16 ELBOW C-DUCT SHOWN.
30. MC SHALL DEMO & REMOVE EXISTING 60X22 RETURN DUCTWORK DROP GOING UP THROUGH ROOF. REFER TO ROOF DEMOLITION PLAN FOR CONTINUATION. MC TO COORDINATE THIS WORK WITH GC.
31. MC SHALL DEMO & REMOVE EXISTING 80X20 SUPPLY DUCTWORK DROP GOING UP THROUGH ROOF. REFER TO ROOF DEMOLITION PLAN FOR CONTINUATION. MC TO COORDINATE THIS WORK WITH GC.
32. MC SHALL ABANDON EXISTING 42X14 VERTICAL RETURN DUCTS IN EXISTING SHAFT & ABANDON IN PLACE PERMANENTLY.
33. MC SHALL DEMOLISH & REMOVE EXISTING 30X20 RETURN DUCTWORK IN CEILING OF CORRIDOR PLENUM SPACE & CAP ABOVE RETURN SHAFT AS SHOWN.
34. MC SHALL DEMOLISH & REMOVE EXISTING 21X28 RETURN DUCT ABOVE AUDITORIUM CEILING WHEN GC REMOVES CEILING.
35. EXISTING 3'Ø ROOF LEADER/SCUPPER DRAIN SHALL REMAIN IN PLACE & BE RE-USED. MC TO COORDINATE MECHANICAL DEMOLITION WORK AROUND THIS.

GENERAL DEMOLITION NOTES:

1. MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. MC SHALL BE REQUIRED TO COORDINATE UNIT VENTILATOR REMOVAL WITH PROJECT GC PRESENT.
4. UNLESS OTHERWISE NOTED VIA KEY PLANS & DEMOLITION "x" SYMBOL, ALL EXISTING DUCTWORK SHALL REMAIN & BE RE-USED AGAIN.
5. FOR AUDITORIUM AREA, GC IS TO REMOVE EXISTING ACOUSTICAL PLASTER CEILING. MC TO THEN REMOVE EXISTING DUCTWORK SHOWN TO BE DEMOLISHED. MC TO COORDINATE WORK WITH PROJECT GC. REFER TO NEW WORK PLANS FOR PROPOSED DUCTWORK.
6. MC TO REFER TO PLANS TO SEE WHICH DUCTWORK IS TO BE DEMOLISHED & WHICH DUCTWORK IS TO REMAIN & BE RE-USED.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

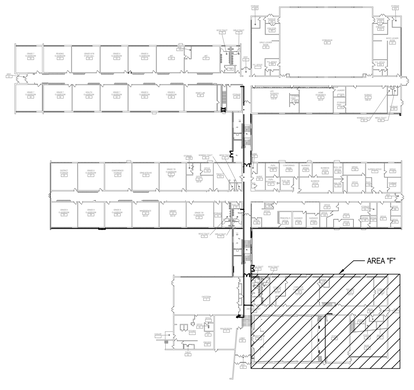
EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.



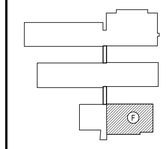
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-FIRST FLOOR MECH. DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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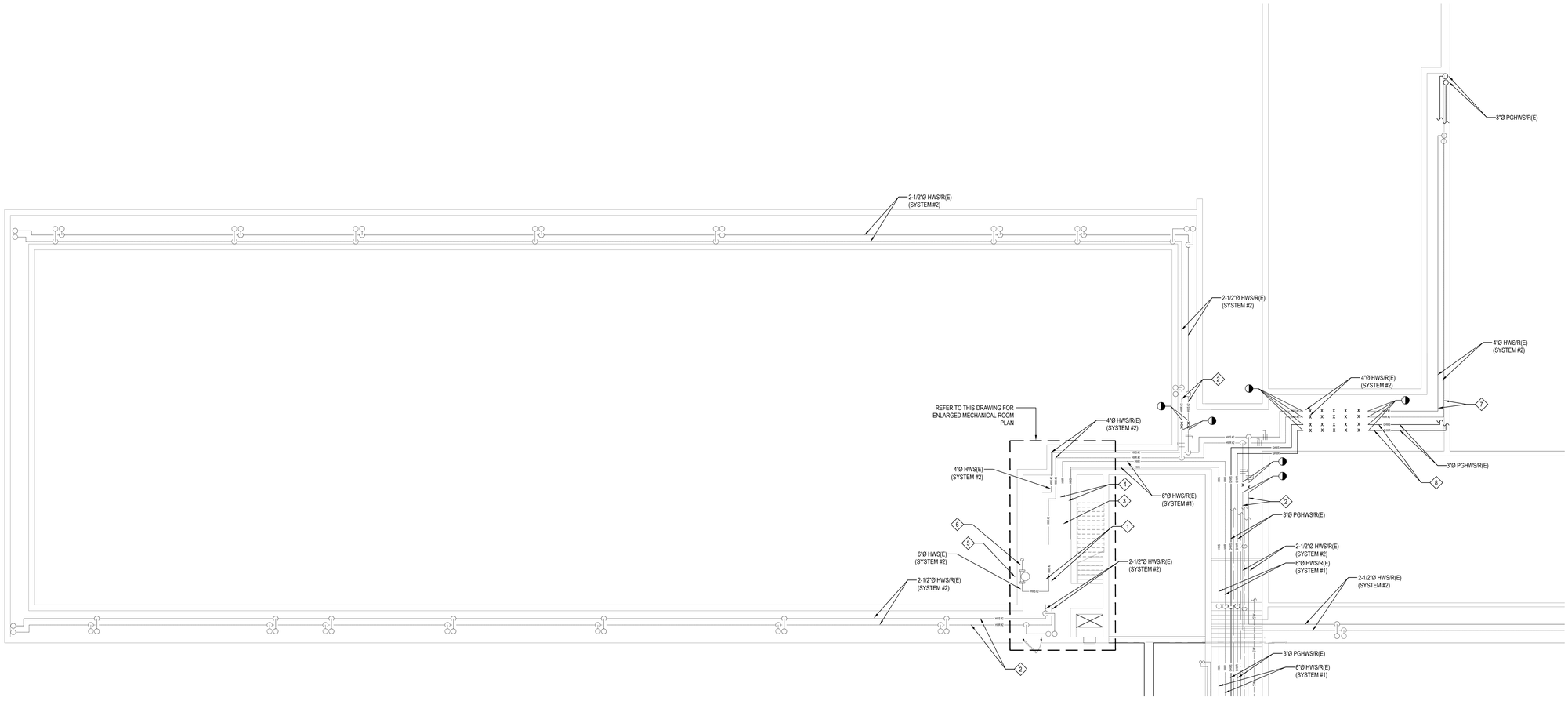
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.06



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "A" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. SEE ENLARGED DEMOLITION PLAN FOR DETAILS.
2. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2-1/2"Ø HWS/R (SYSTEM #2) BRANCH PIPING SHOWN.
3. EXISTING PLATE AND FRAME HEAT EXCHANGER (PFHX-SYSTEM #2) FOR SYSTEM #2 SHALL REMAIN & BE RE-USED.
4. EXISTING 6"Ø HWS/R LINES FROM SYSTEM #1 (6"Ø HWS/R SYSTEM #1) COMING INTO MECHANICAL SPACE TO SERVE EXISTING PFHX SYSTEM #2 (E) TO REMAIN & BE RE-USED.
5. SEE ENLARGED PLANS ON THIS DRAWING FOR FURTHER SCOPE DETAILS.
6. EXISTING 6"Ø HWS LINE TO & FROM EXISTING SYSTEM #2 HOT WATER SUPPLY PUMPS FOR SYSTEM #2 TO REMAIN AND BE RE-USED.
7. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 4"Ø HWS/R (SYSTEM #2) BRANCH PIPING SHOWN.
8. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 3"Ø PROPYLENE GLYCOL HWS/R (SYSTEM #2) BRANCH PIPING SHOWN.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

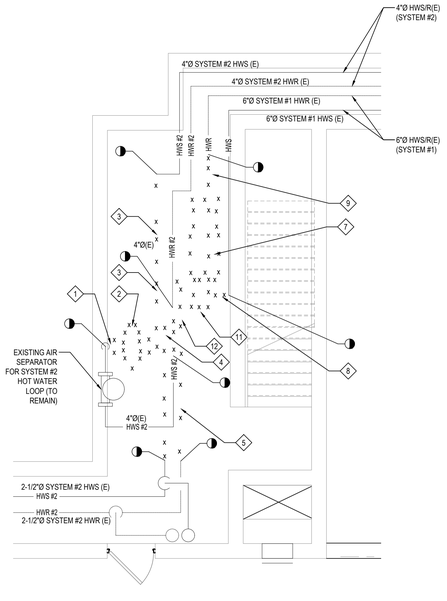
BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - BASEMENT PLAN - ENLARGED MECHANICAL ROOM - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT BACK & DEMO & REMOVE EXISTING SUCTION SIDE 4"Ø SYSTEM #2 HWS LINE GOING INTO EXISTING (SYSTEM #2) SECONDARY HOT WATER PUMPS (P-4 & P-4A) AS SHOWN.
2. MC SHALL HAVE EC DISCONNECT POWER TO BOTH EXISTING (SYSTEM #2) SECONDARY HOT WATER PUMPS (P-4 & P-4A) SHOWN. MC TO THEN DEMOLISH & REMOVE OF BOTH EXISTING (SYSTEM #3) SECONDARY HOT WATER PUMPS (P-4 & P-4A).
3. MC SHALL CUT BACK & DEMO & REMOVE EXISTING DISCHARGE SIDE 4"Ø SYSTEM #2 HWS LINE COMING OUT OF EXISTING (SYSTEM #2) SECONDARY HOT WATER PUMPS (P-4 & P-4A) AS SHOWN.
4. MC TO DEMO & REMOVE EXISTING 2-1/2"Ø SYSTEM #2 HWS LINE SHOWN WHICH SERVES AREA "A" PRIOR TO DEMOLITION WORK.
5. MC TO DEMO & REMOVE EXISTING 2-1/2"Ø SYSTEM #2 HWR LINE SHOWN WHICH SERVES AREA "A" PRIOR TO DEMOLITION WORK.
6. MC CAP & DRAIN DOWN REMAINING EXISTING 2-1/2"Ø SYSTEM #2 HWS/HWR LINES WHICH ARE TO REMAIN & BE ABANDONED IN PLACE.
6. MC CAP & DRAIN DOWN REMAINING EXISTING 2-1/2"Ø SYSTEM #2 HWS/HWR LINES WHICH ARE TO REMAIN & BE ABANDONED IN PLACE.
7. MC SHALL DEMO & REMOVE EXISTING PLATE & FRAME HEAT EXCHANGER SERVING HOT WATER SYSTEM #1 (HOT FLUID) TO HOT WATER SYSTEM #2 (COLD FLUID) AS SHOWN.
8. MC SHALL DEMO & REMOVE EXISTING 6"Ø HOT WATER SUPPLY (SYSTEM #1) HWS SYSTEM PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER THAT IS FOR THE SYSTEM #1 TO SYSTEM #2 HOT WATER HEAT TRANSFER. MC SHALL CUT BACK THE SYSTEM #1 6"Ø HWS PIPING BACK TO LOCATION AS SHOWN ON PLANS.
9. MC SHALL DEMO & REMOVE EXISTING 6"Ø HOT WATER RETURN (SYSTEM #1) HWR SYSTEM PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER THAT IS FOR THE SYSTEM #1 TO SYSTEM #2 HOT WATER HEAT TRANSFER. MC SHALL CUT BACK THE SYSTEM #1 6"Ø HWR PIPING BACK TO LOCATION AS SHOWN ON PLANS.
10. MC SHALL DEMO & REMOVE EXISTING 4"Ø SYSTEM #2) HOT WATER SUPPLY (HWS) SYSTEM PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER SHOWN. CUT BACK TO POINT SHOWN ON PLANS.
11. MC SHALL DEMO & REMOVE EXISTING 4"Ø SYSTEM #2) HOT WATER RETURN (HWR) SYSTEM PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER SHOWN. CUT BACK TO POINT SHOWN ON PLANS.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY AND DRAW UP THE EXACT BOILER ROOM PIPING LAYOUT & PROVIDE A SCALED PIPING SHOP DRAWING FOR REVIEW/APPROVAL PROCESS PRIOR TO START OF ANY DEMOLITION & NEW WORK.
2. MC SHALL ALSO HIRE A N.E.B.B.-CERTIFIED TESTING & BALANCING CONTRACTOR TO TAKE BASELINE READINGS FOR THE FOLLOWING:
   A) EXISTING SYSTEM #2 HOT WATER PUMPS (GPM, RPM, SUCTION SIDE & DISCHARGE SIDE PRESSURE)

   THE BASELINE READINGS ARE TO THEN BE PUT INTO A REPORT & SENT TO ENGINEER OF RECORD FOR REVIEW & COMMENTING PRIOR TO START OF ANY DEMOLITION & NEW WORK.

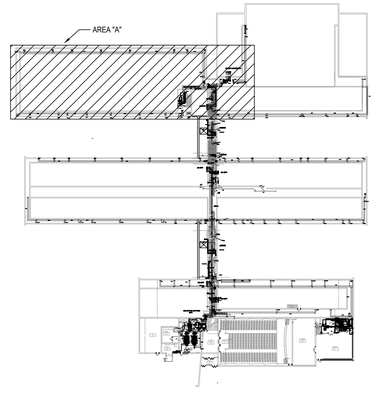


BASEMENT LEVEL -MIDDLE SCHOOL- AREA "A" - BASEMENT PLAN - ENLARGED MECHANICAL ROOM PLAN - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.



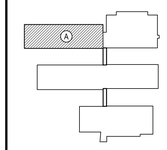
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

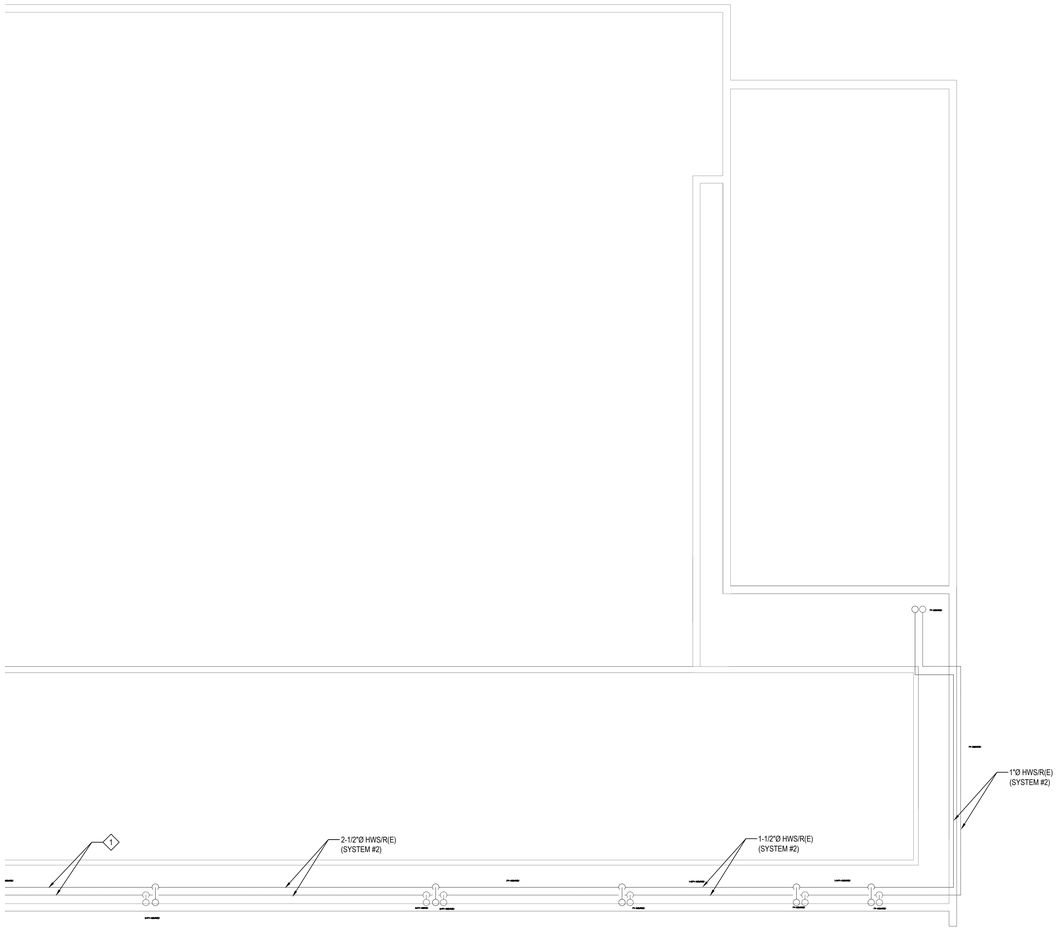
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-BASEMENT MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.07



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "B" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "B" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2-1/2"Ø HWS/R (SYSTEM #2) BRANCH PIPING SHOWN. REFER TO AREA "A" DRAWING M1.07 FOR CUTTING POINT FOR EACH LINE.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

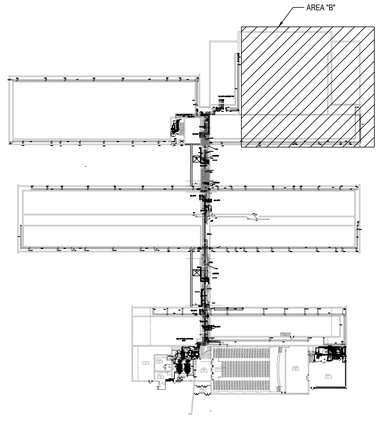
MECHANICAL DEMOLITION GENERAL NOTES:

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EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
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   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



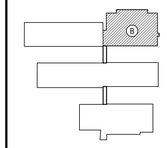
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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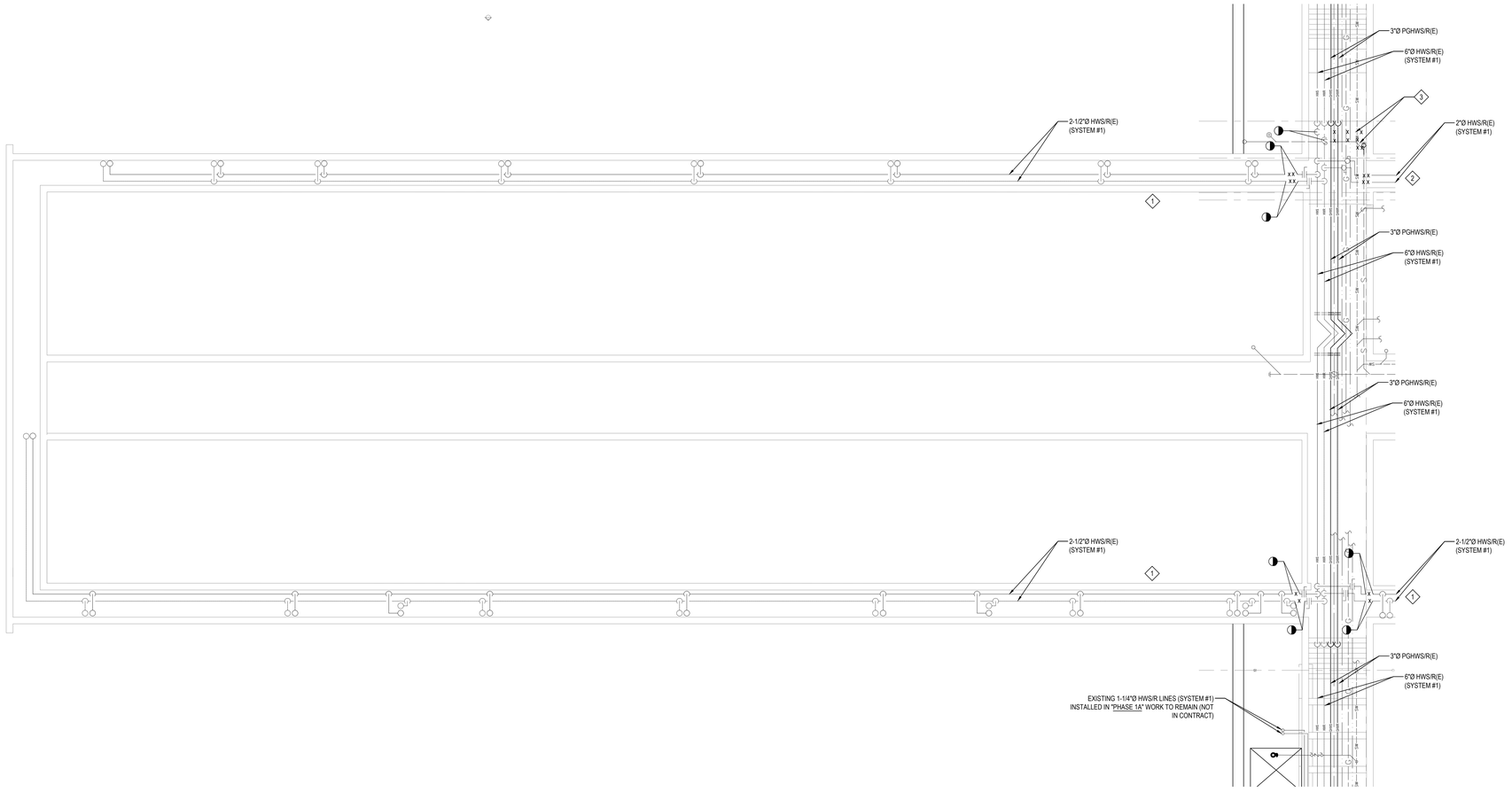
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-BASEMENT MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
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FILE No:	25-273A

M1.08



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "C" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "C" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2-1/2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
2. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
3. MC SHALL DEMO & REMOVE EXISTING 1-1/4"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E"
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

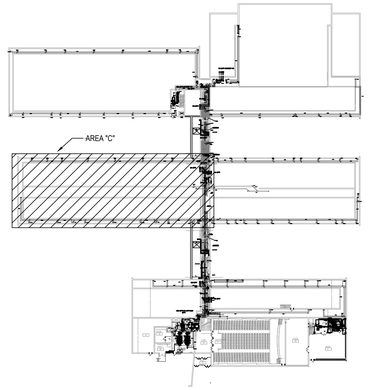
MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



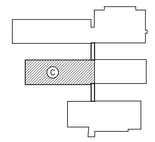
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "C"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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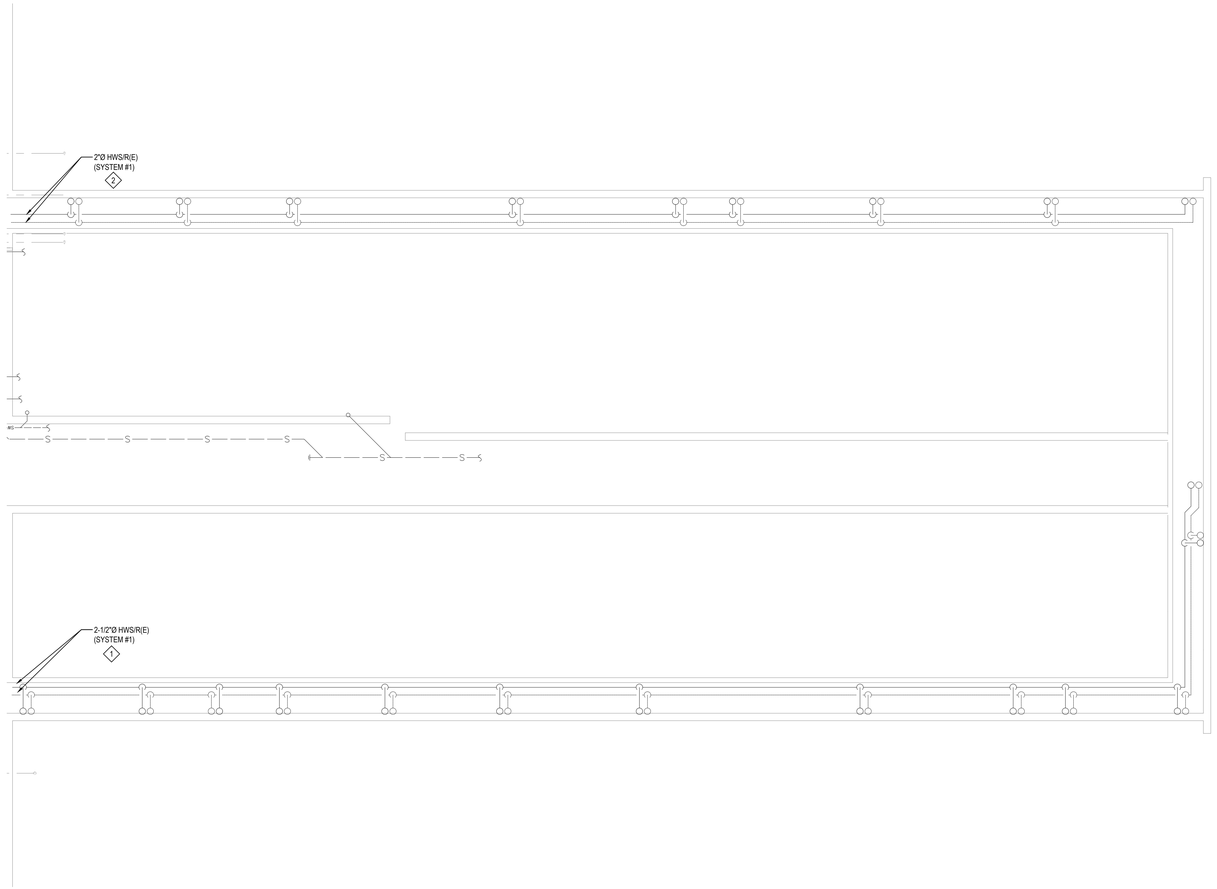
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C" BASEMENT MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.09



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "D" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "D" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2-1/2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
2. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

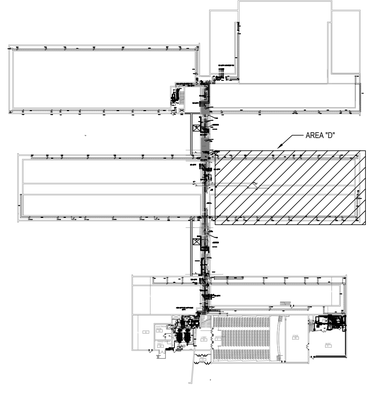
MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



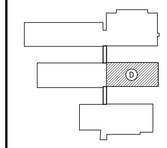
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "D"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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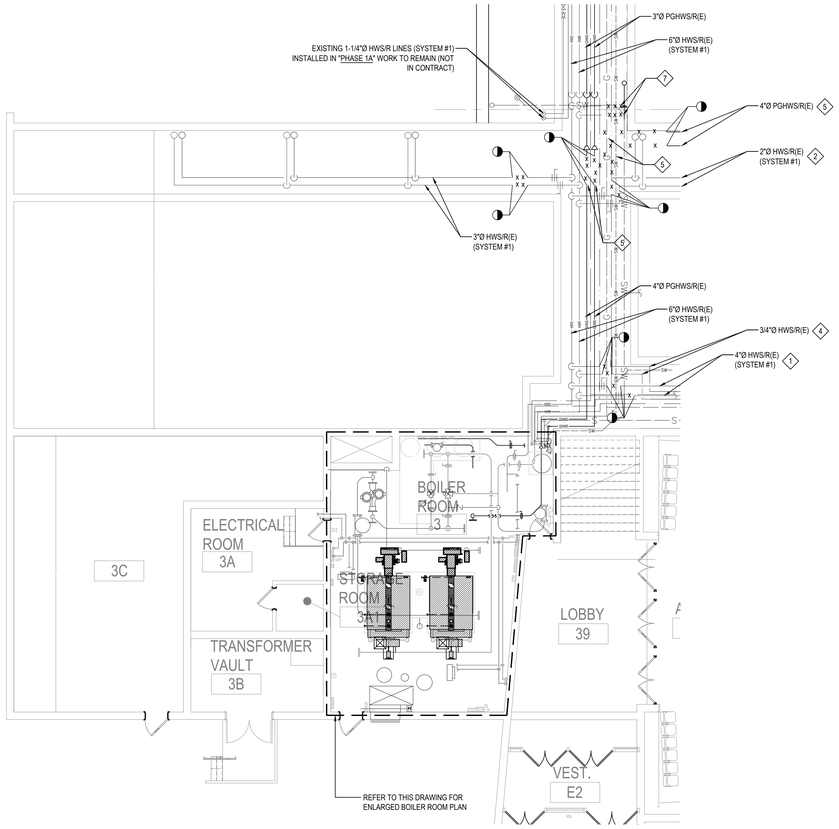
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D" BASEMENT MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.10



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 4"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
2. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
3. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 3"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
4. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 3/4"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
5. MC DEMO & REMOVE EXISTING 4"Ø SECTIONS OF GLYCOL HWS/R MAIN LINES AS SHOWN.
6. MC TO CUT BACK, DRAIN, AND PERMANENTLY CAP EXISTING 4"Ø GLYCOL HWS/R BRANCH LINE PIPING AS SHOWN..
7. MC TO DEMO & REMOVE EXISTING 1"Ø HWS/R (SYSTEM #1) BRANCH LINE PIPING AS SHOWN..

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

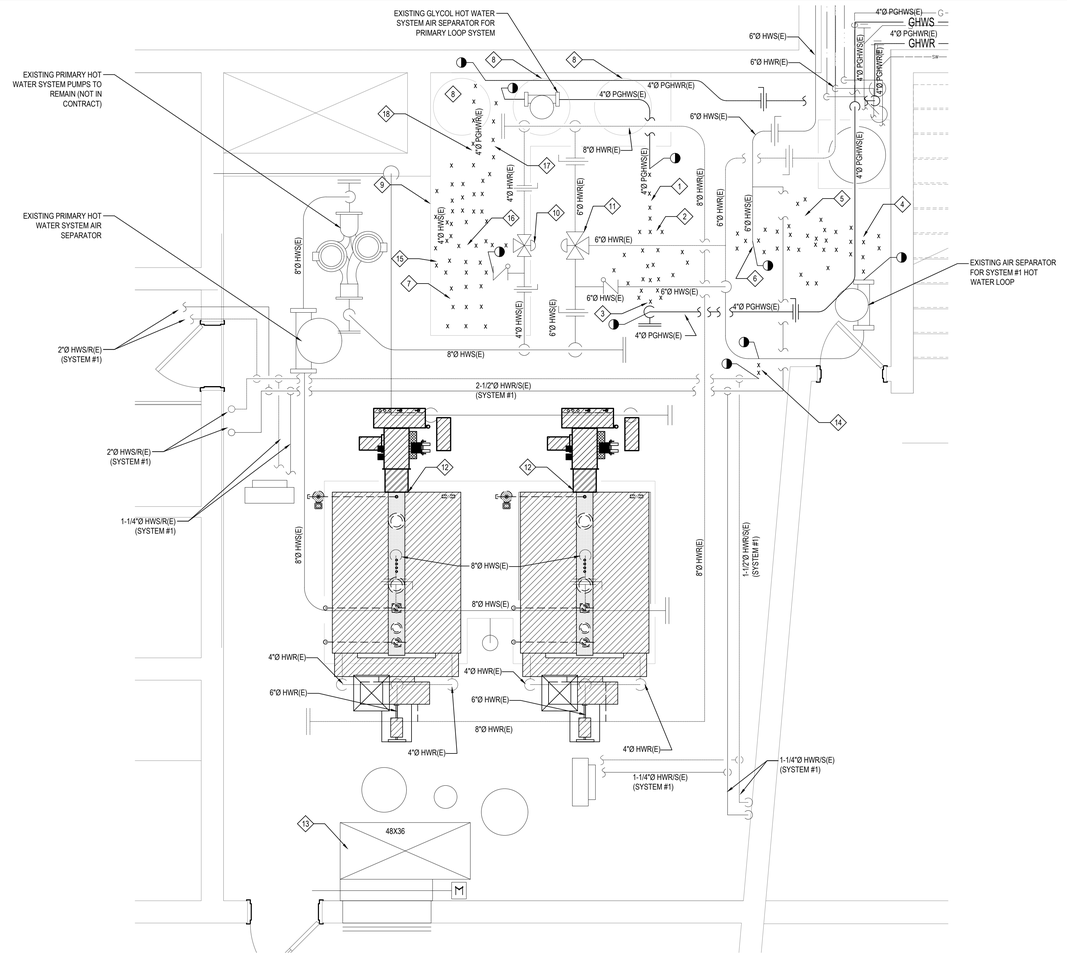
MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - BOILER ROOM ENLARGED DEMOLITION PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 3/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - BOILER ROOM ENLARGED DEMOLITION PLAN - KEY PLAN NOTES:

1. MC SHALL CUT BACK & DEMO & REMOVE EXISTING SUCTION SIDE 4"Ø GLYCOL HWS LINE GOING INTO EXISTING GLYCOL HOT WATER PUMPS AS SHOWN.
2. MC SHALL HAVE EC DISCONNECT POWER TO BOTH EXISTING GLYCOL HOT WATER PUMPS (P-2, P-2A) SHOWN. MC TO THEN DEMOLISH & REMOVE OF BOTH EXISTING HOT WATER PUMPS.
3. MC SHALL CUT BACK & DEMO & REMOVE EXISTING DISCHARGE SIDE 4"Ø GLYCOL HWS LINE COMING OUT OF EXISTING GLYCOL HOT WATER PUMPS AS SHOWN.
4. MC SHALL CUT BACK & DEMO & REMOVE EXISTING SUCTION SIDE 6"Ø SYSTEM #1 HWS LINE GOING INTO EXISTING (SYSTEM #1) HOT WATER PUMPS (P-3 & P-3A) AS SHOWN.
5. MC SHALL HAVE EC DISCONNECT POWER TO BOTH EXISTING (SYSTEM #1) HOT WATER PUMPS (P-3 & P-3A) SHOWN. MC TO THEN DEMOLISH & REMOVE OF BOTH EXISTING (SYSTEM #1)HOT WATER PUMPS (P-3 & P-3A).
6. MC SHALL CUT BACK & DEMO & REMOVE EXISTING DISCHARGE SIDE 6"Ø SYSTEM #1 HWS LINE COMING OUT OF EXISTING (SYSTEM #1) HOT WATER PUMPS (P-3 & P-3A) AS SHOWN.
7. MC SHALL DEMO & REMOVE EXISTING PLATE & FRAME HEAT EXCHANGER FOR GLYCOL SYSTEM TO REMAIN. REFER TO NEW WORK PLANS FOR NEW WORK SCOPE AND REFER TO MECHANICAL SCHEDULES FOR NEW HEAT EXCHANGER DETAILS.
8. EXISTING FLOOR MOUNTED HOT WATER EXPANSION TANK (TYPICAL OF THREE TOTAL) ALL TO REMAIN & BE RE-USED & ARE SHOWN FOR COORDINATION PURPOSES ONLY.
9. EXISTING CONCRETE HOUSEKEEPING PAD TO REMAIN & IS SHOWN FOR COORDINATION PURPOSES ONLY.
10. EXISTING 3-WAY CONTROL VALVE FOR EXISTING GLYCOL SYSTEM PLATE & FRAME HEAT EXCHANGER TO REMAIN IN PLACE & BE RE-USED.
11. EXISTING 3-WAY CONTROL VALVE FOR PRIMARY-SECONDARY HOT WATER PIPING FOR SYSTEM #1 TO REMAIN & BE RE-USED.
12. EXISTING HOT WATER BOILERS (B-1) AND (B-2) BOTH TO REMAIN & BE RE-USED.
13. EXISTING COMBUSTION AIR SYSTEM FOR EXISTING BOILERS TO REMAIN & BE RE-USED.
14. MC SHALL CUT EXISTING 2-1/2"Ø HWR LINE OFF OF EXISTING 6"Ø HWS LINE SHOWN. REFER TO NEW WORK PLAN FOR RE-PIPING SCOPE. MC SHALL VERIFY IN THE FIELD IF THIS SITUATION EXISTS & IF NOT, SHALL NOTIFY ENGINEER OF RECORD TO GET ADVISEMENT ON HOW TO FURTHER PROCEED.
15. MC SHALL DEMO & REMOVE EXISTING 4"Ø PRIMARY HOT WATER SUPPLY (HWS) SYSTEM BRANCH PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER THAT IS FOR THE GLYCOL HOT WATER SUPPLY/RETURN SYSTEM. MC SHALL CUT BACK THE PRIMARY 4"Ø HWS BRANCH PIPING BACK TO EXISTING CHECK VALVE AS SHOWN.
16. MC SHALL DEMO & REMOVE EXISTING 4"Ø PRIMARY HOT WATER RETURN (HWR) SYSTEM BRANCH PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER THAT IS FOR THE GLYCOL HOT WATER SUPPLY/RETURN SYSTEM. MC SHALL CUT BACK THE PRIMARY 4"Ø HWS BRANCH PIPING BACK TO EXISTING THREE-WAY HOT WATER CONTROL VALVE AS SHOWN.
17. MC SHALL DEMO & REMOVE EXISTING 4"Ø GLYCOL HOT WATER SUPPLY (HWS) SYSTEM BRANCH PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER SHOWN. CUT BACK TO POINT SHOWN ON PLANS.
18. MC SHALL DEMO & REMOVE EXISTING 4"Ø GLYCOL HOT WATER RETURN (HWR) SYSTEM BRANCH PIPING SHOWN WHICH FEEDS EXISTING PLATE& FRAME HEAT EXCHANGER SHOWN. CUT BACK TO POINT SHOWN ON PLANS.

GENERAL DEMOLITION NOTES:

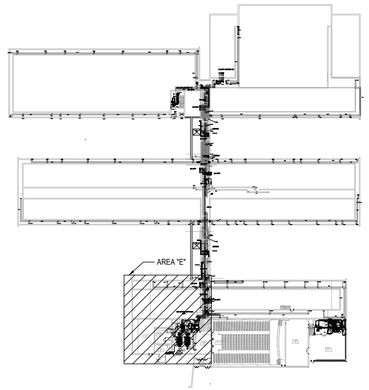
1. MC SHALL VERIFY AND DRAW UP THE EXACT BOILER ROOM PIPING LAYOUT & PROVIDE A SCALED PIPING SHOP DRAWING FOR REVIEW/APPROVAL PROCESS PRIOR TO START OF ANY DEMOLITION & NEW WORK.
2. MC SHALL ALSO HIRE A.N.E.B.B.-CERTIFIED TESTING & BALANCING CONTRACTOR TO TAKE BASELINE READINGS FOR THE FOLLOWING:
   A) EXISTING BOILER PRIMARY HOT WATER PUMPS (GPM, RPM, SUCTION SIDE & DISCHARGE SIDE PRESSURE)
   B) EXISTING GLYCOL SYSTEM HOT WATER PUMPS (GPM, RPM, SUCTION SIDE & DISCHARGE SIDE PRESSURE)
   C) EXISTING SYSTEM #1 HOT WATER PUMPS (GPM, RPM, SUCTION SIDE & DISCHARGE SIDE PRESSURE)
   D) EXISTING SYSTEM #2 HOT WATER PUMPS (GPM, RPM, SUCTION SIDE & DISCHARGE SIDE PRESSURE) PUMP IS LOCATED IN BASEMENT MECHANICAL ROOM IN AREA "A".

   THE BASELINE READINGS ARE TO THEN BE PUT INTO A REPORT & SENT TO ENGINEER OF RECORD FOR REVIEW & COMMENTING PRIOR TO START OF ANY DEMOLITION & NEW WORK.

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - BOILER ROOM-PIPING SHOP DRAWING FOR DEMOLITION PLAN AND PROPOSED/NEW WORK PLAN NOTES:

MC SHALL GENERATE A SCALED PIPING SHOP DRAWING OF THE EXISTING CONDITIONS IN BOILER ROOM FOR REVIEW APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD PRIOR TO START OF ANY DEMOLITION WORK. MC SHALL SHOW ON THE EXISTING CONDITIONS PIPING SHOP PLAN, IF ANY EQUIPMENT IS IN A DIFFERENT PHYSICAL LOCATION VERSUS WHAT IS SHOWN ON THIS DESIGN PLAN & SHALL MAKE FLAG NOTES FOR IT.

MC SHALL ALSO PROVIDE A PROPOSED WORK/NEW WORK PIPING SHOP TO SHOW PROPOSED EQUIPMENT/PIPING IN THE LOCATIONS BASED ON THE EXISTING CONDITIONS PIPING SHOP DRAWING FOR REVIEW/APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD.



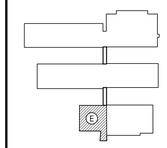
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

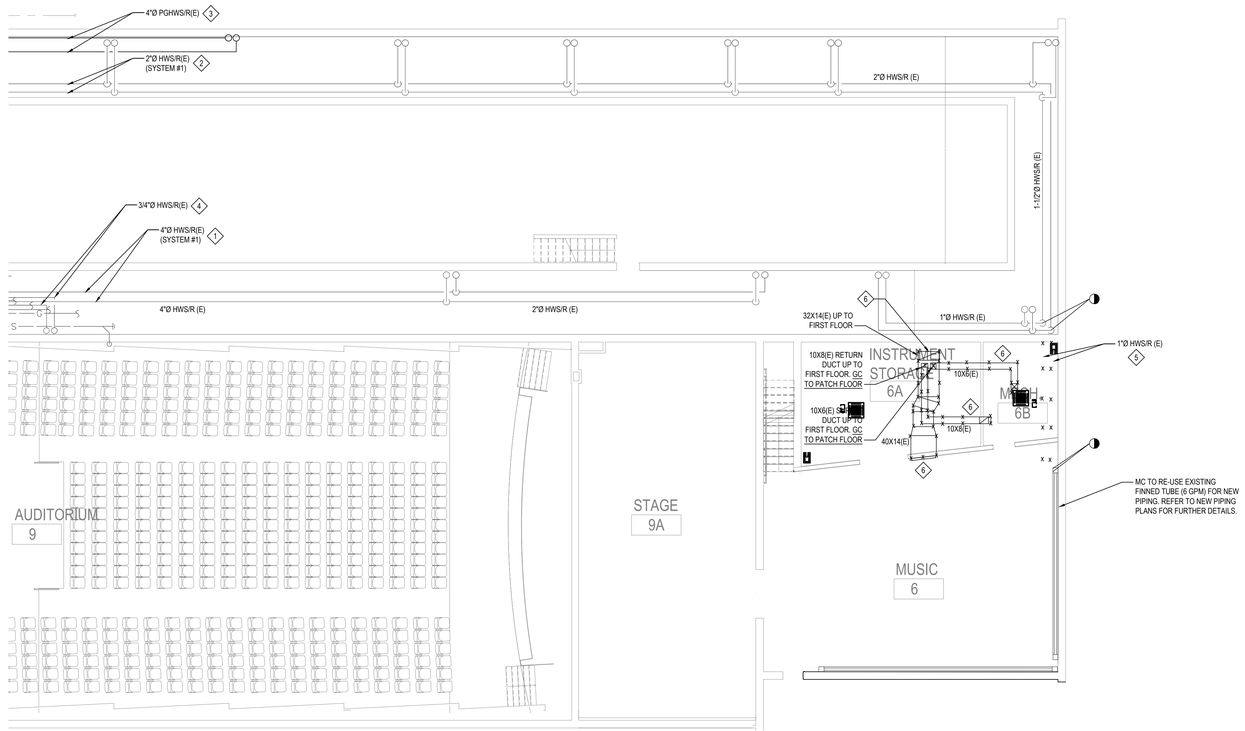
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "E"-BASEMENT MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.11



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "F" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "F" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 4"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
2. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 2"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
3. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 4"Ø PROPYLENE GLYCOL HWS/R BRANCH PIPING SHOWN.
4. MC SHALL CUT & CAP & DRAIN & PERMANENTLY ABANDON EXISTING 3/4"Ø HWS/R (SYSTEM #1) BRANCH PIPING SHOWN.
5. MC SHALL DEMO & REMOVE EXISTING HWS/R LINES SHOWN & PERMANENTLY CAP EXISTING PIPING IN BASEMENT TUNNELS AND ABANDON. REFER TO NEW PIPING WORK PLANS FOR FURTHER DETAILS OF NEW WORK SCOPE.
6. MC SHALL DEMO & REMOVE EXISTING SUPPLY & RETURN DUCTWORK SHOWN ON PLANS. REFER TO PLANS FOR DUCTWORK SIZES.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
4. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

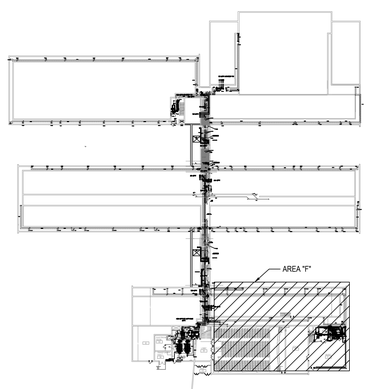
EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
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3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



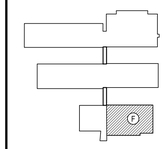
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "F"-BASEMENT MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

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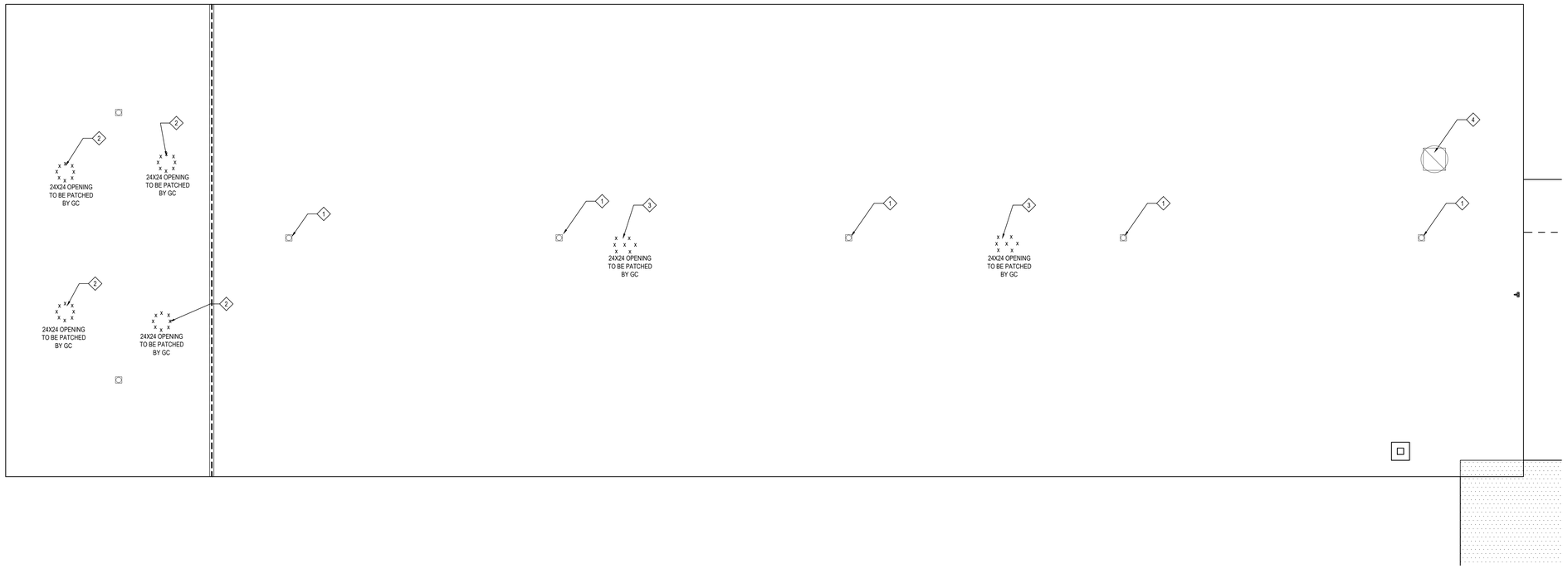
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M1.12



ROOF LEVEL -MIDDLE SCHOOL- AREA "A" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. EXISTING ROOF DRAIN TO REMAIN AND IS SHOWN ONLY FOR COORDINATION PURPOSES.
2. MC SHALL DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN SYSTEM. MC TO HAVE EC PERMANENTLY DISCONNECT POWER TO EXISTING FAN SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
3. MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
4. EXISTING ROOFTOP TOILET EXHAUST FAN SYSTEM TO REMAIN (NOT IN CONTRACT)

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
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3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REMAINING EQUIPMENT ROOF CURB NOTES:

MECHANICAL ENGINEER IS SHALL FIELD MEASURE THE EXACT DIMENSIONS OF EACH ROOF CURB THAT IS SHOWN ON THE PLANS TO REMAIN WHICH IS NOT SCHEDULED FOR DEMOLITION WORK.

UPON MEASUREMENT OF THE DIMENSIONS OF EACH CURB, MC SHALL THEN REMOVE EXISTING ROOF CURBS AND FURNISH NEW ROOF CURBS THAT MATCH DIMENSIONS OF EXISTING REMOVED ROOF CURB & NOW ARE 24 INCHES IN HEIGHT FOR ALL NEW ROOF CURBS BEING REPLACED.

MC SHALL PROVIDE NEW 24 INCH HEIGHT REPLACEMENT ROOF CURBS TO PROJECT GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.

EXISTING EQUIPMENT FOR CURB SHALL BE RE-USED WITH NEW 24 INCH HEIGHT ROOF CURB.

MC SHALL THEN EXTEND EXISTING DUCTWORK WITHIN NEW ROOF CURB TO CONNECT BACK TO EXISTING EQUIPMENT ON NEW 24 INCH HEIGHT ROOF CURB.

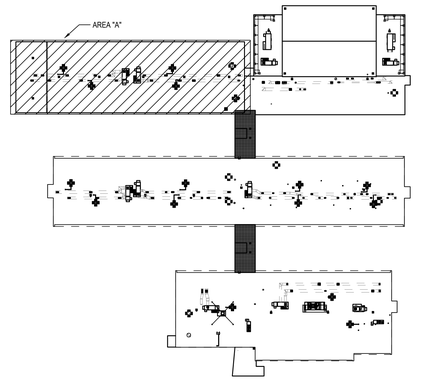
MC TO REFER TO KEY PLAN NOTES TO SEE WHICH EXISTING EQUIPMENT ON ROOF IS TO REMAIN.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.



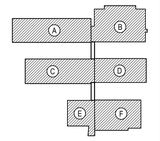
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "A"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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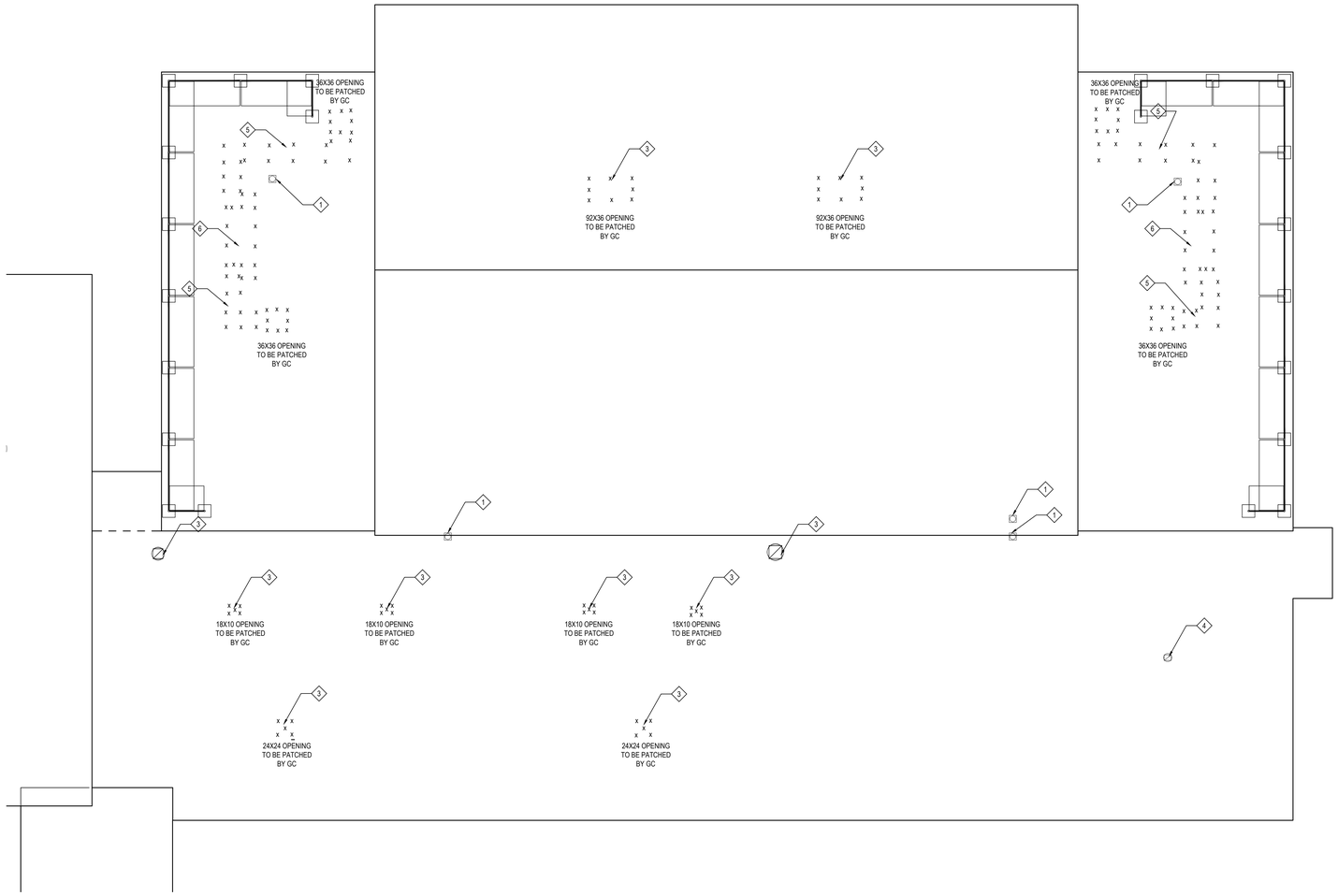
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M1.13



ROOF LEVEL -MIDDLE SCHOOL- AREA "B" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "B" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. EXISTING ROOF DRAIN TO REMAIN AND IS SHOWN ONLY FOR COORDINATION PURPOSES.
2. MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF/FRESH AIR INTAKE AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
3. EXISTING ROOFTOP CLASSROOM EXHAUST FAN SYSTEM TO REMAIN (NOT IN CONTRACT)
4. EXISTING ROOFTOP TOILET EXHAUST FAN SYSTEM TO REMAIN (NOT IN CONTRACT)
5. MC SHALL DEMO & REMOVE EXISTING ROOFTOP DUCTWORK AS SHOWN. MC TO COORDINATE REMOVAL OF DUCT PENTRATION THROUGH ROOF WITH GC. GC TO PATCH OPENING. REFER TO PLANS FOR ROOF OPENING FOR GC TO PATCH.
6. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT AS SHOWN. MC TO HAVE GC REMOVE SUPPORTS FOR UNIT WHICH ARE FLASHED INTO ROOF. GC TO ROOF.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

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EXISTING REMAINING EQUIPMENT ROOF CURB NOTES:

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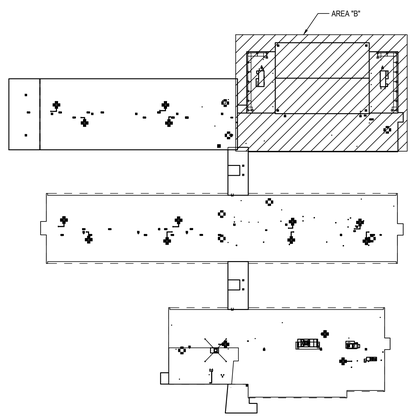
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MC SHALL PROVIDE NEW 24 INCH HEIGHT REPLACEMENT ROOF CURBS TO PROJECT GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.

EXISTING EQUIPMENT FOR CURB SHALL BE RE-USED WITH NEW 24 INCH HEIGHT ROOF CURB.

MC SHALL THEN EXTEND EXISTING DUCTWORK WITHIN NEW ROOF CURB TO CONNECT BACK TO EXISTING EQUIPMENT ON NEW 24 INCH HEIGHT ROOF CURB.

MC TO REFER TO KEY PLAN NOTES TO SEE WHICH EXISTING EQUIPMENT ON ROOF IS TO REMAIN.



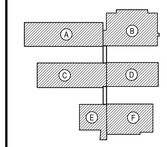
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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "B"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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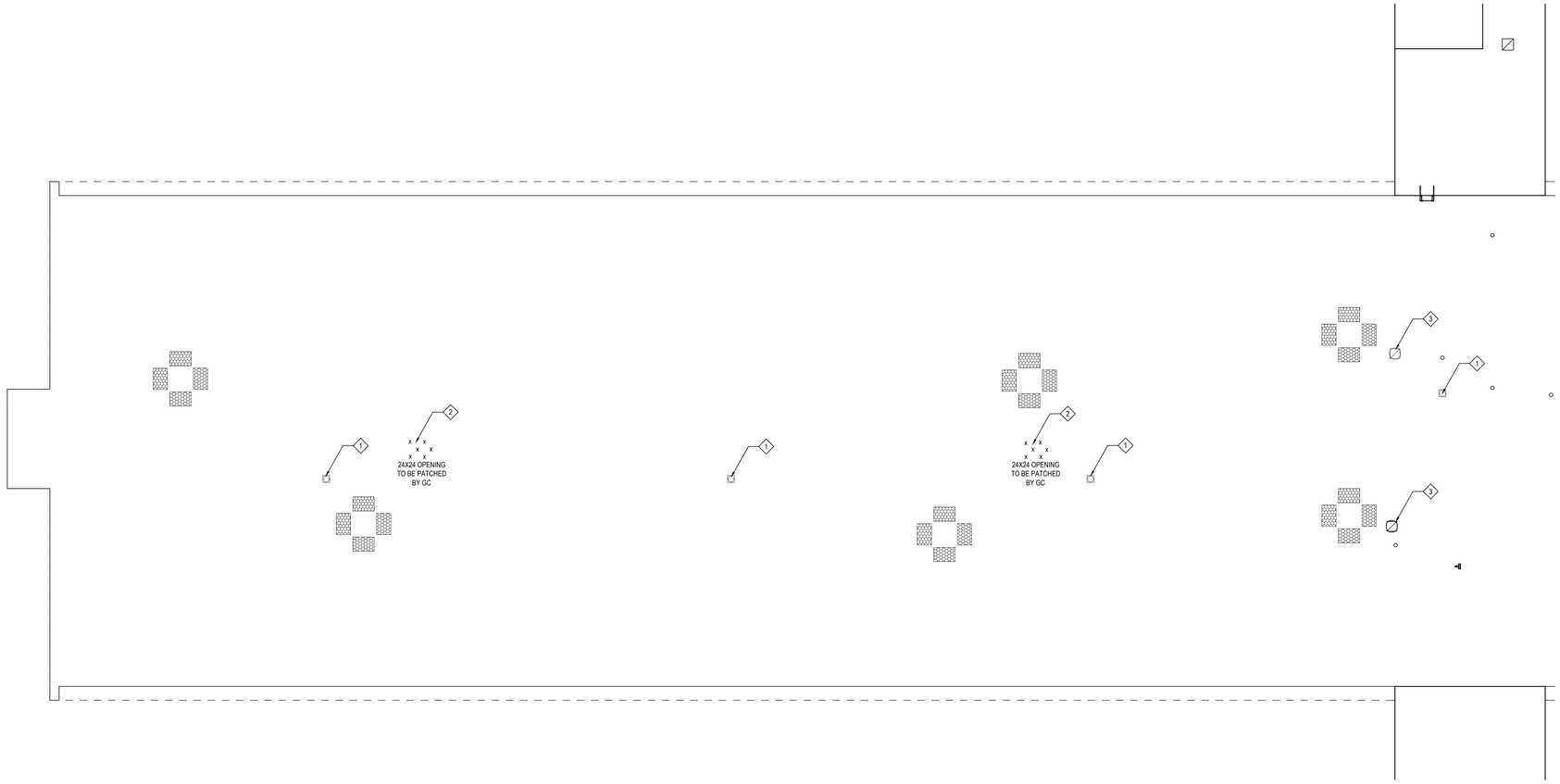
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-ROOF LEVEL MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M1.14



ROOF LEVEL -MIDDLE SCHOOL- AREA "C" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "C" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. EXISTING ROOF DRAIN TO REMAIN AND IS SHOWN ONLY FOR COORDINATION PURPOSES.
2. MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF/FRESH AIR INTAKE AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
3. EXISTING ROOFTOP TOILET EXHAUST FAN SYSTEM TO REMAIN (NOT IN CONTRACT)

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

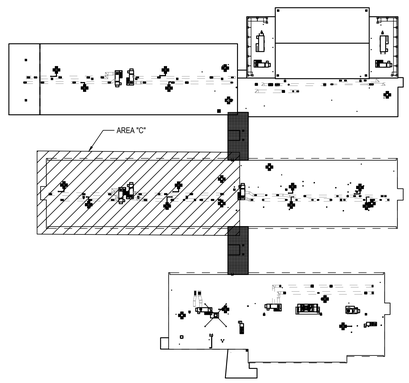
MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
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   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



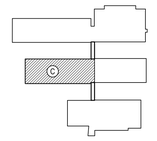
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "C"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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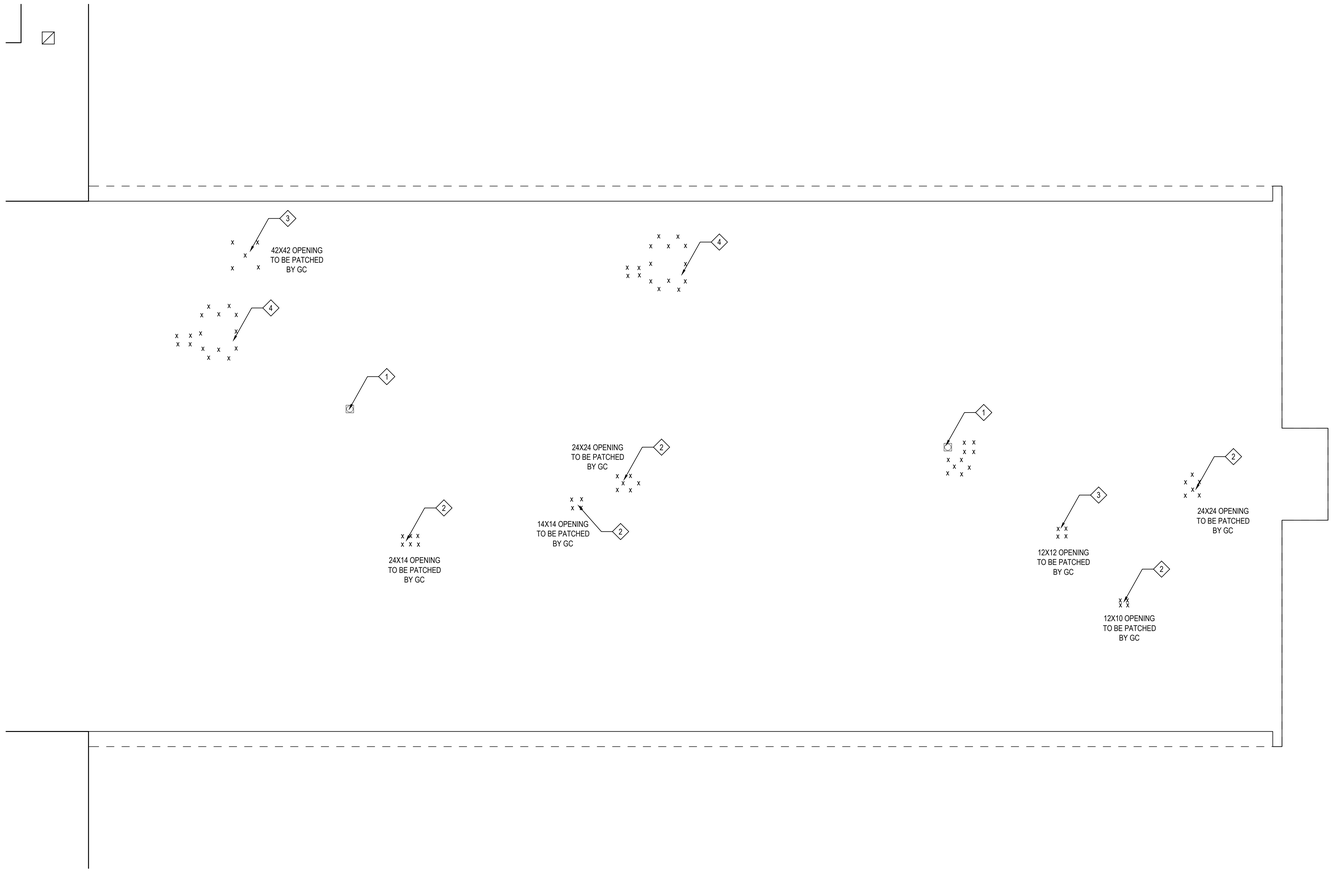
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M1.15



ROOF LEVEL -MIDDLE SCHOOL- AREA "D" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "D" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

EXISTING ROOF DRAIN TO REMAIN AND IS SHOWN ONLY FOR COORDINATION PURPOSES.

MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF/FRESH AIR INTAKE AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.

MC SHALL DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN SYSTEM. MC TO HAVE EC PERMANENTLY DISCONNECT POWER TO EXISTING FAN SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.

1. MC SHALL DEMO & REMOVE EXISTING ROOFTOP OUTDOOR CONDENSING SPLIT SYSTEM UNIT. THE MC SHALL REMOVE THE FOLLOWING:
   - A) OUTDOOR CONDENSING UNIT.
   - B) MC SHALL HAVE GC REMOVE EXISTING THY CURB SUPPORTS & PATCH ROOF FLASHING AFTER REMOVAL.
2. C) MC TO DEMO & REMOVE EXISTING REFRIGERANT LINE SET PIPING. MC TO HAVE GC PATCH EXISTING PITCH POCKET IN ROOF AFTER REMOVAL OF REFRIGERANT PIPING.

3 GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
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3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING REMAINING EQUIPMENT ROOF CURB NOTES:

MECHANICAL ENGINEER IS SHALL FIELD MEASURE THE EXACT DIMENSIONS OF EACH ROOF CURB THAT IS SHOWN ON THE PLANS TO REMAIN WHICH IS NOT SCHEDULED FOR DEMOLITION WORK.

UPON MEASUREMENT OF THE DIMENSIONS OF EACH CURB, MC SHALL THEN REMOVE EXISTING ROOF CURBS AND FURNISH NEW ROOF CURBS THAT MATCH DIMENSIONS OF EXISTING REMOVED ROOF CURB & NOW ARE 24 INCHES IN HEIGHT FOR ALL NEW ROOF CURBS BEING REPLACED.

MC SHALL PROVIDE NEW 24 INCH HEIGHT REPLACEMENT ROOF CURBS TO PROJECT GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.

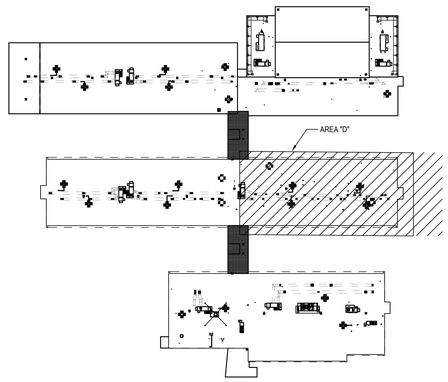
EXISTING EQUIPMENT FOR CURB SHALL BE RE-USED WITH NEW 24 INCH HEIGHT ROOF CURB.

MC SHALL THEN EXTEND EXISTING DUCTWORK WITHIN NEW ROOF CURB TO CONNECT BACK TO EXISTING EQUIPMENT ON NEW 24 INCH HEIGHT ROOF CURB.

MC TO REFER TO KEY PLAN NOTES TO SEE WHICH EXISTING EQUIPMENT ON ROOF IS TO REMAIN.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.



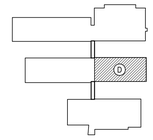
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

MECHANICAL

AREA "D"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

PROJECT

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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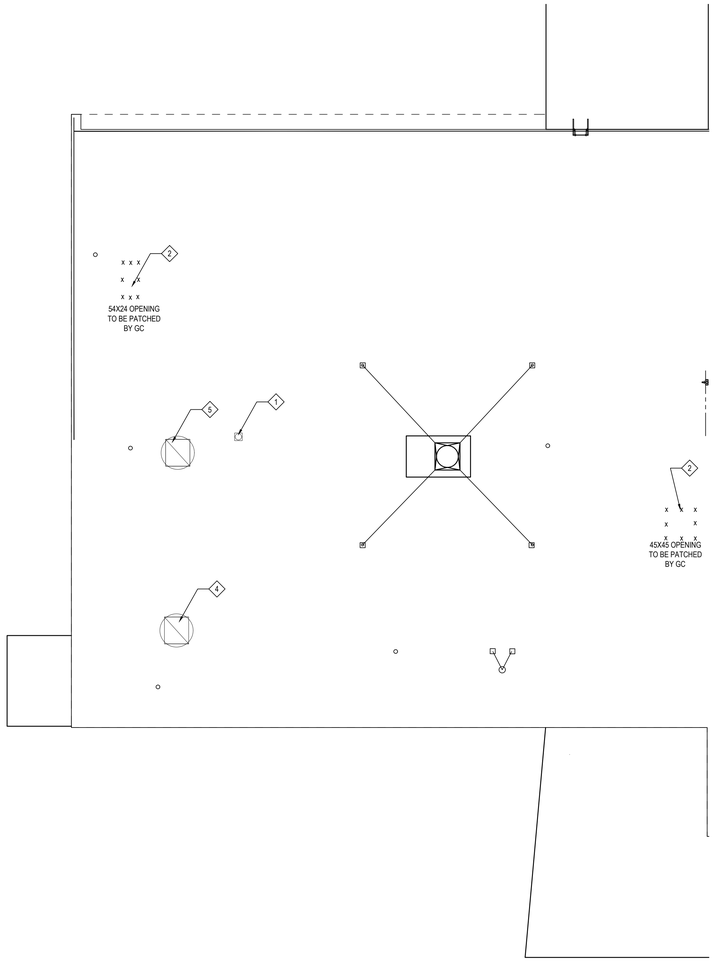
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DWG TITLE	AREA "D"-ROOF LEVEL MECH. DEMOLITION WORK PLAN
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ROOF LEVEL -MIDDLE SCHOOL- AREA "E" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. EXISTING ROOF DRAIN TO REMAIN AND IS SHOWN ONLY FOR COORDINATION PURPOSES.
2. MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF/FRESH AIR INTAKE AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
3. EXISTING BOILER ROOM CHIMNEY SHOWN FOR COORDINATION PURPOSES.
4. EXISTING KITCHEN EXHAUST HOOD FAN TO REMAIN & IS ONLY SHOWN FOR COORDINATION PURPOSES.
5. EXISTING KITCHEN HOOD FAN TO REMAIN & IS ONLY SHOWN FOR COORDINATION PURPOSES.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

MECHANICAL DEMOLITION GENERAL NOTES:

MECHANICAL ENGINEER IS TO FIRST CONDUCT A PRE-CONSTRUCTION SURVEY & WALK THROUGH OF ALL AREAS SHOWN WHERE DEMOLITION WORK IS TO COMMENCE. IF THERE ARE MECHANICAL SYSTEMS, ITEMS, PIPING, DUCTWORK, ETC THAT ARE SEEN WHICH ARE NOT REFLECTED ON THE PLANS, THE MC SHALL PROVIDE A SCALED SHOP DRAWING/SKETCH DRAWING SHOWING THESE ITEMS AND SHALL ASK ARCHITECT/ENGINEER OF RECORD WHETHER ITEM IS TO BE INCLUDED IN THE DEMOLITION SCOPE OR NOT.

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MECHANICAL ENGINEER IS SHALL FIELD MEASURE THE EXACT DIMENSIONS OF EACH ROOF CURB THAT IS SHOWN ON THE PLANS TO REMAIN WHICH IS NOT SCHEDULED FOR DEMOLITION WORK.

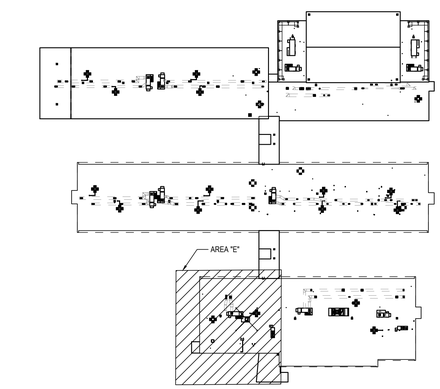
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MC SHALL PROVIDE NEW 24 INCH HEIGHT REPLACEMENT ROOF CURBS TO PROJECT GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.

EXISTING EQUIPMENT FOR CURB SHALL BE RE-USED WITH NEW 24 INCH HEIGHT ROOF CURB.

MC SHALL THEN EXTEND EXISTING DUCTWORK WITHIN NEW ROOF CURB TO CONNECT BACK TO EXISTING EQUIPMENT ON NEW 24 INCH HEIGHT ROOF CURB.

MC TO REFER TO KEY PLAN NOTES TO SEE WHICH EXISTING EQUIPMENT ON ROOF IS TO REMAIN.



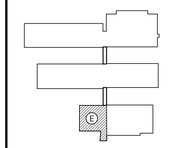
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MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "E"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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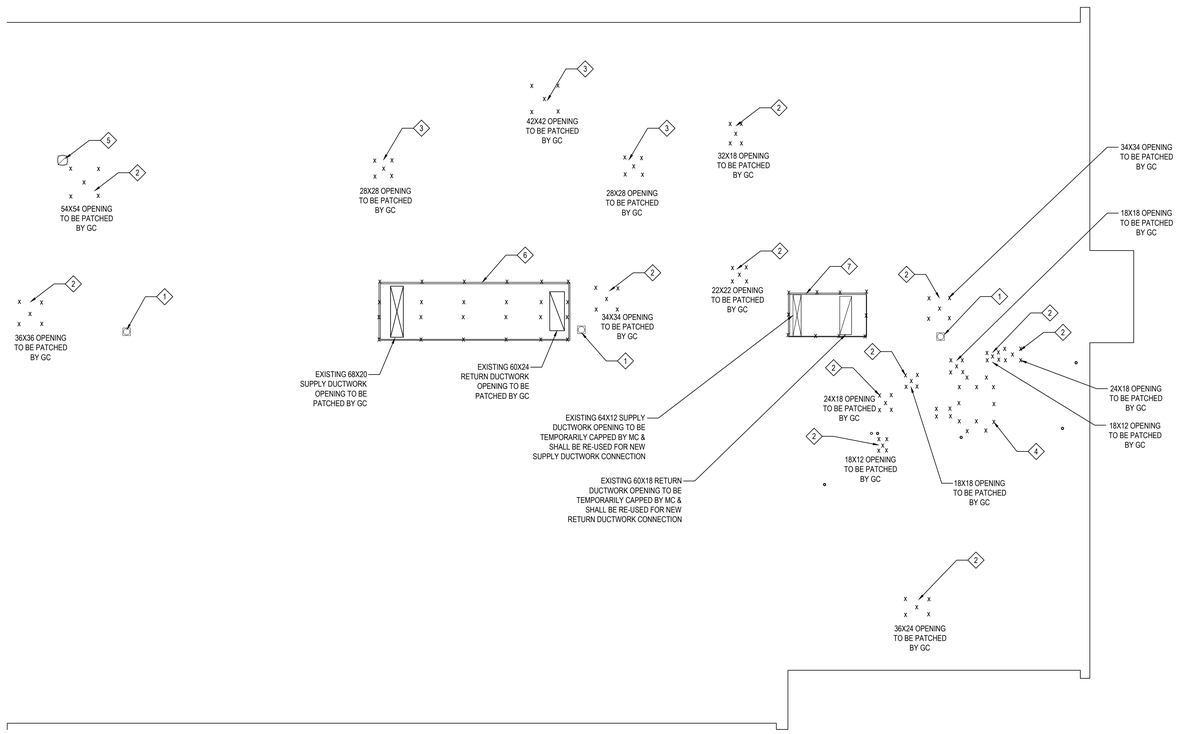
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ROOF LEVEL -MIDDLE SCHOOL- AREA "F" - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES:

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2. MC SHALL DEMO & REMOVE EXISTING ROOFTOP RELIEF/FRESH AIR INTAKE AIR SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
3. MC SHALL DEMO & REMOVE EXISTING ROOFTOP EXHAUST FAN SYSTEM. MC TO HAVE EC PERMANENTLY DISCONNECT POWER TO EXISTING FAN SYSTEM. MC TO HAVE GC PRESENT WHEN MC REMOVES EQUIPMENT ON ROOF. REFER TO DRAWING FOR APPROXIMATE SIZE OF OPENING THAT IS TO BE PATCHED BY GC.
4. MC SHALL DEMO & REMOVE EXISTING ROOFTOP OUTDOOR CONDENSING SPLIT SYSTEM UNIT. THE MC SHALL REMOVE THE FOLLOWING:
   - A) OUTDOOR CONDENSING UNIT.
   - B) MC SHALL HAVE GC REMOVE EXISTING THY CURB SUPPORTS & PATCH ROOF FLASHING AFTER REMOVAL.
   - C) MC TO DEMO & REMOVE EXISTING REFRIGERANT LINE SET PIPING. MC TO HAVE GC PATCH EXISTING PITCH POCKET IN ROOF AFTER REMOVAL OF REFRIGERANT PIPING.
5. EXISTING ROOFTOP TOILET EXHAUST SYSTEM FAN TO REMAIN & BE RE-USED (NOT IN CONTRACT)
6. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT SERVING AUDITORIUM SPACE. MC SHALL DO THE FOLLOWING:
   - A) MC TO HAVE EC PERMANENTLY DISCONNECT POWER TO UNIT BEFORE START OF DEMO WORK.
   - B) MC SHALL DEMO & REMOVE THE EXISTING ROOF CURB.
   - C) MC SHALL DEMO EXISTING SUPPLY & RETURN DUCTWORK BELOW ROOF. REFER TO FIRST FLOOR AREA "F" DEMOLITION WORK PLANS FOR FURTHER DETAILS. MC TO HAVE GC PATCH EXISTING SUPPLY & RETURN DUCTWORK ROOF OPENINGS. NEW ROOFTOP UNIT TO BE ON DUNNAGE WITH NEW SUPPLY & RETURN DUCTWORK OPENINGS.
   - D) REFER TO NEW WORK PLANS FOR FURTHER SCOPE DETAILS FOR NEW EQUIPMENT.
7. MC SHALL DEMO & REMOVE EXISTING ROOFTOP UNIT SERVING MUSIC ROOM SPACE. MC SHALL DO THE FOLLOWING:
   - A) MC TO HAVE EC PERMANENTLY DISCONNECT POWER TO UNIT BEFORE START OF DEMO WORK.
   - B) MC SHALL DEMO & REMOVE THE EXISTING ROOF CURB.
   - C) MC SHALL DEMO EXISTING SUPPLY & RETURN DUCTWORK BELOW ROOF. REFER TO FIRST FLOOR AREA "F" DEMOLITION WORK PLANS FOR FURTHER DETAILS. MC SHALL TEMPORARILY CAP EXISTING SUPPLY & RETURN DUCTWORK OPENS TO RE-USE TO CONNECT NEW SUPPLY & RETURN DUCTWORK TO FOR NEW UNIT WHICH IS TO BE ON DUNNAGE.
   - D) REFER TO NEW WORK PLANS FOR FURTHER SCOPE DETAILS FOR NEW EQUIPMENT.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
2. MC SHALL BE REQUIRED TO COORDINATE ALL EXISTING EQUIPMENT CALLED FOR REMOVAL WITH PROJECT GC PRESENT.
3. MC AND GC SHALL VERIFY IN THE FIELD THE EXACT SIZE OF THE OPENINGS THAT ARE TO BE PATCHED BY GC AFTER EQUIPMENT REMOVAL.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

EXISTING REFRIGERANT SYSTEM DISPOSAL NOTES:

MECHANICAL ENGINEER SHALL CAREFULLY COLLECT & CAPTURE ALL EXISTING REFRIGERANT FROM EXISTING AC SYSTEMS THAT ARE SCHEDULED FOR DEMOLITION/REMOVAL. MC SHALL COLLECT REFRIGERANT AND CLEARLY LABEL REFRIGERANT TYPE. MC SHALL THEN LEGALLY DISPOSE OF REFRIGERANT.

EXISTING REMAINING EQUIPMENT ROOF CURB NOTES:

MECHANICAL ENGINEER IS SHALL FIELD MEASURE THE EXACT DIMENSIONS OF EACH ROOF CURB THAT IS SHOWN ON THE PLANS TO REMAIN WHICH IS NOT SCHEDULED FOR DEMOLITION WORK.

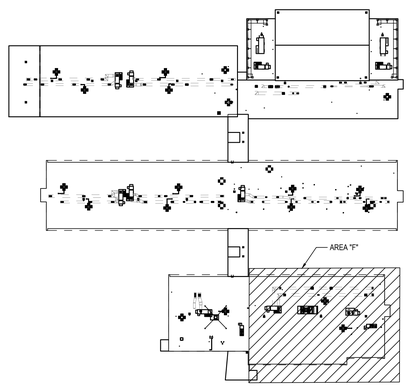
UPON MEASUREMENT OF THE DIMENSIONS OF EACH CURB, MC SHALL THEN REMOVE EXISTING ROOF CURBS AND FURNISH NEW ROOF CURBS THAT MATCH DIMENSIONS OF EXISTING REMOVED ROOF CURB & NOW ARE 24 INCHES IN HEIGHT FOR ALL NEW ROOF CURBS BEING REPLACED.

MC SHALL PROVIDE NEW 24 INCH HEIGHT REPLACEMENT ROOF CURBS TO PROJECT GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.

EXISTING EQUIPMENT FOR CURB SHALL BE RE-USED WITH NEW 24 INCH HEIGHT ROOF CURB.

MC SHALL THEN EXTEND EXISTING DUCTWORK WITHIN NEW ROOF CURB TO CONNECT BACK TO EXISTING EQUIPMENT ON NEW 24 INCH HEIGHT ROOF CURB.

MC TO REFER TO KEY PLAN NOTES TO SEE WHICH EXISTING EQUIPMENT ON ROOF IS TO REMAIN.



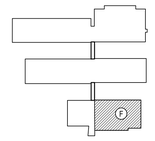
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-ROOF LEVEL MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: AREA "F"-ROOF LEVEL MECH. DEMOLITION WORK PLAN

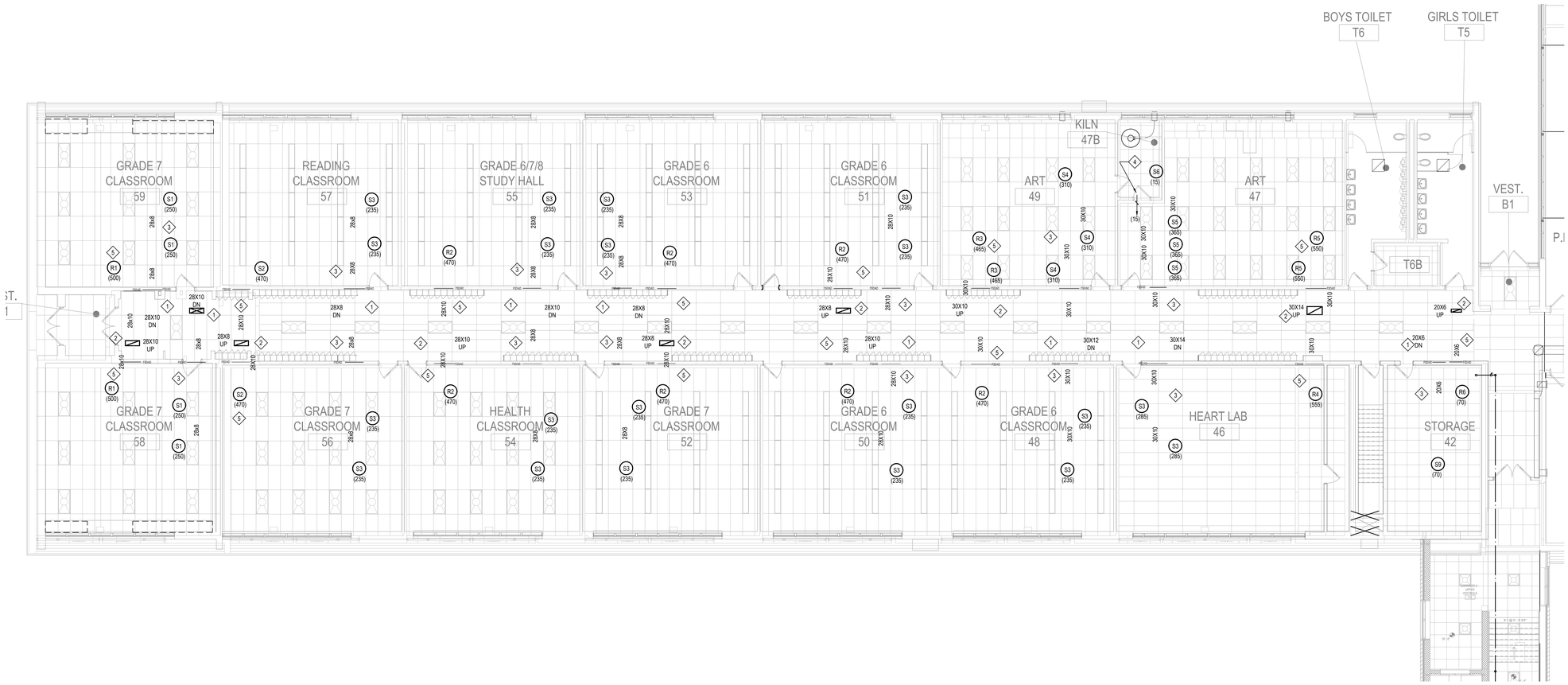
SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M1.18



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

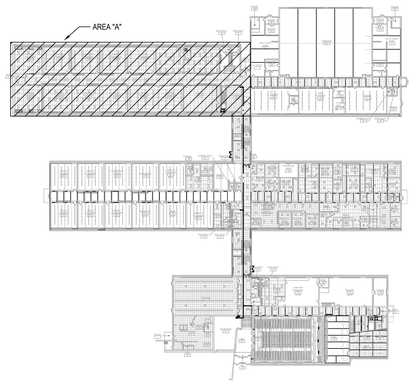
1. MC SHALL RUN NEW SUPPLY DUCTWORK BRANCH DOWN FROM ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
2. MC SHALL RUN NEW EXHAUST DUCTWORK BRANCH UP TO ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW SUPPLY DUCTWORK BRANCHES WITHIN BAR JOIST HAUNCH AS SHOWN. MC SHALL USE FLEX DUCT WHERE REQUIRED TO INSTALL NEW 24X24 LAY-IN CEILING 4-WAY SUPPLY DIFFUSERS AS SHOWN OR SURFACE MOUNTED 12X12 4-WAY SUPPLY DIFFUSER AS SHOWN. MC SHALL COORDINATE WORK WITH GC AS GC IS TO INSTALL NEW DROP CEILING GRID. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF NEW CEILING GRID WORK.
4. RETURN AIR VIA DOOR UNDERCUT. REFER TO PLANS FOR CFM VALUES.
5. MC SHALL RUN NEW RETURN DUCTWORK BRANCHES WITHIN BAR JOIST HAUNCH AS SHOWN. MC SHALL USE FLEX DUCT WHERE REQUIRED TO INSTALL NEW 24X24 LAY-IN CEILING RETURN GRILLES AS SHOWN OR SURFACE MOUNTED 12X12 RETURN GRILLES AS SHOWN. MC SHALL COORDINATE WORK WITH GC AS GC IS TO INSTALL NEW DROP CEILING GRID. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF NEW CEILING GRID WORK.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S)
6. REFER TO NEW HOT WATER PIPING PLANS FOR NEW DDC THERMOSTAT LOCATIONS.

NEW DUCTWORK GENERAL INSTALLATION NOTES:

1. MC SHALL PROVIDE A SCALED DUCTWORK SHOP DRAWING PRIOR TO START OF NEW WORK FOR REVIEW & APPROVAL PROCESS.
2. MC SHALL DRAW ALL EXISTING BEAMS, BAR JOISTS, STRUCTURES ON SOP DRAWING & SHOW VERTICAL HEIGHTS WITH RESPECT TO EXISTING FINISHED FLOOR(S).
3. MC SHALL COORDINATE ALL INSTALLATION WORK WITH ALL OTHER PROJECT TRADES (GC, EC, ETC.).



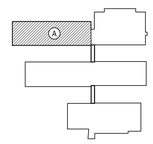
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "A"-FIRST FLOOR NEW DUCTWORK WORK PLAN

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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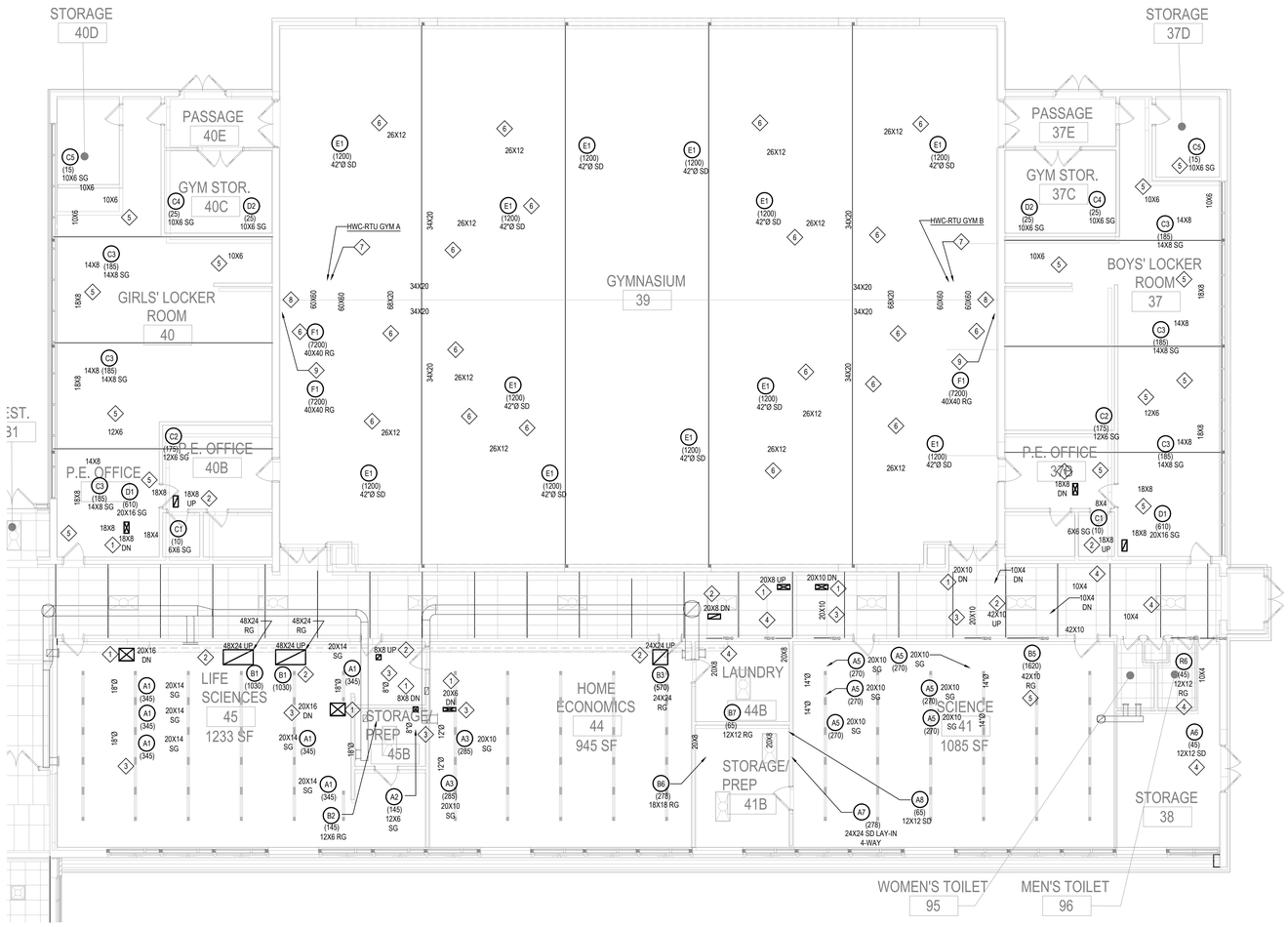
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-FIRST FLOOR NEW DUCTWORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.01



FIRST FLOOR -MIDDLE SCHOOL- AREA "B" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "B" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

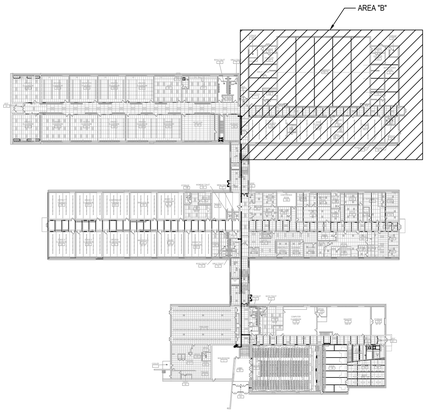
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2. MC SHALL RUN NEW EXHAUST DUCTWORK BRANCH UP TO ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. MC SHALL RUN CIRCULAR SPIRAL EXPOSED DUCTWORK WITH SIZES NOTED ON PLANS & NEW SUPPLY AIR OUTLETS WITH SIZES NOTED ON PLANS. THE NEW AIR OUTLETS SHALL BE DUCT MOUNTED FOR RECTANGULAR DUCTWORK AND SHALL BE WITHIN DUCTWORK FOR CIRCULAR SPIRAL DUCTWORK. AIR OUTLETS IN CIRCULAR SPIRAL DUCTWORK SHALL HAVE AIR SCOOPS FOR EACH SUPPLY GRILLE FOR BALANCING OF AIRFLOW. PROPOSED CEILING SHALL BE AN OPEN CEILING. MC SHALL HAVE GC PAINT DUCTWORK TO COLOR SELECTED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
4. MC SHALL RUN NEW DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. MC SHALL USE FLEX DUCT WHERE REQUIRED TO INSTALL NEW 24X24 LAY-IN CEILING 4-WAY SUPPLY DIFFUSERS AS SHOWN OR SURFACE MOUNTED 12X12 4-WAY SUPPLY DIFFUSER AS SHOWN. MC SHALL COORDINATE WORK WITH GC AS GC IS TO INSTALL NEW DROP CEILING GRID. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF NEW CEILING GRID WORK.
4. MC SHALL RUN NEW DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN FURNISH & INSTALL A NEW WALL GRILLE AS SHOWN WITH SIZE INDICATED ON THE PLANS.
5. MC SHALL RUN NEW DUCTWORK ALL EXPOSED AS SHOWN IN SPACE & PROVIDE SUPPLY AND/OR EXHAUST GRILLES. ALL DUCTWORK SIZES AND SUPPLY/EXHAUST GRILLE SIZES INDICATED ON PLANS. ALL DUCTWORK TO BE RUN BELOW ALL EXISTING STRUCTURE IN OPEN CEILING SPACE.
6. MC SHALL RUN NEW GYMNASIUM SYSTEM DUCTWORK ALL EXPOSED & THROUGH WEBBING OF EXISTING TRUSS STRUCTURES AS SHOWN IN SPACE & PROVIDE SUPPLY DIFFUSERS CONNECTED TO DUCTWORK. ALL DUCTWORK SIZES AND SUPPLY & EXHAUST GRILLE SIZES INDICATED ON PLANS. ALL DUCTWORK TO BE HEAVY 14-GAUGE & SHALL BE PAINTED TO COLOR SELECTED BY ARCHITECT OF RECORD. GC TO PAINT DUCTWORK.
7. MC SHALL FURNISH & INSTALL NEW HOT WATER DUCT COIL FOR EACH UNIT AS SHOWN. REFER TO PLANS FOR TAGS AND REFER TO SCHEDULE FOR COIL SIZES.
8. MC SHALL RUN FROM EXTERIOR NEW 72X48 SUPPLY DUCTWORK FROM NEW GYMNASIUM ROOFTOP UNIT THROUGH EXISTING 72X48 OPENING IN WALL. MC TO THEN RUN 72X48 DUCT & TRANSITION TO 60X60 & CONNECT TO HOT WATER DUCT COIL AS SHOWN ON PLANS. FROM COIL, MC TO THEN TRANSITION TO 68X20 SUPPLY DUCTWORK AND RUN DUCTWORK AS SHOWN ON PLANS.
9. MC SHALL FURNISH & INSTALL NEW 40X40 WALL MOUNTED HEAVY GAUGE RETURN GRILLE AS SHOWN. MC TO HAVE GC CUT 40X40 OPENING IN WALL BELOW EXISTING 72X48 OPENING. REFER TO ROOF PLAN FOR CONTINUATION.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES. THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
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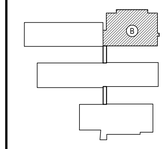
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-FIRST FLOOR NEW DUCTWORK WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

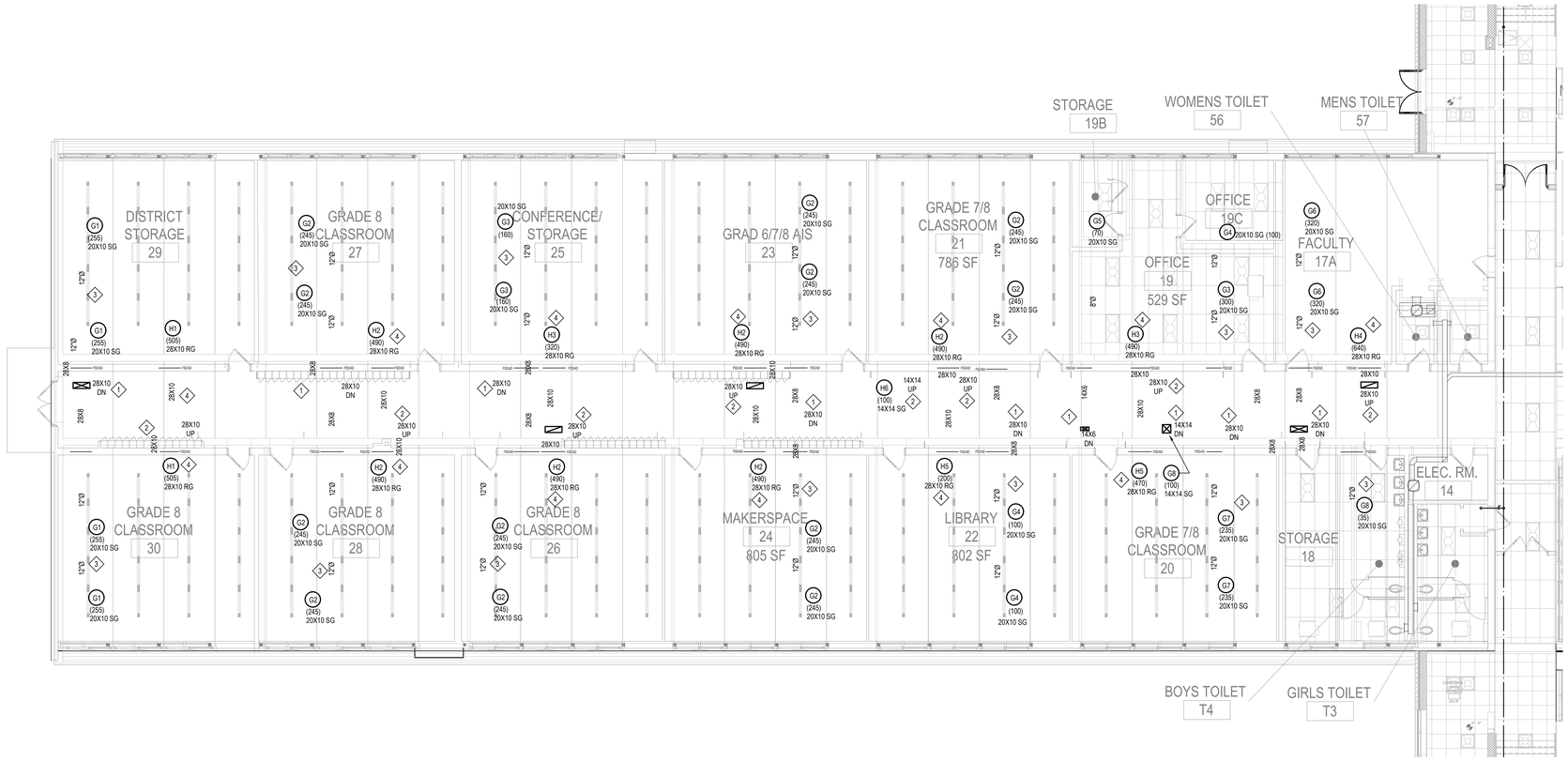
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M2.02



FIRST FLOOR -MIDDLE SCHOOL- AREA "C" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

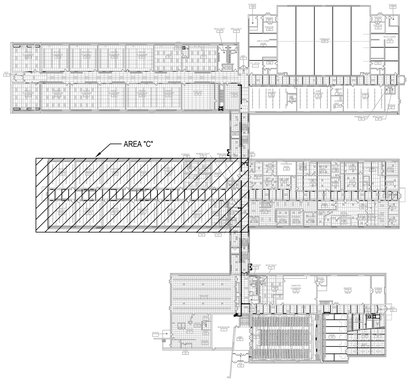
1. MC SHALL RUN NEW SUPPLY DUCTWORK BRANCH DOWN FROM ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
2. MC SHALL RUN NEW EXHAUST DUCTWORK BRANCH UP TO ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. MC SHALL RUN CIRCULAR SPIRAL EXPOSED DUCTWORK WITH SIZES NOTED ON PLANS & NEW SUPPLY AIR OUTLETS WITH SIZES NOTED ON PLANS. THE NEW AIR OUTLETS SHALL BE DUCT MOUNTED FOR RECTANGULAR DUCTWORK AND SHALL BE WITHIN DUCTWORK FOR CIRCULAR SPIRAL DUCTWORK. AIR OUTLETS IN CIRCULAR SPIRAL DUCTWORK SHALL HAVE AIR SCOOPS FOR EACH SUPPLY GRILLE FOR BALANCING OF AIRFLOW. PROPOSED CEILING SHALL BE AN OPEN CEILING. MC SHALL HAVE GC PAINT DUCTWORK TO COLOR SELECTED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
4. MC SHALL RUN NEW DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. MC SHALL USE FLEX DUCT WHERE REQUIRED TO INSTALL NEW 24X24 LAY-IN CEILING RETURN GRILLES AS SHOWN OR SURFACE MOUNTED 12X12 RETURN AS SHOWN. MC SHALL COORDINATE WORK WITH GC AS GC IS TO INSTALL NEW DROP CEILING GRID. REFER TO ARCHITECTURAL PLANS FOR DETAILS OF NEW CEILING GRID WORK.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S).
6. REFER TO NEW HOT WATER PIPING PLANS FOR NEW DDC THERMOSTAT LOCATIONS.

NEW DUCTWORK GENERAL INSTALLATION NOTES:

1. MC SHALL PROVIDE A SCALED DUCTWORK SHOP DRAWING PRIOR TO START OF NEW WORK FOR REVIEW & APPROVAL PROCESS.
2. MC SHALL DRAW ALL EXISTING BEAMS, BAR JOISTS, STRUCTURES ON SOP DRAWING & SHOW VERTICAL HEIGHTS WITH RESPECT TO EXISTING FINISHED FLOOR(S).
3. MC SHALL COORDINATE ALL INSTALLATION WORK WITH ALL OTHER PROJECT TRADES (GC, EC, ETC.).



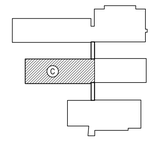
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-FIRST FLOOR NEW DUCTWORK WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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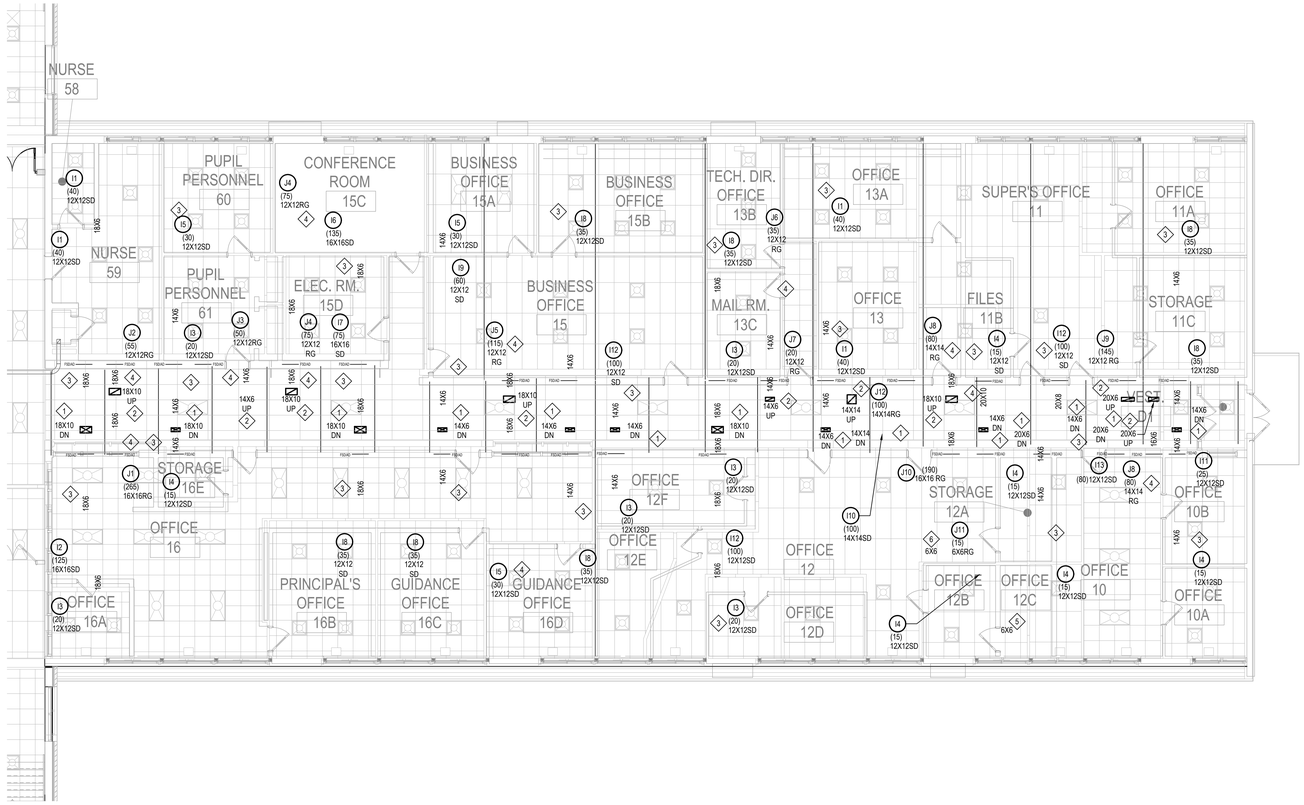
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C"-FIRST FLOOR NEW DUCTWORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.03



FIRST FLOOR -MIDDLE SCHOOL- AREA "D" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

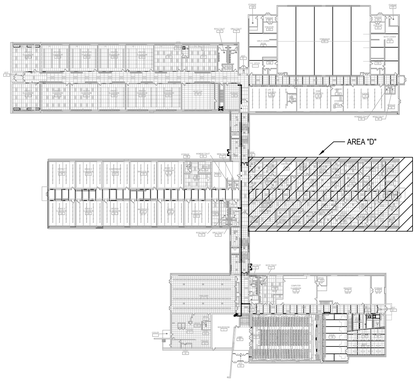
1. MC SHALL RUN NEW SUPPLY DUCTWORK BRANCH DOWN FROM ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
2. MC SHALL RUN NEW EXHAUST DUCTWORK BRANCH UP TO ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW SUPPLY DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. DUCTWORK SIZES NOTED ON PLANS & NEW SUPPLY AIR OUTLETS WITH SIZES NOTED ON PLANS.
4. MC SHALL RUN NEW RETURN DUCTWORK WITHIN STEEL BEAM HAUNCH AS SHOWN. DUCTWORK SIZES NOTED ON PLANS & NEW RETURN AIR OUTLETS WITH SIZES NOTED ON PLANS.
5. MC SHALL RUN NEW 6X6 C-SHAPED TRANSFER DUCT WITH OPEN ENDS IN CEILING PLENUM AS SHOWN. PROVIDE LINER AS PER SPECIFICATIONS.
6. MC SHALL RUN NEW 6X6 C-SHAPED TRANSFER DUCT WITH ONE OPEN END IN CEILING PLENUM AS SHOWN. OTHER END SHALL BE CONNECTED TO A NEW 6X6 RETURN GRILLE THAT SHALL BE SURFACE MOUNTED. PROVIDE LINER AS PER SPECIFICATIONS.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S).
6. REFER TO NEW HOT WATER PIPING PLANS FOR NEW DDC THERMOSTAT LOCATIONS.

NEW DUCTWORK GENERAL INSTALLATION NOTES:

1. MC SHALL PROVIDE A SCALED DUCTWORK SHOP DRAWING PRIOR TO START OF NEW WORK FOR REVIEW & APPROVAL PROCESS.
2. MC SHALL DRAW ALL EXISTING BEAMS, BAR JOISTS, STRUCTURES ON SOP DRAWING & SHOW VERTICAL HEIGHTS WITH RESPECT TO EXISTING FINISHED FLOOR(S).
3. MC SHALL COORDINATE ALL INSTALLATION WORK WITH ALL OTHER PROJECT TRADES (GC, EC, ETC.).



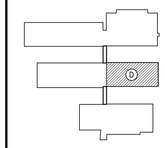
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "D"-FIRST FLOOR NEW DUCTWORK WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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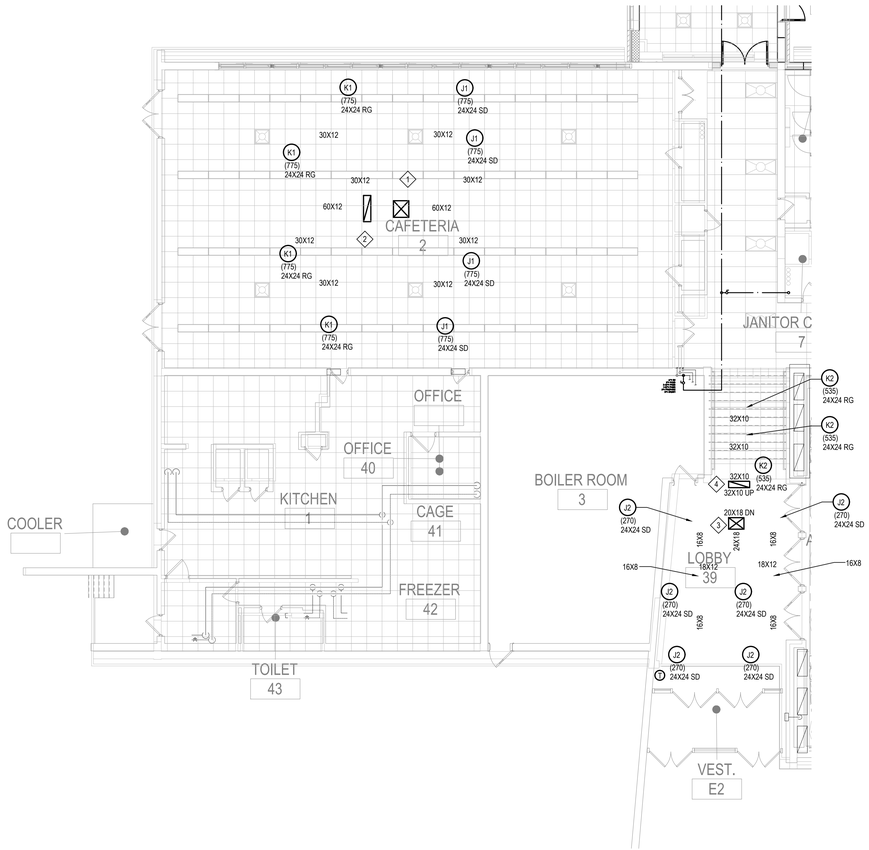
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-FIRST FLOOR NEW DUCTWORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.04



FIRST FLOOR -MIDDLE SCHOOL- AREA "E" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

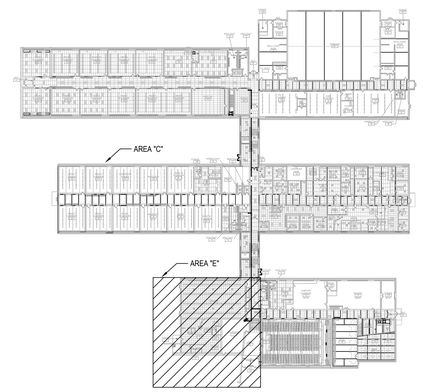
1. MC SHALL RUN NEW 26X24 SUPPLY DUCTWORK DOWN FROM ROOFTOP UNIT (DOAS-AUDITORIUM WING-CAFE) & TRANSITION TO 60X12 AS SHOWN & TURN DUCTWORK 90° DEGREES AND RUN 60X12 SUPPLY DUCT TRUNK AS SHOWN. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
2. MC SHALL RUN NEW 42X12 RETURN DUCTWORK DOWN FROM ROOFTOP UNIT (DOAS-AUDITORIUM WING-CAFE) & TRANSITION TO 60X12 AS SHOWN & TURN DUCTWORK 90° DEGREES AND RUN 60X12 RETURN DUCT TRUNK AS SHOWN. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW 24X18 SUPPLY DUCTWORK DOWN FROM ROOFTOP UNIT (RTU-LOBBY) & RUN 24X18 DUCT DOWN & CONNECT TO VERTICAL DUCT MOUNTED HOT WATER DUCT COIL (HWC-RTU-LOBBY) AS SHOWN. REFER TO NEW PIPING WORK PLAN FOR AREA FOR DETAILS ON PIPING. RUN 20X16 DUCT ON DISCHARGE SIDE OF COIL & SPLIT AS SHOWN. RUN DUCT BRANCHES TO SIZES AS SHOWN. PROVIDE VOLUME DAMPERS AS SHOWN.
4. MC SHALL RUN NEW 32X10 RETURN DUCTWORK DOWN FROM ROOFTOP UNIT (RTU-LOBBY) & TURN DUCTWORK 90° DEGREES AND RUN 32X10 RETURN DUCT TRUNK AS SHOWN. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK. RUN DUCTWORK TO SIZES AS SHOWN. PROVIDE VOLUME DAMPERS AS SHOWN.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S)
6. UNLESS OTHERWISE SHOWN OR NTOED ON PLANS, REFER TO NEW HOT WATER PIPING PLANS FOR NEW DDC THERMOSTAT LOCATIONS.

NEW DUCTWORK GENERAL INSTALLATION NOTES:

1. MC SHALL PROVIDE A SCALED DUCTWORK SHOP DRAWING PRIOR TO START OF NEW WORK FOR REVIEW & APPROVAL PROCESS.
2. MC SHALL DRAW ALL EXISTING BEAMS, BAR JOISTS, STRUCTURES ON SOP DRAWING & SHOW VERTICAL HEIGHTS WITH RESPECT TO EXISTING FINISHED FLOOR(S).
3. MC SHALL COORDINATE ALL INSTALLATION WORK WITH ALL OTHER PROJECT TRADES (GC, EC, ETC.).



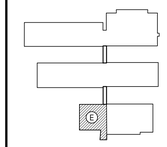
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-FIRST FLOOR NEW DUCTWORK WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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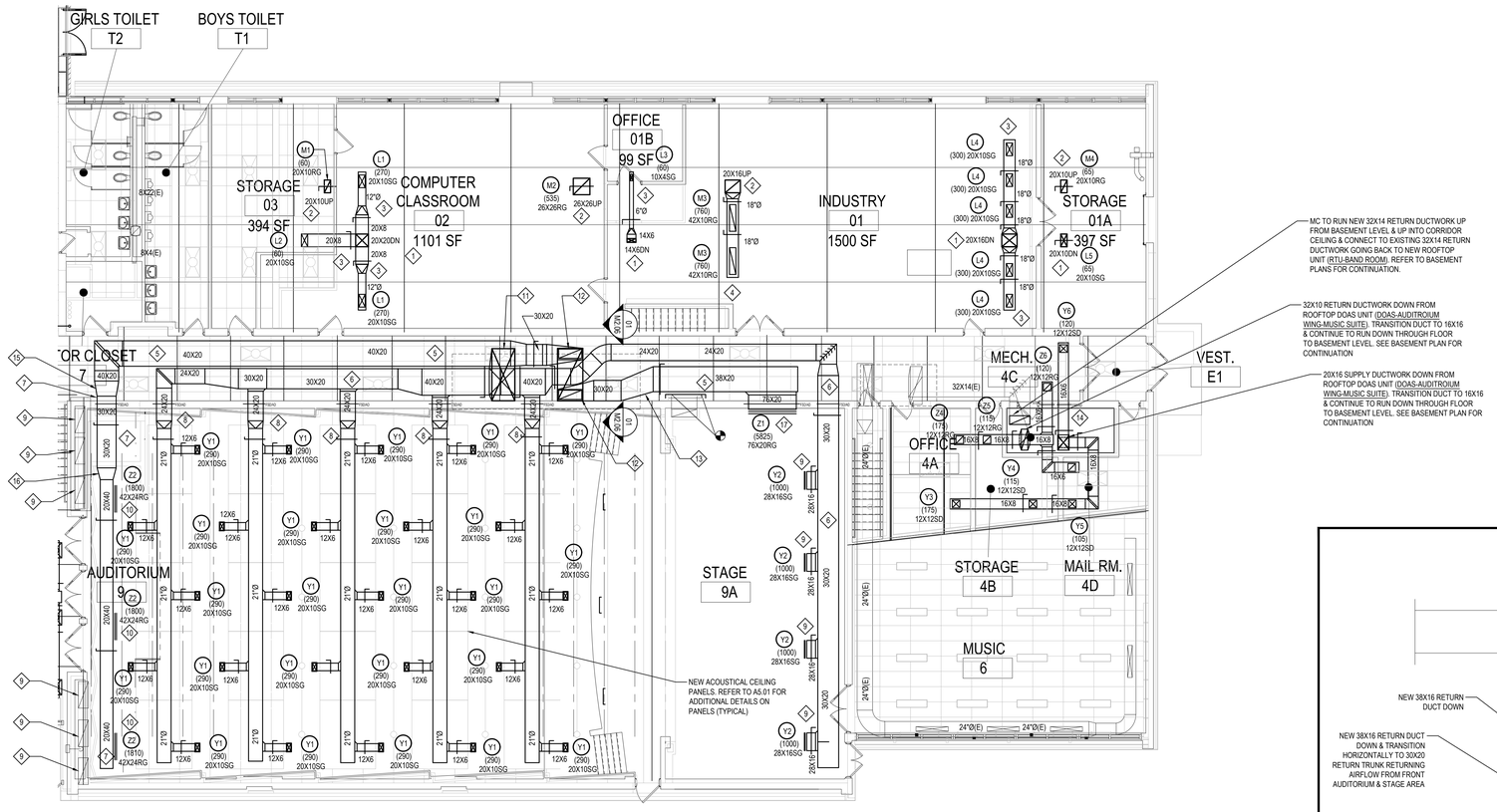
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SED No: 13-22-01-04-0-008-017
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE: AREA "E"-FIRST FLOOR NEW DUCTWORK PLAN

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M2.05



FIRST FLOOR -MIDDLE SCHOOL- AREA "F" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW SUPPLY DUCTWORK BRANCH DOWN FROM ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
2. MC SHALL RUN NEW EXHAUST DUCTWORK BRANCH UP TO ROOF AS SHOWN WITH GC PRESENT. REFER TO PLANS FOR SIZE OF DUCTWORK OPENING. REFER TO ROOF NEW WORK PLANS FOR CONTINUATION OF WORK.
3. MC SHALL RUN NEW SUPPLY DUCTWORK BELOW ALL STEEL BEAMS & BAR JOISTS IN OPEN CEILING SPACE AS SHOWN. MC SHALL RUN CIRCULAR SPIRAL EXPOSED DUCTWORK WITH SIZES NOTED ON PLANS & NEW SUPPLY AIR OUTLETS WITH SIZES NOTED ON PLANS. THE NEW AIR OUTLETS SHALL BE DUCT MOUNTED FOR RECTANGULAR DUCTWORK AND SHALL BE WITHIN DUCTWORK FOR CIRCULAR SPIRAL DUCTWORK. AIR OUTLETS IN CIRCULAR SPIRAL DUCTWORK SHALL HAVE AIR SCOOPS FOR EACH SUPPLY GRILLE FOR BALANCING OF AIRFLOW. PROPOSED CEILING SHALL BE AN OPEN CEILING. MC SHALL HAVE GC PAINT DUCTWORK TO COLOR SELECTED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
4. MC SHALL RUN NEW EXHAUST DUCTWORK BELOW ALL STEEL BEAMS & BAR JOISTS IN OPEN CEILING SPACE AS SHOWN. MC SHALL RUN CIRCULAR SPIRAL EXPOSED DUCTWORK WITH SIZES NOTED ON PLANS & NEW SUPPLY AIR OUTLETS WITH SIZES NOTED ON PLANS. THE NEW AIR OUTLETS SHALL BE DUCT MOUNTED FOR RECTANGULAR DUCTWORK AND SHALL BE WITHIN DUCTWORK FOR CIRCULAR SPIRAL DUCTWORK. AIR OUTLETS IN CIRCULAR SPIRAL DUCTWORK SHALL HAVE AIR SCOOPS FOR EACH RETURN GRILLE FOR BALANCING OF AIRFLOW. PROPOSED CEILING SHALL BE AN OPEN CEILING. MC SHALL HAVE GC PAINT DUCTWORK TO COLOR SELECTED BY ARCHITECT OF RECORD. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
5. MC SHALL RUN NEW RETURN DUCTWORK TRUNK (SIZE INDICATED ON PLANS) AS SHOWN.
6. MC SHALL RUN NEW SUPPLY DUCTWORK TRUNK (SIZE INDICATED ON PLANS) AS SHOWN.
7. MC SHALL RUN NEW RETURN DUCTWORK BRANCH IN REAR OF AUDITORIUM (SIZE OF NEW BRANCH INDICATED ON PLANS) & RUN NEW RETURN DUCTWORK TRUNK (SIZE INDICATED ON PLANS) AS SHOWN. RUN DUCT TRUNK & MAKE A 90 DEGREE TURN THEN TRANSITION TO SIZE INDICATED ON PLANS.
8. MC SHALL RUN NEW SUPPLY BRANCH DUCTWORK OFF SUPPLY TRUNK IN CORRIDOR CEILING & RUN RECTANGULAR DUCT INTO AUDITORIUM SPACE. TRANSITION SUPPLY DUCT BRANCH TO CIRCULAR SPIRAL DUCTWORK. RUN CIRCULAR SPIRAL DUCTWORK ABOVE NEW AUDITORIUM CEILING "CLOUDS". MC TO THEN RUN SUPPLY RECTANGULAR SUB-BRANCHES OFF OF CIRCULAR SPIRAL SUPPLY DUCT BRANCH. EACH DUCT SUB-BRANCH SHALL CONNECT A SUPPLY GRILLE TO DUCT AS SHOWN. ALL SIZES FOR ALL DUCTWORK INDICATED ON PLANS.
9. MC SHALL PATCH EXISTING VERTICAL DUCTWORK WITHIN EACH SHAFT. UPON COMPLETION OF DUCTWORK PATCHING WORK, MC SHALL HAVE GC PATCH EXISTING WALLS. REFER TO ARCHITECTURAL PLANS FOR FINAL WALL FINISHING DETAILS.
9. MC SHALL PATCH UP SIX (6) 22X26 DUCT OPENINGS & PERMANENTLY ABANDON THE EXISTING DUCT SHAFTS. TYPICAL OF SIX (6) TOTAL SHOWN ON PLANS. MC TO THEN HAVE GC PATCH WALL OPENINGS AFTER DUCTWORK PATCHING IS FINISHED.
10. MC SHALL INSTALL NEW 42X24 RETURN GRILLES IN NEW 20X30 RETURN DUCTWORK TRUNK SHOWN. TYPICAL OF TWO (2) TOTAL SHOWN ON PLANS.
17. MC SHALL RUN NEW 82X36 SUPPLY DUCT DOWN FROM ROOF OPENING OF NEW ROOFTOP UNIT (RTU-AUDITORIUM-STAGE). REFER TO NEW WORK IN AREA "F" ROOF PLANS FOR ADDITIONAL SCOPE DETAILS FOR NEW ROOFTOP UNIT.

    MC SHALL RUN NEW 82X36 SUPPLY DUCT DOWN & DO AN ECCENTRIC DUCT TRANSITION TO 40X40 DUCT. MC TO THEN SPLIT NEW 40X40 DUCT INTO TWO (2) 40X20 SUPPLY DUCT BRANCHES AS SHOWN. MC TO FURNISH & INSTALL VOLUME DAMPERS FOR EACH 40X20 SUPPLY DUCTWORK.
12. MC SHALL RUN NEW 82X38 RETURN DUCT UP THROUGH ROOF OPENING OF NEW ROOFTOP UNIT (RTU-AUDITORIUM-STAGE). REFER TO NEW WORK IN AREA "F" ROOF PLANS FOR ADDITIONAL SCOPE DETAILS FOR NEW ROOFTOP UNIT.

    MC SHALL RUN NEW 82X38 RETURN DUCT DOWN AT EACH END OF THE VERTICAL DUCT, SHALL RUN NEW 38X16 VERTICAL DUCTS & THEN TURN EACH OF THEM HORIZONTAL.

    EACH OF THE TWO (2) 38X16 DUCT SHALL THEN BE TRANSITIONED HORIZONTALLY INTO 30X20 RETURN TRUNKS AS SHOWN IN RUN IN CORRIDOR PLENUM.

    REFER TO ELEVATION DETAIL "01" ON THIS PLAN FOR ADDITIONAL INFORMATION.
13. MC SHALL RUN NEW 30X20 RETURN TRUNK & DO AN ANGLE-TRANSITION TO 38X20 RETURN DUCTWORK AS SHOWN.
14. FOR NEW 16X6 SUPPLY DUCT & FOR NEW 16X6 RETURN/EXHAUST DUCT, MC SHALL FURNISH & INSTALL NEW FIRE SMOKE DAMPERS. MC TO HAVE EC POWER NEW FIRE SMOKE DAMPERS AND TIE INTO LOCAL FIRE ALARM SYSTEM/PANEL.
15. MC SHALL TRANSITION FROM 40X20 TO 30X20 DUCT AS SHOWN. PROVIDE VOLUME DAMPER AS SHOWN.
16. MC SHALL TRANSITION FROM 30X20 TO 20X40 DUCT AS SHOWN. PROVIDE VOLUME DAMPER AS SHOWN.
17. MC SHALL FURNISH & INSTALL A NEW SURFACE-MOUNTED 0° DEGREE DEFLECTION BLADE 76X20 WALL MOUNTED RETURN GRILLE AS SHOWN. COLOR TO BE CUSTOM COLOR SELECTED BY ARCHITECT OF RECORD.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S).
6. FOR AUDITORIUM AREA, NEW CEILING IS TO BE FURNISHED & INSTALLED BY PROJECT GC. MC SHALL THEREFORE COORDINATE THEIR NEW WORK WITH GC WHILE GC HAS CEILING EXPOSED PRIOR TO GC'S NEW WORK TO BE DONE.
7. FOR AUDITORIUM SPACE NEW DUCTWORK, MC SHALL FURNISH AND INSTALL NEW FIRE/SMOKE DAMPERS AND SHALL HAVE EC POWER EACH FIRE/SMOKE DAMPER & TIE INTO EXISTING FIRE ALARM SYSTEM. REFER TO AUDITORIUM SPACE NEW DUCTWORK FOR DUCT SIZES AND TOTAL QUANTITY OF FIRE SMOKE DAMPERS.

NEW DUCTWORK GENERAL INSTALLATION NOTES:

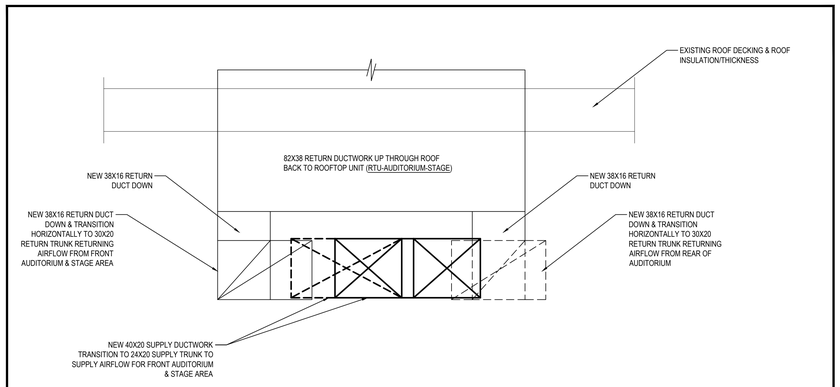
1. MC SHALL PROVIDE A SCALED DUCTWORK SHOP DRAWING PRIOR TO START OF NEW WORK FOR REVIEW & APPROVAL PROCESS.
2. MC SHALL DRAW ALL EXISTING BEAMS, BAR JOISTS, STRUCTURES ON SOP DRAWING & SHOW VERTICAL HEIGHTS WITH RESPECT TO EXISTING FINISHED FLOOR(S).
3. MC SHALL COORDINATE ALL INSTALLATION WORK WITH ALL OTHER PROJECT TRADES (GC, EC, ETC.).

NEW AUDITORIUM EXPOSED DUCTWORK & AIR OUTLETS COLOR SELECTION NOTES:

1. ALL NEW SUPPLY & RETURN DUCTWORK THAT ARE EXPOSED IN THE AUDITORIUM & STAGE SPACES SHALL BE PAINTED BY GENERAL CONTRACTOR (GC) WITH A COLOR CHOSEN BY ARCHITECT OF RECORD.
2. ALL NEW SUPPLY & RETURN AIR OUTLETS THAT ARE EXPOSED IN THE AUDITORIUM SHALL HAVE A CUSTOM COLOR THAT IS TO BE SELECTED BY THE ARCHITECT OF RECORD DURING SUBMITTAL PHASE.

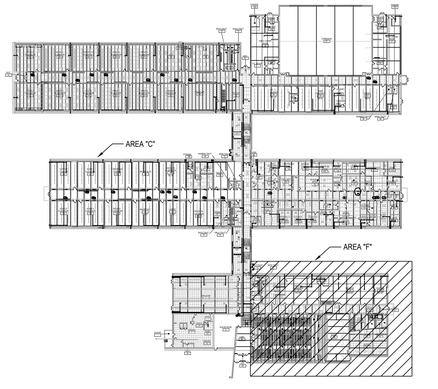
NEW AUDITORIUM SUPPLY DUCTWORK DIFFUSER NOTE:

1. MC SHALL REFER TO ARCHITECTURAL DRAWING A5.01 FOR ELEVATION DESIGN INTENT OF SUPPLY DUCTWORK BRANCH TERMINATION WITH RESPECT TO ACOUSTICAL CEILING PANELS.
2. MC SHALL RUN AND TERMINATE ALL SUPPLY DUCTWORK BRANCHES SO THAT SUPPLY DIFFUSER IS FLUSH WITH TOP EDGE OF ACOUSTICAL PANELS.
3. ACOUSTICAL PANELS HEIGHTS WITH RESPECT TO ROOF DECKING UNDERSIDE VARY. REFER TO ARCHITECTURAL SECTION ON A5.01 SHOWING SECTION WITH VARIANCES. MC SHALL USE THIS DRAWING WHEN GENERATING MECHANICAL DUCTWORK SHOP PLANS FOR AUDITORIUM SPACE IN CONJUNCTION WITH THIS DRAWING..



01 / M2.06 AUDITORIUM UNIT RETURN DUCTWORK ELEVATION DETAIL

MILLBROOK MIDDLE SCHOOL — SCALE: NOT TO SCALE



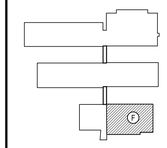
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

MECHANICAL

AREA "F"-FIRST FLOOR NEW DUCTWORK WORK PLAN

PROJECT

DWG TITLE

DRAWING BY:	U.F.
CHECK BY:	U.F.

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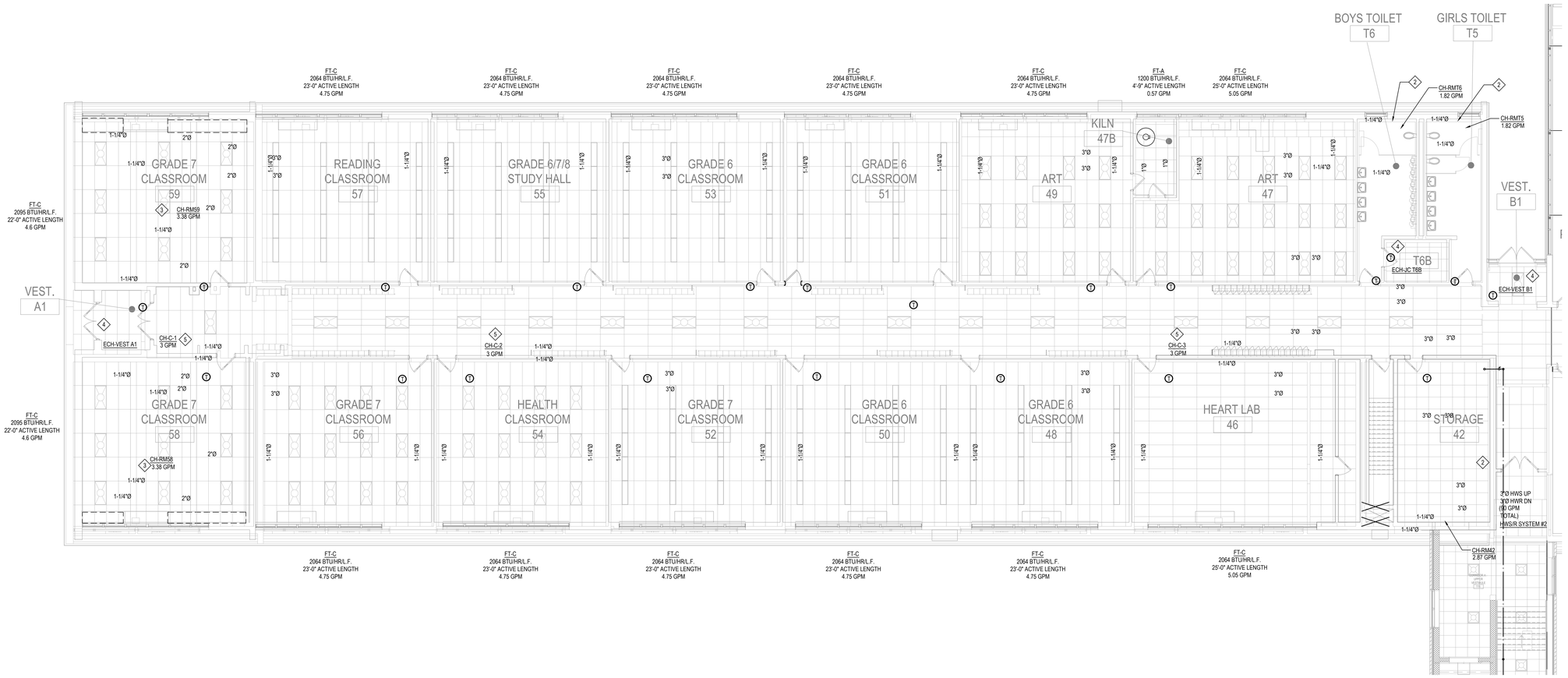
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-FIRST FLOOR NEW DUCTWORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.06



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW 3"Ø HWS/R MAINS FOR AREA UP IN SPACE AS SHOWN & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER WHICH SHALL HAVE COLOR THAT SHALL BE SELECTED BY ARCHITECT OF RECORD.
2. MC SHALL FURNISH & INSTALL NEW CEILING EXPOSED CABINET HEATER. REFER TO PLANS FOR TAGS. REFER TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION.
3. MC SHALL FURNISH & INSTALL NEW CEILING RECESSED CABINET HEATER. PROVIDE RECESSED TRIM FIT KIT. REFER TO PLANS FOR TAGS. REFER TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION.
4. MC SHALL FURNISH & INSTALL A NEW CEILING RECESSED ELECTRICAL CABINET HEATER IN LOCATION AS SHOWN. REFER TO PLANS FOR TAG OF UNIT. REFER TO SCHEDULE FOR PERFORMANCE DATA. UNIT TO BE RECESSED FLUSH TO DROP CEILING. MC TO GET RECESSED FIT TRIM KIT FROM APPROVED EQUIPMENT MANUFACTURER.
5. MC SHALL FURNISH & INSTALL A NEW FLOOR-MOUNTED HOT WATER CABINET HEATER IN LOCATION AS SHOWN. MC TO RUN PIPING DOWN ALONG WALL FROM CEILING & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER. COLOR OF PIPE ENCLOSURE TO BE SELECTED BY ARCHITECT OF RECORD. MC TO CONNECT NEW HWS/R LINES TO SIZES INDICATED ON PLANS.

GENERAL DEMOLITION NOTES:

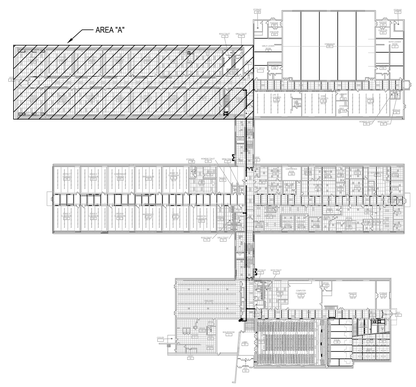
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2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL ALL NEW HOT WATER RETURN (HWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
4. FOR ALL HOT WATER SUPPLY (HWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
5. FOR EACH HWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
6. FOR EACH HWS LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A STRAINER IN BETWEEN THEM.
7. REFER TO PLANS FOR ALL PIPING SIZES
8. REFER TO PLANS FOR ALL NEW FIN TUBE PERFORMANCE REQUIREMENTS. REFER FURTHER TO SCHEDULES FOR ADDITIONAL DETAILS ON FIN TUBE ELEMENT AND ENCLOSURE DETAILS.

HYDRONIC HOT WATER CABINET HEATER GENERAL INSTALLATION NOTES:

1. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER CABINET HEATERS WHICH HAVE A BOTTOM SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM WITHIN THE HAUNCHES OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN.
2. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS WHICH HAVE A FRONT/SIDE SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM JUST BELOW THE BOTTOM OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN IF THE CABINET HEATER IS BLOWING AIR PERPENDICULAR TO THE BEAMS.
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4. FOR ROOMS WITH A DROP CEILING GRID—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS SHALL HAVE A BOTTOM SIDE SUPPLY & BOTTOM SIDE RETURN CONFIGURATION. THE UNIT SHALL BE INSTALLED FLUSH TO DROP CEILING. MC SHALL MODIFY T-BAR GRID BY FURNISHING & INSTALLING A RECESSED TRIM FIT KIT FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER & COORDINATE INSTALLATION WORK WITH PROJECT GC.
5. MC SHALL COORDINATE & INSTALL CABINET HEATERS WHERE THEY DO NOT CONFLICT WITH PROPOSED & EXISTING LIGHTING FIXTURES.
6. FOR FLOOR MOUNTED HYDRONIC CABINET HEATERS INSTALLED IN CORRIDOR SPACES, MC SHALL RUN HOT WATER SUPPLY & RETURN PIPING DOWN TIGHT TO CORRIDOR WALL & PROVIDE A 16-GAUGE STERLING THREE-SIDED PIPE COVER. COLOR OF PIPE COVER TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE. PROVIDE CUSTOM COLOR.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



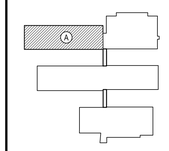
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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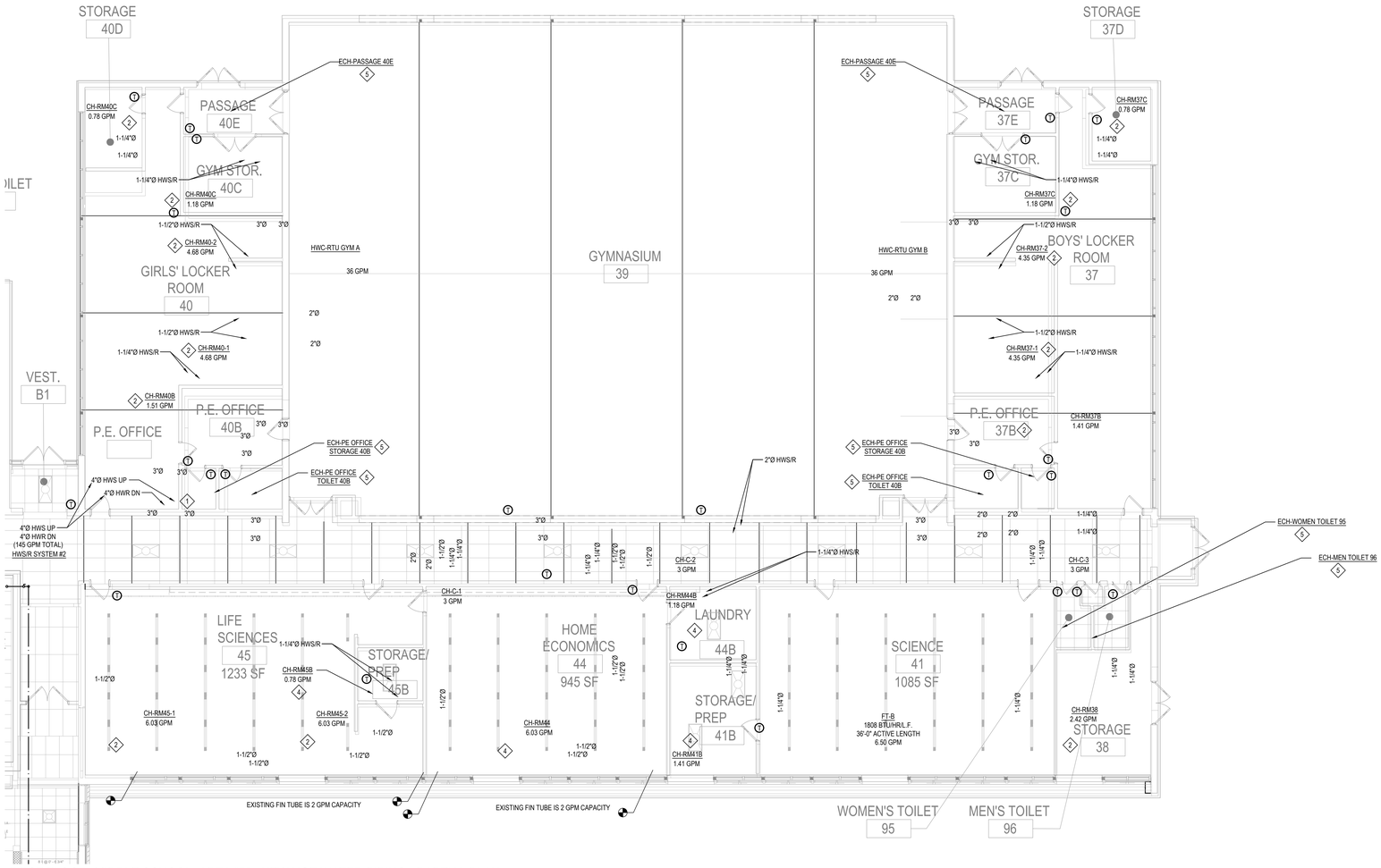
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-FIRST FLOOR NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.07



FIRST FLOOR -MIDDLE SCHOOL- AREA "B" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "B" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

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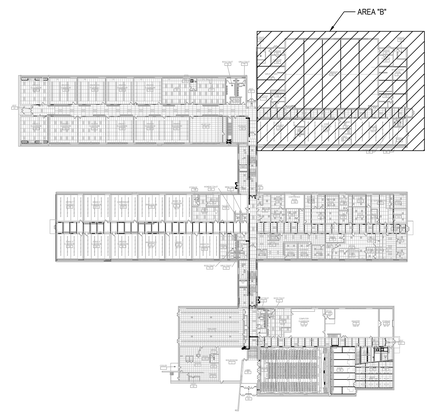
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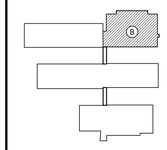
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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KEY PLAN

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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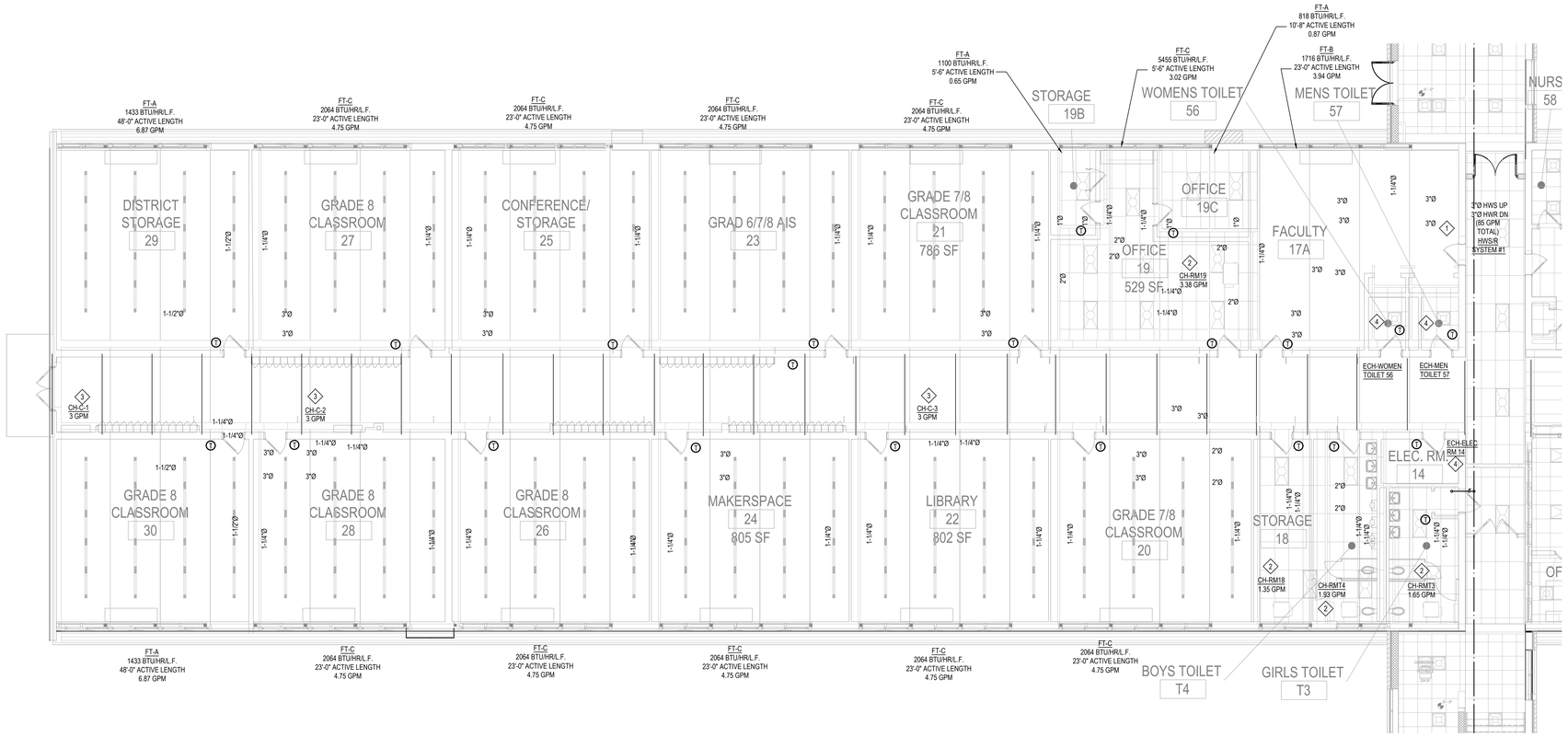
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-FIRST FLOOR NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.07



FIRST FLOOR -MIDDLE SCHOOL- AREA "C" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW 3"Ø HWS/R MAINS FOR AREA UP IN SPACE AS SHOWN & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER WHICH SHALL HAVE COLOR THAT SHALL BE SELECTED BY ARCHITECT OF RECORD.
2. MC SHALL FURNISH & INSTALL NEW CEILING EXPOSED CABINET HEATER. REFER TO PLANS FOR TAGS. REFFR TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION.
3. MC SHALL FURNISH & INSTALL A NEW FLOOR-MOUNTED HOT WATER CABINET HEATER IN LOCATION AS SHOWN. MC TO RUN PIPING DOWN ALONG WALL FROM CEILING & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER. COLOR OF PIPE ENCLOSURE TO BE SELECTED BY ARCHITECT OF RECORD. MC TO CONNECT NEW HWS/R LINES TO SIZES INDICATED ON PLANS.
4. MC SHALL FURNISH & INSTALL A NEW CEILING RECESSED ELECTRICAL CABINET HEATER IN LOCATION AS SHOWN. REFER TO PLANS FOR TAG OF UNIT. REFER TO SCHEDULE FOR PERFORMANCE DATA. UNIT TO BE RECESSED FLUSH TO DROP CEILING. MC TO GET RECESSED FIT TRIM KIT FROM APPROVED EQUIPMENT MANUFACTURER.

GENERAL DEMOLITION NOTES:

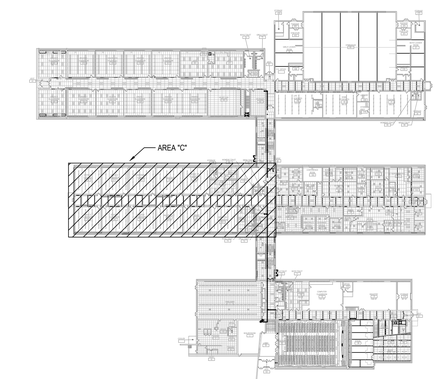
1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL ALL NEW HOT WATER RETURN (HWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
4. FOR ALL HOT WATER SUPPLY (HWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
5. FOR EACH HWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
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7. REFER TO PLANS FOR ALL PIPING SIZES
8. REFER TO PLANS FOR ALL NEW FIN TUBE PERFORMANCE REQUIREMENTS. REFER FURTHER TO SCHEDULES FOR ADDITIONAL DETAILS ON FIN TUBE ELEMENT AND ENCLOSURE DETAILS.

HYDRONIC HOT WATER CABINET HEATER GENERAL INSTALLATION NOTES:

1. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER CABINET HEATERS WHICH HAVE A BOTTOM SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM WITHIN THE HAUNCHES OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN.
2. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS WHICH HAVE A FRONT/SIDE SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM JUST BELOW THE BOTTOM OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN IF THE CABINET HEATER IS BLOWING AIR PERPENDICULAR TO THE BEAMS.
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4. FOR ROOMS WITH A DROP CEILING GRID—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS SHALL HAVE A BOTTOM SIDE SUPPLY & BOTTOM SIDE RETURN CONFIGURATION. THE UNIT SHALL BE INSTALLED FLUSH TO DROP CEILING. MC SHALL MODIFY T-BAR GRID BY FURNISHING & INSTALLING A RECESSED TRIM FIT KIT FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER & COORDINATE INSTALLATION WORK WITH PROJECT GC.
5. MC SHALL COORDINATE & INSTALL CABINET HEATERS WHERE THEY DO NOT CONFLICT WITH PROPOSED & EXISTING LIGHTING FIXTURES.
6. FOR FLOOR MOUNTED HYDRONIC CABINET HEATERS INSTALLED IN CORRIDOR SPACES, MC SHALL RUN HOT WATER SUPPLY & RETURN PIPING DOWN TIGHT TO CORRIDOR WALL & PROVIDE A 16-GAUGE STERLING THREE-SIDED PIPE COVER. COLOR OF PIPE COVER TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE. PROVIDE CUSTOM COLOR.

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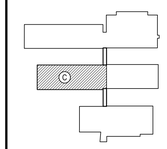
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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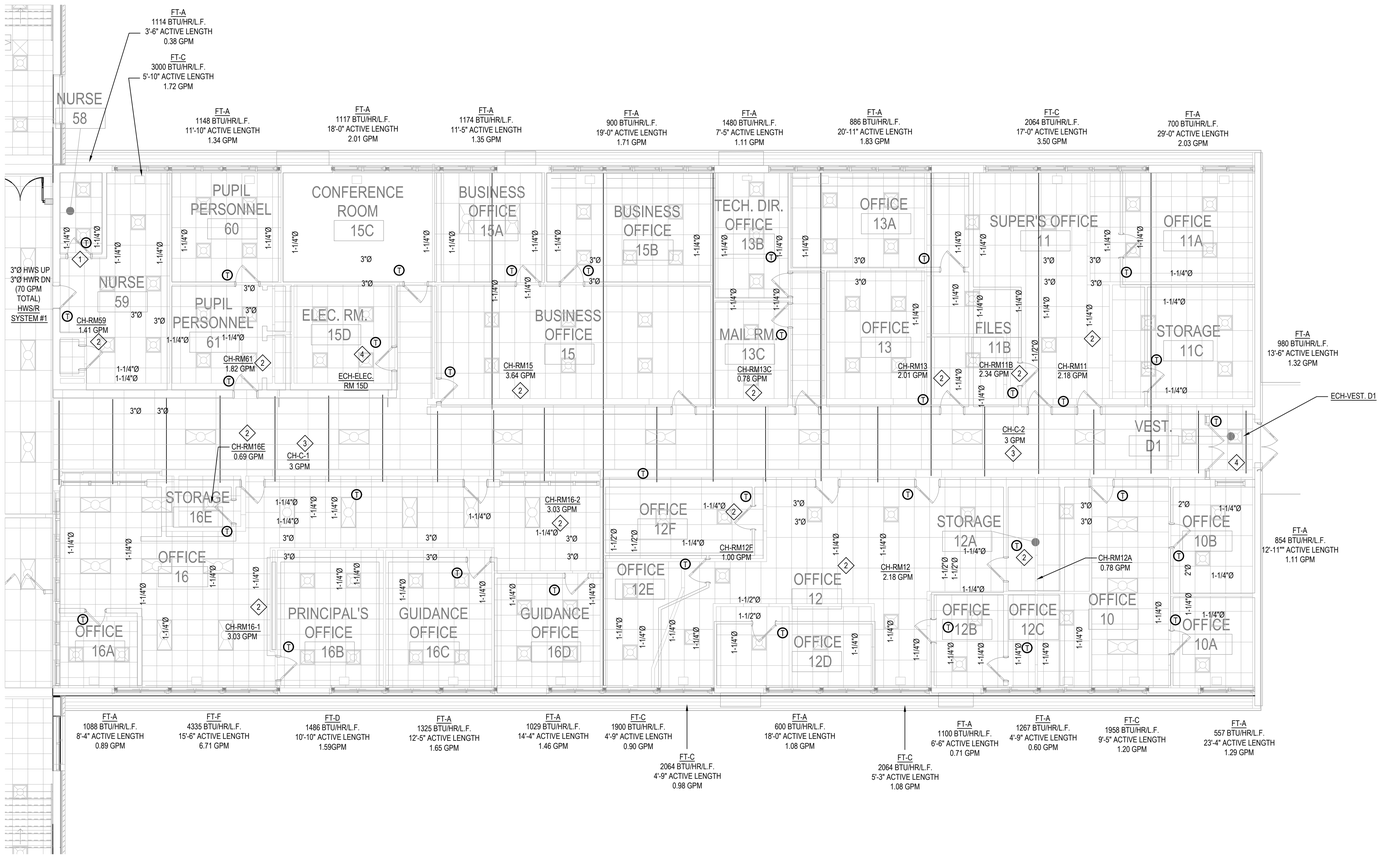
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: AREA "C" FIRST FLOOR NEW HOT WATER PIPING PLAN

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M2.09



FIRST FLOOR -MIDDLE SCHOOL- AREA "D" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

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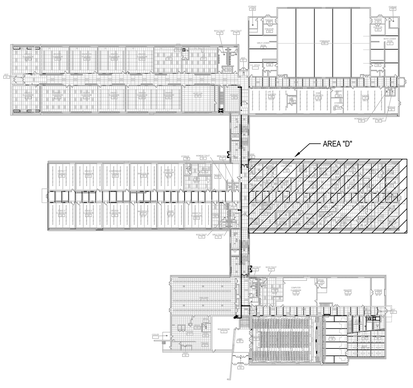
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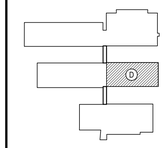
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "D"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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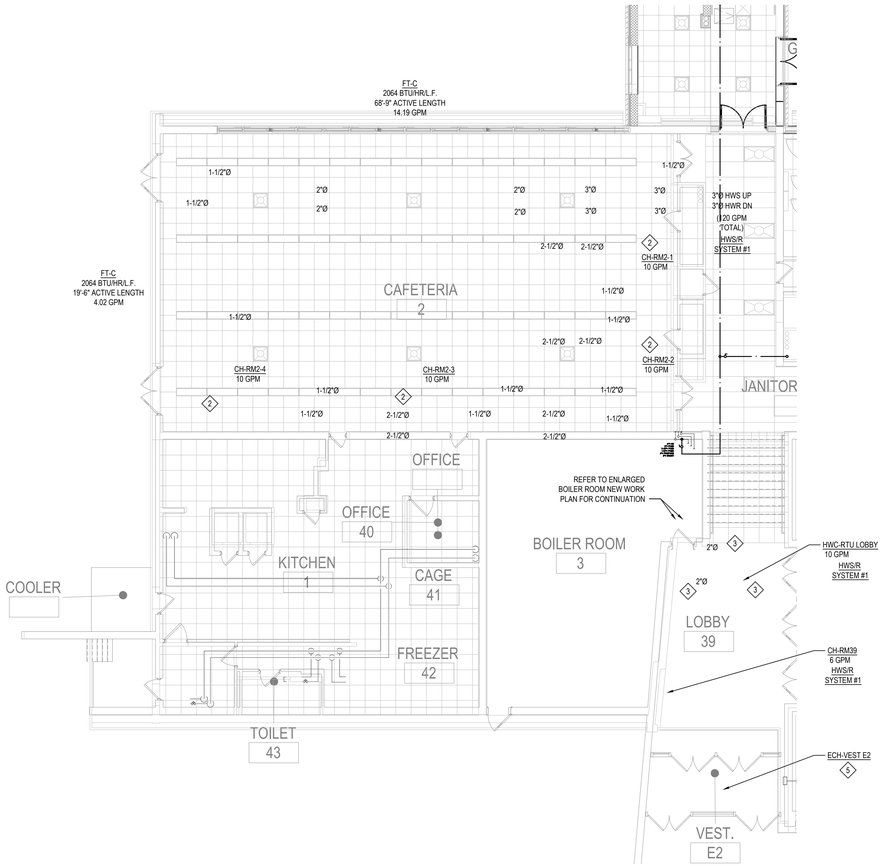
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DWG TITLE	AREA "D"-FIRST FLOOR NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.10



FIRST FLOOR -MIDDLE SCHOOL- AREA "E" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

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2. MC SHALL FURNISH & INSTALL NEW CEILING RECESSED CABINET HEATER. PROVIDE RECESSED TRIM FIT KIT. REFER TO PLANS FOR TAGS. REFER TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION.
3. MC SHALL RUN NEW 2"Ø HWS/HWR LINES FROM BOILER ROOM (AS SHOWN) & WITHIN CEILING OF LOBBY & CONNECT TO NEW HOT WATER DUCT COIL (HWC-RTU LOBBY) FOR NEW ROOFTOP UNIT (RTU-LOBBY).
4. MC SHALL FURNISH & INSTALL A NEW FLOOR-MOUNTED HOT WATER CABINET HEATER IN LOCATION AS SHOWN. MC TO RUN PIPING DOWN ALONG WALL FROM CEILING & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER. COLOR OF PIPE ENCLOSURE TO BE SELECTED BY ARCHITECT OF RECORD. MC TO CONNECT NEW HWS/R LINES TO SIZES INDICATED ON PLANS.
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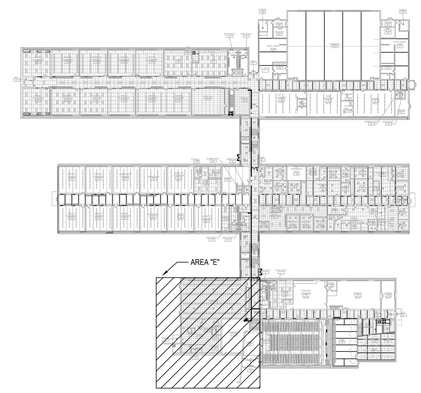
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2. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS WHICH HAVE A FRONT/SIDE SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM JUST BELOW THE BOTTOM OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN IF THE CABINET HEATER IS BLOWING AIR PERPENDICULAR TO THE BEAMS.
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4. FOR ROOMS WITH A DROP CEILING GRID—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS SHALL HAVE A BOTTOM SIDE SUPPLY & BOTTOM SIDE RETURN CONFIGURATION. THE UNIT SHALL BE INSTALLED FLUSH TO DROP CEILING. MC SHALL MODIFY T-BAR GRID BY FURNISHING & INSTALLING A RECESSED TRIM FIT KIT FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER & COORDINATE INSTALLATION WORK WITH PROJECT GC.
5. MC SHALL COORDINATE & INSTALL CABINET HEATERS WHERE THEY DO NOT CONFLICT WITH PROPOSED & EXISTING LIGHTING FIXTURES.
6. FOR FLOOR MOUNTED HYDRONIC CABINET HEATERS INSTALLED IN CORRIDOR SPACES, MC SHALL RUN HOT WATER SUPPLY & RETURN PIPING DOWN TIGHT TO CORRIDOR WALL & PROVIDE A 16-GAUGE STERLING THREE-SIDED PIPE COVER. COLOR OF PIPE COVER TO BE SELECTED BY ARCHITECT OF RECORD IN SUBMITTAL PHASE. PROVIDE CUSTOM COLOR.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TOFROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



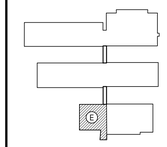
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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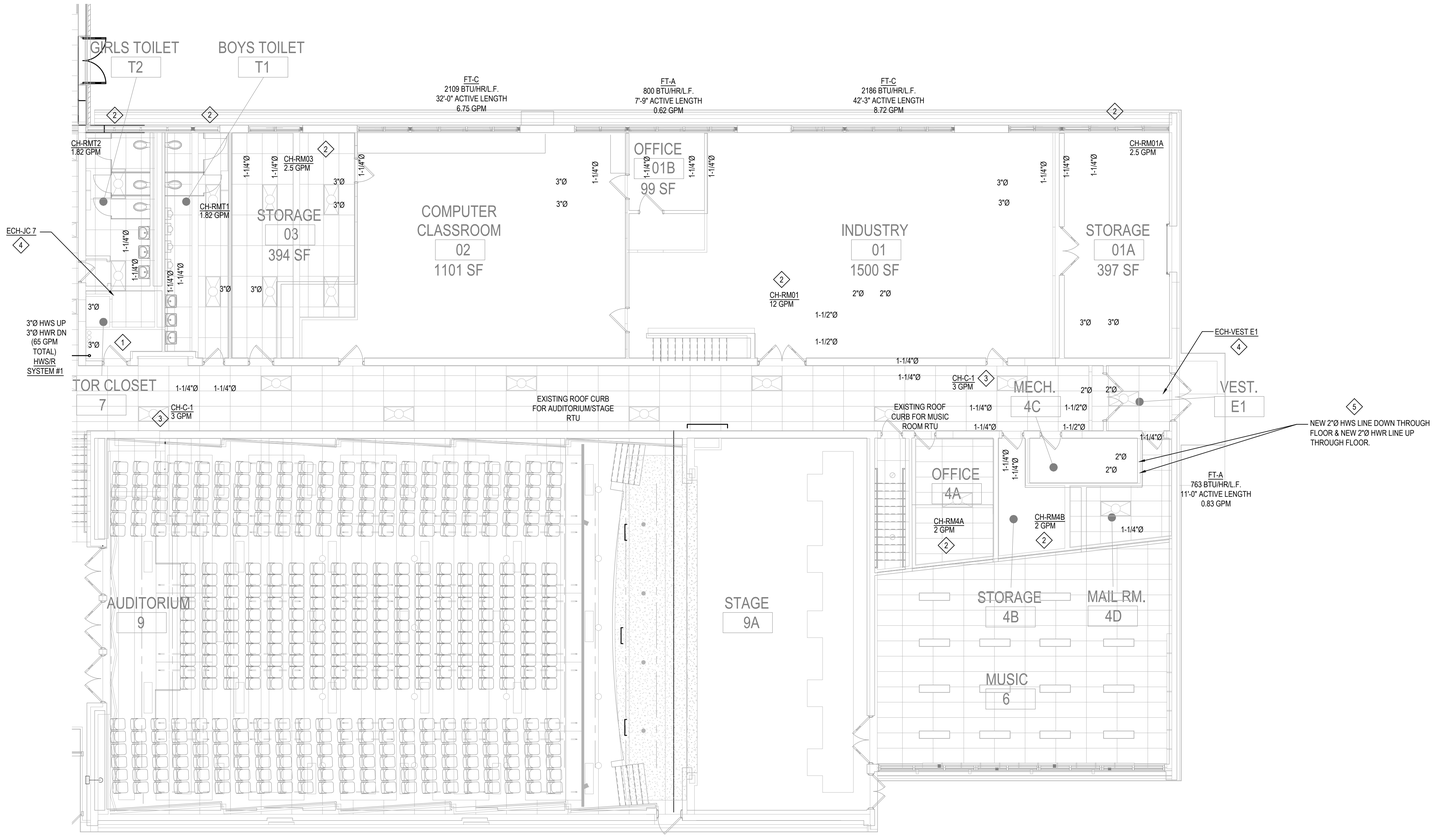
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "E"-FIRST FLOOR NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.11



FIRST FLOOR -MIDDLE SCHOOL- AREA "F" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW 3'Ø HWS/R MAINS FOR AREA UP IN SPACE AS SHOWN & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER WHICH SHALL HAVE COLOR THAT SHALL BE SELECTED BY ARCHITECT OF RECORD.
2. MC SHALL FURNISH & INSTALL NEW CEILING EXPOSED CABINET HEATER. REFER TO PLANS FOR TAGS. REFER TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION.
3. MC SHALL FURNISH & INSTALL A NEW FLOOR-MOUNTED HOT WATER CABINET HEATER IN LOCATION AS SHOWN. MC TO RUN PIPING DOWN ALONG WALL FROM CEILING & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER. COLOR OF PIPE ENCLOSURE TO BE SELECTED BY ARCHITECT OF RECORD. MC TO CONNECT NEW HWS/R LINES TO SIZES INDICATED ON PLANS.
4. MC SHALL FURNISH & INSTALL A NEW CEILING RECESSED ELECTRICAL CABINET HEATER IN LOCATION AS SHOWN. REFER TO PLANS FOR TAG OF UNIT. REFER TO SCHEDULE FOR PERFORMANCE DATA. UNIT TO BE RECESSED FLUSH TO DROP CEILING. MC TO GET RECESSED FIT TRIM KIT FROM APPROVED EQUIPMENT MANUFACTURER.
5. MC TO RUN NEW 2"Ø HWS/R LINES DOWN THROUGH FLOOR OF SPACE SHOWN & INTO LOWER BASEMENT LEVEL. MC TO HAVE GC CORE DRILL TWO (2) OPENINGS EACH AT 2"Ø WITH MC PRESENT. MC TO RUN PIPING THROUGH OPENING & FIRESTOP PER SPECIFICATIONS. REFER TO BASEMENT PLAN NEW PIPING WORK FOR CONTINUATION.

GENERAL DEMOLITION NOTES:

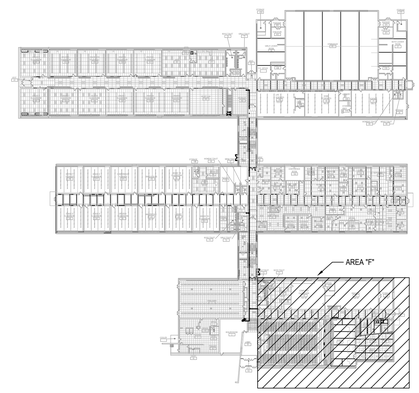
1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES. THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL ALL NEW HOT WATER RETURN (HWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
4. FOR ALL HOT WATER SUPPLY (HWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
5. FOR EACH HWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
6. FOR EACH HWS LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A STRAINER IN BETWEEN THEM.
7. REFER TO PLANS FOR ALL PIPING SIZES
8. REFER TO PLANS FOR ALL NEW FIN TUBE PERFORMANCE REQUIREMENTS. REFER FURTHER TO SCHEDULES FOR ADDITIONAL DETAILS ON FIN TUBE ELEMENT AND ENCLOSURE DETAILS.

HYDRONIC HOT WATER CABINET HEATER GENERAL INSTALLATION NOTES:

1. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER CABINET HEATERS WHICH HAVE A BOTTOM SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM WITHIN THE HAUNCHES OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN.
2. FOR ROOMS WITH AN OPENING CEILING—FOR NEW HYDRONIC HOT WATER WATER CABINET HEATERS WHICH HAVE A FRONT/SIDE SUPPLY & BOTTOM RETURN CONFIGURATION, THE MC SHALL INSTALL THEM JUST BELOW THE BOTTOM OF THE EXISTING STEEL I-BEAMS FOR AREA SHOWN IF THE CABINET HEATER IS BLOWING AIR PERPENDICULAR TO THE BEAMS.
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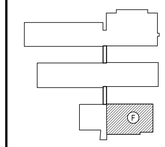
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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KEY PLAN

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CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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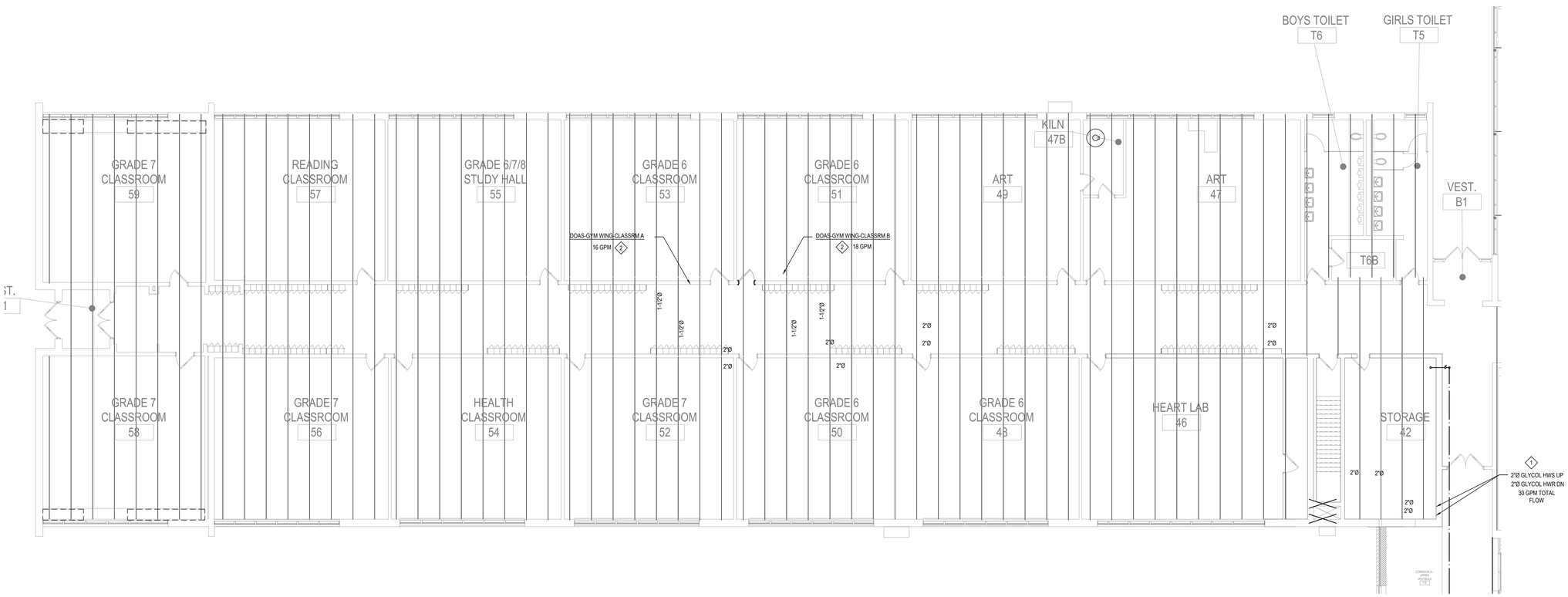
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M2.12



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - NEW GLYCOL WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW GLYCOL WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW GLYCOL HWS/R MAINS FOR AREA UP IN SPACE AS SHOWN & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER WHICH SHALL HAVE COLOR THAT SHALL BE SELECTED BY ARCHITECT OF RECORD.

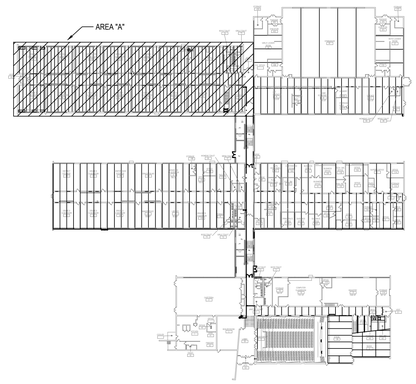
2. MC SHALL FURNISH & INSTALL COORDINATE WITH GC WHEN PIPING IS TO BE RUN UP THROUGH ROOF. MC TO HAVE GC CUT OPENINGS WITHIN ROOF TO CONNECT TO ROOFTOP UNIT GLYCOL COILS. PIPING TO COME UP WITHIN ROOF CURB PROVIDED BY ROOFTOP UNIT MANUFACTURER.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
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3. FOR ALL ALL NEW GLYCOL HOT WATER RETURN (GHWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
4. FOR ALL GLYCOL HOT WATER SUPPLY (GHWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
5. FOR EACH GHWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
6. FOR EACH GHWS LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A STRAINER IN BETWEEN THEM.
7. REFER TO PLANS FOR ALL PIPING SIZES

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
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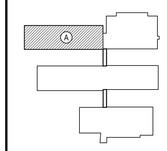
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MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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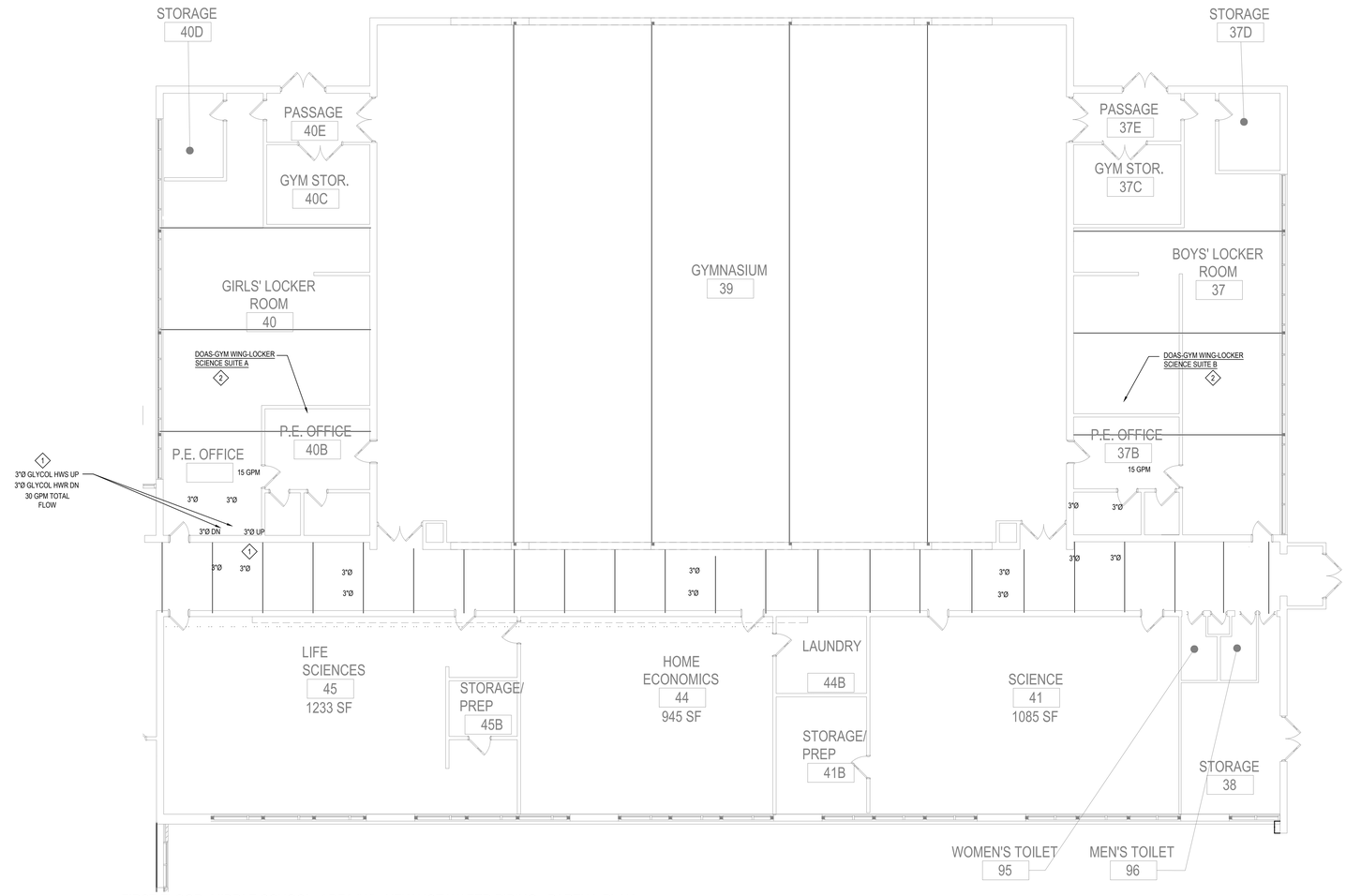
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M2.13



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

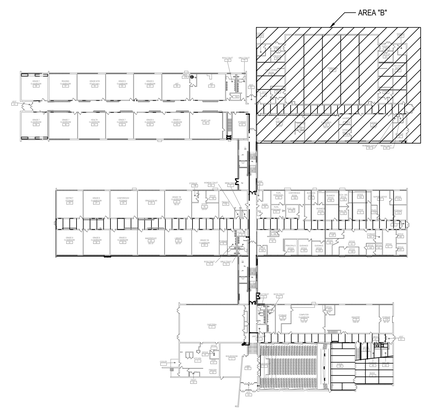
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2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW GLYCOL HOT WATER SUPPLY & GLYCOL HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



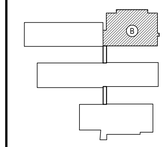
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-FIRST FLOOR NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

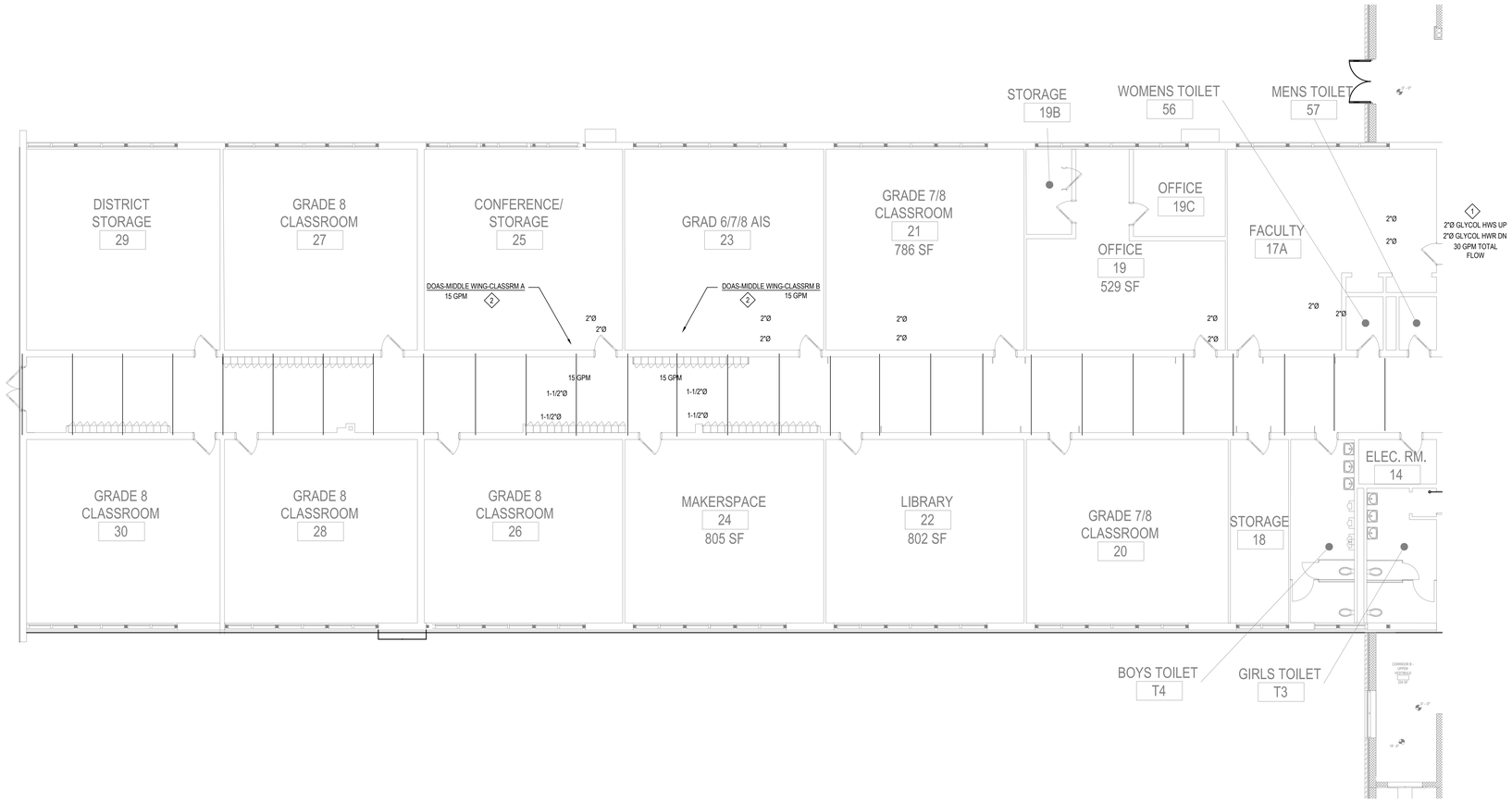
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SED No:	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-FIRST FLOOR NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.14



FIRST FLOOR -MIDDLE SCHOOL- AREA "C" - NEW GLYCOL WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW GLYCOL WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

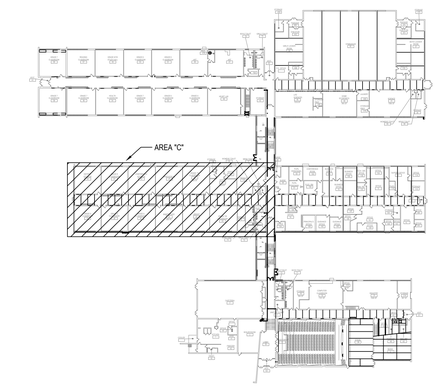
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2. MC SHALL FURNISH & INSTALL COORDINATE WITH GC WHEN PIPING IS TO BE RUN UP THROUGH ROOF. MC TO HAVE GC CUT OPENINGS WITHIN ROOF TO CONNECT TO ROOFTOP UNIT GLYCOL COILS. PIPING TO COME UP WITHIN ROOF CURB PROVIDED BY ROOFTOP UNIT MANUFACTURER.

GENERAL DEMOLITION NOTES:

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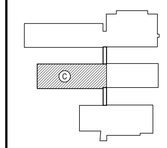
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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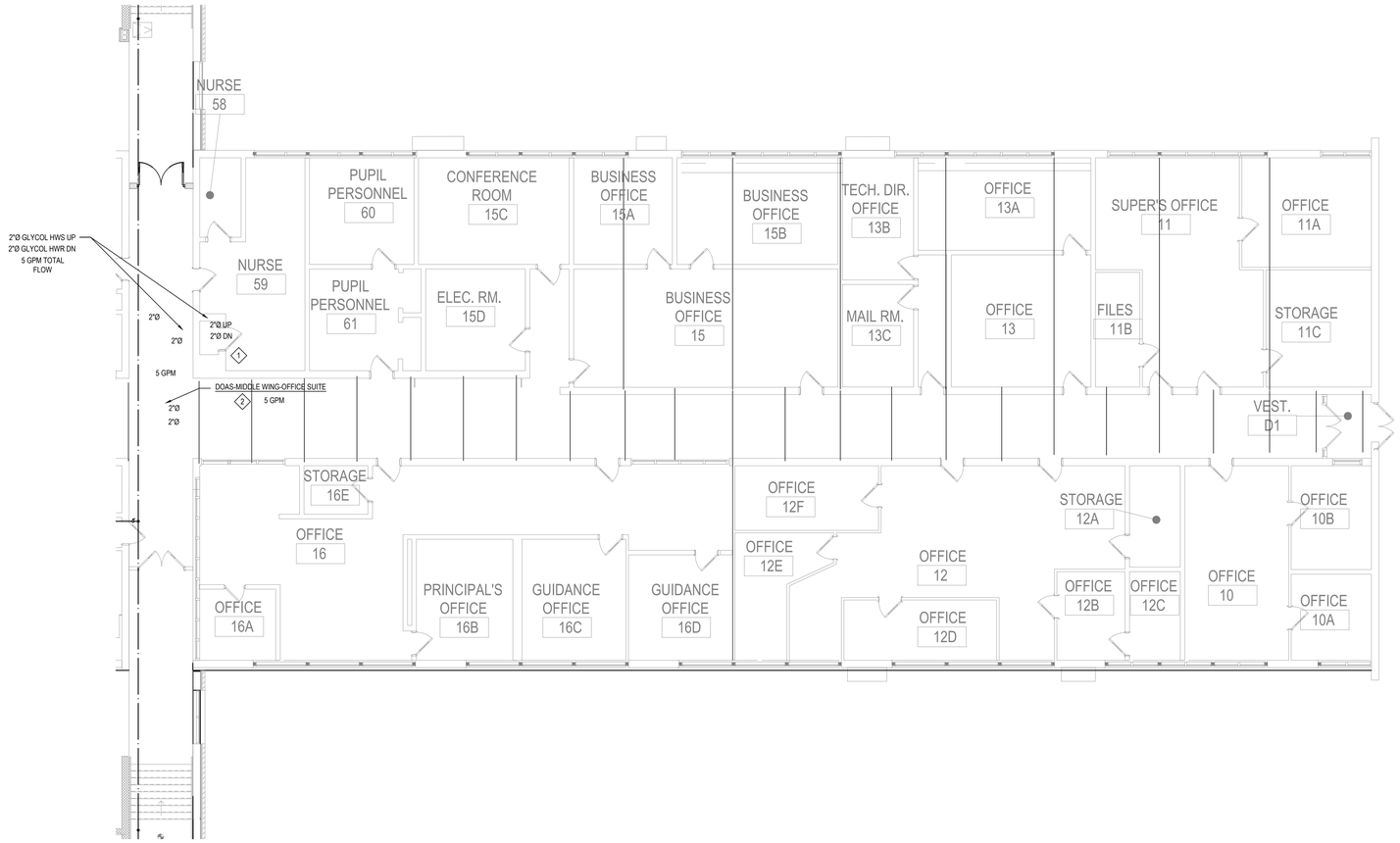
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DWG TITLE	AREA "C"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN
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FILE No:	25-273A

M2.15



FIRST FLOOR -MIDDLE SCHOOL- AREA "D" - NEW GLYCOL WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW GLYCOL WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

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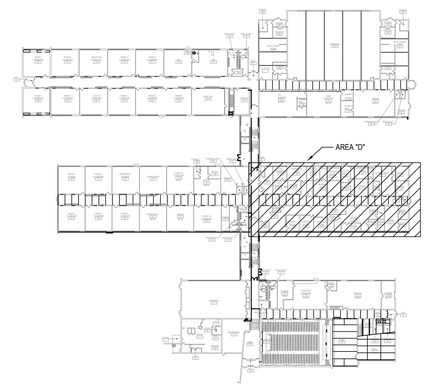
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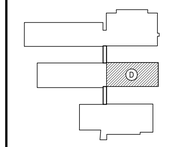
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL

AREA "D"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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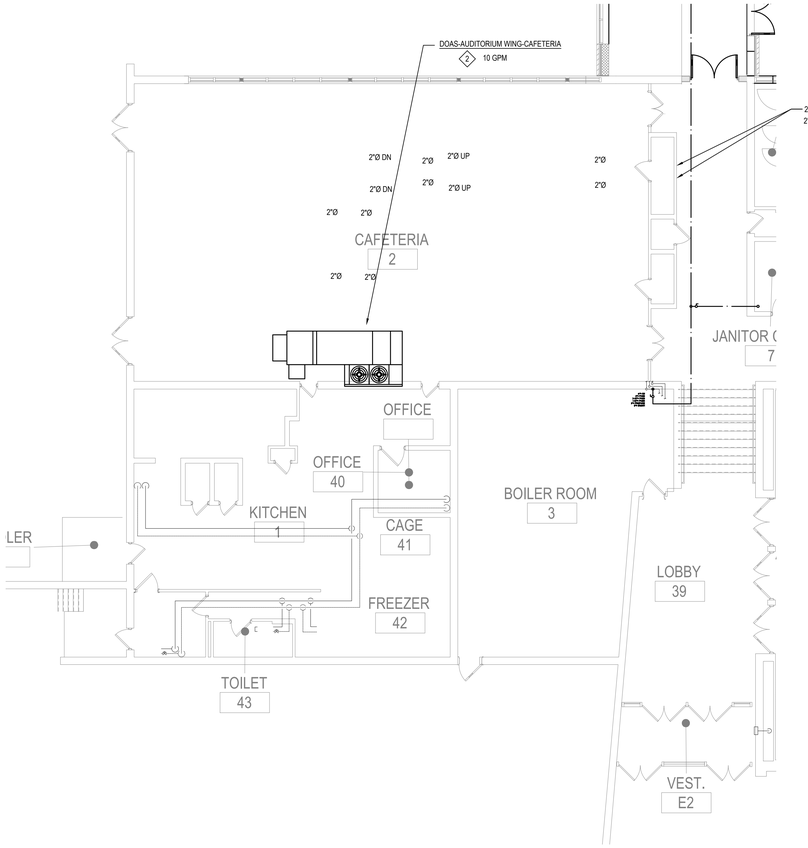
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SED No:	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.16



FIRST FLOOR -MIDDLE SCHOOL- AREA "E" - NEW GLYCOL WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW GLYCOL WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

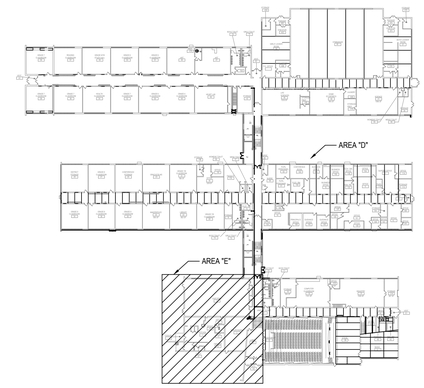
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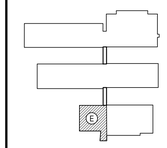
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

MECHANICAL

AREA "E"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN

PROJECT

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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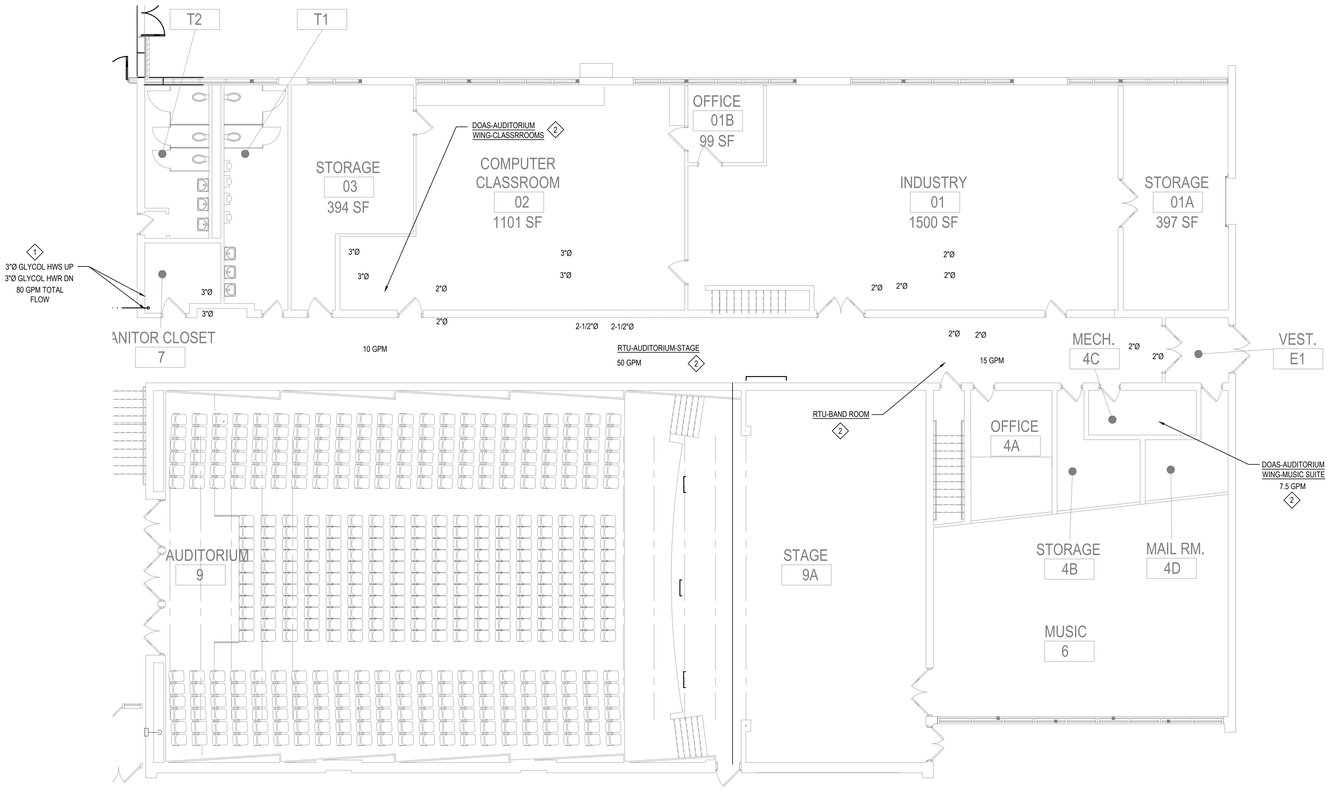
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DWG TITLE	AREA "E"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN
SCALE:	AS NOTED
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FILE No:	25-273A

M2.17



FIRST FLOOR -MIDDLE SCHOOL- AREA "F" - NEW GLYCOL WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW GLYCOL WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

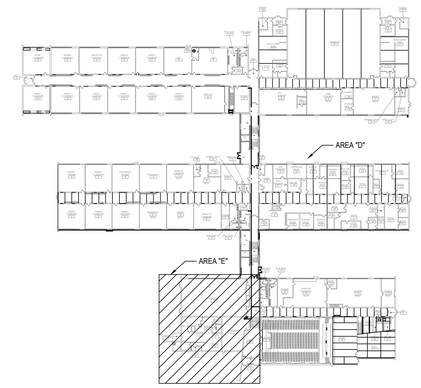
1. MC SHALL RUN NEW GLYCOL HWS/R MAINS FOR AREA UP IN SPACE AS SHOWN & PROVIDE A STERLING THREE-SIDED 16-GAUGE PIPING COVER WHICH SHALL HAVE COLOR THAT SHALL BE SELECTED BY ARCHITECT OF RECORD.
2. MC SHALL FURNISH & INSTALL COORDINATE WITH GC WHEN PIPING IS TO BE RUN UP THROUGH ROOF. MC TO HAVE GC CUT OPENINGS WITHIN ROOF TO CONNECT TO ROOFTOP UNIT GLYCOL COILS. PIPING TO COME UP WITHIN ROOF CURB PROVIDED BY ROOFTOP UNIT MANUFACTURER.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL ALL NEW GLYCOL HOT WATER RETURN (GHWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
4. FOR ALL GLYCOL HOT WATER SUPPLY (GHWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
5. FOR EACH GHWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
6. FOR EACH GHWS LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A STRAINER IN BETWEEN THEM.
7. REFER TO PLANS FOR ALL PIPING SIZES

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES:--FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES:--FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW GLYCOL HOT WATER SUPPLY & GLYCOL HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TOFROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



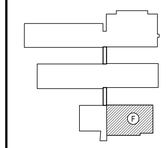
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "F"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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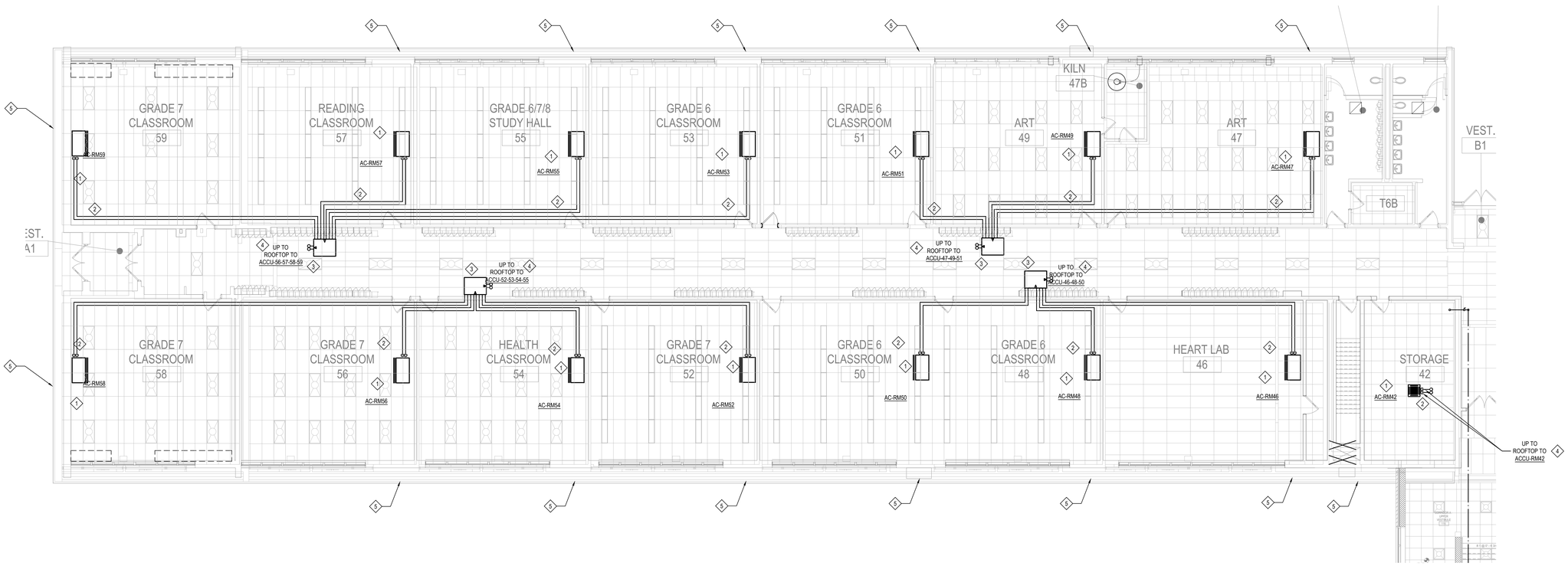
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-FIRST FLOOR NEW GLYCOL WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.18



FIRST FLOOR -MIDDLE SCHOOL- AREA "A" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   - A) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW A DROP CEILING FOR SPACES WITH CEILING GRID.
   - B) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW DEEPEST EXPOSED STEEL AND/OR BAR JOIST STRUCTURES FOR SPACES WITH NO CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. REFER TO SCHEDULES FOR ALL REFRIGERANT LINE SET PIPING SIZES
4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.
5. REFER TO HOT WATER SYSTEM NEW WORK PLANS FOR LOCATIONS OF DDC THERMOSTATS FOR EACH SPACE.
6. REFER TO HOT WATER SYSTEM NEW WORK PLANS FOR LOCATIONS OF DDC THERMOSTATS FOR EACH SPACE.

CONDENSATE DRAIN LINE GENERAL INSTALLATION NOTES:

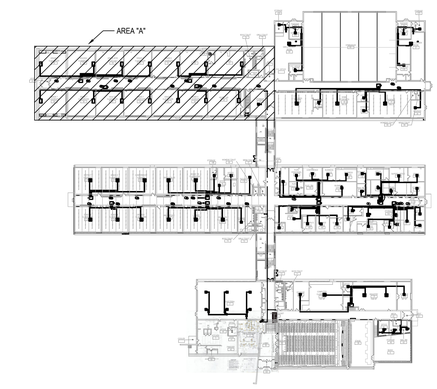
1. MC SHALL RUN NEW CONDENSATE DRAIN LINES AS SHOWN VIA 1/8-TH INCH GRAVITY PITCH AS SHOWN & RUN TO CORNER AS SHOWN THEN RUN DOWN TO SIX (6") INCHES ABOVE FINISHED FLOOR. MC TO THEN REFER TO KEY PLAN NOTES FOR DETAILS OF CORE DRILLING BY GC WITH MC PRESENT.
2. MC TO THEN FURNISH & INSTALL A STERLING THREE-SIDED 16-GAUGE PIPING COVER TO CONCEAL CONDENSATE DRAIN LINE(S) RUNNING DOWN IN CORNER. COLOR TO BE SELECTED BY ARCHITECT OF RECORD.

REFRIGERANT LINE SET PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES---MC SHALL RUN NEW REFRIGERANT PIPING LINE SETS TIGHT TO EXISTING STRUCTURE (BEAMS/BAR JOISTS) ALL THE WAY TO WALLS OF SPACES BEFORE CHANGING DIRECTIONS AS SHOWN ON PLANS.
2. OPEN CEILING SPACES---REFRIGERANT PIPING SHALL HAVE REQUIRED INSULATION WITH THICKNESS & R-VALUES AS PER SPECIFICATIONS. MC TO ALSO FURNISH & INSTALL PVC JACKETING OVER PIPING INSULATION WHICH SHALL BE A COLOR SELECTED BY ARCHITECT OF RECORD PRIOR TO RELEASE OF SUBMITTAL.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



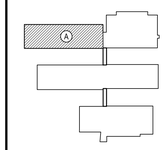
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

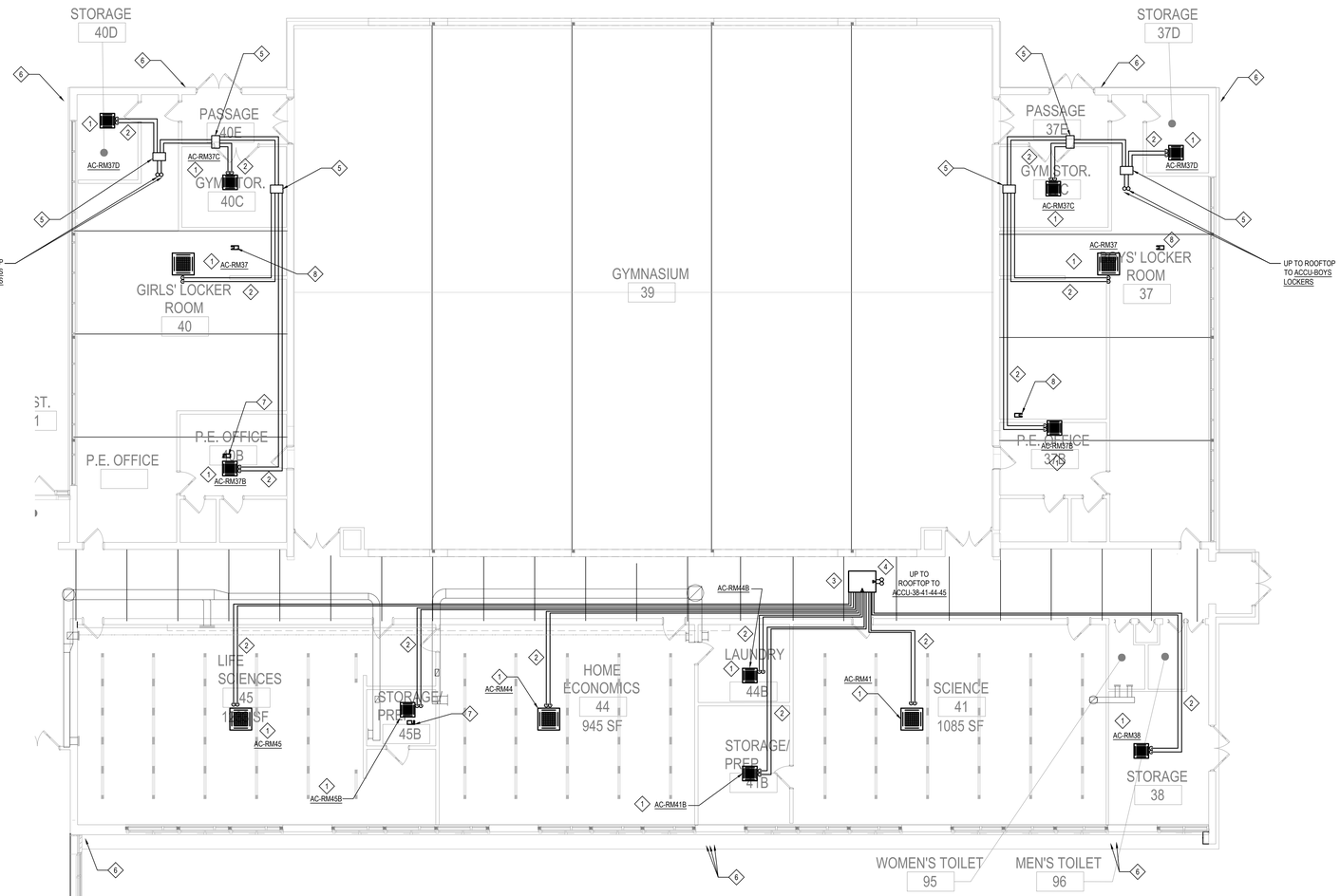
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-FIRST FLOOR NEW VRF PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.19



FIRST FLOOR -MIDDLE SCHOOL- AREA "B" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "B" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   - A) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW A DROP CEILING FOR SPACES WITH CEILING GRID.
   - B) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW DEEPEST EXPOSED STEEL AND/OR BAR JOIST STRUCTURES FOR SPACES WITH NO CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (24X24) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (33X33) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN TWO (2) REFRIGERANT LINE SETS INTO A REFRIGERANT LINE SET PIPING JOINT (PROVIDED BY APPROVED VRF SYSTEM MANUFACTURER) AS SHOWN. MC TO HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED REPRESENTATIVE VERIFY THE EXACT MODEL/SIZE/TYPE REQUIRED BASED ON EXACT FIELD LAYOUT.
6. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.
7. MC SHALL FURNISH & INSTALL A NEW PLENUM-RATED RESERVOIR CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL RUN NEW 3/8"Ø COPPER PIPING FROM AC INDOOR EVAPORATOR UNIT TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF).

   MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO INLET OF NEW PUMP AS SHOWN. MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN UP STRAIGHT UP THROUGH ROOF AS SHOWN.

   MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN ROOF WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH ROOF OPENING. SEE ROOF NEW WORK PLANS FOR ADDITIONAL SCOPE & CONTINUATION.
8. MC SHALL FURNISH & INSTALL A NEW PLENUM-RATED RESERVOIR CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL RUN NEW 3/8"Ø COPPER PIPING FROM AC INDOOR EVAPORATOR UNIT TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF).

   MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO INLET OF NEW PUMP AS SHOWN. MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN UP STRAIGHT UP THROUGH ROOF AS SHOWN.

   MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN ROOF WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH ROOF OPENING. SEE ROOF NEW WORK PLANS FOR ADDITIONAL SCOPE & CONTINUATION.

   AN EXTENDED INLET PIPING RUN IS SHOWN IN ORDER FOR TERMINATION OF CONDENSATE DRAIN PIPING FROM PUMP OUTLET TO COME UP IN AN AREA WHERE NEW ROOFTOP UNIT IS NOT SITTING.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. REFER TO SCHEDULES FOR ALL REFRIGERANT LINE SET PIPING SIZES
4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.
5. REFER TO HOT WATER SYSTEM NEW WORK PLANS FOR LOCATIONS OF DDC THERMOSTATS FOR EACH SPACE.

CONDENSATE DRAIN LINE GENERAL INSTALLATION NOTES:

1. MC SHALL RUN NEW CONDENSATE DRAIN LINES AS SHOWN V/A 1/8-TH INCH GRAVITY PITCH AS SHOWN & RUN TO CORNER AS SHOWN THEN RUN DOWN TO SIX (6") INCHES ABOVE FINISHED FLOOR. MC TO THEN REFER TO KEY PLAN NOTES FOR DETAILS OF CORE DRILLING BY GC WITH MC PRESENT.
2. MC TO THEN FURNISH & INSTALL A STERLING THREE-SIDED 16-GAUGE PIPING COVER TO CONCEAL CONDENSATE DRAIN LINE(S) RUNNING DOWN IN CORNER. COLOR TO BE SELECTED BY ARCHITECT OF RECORD.

REFRIGERANT LINE SET PIPING GENERAL INSTALLATION NOTES:

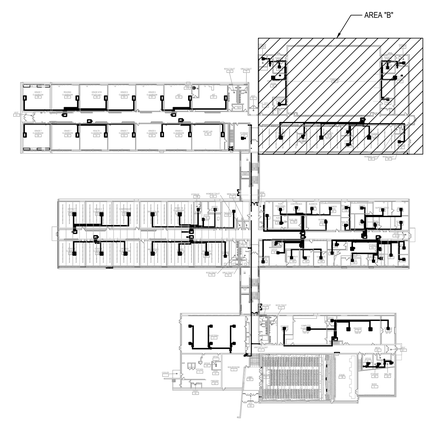
1. OPEN CEILING SPACES—MC SHALL RUN NEW REFRIGERANT PIPING LINE SETS TIGHT TO EXISTING STRUCTURE (BEAMS/BAR JOISTS) ALL THE WAY TO WALLS OF SPACES BEFORE CHANGING DIRECTIONS AS SHOWN ON PLANS.
2. OPEN CEILING SPACES—REFRIGERANT PIPING SHALL HAVE REQUIRED INSULATION WITH THICKNESS & R-VALUES AS PER SPECIFICATIONS. MC TO ALSO FURNISH & INSTALL PVC JACKETING OVER PIPING INSULATION WHICH SHALL BE A COLOR SELECTED BY ARCHITECT OF RECORD PRIOR TO RELEASE OF SUBMITTAL.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



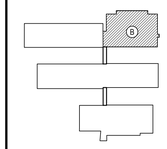
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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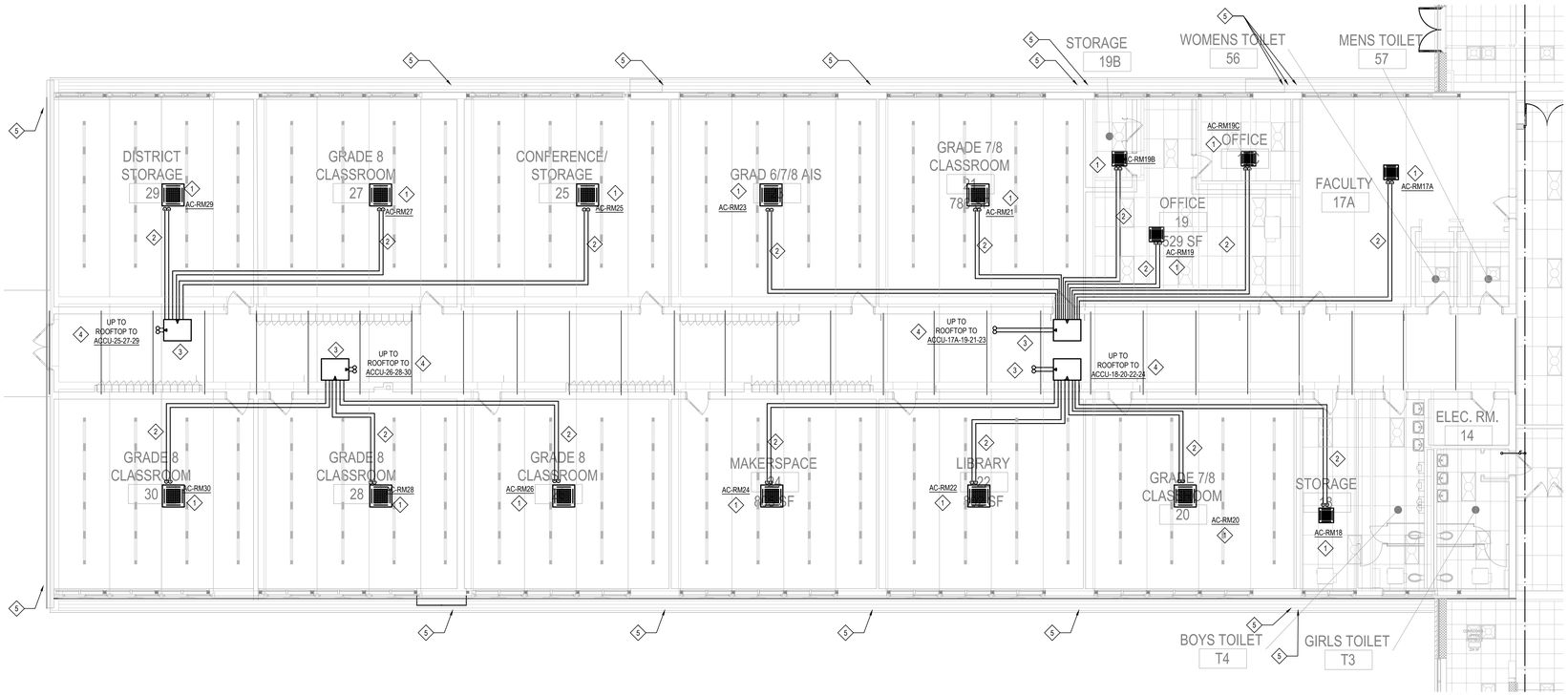
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-FIRST FLOOR NEW VRF PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.20



FIRST FLOOR -MIDDLE SCHOOL- AREA "C" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   - A) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW A DROP CEILING FOR SPACES WITH CEILING GRID.
   - B) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW DEEPEST EXPOSED STEEL AND/OR BAR JOIST STRUCTURES FOR SPACES WITH NO CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES. THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. REFER TO SCHEDULES FOR ALL REFRIGERANT LINE SET PIPING SIZES
4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.
5. REFER TO HOT WATER SYSTEM NEW WORK PLANS FOR LOCATIONS OF DDC THERMOSTATS FOR EACH SPACE.

CONDENSATE DRAIN LINE GENERAL INSTALLATION NOTES:

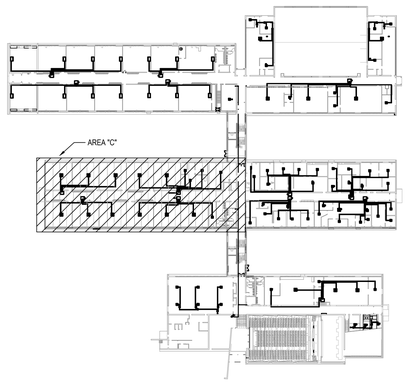
1. MC SHALL RUN NEW CONDENSATE DRAIN LINES AS SHOWN VIA 1/8-TH INCH GRAVITY PITCH AS SHOWN & RUN TO CORNER AS SHOWN THEN RUN DOWN TO SIX (6") INCHES ABOVE FINISHED FLOOR. MC TO THEN REFER TO KEY PLAN NOTES FOR DETAILS OF CORE DRILLING BY GC WITH MC PRESENT.
2. MC TO THEN FURNISH & INSTALL A STERLING THREE-SIDED 16-GAUGE PIPING COVER TO CONCEAL CONDENSATE DRAIN LINE(S) RUNNING DOWN IN CORNER. COLOR TO BE SELECTED BY ARCHITECT OF RECORD.

REFRIGERANT LINE SET PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—MC SHALL RUN NEW REFRIGERANT PIPING LINE SETS TIGHT TO EXISTING STRUCTURE (BEAMS/BAR JOISTS) ALL THE WAY TO WALLS OF SPACES BEFORE CHANGING DIRECTIONS AS SHOWN ON PLANS.
2. OPEN CEILING SPACES—REFRIGERANT PIPING SHALL HAVE REQUIRED INSULATION WITH THICKNESS & R-VALUES AS PER SPECIFICATIONS. MC TO ALSO FURNISH & INSTALL PVC JACKETING OVER PIPING INSULATION WHICH SHALL BE A COLOR SELECTED BY ARCHITECT OF RECORD PRIOR TO RELEASE OF SUBMITTAL.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



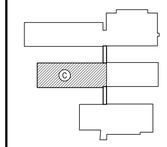
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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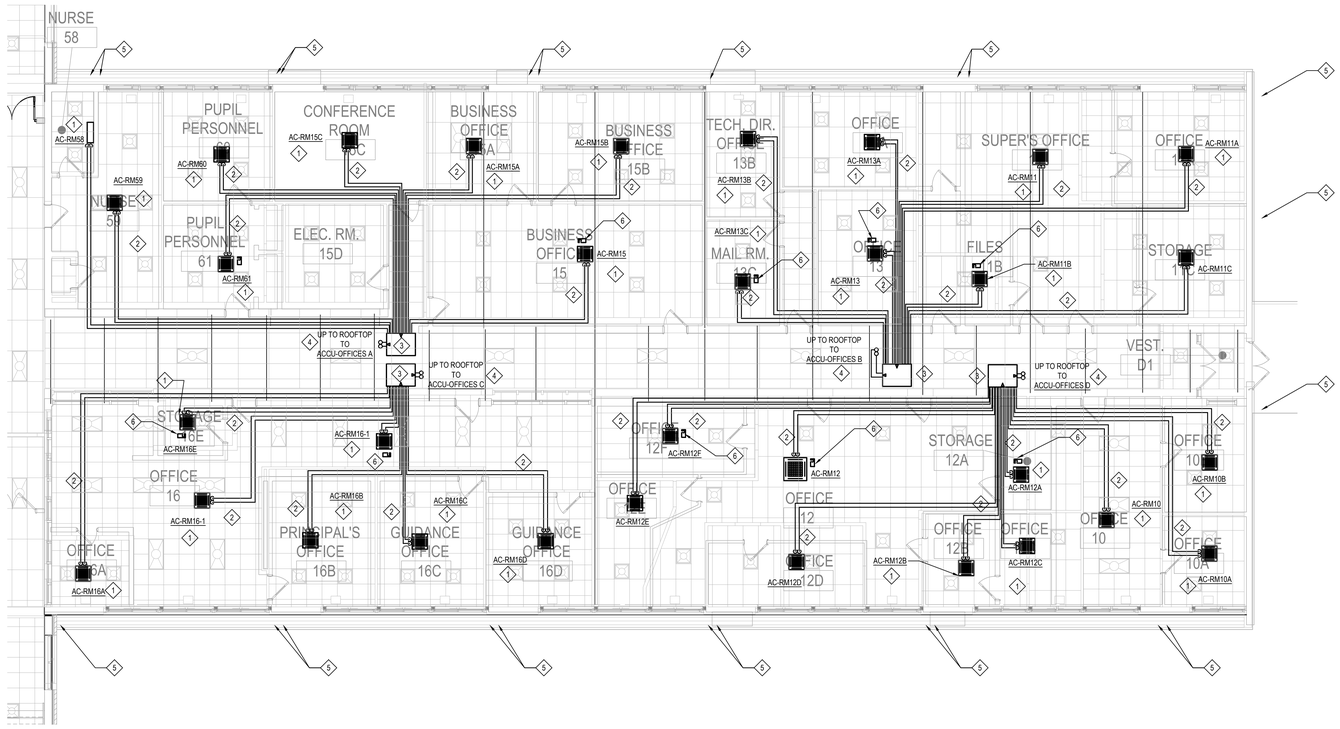
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C"-FIRST FLOOR NEW VRF PLAN
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BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.21



FIRST FLOOR -MIDDLE SCHOOL- AREA "D" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   - A) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW A DROP CEILING FOR SPACES WITH CEILING GRID.
   - B) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW DEEPEST EXPOSED STEEL AND/OR BAR JOIST STRUCTURES FOR SPACES WITH NO CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.
6. MC SHALL FURNISH & INSTALL A NEW PLENUM-RATED RESERVOIR CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL RUN NEW 3/8"Ø COPPER PIPING FROM AC INDOOR EVAPORATOR UNIT TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF).

   MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO INLET OF NEW PUMP AS SHOWN. MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN UP STRAIGHT UP THROUGH ROOF AS SHOWN.

   MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN ROOF WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH ROOF OPENING. SEE ROOF NEW WORK PLANS FOR ADDITIONAL SCOPE & CONTINUATION.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
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4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.
5. REFER TO HOT WATER SYSTEM NEW WORK PLANS FOR LOCATIONS OF DDC THERMOSTATS FOR EACH SPACE.

CONDENSATE DRAIN LINE GENERAL INSTALLATION NOTES:

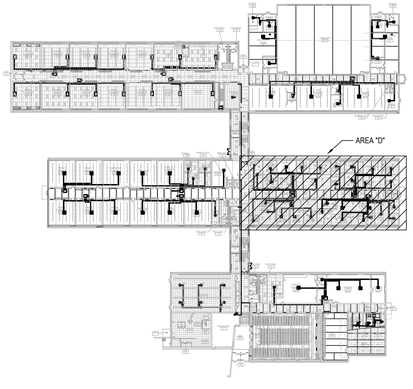
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REFRIGERANT LINE SET PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—MC SHALL RUN NEW REFRIGERANT PIPING LINE SETS TIGHT TO EXISTING STRUCTURE (BEAMS/BAR JOISTS) ALL THE WAY TO WALLS OF SPACES BEFORE CHANGING DIRECTIONS AS SHOWN ON PLANS.
2. OPEN CEILING SPACES—REFRIGERANT PIPING SHALL HAVE REQUIRED INSULATION WITH THICKNESS & R-VALUES AS PER SPECIFICATIONS. MC TO ALSO FURNISH & INSTALL PVC JACKETING OVER PIPING INSULATION WHICH SHALL BE A COLOR SELECTED BY ARCHITECT OF RECORD PRIOR TO RELEASE OF SUBMITTAL.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



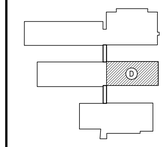
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "D"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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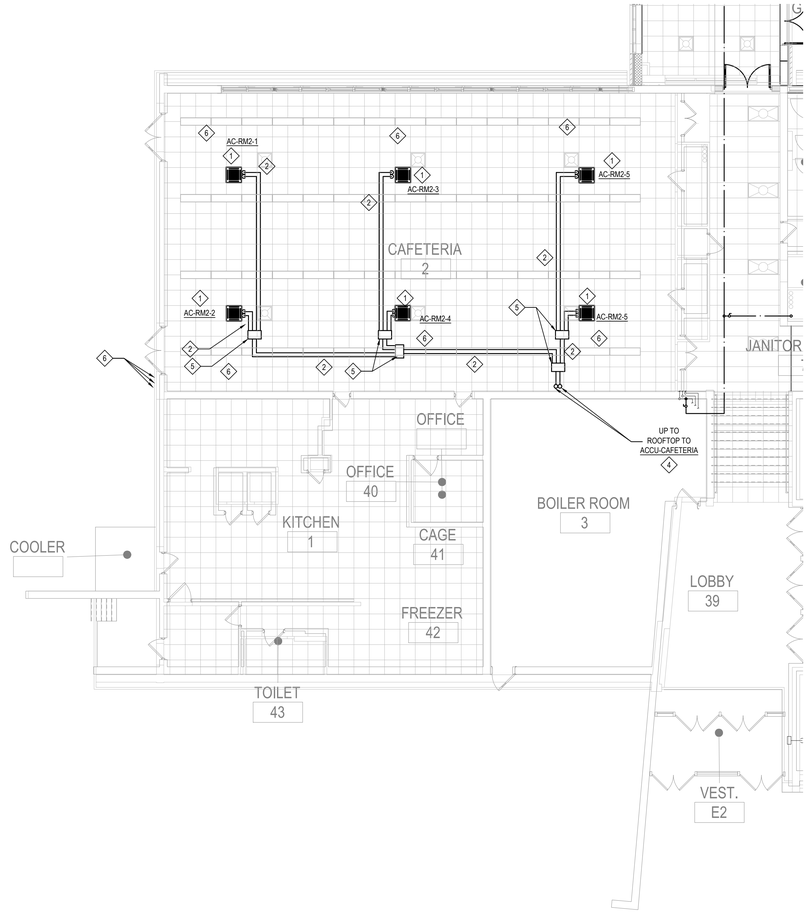
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-FIRST FLOOR NEW VRF PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
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M2.22



FIRST FLOOR -MIDDLE SCHOOL- AREA "E" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
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   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN TWO (2) REFRIGERANT LINE SETS INTO A REFRIGERANT LINE SET PIPING JOINT (PROVIDED BY APPROVED VRF SYSTEM MANUFACTURER) AS SHOWN. MC TO HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED REPRESENTATIVE VERIFY THE EXACT MODEL/SIZE/TYPE REQUIRED BASED ON EXACT FIELD LAYOUT.
6. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.

GENERAL DEMOLITION NOTES:

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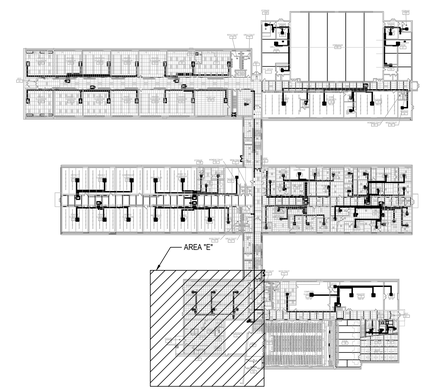
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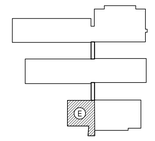
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MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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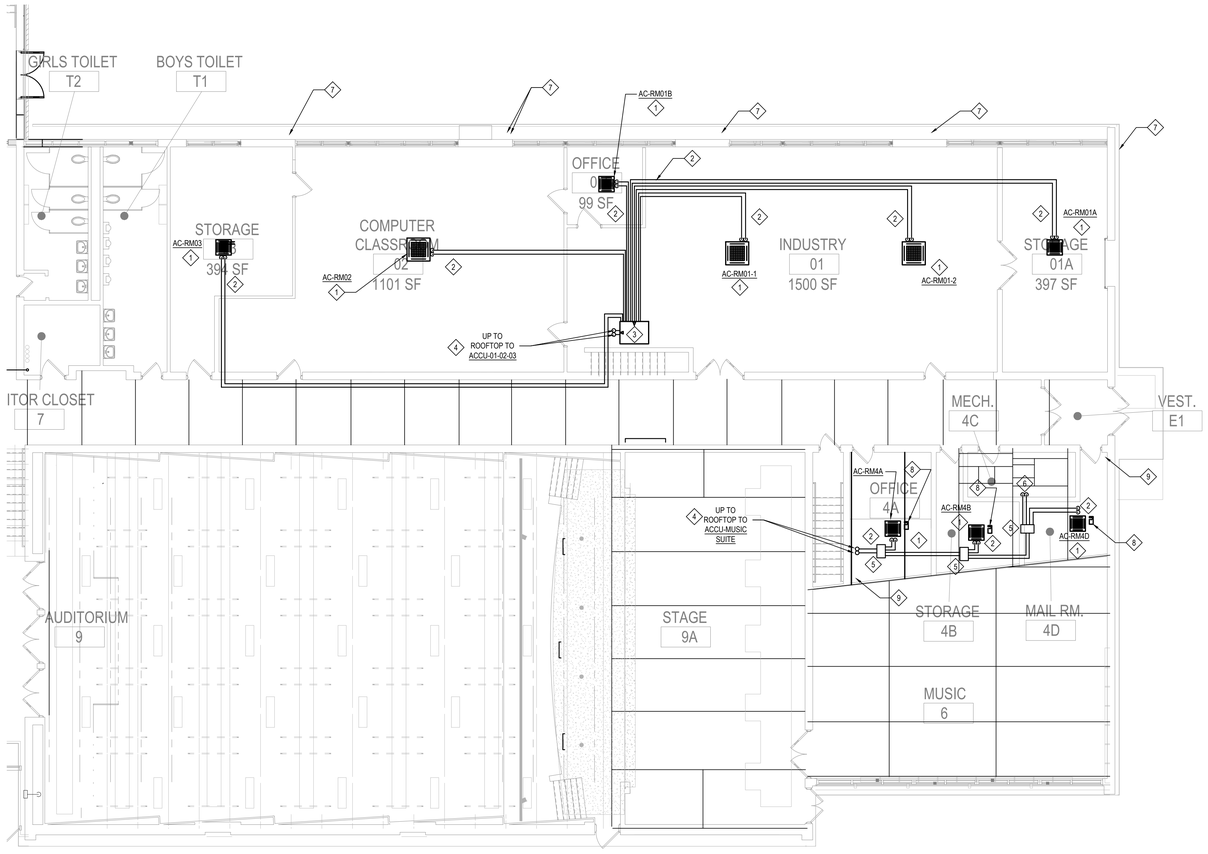
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "E"-FIRST FLOOR NEW VRF PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.23



FIRST FLOOR -MIDDLE SCHOOL- AREA "F" - NEW VRF SYSTEM - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   - A) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW A DROP CEILING FOR SPACES WITH CEILING GRID.
   - B) CEILING SUSPENDED INDOOR EVAPORATOR UNITS SHALL BE INSTALLED BELOW DEEPEST EXPOSED STEEL AND/OR BAR JOIST STRUCTURES FOR SPACES WITH NO CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH CEILING GRID.
   - C) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   - D) FOR WALL-MOUNTED INDOOR EVAPORATOR UNITS, INSTALL PER APPROVED MANUFACTURER'S REQUIREMENTS & WITHIN REQUIRED MOUNTING HEIGHTS ABOVE FINISHED FLOOR (OR BELOW CEILING GRID).
2. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
3. MC SHALL FURNISH & INSTALL NEW ENERGY RECOVERY VRF SYSTEM BRANCH BOX FOR EACH SYSTEM IN EXACT ACCORDANCE TO MANUFACTURER'S REQUIREMENTS.
4. MC SHALL HAVE GC CUT OPENINGS IN ROOF WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH ROOF. MC SHALL FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN PIPING THROUGH PIPE PORTAL SYSTEM. REFER TO ROOF PLAN FOR CONTINUATION OF WORK.
5. MC SHALL RUN TWO (2) REFRIGERANT LINE SETS INTO A REFRIGERANT LINE SET PIPING JOINT (PROVIDED BY APPROVED VRF SYSTEM MANUFACTURER) AS SHOWN. MC TO HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED REPRESENTATIVE VERIFY THE EXACT MODEL/SIZE/TYPE REQUIRED BASED ON EXACT FIELD LAYOUT.
6. MC SHALL RUN TWO (2) REFRIGERANT LINE SETS DOWN INTO FLOOR SLAB & INTO BASEMENT LEVEL. SEE M2.37 FOR CONTINUATION.
7. MC SHALL RUN NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO CORNER AS SHOWN & RUN PIPING DOWN TO FLOOR. MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN EXTERIOR BRICK WALL WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH OPENING & TERMINATE WITH A 90° DEGREE GOOSENECK. MC TO ALSO PROVIDE A CLEAN OUT WITH SCREW CAP ON NEW 90° DEGREE GOOSENECK. MC TO FIRE STOP OPENING & CAULK EXTERIOR TO MAKE OPENING WATER TIGHT.
8. MC SHALL FURNISH & INSTALL A NEW PLENUM-RATED RESERVOIR CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL RUN NEW 3/8"Ø COPPER PIPING FROM AC INDOOR EVAPORATOR UNIT TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF).

   MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO INLET OF NEW PUMP AS SHOWN. MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN UP STRAIGHT UP THROUGH ROOF AS SHOWN.

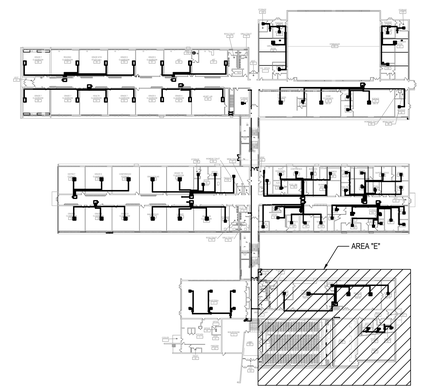
   MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN ROOF WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH ROOF OPENING. SEE ROOF NEW WORK PLANS FOR ADDITIONAL SCOPE & CONTINUATION.
9. MC SHALL RUN NEW COPPER 3/8"Ø CONDENSATE DRAIN LINE FROM BASEMENT THROUGH FLOOR SLAB IN CORNER SHOWN & CONTINUE TO RUN UP & THROUGH ROOF. MC TO HAVE GC CUT 3/8"Ø OPENING IN ROOF WITH MC PRESENT. SEE ROOF DRAWING FOR AREA "F" NEW WORK FOR CONTINUATION & ADDITIONAL SCOPE. MC TO FIRE STOP PENETRATION. MC SHALL PROVIDE A STERLING THREE-SIDED 16-GAUGE STEEL PIPING COVER TO CONCEAL PIPING SHOWN. ARCHITECT OF RECORD TO SELECT COLOR DURING SUBMITTAL PHASE.

GENERAL DEMOLITION NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. REFER TO SCHEDULES FOR ALL REFRIGERANT LINE SET PIPING SIZES
4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



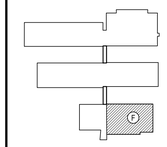
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-FIRST FLOOR MECHANICAL NEW VRF PLAN

DRAWING BY: U.F.
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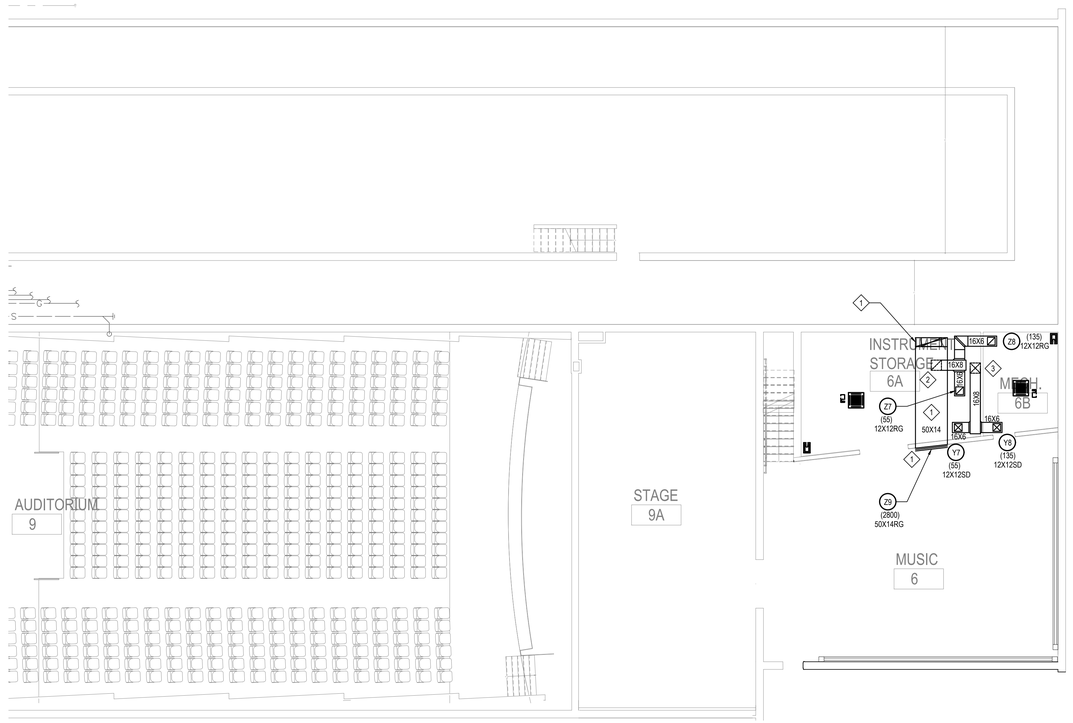
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SED No:	13-22-01-04-0-008-017
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-FIRST FLOOR NEW VRF PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.24



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "F" - NEW DUCTWORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW DUCTWORK - PARTIAL PLAN - KEY PLAN NOTES:

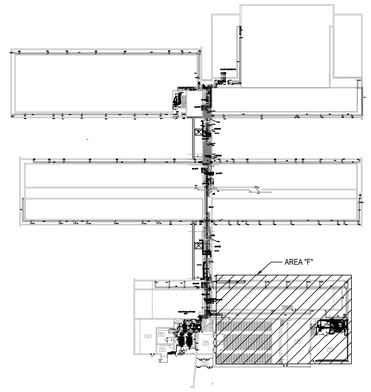
1. MC SHALL INSTALL NEW 50X14 RETURN DUCTWORK FOR BAND ROOM ROOFTOP UNIT (RTU-BAND ROOM) AS SHOWN & RUN A MINIMUM OF 18" BELOW BOTTOM OF CEILING AND EXPOSED IN SPACE AS SHOWN. MC TO THEN TURN DUCT UP 90-DEGREES & TRANSITION FROM 50X14 TO 32X14 & THEN RUN UP THROUGH FLOOR. MC TO RE-USED EXISTING 32X14 OPENING & PROVIDE FIRE STOPPING PER PROJECT MANUAL REQUIREMENTS. MC TO RE-USE EXISTING 50X14 WALL OPENING FOR TERMINATION OF 50X14 DUCT & MC TO THEN FURNISH & INSTALL NEW WALL HEAVY GAUGE MOUNTED RETURN GRILLE AT 50X14. REFER TO FIRST FLOOR NEW DUCTWORK PLANS FOR CONTINUATION.

2. MC SHALL INSTALL NEW 16X8 RETURN DUCTWORK FOR ROOFTOP DOAS UNIT (DOAS-AUDITORIUM WING-MUSIC SUITE) & RUN 10" BELOW CEILING SLAB OF SPACE SHOWN TO ALLOW FOR HYDRONIC & REFRIGERANT PIPING. MC TO THEN TURN 16X8 DUCT UP 90-DEGREES TO A 16X16 DUCT. MC TO THEN HAVE GC CUT 16X16 OPENING IN CEILING SLAB WITH MC PRESENT. MC TO THEN RUN NEW 16X16 DUCT UP THROUGH TO FIRST FLOOR LEVEL. REFER TO FIRST FLOOR NEW DUCTWORK PLANS FOR CONTINUATION. MC TO PROVIDE FIRE STOPPING AS PER PROJECT MANUAL REQUIREMENTS. RUN NEW BRANCHES IN ROOM 6A ABOVE NEW 50X14 RETURN DUCTWORK SHOWN.

3. MC SHALL INSTALL NEW 16X8 SUPPLY DUCTWORK FOR ROOFTOP DOAS UNIT (DOAS-AUDITORIUM WING-MUSIC SUITE) & RUN 10" BELOW CEILING SLAB OF SPACE SHOWN TO ALLOW FOR HYDRONIC & REFRIGERANT PIPING. MC TO THEN TURN 16X8 DUCT UP 90-DEGREES TO A 16X16 DUCT. MC TO THEN HAVE GC CUT 16X16 OPENING IN CEILING SLAB WITH MC PRESENT. MC TO THEN RUN NEW 16X16 DUCT UP THROUGH TO FIRST FLOOR LEVEL. REFER TO FIRST FLOOR NEW DUCTWORK PLANS FOR CONTINUATION. MC TO PROVIDE FIRE STOPPING AS PER PROJECT MANUAL REQUIREMENTS. RUN NEW BRANCHES IN ROOM 6A ABOVE NEW 50X14 RETURN DUCTWORK SHOWN.

GENERAL NEW WORK NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. FOR ALL DUCTWORK RUNNING THROUGH CORRIDOR WALLS INTO SPACES SHOWN, MC SHALL FURNISH & INSTALL NEW FIRE/SMOKE DAMPER WITH ACCESS DOOR ("FSD/AD") AS SHOWN ON PLANS. MC TO HAVE EC TIE EACH FIRE/SMOKE DAMPER INTO EXISTING FIRE ALARM SYSTEM.
4. FOR EACH DUCT BRANCH SHOWN, MC SHALL FURNISH & INSTALL NEW VOLUME DAMPERS FOR BALANCING OF SYSTEM.
5. FOR SMALL AIRFLOWS SHOWN BY A BROKEN ARROW, AIR IS RETURNED VIA DOOR UNDERCUT TO MAIN SPACE THEN RETURNED BACK VIA RETURN GRILLE(S)
6. REFER TO NEW HOT WATER PIPING PLANS FOR NEW DDC THERMOSTAT LOCATIONS.



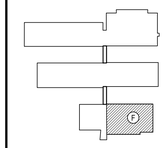
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-BASEMENT MECHANICAL NEW DUCTWORK PART PLAN

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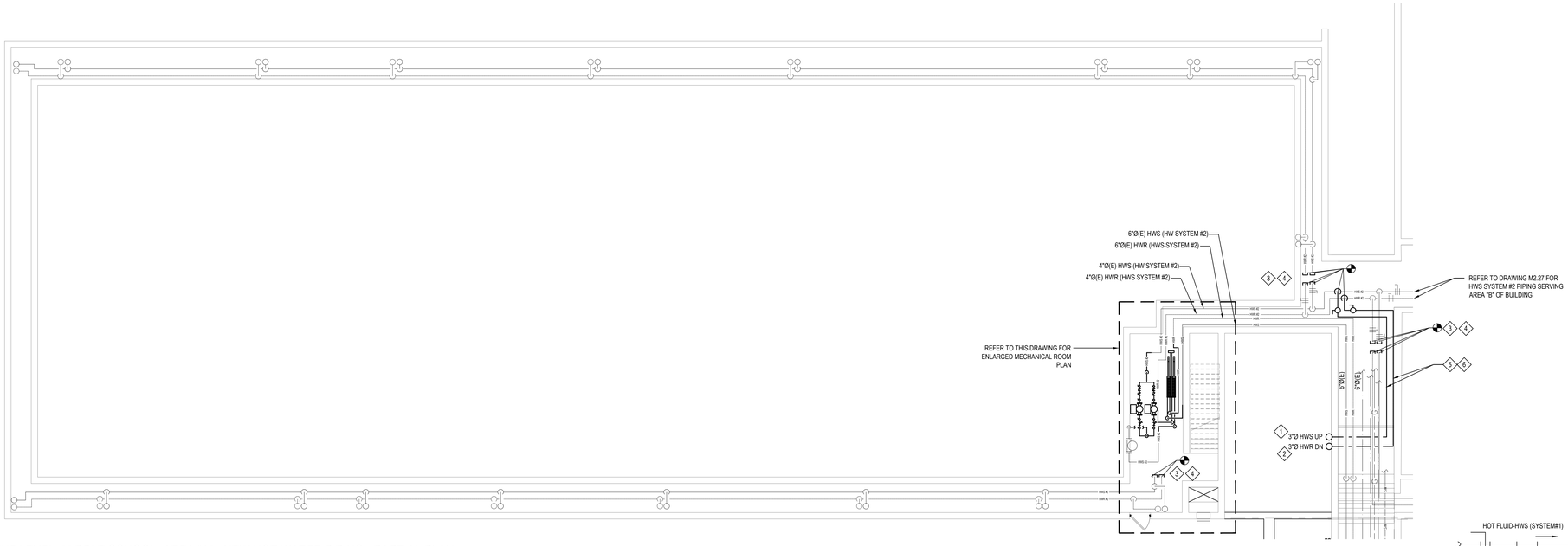
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-BASEMENT MECH. NEW DUCTWORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.25



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW HOT WATER RETURN LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
4. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.
5. MC SHALL RUN NEW 3"Ø HWS PIPING SERVING AREA "A" SECTION OF BUILDING AS SHOWN. PROVIDE SHUT OFF BALL/ISOLATION VALVE AS SHOWN.
6. MC SHALL RUN NEW 3"Ø HWR PIPING SERVING AREA "A" SECTION OF BUILDING AS SHOWN. PROVIDE SHUT OFF BALL/ISOLATION VALVE AS SHOWN.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW HOT WATER SUPPLY PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW HOT WATER RETURN PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.

PIPING LEGEND:

- BUTTERFLY VALVE
- STRAINER
- BALANCING VALVE
- CHECK VALVE
- PIPING UNION
- THREE-WAY HOT WATER CONTROL VALVE
- BALL VALVE
- TRIPLE DUTY VALVE

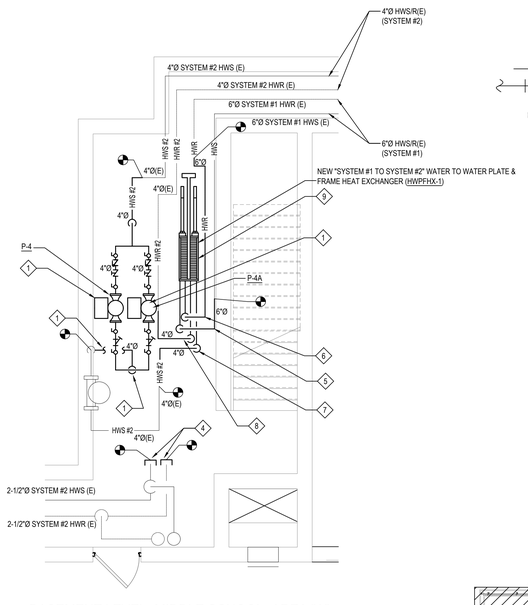
BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - BASEMENT PLAN - ENLARGED MECHANICAL ROOM - EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL INSTALL NEW SUCTION SIDE 4"Ø SYSTEM #2 HWS LINE GOING INTO NEW (SYSTEM #2) HOT WATER PUMPS (P-4 & P-4A) AS SHOWN.

   MC SHALL RUN NEW 4"Ø PIPING UP ABOVE ALL OTHER EXISTING EQUIPMENT, PIPING, TANKS SHOWN TO EASY ACCESS & SHALL INSTALL THE FOLLOWING FOR EACH NEW PUMP:
   A) NEW 4"Ø STRAINER
   B) NEW 4"Ø ISOLATION/BALL VALVES (SEE PLANS FOR QUANTITIES)
   C) NEW 4"Ø FLEXIBLE PIPING CONNECTIONS (SEE DETAILS DRAWINGS)
   D) NEW 4"Ø PIPING UNIONS (SEE DETAILS DRAWINGS)
   E) NEW 4"Ø TRIPLE DUTY VALVE
2. MC SHALL FURNISH & INSTALL NEW (SYSTEM #1) HOT WATER PUMPS (P-4 & P-4A) AS SHOWN. REFER TO SCHEDULES & DETAILS FOR FURTHER INFORMATION. NEW PUMP (P-4A) IS A STAND-BY PUMP. PUMPS SHALL BE SELF-SENSING WITH BUILT-IN VFD IN EACH PUMP.
3. MC SHALL RUN A NEW 4"Ø HWS (SYSTEM #1) LINE AFTER NEW PUMPS DOWN & RE-CONNECT TO EXISTING 4"Ø SYSTEM #1 HWS PIPING AS SHOWN.
4. MC SHALL PERMANENTLY CAP EXISTING 2-1/2"Ø HWS/HWR LINES WHICH USED TO SERVE AREA "A". REFER TO DEMO PLAN FOR THIS AREA FOR ADDITIONAL SCOPE TO BE DONE BY M.C.
5. MC SHALL RUN NEW 6"Ø HWS (SYSTEM #1) HOT WATER SUPPLY LINE AS SHOWN & CONNECT TO INLET CONNECTION OF NEW "SYSTEM #1 TO SYSTEM #2" WATER TO WATER PLATE AND FRAME HEAT EXCHANGER (HWPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 6"Ø HWS BUTTERFLY/ISOLATION VALVE
   2) 6"Ø HWS STRAINER
   3) 6"Ø HWS UNION
   4) 6"Ø HWS FLEXIBLE PIPING CONNECTION
6. MC SHALL RUN NEW 6"Ø HWR (SYSTEM #1) HOT WATER RETURN LINE AS SHOWN & CONNECT TO OUTLET CONNECTION OF NEW "SYSTEM #1 TO SYSTEM #2" WATER TO WATER PLATE AND FRAME HEAT EXCHANGER (HWPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 6"Ø HWR BUTTERFLY/ISOLATION VALVE
   2) 6"Ø HWR CHECK VALVE
   3) 6"Ø HWR UNION
   4) 6"Ø HWR FLEXIBLE PIPING CONNECTION
   5) 6"Ø NEW MODULATING THREE-WAY DDC CONTROL VALVE
7. MC SHALL RUN NEW 4"Ø HWS (SYSTEM #2) HOT WATER SUPPLY LINE AS SHOWN & CONNECT TO OUTLET CONNECTION OF NEW "SYSTEM #1 TO SYSTEM #2" WATER TO WATER PLATE AND FRAME HEAT EXCHANGER (HWPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 4"Ø HWS BUTTERFLY/ISOLATION VALVE
   2) 4"Ø HWS STRAINER
   3) 4"Ø HWS UNION
   4) 4"Ø HWS FLEXIBLE PIPING CONNECTION
8. MC SHALL RUN NEW 4"Ø HWR (SYSTEM #1) HOT WATER RETURN LINE AS SHOWN & CONNECT TO INLET CONNECTION OF NEW "SYSTEM #1 TO SYSTEM #2" WATER TO WATER PLATE AND FRAME HEAT EXCHANGER (HWPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 4"Ø HWR BUTTERFLY/ISOLATION VALVE
   2) 4"Ø HWR CHECK VALVE
   3) 4"Ø HWR UNION
   4) 4"Ø HWR FLEXIBLE PIPING CONNECTION
9. MC SHALL FURNISH & INSTALL A NEW "SYSTEM #1 TO SYSTEM #2" WATER TO WATER PLATE & FRAME HEAT EXCHANGER (HWPFHX-1) AS SHOWN. MC SHALL INSTALL ON EXISTING CONCRETE PAD & PROVIDE THE APPROVED MANUFACTURER-REQUIRED SERVICE CLEARANCES.

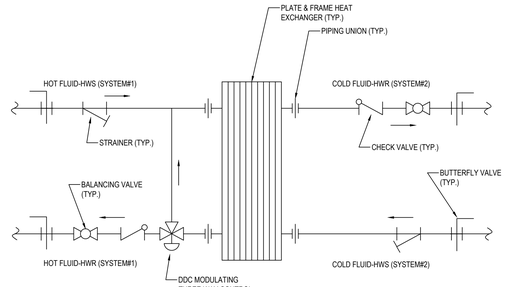
ADDITIONAL NEW WORK NOTES:

1. MC SHALL GENERATE A SCALED PIPING SHOP DRAWING WHICH SHOWS PROPOSED PIPING, EQUIPMENT LAYOUT FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.

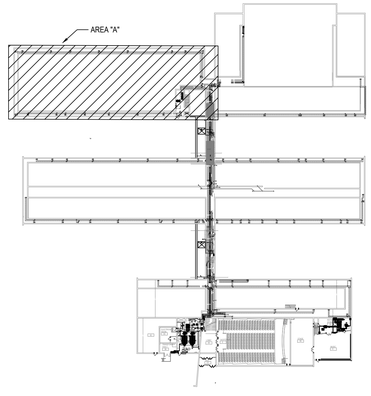


BASEMENT LEVEL -MIDDLE SCHOOL- AREA "A" - BASEMENT PLAN - ENLARGED MECHANICAL ROOM PLAN - EQUIPMENT & PIPING NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/4" = 1'-0"



NEW PLATE & FRAME HEAT EXCHANGER PIPING DETAIL:



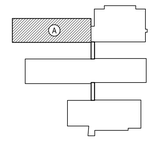
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY:	U.F.
CHECK BY:	U.F.

NOTICE

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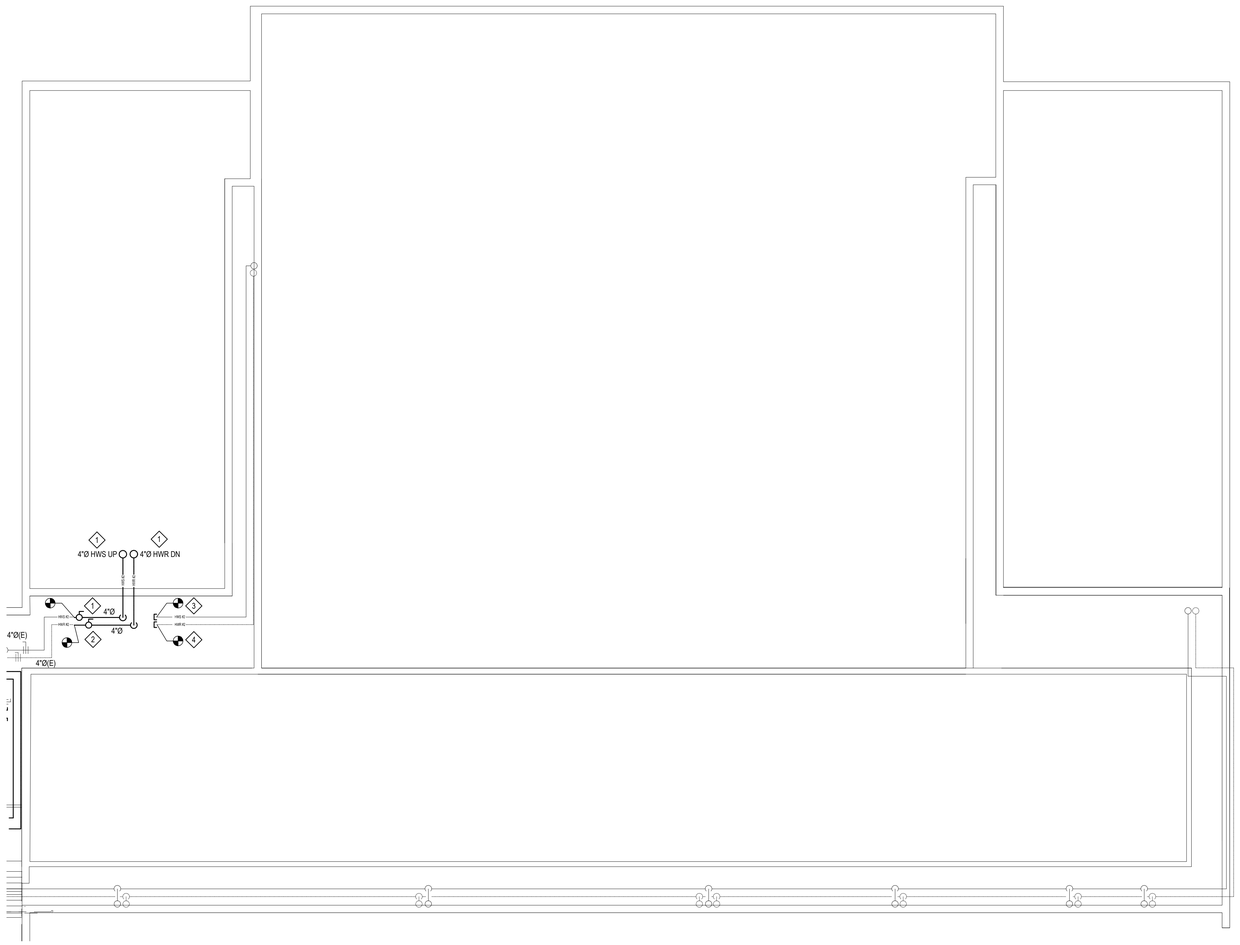
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-BASEMENT MECH. NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.26



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "B" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "B" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

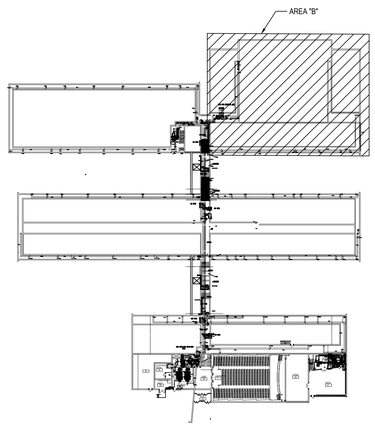
1. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW HOT WATER RETURN LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
4. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW HOT WATER SUPPLY PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW HOT WATER RETURN PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



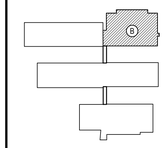
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: AREA "B"-BASEMENT MECH. NEW HOT WATER PIPING PLAN

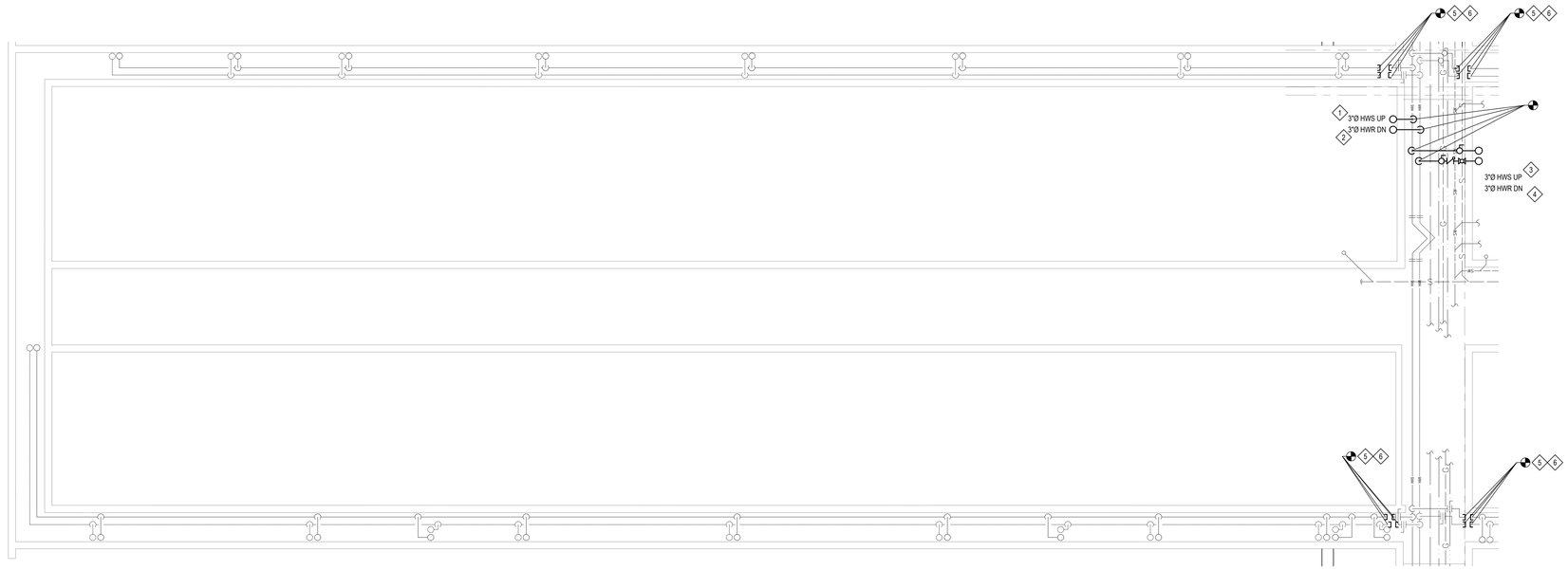
SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M2.27



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "C" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "C" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

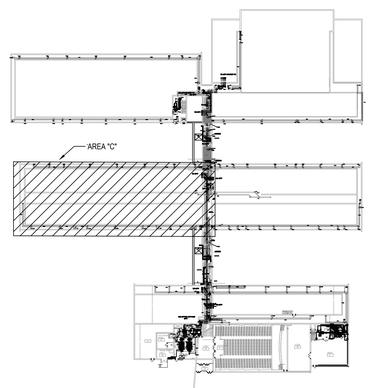
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3. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
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5. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
6. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.

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2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
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3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
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7. FOR ALL NEW HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
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11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
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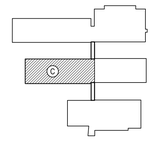
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: AREA "C"-BASEMENT MECH. NEW HOT WATER PIPING PLAN

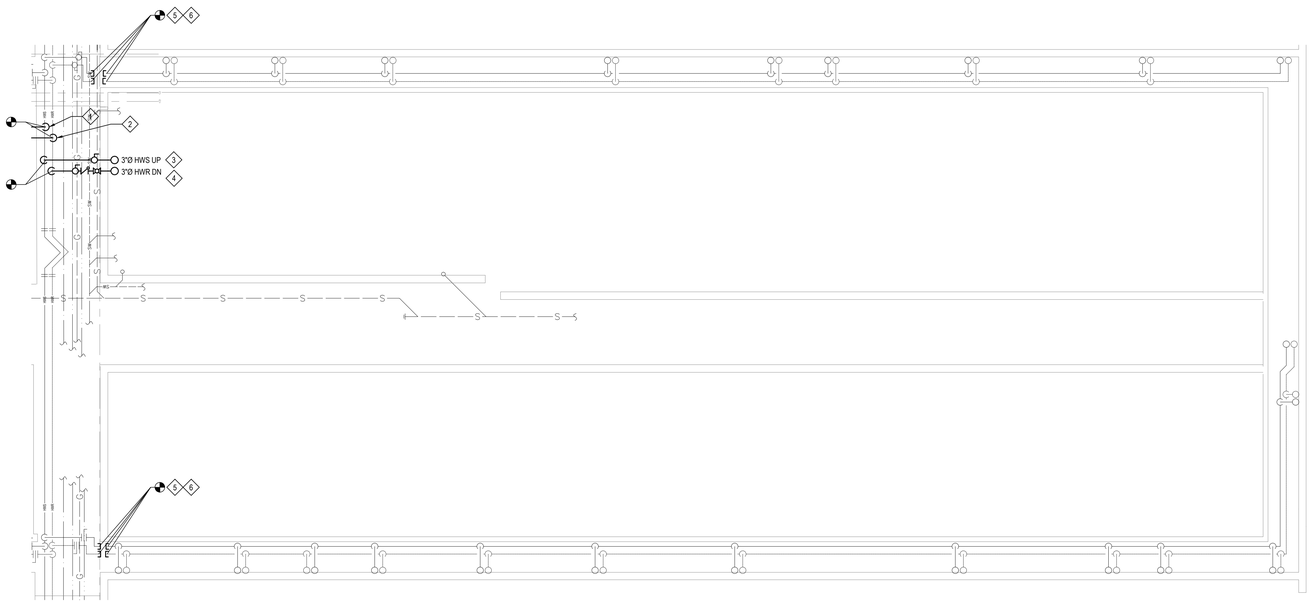
SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M2.28



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "D" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "D" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

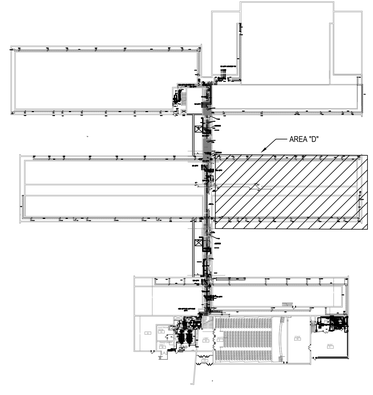
1. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "C". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. SEE M2.28 FOR FURTHER DETAILS.
2. MC SHALL RUN NEW HOT WATER RETURN LINE AS SHOWN FOR AREA "C". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. SEE M2.28 FOR FURTHER DETAILS.
3. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
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5. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
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GENERAL DEMOLITION NOTES:

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HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



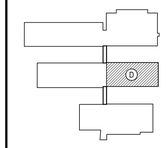
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "D"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY:	U.F.
CHECK BY:	U.F.

NOTICE

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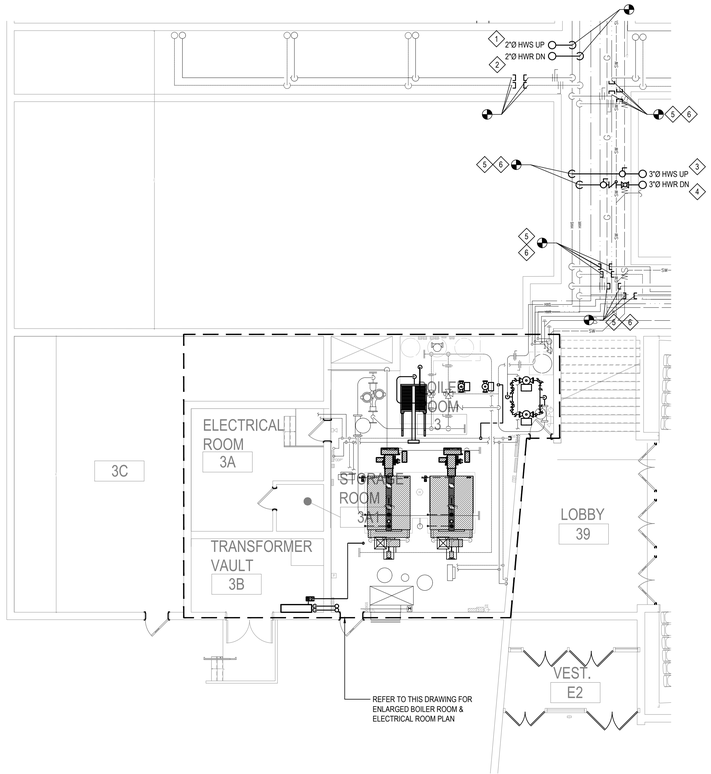
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-BASEMENT MECH. NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.29



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "E". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW HOT WATER RETURN LINE AS SHOWN FOR AREA "E". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
4. MC SHALL RUN NEW HOT WATER RETURN LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
5. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
6. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.

GENERAL DEMOLITION NOTES:

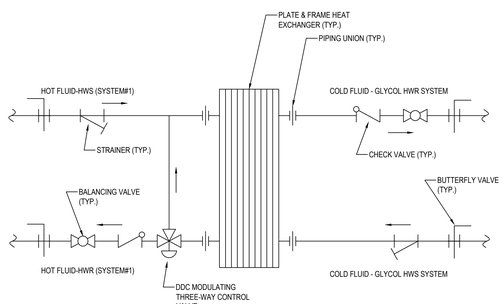
1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW HOT WATER SUPPLY PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW HOT WATER RETURN PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.

PIPING LEGEND:

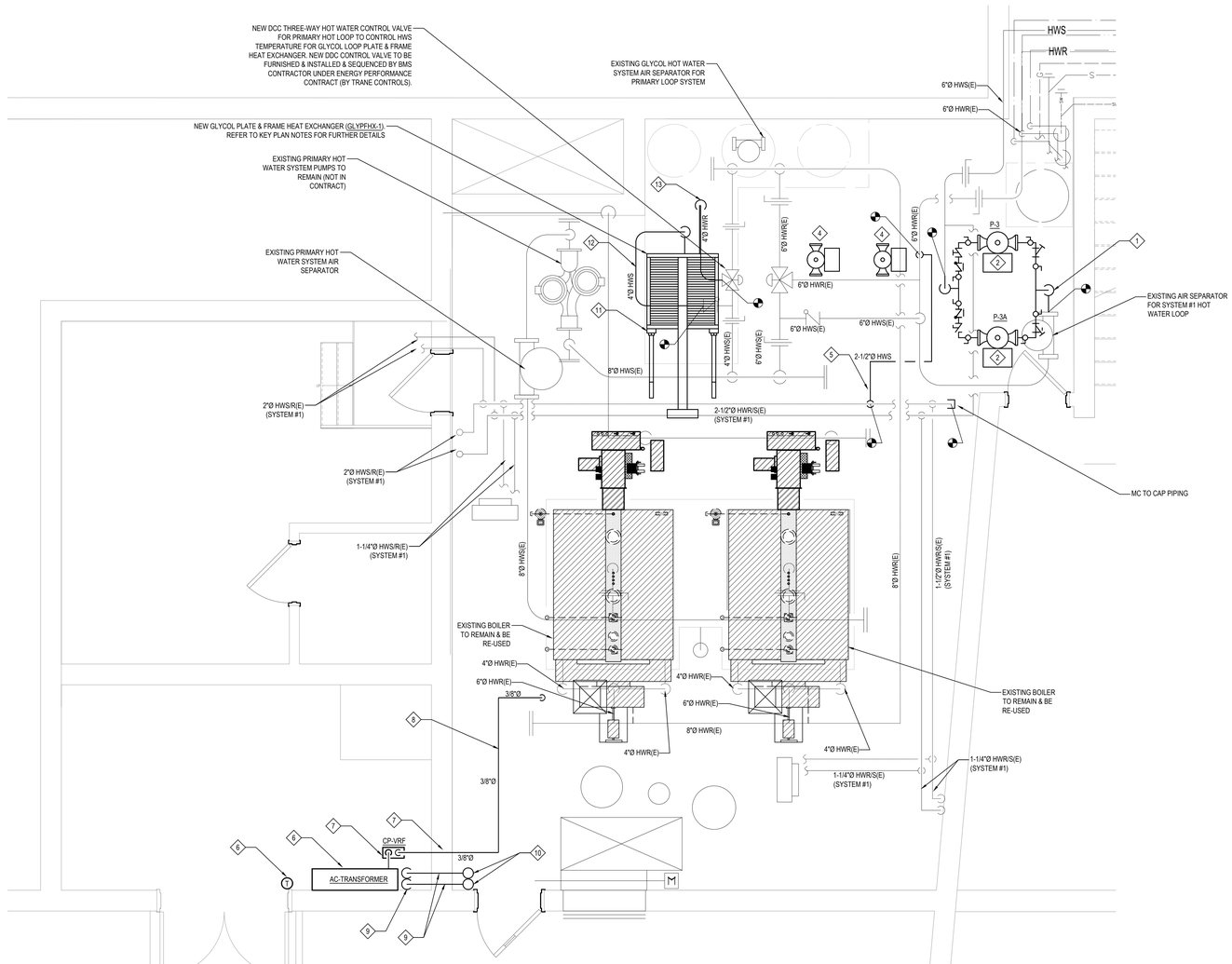
- BUTTERFLY VALVE
- STRAINER
- BALANCING VALVE
- CHECK VALVE
- PIPING UNION
- THREE-WAY HOT WATER CONTROL VALVE
- BALL VALVE
- TRIPLE DUTY VALVE

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



NEW PLATE & FRAME HEAT EXCHANGER PIPING DETAIL:



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - HOT WATER SYSTEM & VRF SYSTEM - BOILER ROOM & ELECTRICAL ROOM ENLARGED NEW WORK

MILLBROOK MIDDLE SCHOOL — SCALE: 3/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - HOT WATER SYSTEM & VRF SYSTEM - BOILER ROOM & ELECTRICAL ROOM ENLARGED NEW WORK PLAN - KEY PLAN NOTES:

1. MC SHALL INSTALL NEW SUCTION SIDE 6"Ø SYSTEM #1 HWS LINE GOING INTO NEW (SYSTEM #1) HOT WATER PUMPS (P-3 & P-3A) AS SHOWN.

   MC SHALL RUN NEW 6"Ø PIPING UP ABOVE ALL OTHER EXISTING EQUIPMENT, PIPING, TANKS SHOWN TO EASY ACCESS & SHALL INSTALL THE FOLLOWING FOR EACH NEW PUMP:
   A) NEW 6"Ø STRAINER
   B) NEW 6"Ø ISOLATION/BALL VALVES (SEE PLANS FOR QUANTITIES)
   C) NEW 6"Ø FLEXIBLE PIPING CONNECTIONS (SEE DETAILS DRAWINGS)
   D) NEW 6"Ø PIPING UNIONS (SEE DETAILS DRAWINGS)
   E) NEW 6"Ø TRIPLE DUTY VALVE
2. MC SHALL FURNISH & INSTALL NEW (SYSTEM #1) HOT WATER PUMPS (P-3 & P-3A) AS SHOWN. REFER TO SCHEDULES & DETAILS FOR FURTHER INFORMATION. NEW PUMP (P-3A) IS A STAND-BY PUMP. PUMPS SHALL BE SELF-SENSING WITH BUILT-IN VFD IN EACH PUMP.
3. MC SHALL RUN A NEW 6"Ø HWS (SYSTEM#1) LINE AFTER NEW PUMPS DOWN & RE-CONNECT TO EXISTING 6"Ø SYSTEM #1 HWS PIPING AS SHOWN.
4. LOCATION OF PROPOSED NEW GLYCOL HOT WATER SYSTEM PUMPS (GHWP-2 & GHWP-2A) WHICH ARE SHOWN FOR COORDINATION PURPOSES. REFER TO NEW BASEMENT GLYCOL PIPING DRAWING FOR FURTHER SCOPE DETAILS.
5. MC SHALL TAP OFF FROM BEFORE PRIMARY-SECONDARY DE-COUPLED PIPING CONNECTION ON THE HOT WATER RETURN (HWR) SIDE OF SYSTEM #1 AS SHOWN & RUN A NEW 2-1/2"Ø HWR LINE & CONNECT BACK TO EXISTING 2-1/2"Ø HWR PIPING AS SHOWN. MC SHALL FIELD VERIFY THIS PRIOR TO START OF ANY WORK & IF IT IS DIFFERENT, SHALL CONTACT ENGINEER OF RECORD FIRST TO ADVISE ON HOW TO PROCEED.
6. MC SHALL INSTALL NEW WALL-MOUNTED INDOOR VRF SYSTEM EVAPORATOR UNIT (AC-TRANSFORMER) ON EXTERIOR WALL AS SHOWN. MC SHALL HAVE VRF MANUFACTURER FURNISH NEW 7-DAY PROGRAMMABLE WALL-MOUNTED THERMOSTAT, WHICH MC SHALL INSTALL AS SHOWN.
7. MC SHALL FURNISH & INSTALL NEW WALL-MOUNTED INDOOR CONDENSATE REMOVAL PUMP (CP-VRF) SHOWN. MC SHALL GRAVITY PITCH A NEW 3/8"Ø COPPER TYPE K PIPING FROM INDOOR UNIT'S DRAIN PAN TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL THEN RUN A NEW 3/8"Ø COPPER TYPE K PIPING FROM OUTLET OF NEW PUMP & RUN INTO BOILER ROOM AS SHOWN. MC TO HAVE GC CORE DRILL PIPING OPENING IN WALL AS SHOWN. MC TO THEN FIRE STOP PENETRATION AFTER RUNNING PIPING INTO BOILER ROOM.
8. MC SHALL RUN A ONE-EIGHTH INCH GRAVITY PITCH FOR NEW 3/8"Ø COPPER TYPE K PIPING AS SHOWN & SHALL RUN PIPING DOWN TO 12" ABOVE BOILER ROOM FINISHED FLOOR & TERMINATE TO NEAREST FLOOR DRAIN.
9. MC SHALL RUN A NEW REFRIGERANT PIPING LINE SET, AS SHOWN, FROM INDOOR AC UNIT (AC-TRANSFORMER) & RUN INTO BOILER ROOM AS SHOWN. MC TO HAVE GC CORE DRILL PIPING OPENING IN WALL AS SHOWN. MC TO THEN FIRE STOP PENETRATION AFTER RUNNING PIPING INTO BOILER ROOM.
10. MC SHALL RUN A NEW REFRIGERANT PIPING LINE SET UP ALONG WALL IN BOILER ROOM & UP THROUGH ROOF. MC TO HAVE GC CORE DRILL TWO (2) NEW ROOF OPENINGS AS SHOWN. REFER TO DRAWING M2.42 FOR AREA "E" ROOF PLAN NEW WORK FOR CONTINUATION.
11. MC SHALL FURNISH & INSTALL A NEW GLYCOL SYSTEM PLATE & FRAME HEAT EXCHANGER (GLYPFHX-1) AS SHOWN. MC SHALL INSTALL ON EXISTING CONCRETE PAD & PROVIDE THE APPROVED MANUFACTURER-REQUIRED SERVICE CLEARANCES.
12. MC SHALL RUN NEW PRIMARY SYSTEM 4"Ø HWS BRANCH LINE FROM EXISTING CHECK VALVE & CONNECT TO HOT FLUID OUTLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
    1) 4"Ø HWS BUTTERFLY/ISOLATION VALVE
    2) 4"Ø HWS STRAINER
    3) 4"Ø HWS UNION
    4) 4"Ø HWS FLEXIBLE PIPING CONNECTION
13. MC SHALL RUN NEW PRIMARY SYSTEM 4"Ø HWR BRANCH LINE FROM EXISTING THREE-WAY HOT WATER CONTROL VALVE & CONNECT TO HOT FLUID INLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
    1) 4"Ø HWR BUTTERFLY/ISOLATION VALVE
    2) 4"Ø HWR CHECK VALVE
    3) 4"Ø HWR UNION
    4) 4"Ø HWR FLEXIBLE PIPING CONNECTION
    5) 4"Ø THREE-WAY MODULATING DDC CONTROL VALVE

(REFER TO DRAWING M2.36)—MC SHALL RUN NEW GLYCOL SYSTEM 4"Ø HWR BRANCH LINE AS SHOWN & CONNECT TO COLD FLUID INLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
1) 4"Ø GLYCOL HWR BUTTERFLY/ISOLATION VALVE
2) 4"Ø GLYCOL HWR CHECK VALVE
3) 4"Ø GLYCOL HWR UNION
4) 4"Ø GLYCOL HWR FLEXIBLE PIPING CONNECTION

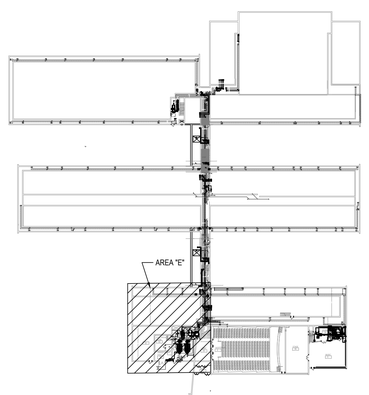
(REFER TO DRAWING M2.36)—MC SHALL RUN GLYCOL 4"Ø HWS BRANCH LINE FROM POINT SHOWN ON PLANS & CONNECT TO COLD FLUID OUTLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
1) 4"Ø GLYCOL HWS BUTTERFLY/ISOLATION VALVE
2) 4"Ø GLYCOL HWS STRAINER
3) 4"Ø GLYCOL HWS UNION
4) 4"Ø GLYCOL HWS FLEXIBLE PIPING CONNECTION

ADDITIONAL NEW WORK NOTES:
1. MC SHALL GENERATE A SCALED PIPING SHOP DRAWING WHICH SHOWS PROPOSED PIPING, EQUIPMENT LAYOUT FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - BOILER ROOM-PIPING SHOP DRAWING FOR DEMOLITION PLAN AND PROPOSED/NEW WORK PLAN NOTES:

MC SHALL GENERATE A SCALED PIPING SHOP DRAWING OF THE EXISTING CONDITIONS IN BOILER ROOM FOR REVIEW APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD PRIOR TO START OF ANY DEMOLITION WORK. MC SHALL SHOW ON THE EXISTING CONDITIONS PIPING SHOP PLAN, IF ANY EQUIPMENT IS IN A DIFFERENT PHYSICAL LOCATION VERSUS WHAT IS SHOWN ON THIS DESIGN PLAN & SHALL MAKE FLAG NOTES FOR IT.

MC SHALL ALSO PROVIDE A PROPOSED WORK/NEW WORK PIPING SHOP TO SHOW PROPOSED EQUIPMENT/PIPING IN THE LOCATIONS BASED ON THE EXISTING CONDITIONS PIPING SHOP DRAWING FOR REVIEW/APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD.



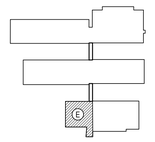
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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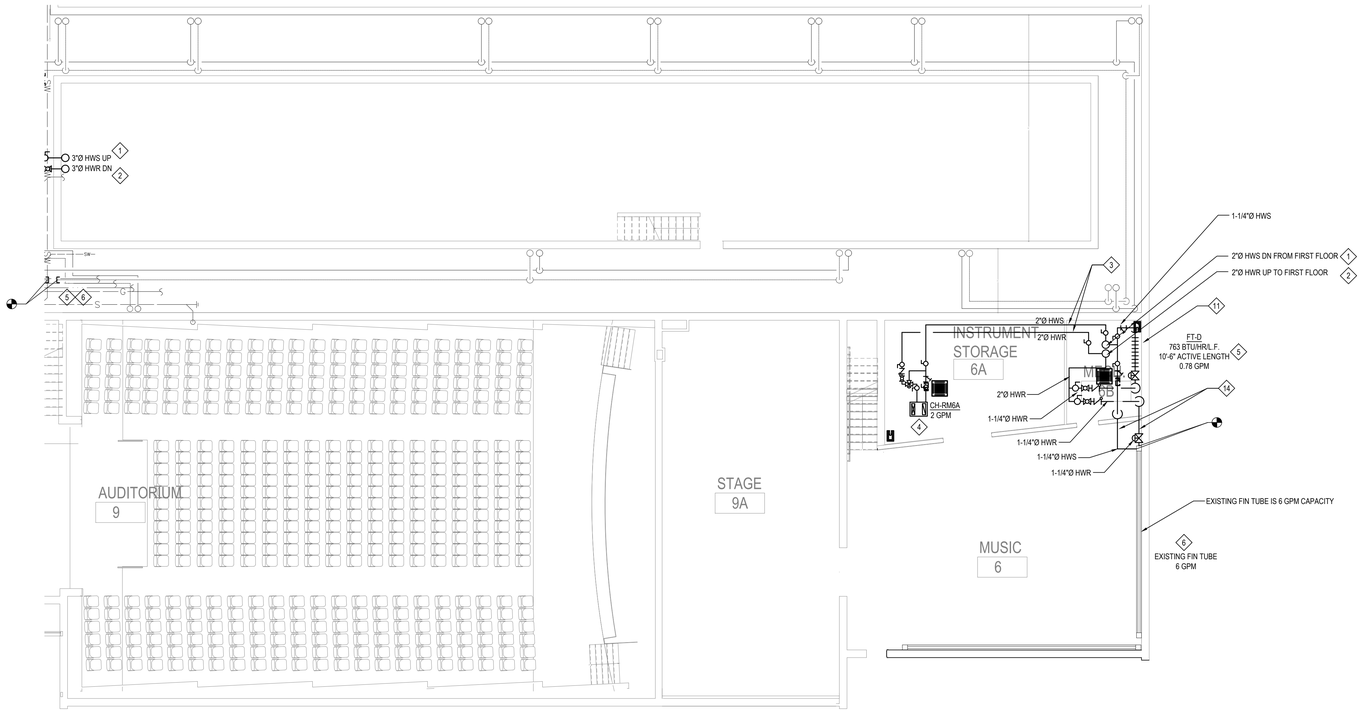
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "E"-BASEMENT MECH. NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.30



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "F" - NEW HOT WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW HOT WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

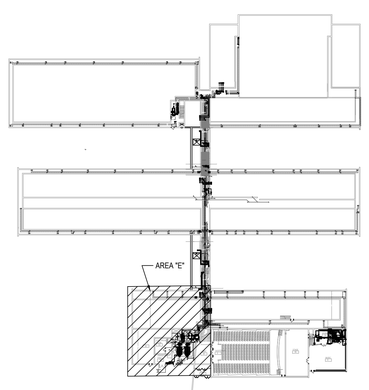
1. MC SHALL RUN NEW HOT WATER SUPPLY LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT FLOOR/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT FLOOR/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN TWO (2) NEW 2"Ø HWS/HWR LINES DOWN FROM FIRST FLOOR INTO BASEMENT LEVEL AS SHOWN. MC TO RUN PIPING TIGHT TO PLASTER CEILING & ALONG BACK OF ROOMS AS SHOWN.
4. MC SHALL FURNISH & INSTALL NEW CEILING EXPOSED CABINET HEATER. REFER TO PLANS FOR TAGS. REFER TO SCHEDULES FOR PERFORMANCE DETAILS & CONFIGURATION. INSTALL EQUIPMENT TIGHT TO LOW PLASTER CEILING & IN BACK OF ROOM.
5. MC SHALL RUN NEW 1-1/4"Ø HWS/HWR LINES TO NEW FIN TUBE (FT-D) AS SHOWN. PROVIDE NEW DDC TWO-WAY MODULATING CONTROL VALVE AS SHOWN.
6. MC SHALL RUN NEW 1-1/4"Ø HWS/HWR LINES TO EXISTING FIN TUBE IN BAND ROOM LOWER LEVEL & CONNECT TO EXISTING FIN TUBE. PROVIDE NEW CONTROL VALVE AS SHOWN.

GENERAL NEW WORK NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING R REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW HOT WATER SUPPLY PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW HOT WATER RETURN PIPING (SYSTEM #1 AND SYSTEM #2) THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
12. FOR ALL ALL NEW HOT WATER RETURN (HWR) PIPING, PRIOR TO JOINING WITH ANOTHER RETURN LINE, EACH RETURN LINE SHALL HAVE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER) IN BETWEEN.
13. FOR ALL HOT WATER SUPPLY (HWS) BRANCH LINES AFTER THEY SPLIT, PROVIDE AN ISOLATION BALL VALVE.
14. FOR EACH HWR LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A CHECK VALVE, BALANCING VALVE (CIRCUIT SETTER), & DDC MODULATING THREE-WAY HOT WATER CONTROL VALVE ALL IN BETWEEN.
15. FOR EACH HWS LINES CONNECTED TO TERMINAL EQUIPMENT, PROVIDE TWO (2) ISOLATION BALL VALVES WITH A STRAINER IN BETWEEN THEM.
16. REFER TO PLANS FOR ALL PIPING SIZES
17. REFER TO PLANS FOR ALL NEW FIN TUBE PERFORMANCE REQUIREMENTS. REFER FURTHER TO SCHEDULES FOR ADDITIONAL DETAILS ON FIN TUBE ELEMENT AND ENCLOSURE DETAILS.

HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW HOT WATER SUPPLY & HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



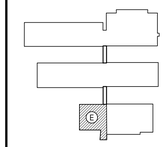
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-BASEMENT MECHANICAL NEW HOT WATER PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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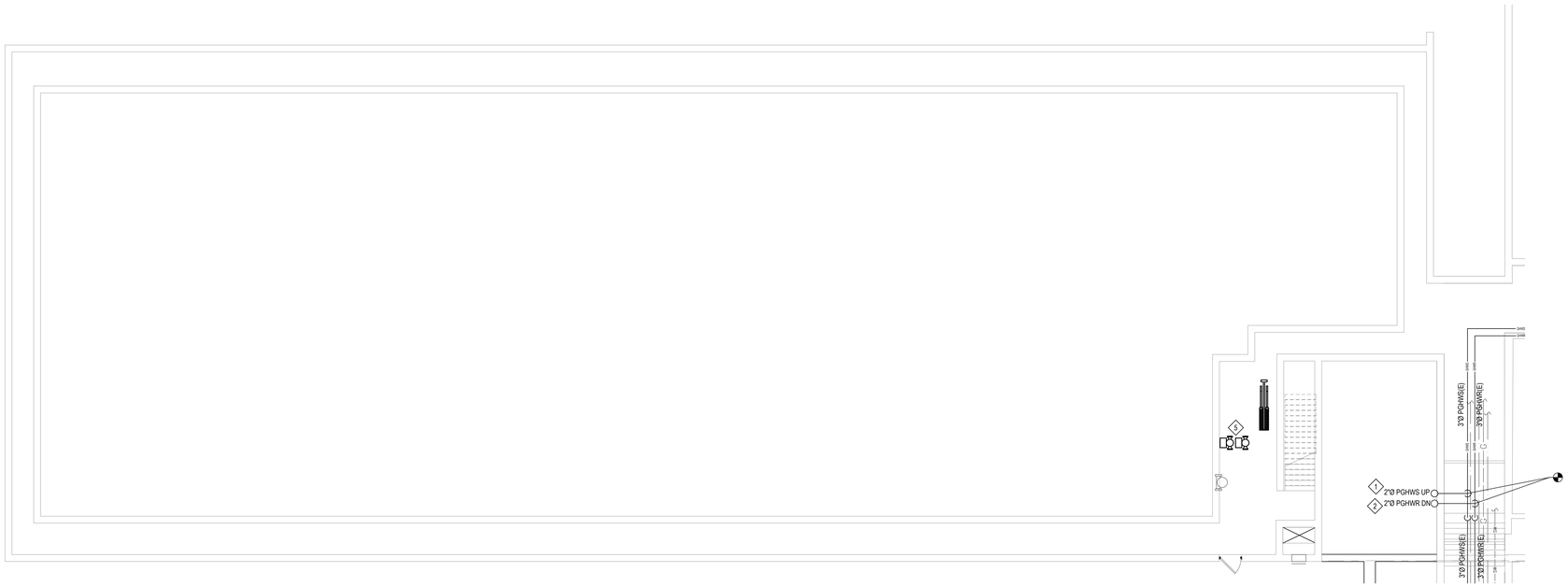
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-BASEMENT MECH. NEW HOT WATER PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.31



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "A" - NEW GLYCOL PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW GLYCOL - PARTIAL PLAN - KEY PLAN NOTES:

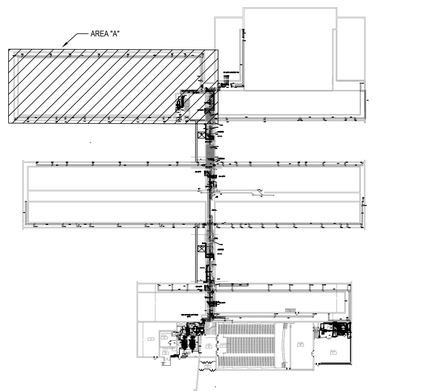
1. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN. MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
4. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.
5. SEE DRAWING M2.26 FOR DETAILS OF MECHANICAL ROOM WORK.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWS" IS GLYCOL HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWR" IS GLYCOL HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW GLYCOL HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW GLYCOL HOT WATER SUPPLY PIPING THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW GLYCOL HOT WATER RETURN PIPING THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.
12. GLYCOL PIPING IS 40% PROPYLENE GLYCOL IN COMPOSITION.

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
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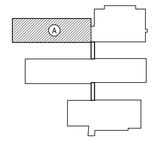
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-BASEMENT MECHANICAL NEW GLYCOL PIPING PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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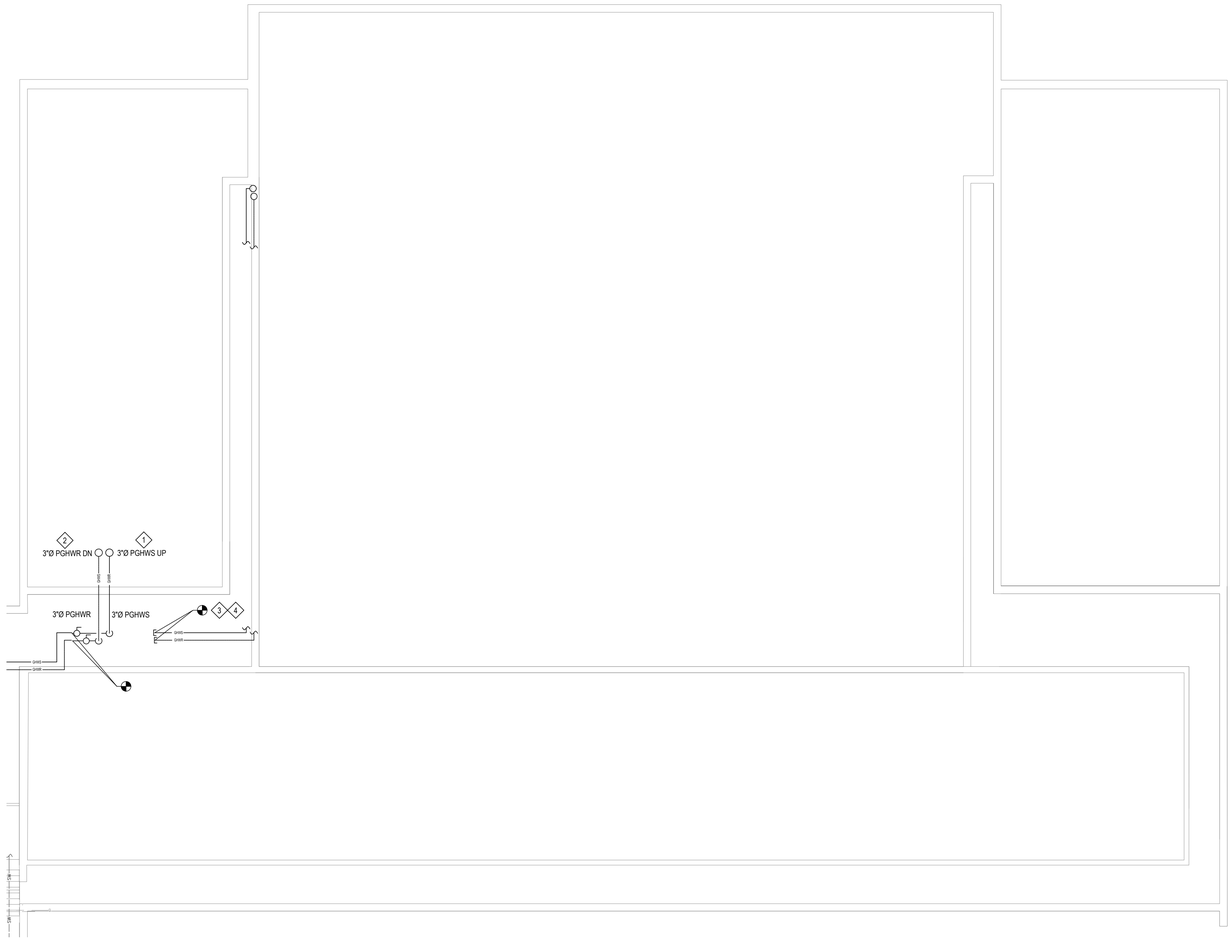
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-BASEMENT MECH. NEW GLYCOL PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.32



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "B" - NEW GLYCOL PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "B" - NEW GLYCOL - PARTIAL PLAN - KEY PLAN NOTES:

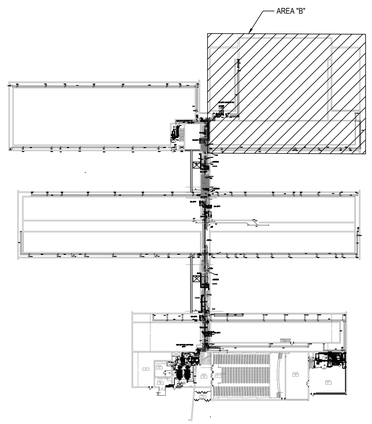
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GENERAL DEMOLITION NOTES:

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3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
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11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.
12. GLYCOL PIPING IS 40% PROPYLENE GLYCOL IN COMPOSITION.

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

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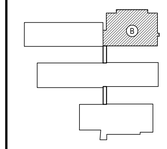
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "B"-BASEMENT MECHANICAL NEW GLYCOL PIPING PLAN

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

NOTICE

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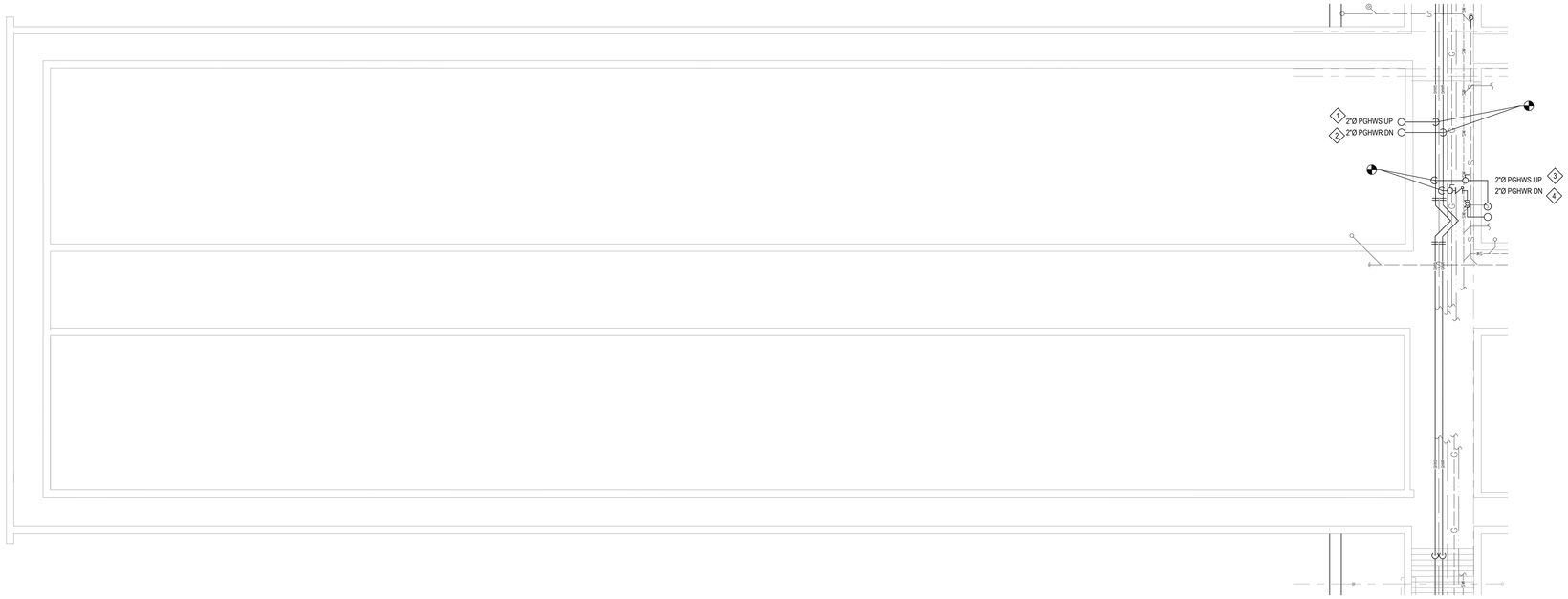
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-BASEMENT MECH. NEW GLYCOL PIPING PLAN
SCALE:	AS NOTED
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M2.33



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "C" - NEW GLYCOL PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW GLYCOL - PARTIAL PLAN - KEY PLAN NOTES:

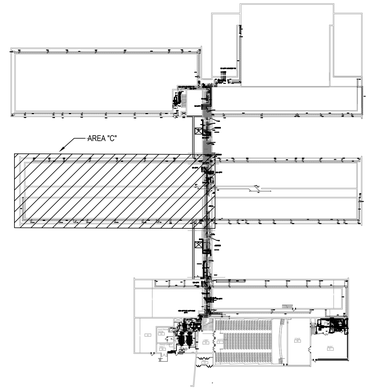
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2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "C". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
4. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
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GENERAL DEMOLITION NOTES:

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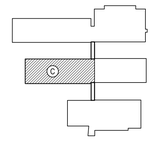
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "C"-BASEMENT MECHANICAL NEW GLYCOL PIPING PLAN

DWG TITLE

DRAWING BY:	U.F.
CHECK BY:	U.F.

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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C"-BASEMENT MECH. NEW GLYCOL PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.34



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "D" - NEW GLYCOL PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW GLYCOL - PARTIAL PLAN - KEY PLAN NOTES:

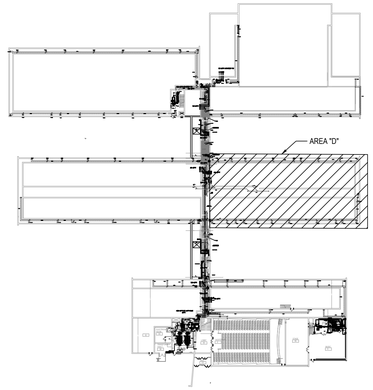
1. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. REFER TO BASEMENT PLAN M2.34 FOR FURTHER DETAILS.
2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "D". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. REFER TO BASEMENT PLAN M2.34 FOR FURTHER DETAILS.
3. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
4. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWS" IS GLYCOL HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWR" IS GLYCOL HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW GLYCOL HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW GLYCOL HOT WATER SUPPLY PIPING THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW GLYCOL HOT WATER RETURN PIPING THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.
12. GLYCOL PIPING IS 40% PROPYLENE GLYCOL IN COMPOSITION.

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES—FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW GLYCOL HOT WATER SUPPLY & GLYCOL HOT WATER RETURN PIPING FOR PROPOSED/NEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TO/FROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



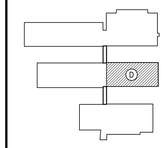
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "D"-BASEMENT MECHANICAL NEW GLYCOL PIPING PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

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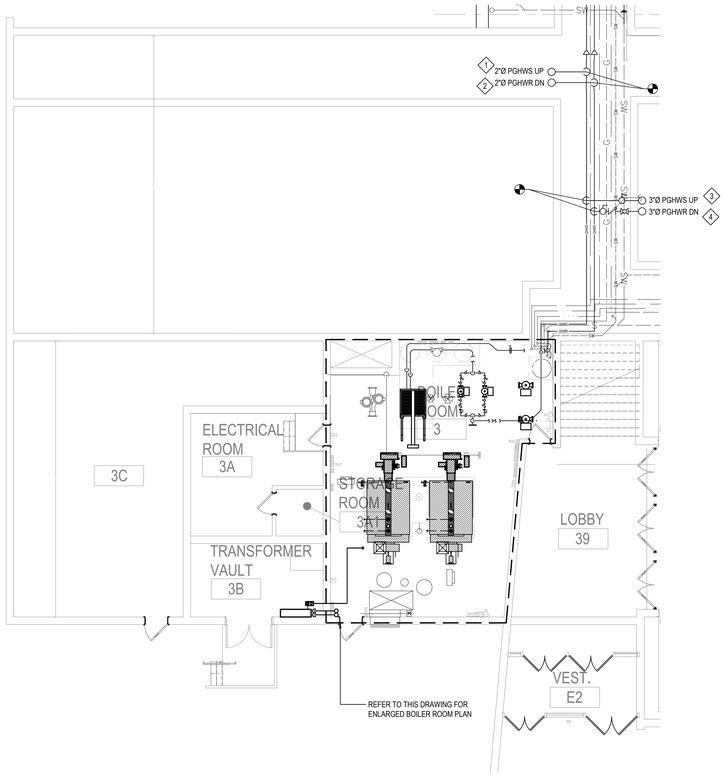
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M2.35



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - NEW GLYCOL PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW GLYCOL - PARTIAL PLAN - KEY PLAN NOTES:

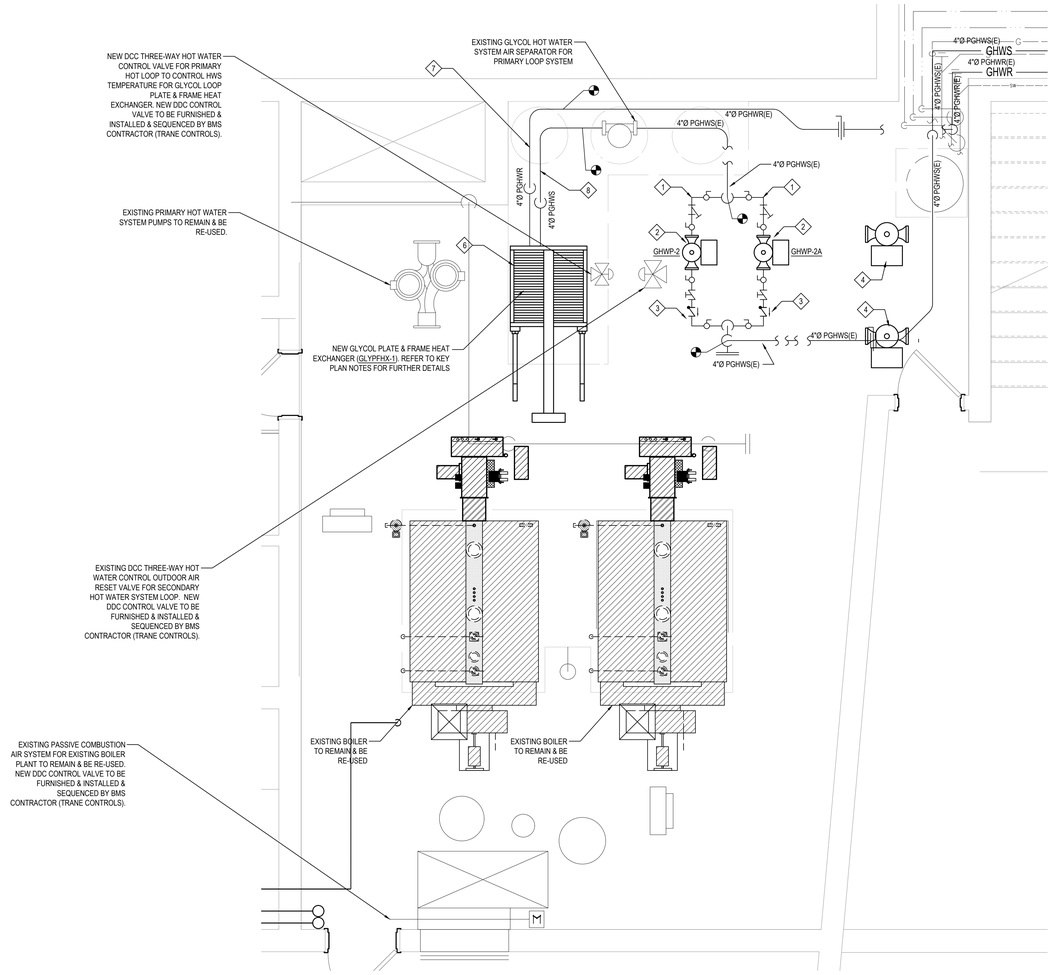
1. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN FOR AREA "E". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "E". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
3. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
4. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION.
5. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
6. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.

GENERAL DEMOLITION NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWS" IS GLYCOL HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWR" IS GLYCOL HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW GLYCOL HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW GLYCOL HOT WATER SUPPLY PIPING THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW GLYCOL HOT WATER RETURN PIPING THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.
12. GLYCOL PIPING IS 40% PROPYLENE GLYCOL IN COMPOSITION.

GLYCIOL HOT WATER SUPPLY & RETURN PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES---FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC SHALL RUN IT ALL TIGHT TO BELOW THE EXISTING STEEL STRUCTURES SHOWN ON PLANS.
2. OPEN CEILING SPACES---FOR ALL NEW HYDRONIC GLYCOL HOT WATER SUPPLY & RETURN PIPING, MC TO PROVIDE CODE REQUIRED INSULATION THICKNESSES AND R-VALUES. OVER THE INSULATION, MC SHALL FURNISH & INSTALL PVC JACKETING ON ALL PIPING EXPOSED TO SPACES. ARCHITECT OF RECORD SHALL SELECT COLOR FOR PVC JACKETING IN SUBMITTAL PHASE.
3. FOR ALL NEW GLYCOL HOT WATER SUPPLY & GLYCOL HOT WATER RETURN PIPING FOR PROPOSEDNEW FIN TUBES, MC TO RUN PIPING DOWN ALONG EACH CORNER TIGHT TO CORNER & SHALL FURNISH & INSTALL NEW STERLING THREE-SIDED 16-GAUGE PIPE COVERS WHICH SHALL MEET CUSTOM COLOR REQUIREMENTS SELECTED BY ARCHITECT OF RECORD. FOR HORIZONTAL PIPING TOFROM ACTIVE LENGTH FIN TUBE, THE APPROVED FIN TUBE ENCLOSURE MANUFACTURER SHALL PROVIDE COVERS/ENCLOSURE FOR THIS PIPING.



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - GLYCOL HOT WATER SYSTEM - BOILER ROOM ENLARGED NEW WORK

MILLBROOK MIDDLE SCHOOL — SCALE: 3/8" = 1'-0"

PIPING LEGEND:

- BUTTERFLY VALVE
- STRAINER
- BALANCING VALVE
- CHECK VALVE
- PIPING UNION
- THREE-WAY HOT WATER CONTROL VALVE
- BALL VALVE
- TRIPLE DUTY VALVE

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - GLYCOL HOT WATER SYSTEM - BOILER ROOM ENLARGED NEW WORK PLAN - KEY PLAN NOTES:

1. MC SHALL INSTALL NEW SUCTION SIDE 4"Ø GLYCOL HWS LINE GOING INTO PROPOSED GLYCOL HOT WATER PUMPS (GHWP-2 & GHWP-2A) AS SHOWN.

   MC SHALL RUN NEW 4"Ø PIPING AS SHOWN & SHALL INSTALL THE FOLLOWING FOR EACH NEW PUMP:
   A) NEW 4"Ø STRAINER
   B) NEW 4"Ø ISOLATION/BALL VALVES (SEE PLANS FOR QUANTITIES)
   C) NEW 4"Ø FLEXIBLE PIPING CONNECTIONS (SEE DETAILS DRAWINGS)
   D) NEW 4"Ø PIPING UNIONS (SEE DETAILS DRAWINGS)
   E) NEW 4"Ø TRIPLE DUTY VALVE
2. MC SHALL FURNISH & INSTALL NEW GLYCOL HOT WATER PUMPS (GHWP-2 & GHWP-2A) AS SHOWN. REFER TO SCHEDULES & DETAILS FOR FURTHER INFORMATION. NEW PUMP (GHWP-2A) IS A STAND-BY PUMP. PUMPS SHALL BE SELF-SENSING WITH BUILT-IN VFD IN EACH PUMP.
3. MC SHALL RUN A NEW 4"Ø GLYCOL HWS LINE AFTER NEW PUMPS AS SHOWN & RE-CONNECT TO EXISTING 4"Ø GLYCOL HWS PIPING AS SHOWN.
4. LOCATION OF PROPOSED NEW SYSTEM #1 HOT WATER SYSTEM PUMPS (P-3 & P-3A) WHICH ARE SHOWN FOR COORDINATION PURPOSES. REFER TO NEW BASEMENT HOT WATER (SYSTEM #1) PIPING DRAWING FOR FURTHER SCOPE DETAILS.
6. MC SHALL FURNISH & INSTALL A NEW GLYCOL SYSTEM PLATE & FRAME HEAT EXCHANGER (GLYPFHX-1) AS SHOWN. MC SHALL INSTALL ON EXISTING CONCRETE PAD & PROVIDE THE APPROVED MANUFACTURER-REQUIRED SERVICE CLEARANCES.
7. MC SHALL RUN NEW GLYCOL SYSTEM 4"Ø HWR BRANCH LINE AS SHOWN & CONNECT TO COLD FLUID INLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 4"Ø GLYCOL HWR BUTTERFLY/ISOLATION VALVE
   2) 4"Ø GLYCOL HWR CHECK VALVE
   3) 4"Ø GLYCOL HWR UNION
   4) 4"Ø GLYCOL HWR FLEXIBLE PIPING CONNECTION
8. MC SHALL RUN GLYCOL 4"Ø HWS BRANCH LINE FROM POINT SHOWN ON PLANS & CONNECT TO COLD FLUID OUTLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
   1) 4"Ø GLYCOL HWS BUTTERFLY/ISOLATION VALVE
   2) 4"Ø GLYCOL HWS STRAINER
   3) 4"Ø GLYCOL HWS UNION
   4) 4"Ø GLYCOL HWS FLEXIBLE PIPING CONNECTION

(REFER TO DRAWING M2.30)---MC SHALL RUN NEW PRIMARY SYSTEM 4"Ø HWS BRANCH LINE FROM EXISTING CHECK VALVE & CONNECT TO HOT FLUID OUTLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
1) 4"Ø HWS BUTTERFLY/ISOLATION VALVE
2) 4"Ø HWS STRAINER
3) 4"Ø HWS UNION
4) 4"Ø HWS FLEXIBLE PIPING CONNECTION

(REFER TO DRAWING M2.30)---MC SHALL RUN NEW PRIMARY SYSTEM 4"Ø HWR BRANCH LINE FROM EXISTING THREE-WAY HOT WATER CONTROL VALVE & CONNECT TO HOT FLUID INLET SIDE OF NEW GLYCOL SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1). MC TO PROVIDE THE FOLLOWING ON PIPING PRIOR TO CONNECTION WITH NEW HEAT EXCHANGER:
1) 4"Ø HWR BUTTERFLY/ISOLATION VALVE
2) 4"Ø HWR CHECK VALVE
3) 4"Ø HWR UNION
4) 4"Ø HWR FLEXIBLE PIPING CONNECTION

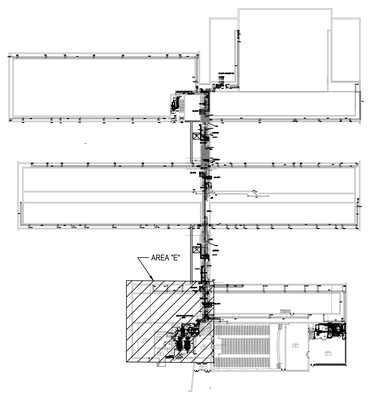
ADDITIONAL NEW WORK NOTES:

1. MC SHALL GENERATE A SCALED PIPING SHOP DRAWING WHICH SHOWS PROPOSED PIPING, EQUIPMENT LAYOUT FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - BOILER ROOM-PIPING SHOP DRAWING FOR DEMOLITION PLAN AND PROPOSED/NEW WORK PLAN NOTES:

MC SHALL GENERATE A SCALED PIPING SHOP DRAWING OF THE EXISTING CONDITIONS IN BOILER ROOM FOR REVIEW APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD PRIOR TO START OF ANY DEMOLITION WORK. MC SHALL SHOW ON THE EXISTING CONDITIONS PIPING SHOP PLAN, IF ANY EQUIPMENT IS IN A DIFFERENT PHYSICAL LOCATION VERSUS WHAT IS SHOWN ON THIS DESIGN PLAN & SHALL MAKE FLAG NOTES FOR IT.

MC SHALL ALSO PROVIDE A PROPOSED WORK/NEW WORK PIPING SHOP TO SHOW PROPOSED EQUIPMENT/PIPING IN THE LOCATIONS BASED ON THE EXISTING CONDITIONS PIPING SHOP DRAWING FOR REVIEW/APPROVAL PROCESS BY ARCHITECT/ENGINEER OF RECORD.



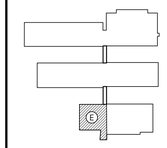
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

MECHANICAL
AREA "E"-BASEMENT MECHANICAL NEW GLYCOL PIPING PLAN

PROJECT
DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

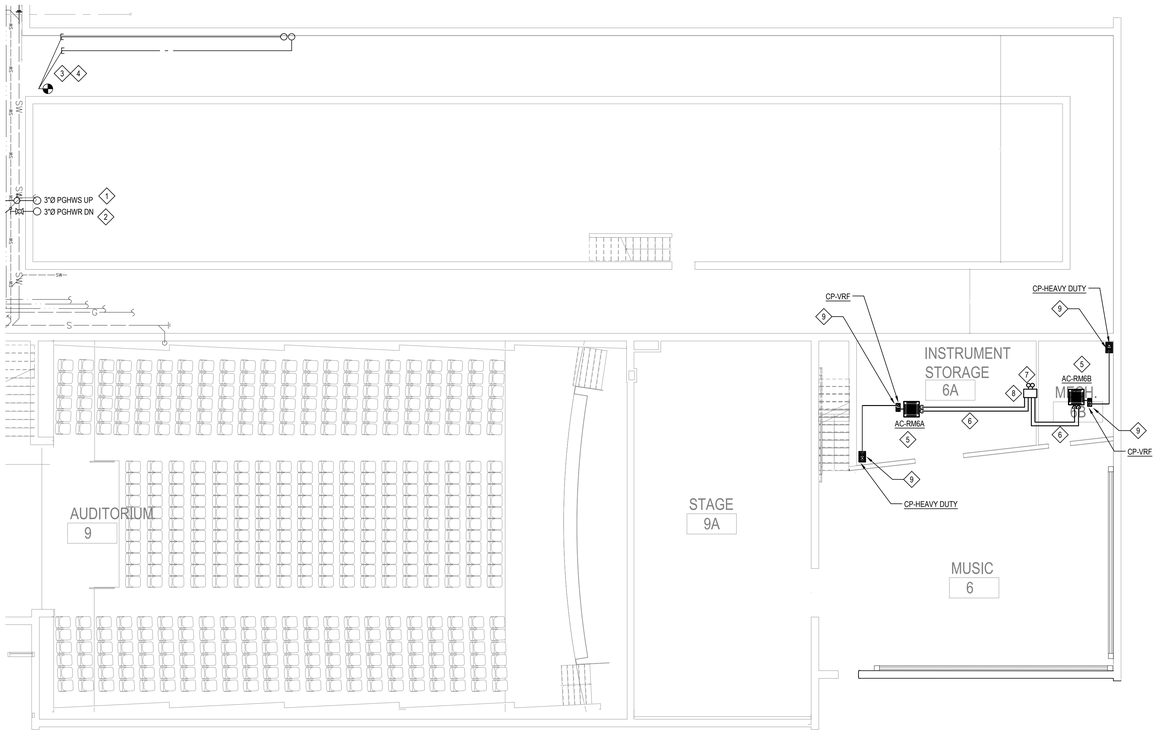
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M2.36



BASEMENT LEVEL -MIDDLE SCHOOL- AREA "E" - NEW GLYCOL PIPING & VRF SYSTEM EQUIPMENT & PIPING- PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

BASEMENT LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW GLYCOL WATER & HOT WATER & VRF SYSTEM - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RUN NEW GLYCOL HOT WATER SUPPLY LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. REFER ALSO TO BASEMENT PLAN M2.36 FOR FURTHER INFORMATION.
2. MC SHALL RUN NEW GLYCOL HOT WATER RETURN LINE AS SHOWN FOR AREA "F". MC TO HAVE GC CUT WALL/CEILING OPENINGS WITH MC PRESENT. REFER TO FIRST FLOOR NEW PIPING PLANS FOR CONTINUATION. REFER ALSO TO BASEMENT PLAN M2.36 FOR FURTHER INFORMATION.
3. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER SUPPLY PIPING NO LONGER BEING USED & ABANDON IN PLACE.
4. MC SHALL RUN PERMANENTLY CAP EXISTING BRANCH GLYCOL HOT WATER RETURN PIPING NO LONGER BEING USED & ABANDON IN PLACE.
5. MC SHALL FURNISH & INSTALL NEW INDOOR EVAPORATOR UNIT (AS SHOWN) & COORDINATE INSTALLATION WITH GC. REFER TO SCHEDULES FOR IDENTIFICATION FOR INDOOR UNIT TYPE.
   A) CEILING CASSETTE INDOOR EVAPORATOR UNITS (2X2 AND 3X3) SHALL ALL BE INSTALLED AS PER APPROVED MANUFACTURERS REQUIREMENTS FOR SPACES WITH OPEN EXPOSED CEILING.
   B) INDOOR UNITS SHALL BE EXPOSED BELOW PLASTER CEILING.
6. MC SHALL FURNISH & INSTALL NEW REFRIGERANT PIPING LINE SETS. REFER TO SCHEDULES FOR APPROXIMATE SIZES. PRIOR TO START OF WORK, MC SHALL HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE VISIT JOB SITE TO LAY OUT EXACT LOCATION AND RUN PROGRAM TO DETERMINE EXACT SIZES OF PIPING PRIOR.
7. MC SHALL HAVE GC CUT OPENINGS IN CEILING SLAB WITH MC PRESENT TO RUN NEW REFRIGERANT LINE SET PIPING UP THROUGH CEILIGN SLAB TO FIRST FLOOR.
8. MC SHALL RUN TWO (2) REFRIGERANT LINE SETS INTO A REFRIGERANT LINE SET PIPING JOINT (PROVIDED BY APPROVED VRF SYSTEM MANUFACTURER) AS SHOWN. MC TO HAVE APPROVED VRF SYSTEM FACTORY-AUTHORIZED REPRESENTATIVE VERIFY THE EXACT MODEL/SIZE/TYPE REQUIRED BASED ON EXACT FIELD LAYOUT.
9. MC SHALL FURNISH & INSTALL A NEW PLENUM-RATED RESERVOIR CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN. MC SHALL RUN NEW 3/8"Ø COPPER PIPING FROM AC INDOOR EVAPORATOR UNIT TO INLET CONNECTION OF NEW CONDENSATE REMOVAL PUMP (CP-VRF) AS SHOWN.

   MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN LINE VIA ONE-EIGHTH INCH GRAVITY PITCH AS SHOWN TO INLET OF NEW SECONDARY HEAVY DUTY PUMP AS SHOWN (CP-HEAVY DUTY). MC TO THEN RUN A NEW 3/8"Ø COPPER CONDENSATE DRAIN UP STRAIGHT UP THROUGH CEILING SLAB AS SHOWN.

   MC TO THEN HAVE GC CORE DRILL A NEW 3/8"Ø INCH OPENING IN CEILING SLAB WITH MC PRESENT. MC TO THEN RUN CONDENSATE DRAIN LINE THROUGH CEILING SLAB OPENING. MC TO FIRE STOP PENETRATION AFTER RUNNING COPPER CONDENSATE LINE UP THROUGH CEILING SLAB TO FIRST FLOOR LEVEL.

   MC SHALL SUPPORT ALL CONDENSATE PUMPS SHOWN ON THIS PLAN AS PER APPROVED MANUFACTURER'S ACCEPTABLE MEANS & METHODS.

   SEE FIRST FLOOR VRF NEW WORK PLANS FOR ADDITIONAL SCOPE & CONTINUATION.

GENERAL PIPING NEW WORK NOTES:

1. SYSTEM #1 FOR HOT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE BOILER ROOM SECONDARY PUMPS IN AREA "E".
2. SYSTEM #2 FOR OT WATER SUPPLY/RETURN (HWS/R) IS DEFINED AS THE PIPING COMING FROM THE PLATE AND FRAME HEAT EXCHANGER FOR SYSTEM #2 SHOWN ON AREA "A" PLAN.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS #2" IS SYSTEM #2 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR #2" IS SYSTEM #2 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWS" IS SYSTEM #1 HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "HWR" IS SYSTEM #1 HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
3. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWS" IS GLYCOL HOT WATER SUPPLY PIPING DISTRIBUTION SYSTEM.
4. PIPING WHICH IS SHOWN ON THE PLANS THAT IS TITLED "GHWR" IS GLYCOL HOT WATER RETURN PIPING DISTRIBUTION SYSTEM.
5. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
6. MC SHALL BE REQUIRED TO COORDINATE UNIT ALL PIPING REMOVAL GOING THROUGH BASEMENT WALLS AND CEILINGS WITH PROJECT GC PRESENT.
7. FOR ALL NEW GLYCOL HOT WATER PIPING, MC SHALL INSTALL SHUT OFF/BALL VALVE/ISOLATION VALVES FOR OWNER TO DRAIN SYSTEM WITH EASE.
8. FOR ALL NEW GLYCOL HOT WATER SUPPLY PIPING THE MC SHALL INSTALL A BALL VALVE.
9. FOR ALL NEW GLYCOL HOT WATER RETURN PIPING THE MC SHALL INSTALL A TWO (2) BALL VALVES & IN BETWEEN THEM INSTALL A CHECK VALVE & BALANCING VALVE (CIRCUIT SETTER).
10. MC SHALL HAVE GC CORE DRILL ALL WALL & CEILING/FLOOR PENETRATIONS SHOWN ON THE PLANS WITH MC PRESENT. MC TO RUN NEW PIPING THROUGH OPENINGS & MC TO PROVIDE FIRESTOPPING AS PER PROJECT MANUAL REQUIREMENTS.
11. REFER TO DEMOLITION PLANS FOR EXISTING PIPING SIZES & REFER TO THIS PLAN FOR NEW PIPING SIZES.
12. GLYCOL PIPING IS 40% PROPYLENE GLYCOL IN COMPOSITION.

GENERAL NEW WORK NOTES:

1. FOR AREAS WHERE THERE IS NO GC WORK FOR A NEW DROP CEILING GRID AND TILES, THE MC SHALL BE ENTIRELY RESPONSIBLE TO REMOVE ANY EXISTING DROP CEILING TILES REQUIRED TO PERFORM WORK & TO RE-INSTALL SAME EXISTING DROP CEILING TILES WHEN WORK IS FINISHED. ANY TILES DAMAGED BY MC SHALL BE THE MC'S RESPONSIBILITY TO FURNISH & INSTALL AN EQUIVALENT AT THE MC'S OWN EXPENSE. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS WHERE GC IS TO INSTALL NEW DROP CEILING GRID.
2. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY DEMOLITION WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT.
3. REFER TO SCHEDULES FOR ALL REFRIGERANT LINE SET PIPING SIZES
4. REFER TO SCHEDULES FOR VRF SYSTEM INDOOR UNIT PERFORMANCES.

CONDENSATE DRAIN LINE GENERAL INSTALLATION NOTES:

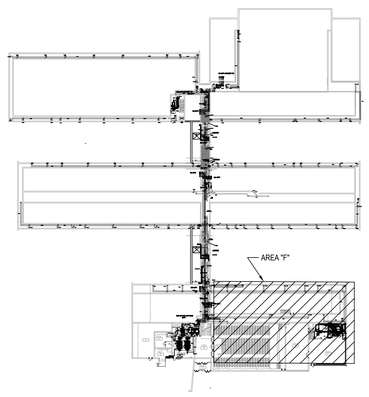
1. MC SHALL RUN NEW CONDENSATE DRAIN LINES AS SHOWN VIA 1/8-TH INCH GRAVITY PITCH AS SHOWN & RUN TO CORNER AS SHOWN THEN RUN DOWN TO SIX (6") INCHES ABOVE FINISHED FLOOR. MC TO THEN REFER TO KEY PLAN NOTES FOR DETAILS OF CORE DRILLING BY GC WITH MC PRESENT.
2. MC TO THEN FURNISH & INSTALL A STERLING THREE-SIDED 16-GAUGE PIPING COVER TO CONCEAL CONDENSATE DRAIN LINE(S) RUNNING DOWN IN CORNER. COLOR TO BE SELECTED BY ARCHITECT OF RECORD.

REFRIGERANT LINE SET PIPING GENERAL INSTALLATION NOTES:

1. OPEN CEILING SPACES—MC SHALL RUN NEW REFRIGERANT PIPING LINE SETS TIGHT TO EXISTING STRUCTURE (BEAMS/BAR JOISTS) ALL THE WAY TO WALLS OF SPACES BEFORE CHANGING DIRECTIONS AS SHOWN ON PLANS.
2. OPEN CEILING SPACES—REFRIGERANT PIPING SHALL HAVE REQUIRED INSULATION WITH THICKNESS & R-VALUES AS PER SPECIFICATIONS. MC TO ALSO FURNISH & INSTALL PVC JACKETING OVER PIPING INSULATION WHICH SHALL BE A COLOR SELECTED BY ARCHITECT OF RECORD PRIOR TO RELEASE OF SUBMITTAL.

ADDITIONAL COORDINATION NOTES:

PLEASE SEE DEMOLITION PLANS & NEW DUCTWORK PLANS FOR ALL BAR JOISTS, BEAMS, PROPOSED/EXISTING LIGHTING FIXTURES, & DROP CEILING GRIDS ETC. THESE HAVE BEEN LEFT OFF VRF SYSTEM NEW WORK PLANS FOR CLARITY PURPOSES.



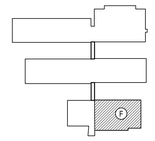
MILLBROOK MIDDLE SCHOOL-BASEMENT LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "F"-BASEMENT VRF SYSTEM PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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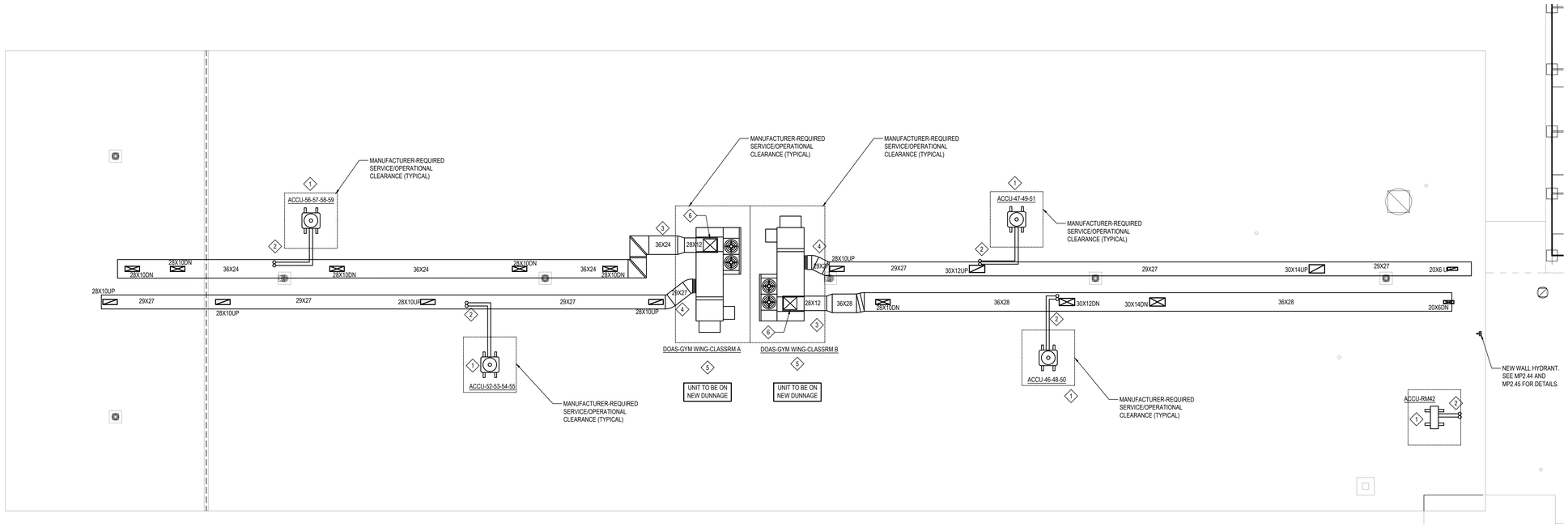
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-BASEMENT VRF SYSTEM PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.37



ROOF LEVEL -MIDDLE SCHOOL- AREA "A" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING:
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC RUN DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
4. MC RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN.
   - A) NEW UNIT TO BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
6. NEW DOAS UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X12 HORIZONTAL SUPPLY DUCTWORK UNDER DOAS UNIT & OUT THROUGH UNDERNEATH NEW DUNNAGE. MC SHALL THEN TRANSITION 28X12 SUPPLY DUCT TO 36X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

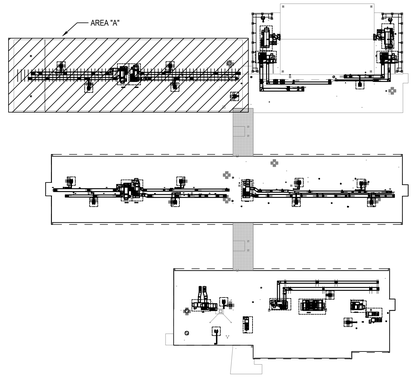
1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWINGS) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.



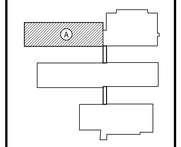
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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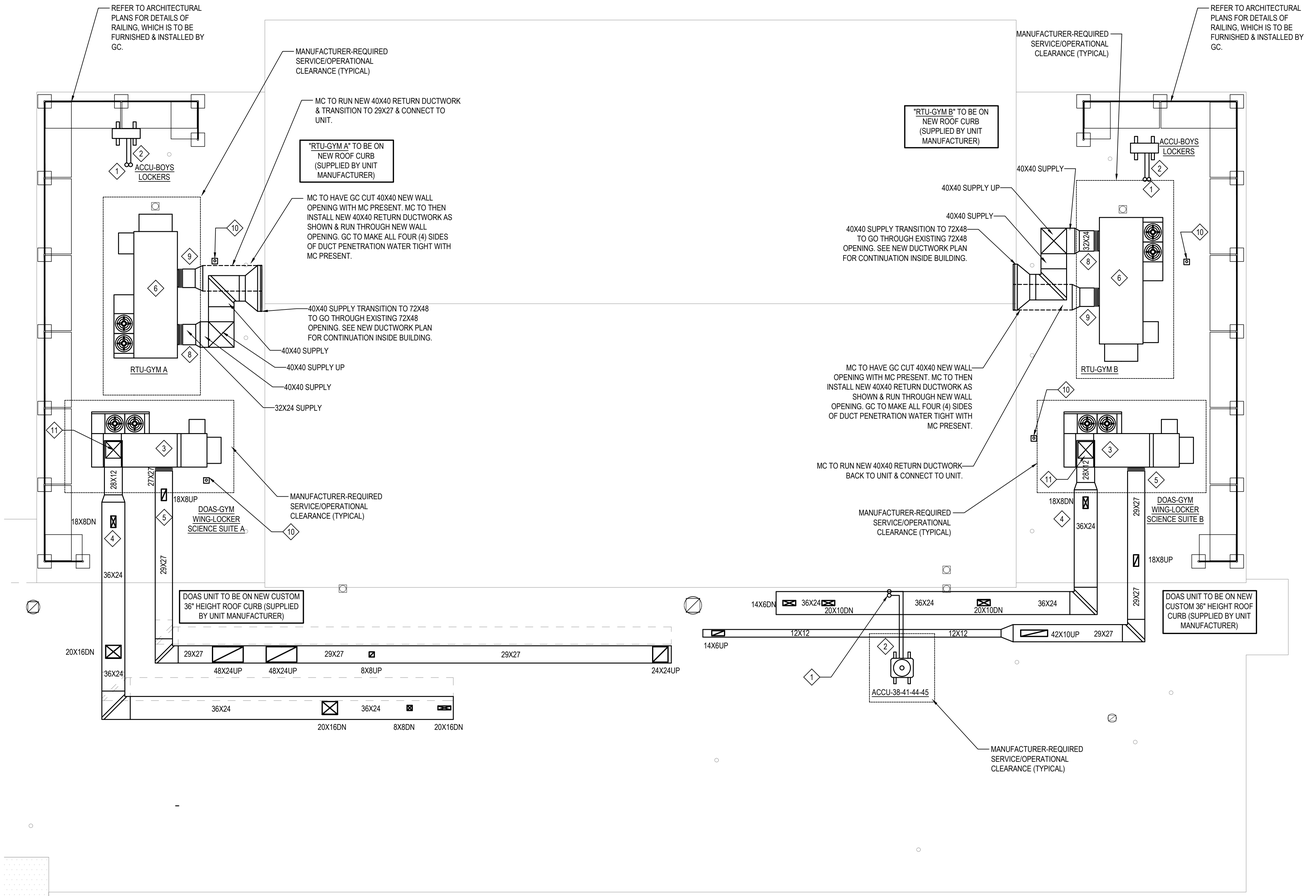
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-ROOF LEVEL MECH. NEW WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.38



ROOF LEVEL -MIDDLE SCHOOL- AREA "B" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "B" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING:
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
4. TO RUN NEW ROOFTOP DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS. REFER TO PLANS FOR SUPPLY DUCT TRUNK SIZE(S).
5. MC TO RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS. REFER TO PLANS FOR SUPPLY DUCT TRUNK SIZE(S).
6. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW STANDARD HEIGHT ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR ROOFTOP UNIT BEING SUBMITTED.
7. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR ROOFTOP UNIT BEING SUBMITTED.
8. MC RUN NEW SUPPLY DUCTWORK ON ROOFTOP AS SHOWN, REFER TO NOTES ON PLAN FOR FURTHER INFORMATION.
9. MC RUN NEW RETURN DUCTWORK ON ROOFTOP AS SHOWN, REFER TO NOTES ON PLAN FOR FURTHER INFORMATION.
10. MC SHALL HAVE GC CUT 1'0 OPENING IN ROOF WITH MC PRESENT. MC TO THEN FURNISH SMALL PIPE PORTAL SYSTEM/CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN NEW 3/8'0 CONDENSATE DRAIN PIPING LINE THROUGH PIPE PORTAL SYSTEM & TERMINATE WITH A 1800 DEGREE GOOSENECK. MC SHALL USE COPPER PIPING FOR CONDENSATE DRAIN LINE.
11. NEW DOAS UNIT SHALL BE ON CUSTOM 36" HEIGHT ROOF CURB THAT IS TO BE SUPPLIED BY APPROVED UNIT MANUFACTURER. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X24 HORIZONTAL SUPPLY DUCTWORK THROUGH SIDE OF NEW 36" HEIGHT CUSTOM ROOF CURB. MC SHALL THEN TRANSITION 28X24 SUPPLY DUCT TO 36X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

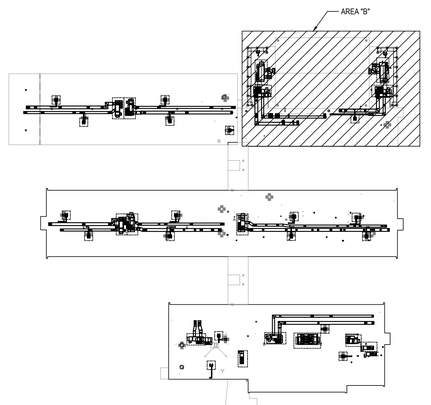
1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWINGS) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.



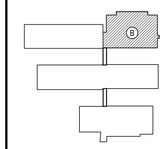
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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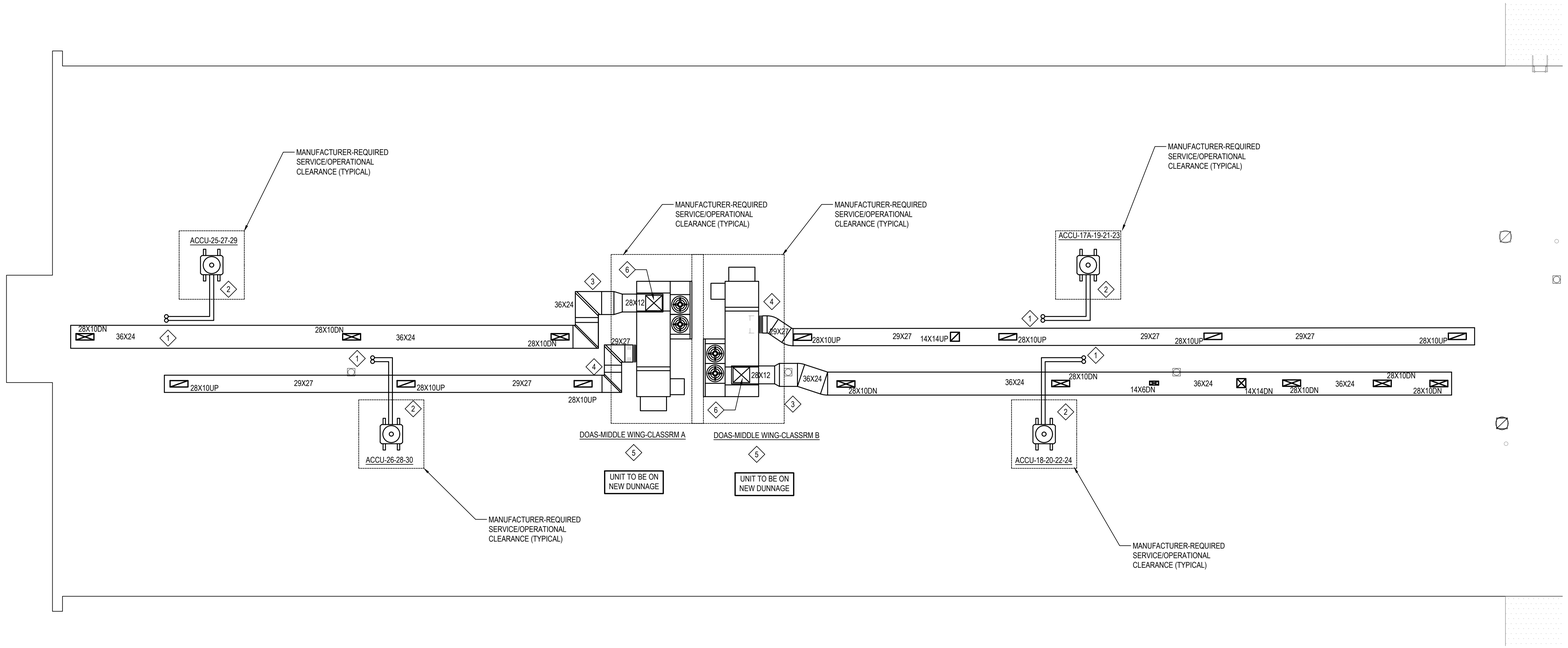
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: AREA "B"-ROOF LEVEL MECH. NEW WORK PLAN

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M2.39



ROOF LEVEL -MIDDLE SCHOOL- AREA "C" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "C" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING:
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC RUN DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
4. MC RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN.
   - A) UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
6. NEW DOAS UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X12 HORIZONTAL SUPPLY DUCTWORK UNDER DOAS UNIT & OUT THROUGH UNDERNEATH NEW DUNNAGE. MC SHALL THEN TRANSITION 28X12 SUPPLY DUCT TO 36X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

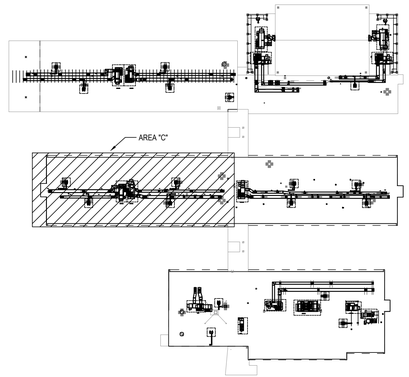
1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWINGS) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.



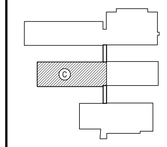
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN — NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

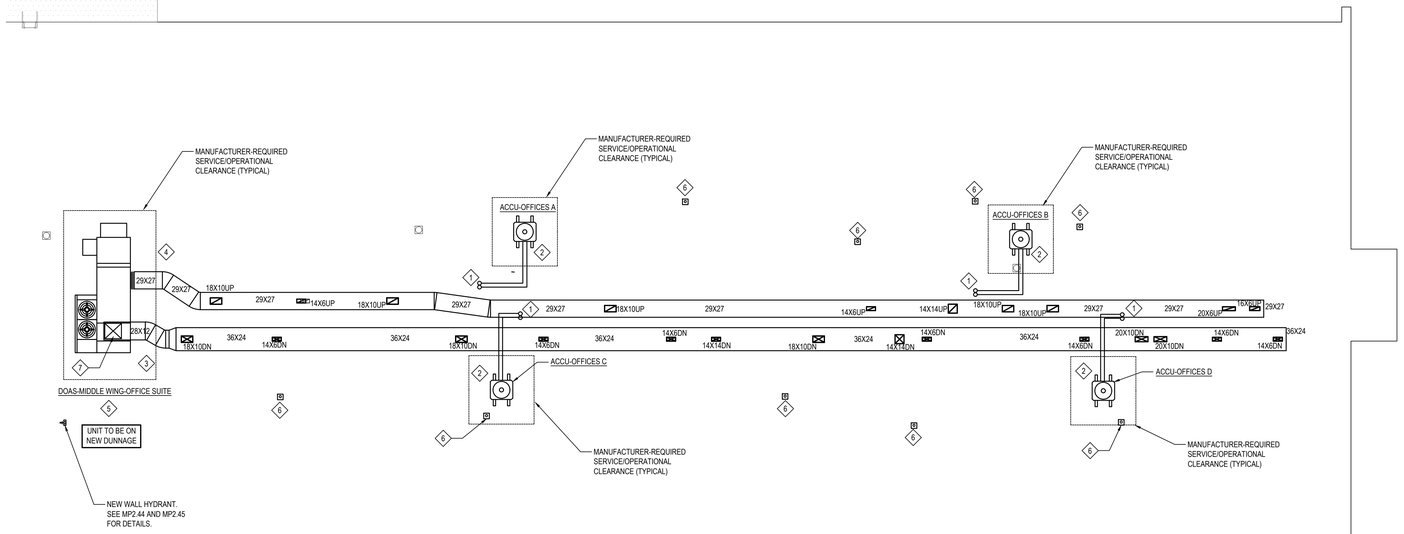
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SED No: 13-22-01-04-0-008-017
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE: AREA "C"-ROOF LEVEL MECH. NEW WORK PLAN

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M2.40



ROOF LEVEL -MIDDLE SCHOOL- AREA "D" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "D" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING:
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC RUN DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
4. MC RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. .
   - A) UNIT SHALL BE ON NEW DUNNAGE WHICH SHALL BE FURNISHED & INSTALL BY GC.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
6. MC SHALL HAVE GC CUT 1'ØØ OPENING IN ROOF WITH MC PRESENT. MC TO THEN FURNISH SMALL PIPE PORTAL SYSTEM/CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN NEW 3/8"Ø CONDENSATE DRAIN PIPING LINE THROUGH PIPE PORTAL SYSTEM & TERMINATE WITH A 180Ø DEGREE GOOSENECK. MC SHALL USE COPPER PIPING FOR CONDENSATE DRAIN LINE.
7. NEW DOAS UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X12 HORIZONTAL SUPPLY DUCTWORK UNDER DOAS UNIT & OUT THROUGH UNDERNEATH NEW DUNNAGE. MC SHALL THEN TRANSITION 28X12 SUPPLY DUCT TO 36X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

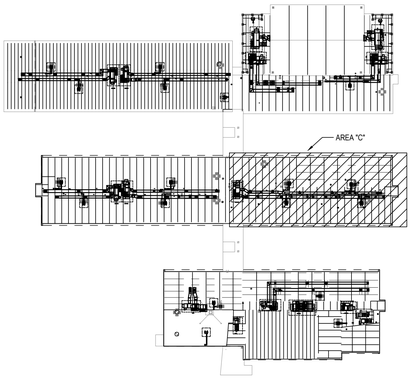
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2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWINGS) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.



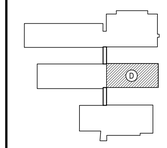
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
AREA "D"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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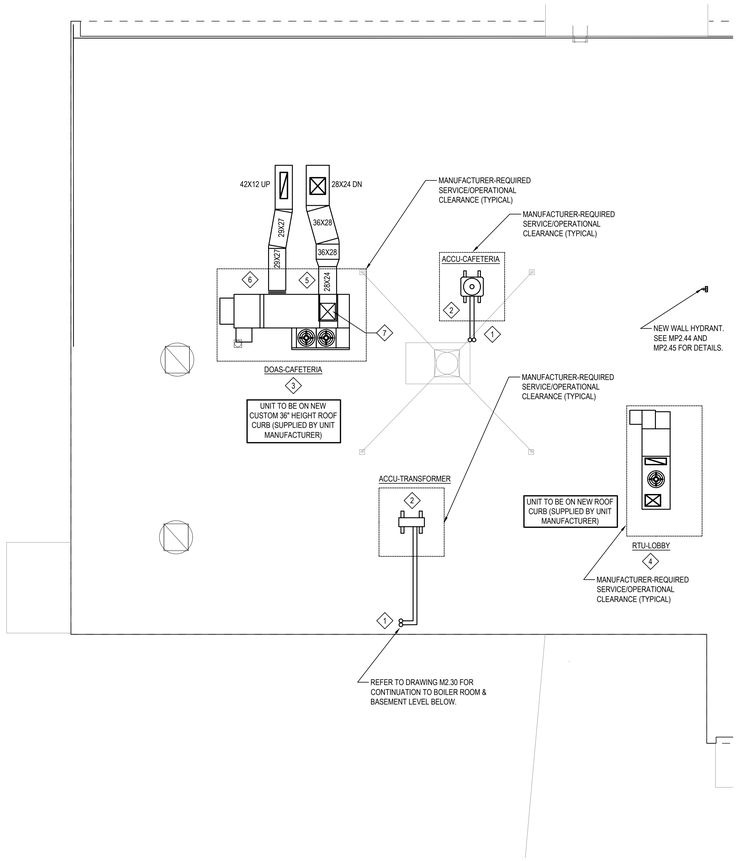
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "D"-ROOF LEVEL MECH. NEW WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.41



ROOF LEVEL -MIDDLE SCHOOL- AREA "E" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

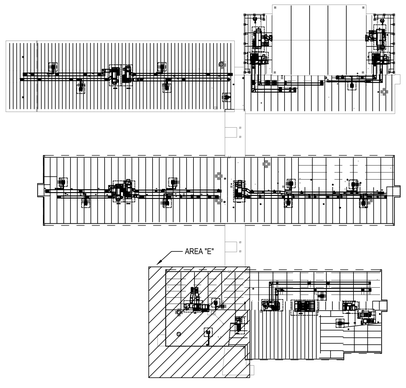
1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWING5) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "E" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING.
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. MC SHALL FURNISH NEW 36" HEIGHT ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED DOAS UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
   - D) MC SHALL RUN SUPPLY DUCTWORK ON ROOF AS SHOWN ON PLANS. SUPPLY DUCTWORK SHALL RUN DOWN WITHIN ROOF CURB & COME OUT FROM SIDE OF NEW 36" HEIGHT ROOF CURB. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
   - E) MC SHALL HAVE GC CUT 28X24 SUPPLY AIR DUCT OPENING IN ROOF WITH MC PRESENT. ME TO THEN RUN NEW SUPPLY DUCT AT 28X24 SIZE DOWN TO CEILING PLENUM OF FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - F) MC SHALL RUN NEW EXHAUST/RETURN DUCTWORK OUT OFF OF SIDE OF NEW ROOFTOP UNIT AS SHOWN. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
   - G) MC SHALL HAVE GC CUT 42X12 RETURN AIR DUCT OPENING IN ROOF WITH MC PRESENT. ME TO THEN RUN NEW RETURN DUCT AT 42X10 SIZE DOWN TO CEILING PLENUM OF FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - H) REFER TO PLANS FOR UNIT TAG.
4. MC SHALL FURNISH & INSTALL NEW ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH STANDARD HEIGHT NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR ROOFTOP UNIT BEING SUBMITTED.
   - D) MC SHALL HAVE GC CUT 24X16 SUPPLY AIR DUCT OPENING IN ROOF WITHIN ROOF CURB WITH MC PRESENT. ME TO THEN RUN NEW SUPPLY DUCT AT 24X16 SIZE DOWN TO CEILING PLENUM OF FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - E) MC SHALL HAVE GC CUT 33X1O RETURN AIR DUCT OPENING IN ROOF WITHIN ROOF CURB WITH MC PRESENT. ME TO THEN RUN NEW RETURN DUCT AT 33X10 SIZE DOWN TO CEILING PLENUM OF FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - F) REFER TO PLANS FOR UNIT TAG.
5. MC RUN DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
6. MC RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
7. NEW DOAS UNIT SHALL BE ON CUSTOM 35" HEIGHT ROOF CURB THAT IS TO BE SUPPLIED BY APPROVED UNIT MANUFACTURER. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X24 HORIZONTAL SUPPLY DUCTWORK THROUGH SIDE OF NEW 36" HEIGHT CUSTOM ROOF CURB. MC SHALL THEN TRANSITION 28X24 SUPPLY DUCT TO 36X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.



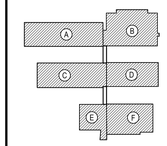
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "E"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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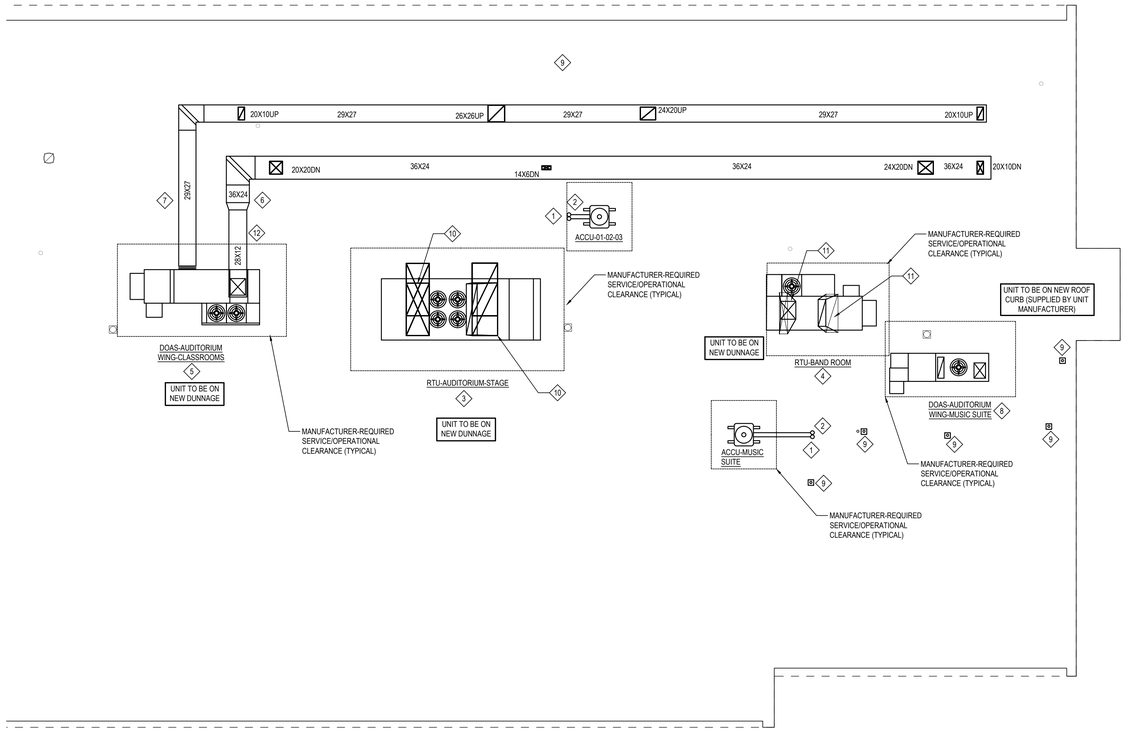
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "E"-ROOF LEVEL MECH. NEW WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.42



ROOF LEVEL -MIDDLE SCHOOL- AREA "F" - NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/8" = 1'-0"

ROOF DUCTWORK PENETRATION NOTES:

MC SHALL HAVE GC CUT DUCTWORK PENETRATION OPENINGS TO SIZES STATED ON PLANS WITH MC PRESENT. GC TO THEN FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN DUCTWORK DOWN INTO BUILDING. REFER TO INTERIOR NEW DUCTWORK PLANS FOR CONTINUATION.

ROOF EQUIPMENT GENERAL INSTALLATION NOTES:

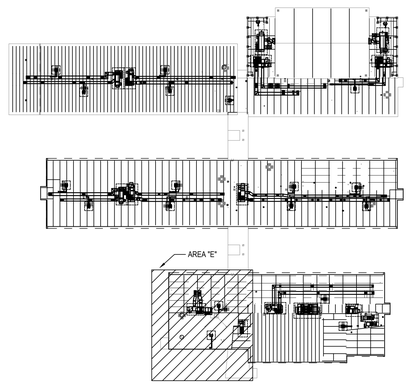
1. MC SHALL COORDINATE ALL NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC WORK WITH PROJECT GC.
2. MC SHALL PROVIDE NEW ROOFTOP EQUIPMENT & DUCTWORK SHOP DRAWING PRIOR TO START OF ANY NEW WORK FOR REVIEW/APPROVAL PROCESS.
3. FOR DUCTWORK SHOWN, MC SHALL INSTALL ROOFTOP DUCT SUPPORTS (AS PER DETAILS DRAWINGS) EVERY 3'-0". IF APPROVED MANUFACTURER STATES IT CAN BE INSTALLED AT LARGER SEPARATION, MC SHALL PROVIDE DOCUMENTATION FROM APPROVED DUCTWORK SUPPORT MANUFACTURER ON THEIR COMPANY LETTERHEAD.
4. FOR ALL NEW ROOFTOP UNITS, MC TO INSTALL P-TRAPS TO EXACT REQUIREMENTS OF APPROVED ROOFTOP UNIT MANUFACTURERS.

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "F" - NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC TO RUN UP REFRIGERANT LINE SET PIPING UP THROUGH ROOF WITH GC PRESENT. GC TO CUT OPENING IN ROOF FOR PIPING LINE SET WITH MC PRESENT. MC TO FURNISH NEW PIPE PORTAL SYSTEM & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN REFRIGERANT LINE SET PIPING THROUGH PIPE PORTAL. NEW CONDENSING UNIT SHALL BE INSTALLED ON THY CURB SUPPORTS WHICH MC SHALL BE RESPONSIBLE TO FURNISH & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL OUTDOOR UNIT ON SUPPORTS WITH THE FOLLOWING:
   - A) THY CURBS TO BE PROVIDED TO MC BY APPROVED VRF SYSTEM MANUFACTURER.
   - B) PROVIDE VIBRATION ISOLATION FOR NEW OUTDOOR UNIT ON SUPPORTS
   - C) MC SHALL USE TIE DOWN CLIPS TO FASTEN UNIT ON TO SUPPORTS & INSTALL IN ACCORDANCE WITH APPROVED VRF SYSTEM MANUFACTURER'S REQUIREMENTS.
2. MC SHALL RUN REFRIGERANT LINE SET PIPING ON ROOF WITH MIRO-INDUSTRY ROLLER SUPPORT PIPING SUPPORTS ON ROOF TO NEW OUTDOOR CONDENSING UNIT. REFER TO PLANS FOR CONDENSING UNIT TAG.
3. MC SHALL FURNISH & INSTALL NEW AUDITORIUM ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW CUSTOM ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) CUSTOM ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER SHALL HAVE EXISTING ROOF SUPPLY & RETURN AIR OPENINGS WHICH LINE UP WITH EXISTING SUPPLY & RETURN AIR OPENINGS. EXISTING SUPPLY AIR OPENING IS 80X20. EXISTING RETURN AIR OPENING IS 60X36. ALL OPENING SHALL BE MEASURED AND VERIFIED IN THE FIELD AFTER EXISTING UNIT HAS BEEN REMOVED OFF OF EXISTING ROOF CURB. EXISTING ROOF CURB TO BE REMOVED SINCE GC IS REPLACING ENTIRE ROOF AND METAL DECKING.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR ROOFTOP UNIT BEING SUBMITTED.
4. MC SHALL FURNISH & INSTALL NEW BAND ROOM ROOFTOP UNIT AS SHOWN. MC SHALL FURNISH NEW CUSTOM ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) CUSTOM ROOF CURB SHALL BE FROM APPROVED ROOFTOP UNIT MANUFACTURER SHALL HAVE EXISTING ROOF SUPPLY & RETURN AIR OPENINGS WHICH LINE UP WITH EXISTING SUPPLY & RETURN AIR OPENINGS. EXISTING SUPPLY AIR OPENING IS 64X12. EXISTING RETURN AIR OPENING IS 60X18. ALL OPENING SHALL BE MEASURED AND VERIFIED IN THE FIELD AFTER EXISTING UNIT HAS BEEN REMOVED OFF OF EXISTING ROOF CURB. EXISTING ROOF CURB TO BE REMOVED SINCE GC IS REPLACING ENTIRE ROOF AND METAL DECKING.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR ROOFTOP UNIT BEING SUBMITTED.
5. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN.
   - A) UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
6. MC RUN DOAS UNIT SUPPLY DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE SUPPLY DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
7. MC RUN DOAS UNIT EXHAUST DUCTWORK TRUNK ON ROOF AS SHOWN & MAKE EXHAUST DUCT DROPS UNDER TRUNK AS SHOWN. MC SHALL HAVE GC MAKE OPENINGS IN ROOF TO SIZES NOTED ON PLANS WITH MC PRESENT. MC TO THEN FURNISH DUCT CURB FOR EACH PENETRATION TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN INSTALL DUCT DROPS.
8. MC SHALL FURNISH & INSTALL NEW DOAS UNIT AS SHOWN. MC SHALL FURNISH NEW ROOF CURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT.
   - A) ROOF CURB SHALL BE FROM APPROVED DOAS UNIT MANUFACTURER.
   - B) MC TO COORDINATE WORK WITH GC & EC.
   - C) MANUFACTURER-REQUIRED SERVICE/PERFORMANCE CLEARANCE SHOWN SHALL BE PROVIDED IN SHOP DRAWINGS FOR DOAS UNIT BEING SUBMITTED.
   - D) MC SHALL HAVE GC CUT 24X16 SUPPLY AIR DUCT OPENING IN ROOF WITHIN ROOF CURB WITH MC PRESENT. ME TO THEN RUN NEW SUPPLY DUCT AT DOWN TO FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - E) MC SHALL HAVE GC CUT 32X10 RETURN AIR DUCT OPENING IN ROOF WITHIN ROOF CURB WITH MC PRESENT. ME TO THEN RUN NEW RETURN DUCT DOWN TO FIRST FLOOR. SEE FIRST FLOOR DRAWING FOR CONTINUATION.
   - F) REFER TO PLANS FOR UNIT TAG.
9. MC SHALL HAVE GC CUT 1"Ø OPENING IN ROOF WITH MC PRESENT. MC TO THEN FURNISH SMALL PIPE PORTAL SYSTEMCURB & PROVIDE TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. MC TO THEN RUN NEW 3/8"Ø CONDENSATE DRAIN PIPING LINE THROUGH PIPE PORTAL SYSTEM & TERMINATE WITH A 1800 DEGREE GOOSENECK. MC SHALL USE COPPER PIPING FOR CONDENSATE DRAIN LINE.
10. FOR NEW ROOFTOP UNIT (RTU-AUDITORIUM-STAGE), NEW UNIT TO BE INSTALLED ON NEW DUNNAGE. NEW DUNNAGE TO BE FURNISHED & INSTALLED BY GC.
    - A) MC SHALL CONNECT NEW 82X36 BOTTOM SUPPLY DUCTWORK CONNECTION & CONNECT TO NEW 82X36 ROOF OPENING FOR SUPPLY DUCTWORK. MC SHALL HAVE GC CUT NEW 82X36 OPENING IN ROOF WITH MC PRESENT. MC FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
    - B) MC SHALL CONNECT NEW 80X18 BOTTOM RETURN DUCTWORK CONNECTION & DESIGN AN 80X18 TO 83X38 TRANSITION DUCT BELOW ROOFTOP UNIT & CONNECT TO NEW 82X38 ROOF OPENING FOR RETURN DUCTWORK. MC SHALL HAVE GC CUT NEW 82X38 OPENING IN ROOF WITH MC PRESENT. MC FURNISH DUCT CURB TO GC FOR GC TO INSTALL & FLASH WITH MC PRESENT. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
    - C) REFER TO DETAILS DRAWINGS FOR FURTHER INFORMATION
11. FOR NEW ROOFTOP UNIT (RTU-BAND ROOM), NEW UNIT TO BE INSTALLED ON NEW DUNNAGE. NEW DUNNAGE TO BE FURNISHED & INSTALLED BY GC.
    - A) MC SHALL CONNECT NEW 28X24 BOTTOM SUPPLY DUCTWORK CONNECTION & DESIGN A 28X24 TO 64X12 TRANSITION DUCT BELOW ROOFTOP UNIT & CONNECT TO EXISTING 64X12 ROOF OPENING FOR SUPPLY DUCTWORK. MC SHALL RE-USE EXISTING 64X12 SUPPLY DUCT OPENING. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
    - B) MC SHALL CONNECT NEW 42X12 BOTTOM RETURN DUCTWORK CONNECTION & DESIGN A 42X12 TO 60X18 TRANSITION DUCT BELOW ROOFTOP UNIT & CONNECT TO EXISTING 64X18 ROOF OPENING FOR RETURN DUCTWORK. MC SHALL RE-USE EXISTING 60X18 RETURN DUCT OPENING. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.
    - C) REFER TO DETAILS DRAWINGS FOR FURTHER INFORMATION
12. NEW DOAS UNIT SHALL BE ON NEW DUNNAGE. NEW DUNNAGE SHALL BE FURNISHED & INSTALLED BY GC. FOR NEW DOAS UNIT, MC SHALL CONNECT A NEW 28X24 SUPPLY DUCT ON BOTTOM SIDE OF DOAS UNIT. MC SHALL THEN RUN A NEW 28X12 HORIZONTAL SUPPLY DUCTWORK UNDER DOAS UNIT & OUT THROUGH UNDERNEATH NEW DUNNAGE. MC SHALL THEN TRANSITION 28X12 SUPPLY DUCT TO 32X24 AS SHOWN & RUN ON ROOFTOP. PROVIDE FLEXIBLE DUCT CONNECTION TO UNIT.

GENERAL DEMOLITION NOTES:

1. MC SHALL VERIFY IN THE FIELD (BEFORE THE START OF ANY NEW WORK) ALL EXISTING STRUCTURES, DIMENSIONS, SPACING, CLEARANCES PRESENT FOR LOCATION WHERE PROPOSED ROOFTOP EQUIPMENT IS TO BE INSTALLED.
2. MC SHALL BE REQUIRED TO COORDINATE ALL PROPOSED EQUIPMENT CALLED FOR INSTALLATION WITH PROJECT GC PRESENT.
3. ALL EXISTING ROOFTOP EQUIPMENT THAT IS TO REMAIN HAS BEEN IDENTIFIED ON ROOFTOP DEMOLITION PLANS. REFER TO ROOFTOP DEMOLITION PLANS FOR FURTHER DETAILS.
4. ALL NEW DUCTWORK SIZES ARE NOTED ON PLANS.



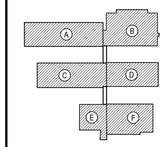
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "F"-ROOF LEVEL MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No:	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "F"-ROOF LEVEL MECH. NEW WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

M2.43

DOAS UNIT SCHEDULES (BASIS: VALENT) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

DOAS RTU SCHEDULE (VALENT AS STD.)

						SUPPLY FAN					EXHAUST FAN					ELECTRICAL		
TAG	QTY	Model	WEIGHT (LBS)	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	ESP (IN WG)	MOTOR HP	FAN RPM	BRAKE HP	EXHAUST AIRFLOW	ESP (IN WG)	MOTOR HP	FAN RPM	BRAKE HP	VOLT/HZ/PH	UNIT MCA (A)	UNIT MOP (A)
DOAS-AUDITORIUM WING-CAFE	1	VXE-112-36D-10I-2-B2	3,318	3,070	3,070	1.0	3.0	1839	2.13	3,070	1.0	3.0	1764	2.43	480/60/3	34.1	50
DOAS-AUDITORIUM WING-CLASSRM	1	VXE-112-36D-7I-2-B2	3,124	2,175	2,175	1.0	2.0	1528	1.19	2,175	1.0	2.0	1595	1.35	480/60/3	22.4	30
DOAS-AUDITORIUM WING-MUSIC STE	1	VXE-12-30D-3J-2-A2	1,366	705	705	1.0	1.0	1438	0.3	705	1.0	1.0	1235	0.28	480/60/3	10.6	15
DOAS-GYM WING-CLASSRM-A	1	VXE-112-41D-15I-2-B2	3,397	3,820	3,820	1.0	5.0	2152	3.43	3,820	1.0	5.0	2122	3.35	480/60/3	54.0	60
DOAS-GYM WING-CLASSRM-B	1	VXE-112-41D-15I-2-B2	3,397	4,255	4,255	1.0	5.0	2324	4.33	4,255	1.0	5.0	2285	4.18	480/60/3	54.0	60
DOAS-GYM WING-LOCKER SCI STE-A	1	VXE-112-41D-12.5I-2-B2	3,353	3,695	3,695	1.0	5.0	2106	3.21	3,695	1.0	5.0	2075	3.14	480/60/3	40.9	50
DOAS-GYM WING-LOCKER SCI STE-B	1	VXE-112-36D-10I-2-B2	3,318	3,073	3,073	1.0	3.0	1841	2.13	3,073	1.0	3.0	1913	2.43	480/60/3	34.1	50
DOAS-MIDDLE WING-CLASSRM-A	1	VXE-112-36D-10I-2-B2	3,318	2,795	2,795	1.0	3.0	1744	1.8	2,795	1.0	3.0	1811	2.05	480/60/3	34.1	50
DOAS-MIDDLE WING-CLASSRM-B	1	VXE-112-41D-10I-2-B2	3,287	3,460	3,460	1.0	5.0	2007	2.78	3,460	1.0	5.0	1987	2.76	480/60/3	38.3	50
DOAS-MIDDLE WING-OFFICE SUITE	1	VXE-112-30D-5I-2-B2	3,067	1,355	1,355	1.0	1.5	1275	0.63	1,355	1.0	1.5	1362	0.74	480/60/3	18.3	25

	SUMMER ENERGY RECOVERY PERFORMANCE				WINTER ENERGY RECOVERY PERFORMANCE				HEATING PERFORMANCE									COOLING PERFORMANCE									
TAG	OUTSIDE AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	ASHRAE 90.1 Enthalpy Recovery Ratio	OUTSIDE AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	ASHRAE 90.1 Enthalpy Recovery Ratio	COIL ENTERING DB (°F)	COIL LEAVING DB (°F)	TOTAL CAPACITY (MBH)	ENTERING FLUID TEMP (°F)	LEAVING FLUID TEMP (°F)	FLUID FLOW (GPM)	FLUID PD (ft wg)	FLUID TYPE	FLUID CONC. (%)	COIL ENTERING DB/WB (°F)	COIL LEAVING DB/WB (°F)	NOMINAL TONNAGE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSOR TYPE	REFRIGERANT	ISMRE2	HOT GAS REHEAT CAPACITY (MBH)	REHEAT COIL LEAVING DB (°F)
DOAS-AUDITORIUM WING-CAFE	89.0/75.4	75.0/62.5	80.0/67.8	62.73	-1.0/-2.6	72.0/55.8	43.9/38.0	60.14	43.9	89.2	150.7	170	140	10.8	2.1	Propylene	40	80.0/67.8	54.3/54.3	10.0	127.2	82.8	INVERTER	R-454B	8.1	74.6	76.9
DOAS-AUDITORIUM WING-CLASSRM	89.0/75.4	75.0/62.5	78.9/66.8	70.24	-1.0/-2.6	72.0/55.8	50.0/42.2	68.5	50.0	98.2	113.5	170	140	8.1	1.2	Propylene	40	78.9/66.8	53.5/53.5	7.0	86.8	58.0	INVERTER	R-454B	8.1	59.4	79.0
DOAS-AUDITORIUM WING-MUSIC STE	89.0/75.4	75.0/62.5	77.4/65.5	79.69	-1.0/-2.6	72.0/55.8	58.9/47.7	80.24	58.9	115.6	43.3	170	140	3.1	0.8	Propylene	40	77.4/65.5	45.2/45.1	3.0	39.4	23.9	INVERTER	R-454B	7.6	25.4	78.9
DOAS-GYM WING-CLASSRM-A	89.0/75.4	75.0/62.5	80.1/68.0	61.82	-1.0/-2.6	72.0/55.8	43.1/37.5	59.16	43.1	90.7	196.7	170	140	14.1	3.4	Propylene	40	80.1/68.0	51.1/51.0	15.0	191.3	116.2	INVERTER	R-454B	6.1	104.4	76.6
DOAS-GYM WING-CLASSRM-B	89.0/75.4	75.0/62.5	80.5/68.4	58.83	-1.0/-2.6	72.0/55.8	40.9/35.8	56.02	40.9	91.5	233.0	170	140	16.7	1.4	Propylene	40	80.5/68.4	53.1/53.1	15.0	197.0	122.2	INVERTER	R-454B	6.1	108.0	76.8
DOAS-GYM WING-LOCKER SCI STE-A	89.0/75.4	75.0/62.5	80.0/67.8	62.68	-1.0/-2.6	72.0/55.8	43.8/37.9	60.08	43.8	91.7	191.6	170	140	13.7	3.3	Propylene	40	80.0/67.8	54.7/54.7	12.5	149.0	98.0	INVERTER	R-454B	7.0	89.9	77.4
DOAS-GYM WING-LOCKER SCI STE-B	89.0/75.4	75.0/62.5	80.0/67.8	62.71	-1.0/-2.6	72.0/55.8	43.8/38.0	60.11	43.8	89.2	150.8	170	140	10.8	2.1	Propylene	40	80.0/67.8	54.3/54.3	10.0	127.2	82.8	INVERTER	R-454B	8.1	74.7	76.9
DOAS-MIDDLE WING-CLASSRM-A	89.0/75.4	75.0/62.5	79.6/67.5	65	-1.0/-2.6	72.0/55.8	45.7/39.3	62.6	45.7	91.8	139.5	170	140	10.0	1.8	Propylene	40	79.6/67.5	52.7/52.7	10.0	124.3	79.0	INVERTER	R-454B	8.1	71.5	76.6
DOAS-MIDDLE WING-CLASSRM-B	89.0/75.4	75.0/62.5	79.7/67.6	64.31	-1.0/-2.6	72.0/55.8	45.1/38.9	61.83	45.1	94	183.1	170	140	13.1	3.0	Propylene	40	79.7/67.6	55.5/55.5	10.0	129.3	88.1	INVERTER	R-454B	8.1	79.1	76.8
DOAS-MIDDLE WING-OFFICE SUITE	89.0/75.4	75.0/62.5	78.6/66.6	71.64	-1.0/-2.6	72.0/55.8	51.3/43.1	70.24	51.3	90.2	57.1	170	140	4.1	0.1	Propylene	40	78.6/66.6	49.4/49.3	5.0	67.5	41.7	INVERTER	R-454B	8.8	43.4	79.2

NOTES:

Painted exterior with 2,500 hr. salt spray rating.
Double wall 2" R16 injected foam insulated cabinet.
Single condenser fan shall not exceed a sound power level of 75 LwA.
Compressors mounted on a shelf behind an insulated door for minimized radiated and transmitted sound.
Direct-drive fans with factory mounted VFDs.
Controller must have simplified access via a laptop to view and change unit operation, set points, alarm history & 1 week of trending data.
Enthalpy wheel must be sized for 100% of outdoor air volume at design conditions.
Lead EC motor on condenser fan.
Modulating Hot Gas Reheat micro-channel coil for dehumidification.

OPTIONS AND ACCESSORIES

Weatherhood: Downturned Hood
Frost Control: Modulating Wheel
Outdoor Air Filters - MERV 8
Exhaust Air Filters - MERV 8
Supply Filters - 2" Pleated MERV 13
Outdoor Air Dampers - Motorized Low Leakage
Recirc Dampers - Motorized Low Leakage
Painted Exterior - RAL7024
Microprocessor Controls
Supply Fan VFD Control - Constant Volume-Adj. Setpoint
Exhaust Fan VFD Control - 100% OA -No Recirculation
OA/RA Damper Controls - Constant Position-Adj. Setpoint
Economizer Mode - Temp./Enthalpy
OA RH Sensor
Wheel Control - Modulating
Network Protocol: BACNetMSTP
Dirty Filter Switch: Outdoor, Exhaust and Supply
Rotation Sensor
Phase and Brown Out Protection
120v NEMA 3R Outlet (Factory mounted and wired)
Unit Disconnect - Mounted By Factory
Condensate Overflow Switch
Economizer Fault Detection Diagnostics
Energy Wheel Warranty - 5 Yrs Less Motor
Unit Warranty: 18 Months Standard
Extended Compressor Warranty: 5 Yrs

GENERAL SCHEDULE NOTES (APPLICABLE TO EACH UNIT IN EACH SCHEDULE):
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
5. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
6. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
7. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
8. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
9. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.
10. PROVIDE STARTERS AND DISCONNECTS FOR MC TO GIVE TO EC FOR EC TO INSTALL & POWER.
11. FAN SHUT DOWN PROVIDED FOR ALL EQUIPMENT OVER 2000 CFM. REFER TO ELECTRICAL PLANS FOR ELECTRICAL EQUIPMENT SCHEDULE FOR UNITS REQURING FAN SHUT DOWN.

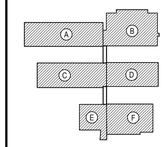
FOR NEW DOAS UNITS, REFER TO ALL NEW WORK ROOF PLANS FOR DESCRIPTION OF UNITS WHICH SHALL RECEIVE ONE (1) OF THE FOLLOWING OPTIONS:

1. CUSTOM 36" HEIGHT ROOF CURB FOR ROOFTOP EQUIPMENT.
2. NEW STEEL DUNNAGE WHICH IS TO BE FURNISHED & INSTALLED BY G.C.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

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www.BBSARCHITECTURE.com

SED No: 13-22-01-04-0-008-017
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.01

ROOFTOP UNITS WITH ENERGY RECOVERY SCHEDULES (BASIS: VALENT) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

ENERGY RECOVERY RTU SCHEDULE (VALENT AS STD.)

						SUPPLY FAN				EXHAUST FAN					EXHAUST FAN ECONOMIZER MODE			ELECTRICAL		
TAG	QTY	Model	WEIGHT (LBS)	SUPPLY AIRFLOW (CFM)	OUTDOOR AIRFLOW (CFM)	ESP (IN WG)	MOTOR HP	FAN RPM	BRAKE HP	EXHAUST AIRFLOW	ESP (IN WG)	MOTOR HP	FAN RPM	BRAKE HP	ECONOMIZER EXHAUST AIRFLOW (CFM)	ECONOMIZER FAN RPM	ECONOMIZER BRAKE HP	VOLT/HZ/PH	UNIT MCA (A)	UNIT MOP (A)
RTU-AUDITORIUM-STAGE	1	VXE-312-74D-25I-2-G2	7,565	11,200	4,875	1.0	(2) 5	1546	3.67	4,875	1.0	(2) 5	1378	0.9	11,200	2360	3.97	408/60/3	162.7	200
RTU-BAND ROOM	1	VXE-112-36D-7I-2-G2	3,019	2,800	1,105	1.0	3	1728	1.75	1,105	1.0	2	1168	0.46	2,800	1571	1.43	408/60/3	23.5	30
RTU-GYM-A	1	VXE-212-58D-15I-0-J2	4,847	7,200	1,890	1.0	(2) 3	2011	2.74	1,890	1.0	7.5	958	0.8	7,200	1827	6.55	408/60/3	58.0	80
RTU-GYM-B	1	VXE-212-58D-15I-0-J2	4,847	7,200	1,890	1.0	(2) 3	2011	2.74	1,890	1.0	7.5	958	0.8	7,200	1827	6.55	408/60/3	58.0	80
RTU-LOBBY	1	VXE-12-30D-3I-0-G2	1,370	1,600	550	1.0	1.5	2082	1.04	550	1.0	1	1297	0.22	1,600	1848	0.78	408/60/3	11.1	15

	SUMMER ENERGY RECOVERY PERFORMANCE				WINTER ENERGY RECOVERY PERFORMANCE				HEATING PERFORMANCE								COOLING PERFORMANCE								
TAG	OUTSIDE AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	ASHRAE 90.1 Enthalpy Recovery Ratio	OUTSIDE AIR DB/WB (°F)	RETURN AIR DB/WB (°F)	SUPPLY AIR DB/WB (°F)	ASHRAE 90.1 Enthalpy Recovery Ratio	COIL ENTERING DB (°F)	COIL LEAVING DB (°F)	TOTAL CAPACITY (MBH)	ENTERING FLUID TEMP (°F)	LEAVING FLUID TEMP (°F)	FLUID FLOW (GPM)	FLUID PD (ft wg)	FLUID TYPE	FLUID CONC. (%)	COIL ENTERING DB/WB (°F)	COIL LEAVING DB/WB (°F)	NOMINAL TONNAGE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	COMPRESSOR TYPE	REFRIGERANT	EER/IEER	HOT GAS REHEAT CAPACITY (MBH)	REHEAT COIL LEAVING DB (°F)
RTU-AUDITORIUM-STAGE	89.0/75.4	75.0/62.5	77.5/65.6	78.97	-1.0/-2.6	72.0/55.8	57.9/47.2	79.05	65.9	115.4	600.3	180	150	43.0	4.9	Propylene	40	76.1/63.9	55.1/55.1	25	288.7	248.4	INVERTER	R-454B	11.1/15.8	190.1	70.8
RTU-BAND ROOM	89.0/75.4	75.0/62.5	77.4/65.5	79.65	-1.0/-2.6	72.0/55.8	58.6/47.6	79.9	66.7	75.3	143.9	180	150	10.3	1.9	Propylene	40	76.0/63.7	53.2/53.2	7	85.4	67.5	INVERTER	R-454B	12.3/21.5	66.7	75.3
RTU-GYM-A	89.0/75.4	75.0/62.5	76.8/65.0	83.5	-1.0/-2.6	72.0/55.8	62.1/49.7	84.63	-	-	-	-	-	-	-	-	-	75.5/63.2	53.4/53.4	15	202.4	168.2	INVERTER	R-454B	11.4/19	194.7	78.4
RTU-GYM-B	89.0/75.4	75.0/62.5	76.8/65.0	83.5	-1.0/-2.6	72.0/55.8	62.1/49.7	84.63	-	-	-	-	-	-	-	-	-	75.5/63.2	53.4/53.4	15	202.4	168.2	INVERTER	R-454B	11.4/19	194.7	78.4
RTU-LOBBY	89.0/75.4	75.0/62.5	77.1/65.2	81.74	-1.0/-2.6	72.0/55.8	60.9/48.9	82.89	-	-	-	-	-	-	-	-	-	75.7/63.5	53.9/53.9	3	44.5	37.0	INVERTER	R-454B	17.1	39.3	76.6

NOTES:

Painted exterior with 2,500 hr. salt spray rating.
Double wall 2" R16 injected foam insulated cabinet.
Single condenser fan shall not exceed a sound power level of 75 LwA.
Compressors mounted on a shelf behind an insulated door for minimized radiated and transmitted sound.
Direct-drive fans with factory mounted VFDs.
Controller must have simplified access via a laptop to view and change unit operation, set points, alarm history & 1 week of trending data.
Enthalpy wheel must be sized for 100% of outdoor air volume at design conditions.
Lead EC motor on condenser fan.
Modulating Hot Gas Reheat micro-channel coil for dehumidification.

OPTIONS AND ACCESSORIES

Weatherhood: Downturned Hood
Frost Control: Cycle Wheel
Outdoor Air Filters - MERV 8
Exhaust Air Filters - MERV 8
Supply Filters - 2" Pleated MERV 13
Outdoor Air Dampers - Motorized Low Leakage
Recirc Dampers - Motorized Low Leakage
Painted Exterior - RAL7023
Microprocessor Controls
Supply Fan VFD Control - Constant Volume-Adj. Setpoint
Exhaust Fan VFD Control - OA Damper Tracking
OA/RA Damper Controls - Constant Position-Adj. Setpoint
Economizer Mode - Temp./Enthalpy
OA RH Sensor
Wheel Control - Modulating
Network Protocol: BACNetMSTP
Dirty Filter Switch: Outdoor, Exhaust and Supply
Rotation Sensor
Phase and Brown Out Protection
120v NEMA 3R Outlet (Factory mounted and wired)
Unit Disconnect - Mounted By Factory
Condensate Overflow Switch
Economizer Fault Detection Diagnostics
Energy Wheel Warranty - 5 Yrs Less Motor
Unit Warranty: 18 Months Standard
Extended Compressor Warranty: 5 Yrs

GENERAL SCHEDULE NOTES (APPLICABLE TO EACH UNIT IN EACH SCHEDULE):
1. REFER TO SPECIFICATIONS FOR SEQUENCE OF OPERATIONS FOR NEW UNIT.
2. PROVIDE FACTORY-AUTHORIZED REPRESENTATIVE TO BE PRESENT FOR START-UP, COMMISSIONING, AND TRAINING OF EQUIPMENT TO OWNER'S PERSONNEL.
3. FACTORY-AUTHORIZED MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR RIGGING OF EQUIPMENT.
4. PROVIDE A 18" HEIGHT ROOF CURB.
5. PROVIDE SOUND ATTENUATION FOR ROOF CURB AS NOTED PER DETAIL ON THIS DRAWING.
6. PROVIDE A FACTORY WIRED GFI SERVICE RECEPTACLE.
7. REFER TO EACH ROOFTOP UNIT SCHEDULE NOTES FOR ALL ADDITIONAL ACCESSORIES/FEATURES REQUIRED PER ROOFTOP UNIT.
8. PROVIDE P-TRAP FOR EACH ROOFTOP UNIT.
9. PROVIDE HOT-GAS REHEAT COILS FOR DEHUMIDIFICATION.
10. PROVIDE SERRATED EDGE CONDENSER FAN BLADES.
11. PROVIDE STARTERS AND DISCONNECTS FOR MC TO GIVE TO EC FOR EC TO INSTALL & POWER.
12. FAN SHUT DOWN PROVIDED FOR ALL EQUIPMENT OVER 2000 CFM. REFER TO ELECTRICAL PLANS FOR ELECTRICAL EQUIPMENT SCHEDULE FOR UNITS REQUIRING FAN SHUT DOWN.

FOR NEW ROOFTOP UNITS, REFER TO ALL NEW WORK ROOF PLANS FOR DESCRIPTION OF UNITS WHICH SHALL RECEIVE ONE (1) OF THE FOLLOWING OPTIONS:
1. STANDARD 14" HEIGHT ROOF CURB FOR ROOFTOP EQUIPMENT.
2. NEW STEEL DUNNAGE WHICH IS TO BE FURNISHED & INSTALLED BY G.C.

HOT WATER FIN TUBE SCHEDULES (BASIS: ZEHENDER RITTLING) (EQUIPMENT TO BE FURNISHED BY INSTALLED BY MC)

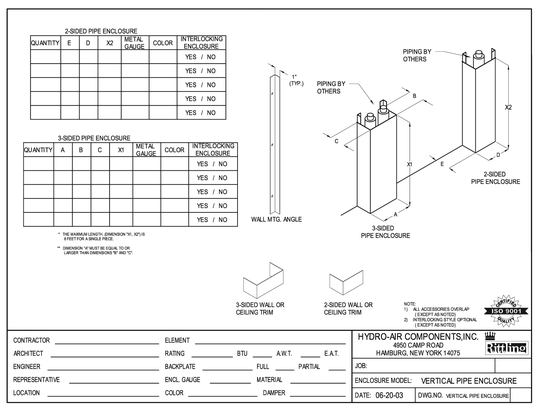
FIN TUBE HEATING SCHEDULE

General	Element							Enclosure			Heating					Notes
Primary tag	Model	Manufacturer	Fin Size	Tube Diameter	Fin Spacing	Coil Config	Rows of Element	Model	Depth	Height	EAT DB (deg.F)	Capacity (BTU/FT)	EWT (deg.F)	Fluid ΔT (deg.F)	LWT (deg.F)	
FT-A	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	FS	5 3/8" D	24" H	68.0	1515.72	180.0	20.0	160.0	
FT-B	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	FS	5 3/8" D	24" H	68.0	1825.89	180.0	20.0	160.0	
FT-C	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	3	FS	5 3/8" D	24" H	68.0	2095.09	180.0	20.0	160.0	
FT-D	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	1	FS	5 3/8" D	24" H	68.0	1515.72	180.0	20.0	160.0	WITH RETURN PIPE HANGERS
FT-E	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	2	FS	5 3/8" D	24" H	68.0	1825.89	180.0	20.0	160.0	WITH RETURN PIPE HANGERS
FT-F	Copper-Aluminum	ZEHNDER-RITTLING	4-1/4" X 4-1/4" FIN	3/4" TUBE	48 FINS PER FOOT	Hot Water	3	FS	5 3/8" D	24" H	68.0	2095.09	180.0	20.0	160.0	WITH RETURN PIPE HANGERS

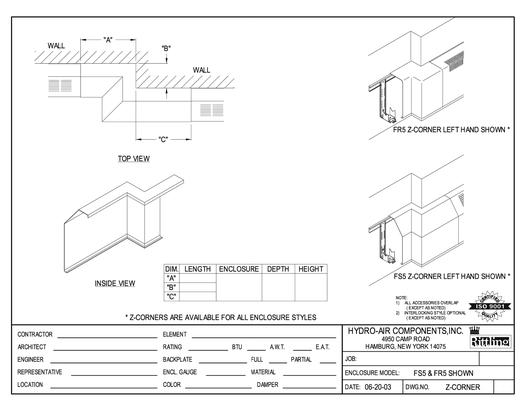
NOTES:

Provide wall to wall enclosure
Provide matching vertical pipe enclosure to cover piping at either end of the room
Provide custom Z-corner section where masonary wall meets window mullion wall (contractor to coordinate with manufacterer for field measurement)
Provide full backplate option for all enclosure

GENERAL SCHEDULE NOTES (APPLICABLE TO EACH UNIT IN EACH SCHEDULE):
1. PROVIDE SLOPED TOP ENCLOSURE FOR EACH FIN TUBE ELEMENT.
2. REFER TO PLANS FOR ACTIVE LENGTHS AND TOTAL CAPACITY VALUES.
3. MC SHALL EXAMINE EACH SPACE REQUIRING NEW FIN TUBE TO SEE THE TOTAL QUANTITIES OF "Z-CORNERS" REQUIRED FOR THE PROJECT. THIS SHALL BE INCLUDED IN MC'S SCOPE & PRICE.
4. MC SHALL ALSO INCLUDE 16-GAUGE VERTICAL PIPE ENCLOSURES TO CONCEAL NEW HWS & HWR RISERS IN SPACES.



CONTRACTOR	ELEMENT	HYDRO-AIR COMPONENTS,INC. 4950 CAMP ROAD HAMBURG, NEW YORK 14075	
ARCHITECT	RATING BTU A.W.T. E.A.T.		
ENGINEER	BACKPLATE FULL PARTIAL	JOB:	
REPRESENTATIVE	ENCL. GAUGE MATERIAL	ENCLOSURE MODEL: VERTICAL PIPE ENCLOSURE	
LOCATION	COLOR DAMPER	DATE: 06-20-03	DWG.NO. VERTICAL PIPE ENCLOSURE



DIM.	LENGTH	ENCLOSURE	DEPTH	HEIGHT
"A"				
"B"				
"C"				

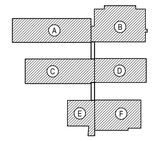
* Z-CORNERS ARE AVAILABLE FOR ALL ENCLOSURE STYLES

CONTRACTOR	ELEMENT	HYDRO-AIR COMPONENTS,INC. 4950 CAMP ROAD HAMBURG, NEW YORK 14075	
ARCHITECT	RATING BTU A.W.T. E.A.T.		
ENGINEER	BACKPLATE FULL PARTIAL	JOB:	
REPRESENTATIVE	ENCL. GAUGE MATERIAL	ENCLOSURE MODEL: FSS & FRS SHOWN	
LOCATION	COLOR DAMPER	DATE: 06-20-03	DWG.NO. Z-CORNER

REV.	DATE	ITEM

NOTICE

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KEY PLAN
NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No. 13-22-01-04-0-008-017
DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.02

HOT WATER DUCT COIL SCHEDULES (HWC-RTU GYM A, HWC-RTU GYM B) SCHEDULES (BASIS: PERCISION COILS) (EQUIPMENT TO BE FURNISHED BY INSTALLED BY MC)

PRECISION COILS
Right Fit. Right Now.
888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

AHRI CERTIFIED

SUBMITTAL DATA

Millbrook MS PH1B - COILS
USA

Hot Water Coils

Tag	Qty	Model	Footnotes	Comment
HWC-RTU GYM A	1	HWS8S02Q08-60x60-RH	a,b	
HWC-RTU GYM B	1	HWS8S02Q08-60x60-RH	a,b	

Construction and Performance Details

Tag	HWC-RTU GYM A	HWC-RTU GYM B
Air flow (SCFM)	7200	7200
Altitude (ft)	0	0
Total capacity (MBH)	414.4	414.4
Entering dry bulb (°F)	62.1	62.1
Leaving dry bulb (°F)	115.2	115.2
Face velocity (ft/min)	288	288
Air pressure drop (in of water)	0.09	0.09
Air fouling factor (h·ft²·°F/Btu)	0.00000	0.00000
Fluid	W	W
Entering fluid temp. (°F)	170.0	170.0
Leaving fluid temp. (°F)	145.0	145.0
Fluid flow rate (GPM)	33.8	33.8
Fluid velocity (ft/s)	3.69	3.69
Fluid pressure drop (ft of water)	7.9	7.9
Fluid fouling factor (h·ft²·°F/Btu)	0.00000	0.00000
Fluid freezing temp. (°F)	32.0	32.0
Min. tube wall temp. (°F)	140.2	140.2
Coils per bank	1	1
Coil type	5/8	5/8
Fin height (in)	60.0	60.0
Fin length (in)	60.0	60.0
Face area (ft²)	25.00	25.00
Rows	2	2
Fin spacing (fins/in)	8	8
Fin material	Al	Al
Fin type	Sine	Sine
Fin thickness (in)	0.008	0.008
Tube wall thickness (in)	0.020	0.020
Turbulators	No	No
Number of feeds	10	10
Supply conn. size (in)	1.500	1.500
Return conn. size (in)	1.500	1.500
Weight (lb)	193	193
Est. operating wt. (lb)	249	249
Est. internal volume (ft³)	0.99	0.99

Footnotes

(a) Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard-410 within the Range of Standard Rating Conditions listed in

SUBMITTAL DATA

Millbrook MS PH1B - COILS
USA

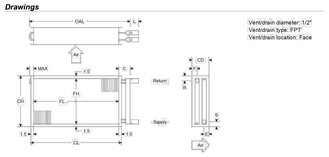
Footnotes(cont.)

Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.
(b) Tube OD 0.625, Tube spacing 1.500 x 1.299

SUBMITTAL DRAWINGS

Millbrook MS PH1B - COILS
USA

Drawings



Dimensions*

Tag	HWC-RTU GYM A	HWC-RTU GYM B
Model	HWS8S02Q08-60x60-RH	HWS8S02Q08-60x60-RH
Weight	193	193
Fin material & type	0.008 Aluminum Sine-wave	0.008 Aluminum Sine-wave
Tube wall	0.02 / Smooth	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking	16 ga. galv. steel (std) / Stacking
Coating	None	None
Turbulators	No	No
Header diameter	1.625	1.625
Supply / return conn. size	1.5 / 1.5	1.5 / 1.5
Connection type	MPT Copper	MPT Copper
Number of feeds	10 (Quarter)	10 (Quarter)
FH / FL	60 / 60	60 / 60
CH / CL	63 / 63	63 / 63
OAL / CD	67 / 6.5	67 / 6.5
C	4.75	4.75
S / R	2.25 / 2.25	2.25 / 2.25
E / F	1.85 / 1.85	1.85 / 1.85
L / MAX	3.25 / 2.25	3.25 / 2.25

* All distances are measured as inches.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR COIL ASSIST WITH FIELD MEASUREMENT FOR PROPOSED COIL PRIOR TO GENERATING A SUBMITTAL FOR REVIEW/APPROVAL PROCESS.

HOT WATER DUCT COIL SCHEDULES (HWC-RTU LOBBY) SCHEDULES (BASIS: PERCISION COILS) (EQUIPMENT TO BE FURNISHED BY INSTALLED BY MC)

PRECISION COILS
Right Fit. Right Now.
888-821-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

AHRI CERTIFIED

SUBMITTAL DATA

Millbrook MS PH1B - COILS
PrecisionCoils Coil HWC-RTU LOBBY

Hot Water Coil

Tag	Qty	Model	Footnotes	Comment
HWC-RTU LOBBY	1	HWS8S02S11-18x24-RH	a,b	

Construction and Performance Details

Tag	HWC-RTU LOBBY
Air flow (SCFM)	1600
Altitude (ft)	0
Total capacity (MBH)	93.8
Entering dry bulb (°F)	60.9
Leaving dry bulb (°F)	115.0
Face velocity (ft/min)	533
Air pressure drop (in of water)	0.30
Air fouling factor (h·ft²·°F/Btu)	0.00000
Fluid	W
Entering fluid temp. (°F)	170.0
Leaving fluid temp. (°F)	145.0
Fluid flow rate (GPM)	7.7
Fluid velocity (ft/s)	2.79
Fluid pressure drop (ft of water)	3.6
Fluid fouling factor (h·ft²·°F/Btu)	0.00000
Fluid freezing temp. (°F)	32.0
Min. tube wall temp. (°F)	133.6
Coils per bank	1
Coil type	5/8
Fin height (in)	18.0
Fin length (in)	24.0
Face area (ft²)	3.00
Rows	2
Fin spacing (fins/in)	11
Fin material	Al
Fin type	Sine
Fin thickness (in)	0.008
Tube wall thickness (in)	0.020
Turbulators	No
Number of feeds	3
Supply conn. size (in)	0.750
Return conn. size (in)	0.750
Weight (lb)	38
Est. operating wt. (lb)	45
Est. internal volume (ft³)	0.12

Footnotes

(a) Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard-410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

SUBMITTAL DATA

Millbrook MS PH1B - COILS
PrecisionCoils Coil HWC-RTU LOBBY

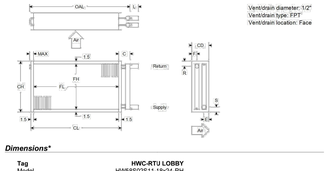
Footnotes(cont.)

(b) Tube OD 0.625, Tube spacing 1.500 x 1.299

SUBMITTAL DRAWINGS

Millbrook MS PH1B - COILS
PrecisionCoils Coil HWC-RTU LOBBY

Drawings



Dimensions*

Tag	HWC-RTU LOBBY
Model	HWS8S02S11-18x24-RH
Weight	38
Fin material & type	0.008 Aluminum Sine-wave
Tube wall	0.02 / Smooth
Casing material / flange	16 ga. galv. steel (std) / Stacking
Coating	None
Turbulators	No
Header diameter	0.875
Supply / return conn. size	0.75 / 0.75
Connection type	MPT Copper
Number of feeds	3 (Quarter)
FH / FL	18 / 24
CH / CL	21 / 27
OAL / CD	30.25 / 6.5
C	4
S / R	1.875 / 1.875
E / F	2.6 / 2.6
L / MAX	2 / 2.25

* All distances are measured as inches.

SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR COIL ASSIST WITH FIELD MEASUREMENT FOR PROPOSED COIL PRIOR TO GENERATING A SUBMITTAL FOR REVIEW/APPROVAL PROCESS.

ZONE GLYCOL HOT WATER PUMPS (GHWP-2, GHWP-2A) SCHEDULES (BASIS: ARMSTRONG) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

Millbrook CSD-Bond Phase 1B-Middle School---Glycol System Pump

New chilled water pump

Tag	Service	Type	Fluid	Flow rate	Total dynamic Head feet	Required NPSH	BHP	Consumed HP	Pump speed	Efficiency	Max temp rating	Manufacturer	Model	Dimensions
GHWP-2, GWP-2A	Chilled water	Vertical In-line	40% Propylene Glycol	220GPM	96'	17.01'	10	6.89	4,033 RPM At full flow	78.41%	250 DF	Armstrong	4380-2505	15" L 18" W 25" H

Notes:
1. Voltage 208/3/60. VFD rated motor. VFD drive with Sensor-less technology, lead lag capability with BACnet BMS communications.
2. Include pump suction diffuser and triple duty balancing valve.
3. ANSI-125 flanges 4 by 2" x 4"
4. Saddled are by contractor manufacture does not supply them.

SCHEDULE ADDITIONAL NOTES:
1. MC TO PROVIDE PRESSURE GAUGES, ISOLATION VALVES, & FLOW CHECK DEVICE FOR ALL PUMPS.
2. PUMPS TO BE FITTED WITH APPLICATION SUCTION DIFFUSERS & TRIPLE DUTY VALVES.
3. SELF SENSING PUMPS TO INCLUDE FACTORY MOUNTED VFDS WITH VIBRATION ISOLATION & ELECTRICAL DISCONNECT.
4. SELF SENSING PUMPS TO INCLUDE FACTORY CHARACTERIZED PUMP PROGRAMMING TO SIMULATE OPERATION OF A REMOTE SENSOR.
5. PUMP VFDS SHALL INCLUDE INTEGRAL SIMPLE TOUCH PUMP BALANCING PROGRAMMING FEATURES.
6. TYPICAL PUMP STARTER /CONTRACTOR/ RELAY TO BE PROVIDED BY THE INSTALLING CONTRACTOR. DESIGN INTENT IS FOR MANUAL CHANGEOVER TO EMERGENCY BACKUP TO EITHER ZONE.
7. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
8. PROVIDE STARTERS & DISCONNECTS FOR EQUIPMENT.
9. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4.PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
10. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
11. PROVIDE FLEXIBLE PIPING CONNECTIONS AT INLET & OUTLET OF EQUIPMENT.
12. PROVIDE PREMIUM EFFICIENCY MOTOR (BALDOR, AO SMITH, OR APPROVED EQUIVALENT) FOR EQUIPMENT.
13. THERE IS ONE (1) BACKUP PUMP WHICH IS A BACKUP FOR EITHER OF THE TWO (2) ZONE PUMPS ON SCHEDULE.
14. VFD IS STARTER. PROVIDE DISCONNECT.

ZONE (SYSTEM #1) HOT WATER PUMPS (P-3, P-3A) SCHEDULES (BASIS: ARMSTRONG) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

Millbrook CSD-Middle School-Bond Phase System 1

New hot water pump

Tag	Service	Type	Fluid	Flow rate	Total dynamic Head feet	Required NPSH	BHP	Consumed HP	Pump speed	Efficiency	Max temp rating	Manufacturer	Model	Dimensions
P-3 & P-3A (System #1)	Hot water	Vertical In-line	100% water	560 GPM	75'	25.64'	20	14.9	3,243 RPM At full flow	74.75%	250 DF	Armstrong	4300-0306	20" L 28" W 49" H

Notes:
1. Voltage 208/3/60. VFD rated motor. VFD drive with Sensor-less technology, lead lag capability with BACnet BMS communications.
2. Include pump suction diffuser and triple duty balancing valve.
3. ANSI-125 flanges 3" x 3"

SCHEDULE ADDITIONAL NOTES:
1. MC TO PROVIDE PRESSURE GAUGES, ISOLATION VALVES, & FLOW CHECK DEVICE FOR ALL PUMPS.
2. PUMPS TO BE FITTED WITH APPLICATION SUCTION DIFFUSERS & TRIPLE DUTY VALVES.
3. SELF SENSING PUMPS TO INCLUDE FACTORY MOUNTED VFDS WITH VIBRATION ISOLATION & ELECTRICAL DISCONNECT.
4. SELF SENSING PUMPS TO INCLUDE FACTORY CHARACTERIZED PUMP PROGRAMMING TO SIMULATE OPERATION OF A REMOTE SENSOR.
5. PUMP VFDS SHALL INCLUDE INTEGRAL SIMPLE TOUCH PUMP BALANCING PROGRAMMING FEATURES.
6. TYPICAL PUMP STARTER /CONTRACTOR/ RELAY TO BE PROVIDED BY THE INSTALLING CONTRACTOR. DESIGN INTENT IS FOR MANUAL CHANGEOVER TO EMERGENCY BACKUP TO EITHER ZONE.
7. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
8. PROVIDE STARTERS & DISCONNECTS FOR EQUIPMENT.
9. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4.PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
10. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
11. PROVIDE FLEXIBLE PIPING CONNECTIONS AT INLET & OUTLET OF EQUIPMENT.
12. PROVIDE PREMIUM EFFICIENCY MOTOR (BALDOR, AO SMITH, OR APPROVED EQUIVALENT) FOR EQUIPMENT.
13. THERE IS ONE (1) BACKUP PUMP WHICH IS A BACKUP FOR EITHER OF THE TWO (2) ZONE PUMPS ON SCHEDULE.
14. VFD IS STARTER. PROVIDE DISCONNECT.

CONDENSATE PUMP (CP-HEAVY DUTY) SCHEDULES (BASIS OF DESIGN: LITTLE GIANT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

Franklin Electric



553245 – VCL-45ULS

The VCL-45 Series 450 GPH, 230 V In-Pan Condensate Removal Pump with safety switch is rated for high-efficiency gas furnace applications that produce an acidic condensate. This vertical type pump unit features a leakproof, rustproof ABS tank, 3/8" O.D. copper tube discharge and ABS switch voer and pump stand.

Item: 553245
Model: VCL-45ULS

Ratings

HP 60Hz	1/5 hp
Frequency	50Hz/60Hz
Amps - Full Load	1 A
Full Load Watts	250 W
Volts	230 VAC
Cord Length	6 ft

Operation

Maximum Flow Rate - 60Hz	450 gph
Max PSIG	19.5 PSI
Max Flow Rate - 50Hz	450 gph
Shut-Off	45 ft
Safety Switch	Yes

Liquid

Max Fluid Temperature	120 °F

Materials of Construction

Pump Body Material	Plastic

Installation

Discharge	0.38 "
Product Length	12.11 "
Product Width	6 "
Product Height	10.85 "
Product Weight	14 lb
Product Weight w/ Pack	10.8 lb
Carton Length	12.88 "
Carton Width	6.5 "
Carton Height	11 "
Tubing Included	No

Other

Minimum Order Quantity	1

Accessories / Repair Kits	• Tank 153502 • Cover, Switch Assy. 153537 • Seal Ring 928025 • Impeller 153520 • Switch, Pump 950337 • Overflow Detection Switch 950333 • CV-35 3/8"" (9.5 mm) rigid plastic or copper tubing on both ends 599064 • T-3/8 100 ft (640.1 m) of 3/8"" (9.5 mm) ID x 1/2"" (12.37 mm) OD clear tubing • T20/T25 100 ft (640.1 m) of 3/8"" (9.5 mm) ID x 1/2"" (12.37 mm) OD clear tubing 599033
Electrical Agency Approvals	CSA
Standard Warranty	12 Months

NOTE:
1. MANUFACTURER TO BE PRESENT FOR START-UP, COMMISSIONING, & TRANING OF OWNER'S PERSONNEL. PROVIDE DISCONNECT WITH EQUIPMENT.
2. REFER TO PLANS FOR QUANTITIES.

ZONE (SYSTEM #2) HOT WATER PUMPS (P-4, P-4A) SCHEDULES (BASIS: ARMSTRONG) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

Millbrook CSD-Middle School-Bond Phase System 2

New hot water pump

Tag	Service	Type	Fluid	Flow rate	Total dynamic Head feet	Required NPSH	BHP	Consumed HP	Pump speed	Efficiency	Max temp rating	Manufacturer	Model	Dimensions
P4-P4A (System #2)	Hot water	Vertical In-line	100% water	255 GPM	65'	10.33'	7.5	5.3	3,315 RPM At full flow	78.94%	250 DF	Armstrong	4380 2505	16" L 14" W 25" H

Notes:
1. Voltage 208/3/60. VFD rated motor. VFD drive with Sensor-less technology, lead lag capability with BACnet BMS communications.
2. Include pump suction diffuser and triple duty balancing valve.
3. ANSI-125 flanges 2.5" x 2.5"

SCHEDULE ADDITIONAL NOTES:
1. MC TO PROVIDE PRESSURE GAUGES, ISOLATION VALVES, & FLOW CHECK DEVICE FOR ALL PUMPS.
2. PUMPS TO BE FITTED WITH APPLICATION SUCTION DIFFUSERS & TRIPLE DUTY VALVES.
3. SELF SENSING PUMPS TO INCLUDE FACTORY MOUNTED VFDS WITH VIBRATION ISOLATION & ELECTRICAL DISCONNECT.
4. SELF SENSING PUMPS TO INCLUDE FACTORY CHARACTERIZED PUMP PROGRAMMING TO SIMULATE OPERATION OF A REMOTE SENSOR.
5. PUMP VFDS SHALL INCLUDE INTEGRAL SIMPLE TOUCH PUMP BALANCING PROGRAMMING FEATURES.
6. TYPICAL PUMP STARTER /CONTRACTOR/ RELAY TO BE PROVIDED BY THE INSTALLING CONTRACTOR. DESIGN INTENT IS FOR MANUAL CHANGEOVER TO EMERGENCY BACKUP TO EITHER ZONE.
7. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
8. PROVIDE STARTERS & DISCONNECTS FOR EQUIPMENT.
9. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4.PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
10. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
11. PROVIDE FLEXIBLE PIPING CONNECTIONS AT INLET & OUTLET OF EQUIPMENT.
12. PROVIDE PREMIUM EFFICIENCY MOTOR (BALDOR, AO SMITH, OR APPROVED EQUIVALENT) FOR EQUIPMENT.
13. THERE IS ONE (1) BACKUP PUMP WHICH IS A BACKUP FOR EITHER OF THE TWO (2) ZONE PUMPS ON SCHEDULE.
14. VFD IS STARTER. PROVIDE DISCONNECT.

CONDENSATE PUMP (CP-VRF) SCHEDULES (BASIS OF DESIGN: LITTLE GIANT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

MODEL= VCCA-20-P
PUMP HORSE POWER = 1/30 H.P.
VOLTS = 230 V
HERTZ = 60
AMPERAGE = 0.5 AMPS
WATTS = 75 W
DISCHARGE PIPING SIZE = 3/8"Ø

GALLONS PER HOUR AT HEIGHT:
80 GALLONS PER HOUR AT 1 FEET HEIGHT
70 GALLONS PER HOUR AT 5 FEET HEIGHT
45 GALLONS PER HOUR AT 10 FEET HEIGHT
10 GALLONS PER HOUR AT 18 FEET HEIGHT

SHUT OFF HEIGHT (FEET) = 17 FEET

PSI = 7.4 PSI
CORD = 6 FEET
APPROXIMATE WEIGHT = 4.5 POUNDS

PLENUM-RATED PUMP

NOTE:
1. MANUFACTURER TO BE PRESENT FOR START-UP, COMMISSIONING, & TRANING OF OWNER'S PERSONNEL. PROVIDE DISCONNECT WITH EQUIPMENT.
2. REFER TO PLANS FOR QUANTITIES.

AREA "A"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

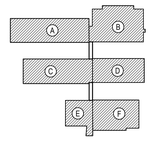
Unit Tags	Model Number	Unit voltage	Design airflow (cfm)	ESP (in H2O)	Total heating capacity (MBh)	Heating EAT (F)	Heating LAT (F)	Heating ent fluid temp (F)	Heating lvg fluid temp (F)	Heating delta T (F)	Heating flow rate (gpm)	Heating coil fluid PD (ft H2O)	Motor hp #1 (hp)	Motor rpm #1 (rpm)	Motor power (W)	Min circuit ampacity (A)	Max fuse size (A)
CH-STORAGE 42	FFEB040	115v60hz/1ph	300	0.25	21.68	60	126.64	170	150	20	2.17	4.58	0.059	1289	80	2.75	15
CH-BOYS TO T6	FFEB020	115v60hz/1ph	200	0.25	18.21	60	143.94	170	150	20	1.82	3.95	0.04	1188	62	2.75	15
CH-GIRLS T T5	FFEB020	115v60hz/1ph	200	0.25	18.21	60	143.94	170	150	20	1.82	3.95	0.04	1188	62	2.75	15
CH-CLASSROOM 59	FFEB060	115v60hz/1ph	400	0.25	36.29	60	143.66	170	150	20	3.63	4.69	0.077	1188	103	2.75	15
CH-CLASSROOM 58	FFEB061	115v60hz/1ph	400	0.25	36.29	60	143.66	170	150	20	3.63	4.69	0.077	1188	103	2.75	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE TO EC FOR EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW), MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

REV.	DATE	ITEM

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. 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 BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN
NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No. 13-22-01-04-0-008-017
DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.03

AREA "B"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

Unit Tags	Model Number	Unit voltage	Design airflow (cfm)	ESP (in H2O)	Total heating capacity (MBh)	Heating EAT (F)	Heating LAT (F)	Heating ent fluid temp (F)	Heating lvg fluid temp (F)	Heating delta T (F)	Heating flow rate (gpm)	Heating coil fluid PD (ft H2O)	Motor hp #1 (hp)	Motor rpm #1 (rpm)	Motor power (W)	Min circuit ampacity (A)	Max fuse size (A)
CH-PE OFFICE 40B	FFEB020	115v/60hz/1ph	200	0	18.21	60	143.94	170	150	20	1.82	3.95	0.019	886	40	2.75	15
CH-GYM STORAGE 40C	FFEB020	115v/60hz/1ph	150	0	11.81	60	132.61	170	150	20	1.18	6	0.008	700	25	2.75	15
CH-STORAGE 40D	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	0.003	730	20	2.75	15
CH-GIRLS LOCKER 40-1	FFEB080	115v/60hz/1ph	550	0.25	39.99	60	127.05	170	150	20	4.00	5.11	0.118	1305	150	3.88	15
CH-GIRLS LOCKER 40-2	FFEB060	115v/60hz/1ph	550	0.25	39.99	60	127.05	170	150	20	4.00	5.11	0.118	1305	150	3.88	15
CH-SCIENCE 45-1	FFEB060	115v/60hz/1ph	500	0.25	43.48	60	140.19	170	150	20	4.35	6.6	0.117	1344	142	3.88	15
CH-SCIENCE 45-2	FFEB060	115v/60hz/1ph	500	0.25	43.48	60	140.19	170	150	20	4.35	6.6	0.117	1344	142	3.88	15
CH-SCIENCE STORAGE/PREP RM 45B	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	0.003	730	20	2.75	15
CH-HOME ECONOMICS 44	FFEB100	115v/60hz/1ph	700	0.25	71.82	60	154.61	170	150	20	7.18	8.53	0.05	1264	185	6.08	15
CH-LAUNDRY ROOM 44B	FFEB020	115v/60hz/1ph	150	0	11.81	60	132.61	170	150	20	1.18	6	0.008	700	25	2.75	15
CH-SCIENCE STORAGE/PREP 41B	FFEB020	115v/60hz/1ph	150	0	14.09	60	146.63	170	150	20	1.41	2.48	0.009	700	27	2.75	15
CH-STORAGE 38	FFEB040	115v/60hz/1ph	350	0.25	24.25	60	123.88	170	150	20	2.42	5.63	0.079	1410	104	2.75	15
CH-PE OFFICE 37B	FFEB020	115v/60hz/1ph	150	0	14.09	60	146.63	170	150	20	1.41	2.48	0.009	700	27	2.75	15
CH-GYM STORAGE 37C	FFEB020	115v/60hz/1ph	150	0	11.81	60	132.61	170	150	20	1.18	6	0.008	700	25	2.75	15
CH-STORAGE 37D	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	0.003	730	20	2.75	15
CH-BOYSLOCKER 37-1	FFEB060	115v/60hz/1ph	500	0.25	43.48	60	140.19	170	150	20	4.35	6.6	0.117	1344	142	3.88	15
CH-BOYSLOCKER 37-2	FFEB060	115v/60hz/1ph	500	0.25	43.48	60	140.19	170	150	20	4.35	6.6	0.117	1344	142	3.88	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

AREA "C"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

Unit Tags	Model Number	Unit voltage	Design airflow (cfm)	ESP (in H2O)	Total heating capacity (MBh)	Heating EAT (F)	Heating LAT (F)	Heating ent fluid temp (F)	Heating lvg fluid temp (F)	Heating delta T (F)	Heating flow rate (gpm)	Heating coil fluid PD (ft H2O)	Motor hp #1 (hp)	Motor rpm #1 (rpm)	Motor power (W)	Min circuit ampacity (A)	Max fuse size (A)
CH-CLASSROOM 19	FFEB040	115v/60hz/1ph	400	0.25	36.29	60	143.66	170	150	20	3.63	4.69	0.077	1188	103	3.88	15
CH-STORAGE 18	FFEB020	115v/60hz/1ph	175	0.25	16.22	60	145.45	170	150	20	1.62	3.20	0.032	1118	52	2.75	15
CH-BOYS TO T4	FFEB030	115v/60hz/1ph	215	0.25	19.34	60	142.95	170	150	20	1.93	4.41	0.045	1232	67	2.75	15
CH-WOMENS T3	FFEB020	115v/60hz/1ph	225	0.25	20.08	60	142.27	170	150	20	2.01	4.72	0.049	1261	71	2.75	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

AREA "D"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

Unit Tag	Model Number	Unit voltage	Design airflow	ESP	Total heating capacity	Heating EAT	Heating LAT	Heating ent fluid temp	Heating lvg fluid temp	Heating delta T	Heating flow rate	Heating coil fluid PD	Fluid type	Motor hp #1	Motor speed	Motor power	Min circuit ampacity	Max fuse size
			cfm	in H2O	MBh	F	F	F	F	F	gpm	ft H2O		hp	rpm	W	A	A
CH-RM59	FFEB020	115v/60hz/1ph	200	0	18.21	60	143.94	170	150	20	1.82	3.95	Water	0.019	886	40	2.75	15
CH-RM61	FFEB020	115v/60hz/1ph	150	0	14.09	60	146.63	170	150	20	1.41	2.48	Water	0.009	700	27	2.75	15
CH-RM15	FFEB060	115v/60hz/1ph	450	0	40.00	60	141.96	170	150	20	4.00	5.63	Water	0.057	1026	82	3.88	15
CH-RM13	FFEB020	115v/60hz/1ph	225	0	20.08	60	142.27	170	150	20	2.01	4.72	Water	0.026	978	47	2.75	15
CH-RM12A	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	Water	0.003	730	20	2.75	15
CH-RM16-1	FFEB060	115v/60hz/1ph	350	0	32.35	60	145.23	170	150	20	3.23	3.77	Water	0.03	829	53	3.88	15
CH-RM16-2	FFEB060	115v/60hz/1ph	350	0	32.35	60	145.23	170	150	20	3.23	3.77	Water	0.03	829	53	3.88	15
CH-RM16E	FFEB020	115v/60hz/1ph	90	0	6.91	60	130.83	170	150	20	0.69	2.34	Water	0.002	800	21	2.75	15
CH-RM12F	FFEB020	115v/60hz/1ph	125	0	9.92	60	133.18	170	150	20	0.99	4.41	Water	0.005	700	22	2.75	15
CH-RM12	FFEB020	115v/60hz/1ph	90	0	6.91	60	130.83	170	150	20	0.69	2.34	Water	0.002	800	21	2.75	15
CH-RM13C	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	Water	0.003	730	20	2.75	15
CH-RM11B	FFEB020	115v/60hz/1ph	90	0	6.91	60	130.83	170	150	20	0.69	2.34	Water	0.002	800	21	2.75	15
CH-RM11	FFEB020	115v/60hz/1ph	250	0	21.84	60	140.54	170	150	20	2.18	5.51	Water	0.034	1070	55	2.75	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

AREA "E"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

Unit Tag	Quantity	Model Number	Unit voltage	Design airflow	ESP	Total heating capacity	Heating EAT	Heating LAT	Heating ent fluid temp	Heating lvg fluid temp	Heating delta T	Heating flow rate	Heating Fluid Velocity	Heating coil fluid PD	Fluid type	Motor hp #1	Motor hp #2	Fan speed	Motor power	Min circuit ampacity	Max fuse size
				cfm	in H2O	MBh	F	F	F	F	F	gpm	ft/sec	ft H2O		hp	hp	rpm	W	A	A
CH-RM2-1	1	FFEB120	115v/60hz/1ph	1120	0	102.31	60	144.23	170	140	30	6.82	2.56	7.72	Water	0.084	0.163	1381	294	6.07	15
CH-RM2-2	1	FFEB120	115v/60hz/1ph	1120	0	102.31	60	144.23	170	140	30	6.82	2.56	7.72	Water	0.084	0.163	1381	294	6.07	15
CH-RM2-3	1	FFEB120	115v/60hz/1ph	1120	0	102.31	60	144.23	170	140	30	6.82	2.56	7.72	Water	0.084	0.163	1381	294	6.07	15
CH-RM2-4	1	FFEB120	115v/60hz/1ph	1120	0	102.31	60	144.23	170	140	30	6.82	2.56	7.72	Water	0.084	0.163	1381	294	6.07	15
CH-RM39	1	FFHB100	115v/60hz/1ph	675	0	68.18	60	153.13	170	145	25	5.45	2.05	5.01	Water	0.021	0.041	896	99	6.07	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

AREA "F"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

Unit Tags	Model Number	Unit voltage	Design airflow	ESP	Total heating capacity	Heating EAT	Heating LAT	Heating ent fluid temp	Heating lvg fluid temp	Heating delta T	Heating flow rate	Heating coil fluid PD	Fluid type	Motor hp #1	Motor hp #2	High fan speed #2	Motor power	Min circuit ampacity	Max fuse size
			cfm	in H2O	MBh	F	F	F	F	F	gpm	ft H2O		hp	hp	rpm	W	A	A
CH-RM T1	FFEB020	115v/60hz/1ph	150	0.25	14.09	60	146.63	170	150	20	1.41	2.48	Water	0.026			46	2.75	15
CH-RM T2	FFEB020	115v/60hz/1ph	150	0.25	14.09	60	146.63	170	150	20	1.41	2.48	Water	0.026			46	2.75	15
CH-RM 03	FFEB040	115v/60hz/1ph	340	0.25	23.76	60	124.43	170	150	20	2.37	5.42	Water	0.075			99	2.75	15
CH-RM 01A	FFEB040	115v/60hz/1ph	350	0.25	24.25	60	123.88	170	150	20	2.42	5.63	Water	0.079			104	2.75	15
CH-RM 4A	FFEB020	115v/60hz/1ph	135	0	10.7	60	133.08	170	150	20	1.07	5.04	Water	0.006			23	2.75	15
CH-RM 4B	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	Water	0.003			20	2.75	15
CH-RM 4D	FFEB020	115v/60hz/1ph	90	0	6.91	60	130.83	170	150	20	0.69	2.34	Water	0.002			21	2.75	15
CH-RM 6A	FFEB040	115v/60hz/1ph	300	0	21.68	60	126.64	170	150	20	2.17	4.58	Water	0.13			58	2.44	15
CH-RM B2	FFEB020	115v/60hz/1ph	100	0	7.82	60	132.11	170	150	20	0.78	2.91	Water	0.003			20	2.75	15
CH-RM 01	FFEB100	115v/60hz/1ph	660	0.25	60.29	60	144.23	170	145	25	4.82	6.31	Water	0.044	0.085	1213	167	6.07	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO EXISTING BUILDING MANAGEMENT SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

AREAS "A", "B", "C", "D", "E", & "F"-HOT WATER CABINET HEATER SCHEDULES (BASIS: TRANE/FORCE-FLO) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

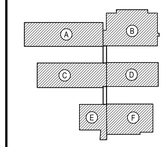
Unit Tags	Model Number	Unit voltage	Design airflow (cfm)	ESP (in H2O)	Total heating capacity (MBh)	Heating EAT (F)	Heating LAT (F)	Heating ent fluid temp (F)	Heating lvg fluid temp (F)	Heating delta T (F)	Heating flow rate (gpm)	Heating coil fluid PD (ft H2O)	Motor hp #1 (hp)	Motor rpm #1 (rpm)	Motor power (W)	Min circuit ampacity (A)	Max fuse size (A)
CH-CORRIDOR C-1, C-2, C-3	FFJB040	115v/60hz/1ph	350	0	24.25	60	123.88	170	150	20	2.42	5.63	0.054	1208	77	2.75	15

ADDITIONAL SCHEDULE NOTES:
1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
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6. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET & OUTLET OF EQUIPMENT FOR DUCTED UNITS.
7. PROVIDE MERV 13 RATED FILTERS.
8. FOR CEILING MOUNTED UNITS WHICH FIT INTO A DROP CEILING (EXISTING OR NEW), MC SHALL BE ENTIRELY RESPONSIBLE FOR CUTTING THE REQUIRED DROP CEILING PANELS.
9. PROVIDE RECESSED TRIM KIT FOR UNITS GOING INTO A DROP CEILING (EXISTING OR NEW). MC SHALL ENSURE THAT UNIT SHALL BE FLUSH WITH DROP CEILING.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
MECHANICAL SCHEDULES

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

NOTICE

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SED No: 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M6.04

VRF SYSTEM -INDOOR UNIT SCHEDULES (BASIS: TRANE MITSUBISHI) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Altitude (feet)	Corrected Capacity					Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
										Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)							
ACCU-53-55-57-59		AC-RM59	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,137.4	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-53-55-57-59		AC-RM57	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,137.4	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-53-55-57-59		AC-RM55	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,137.4	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-53-55-57-59		AC-RM53	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,137.4	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-52-54-56-58		AC-RM58	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,172.3	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-52-54-56-58		AC-RM56	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,172.3	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-52-54-56-58		AC-RM54	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,172.3	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-52-54-56-58		AC-RM52	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,072.1	21,565.9	FULL DEMAND	19,172.3	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-47-49-51		AC-RM51	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	22,061.7	19,428.2	FULL DEMAND	20,857.8	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-47-49-51		AC-RM49	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	22,061.7	19,428.2	FULL DEMAND	20,857.8	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-47-49-51		AC-RM47	TPCFYP030KM1M0A	Ceiling-Suspended	30,000	34,000	80.0/67.0	70	165.0	FULL DEMAND	27,577.1	21,690.6	FULL DEMAND	26,265.4	3/8 / 5/8	HIGH	990		208/230V/1-phase	1.04/15	1, 2, 3, 4
ACCU-46-48-50		AC-RM50	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	22,629.8	FULL DEMAND	22,651.8	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-46-48-50		AC-RM48	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	22,629.8	FULL DEMAND	22,651.8	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-46-48-50		AC-RM46	TPCFYP024KM1M0A	Ceiling-Suspended	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	22,629.8	FULL DEMAND	22,651.8	3/8 / 5/8	HIGH	640		208/230V/1-phase	0.51/15	1, 2, 3, 4
ACCU-25-27-29		AC-RM29	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	21,702.8	16,331.4	FULL DEMAND	20,807.9	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-25-27-29		AC-RM27	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	21,702.8	16,331.4	FULL DEMAND	20,807.9	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-25-27-29		AC-RM25	TPLFYP030EM1M0A	Ceiling-Cassette (Four-Way)	30,000	34,000	80.0/67.0	70	165.0	FULL DEMAND	27,128.5	23,431.6	FULL DEMAND	26,202.6	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.57/15	1, 2, 3, 4
ACCU-26-28-30		AC-RM30	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	19,147.0	FULL DEMAND	22,639.4	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-26-28-30		AC-RM28	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	19,147.0	FULL DEMAND	22,639.4	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-26-28-30		AC-RM26	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,532.0	19,147.0	FULL DEMAND	22,639.4	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM23	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,313.8	18,783.6	FULL DEMAND	19,095.4	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM21	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,313.8	18,783.6	FULL DEMAND	19,095.4	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM19B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,857.0	4,330.1	FULL DEMAND	3,960.5	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM19	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	17,485.3	13,260.2	FULL DEMAND	14,144.7	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM19C	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,771.3	4,622.9	FULL DEMAND	6,365.1	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-17A-19-21-23		AC-RM17A	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	17,485.3	13,260.2	FULL DEMAND	14,144.7	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-18-20-22-24		AC-RM24	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,649.5	19,346.1	FULL DEMAND	23,095.2	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-18-20-22-24		AC-RM22	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,649.5	19,346.1	FULL DEMAND	23,095.2	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-18-20-22-24		AC-RM20	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,649.5	19,346.1	FULL DEMAND	23,095.2	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-18-20-22-24		AC-RM18	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,883.2	4,696.2	FULL DEMAND	7,698.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM58	TPKFYP004LM1M0A	Wall -Mounted	4,000	4,500	80.0/67.0	70	165.0	FULL DEMAND	3,953.6	3,457.0	FULL DEMAND	3,984.8	1/4 / 1/2	HIGH	148		208/230V/1-phase	0.24/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM59	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,969.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM61	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,941.9	4,361.7	FULL DEMAND	4,958.9	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM60	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,969.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM15C	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	11,860.7	7,868.6	FULL DEMAND	11,954.5	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM15A	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,969.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM15B	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,969.7	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES A		AC-RM15	TPLFYP015FM1M0A	Ceiling-Cassette (Four-Way)	15,000	17,000	80.0/67.0	70	165.0	FULL DEMAND	14,825.8	10,773.9	FULL DEMAND	15,053.8	1/4 / 1/2	HIGH	390		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM13C	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,794.9	4,307.1	FULL DEMAND	4,568.6	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM13B	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,671.8	4,558.5	FULL DEMAND	7,342.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM13	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,671.8	4,558.5	FULL DEMAND	7,342.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM13A	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,671.8	4,558.5	FULL DEMAND	7,342.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM11B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,794.9	4,307.1	FULL DEMAND	4,568.6	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM11	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,015.4	18,299.4	FULL DEMAND	22,027.3	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM11A	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,671.8	4,558.5	FULL DEMAND	7,342.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES B		AC-RM11C	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,671.8	4,558.5	FULL DEMAND	7,342.4	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-RM42		AC-RM42	SLZ-AF18NL	Ceiling-Cassette (Four-Way)	18,000	21,800	80.0/67.0	70	165.0	FULL DEMAND	18,822.0	12,956.8	FULL DEMAND	17,213.6	1/4 / 1/2	HIGH	475		208/230V/1-phase	Powered by Outdoor	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16A	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,941.9	4,361.7	FULL DEMAND	4,859.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16E	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,941.9	4,361.7	FULL DEMAND	4,859.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16-1	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	17,791.0	13,701.5	FULL DEMAND	17,354.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16-2	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	17,791.0	13,701.5	FULL DEMAND	17,354.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16B	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,809.5	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16C	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,809.5	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES C		AC-RM16D	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,907.1	4,712.0	FULL DEMAND	7,809.5	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4

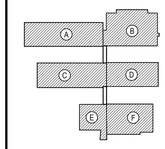
Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
6 It is recommended to always base heating corrected capacity on full demand.

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PRIOR TO FURNISHING SUBMITTAL, MC SHALL HAVE APPROVED VRF SYSTEM MANUFACTUER VISIT JOB SITE TO LAY OUT THE EXACT LOCATIONS & ACTUAL/EXACT REFRIGERANT PIPING RUNS TO/FROM EACH INDOOR/OUTDOOR UNITS & GENERATE FINAL COORDINATED SUBMITTAL FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD.
4. FOR OUTDOOR UNIT, PROVIDE TIE DOWN CLIPS FOR SUPPORT RAILS.
5. MC TO HAVE APPROVED VRF SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS (THY CURBS) FOR PROJECT. MC TO PROVIDE THY CURBS/SUPPORT RAILS TO GC AND GC TO INSTALL & FLASH WITH MC PRESENT.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.05

VRF SYSTEM -INDOOR UNIT SCHEDULES (BASIS: TRANE MITSUBISHI) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Altitude (feet)	Corrected Capacity					Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
										Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)						
ACCU-OFFICES D		AC-RM12E	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12F	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12D	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	22,061.7	16,844.6	FULL DEMAND	21,003.1	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12C	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM12A	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,596.2	4,233.8	FULL DEMAND	4,356.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM10	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,353.9	4,357.5	FULL DEMAND	7,001.0	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM10B	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,353.9	4,357.5	FULL DEMAND	7,001.0	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-OFFICES D		AC-RM10A	TPLFYP008FM1M0A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,353.9	4,357.5	FULL DEMAND	7,001.0	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM45	TPLFYP036EM1M0A	Ceiling-Cassette (Four-Way)	36,000	40,000	80.0/67.0	70	165.0	FULL DEMAND	32,455.1	25,643.4	FULL DEMAND	24,242.0	3/8 / 5/8	HIGH	1095		208/230V/1-phase	0.91/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM45b	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,507.7	4,201.3	FULL DEMAND	3,393.9	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM44	TPLFYP030EM1M0A	Ceiling-Cassette (Four-Way)	30,000	34,000	80.0/67.0	70	165.0	FULL DEMAND	27,045.9	23,274.5	FULL DEMAND	20,605.7	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.57/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM44B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,507.7	4,201.3	FULL DEMAND	3,393.9	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM41B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,507.7	4,201.3	FULL DEMAND	3,393.9	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM41	TPLFYP036EM1M0A	Ceiling-Cassette (Four-Way)	36,000	40,000	80.0/67.0	70	165.0	FULL DEMAND	32,455.1	25,643.4	FULL DEMAND	24,242.0	3/8 / 5/8	HIGH	1095		208/230V/1-phase	0.91/15	1, 2, 3, 4
ACCU-38-41-44-45		AC-RM38	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	10,818.4	6,884.8	FULL DEMAND	8,181.7	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM03	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	11,824.8	7,832.6	FULL DEMAND	9,388.8	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM02	TPLFYP036EM1M0A	Ceiling-Cassette (Four-Way)	36,000	40,000	80.0/67.0	70	165.0	FULL DEMAND	35,474.3	30,964.5	FULL DEMAND	27,818.7	3/8 / 5/8	HIGH	1095		208/230V/1-phase	0.91/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM01B	TPLFYP005FM1M0A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,927.0	4,356.1	FULL DEMAND	3,894.6	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM01-1	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,649.5	19,346.1	FULL DEMAND	18,777.6	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM01-2	TPLFYP024EM1M0A	Ceiling-Cassette (Four-Way)	24,000	27,000	80.0/67.0	70	165.0	FULL DEMAND	23,649.5	19,346.1	FULL DEMAND	18,777.6	3/8 / 5/8	HIGH	812		208/230V/1-phase	0.54/15	1, 2, 3, 4
ACCU-01-02-03		AC-RM01A	TPLFYP012FM1M0A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	11,824.8	7,832.6	FULL DEMAND	9,388.8	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-5	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-6	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-3	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-4	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-1	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-CAFETERIA		AC-RM2-2	TPLFYP018FM1M0A	Ceiling-Cassette (Four-Way)	18,000	20,000	80.0/67.0	70	165.0	FULL DEMAND	16,091.1	11,432.3	FULL DEMAND	13,170.4	1/4 / 1/2	HIGH	460		208/230V/1-phase	0.36/15	1, 2, 3, 4
ACCU-GIRLS LOCKERS		AC-RM37D	PLFY-L05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,068.5	4,041.5	FULL DEMAND	4,510.7	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-GIRLS LOCKERS		AC-RM40C	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	6,509.7	5,647.6	FULL DEMAND	7,249.3	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-GIRLS LOCKERS		AC-RM37	PLFY-EL36NEMU-A	Ceiling-Cassette (Four-Way)	36,000	40,000	80.0/67.0	70	165.0	FULL DEMAND	29,293.5	22,338.2	FULL DEMAND	32,219.0	3/8 / 5/8	HIGH	1095		208/230V/1-phase	0.91/0.91/15	1, 2, 3, 4
ACCU-GIRLS LOCKERS		AC-RM40B	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	6,509.7	5,647.6	FULL DEMAND	7,249.3	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-RM15D		AC-RM15D	PEAD-AA12NL	Ceiling-Concealed (Ducted)	12,400	18,000	80.0/67.0	70	165.0	FULL DEMAND	12,270.2	9,065.0	FULL DEMAND	9,731.8	1/4 / 1/2	HIGH	494	0.14/0.20/0.28/0.40/0.60	208/230V/1-phase	2.5/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM6A	PLFY-L12NFMU-A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	11,877.3	8,025.5	FULL DEMAND	13,106.5	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM6B	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,918.2	6,185.5	FULL DEMAND	8,737.6	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM4A	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	7,918.2	6,185.5	FULL DEMAND	8,737.6	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM4B	PLFY-L05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,948.9	4,364.3	FULL DEMAND	5,436.8	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM4D	PLFY-L05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,948.9	4,364.3	FULL DEMAND	5,436.8	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM4E	PLFY-L12NFMU-A	Ceiling-Cassette (Four-Way)	12,000	13,500	80.0/67.0	70	165.0	FULL DEMAND	11,877.3	8,025.5	FULL DEMAND	13,106.5	1/4 / 1/2	HIGH	335		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-MUSIC SUITE		AC-RM4F	PLFY-L05NFMU-A	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,948.9	4,364.3	FULL DEMAND	5,436.8	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-BOYS LOCKERS		AC-RM37D	PLFY-L05NFMU-A	Ceiling-Cassette (Four-Way	5,000	5,600	80.0/67.0	70	165.0	FULL DEMAND	4,206.8	4,091.5	FULL DEMAND	4,547.2	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-BOYS LOCKERS		AC-RM37C	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	6,730.9	5,730.7	FULL DEMAND	7,307.9	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4
ACCU-BOYS LOCKERS		AC-RM37	PLFY-EL36NEMU-A	Ceiling-Cassette (Four-Way	36,000	40,000	80.0/67.0	70	165.0	FULL DEMAND	30,289.1	22,731.5	FULL DEMAND	32,479.7	3/8 / 5/8	HIGH	1095		208/230V/1-phase	0.91/0.91/15	1, 2, 3, 4
ACCU-BOYS LOCKERS		AC-RM106	PLFY-L08NFMU-A	Ceiling-Cassette (Four-Way	8,000	9,000	80.0/67.0	70	165.0	FULL DEMAND	6,730.9	5,730.7	FULL DEMAND	7,307.9	1/4 / 1/2	HIGH	315		208/230V/1-phase	0.36/0.36/15	1, 2, 3, 4

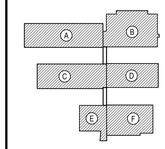
Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply.
It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
6 It is recommended to always base heating corrected capacity on full demand.

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PRIOR TO FURNISHING SUBMITTAL, MC SHALL HAVE APPROVED VRF SYSTEM MANUFACTUER VISIT JOB SITE TO LAY OUT THE EXACT LOCATIONS & ACTUAL/EXACT REFRIGERANT PIPING RUNS TO/FROM EACH INDOOR/OUTDOOR UNITS & GENERATE FINAL COORDINATED SUBMITTAL FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD.
4. FOR OUTDOOR UNIT, PROVIDE TIE DOWN CLIPS FOR SUPPORT RAILS.
5. MC TO HAVE APPROVED VRF SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS (THY CURBS) FOR PROJECT. MC TO PROVIDE THY CURBS/SUPPORT RAILS TO GC AND GC TO INSTALL & FLASH WITH MC PRESENT.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.06

VRF SYSTEM -OUTDOOR UNIT SCHEDULES (BASIS: TRANE MITSUBISHI) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-NET Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Altitude (feet)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module				Notes / Options
													208/230 or [460V]			
												Voltage / Phase	MCA 208/230 or [460V]	RFS	MOCP	
ACCU-53-55-57-59	ACCU-53-55-57-59	51	TURYE0964AMM0AN	EM96	96,000	108,000	92.0	-0.6	165.0	92,288.5	76,549.5	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-52-54-56-58	ACCU-52-54-56-58	55	TURYE0964AMM0AN	EM96	96,000	108,000	92.0	-0.6	165.0	92,288.5	76,689.1	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-47-49-51	ACCU-47-49-51	59	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	71,700.5	67,981.0	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-46-48-50	ACCU-46-48-50	62	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	70,596.0	67,955.5	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-25-27-29	ACCU-25-27-29	65	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	70,534.0	67,818.4	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-26-28-30	ACCU-26-28-30	68	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	70,596.0	67,918.1	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-17A-19-21-23	ACCU-17A-19-21-23	71	TURYE0964AMM0AN	EM96	96,000	108,000	92.0	-0.6	165.0	94,226.6	76,806.0	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-18-20-22-24	ACCU-18-20-22-24	77	TURYE0964AMM0AN	EM96	96,000	108,000	92.0	-0.6	165.0	96,103.2	76,983.8	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-OFFICES A	ACCU-OFFICES A	81	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	71,019.8	67,830.8	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-OFFICES B	ACCU-OFFICES B	89	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	70,964.2	67,876.7	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-RM42	ACCU-RM42		SUZ-AA18NLHZ		18,000	20,000	92.0	-0.6	165.0	18,822.0	17,213.6	208/230V / 1-phase	25	30	42	1, 2, 4, 5, 6
ACCU-OFFICES C	ACCU-OFFICES C	51	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	70,807.9	67,855.8	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-OFFICES D	ACCU-OFFICES D	58	TURYE0724AMM0AN	EM72	72,000	80,000	92.0	-0.6	165.0	71,700.5	68,143.5	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-38-41-44-45	ACCU-38-41-44-45	68	TURYE1204AMM0AN	EM120	120,000	135,000	92.0	-0.6	165.0	116,297.5	87,453.0	460V / 3-phase 3-wire	27	30	45	1, 2, 3, 5, 6
ACCU-01-02-03	ACCU-01-02-03	75	TURYE1204AMM0AN	EM120	120,000	135,000	92.0	-0.6	165.0	117,634.3	88,046.1	460V / 3-phase 3-wire	27	30	45	1, 2, 3, 5, 6
ACCU-CAFETERIA	ACCU-CAFETERIA	81	TURYE0964AMM0AN	EM96	96,000	108,000	92.0	-0.6	165.0	96,546.8	79,022.6	460V / 3-phase 3-wire	22	25	35	1, 2, 3, 5, 6
ACCU-GIRLS LOCKERS	ACCU-GIRLS LOCKERS	87	MXZ-SM48NLHZ	P48	48,000	54,000	92.0	-0.6	165.0	46,381.4	51,228.2	208/230V / 1-phase	45	40	80	1, 2, 3, 5, 6
ACCU-RM15D	ACCU-RM15D	41	PUZ-AK12NL		12,000	20,000	92.0	-0.6	165.0	12,270.2	10,813.1	208/230V / 1-phase	16	20	27	1, 2, 4, 5, 6
ACCU-MUSIC SUITE	ACCU-MUSIC SUITE	92	MXZ-SM60NLHZ		60,000	66,000	92.0	-0.6	165.0	58,104.0	59,998.5	208/230V / 1-phase	45	40	80	1, 2, 3, 5, 6
ACCU-BOYS LOCKERS	ACCU-BOYS LOCKERS	97	MXZ-SM48NLHZ	P48	48,000	54,000	92.0	-0.6	165.0	47,957.7	51,642.8	208/230V / 1-phase	45	40	80	1, 2, 3, 5, 6

Notes & Options:
1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
4 Efficiency values for EER2, SEER2, COP are based on AHRI 210/240 test method for mixture of ducted & non-ducted indoor units.
5 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
6 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PRIOR TO FURNISHING SUBMITTAL, MC SHALL HAVE APPROVED VRF SYSTEM MANUFACTUER VISIT JOB SITE TO LAY OUT THE EXACT LOCATIONS & ACTUAL/EXACT REFRIGERANT PIPING RUNS TO/FROM EACH INDOOR/OUTDOOR UNITS & GENERATE FINAL COORDINATED SUBMITTAL FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD.
4. FOR OUTDOOR UNIT, PROVIDE TIE DOWN CLIPS FOR SUPPORT RAILS.
5. MC TO HAVE APPROVED VRF SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS (THY CURBS) FOR PROJECT. MC TO PROVIDE THY CURBS/SUPPORT RAILS TO GC AND GC TO INSTALL & FLASH WITH MC PRESENT.

VRF SYSTEM -BRANCH BOX CONTROLLER/ENERGY RECOVERY UNIT SCHEDULES (BASIS: TRANE MITSUBISHI) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

System Tag	Tag Reference	M-NET Address	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	MCA 208/230	Notes / Options
ACCU-53-55-57-59	BCC-A1	52	CMB-M104NU-MA-SV	Main	4	96,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-52-54-56-58	BCC-B1	56	CMB-M104NU-MA-SV	Main	4	96,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-47-49-51	BCC-C1	60	CMB-M104NU-MA-SV	Main	4	78,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-46-48-50	BCC-D1	63	CMB-M104NU-MA-SV	Main	4	72,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-25-27-29	BCC-E1	66	CMB-M104NU-MA-SV	Main	4	78,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-26-28-30	BCC-F1	69	CMB-M104NU-MA-SV	Main	4	72,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-17A-19-21-23	BCC-G1	72	CMB-M106NU-MA-SV	Main	6	97,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-18-20-22-24	BCC-H1	78	CMB-M104NU-MA-SV	Main	4	80,000.0	208/230V/1-phase	0.12/0.12	1
ACCU-OFFICES A	BCC-I1	82	CMB-M108NU-MA-SV	Main	8	68,000.0	208/230V/1-phase	0.13/0.13	1
ACCU-OFFICES B	BCC-J1	90	CMB-M108NU-MA-SV	Main	8	74,000.0	208/230V/1-phase	0.13/0.13	1
ACCU-OFFICES C	BCC-K1	52	CMB-M108NU-MA-SV	Main	8	70,000.0	208/230V/1-phase	0.13/0.13	1
ACCU-OFFICES D	BCC-M1	59	CMB-M1012NU-MA-SV	Main	12	78,000.0	208/230V/1-phase	0.13/0.13	1
ACCU-38-41-44-45	BCC-N1	69	CMB-M108NU-MA-SV	Main	8	129,000.0	208/230V/1-phase	0.13/0.13	1
ACCU-01-02-03	BCC-O1	76	CMB-M106NU-MA-SV	Main	6	113,000.0	208/230V/1-phase	0.12/0.12	1

Notes & Options:
1 Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
2 For sub BC Controller CMB-P-NU-GB1 or -GB, the total connectable indoor unit capacity can be 126,000 BTUs or less. If two sub BC controllers are used, the total indoor unit capacity connected to BOTH sub BC controllers also cannot exceed 126,000 BTUs. For sub BC controller CMB-P1016NU-HB1 the total connectable indoor unit capacity can be 126,000 BTUs or less. However, if two sub controllers are used, and one of them is CMB-1016NU-HB1, the total indoor unit capacity connected to BOTH sub controllers must NOT exceed 168,000 BTUs.

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PRIOR TO FURNISHING SUBMITTAL, MC SHALL HAVE APPROVED VRF SYSTEM MANUFACTUER VISIT JOB SITE TO LAY OUT THE EXACT LOCATIONS & ACTUAL/EXACT REFRIGERANT PIPING RUNS TO/FROM EACH INDOOR/OUTDOOR UNITS & GENERATE FINAL COORDINATED SUBMITTAL FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD.
4. FOR OUTDOOR UNIT, PROVIDE TIE DOWN CLIPS FOR SUPPORT RAILS.
5. MC TO HAVE APPROVED VRF SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS (THY CURBS) FOR PROJECT. MC TO PROVIDE THY CURBS/SUPPORT RAILS TO GC AND GC TO INSTALL & FLASH WITH MC PRESENT.

VRF SYSTEM -SHUT OFF VALVE KIT SCHEDULES (BASIS: TRANE MITSUBISHI) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

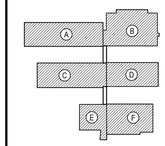
System Tag		ACCU-CAFE	ACCU-CAFE	ACCU-CAFE
Tag Reference		SVK-Q1	SVK-Q2	SVK-Q2
Nominal Data	M-NET Address	174	176	187
	Model Number	CMR-M100KT-NA	CMR-M100KT-NA	CMR-M100KT-NA
	Connected Capacity to SVK (BTU/h)	36,000.0	36,000.0	36,000.0
Electrical Data	Voltage / Phase	208/230V/1-phase	208/230V/1-phase	208/230V/1-phase
	MCA 208/230	0.38/0.44	0.38/0.44	0.38/0.44
	Mrel (lbs)	25.79	25.79	25.79

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.
3. PRIOR TO FURNISHING SUBMITTAL, MC SHALL HAVE APPROVED VRF SYSTEM MANUFACTUER VISIT JOB SITE TO LAY OUT THE EXACT LOCATIONS & ACTUAL/EXACT REFRIGERANT PIPING RUNS TO/FROM EACH INDOOR/OUTDOOR UNITS & GENERATE FINAL COORDINATED SUBMITTAL FOR REVIEW/APPROVAL PROCESS BY ENGINEER OF RECORD.
4. FOR OUTDOOR UNIT, PROVIDE TIE DOWN CLIPS FOR SUPPORT RAILS.
5. MC TO HAVE APPROVED VRF SYSTEM MANUFACTURER PROVIDE SUPPORT RAILS (THY CURBS) FOR PROJECT. MC TO PROVIDE THY CURBS/SUPPORT RAILS TO GC AND GC TO INSTALL & FLASH WITH MC PRESENT.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
MECHANICAL SCHEDULES

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No: 13-22-01-04-0-008-017

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.07

AREA A-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-VESTIBULE A1	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-JC T6B	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-VESTIBULE B1	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS

NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.

AREA B-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-PASSAGE 40E	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-PE OFFICE TOILET 40B	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-PE OFFICE STORAGE 40B	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-PASSAGE 40E	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-PE OFFICE TOILET 37B	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-PE OFFICE STORAGE 37B	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-WOMEN TOILET 95	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-MEN TOILET 96	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS

NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.

AREA C-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-WOMEN TOILET 56	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-MEN TOILET 57	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS
ECH-ELEC ROOM 14	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS

NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.

AREA D-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-GYM WING VESTIBULE 39A	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-ELEC ROOM 15D	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS

NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
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AREA E-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-VEST E2	ACBH0353C24W	3,000	300	480/3	4.3	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-VEST E1	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS

NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.

AREA F-ELECTRICAL CABINET HEATER SCHEDULES (BASIS: STELPRO) (EQUIPMENT TO BE FURNISHED & INSTALL BY MC)

ELECTRIC HEATERS — **STELPRO AS STD.**

TAG	MODEL	CAPACITY (W)	AIRFLOW (CFM)	VOLTS/PH	FLA (A)	ACCESSORIES / NOTES	THERMOSTAT
ECH-VEST E1	ACBH0253C24W	2,000	300	480/3	3.1	CBHTB24W, CBHDIS80A	BY OTHERS
ECH-JC 7	ACF1505C24W	1,500	160	480/1	3.8	WFDIS-30	BY OTHERS

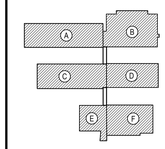
NOTES:
All disconnect switches shall be factory installed and wired.
All unit to have 24v control voltage

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. PROVIDE STARTER & DISCONNECT FOR EACH EQUIPMENT FOR MC TO PROVIDE EC AND EC TO INSTALL & POWER.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.
CHECK BY: U.F.

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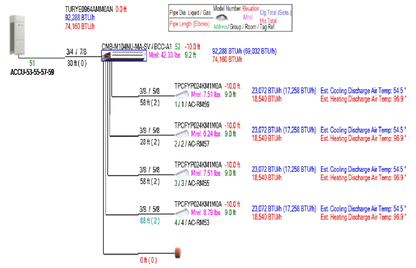
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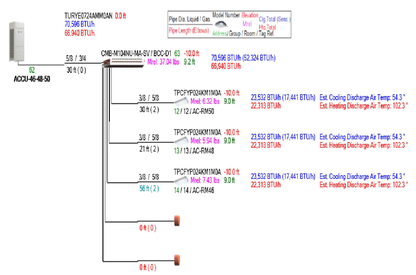
SED No. 13-22-01-04-0-008-017
DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE MECHANICAL SCHEDULES

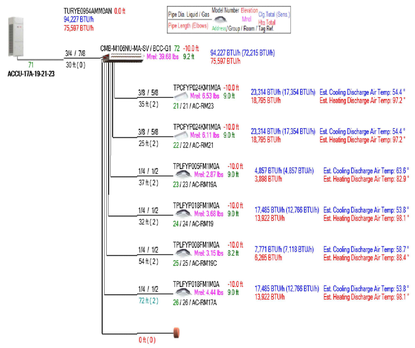
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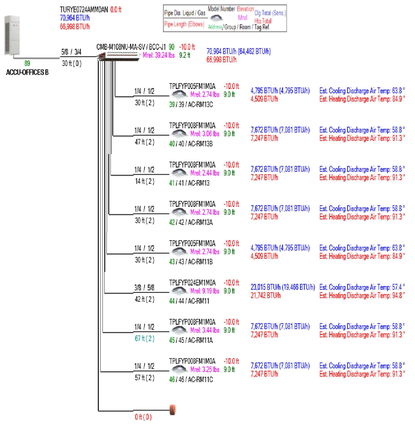
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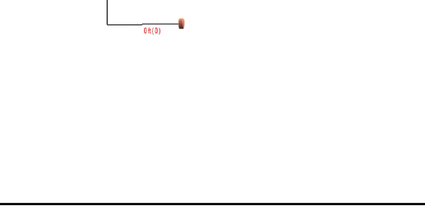
VRF SYSTEM -SCHEMATIC REFRIGERANT PIPING DIAGRAMS (BASIS: TRANE MITSUBISHI)
(EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

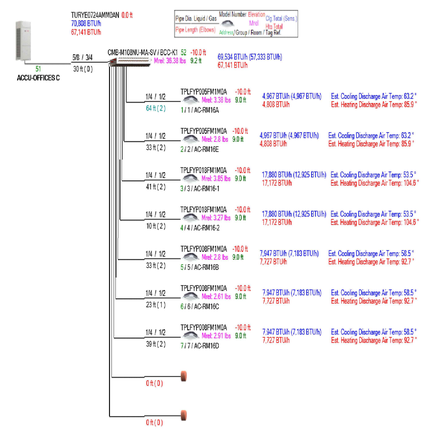


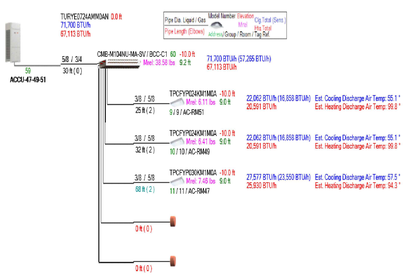


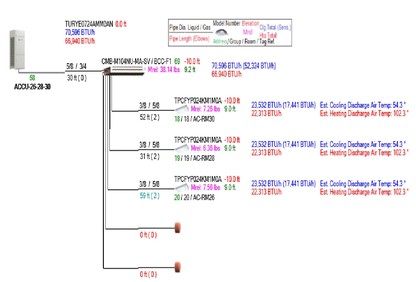


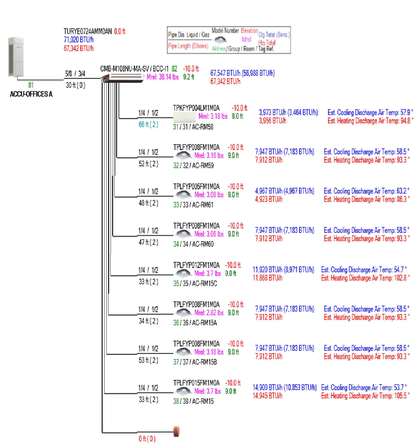


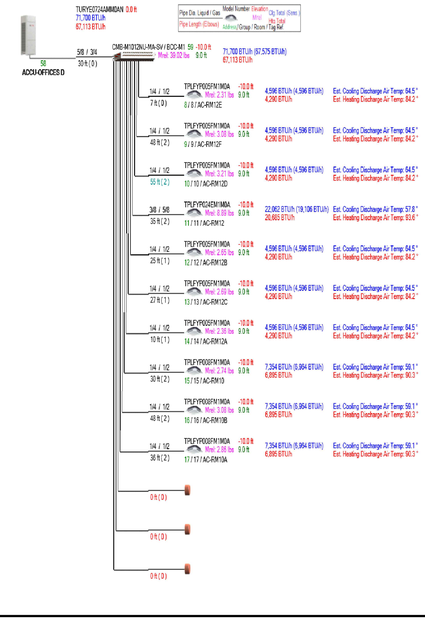








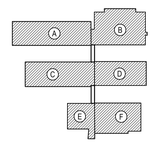




REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
MECHANICAL SCHEDULES

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

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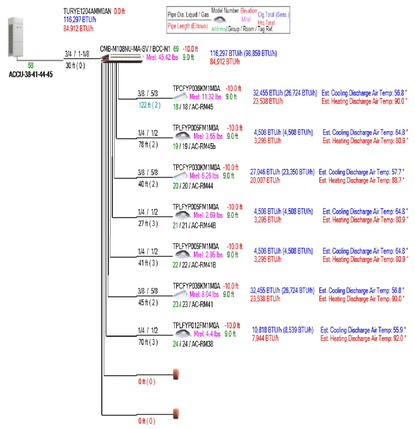
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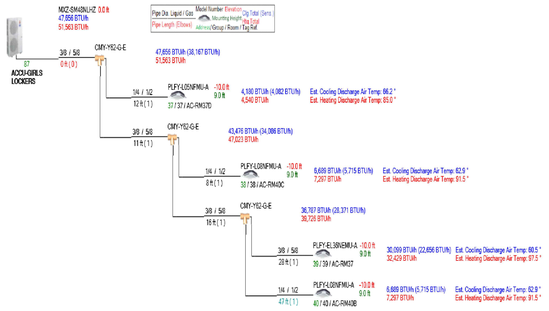
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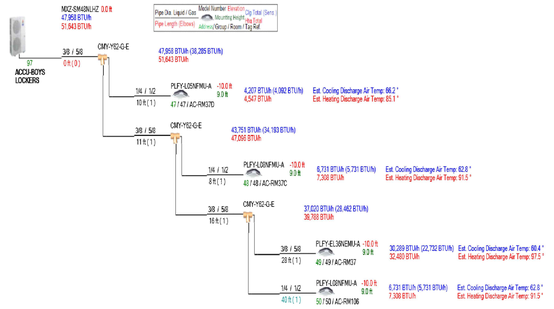
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DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	MECHANICAL SCHEDULES
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

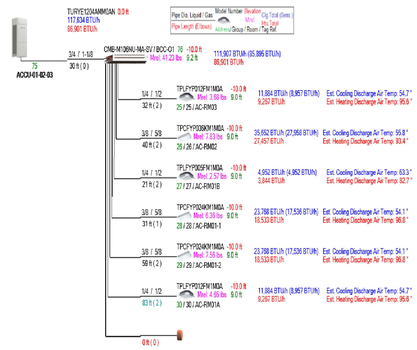
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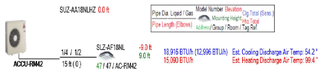
VRF SYSTEM -SCHEMATIC REFRIGERANT PIPING DIAGRAMS (BASIS: TRANE MITSUBISHI)
(EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

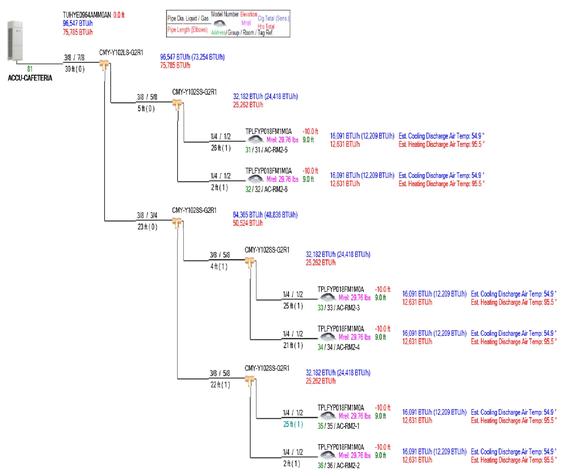


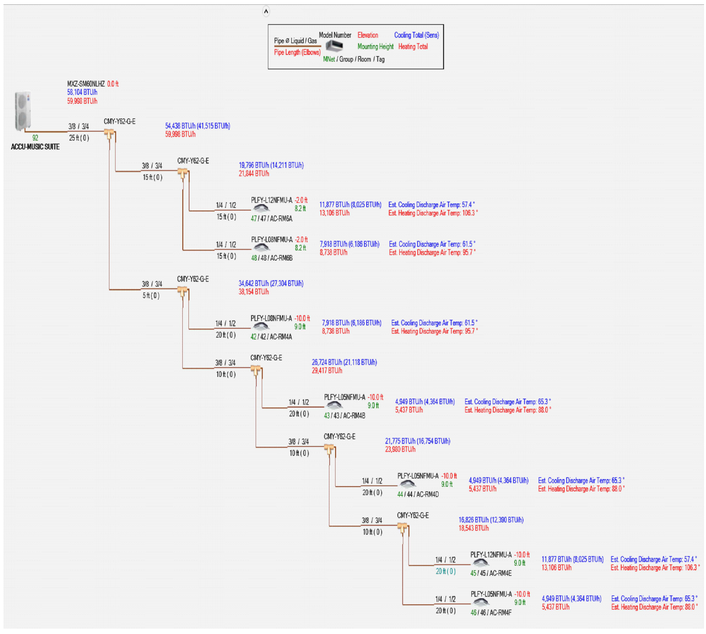








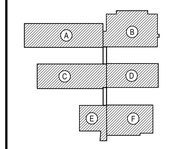




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KEY PLAN

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PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE

MECHANICAL
MECHANICAL SCHEDULES

DRAWING BY: U.F.

CHECK BY: U.F.

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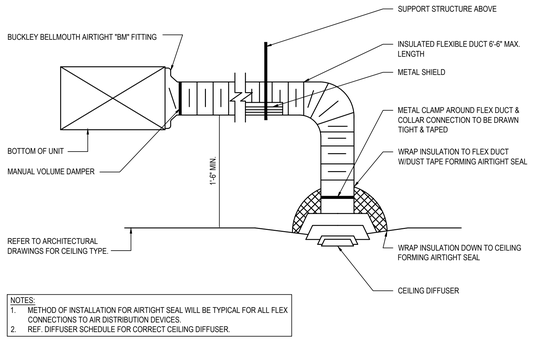
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	MECHANICAL SCHEDULES

SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

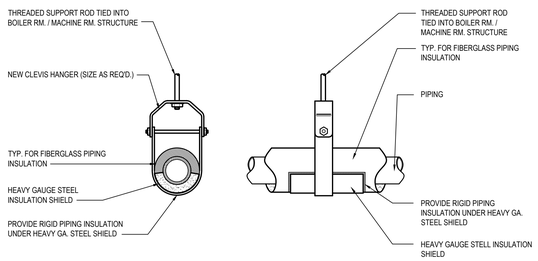
M6.10



NOTES:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL WILL BE TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.
2. REF. DIFFUSER SCHEDULE FOR CORRECT CEILING DIFFUSER.

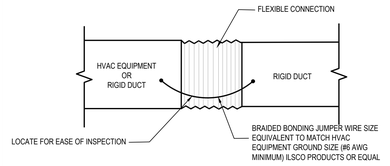
1 CEILING DIFFUSER DETAIL

SCALE: N.T.S.



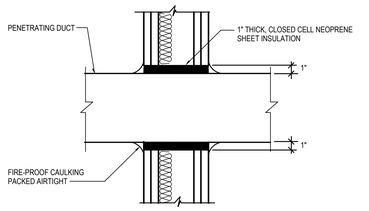
2 CLEVIS HANGER PIPING SUPPORT DETAIL

SCALE: N.T.S.



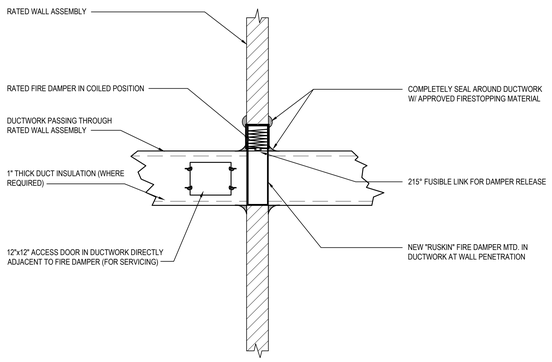
3 HVAC DUCT BONDING DETAIL

NTS



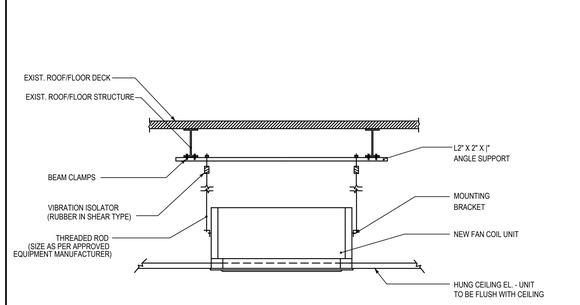
4 TYPICAL DUCT PENETRATION

SCALE: N.T.S.



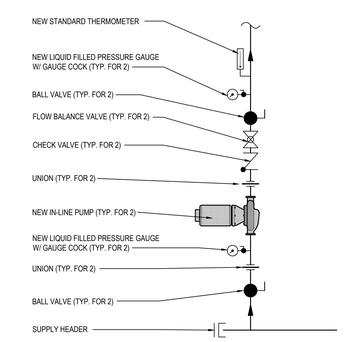
5 DUCT PENETRATION THROUGH RATED ASSEMBLY

SCALE: N.T.S.



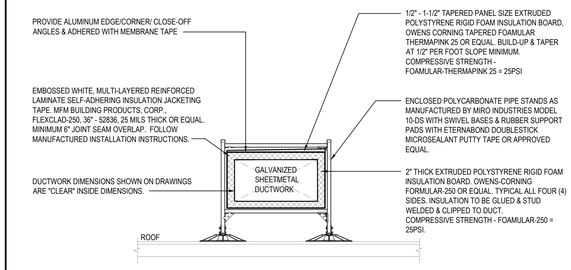
6 FLUSH MOUNTED CABINET HEATER DETAIL

SCALE: N.T.S.



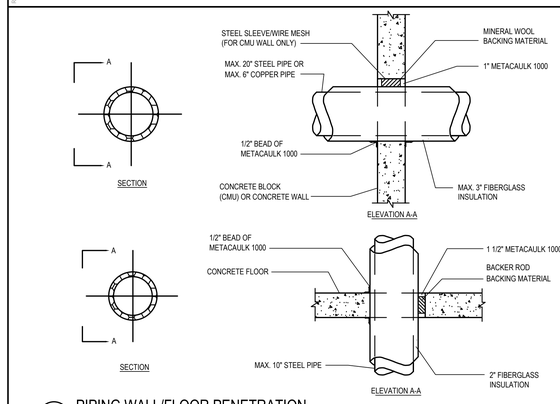
7 NEW IN-LINE CIRCULATOR PUMPS / TRIM

SCALE: N.T.S.



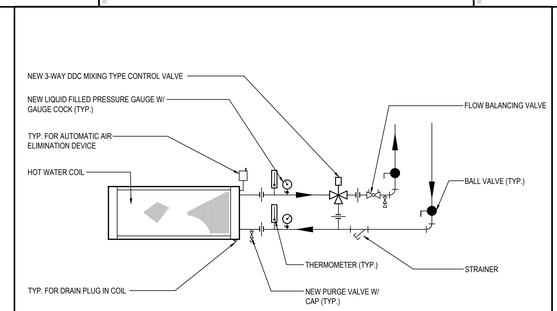
8 EXTERIOR DUCTWORK INSULATION WITH SUPPORTS

SCALE: N.T.S.



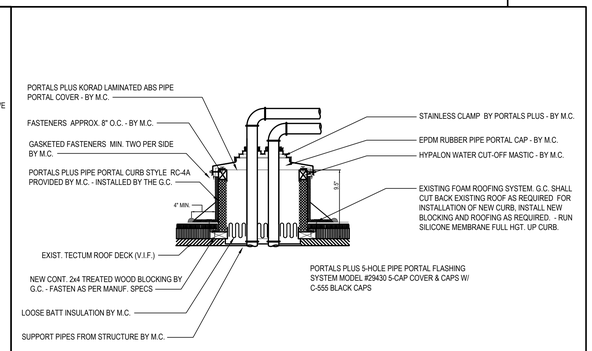
9 PIPING WALL/FLOOR PENETRATION

SCALE: N.T.S.



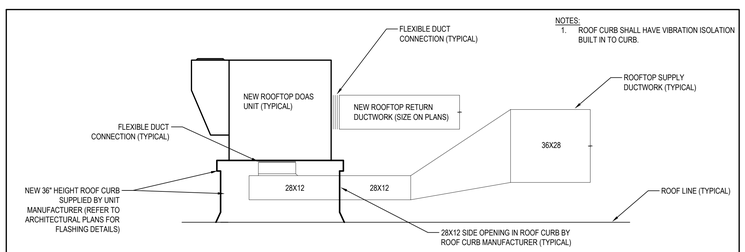
11 3 WAY HOT WATER / GLYCOL HOT WATER COIL DETAIL

SCALE: N.T.S.



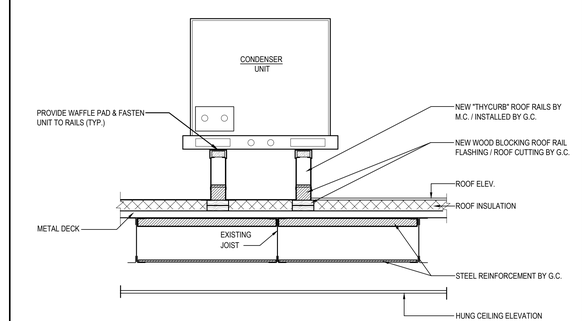
12 ROOF PIPING PENETRATION DETAIL

SCALE: N.T.S.



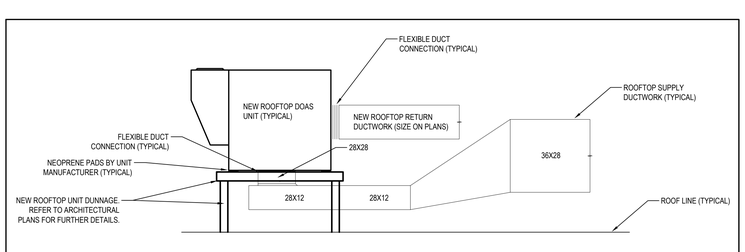
NEW ROOFTOP DOAS UNIT WITH 36" HEIGHT ROOF CURB-ROOFTOP DUCTWORK DETAIL

SCALE: NOT TO SCALE



13 CONDENSER UNIT AND SUPPORT

SCALE: N.T.S.



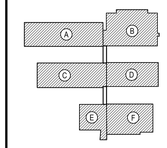
NEW ROOFTOP DOAS UNIT/DUNNAGE ROOFTOP DUCTWORK DETAIL

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REV.	DATE	ITEM

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CAPITAL IMPROVEMENTS - BOND PHASE - 1B
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DWG TITLE

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DWG TITLE	MECHANICAL DETAILS
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FILE No:	25-273A

M6.11

AREA "A"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
50	SQ.S CONE DIFFUSER	6	12x12	0-150	<20	SURFACE	2 DiffusersS	STEEL	-
56	SQ.S CONE DIFFUSER	8	12x12	101-175	<20	SURFACE	2 DiffusersS	STEEL	-
51,DS,DS,DF	SQ.S CONE DIFFUSER	6	24x24	0-150	<20	LAY-IN	2 DiffusersS	STEEL	-
51,DS,DS,DF	SQ.S CONE DIFFUSER	8	24x24	151-275	<20	LAY-IN	2 DiffusersS	STEEL	-
51,DS,DS,DF	SQ.S CONE DIFFUSER	10	24x24	276-425	<20	LAY-IN	2 DiffusersS	STEEL	-
51,DS,DS,DF	SQ.S CONE DIFFUSER	12	24x24	426-600	<20	LAY-IN	2 DiffusersS	STEEL	-
51,DS,DS,DF	SQ.S CONE DIFFUSER	15	24x24	600-850	<20	LAY-IN	2 DiffusersS	STEEL	-
56	RETURN GRILLE	12x12	-	0-350	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
RS,RG,RS,RG,RS,D	RETURN GRILLE	24x24	24x24	0-800	<20	LAY-IN	AC30	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. FINISH SHALL BE ARCTIC WHITE.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. INSTALL DUAL (4) WAY DIFFUSER UNLESS OTHERWISE NOTED. PROVIDE BLANK OFF BAFFLES FOR DIFFUSERS SHOWN TO HAVE 3 WAY AND 2-WAY PATTERNS.
8. INCREASE NECK SIZES AS REQUIRED TO COMPENSATE FOR BLANKED-OFF AREA.
9. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "B"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
AG,AE	SQ.S CONE DIFFUSER	6	12x12	0-150	<20	SURFACE	2 DiffusersS	STEEL	-
AG,AE	SQ.S CONE DIFFUSER	8	12x12	101-175	<20	SURFACE	2 DiffusersS	STEEL	-
A7	SQ.S CONE DIFFUSER	6	24x24	0-150	<20	LAY-IN	2 DiffusersS	STEEL	-
A7	SQ.S CONE DIFFUSER	8	24x24	151-275	<20	LAY-IN	2 DiffusersS	STEEL	-
A7	SQ.S CONE DIFFUSER	10	24x24	276-425	<20	LAY-IN	2 DiffusersS	STEEL	-
A7	SQ.S CONE DIFFUSER	12	24x24	426-600	<20	LAY-IN	2 DiffusersS	STEEL	-
A7	SQ.S CONE DIFFUSER	15	24x24	600-850	<20	LAY-IN	2 DiffusersS	STEEL	-
E1,E2	CIRCULAR DIFFUSER	24	46.25	0-1200	<20	SURFACE	C27	STEEL	-
E1	SUPPLY REGISTER	6x6	-	0-125	<20	SURFACE	20L	STEEL	-
C2	SUPPLY REGISTER	12x6	-	0-145	<20	SURFACE	20L	STEEL	-
C3	SUPPLY REGISTER	12x8	-	0-365	<20	SURFACE	20L	STEEL	-
EX,CS,EO	SUPPLY REGISTER	10x6	-	0-200	<20	SURFACE	20L	STEEL	-
B3	RETURN GRILLE	22x22	24x24	0-900	20	LAY-IN	AC30	STEEL, 3/4" BLADE SPACING	-
RT,RG,D	RETURN GRILLE	12x12	-	0-350	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
B5	RETURN GRILLE	20x16	-	0-525	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
F1	RETURN GRILLE	48x24	-	0-1600	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
F1	RETURN GRILLE	48x48	-	0-2100	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
A1	SPIRAL DUCT SUPPLY REGISTER	20"	26x16	0-680	<20	SURFACE	0/2320	STEEL, 3/4" BLADE SPACING	-
A2	SPIRAL DUCT SUPPLY REGISTER	8"	12x8	0-145	<20	SURFACE	0/2320	STEEL, 3/4" BLADE SPACING	-
A1,A5	SPIRAL DUCT SUPPLY REGISTER	14"	20x10	0-435	<20	SURFACE	0/2320	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. FINISH SHALL BE ARCTIC WHITE.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. PROVIDE SPIRAL DUCT SUPPLY REGISTERS WITH DAMPERS.
8. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "C"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
SG,AG,SG,AG,SG,EGP	SQ.S CONE DIFFUSER/ EGGCRATE	6"	24x24	0-150	<20	SURFACE	2 DiffusersS	STEEL	-
C2	SPIRAL DUCT SUPPLY REGISTER	8"	12x12	101-175	<20	SURFACE	0/2320	STEEL	-
AR	RETURN GRILLE	14x14	-	0-300	<20	SURFACE	20L	STEEL	-
AS,AS,AS,AS,AS	RETURN GRILLE	28x10	-	0-525	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
RS,RG,RS,RG,RS	RETURN GRILLE	24x24	-	0-800	<20	LAY-IN	AC30	STEEL, 3/4" BLADE SPACING	-
HG	RETURN GRILLE	14x14	-	0-300	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. RETURN GRILLES TO BE 3/4" BLADE SPACING.
6. PROVIDE SPIRAL DUCT SUPPLY REGISTERS WITH DAMPERS.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "D"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
E1/S,RS,RG,S,E1/LG,E1/D	DIRECTIONAL DIFFUSER	6x6	-	0-125	<20	SURFACE	DF-41	STEEL	-
E1	DIRECTIONAL DIFFUSER	9x9	-	126-225	<20	SURFACE	DF-41	STEEL	-
E1/A,FC	DIRECTIONAL DIFFUSER	12x12	-	226-400	<20	SURFACE	DF-41	STEEL	-
LG,FC,RS,FC,RS,R	RETURN GRILLE	12x12	-	0-300	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
BL/LG	RETURN GRILLE	14x14	-	301-550	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
FL/VD	RETURN GRILLE	24x24	-	551-850	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. SHOWN TO HAVE 3 WAY AND 2-WAY PATTERNS.
3. FINISH SHALL BE ARCTIC WHITE.
4. RETURN GRILLES TO BE 3/4" BLADE SPACING.
5. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "E"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
J1,D	SQ.S CONE DIFFUSER	6	24x24	0-150	<20	LAY-IN	2 DiffusersS	STEEL	-
J1,D	SQ.S CONE DIFFUSER	8	24x24	151-275	<20	LAY-IN	2 DiffusersS	STEEL	-
J1,D	SQ.S CONE DIFFUSER	10	24x24	276-425	<20	LAY-IN	2 DiffusersS	STEEL	-
J1,D	SQ.S CONE DIFFUSER	12	24x24	425-600	<20	LAY-IN	2 DiffusersS	STEEL	-
J1,D	SQ.S CONE DIFFUSER	15	24x24	600-850	<20	LAY-IN	2 DiffusersS	STEEL	-
FC,EC	RETURN GRILLE	24x24	24x24	0-900	<20	LAY-IN	AC30	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. FINISH SHALL BE ARCTIC WHITE.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. INSTALL DUAL (4) WAY DIFFUSER UNLESS OTHERWISE NOTED. PROVIDE BLANK OFF BAFFLES FOR DIFFUSERS SHOWN TO HAVE 3 WAY AND 2-WAY PATTERNS.
INCREASE NECK SIZES AS REQUIRED TO COMPENSATE FOR BLANKED-OFF AREA.
8. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "F"-FIRST FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
Y1,Y5,Y6	SQ.S CONE DIFFUSER	6	12x12	0-100	<20	SURFACE	2 DiffusersS	STEEL	-
Y3,Y4,Y5,Y6	SQ.S CONE DIFFUSER	8	12x12	101-175	<20	SURFACE	2 DiffusersS	STEEL	-
Y2	SUPPLY REGISTER	20x16	-	0-1250	<20	SURFACE	20L	STEEL	-
Y1,L1,L2,L3	SUPPLY REGISTER	20x10	-	0-700	<20	SURFACE	20L	STEEL	-
Z1	RETURN GRILLE	16x20	-	0-1825	<15	SURFACE	30-0	STEEL, 3/4" BLADE SPACING	-
RL/RL/R	RETURN GRILLE	12x12	-	0-300	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
WS,WR	RETURN GRILLE	30x10	-	0-345	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
Z2	RETURN GRILLE	42x28	-	0-1400	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
W2	RETURN GRILLE	28x26	-	0-950	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
W3	RETURN GRILLE	42x30	-	0-600	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
L3	SPIRAL DUCT SUPPLY REGISTER	8"	10x4	0-100	20	SURFACE	0/2320	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. FINISH SHALL BE ARCTIC WHITE.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. PROVIDE SPIRAL DUCT SUPPLY REGISTERS WITH DAMPERS.
8. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

AREA "F"-BASEMENT FLOOR-AIR OUTLET SCHEDULES (BASIS: ANEMOSTAT) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

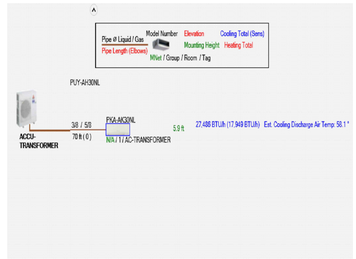
ANEMOSTAT AIR OUTLET SCHEDULE

DESIGNATION	DESCRIPTION	NECK SIZE/ DUCT DIA.	FRAME SIZE	CFM RANGE	MAX NC	BORDER TYPE	MANUFACTURER/ MODEL	COMMENTS	NOTE
Y1,Y6	SQ.S CONE DIFFUSER	6	12x12	0-100	<20	SURFACE	2 DiffusersS	STEEL	-
Y1,Y6	SQ.S CONE DIFFUSER	8	12x12	101-175	<20	SURFACE	2 DiffusersS	STEEL	-
Z7,Z8	RETURN GRILLE	12x12	-	0-300	<20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-
Z9	RETURN GRILLE	16x14	-	0-1050	20	SURFACE	30-45	STEEL, 3/4" BLADE SPACING	-

NOTES:
1. DIFFUSERS SHALL BE SUITABLE FOR SURFACE MOUNTED OR SUSPENDED GRID SYSTEMS.
2. DIFFUSERS WITH SIX STAMPED CONES - NO MITER CORNERS.
3. UNIFORM, 3 CONE APPEARANCE REGARDLESS OF NECK SIZE.
4. REMOVABLE INNER CORE ASSEMBLY WITHOUT USE OF TOOLS.
5. FINISH SHALL BE ARCTIC WHITE.
6. RETURN GRILLES TO BE 3/4" BLADE SPACING.
7. FOR ADDITIONAL INFORMATION, PLEASE CONTACT YANNI BANAKOS (718.913.8520)

NOTES:
1. COLOR TO BE SELECTED BY ARCHITECT OF RECORD DURING SUBMITTAL PHASE.
2. PROVIDE CUSTOM COLOR.
3. MC TO INSTALL IN ACCORDANCE WITH APPROVED AIR OUTLET MANUFACTURER'S REQUIREMENTS.

REFRIGERANT PIPING SCHEMATIC PIPING DIAGRAM FOR AC-TRANSFORMER/ACCU-TRANSFORMER VRF SYSTEM



AIR OUTLET SPECIFICATIONS (BASIS: ANEMOSTAT) (EQUIPMENT FURNISHED & INSTALLED BY MC)

MODEL ECO (OR APPROVED EQUIVALENT) SPECIFICATIONS:

MODEL ECO SUPPLY GRILLES
ARCHITECT'S CHOICE - SPECIFICATION
(48" MAXIMUM WIDTH)

SPIRAL DUCT SUPPLY GRILLES SHALL BE ANEMOSTAT MODEL ECO20H AS SCHEDULED AND SHOWN ON THE PLANS. THE SUPPLY GRILLES SHALL BE DESIGNED FOR DIRECT ATTACHMENT TO EXPOSED ROUND OR OVAL DUCTS WITHOUT THE USE OF TRANSITIONS OR SADDLES.

GRILLES SHALL BE DOUBLE DEFLECTION TYPE WITH HORIZONTAL FRONT BLADES AND REAR VERTICAL BLADES. GRILLE DESIGN SHALL INCLUDE FRONT BLADES LOCATED AS TO FOLLOW THE ARC OR RADIUS OF THE DUCT IN WHICH IT IS INSTALLED. FLAT BLADE CORES ARE NOT ACCEPTABLE. REAR VERTICAL BLADES SHALL PROVIDE A STRAIGHTENING EFFECT AND ALLOW FOR ADJUSTABLE AIR SPREAD CONTROL. GRILLES SHALL INCLUDE AN OUTER FRAME SPECIFICALLY FORMED AND ROLLED FOR THE INSTALLED DUCT DIAMETER AND SHALL INCLUDE FACTORY APPLIED GASKETS. GRILLES SHALL BE CONSTRUCTED OF STEEL OR ALUMINUM MATERIALS AS SCHEDULED. BLADES (3/4" CENTERS) SHALL BE INDIVIDUALLY ADJUSTABLE AND DESIGNED TO MINIMIZE NOISE AND PRESSURE LOSS, AND SHALL CONSIST OF EITHER AN EXTRUDED ALUMINUM OR ROLL FORMED, CLOSED PROFILE. BLADES SHALL ROTATE SMOOTHLY WITHOUT BENDING AND INCLUDE A FRICTION DESIGN TO HOLD BLADE POSITION, AND PREVENT RATTLING. FRAME MOUNTING HOLES SHALL BE COUNTERSUNK FOR OVAL HEAD SCREWS, PROVIDED BY THE GRILLE MANUFACTURER. WHERE SCHEDULED, PROVIDE OPTIONAL FACTORY INSTALLED DIVERTER-DAMPER FOR AIR VOLUME CONTROL. DIVERTER-DAMPER SHALL BE FACE OPERATED USING 5/32" HEX KEY.

FINISH SHALL BE BAKED-ON ANEMOSTAT ARCTIC WHITE OR CUSTOM COLOR AS SPECIFIED BY THE ARCHITECT.

MODEL ECO SUPPLY GRILLES
SPECIFICATION

SPIRAL DUCT SUPPLY GRILLES SHALL BE ANEMOSTAT MODEL ECO AS SCHEDULED AND SHOWN ON THE PLANS. THE SUPPLY GRILLES SHALL BE DESIGNED FOR DIRECT ATTACHMENT TO EXPOSED ROUND OR OVAL DUCTS WITHOUT THE USE OF TRANSITIONS OR SADDLES.

GRILLES SHALL BE SINGLE DEFLECTION (MODEL ECO10) OR DOUBLE DEFLECTION TYPE (MODEL ECO20), AND SHALL INCLUDE AN OUTER FRAME SPECIFICALLY FORMED AND ROLLED FOR THE INSTALLED DUCT DIAMETER WITH FACE DIRECTIONAL BLADES HORIZONTAL OR VERTICAL AS DETAILED. FRAME SHALL INCLUDE FACTORY APPLIED GASKETS. GRILLES SHALL BE CONSTRUCTED OF STEEL OR ALUMINUM MATERIALS AS SCHEDULED. BLADES (3/4" CENTERS) SHALL BE INDIVIDUALLY ADJUSTABLE AND DESIGNED TO MINIMIZE NOISE AND PRESSURE LOSS, AND SHALL CONSIST OF EITHER AN EXTRUDED ALUMINUM OR ROLL FORMED, CLOSED PROFILE. BLADES SHALL ROTATE SMOOTHLY WITHOUT BENDING AND INCLUDE A FRICTION DESIGN TO HOLD BLADE POSITION, AND PREVENT RATTLING. FRAME MOUNTING HOLES SHALL BE COUNTERSUNK FOR OVAL HEAD SCREWS, PROVIDED BY THE GRILLE MANUFACTURER. WHERE SCHEDULED, PROVIDE OPTIONAL FACTORY INSTALLED DIVERTER-DAMPER FOR AIR VOLUME CONTROL. DIVERTER-DAMPER SHALL BE FACE OPERATED USING 5/32" HEX KEY.

PERFORATED RETURN GRILLES SHALL BE ANEMOSTAT MODEL ECO-P AS SCHEDULED AND SHOWN ON THE PLANS, AND SHALL MATCH SUPPLY GRILLES IN CONSTRUCTION AND APPEARANCE. GRILLES SHALL INCLUDE FRAME MOUNTING HOLES AND GASKETS. PERFORATIONS SHALL HAVE A PATTERN OF 3/16" DIAMETER HOLES ON 1/4" STAGGERED CENTERS WITH 50% FREE AREA. PROVIDE FACTORY ATTACHED OPPOSED BLADE VOLUME CONTROL DAMPERS AS REQUIRED.

FINISH SHALL BE BAKED-ON ANEMOSTAT ARCTIC WHITE OR CUSTOM COLOR AS SPECIFIED BY THE ARCHITECT.

MODEL 20L (OR APPROVED EQUIVALENT) SPECIFICATIONS:

3/4" BLADE SPACING
SINGLE OR DOUBLE DEFLECTION SUPPLY GRILLES AND REGISTERS SHALL BE ANEMOSTAT MODEL 10 (SINGLE DEFLECTION) OR MODEL 20 (DOUBLE DEFLECTION), MANUFACTURED FROM (STEEL, ALUMINUM, STAINLESS STEEL) WITH 3/4" BLADE SPACING AND AS SCHEDULED.

1/2" BLADE SPACING
SINGLE OR DOUBLE DEFLECTION SUPPLY GRILLES AND REGISTERS SHALL BE ANEMOSTAT MODEL 15 (SINGLE DEFLECTION) OR MODEL 25 (DOUBLE DEFLECTION), MANUFACTURED FROM (STEEL, ALUMINUM, STAINLESS STEEL) WITH 1/2" BLADE SPACING AND AS SCHEDULED.

THE GRILLES/REGISTERS SHALL CONSIST OF AN OUTER BORDER OR FRAME, WITH FACE DIRECTIONAL BLADES PARALLEL TO THE (LONG, SHORT) DIMENSION AS DETAILED. BLADES SHALL BE INDIVIDUALLY ADJUSTABLE AND DESIGNED TO MINIMIZE NOISE AND PRESSURE LOSS, AND SHALL CONSIST OF EITHER AN EXTRUDED ALUMINUM OR ROLL FORMED, CLOSED PROFILE. BLADES SHALL ROTATE SMOOTHLY WITHOUT BENDING AND INCLUDE A FRICTION DESIGN CONSISTING OF TENSION WIRE TO HOLD BLADE POSITION, AND PREVENT RATTLING. FRAME MOUNTING HOLES SHALL BE COUNTERSUNK FOR OVAL HEAD SCREWS, PROVIDED BY THE GRILLE MANUFACTURER.

WHERE SCHEDULED AND AS SHOWN, PROVIDE OPTIONAL (STEEL, ALUMINUM, STAINLESS STEEL) FACE OPERATED OPPOSED BLADE VOLUME CONTROL DAMPERS. INCLUDE OPTIONAL GRILLE FRAME GASKETING OR MODEL RC REMOVABLE CORE AUXILIARY FRAMES IF SCHEDULED.

FINISH SHALL BE BAKED-ON ANEMOSTAT ARCTIC WHITE OR CUSTOM COLOR AS SPECIFIED BY THE ARCHITECT.

MODEL C27 (OR APPROVED EQUIVALENT) SPECIFICATIONS:

CONTRACTOR SHALL FURNISH AND INSTALL ANEMOSTAT C-27 AIR DIFFUSERS AS MANUFACTURED BY ANEMOSTAT PRODUCTS DIVISION AT EACH POINT INDICATED ON THE PLANS. THESE AIR DIFFUSERS ARE TO CONSIST OF FOUR EXPANDING AND DIVERGING HOLLOW CONES WITH CLOSED BEADS. THE CONES SHALL BE ARRANGED TO PROVIDE A MINIMUM OF THREE AIR PATHS, WHICH SHALL SIMULTANEOUSLY DIFFUSE THE AIR IN THE OCCUPIED ZONE WITHIN THE LIMITS OF 20 TO 50 FPM, AND ASPIRATE ROOM AIR INTO THE PASSAGEWAYS IN A VOLUME EQUAL TO 20 TO 30 PERCENT OF THE SPECIFIED DISCHARGE VOLUME.

TURNING THE SMALLEST CONE SHALL RAISE OR LOWER THE NEXT TO LARGEST CONE TO CHANGE THE AIR DISCHARGE PATTERN FROM HORIZONTAL TO DOWNWARD PROJECTION DISCHARGE. THE INNER ASSEMBLY SHALL BE REMOVABLE FROM THE OUTER CONE AFTER RELEASE OF A SPRING LOCK BY A TWIST OF THE INNER CONES.

THE AIR DIFFUSER SHALL BE STEEL, PAINTED ARCTIC WHITE OR CUSTOM COLOR.

MODEL D (OR APPROVED EQUIVALENT) SPECIFICATIONS:

CEILING DIFFUSERS SHALL BE DIRECTIONAL TYPE MODEL D AS MANUFACTURED BY ANEMOSTAT, AND SHALL HAVE A SQUARE OR RECTANGULAR NECK. DIFFUSERS SHALL HAVE A FIXED, HORIZONTAL AIR DISCHARGE PATTERN, AND SHALL BE CONFIGURED WITH A 1,2, 3 OR 4 WAY CORE / DISCHARGE PATTERN AS SCHEDULED. THE DIFFUSER CORE SHALL BE REMOVABLE, WITHOUT TOOLS, FOR CLEANING OR RE-CONFIGURING THE SPACE AIR DISTRIBUTION. NO SCREW HOLES SHALL BE VISIBLE. FOR UNITS REQUIRING AN ADJUSTABLE AIR DISCHARGE PATTERN FROM HORIZONTAL TO VERTICAL PROJECTION, MODEL D PATTERN FLAPS SHALL BE FACTORY INSTALLED IN THE DIFFUSER AND ALLOW FOR FIELD ADJUSTMENT.

DIFFUSERS SHALL BE CONSTRUCTED FROM STEEL, ALUMINUM, OR 304 STAINLESS STEEL AS SCHEDULED. STEEL COMPONENTS / HARDWARE REQUIRED FOR DESIGN INTEGRITY ARE ACCEPTABLE FOR ALUMINUM CONSTRUCTION.

ACCESSORIES SHALL BE PROVIDED AS REQUIRED AND SCHEDULED TO MEET THE DESIGN INTENT. MODEL SRA SQUARE TO ROUND DUCT ADAPTERS SHALL BE USED IN TRANSITIONING TO ROUND DUCT. ADAPTERS SHALL BE OF SUFFICIENT HEIGHT TO INCLUDE OPPOSED BLADE VOLUME CONTROL DAMPERS, AND EQUALIZING DEFLECTORS AS SCHEDULED. DAMPERS SHALL BE ADJUSTABLE FROM THE ROOM SIDE BY REMOVING, WITHOUT TOOLS, THE INNER CORE ASSEMBLY. MODEL TRV THROW REDUCING VANES SHALL BE FACTORY PROVIDED AND ATTACHED TO THE CORE, IF INDICATED, TO DIRECT AIR OUT THE CORNERS OF THE DIFFUSER.

THE MANUFACTURER SHALL PROVIDE PERFORMANCE DATA OBTAINED IN ACCORDANCE WITH CURRENT ANSI/ASHRAE STANDARD 70.

THE BAKED-ON FINISH SHALL BE ANEMOSTAT ARCTIC WHITE, OR COLOR AS SCHEDULED. IF CUSTOM, A SAMPLE COLOR CHIP SHALL BE PROVIDED TO THE DIFFUSER MANUFACTURER.

MODEL AC & MODEL 30 (OR APPROVED EQUIVALENT) SPECIFICATIONS:

3ODELS 30 RETURNS

RETURN / EXHAUST GRILLES & REGISTERS SHALL BE ANEMOSTAT MODEL 30 (3/4" BLADE SPACING) OR MODEL 35 (1/2" BLADE SPACING) FIXED BLADE, NON-ADJUSTABLE GRILLES, MANUFACTURED FROM (STEEL, ALUMINUM, STAINLESS STEEL) AS SCHEDULED. PROVIDE SIZES AND MOUNTING TYPES AS SCHEDULED. FOR SURFACE MOUNTING APPLICATIONS, COUNTERSUNK MOUNTING HOLES SHALL BE PROVIDED IN THE BORDER, WITH OVAL HEAD SCREWS ALSO PROVIDED BY THE GRILLE MANUFACTURER.

BLADES SHALL BE ON 1/2" OR 3/4" SPACING, AND SHALL RUN HORIZONTAL OR VERTICAL (SHORT OR LONG DIMENSION) AS SHOWN. BLADES SHALL BE POSITIONED AT 0° OR 45° DEFLECTION ANGLES, AND HELD RIGIDLY FIXED IN PLACE BY REAR MULLIONS WELDED TO THE GRILLE FRAME. CORNERS SHALL BE WELDED OR STAKED FOR NEAT, UNIFORM MITERED CORNERS.

WHERE SCHEDULED, INCLUDE STEEL, ALUMINUM, OR STAINLESS STEEL OPPOSED BLADE VOLUME CONTROL DAMPERS.

PROVIDE A BAKED-ON, ARCTIC WHITE FINISH, OR CUSTOM COLOR AS SELECTED BY THE ARCHITECT. (OPTIONAL) PROVIDE A SATIN POLISH FINISH ON EXPOSED SURFACES FOR ALL STAINLESS STEEL UNITS.

MODEL AC
LAY-IN TYPE CEILING RETURN / EXHAUST GRILLES & REGISTERS SHALL BE ANEMOSTAT MODEL AC30 (3/4" BLADE SPACING) OR AC35 (1/2" BLADE SPACING) FIXED BLADE, NON-ADJUSTABLE GRILLES, MANUFACTURED FROM (STEEL, ALUMINUM, STAINLESS STEEL) AS SCHEDULED. PROVIDE SIZES AND MOUNTING TYPES AS SCHEDULED TO INTERFACE WITH THE SUSPENSION GRID SYSTEM AS SHOWN. GRILLES SHALL HAVE A NARROW BORDER DESIGN TO ENHANCE APPEARANCE AND MAXIMIZE CORE AREA. FULL-BORDERED SURFACE MOUNTED GRILLES SIZED FOR LAY-IN APPLICATIONS ARE NOT APPROVED.

BLADES SHALL BE ON 1/2" OR 3/4" SPACING, AND SHALL RUN PARALLEL TO THE LONG DIMENSION. BLADES SHALL BE POSITIONED AT 0° OR 45° DEFLECTION ANGLES, AND HELD RIGIDLY FIXED IN PLACE BY REAR MULLIONS WELDED TO THE GRILLE FRAME. CORNERS SHALL BE WELDED OR STAKED FOR NEAT, UNIFORM MITERED CORNERS.

WHERE SCHEDULED, INCLUDE STEEL, ALUMINUM, OR STAINLESS STEEL OPPOSED BLADE VOLUME CONTROL DAMPERS

NEW GLYCOL HOT WATER SYSTEM PLATE AND FRAME HEAT EXCHANGER (GLYPFHX-1) (BASIS: ARMSTRONG) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ARMSTRONG

Calculation	#4644-260922161642	*Reference*	4644-260922161642		AHRI 18.9K-A
Engineer	Justin Kocsuta			*Date*	9/22/2026
Customer				*Contact Person*	
Project				*E-mail*	
HEX Type	A355-150				

Calculated Parameters	**Unit**	**Hot Side**	**Cold Side**
Fluid		**Water**	**PropGlycol (40%)**
Flow Type		CounterCurrent	
Heat Load	BTU/h	3047270.93	
Inlet Temperature	°F	169.0	138.0
Outlet Temperature	°F	139.0	168.0
Mass Flow Rate	lb/h	101609.77	110279.28
Volumetric Flow Rate	GPM (US)	207.21	220.00
Total Pressure Drop	psi(g)	0.58	0.61
Fouling Factor	Hr/ft²°F/KBTU	0.0000	0.0000
Surface Margin	%	0.0	
LMTD	°F	1.0	
HTC (Available/Required)	BTU/ft² hr °F	414 / 414	

Properties of Fluid	**Unit**	**Hot Side**	**Cold Side**
Fluid		Water	PropGlycol (40%)
Liquid Viscosity	cP	0.4413	1.1109
Wall Viscosity	cP	0.4479	1.0867
Liquid Density	lb/ft³	61.13	62.51
Liquid Heat Capacity	BTU/lb °F	0.9997	0.9209
Liquid Thermal Conductivity	BTU/h ft °F	0.3804	0.2491

Specifications		**Unit**	**Hot Side**	**Cold Side**
HEX Denomination			A355-150-272-2000	
Number of Plates			272 / TLA	
Grouping			1x 135 + 0x0 / 1x 136 + 0x0	
Plate Thickness		in	0.0197	
Plate Material			AISI304	
Effective Area		ft²	7355.74	
Gasket Material			NBR/H 5/302 °F	
Frame	*Type*		IS, painted frame	
	Length	ft	7.28	
	Maximum Number of Plates		321	
	Assembly Measurement	in	36.4630	
Volume		ft³	27.65	27.86
Weight, empty/operating		lb	16289	19721
Paint Category			Category C2L	
Paint Color			Armstrong Red	
Connection	*Inlet*	F1: 14 INCH Flange Mild steel ANSI B16.5 #150	F3: 14 INCH Flange Mild steel ANSI B16.5 #150	
	Outlet	F4: 14 INCH Flange Mild steel ANSI B16.5 #150	F2: 14 INCH Flange Mild steel ANSI B16.5 #150	
Pressure Vessel Code			None	
Minimum Design Temperature		°F	32.0	
Maximum Design Temperature		°F	210.0	
Maximum Differential Pressure		psi(g)	150.0	
Maximum Test Pressure		psi(g)	195.0	
Maximum Design Pressure		psi(g)	150.0	150.0

HT.24.1.8.11

This Heat exchanger is certified by the AHRI Liquid to Liquid Heat Exchangers Certification Program, based on AHRI standard 400. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.com

AHRI CERTIFIED® www.ahridirectory.org Liquid to Liquid Heat Exchangers AHRI Standard 400

Classified as Business

ARMSTRONG

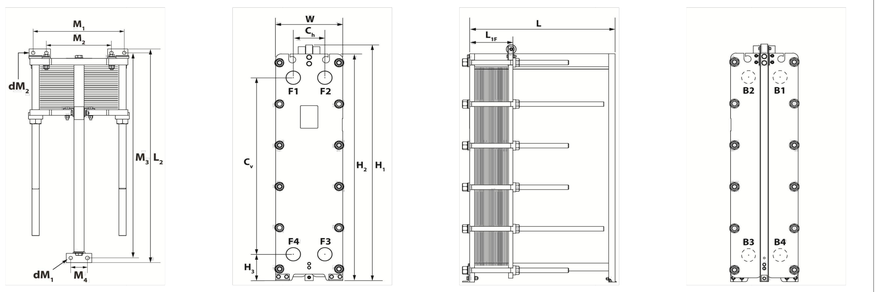
Calculation	#4644-260922161642	*Reference*	4644-260922161642		AHRI 18.9K-A
Engineer	Justin Kocsuta			*Date*	9/22/2026
Customer				*Contact Person*	
Project				*E-mail*	
HEX Type	A355-150				

Items						
Category	Product Code	Pcs.	Delivery Concept	Component		List Price pr. Item
HEX		1	R	A355-150-272-2000	Dollar	
HEX Price					Dollar	
Total Net Price					Dollar	
Validity of Quotation		30 days from date of quotation				
Comments						

AHRI CERTIFIED® www.ahridirectory.org Liquid to Liquid Heat Exchangers AHRI Standard 400

Classified as Business

HIGH LEVEL SCHEMATIC DRAWING - ONLY FOR ILLUSTRATIVE PURPOSES (VALUES IN TABLE BELOW ARE CORRECT)



Dimensions			
Cv	97.1654 [in]	**L1f**	41.9748 [in]
Ch	22.2441 [in]	**L**	87.4016 [in]
H1	133.2283 [in]	**L2**	92.3228 [in]
H2	129.2520 [in]	**M1**	38.1890 [in]
H3	15.0787 [in]	**M2**	N/A
W	44.0945 [in]	**M3**	86.4173 [in]
dM1/dM2	0.9843 / 0.9843 [in]	**M4**	6.2992 [in]
Tie Bolts	18 pcs. 1 3/8" (10x 1250 mm, 8x 2000 mm)		

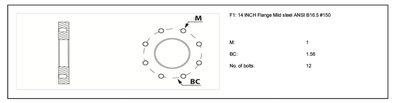
Data	**Hot Side**	**Cold Side**
Inlet Temp.	169.0 [°F]	138.0 [°F]
Outlet Temp.	139.0 [°F]	168.0 [°F]
Flow Rate	207.21 [GPM (US)]	220.00 [GPM (US)]
Pressure Loss	0.58 [psi(g)]	0.61 [psi(g)]
Fluid Media	Water	PropGlycol (40%)
Heat Load	3047270.93 [BTU/h]	
Weight, empty/operating	16289 [lb] / 19721 [lb]	

US Projection ARMSTRONG

Tolerances:	acc. to ISO 2768-c
Customer Name:	
Calculation:	4644-260922161642
Date of quotation:	9/22/2026
Armstrong PFX Select Version:	AHRI 18.9K-A
HEX Type:	A355-150
Design Code	None
Design Temperature:	210.0 [°F]
Design Pressure:	150.0 [psi(g)]
Test Pressure:	195.0 [psi(g)]

HT.24.1.8.11

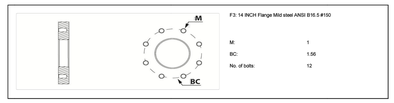
Connections — **Hot Side: Inlet**



F1: 14 INCH Flange Mild steel ANSI B16.5 #150

M:	1
BC:	1.56
No. of bolts:	12

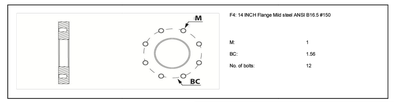
Connections — **Cold Side: Inlet**



F3: 14 INCH Flange Mild steel ANSI B16.5 #150

M:	1
BC:	1.56
No. of bolts:	12

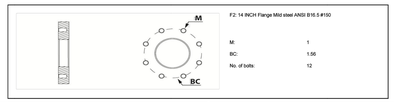
Hot Side: Outlet



F4: 14 INCH Flange Mild steel ANSI B16.5 #150

M:	1
BC:	1.56
No. of bolts:	12

Cold Side: Outlet



F2: 14 INCH Flange Mild steel ANSI B16.5 #150

M:	1
BC:	1.56
No. of bolts:	12

US Projection ARMSTRONG

HEX Type:	A355-150
Design Code	None
Design Temperature:	210.0 [°F]
Design Pressure:	150.0 [psi(g)]
Test Pressure:	195.0 [psi(g)]
Tolerances:	acc. to ISO 2768-c
Customer Name:	
Calculation:	4644-260922161642
Date of quotation:	9/22/2026
Armstrong PFX Select Version:	AHRI 18.9K-A

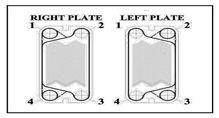
HT.24.1.8.11

Punch List

Danfoss

Solution A355-150-272-2000

Armstrong PFX Select 1.6.11
22-09-2026
4644-260922161642



Grouping	**Assembly Measurement (mm)**		
	Minimum	Nominal	Maximum
1x 135 + 0x0 / 1x 136 + 0x0	906	926	947
	Head dim	Follower dim	
	70 mm	70 mm	

Position	**Connection**
F1	14 INCH Flange Mild steel ANSI B16.5 #150
F4	14 INCH Flange Mild steel ANSI B16.5 #150
F3	14 INCH Flange Mild steel ANSI B16.5 #150
F2	14 INCH Flange Mild steel ANSI B16.5 #150

Punch List

Plate Number	Quantity	Comp Type	Punch Code	Plate Profile	Information	Pass no.	Part Code
FD	0	FRAME	F1234	XX	Head: FD, Configuration type Full	0	F1234
1	1	START	L1234	TL	R1234 PLATE TL	1	L1234TL
2-270	135	FLOW	R1234	TL	1234 PLATE: pair of TLTL	1	R1234TL
3-271	135	FLOW	L1234	TL	1234 PLATE: pair of TLTL	1	L1234TL
272	1	END	R0000	TL	R0000 PLATE TL	1	R0000TL
BD	0	FRAME	B0000	XX	Follower: BD	0	B0000

Pack List

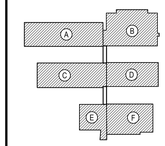
Comp Type	Quantity	Punch Code	Material	Part Code
START	1	L1234	0.5 mm AISI304	L1234TL
FLOW	135	R1234	0.5 mm AISI304	R1234TL
FLOW	135	L1234	0.5 mm AISI304	L1234TL
END	1	R0000	0.5 mm AISI304	R0000TL

SCHEDULE NOTES:
1. MC SHALL HAVE FACTORY-AUTHORIZED APPROVED MANUFACTURER'S REPRESENTATIVE PRESENT FOR START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
2. MC SHALL CONFIRM WITH APPROVED EQUIPMENT MANUFACTUER THE EXACT PIPING CONNECTIONS PRIOR TO START OF NEW WORK.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
MECHANICAL SCHEDULES

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

NOTICE

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SED No. 13-22-01-04-0-008-017

DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE MECHANICAL SCHEDULES

SCALE: AS NOTED

DATE: OCTOBER 22, 2026

BID PICK-UP: OCTOBER 26, 2026

FILE No: 25-273A

M6.13

NEW WATER TO WATER PLATE AND FRAME HEAT EXCHANGER (HWPFHX-1) (BASIS: ARMSTRONG) (EQUIPMENT TO BE FURNISHED & INSTALLED BY MC)

ARMSTRONG

Calculation	#4644-260928133326	*Reference*	4644-260928133326	AHRI 18.9K-A
Engineer	Justin Kocsuta		*Date*	9/28/2026
Customer			*Contact Person*	
Project			*E-mail*	
HEX Type	A56NG-150			

Calculated Parameters	**Unit**	**Hot Side**	**Cold Side**
Fluid		**Water**	**Water**
Flow Type		CounterCurrent	
Heat Load	BTU/h	3115755.07	
Inlet Temperature	°F	180.0	154.0
Outlet Temperature	°F	155.0	179.0
Mass Flow Rate	lb/h	124513.67	124527.00
Volumetric Flow Rate	GPM (US)	255.06	255.00
Total Pressure Drop	psi(g)	3.59	3.56
Fouling Factor	Hrft²°F/KBTU	0.0000	0.0000
Surface Margin	%	0.0	
LMTD	°F	1.0	
HTC (Available/Required)	BTU/ft² hr °F	1441 / 1441	

Properties of Fluid	**Unit**	**Hot Side**	**Cold Side**
Fluid		Water	Water
Liquid Viscosity	cP	0.3992	0.4048
Wall Viscosity	cP	0.4048	0.3992
Liquid Density	lb/ft³	60.85	60.89
Liquid Heat Capacity	BTU/lb °F	1.0010	1.0008
Liquid Thermal Conductivity	BTU/h ft °F	0.3838	0.3833

Specifications		**Unit**	**Hot Side**		**Cold Side**
HEX Denomination			A56NG-150-328-2000		
Number of Plates			328 / TLA		
Grouping			1x 163 + 0x0 / 1x 164 + 0x0		
Plate Thickness		in	0.0157		
Plate Material			AISI304		
Effective Area		ft²	2161.57		
Gasket Material			NBRH 5/302 °F		
Frame	*Type*		IS, painted frame		
	Length	ft	6.83		
	Maximum Number of Plates		363		
	Assembly Measurement	in	30.4110		
Volume		ft³	6.41		6.45
Weight, emptyloperating		lb	3290		4073
Paint Category			Category C2L		
Paint Color			Armstrong Red		
Connection	*Inlet*	F1: 4 INCH studded end connection ANSI B16.5 #150		F3: 4 INCH studded end connection ANSI B16.5 #150	
	Outlet	F4: 4 INCH studded end connection ANSI B16.5 #150		F2: 4 INCH studded end connection ANSI B16.5 #150	
Pressure Vessel Code			None		
Minimum Design Temperature		°F	32.0		
Maximum Design Temperature		°F	210.0		
Maximum Differential Pressure		psi(g)	150.0		
Maximum Test Pressure		psi(g)	195.0		
Maximum Design Pressure		psi(g)	150.0		150.0

H1.24-1.6.11

This Heat exchanger is certified by the AHRI Liquid to Liquid Heat Exchangers Certification Program, based on AHRI standard 400. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.com

AHRI CERTIFIED® www.ahridirectory.org Liquid to Liquid Heat Exchangers AHRI Standard 400

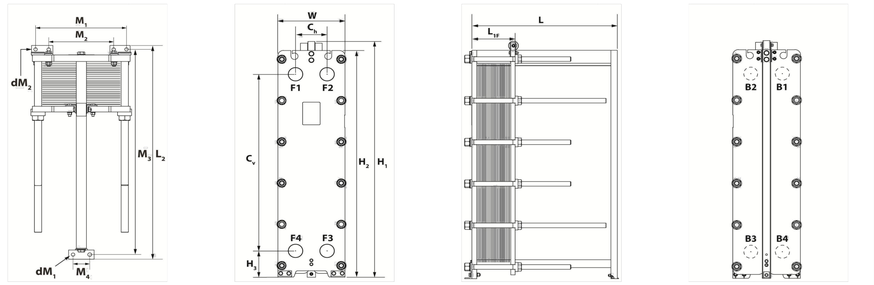
Classified as Business

ARMSTRONG

Calculation	#4644-260928133326	*Reference*	4644-260928133326	AHRI 18.9K-A
Engineer	Justin Kocsuta		*Date*	9/28/2026
Customer			*Contact Person*	
Project			*E-mail*	
HEX Type	A56NG-150			

Items						
Category	Product Code	Pcs.	Delivery Concept	Component		List Price pr. Item
HEX		1	C	A56NG-150-328-2000	Dollar	
HEX Price					Dollar	
Total Net Price					Dollar	
Validity of Quotation	30 days from date of quotation					
Comments						

HIGH LEVEL SCHEMATIC DRAWING - ONLY FOR ILLUSTRATIVE PURPOSES (VALUES IN TABLE BELOW ARE CORRECT)



Dimensions			
Cv	61.2598 [in]	**L1f**	33.4110 [in]
Ch	9.0551 [in]	**L**	82.0118 [in]
H1	79.5669 [in]	**L2**	84.3346 [in]
H2	76.8110 [in]	**M1**	14.9606 [in]
H3	8.3071 [in]	**M2**	N/A
W	19.4882 [in]	**M3**	82.7598 [in]
dM1/dM2	0.7087 / 0.7087 [in]	**M4**	N/A
Tie Bolts	10 pcs. 1 3/8" UNC (6x 1250 mm, 4x 2000 mm)		

Data	**Hot Side**	**Cold Side**
Inlet Temp.	180.0 [°F]	154.0 [°F]
Outlet Temp.	155.0 [°F]	179.0 [°F]
Flow Rate	255.06 [GPM (US)]	255.00 [GPM (US)]
Pressure Loss	3.59 [psi(g)]	3.56 [psi(g)]
Fluid Media	Water	Water
Heat Load	3115755.07 [BTU/h]	
Weight, emptyloperating	3290 [lb] / 4073 [lb]	

US Projection

ARMSTRONG

Tolerances:	acc. to ISO 2768-c
Customer Name:	
Calculation:	4644-260928133326
Date of quotation:	9/28/2026
Armstrong PFX Select Version:	AHRI 18.9K-A
HEX Type:	A56NG-150
Design Code	None
Design Temperature:	210.0 [°F]
Design Pressure:	150.0 [psi(g)]
Test Pressure:	195.0 [psi(g)]

H1.24-1.6.11

Connections — **Hot Side: Inlet**

F1: 4 INCH studded end connection ANSI B16.5 #150

M:	5/8
BC:	0.63
No. of bolts:	8
BC Offset, X-direction:	0.1969

Connections — **Cold Side: Inlet**

F3: 4 INCH studded end connection ANSI B16.5 #150

M:	5/8
BC:	0.63
No. of bolts:	8
BC Offset, X-direction:	0.1969

Hot Side: Outlet

F4: 4 INCH studded end connection ANSI B16.5 #150

M:	5/8
BC:	0.63
No. of bolts:	8
BC Offset, X-direction:	0.1969

Cold Side: Outlet

F2: 4 INCH studded end connection ANSI B16.5 #150

M:	5/8
BC:	0.63
No. of bolts:	8
BC Offset, X-direction:	0.1969

US Projection

ARMSTRONG

HEX Type:	A56NG-150
Design Code	None
Design Temperature:	210.0 [°F]
Design Pressure:	150.0 [psi(g)]
Test Pressure:	195.0 [psi(g)]
Tolerances:	acc. to ISO 2768-c
Customer Name:	
Calculation:	4644-260928133326
Date of quotation:	9/28/2026
Armstrong PFX Select Version:	AHRI 18.9K-A

H1.24-1.6.11

SCHEDULE NOTES:

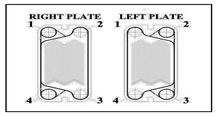
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2. MC SHALL CONFIRM WITH APPROVED EQUIPMENT MANUFACTUER THE EXACT PIPING CONNECTIONS PRIOR TO START OF NEW WORK.

Punch List

Danfoss

Solution A56NG-150-328-2000

Armstrong PFX Select 1.6.11
28-09-2026
4644-260928133326



Grouping	**Assembly Measurement (mm)**		
	Minimum	Nominal	Maximum
1x 163 + 0x0 / 1x 164 + 0x0	748	772	797
	Head dim	Follower dim	
	38.1 mm	38.1 mm	

Position	**Connection**
F1	4 INCH studded end connection ANSI B16.5 #150
F4	4 INCH studded end connection ANSI B16.5 #150
F3	4 INCH studded end connection ANSI B16.5 #150
F2	4 INCH studded end connection ANSI B16.5 #150

Punch List

Plate Number	Quantity	Comp Type	Punch Code	Plate Profile	Information	Pass no.	Part Code
FD	0	FRAME	F1234	XX	Head: FD, Configuration type Full	0	F1234
1	1	START	L1234	TL	R1234 PLATE TL	1	L1234TL
2-326	163	FLOW	R1234	TL	1234 PLATE: pair of TLTL	1	R1234TL
3-327	163	FLOW	L1234	TL	1234 PLATE: pair of TLTL	1	L1234TL
328	1	END	R0000	TL	R0000 PLATE TL	1	R0000TL
BD	0	FRAME	B0000	XX	Follower: BD	0	B0000

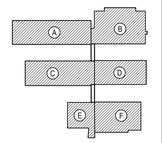
Pack List

Comp Type	Quantity	Punch Code	Material	Part Code
START	1	L1234	0.4 mm AISI304	L1234TL
FLOW	163	R1234	0.4 mm AISI304	R1234TL
FLOW	163	L1234	0.4 mm AISI304	L1234TL
END	1	R0000	0.4 mm AISI304	R0000TL

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
MECHANICAL SCHEDULES

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No. 13-22-01-04-0-008-017

DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273A

M6.14

ELECTRICAL CONSTRUCTION NOTES (NOT ALL APPLY):

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS. , ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. DIVISION 26 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.
5. DIVISION 26 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. DIVISION 26 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
7. DIVISION 26 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
8. THE DIVISION 26 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
11. DIVISION 26 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.
13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
19. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.
20. ALL WIRING TO BE 18*12+1#12(N)+1#12(G)-¾"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED). UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
21. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
22. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
23. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PANT OR EQUAL.
24. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
25. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
26. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
27. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
28. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
29. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 26 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
30. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER.
31. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
32. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
33. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
34. WHERE THE DIVISION 26 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 26 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3~ 4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.
35. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
36. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
37. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
38. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
39. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
40. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 26 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 26 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
41. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE DIVISION 26 CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

NOTE:

1. THERE IS ADDITIONAL ELECTRICAL WORK INDICATED ON THE DRAWINGS OF OTHER TRADES. EC MUST REVIEW ALL DRAWINGS TO FULLY ASCERTAIN FULL SCOPE OF WORK.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
CB	CIRCUIT BREAKER
REC.	RECEPTACLE
ACT	ABOVE COUNTERTOP

DEMOLITION NOTES (NOT ALL APPLY):

1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING'S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.
2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
4. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUIP. TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
5. REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
6. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
7. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 26 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUNG CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.
8. THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER SECURELY TO MATCH THE ORIGINAL PATTERN.
9. IF IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES. TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
11. ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT. BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

TEMPORARY POWER CONSTRUCTION NOTES (NOT ALL APPLY):

1. THE DIVISION 26 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP1200. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
3. ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.
4. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS. OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
5. PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
6. WIRING SHALL BE 18*2+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
7. THE DIVISION 26 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
8. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 26 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
9. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.
10. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
11. THE DIVISION 26 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE. OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 26 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE DISPOSAL.
12. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.
13. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.
14. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.

2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.

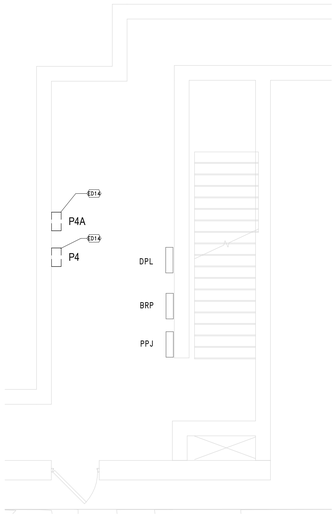
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.

4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.

5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

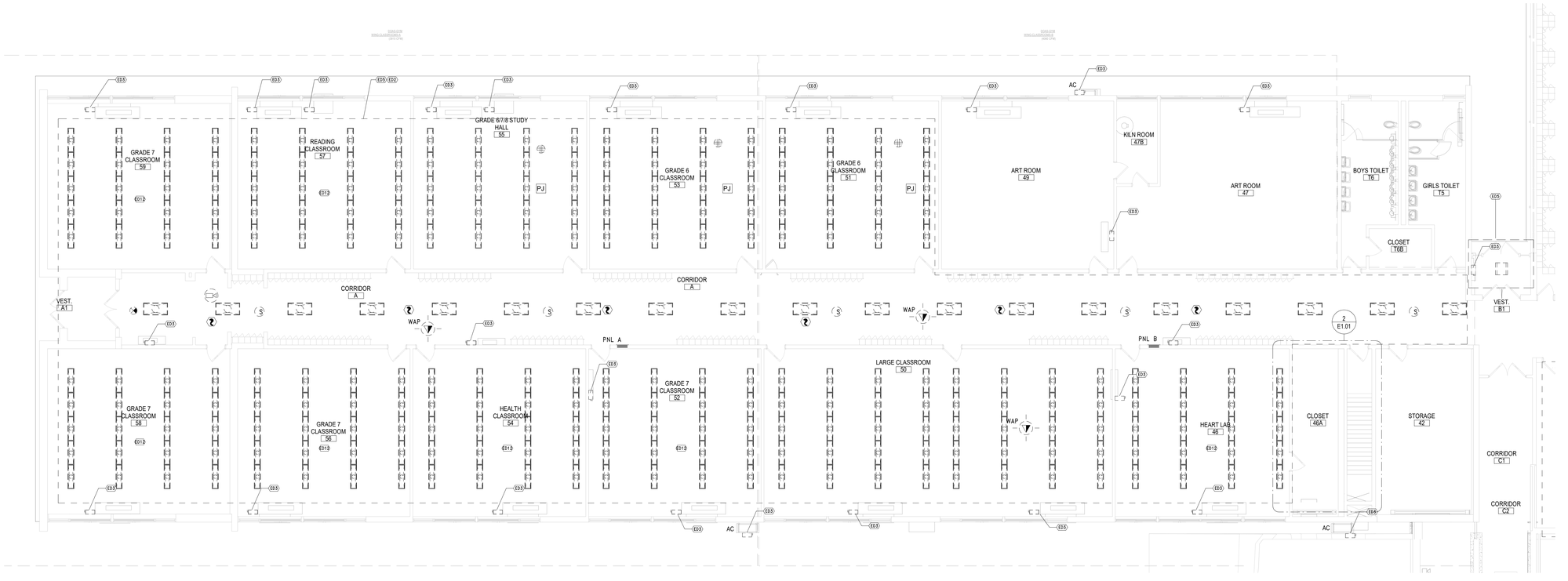
EXISTING FIRE ALARM SYSTEM NOTES

1. ELECTRICAL CONTRACTOR SHALL EXTEND THE EXISTING SYSTEM TO PROVIDE COVERAGE FOR THE NEW AREAS AND/OR DEVICES AND INTEGRATE THEM INTO THE SYSTEM. PROVIDE NEW UPDATED AND LEGIBLE GRAPHIC MAPS AT EACH LOCATION. THE MAPS SHALL BE PROTECTED FROM DAMAGE. FRAMED AND SHIELDED WITH TRANSPARENT SHATTERPROOF COVERS. NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM PANEL WHICH IS TO REMAIN. ALL NEW DEVICES SHALL BE INSTALLED PER ADA REQUIREMENTS AND FULLY INTEGRATED INTO THE SYSTEM. THE CONTRACTOR SHALL PROVIDE THE ITEMS ON THE DRAWING AND ALL RELATED EXPANSION, ADAPTIVE, AND CONNECTING WIRING, REPROGRAMMING AND DEVICES FOR A FULLY FUNCTIONING SYSTEM.
2. PRIOR TO PERFORMING ANY WORK ON THE SYSTEM, THE ELECTRICAL CONTRACTOR SHALL PERFORM A COMPLETE TEST OF THE SYSTEM IN THE PRESENCE THE OWNER'S REPRESENTATIVE TO ASCERTAIN AND NOTE ANY PRE-EXISTING DEFICIENCIES. ANY CORRECTIVE ACTION WILL BE AS DIRECTED BY THE OWNER WILL BE ON CHANGE ORDER BASIS.
3. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH SYSTEM MANUFACTURER SPECIFICATIONS, CONTRACT SPECIFICATIONS, LATEST EDITION OF NEC, NFPA 72, ANY LOCAL, STATE CODES.
4. ELECTRICAL CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, APPROVALS AND INSPECTIONS FOR THIS PROJECT AND PAY RELATED FEES. HE SHALL SUBMIT SHOP DRAWINGS ON ALL HARDWARE. THE SHOP DRAWINGS SHALL CONTAIN A SYSTEM RISER DIAGRAM.
5. ELECTRICAL CONTRACTOR TO PROTECT OR TEMPORARILY DISCONNECT / RECONNECT EXISTING FIRE ALARM DEVICES TO ACCOMMODATE NEW CONSTRUCTION AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR. WHERE PLANS CALL FOR EXISTING DEVICE TO BE RELOCATED, EXTEND WIRING AS REQUIRED.
6. ALL NEW FIRE ALARM DEVICES SHALL BE OF THE SAME MANUFACTURER AND LISTED FOR USE WITH THE FIRE ALARM PANEL.
7. PROVIDE ADAPTIVE HARDWARE TO POWER THE SPEAKER STROBES, STROBES AND MAGNETIC DOOR HOLDERS.
8. ALL WIRING SHALL BE AS SPECIFIED BY SYSTEM MANUFACTURER AND PLENUM RATED.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EQUIPMENT, SYSTEM MODULES, POWER SUPPLIES ETC. NEEDED TO HAVE A COMPLETE AND OPERATIONAL SYSTEM. PROVIDE NEW REMOTE ANNUNCIATOR PANEL(S) WHERE INDICATED INCLUDING UPDATED GRAPHIC MAPS. UPDATED MAPS SHALL ALSO INDICATE THE LOCATIONS OF ALL AREA OF RESCUE ASSISTANCE (REFUGE) CALL STATIONS. SUBMIT PROPO



2 LOWER LEVEL REMOVAL - AREA A

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



1 REMOVAL PLAN - AREA A

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

D. IN AREAS WHERE THE EXISTING CEILING IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE AND PROVIDE WIRE MANAGEMENT FOR ALL EXISTING LOW-VOLTAGE CABLING CURRENTLY ROUTED ABOVE THE CEILING. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

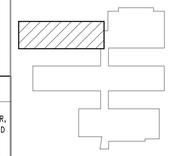
KEY NOTES

ED2	DISCONNECT AND TEMPORARILY REMOVE CEILING DEVICES (WAP, LIGHTING SENSORS, SMOKE DETECTOR, CEILING CAMERA). MAINTAIN ASSOCIATED CABLES AND CONDUIT FOR RECONNECTION AFTER CEILING REPLACEMENT WORK. REFER TO NEW WORK PLAN.
ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED5	E.C. SHALL REMOVE & MAINTAIN EXISTING LIGHTING FIXTURES AND ELECTRICAL CONNECTION. UPON G.C. CONCLUDING WORK, E.C. SHALL RE-INSTALL FIXTURES TO NEW LOCATIONS AS SHOWN ON PROPOSED PLAN.
ED12	NO CEILING DEVICES OBSERVED IN THIS ROOM. IF ANY ELECTRICAL DEVICES ARE NOTED DURING CONSTRUCTION, EC TO TEMPORARILY REMOVE AND MAINTAIN FOR REINSTALLATION.
ED14	DE-ENERGIZE AND DISCONNECT PUMPS TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS (VFD) WHILE MAINTAINING ASSOCIATED CIRCUIT BREAKER, BRANCH CIRCUIT CONDUIT AND WIRING TO BE RE-USED.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA A - DEMOLITION PLAN

DRAWING BY: EEA

CHECKED BY: EEA

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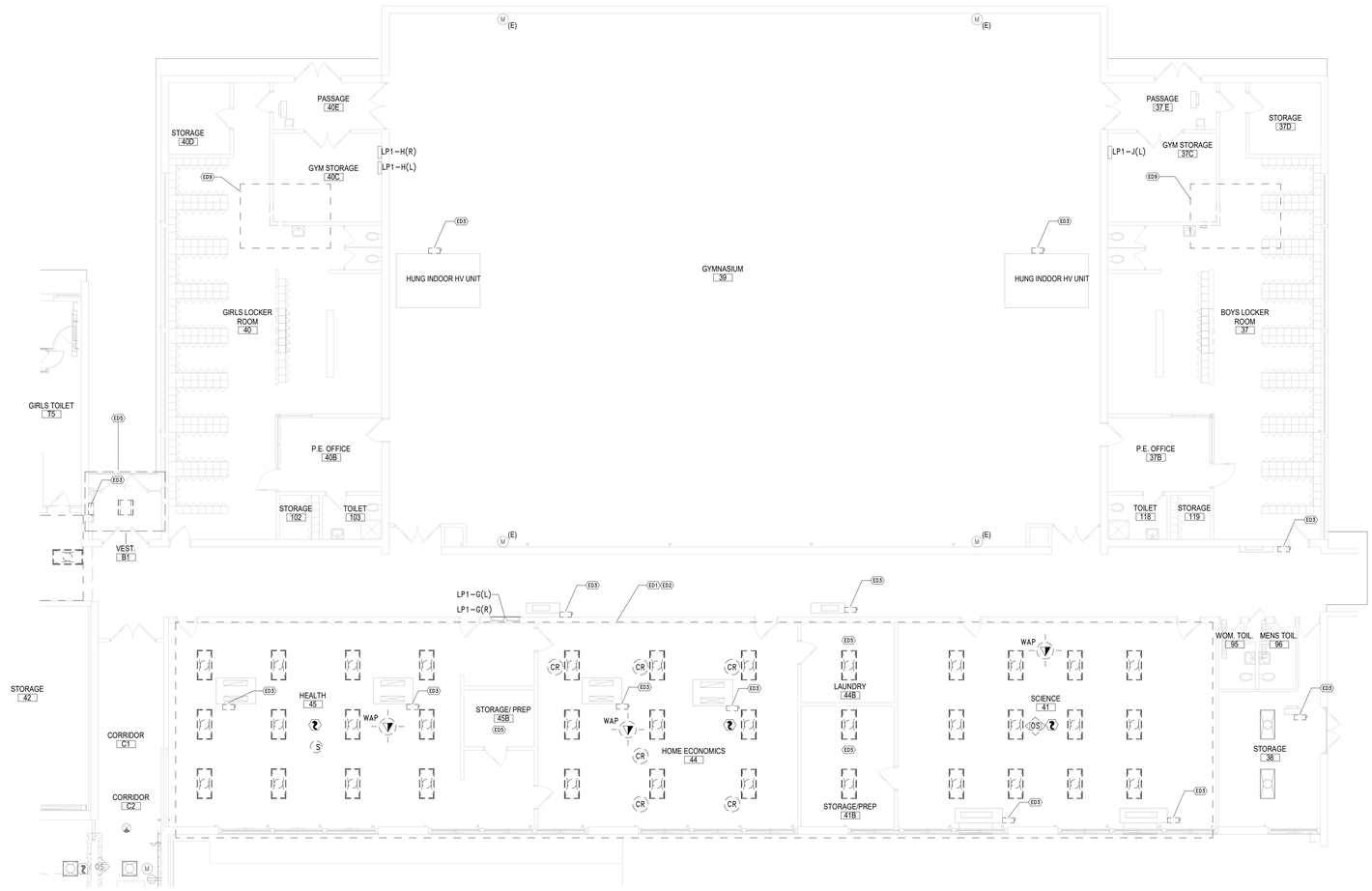
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA A - DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E1.01



1 REMOVAL PLAN - AREA B

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

D. IN AREAS WHERE THE EXISTING CEILING IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE AND PROVIDE WIRE MANAGEMENT FOR ALL EXISTING LOW-VOLTAGE CABLING CURRENTLY ROUTED ABOVE THE CEILING. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

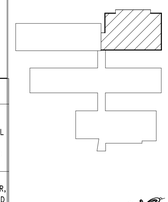
KEY NOTES

ED1	DISCONNECT, REMOVE AND DISPOSE LIGHTING FIXTURES AND ASSOCIATED POWER BRANCH CIRCUIT WITHIN DASHED AREA TO ALLOW FOR ARCHITECTURAL RENOVATION WORK. MAINTAIN ALL ASSOCIATED LIGHTING CONTROLS FOR CONNECTION TO PROPOSED FIXTURES.
ED2	DISCONNECT AND TEMPORARILY REMOVE CEILING DEVICES (WAP, LIGHTING SENSORS, SMOKE DETECTOR, CEILING CAMERA). MAINTAIN ASSOCIATED CABLES AND CONDUIT FOR RECONNECTION AFTER CEILING REPLACEMENT WORK. REFER TO NEW WORK PLAN.
ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED5	E.C. SHALL REMOVE & MAINTAIN EXISTING LIGHTING FIXTURES AND ELECTRICAL CONNECTION. UPON G.C. CONCLUDING WORK, E.C. SHALL RE-INSTALL FIXTURES TO NEW LOCATIONS AS SHOWN ON PROPOSED PLAN.
ED9	EC TO DOCUMENT LOCATION AND TEMPORARILY REMOVE CONDUIT AND ELECTRICAL DEVICES WITHIN THE SELECTED AREA FOR STRUCTURAL COLUMN CONSTRUCTION.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

AREA B - DEMOLITION PLAN

DRAWING BY: EEA

CHECKED BY: EEA

NOTICE

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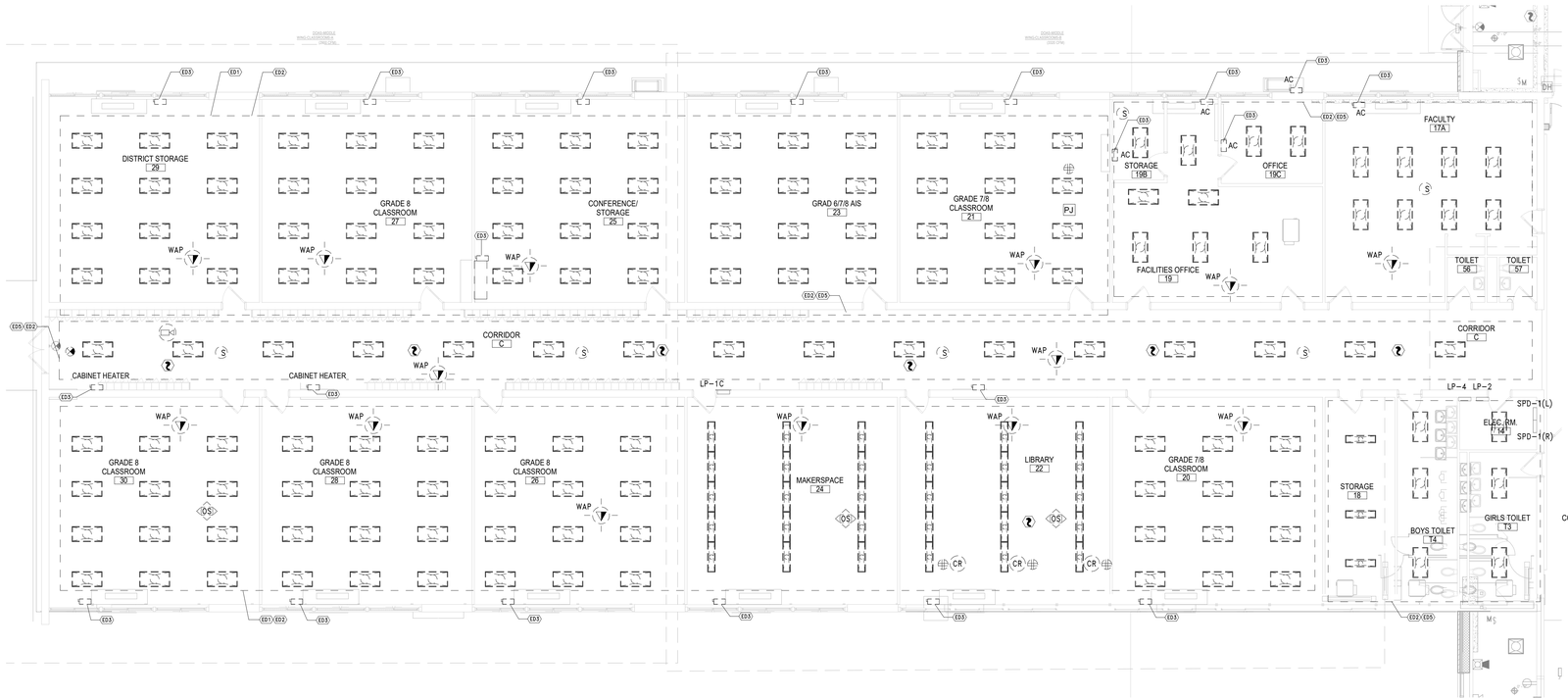
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA B - DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E1.02



1 REMOVAL PLAN - AREA C

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

D. IN AREAS WHERE THE EXISTING CEILING IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE AND PROVIDE WIRE MANAGEMENT FOR ALL EXISTING LOW-VOLTAGE CABLING CURRENTLY ROUTED ABOVE THE CEILING. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

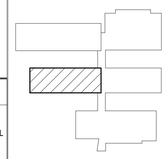
KEY NOTES

ED1	DISCONNECT, REMOVE AND DISPOSE LIGHTING FIXTURES AND ASSOCIATED POWER BRANCH CIRCUIT WITHIN DASHED AREA TO ALLOW FOR ARCHITECTURAL RENOVATION WORK. MAINTAIN ALL ASSOCIATED LIGHTING CONTROLS FOR CONNECTION TO PROPOSED FIXTURES.
ED2	DISCONNECT AND TEMPORARILY REMOVE CEILING DEVICES (WAP, LIGHTING SENSORS, SMOKE DETECTOR, CEILING CAMERA). MAINTAIN ASSOCIATED CABLES AND CONDUIT FOR RECONNECTION AFTER CEILING REPLACEMENT WORK. REFER TO NEW WORK PLAN.
ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED5	E.C. SHALL REMOVE & MAINTAIN EXISTING LIGHTING FIXTURES AND ELECTRICAL CONNECTION. UPON G.C. CONCLUDING WORK, E.C. SHALL RE-INSTALL FIXTURES TO NEW LOCATIONS AS SHOWN ON PROPOSED PLAN.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

AREA C - DEMOLITION PLAN

DRAWING BY: EEA

CHECKED BY: EEA

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SED No. 13-22-01-04-0-008-017

DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL

DWG TITLE AREA C - DEMOLITION PLAN

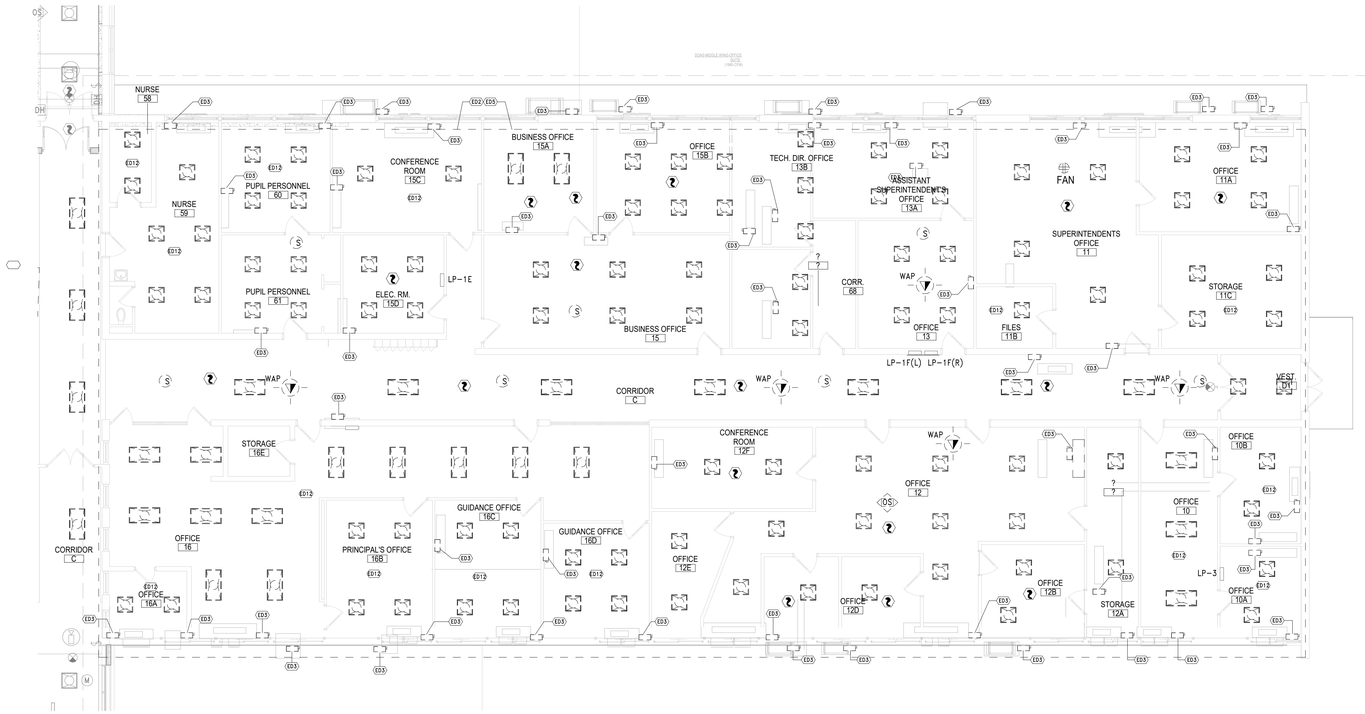
SCALE: AS NOTED

DATE: OCTOBER 26, 2026

BID PICK UP: TBD

FILE No. 25-273

E1.03



2 REMOVAL PLAN - AREA D

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

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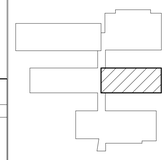
KEY NOTES

ED2	DISCONNECT AND TEMPORARILY REMOVE CEILING DEVICES (WAP, LIGHTING SENSORS, SMOKE DETECTOR, CEILING CAMERA). MAINTAIN ASSOCIATED CABLES AND CONDUIT FOR RECONNECTION AFTER CEILING REPLACEMENT WORK. REFER TO NEW WORK PLAN.
ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED5	E.C. SHALL REMOVE & MAINTAIN EXISTING LIGHTING FIXTURES AND ELECTRICAL CONNECTION. UPON G.C. CONCLUDING WORK, E.C. SHALL RE-INSTALL FIXTURES TO NEW LOCATIONS AS SHOWN ON PROPOSED PLAN.
ED12	NO CEILING DEVICES OBSERVED IN THIS ROOM. IF ANY ELECTRICAL DEVICES ARE NOTED DURING CONSTRUCTION, EC TO TEMPORARILY REMOVE AND MAINTAIN FOR REINSTALLATION.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA D - DEMOLITION PLAN

DRAWING BY: EEA

CHECKED BY: EEA

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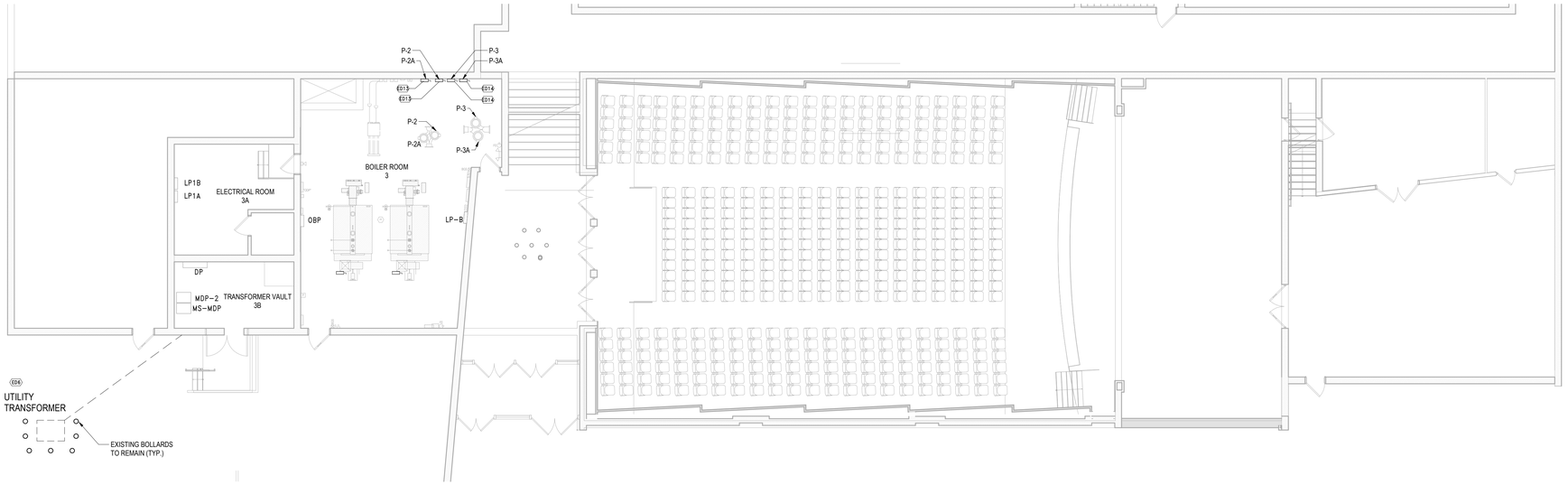
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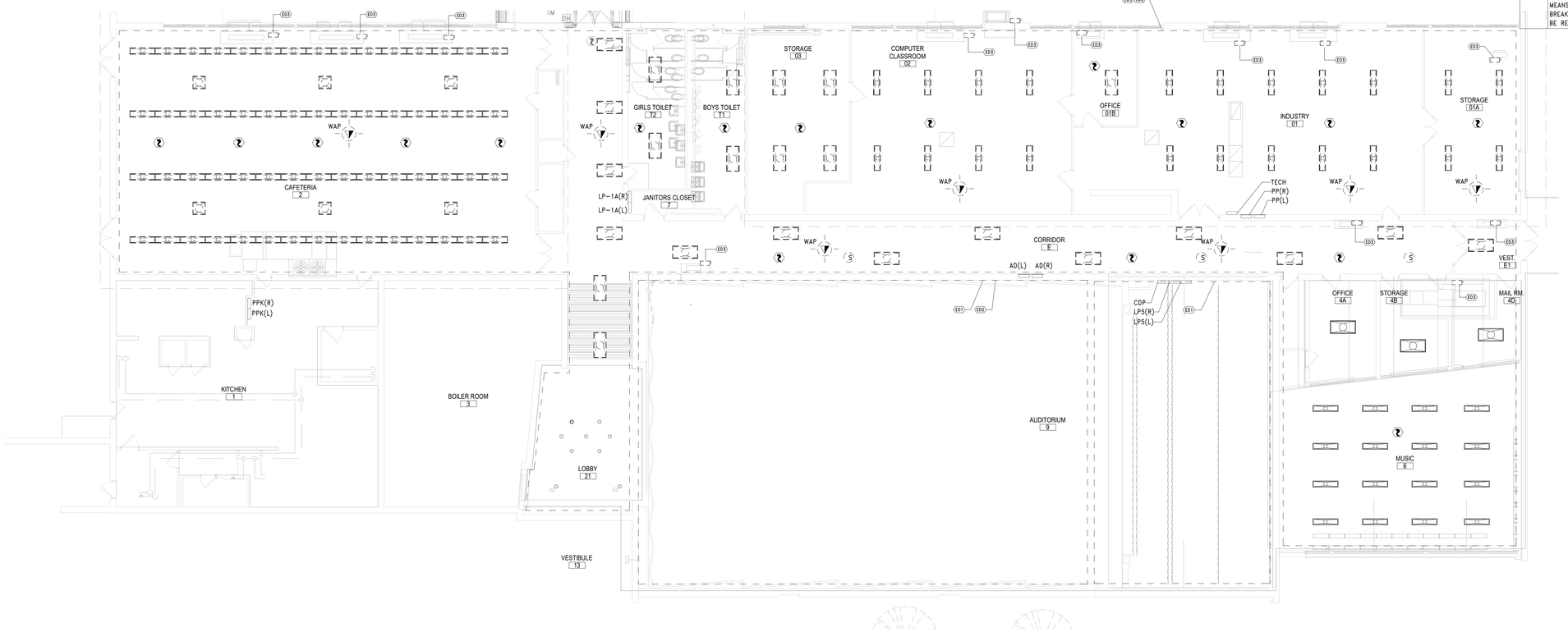
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILLBROOK MIDDLE SCHOOL
DWG TITLE	AREA D - DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E1.04



2 REMOVAL LOWER LEVEL - AREA E

SCALE: 1/8" = 1'-0"



1 REMOVAL PLAN - AREA E

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

D. IN AREAS WHERE THE EXISTING CEILING IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE AND PROVIDE WIRE MANAGEMENT FOR ALL EXISTING LOW-VOLTAGE CABLING CURRENTLY ROUTED ABOVE THE CEILING. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

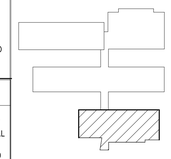
KEY NOTES

ED1	DISCONNECT, REMOVE AND DISPOSE LIGHTING FIXTURES AND ASSOCIATED POWER BRANCH CIRCUIT WITHIN DASHED AREA TO ALLOW FOR ARCHITECTURAL RENOVATION WORK. MAINTAIN ALL ASSOCIATED LIGHTING CONTROLS FOR CONNECTION TO PROPOSED FIXTURES.
ED2	DISCONNECT AND TEMPORARILY REMOVE CEILING DEVICES (WAP, LIGHTING SENSORS, SMOKE DETECTOR, CEILING CAMERA). MAINTAIN ASSOCIATED CABLES AND CONDUIT FOR RECONNECTION AFTER CEILING REPLACEMENT WORK. REFER TO NEW WORK PLAN.
ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED5	E.C. SHALL REMOVE & MAINTAIN EXISTING LIGHTING FIXTURES AND ELECTRICAL CONNECTION. UPON G.C. CONCLUDING WORK, E.C. SHALL RE-INSTALL FIXTURES TO NEW LOCATIONS AS SHOWN ON PROPOSED PLAN.
ED6	COORDINATE WITH UTILITY COMPANY TO DE-ENERGIZE AND REMOVE UTILITY TRANSFORMER. PULL BACK AND REMOVE ALL ASSOCIATED SECONDARY CONDUCTORS. PRIMARY CONDUCTORS SHALL BE EXISTING TO REMAIN. TRANSFORMER PAD TO BE MAINTAINED FOR RE-USE WITH NEW TRANSFORMER IN SAME LOCATION.
ED13	DE-ENERGIZE AND DISCONNECT PUMPS TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE. MAINTAIN BREAKER FOR RE-USE WITH PROPOSED PUMPS.
ED14	DE-ENERGIZE AND DISCONNECT PUMPS TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS (VFD) WHILE MAINTAINING ASSOCIATED CIRCUIT BREAKER, BRANCH CIRCUIT CONDUIT AND WIRING TO BE RE-USED.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA E - DEMOLITION PLAN

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

NOTICE

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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA E - DEMOLITION PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E1.05



1 REMOVAL PLAN - ROOF

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

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE AND MAINTAIN CIRCUIT CONTINUITY TO ANY EX DEVICES TO REMAIN DOWN THE LINE.

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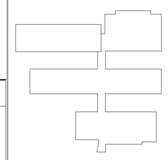
KEY NOTES

ED3	DE-ENERGIZE AND DISCONNECT EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED DISCONNECTING MEANS AND PULL BACK ALL ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING TO SOURCE PANEL AND REMOVE.
ED10	REMOVE FAN SHUT DOWN RELAYS ASSOCIATED WITH EXHAUST FAN TO BE REMOVED.
ED11	REMOVE FAN SHUT DOWN RELAYS AND DUCT DETECTORS ASSOCIATED WITH RTU TO BE REMOVED.

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

DEMOLITION PLAN - ROOF

DRAWING BY: EEA

CHECKED BY: EEA

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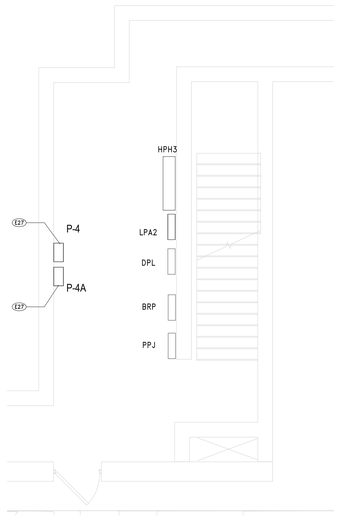
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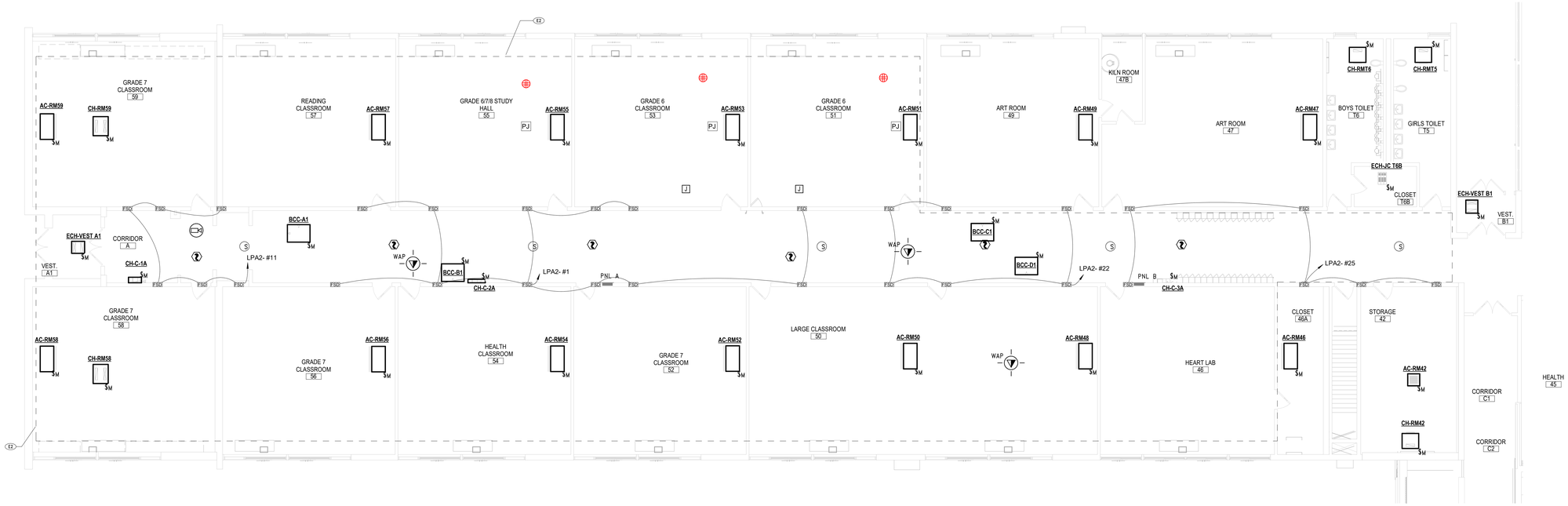
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	DEMOLITION PLAN - ROOF
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E1.06



2 LOWER LEVEL - AREA A
SCALE: 1/4" = 1'-0"



1 PROPOSED PLAN - AREA A
SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO SHEETS E6.01, E6.02, E6.03 FOR PANELBOARD DIRECTORIES.

D. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E5.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND CIRCUITING INFORMATION.

E. REFER TO POWER RISER ON SHEET E4.01 FOR PANEL CHARACTERISTICS.

F. ALL HALF-TONED DEVICES ARE EXISTING TO REMAIN U.N.O.

G. ALL DISCONNECTS/STARTERS FOR ALL HVAC EQUIPMENT TO BE MC FURNISHED/EC INSTALLED.

H. FIELD COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION PRIOR TO ROUTING OF BRANCH CIRCUIT CONDUIT/WIRING.

I. ALL NEWLY EXPOSED WIRING AT OPEN CEILING AREAS SHALL BE RUN IN HARD CONDUIT IN AN AESTHETICALLY PLEASING, WORKMAN-LIKE MANNER. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

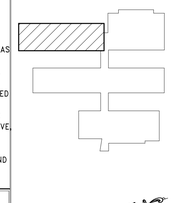
KEY NOTES

E2	RE-INSTALL TEMPORARILY REMOVED CEILING DEVICES (OCCUPANCY SENSOR, WAP, CEILING CAMERA) AFTER COMPLETION OF CEILING REPLACEMENT. EXTEND ASSOCIATED POWER AND CONTROL WIRING/CONDUIT AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
E27	RE-USE EXISTING CIRCUIT BREAKER AND BRANCH CIRCUIT CONDUIT/WIRING PREVIOUSLY FEEDING REMOVED PUMPS.

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA A - PROPOSED POWER PLAN

DWG TITLE

DRAWING BY: EEA
CHECKED BY: EEA

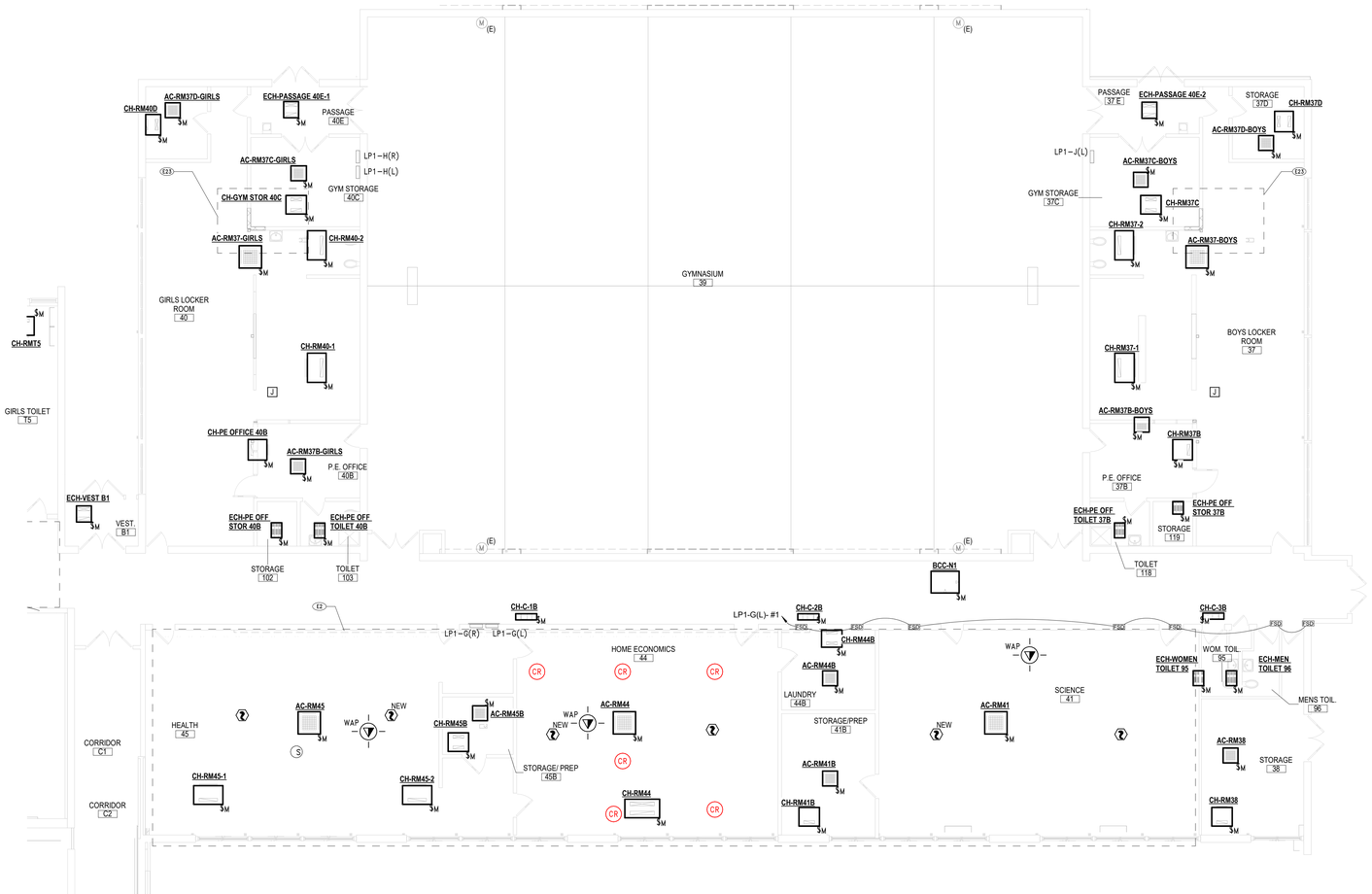
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DWG TITLE	AREA A - PROPOSED POWER PLAN
SCALE:	AS NOTED
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BID PICK UP:	TBD
FILE No.	25-273

E2.01



1 PROPOSED PLAN - AREA B

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO SHEETS E6.01, E6.02, E6.03 FOR PANELBOARD DIRECTORIES.

D. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E5.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND CIRCUITING INFORMATION.

E. REFER TO POWER RISER ON SHEET E4.01 FOR PANEL CHARACTERISTICS.

F. ALL HALF-TONED DEVICES ARE EXISTING TO REMAIN U.N.O.

G. ALL DISCONNECTS/STARTERS FOR ALL HVAC EQUIPMENT TO BE MC FURNISHED/EC INSTALLED.

H. FIELD COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION PRIOR TO ROUTING OF BRANCH CIRCUIT CONDUIT/WIRING.

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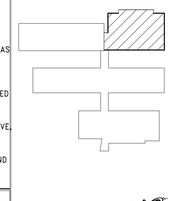
KEY NOTES

E2	RE-INSTALL TEMPORARILY REMOVED CEILING DEVICES (OCCUPANCY SENSOR, WAP, CEILING CAMERA) AFTER COMPLETION OF CEILING REPLACEMENT. EXTEND ASSOCIATED POWER AND CONTROL WIRING/CONDUIT AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
E23	RE-INSTALL CONDUITS AND ELECTRICAL DEVICES WITHIN DASHED AREA PREVIOUSLY REMOVED TO ALLOW FOR STRUCTURAL COLUMN CONSTRUCTION.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA B - PROPOSED POWER PLAN

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

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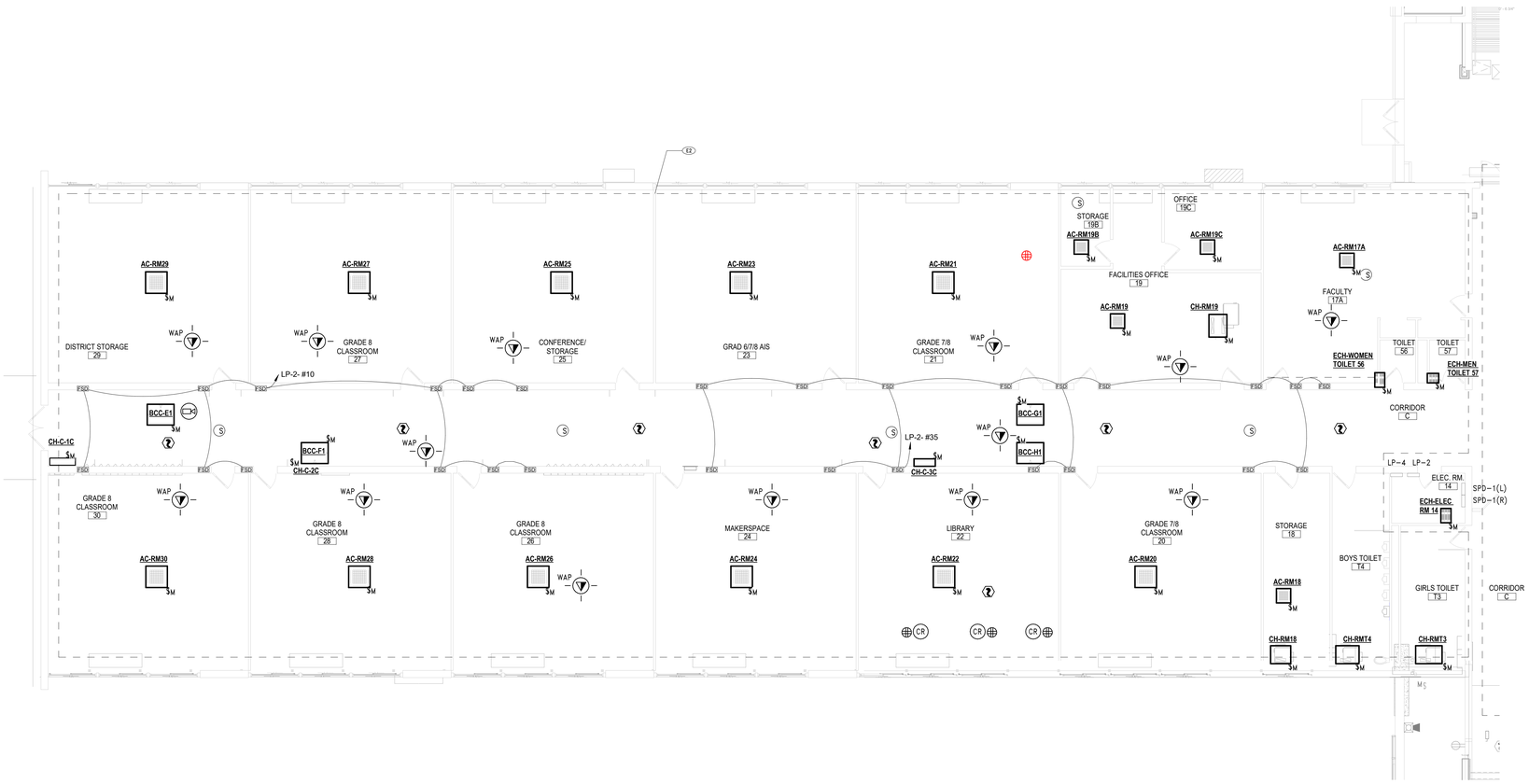
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DWG TITLE	AREA B - PROPOSED POWER PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.02



1 PROPOSED PLAN - AREA C

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO SHEETS E6.01, E6.02, E6.03 FOR PANELBOARD DIRECTORIES.

D. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E5.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND CIRCUITING INFORMATION.

E. REFER TO POWER RISER ON SHEET E4.01 FOR PANEL CHARACTERISTICS.

F. ALL HALF-TONED DEVICES ARE EXISTING TO REMAIN U.N.O.

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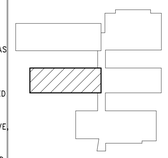
KEY NOTES

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA C - PROPOSED POWER PLAN

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA C - PROPOSED POWER PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.03

SHEET NOTES

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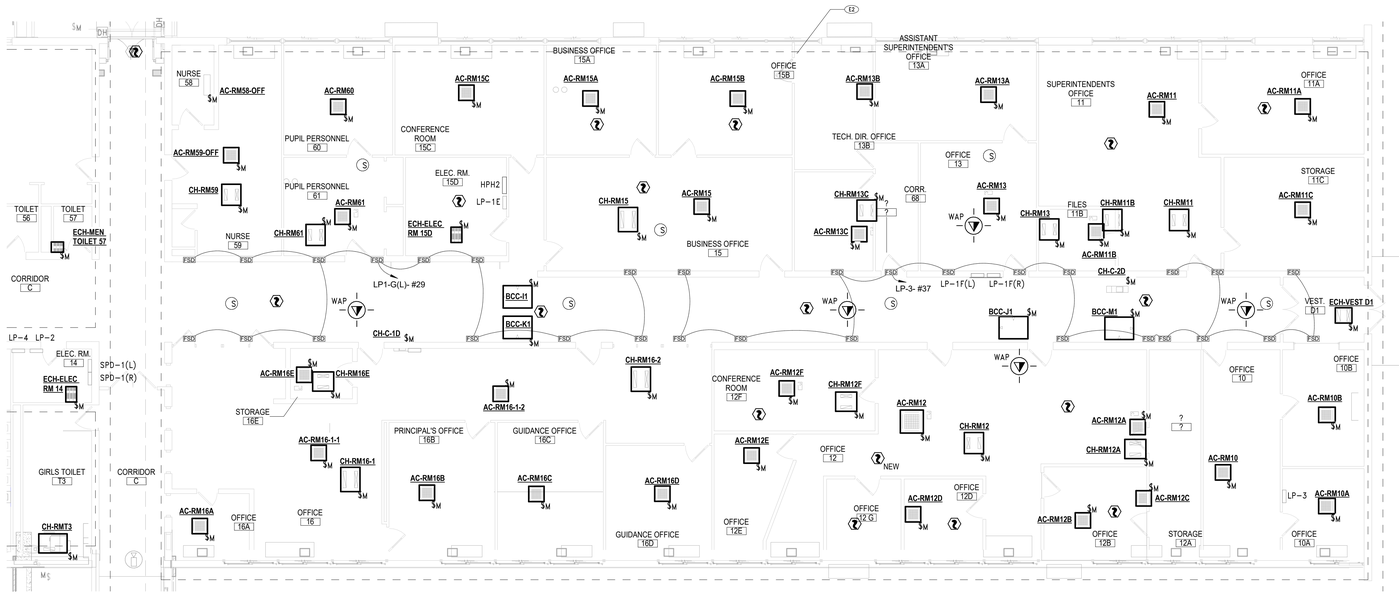
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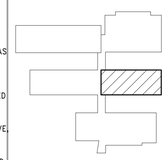
1 PROPOSED PLAN - AREA D

SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA D - PROPOSED POWER PLAN

DRAWING BY: EEA

CHECKED BY: EEA

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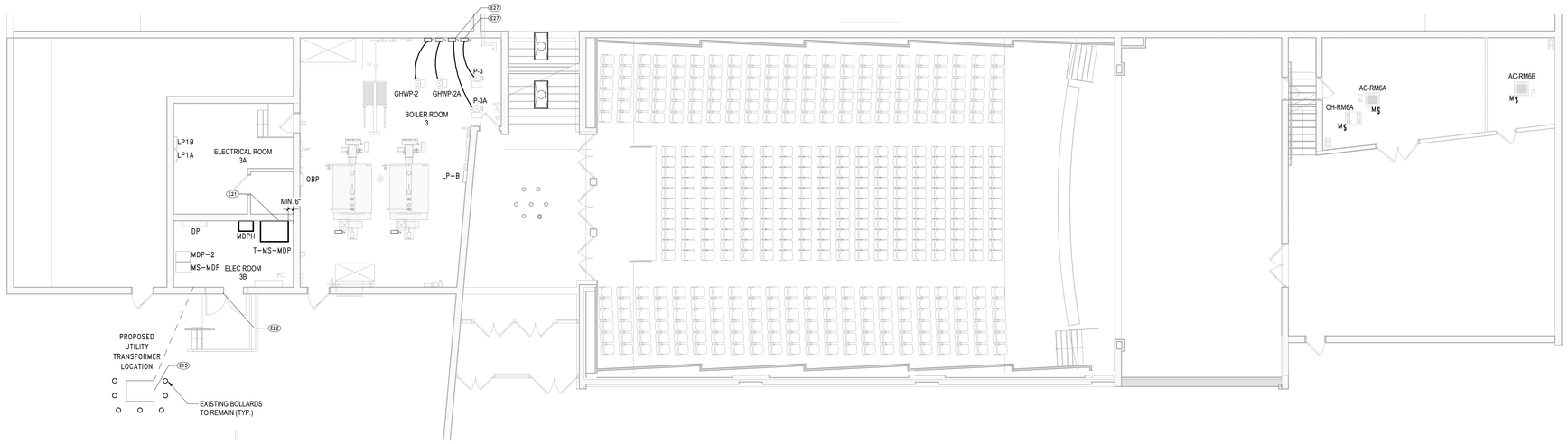
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DWG TITLE	AREA D - PROPOSED POWER PLAN
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BID PICK UP:	TBD
FILE No.	25-273

E2.04



2 PROPOSED LOWER LEVEL - AREA E - ELECTRICAL ROOM

SCALE: 1/8" = 1'-0"



1 PROPOSED PLAN - AREA E

SCALE: 1/8" = 1'-0"

SHEET NOTES

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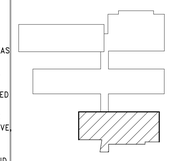
KEY NOTES

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E14	PROVIDE LOCKABLE FUSED DISCONNECT SWITCH (10A-FUSE) FOR LIFT. SWITCH TO INCLUDE ADDITIONAL POLE OR CONTACT FOR DISCONNECTION OF CONTROLLER FROM 24V BACKUP SUPPLY. FIELD COORDINATE EXACT DISCONNECT LOCATION.
E15	COORDINATE WITH UTILITY COMPANY TO PROVIDE UTILITY OWNED SERVICE TRANSFORMER. COORDINATE THE REMOVAL OF EXISTING PAD AND CONSTRUCTION OF NEW PAD PER DETAIL 3/E2.05. REFER TO POWER RISER DIAGRAM ON E4.01 FOR FEEDER DETAILS.
E21	TRANSFORMER SHALL BE INSTALLED WITH MINIMUM 6" CLEARANCE FROM THE WALL. PROVIDE MINIMUM 4" THICK HOUSEKEEPING PAD. PAD SHALL EXTEND AT LEAST 6" BEYOND THE PHYSICAL ENCLOSURE FOOTPRINT OF THE TRANSFORMER ON ALL SIDES. THE CONCRETE PAD SHALL HAVE A MINIMUM 28-DAT COMPRESSIVE STRENGTH OF 4,000PSI.
E22	EC TO COORDINATE WITH GC TO REMOVE DOOR AND OPEN WALL AS REQUIRED TO ACCOMODATE NEW TRANSFORMER INSTALLATION.
E25	PROVIDE CONVINIENCE RECEPTACLE FOR LIFT. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
E27	RE-USE EXISTING CIRCUIT BREAKER AND BRANCH CIRCUIT CONDUIT/WIRING PREVIOUSLY FEEDING REMOVED PUMPS.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA E - PROPOSED POWER PLAN

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

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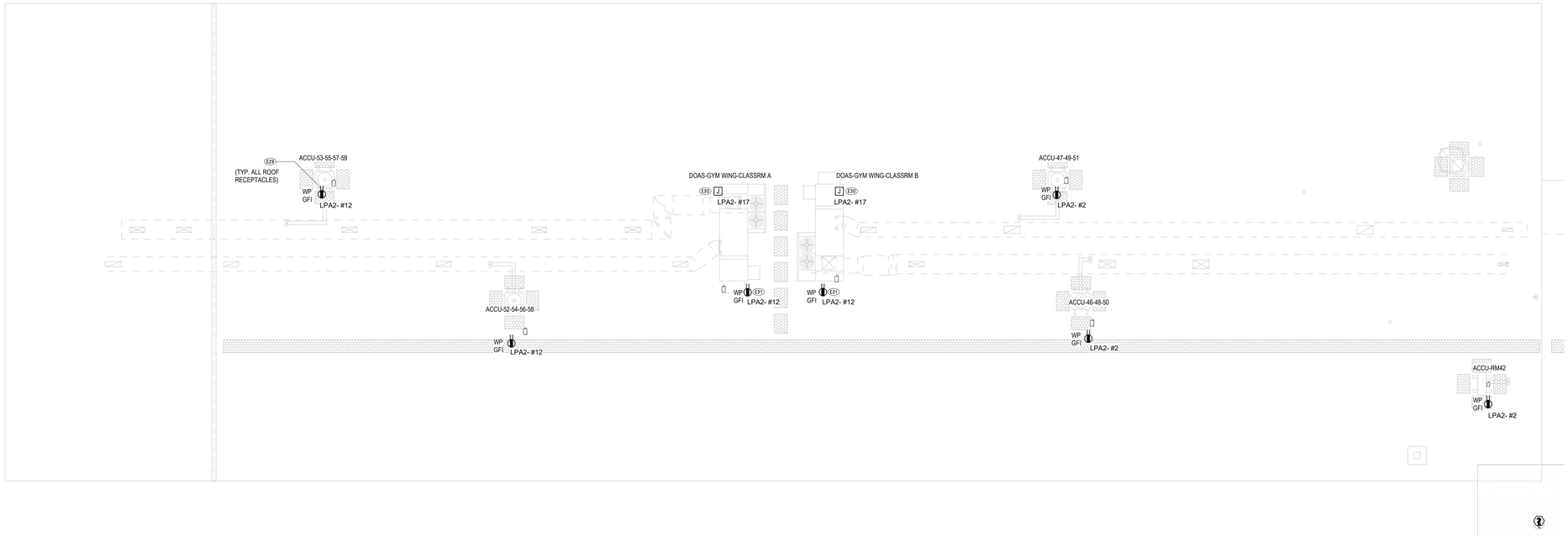
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA E - PROPOSED POWER PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.05



1 PROPOSED PLAN - ROOF AREA A

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. REFER TO SHEETS E6.01, E6.02, E6.03 FOR PANELBOARD DIRECTORIES.

D. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON SHEET E5.01 FOR MECHANICAL EQUIPMENT ELECTRICAL REQUIREMENTS AND CIRCUITING INFORMATION.

E. REFER TO POWER RISER ON SHEET E4.01 FOR PANEL CHARACTERISTICS.

F. ALL HALF-TONED DEVICES ARE EXISTING TO REMAIN U.N.O.

G. ALL DISCONNECTS/STARTERS FOR ALL HVAC EQUIPMENT TO BE MC FURNISHED/EC INSTALLED.

H. FIELD COORDINATE EXACT MECHANICAL EQUIPMENT LOCATION PRIOR TO ROUTING OF BRANCH CIRCUIT CONDUIT/WIRING.

I. ALL NEWLY EXPOSED WIRING AT OPEN CEILING AREAS SHALL BE RUN IN HARD CONDUIT IN AN AESTHETICALLY PLEASING, WORKMAN-LIKE MANNER. PROVIDE J-HOOKS, CABLE SUPPORTS, AND OTHER APPROVED WIRE MANAGEMENT METHODS AS REQUIRED TO PROPERLY SUPPORT AND ROUTE ALL CABLING. COORDINATE THE PROPOSED CABLING ROUTING AND SUPPORT METHOD WITH THE SCHOOL REPRESENTATIVE, ARCHITECT, AND ENGINEER PRIOR TO INSTALLATION. MAINTAIN EXISTING CABLE FUNCTIONALITY AND PROVIDE A NEAT, ORDERLY, AND CODE-COMPLIANT INSTALLATION.

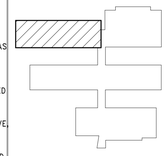
KEY NOTES

E29	PROVIDE KINDORF SUPPORT FOR DISCONNECTS AND RECEPTACLES (WHERE NOT SUPPLIED WITH UNIT).
E30	PROVIDE DUCT SMOKE DETECTOR WITH 120V HEATED ENCLOSURE. CONNECT DETECTOR TO FIRE ALARM SYSTEM.
E31	GFI RECEPTACLE SHALL BE FACOTRY SUPPLIED/EC WIRED TO CIRCUITS AS NOTED.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

ROOF PLAN AREA A

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

NOTICE

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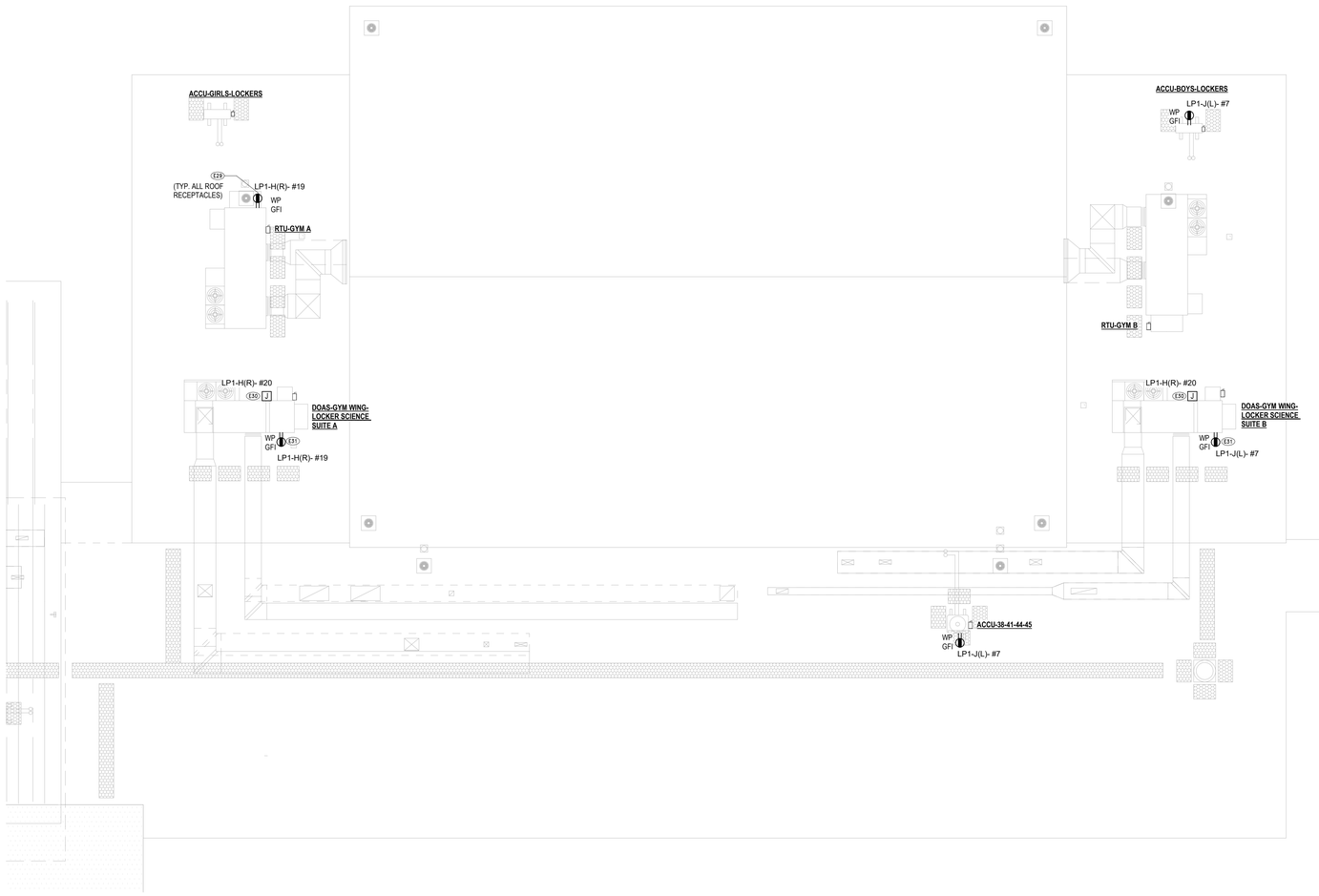
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SED No.	13-22-01-04-0-008-017
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	ROOF PLAN AREA A
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.07



1 PROPOSED PLAN - ROOF AREA B

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

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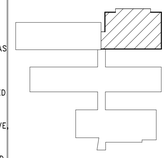
KEY NOTES

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E30	PROVIDE DUCT SMOKE DETECTOR WITH 120V HEATED ENCLOSURE. CONNECT DETECTOR TO FIRE ALARM SYSTEM.
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

ROOF PLAN AREA B

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

NOTICE

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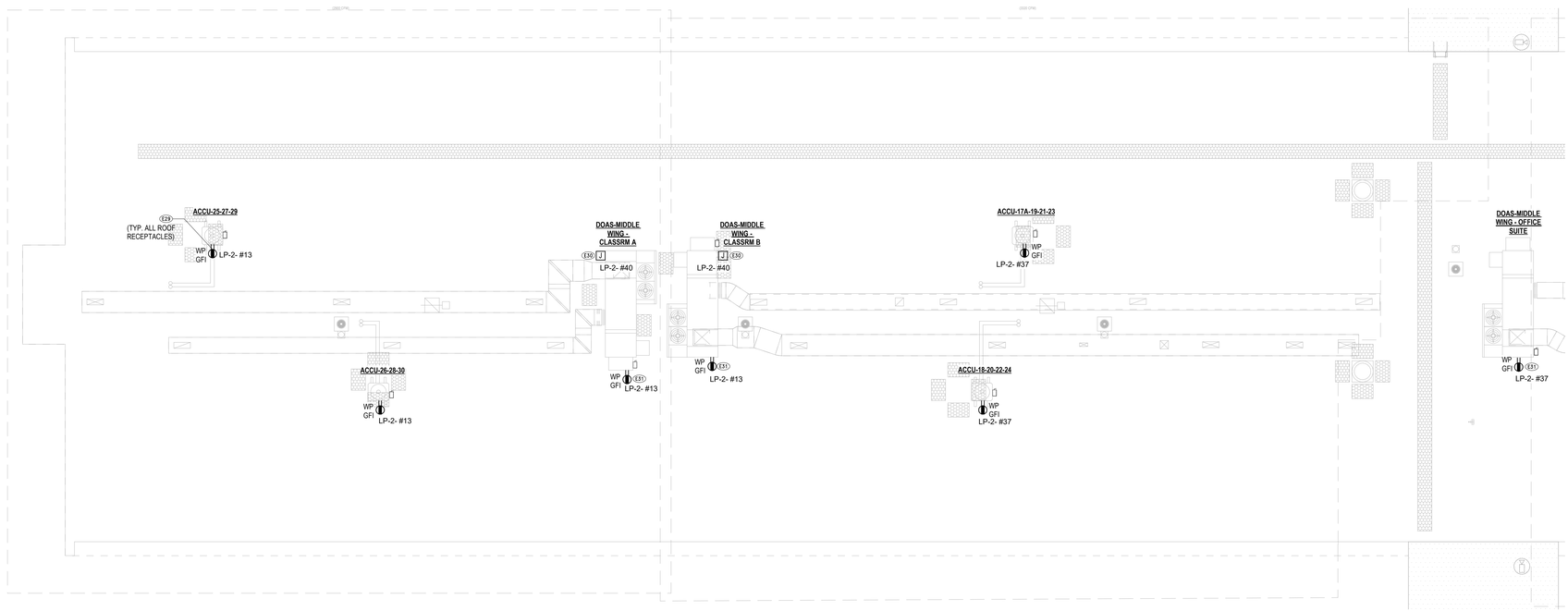
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	ROOF PLAN AREA B
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.08



1 PROPOSED PLAN - ROOF AREA C

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

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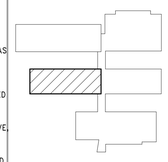
KEY NOTES

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

ROOF PLAN AREA C

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

NOTICE

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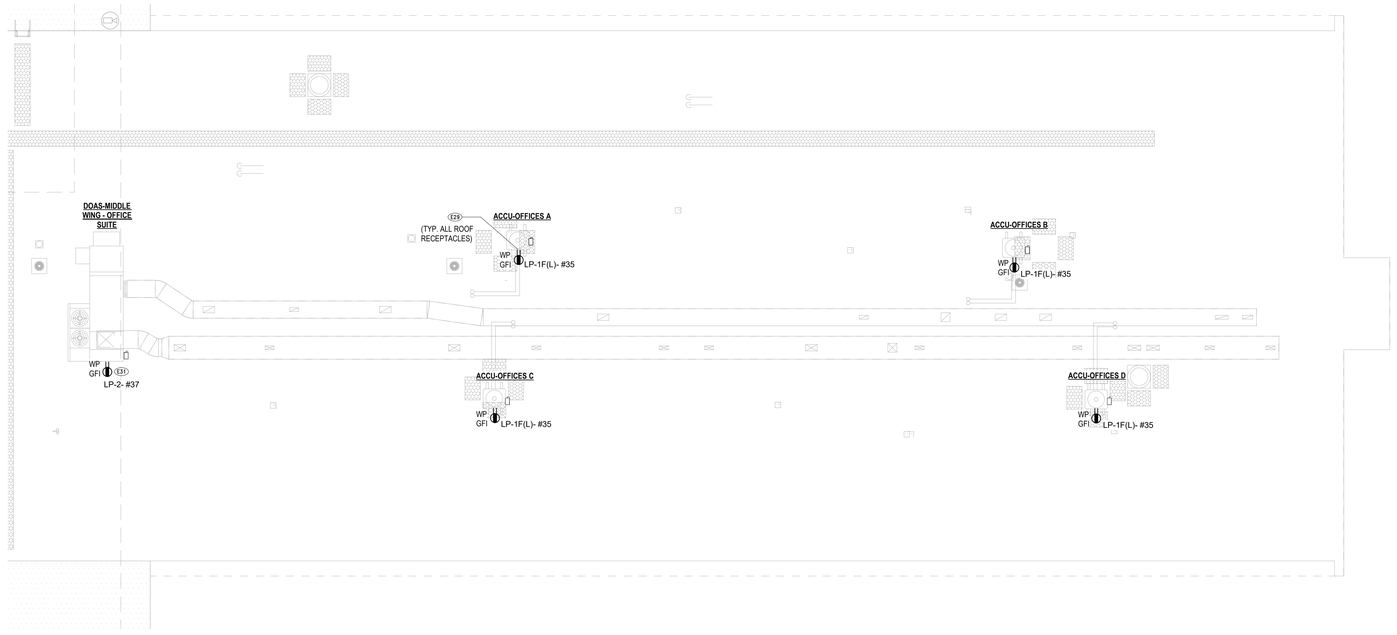
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	ROOF PLAN AREA C
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.09



1 PROPOSED PLAN - ROOF AREA D

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

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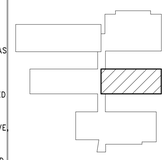
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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

ROOF PLAN AREA D

DRAWING BY: EEA

CHECKED BY: EEA

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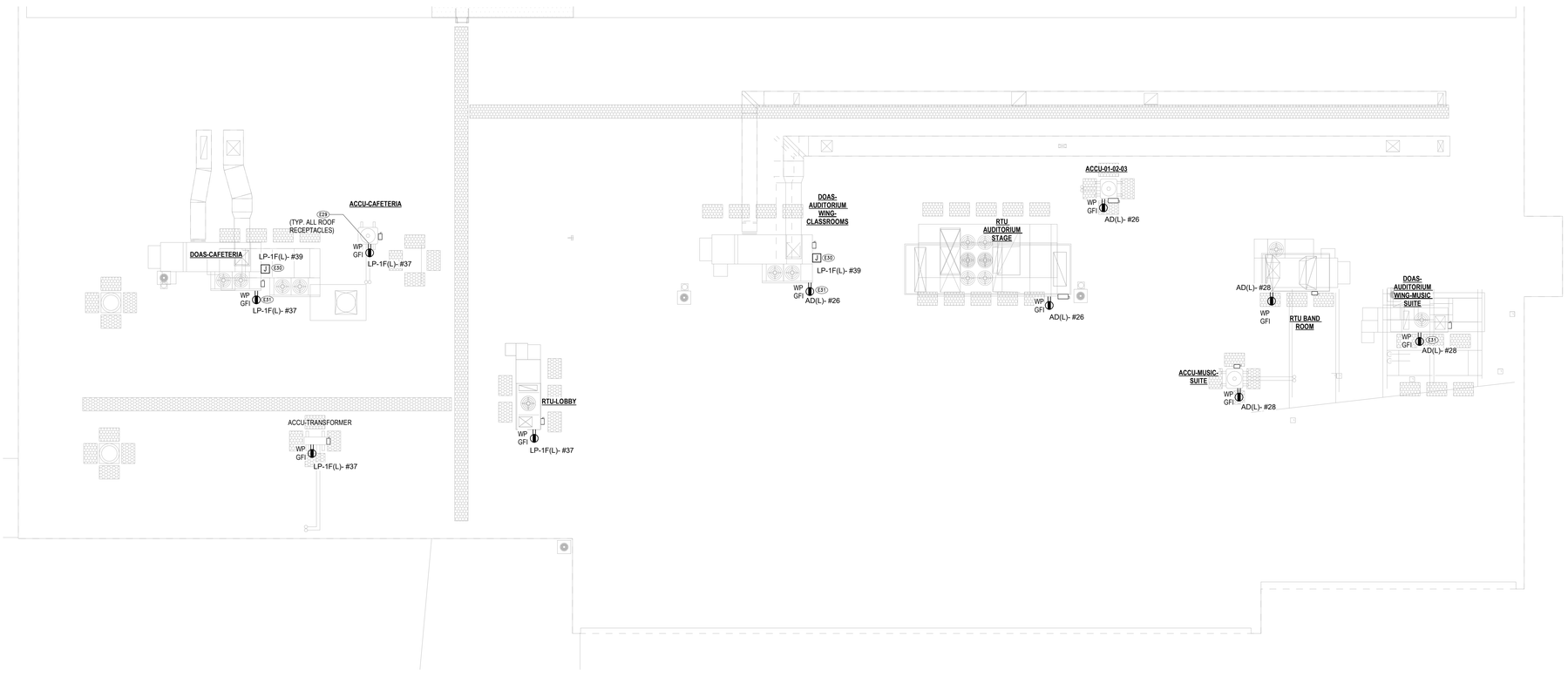
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DWG TITLE	ROOF PLAN AREA D
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E2.10



1 PROPOSED PLAN - ROOF AREA E

SCALE: 1/8" = 1'-0"

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

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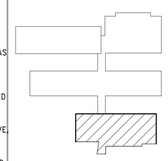
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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: ROOF PLAN AREA E

DRAWING BY: EEA

CHECKED BY: EEA

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DWG TITLE	ROOF PLAN AREA E
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E2.11

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

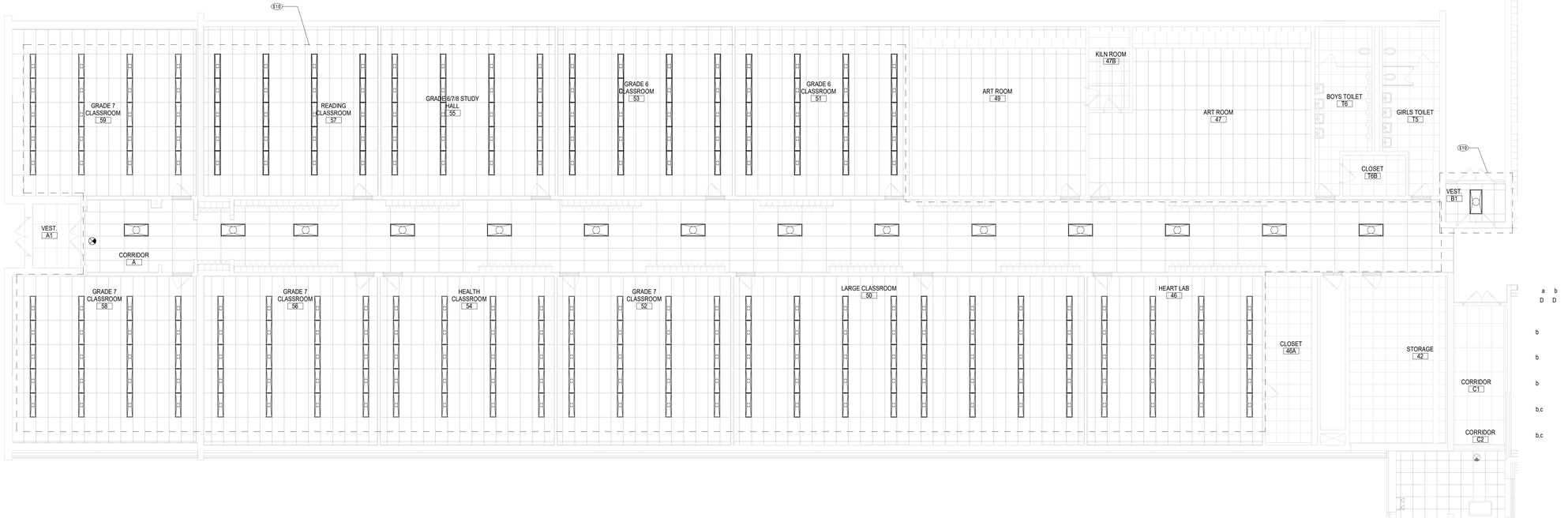
B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. ALL EXIT SIGNS AND ELUS SHALL BE CIRCUITED TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" CONDUIT.

D. REFER TO LIGHTING FIXTURE SCHEDULE ON E5.01.

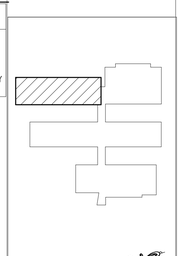
KEY NOTES

E10	RE-INSTALL TEMPORARILY REMOVED LIGHTING FIXTURES AND SENSORS WITHIN DASHED AREA AFTER COMPLETION OF CEILING REPLACEMENT TO MATCH EXISTING CONDITIONS. EXTEND ASSOCIATED POWER BRANCH CIRCUIT CONDUIT AND WIRING AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).



1 LIGHTING PLAN- AREA A

SCALE: 1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA A - PROPOSED LIGHTING

DWG TITLE

REV.	DATE	ITEM

NOTICE

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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA A - PROPOSED LIGHTING
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	TBD
FILE No.	25-273

E3.01

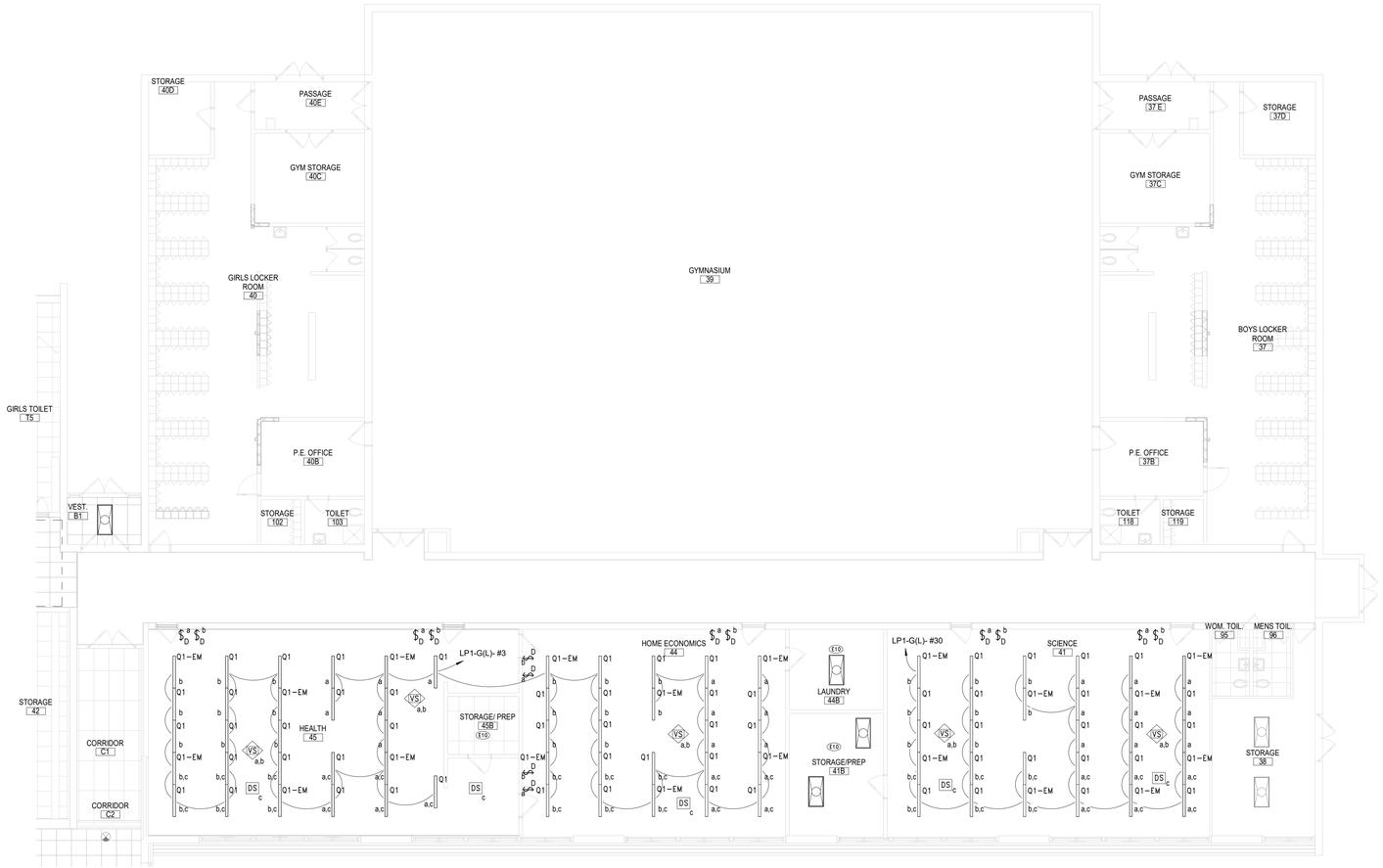
SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

C. ALL EXIT SIGNS AND ELUS SHALL BE CIRCUITED TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" CONDUIT.

D. REFER TO LIGHTING FIXTURE SCHEDULE ON E5.01.



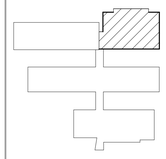
1 LIGHTING PLAN - AREA B

SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: AREA B - PROPOSED LIGHTING

DRAWING BY: EEA

CHECKED BY: EEA

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SED No.	13-22-01-04-0-008-017
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA B - PROPOSED LIGHTING
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
BID PICK UP:	
FILE No.	25-273

E3.02

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

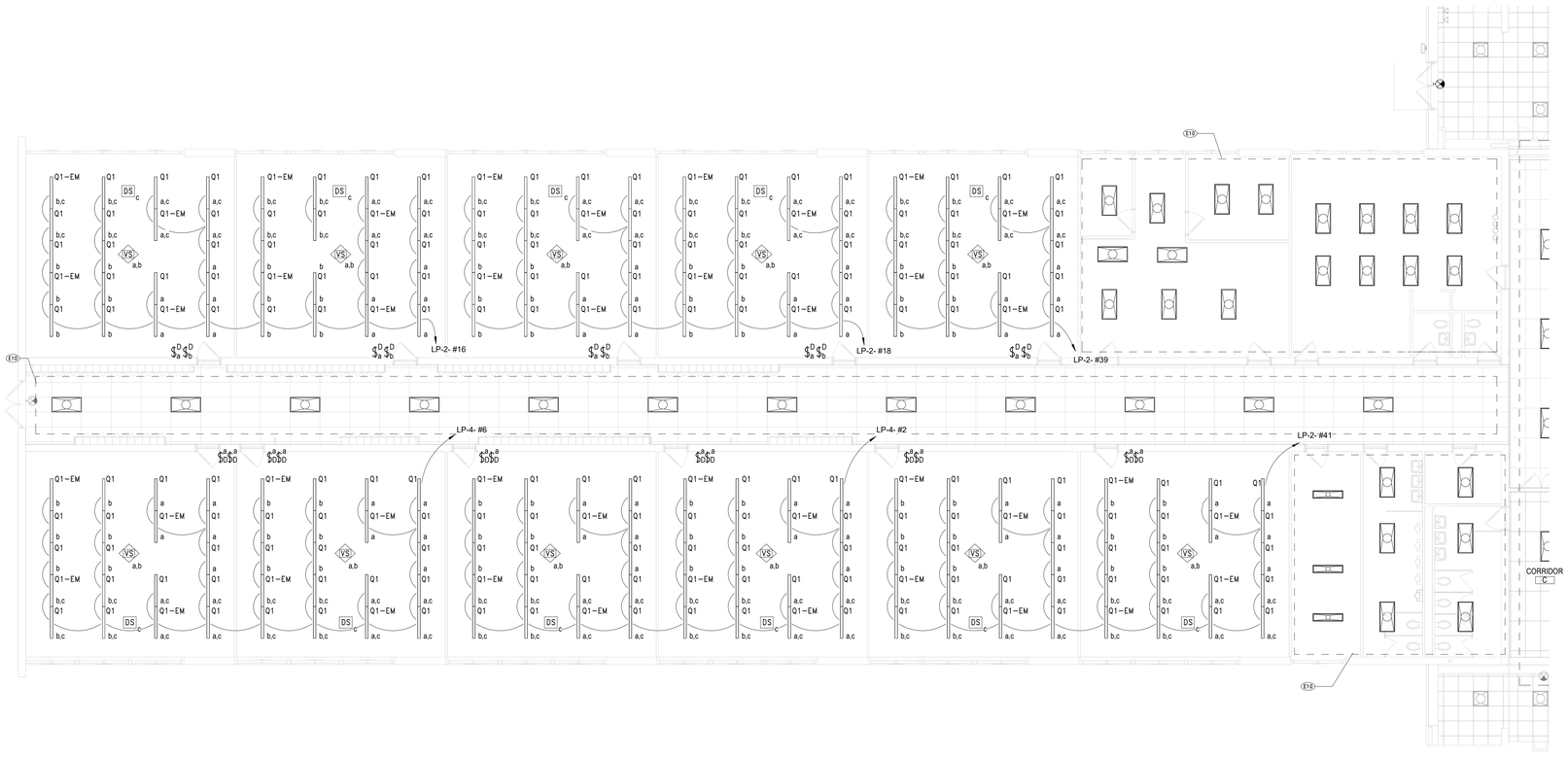
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D. REFER TO LIGHTING FIXTURE SCHEDULE ON E5.01.

KEY NOTES

E10	RE-INSTALL TEMPORARILY REMOVED LIGHTING FIXTURES AND SENSORS WITHIN DASHED AREA AFTER COMPLETION OF CEILING REPLACEMENT TO MATCH EXISTING CONDITIONS. EXTEND ASSOCIATED POWER BRANCH CIRCUIT CONDUIT AND WIRING AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).

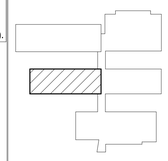


1 LIGHTING PLAN- AREA C
SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA C - PROPOSED LIGHTING

DWG TITLE

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BID PICK UP:	TBD
FILE No.	25-273

E3.03

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

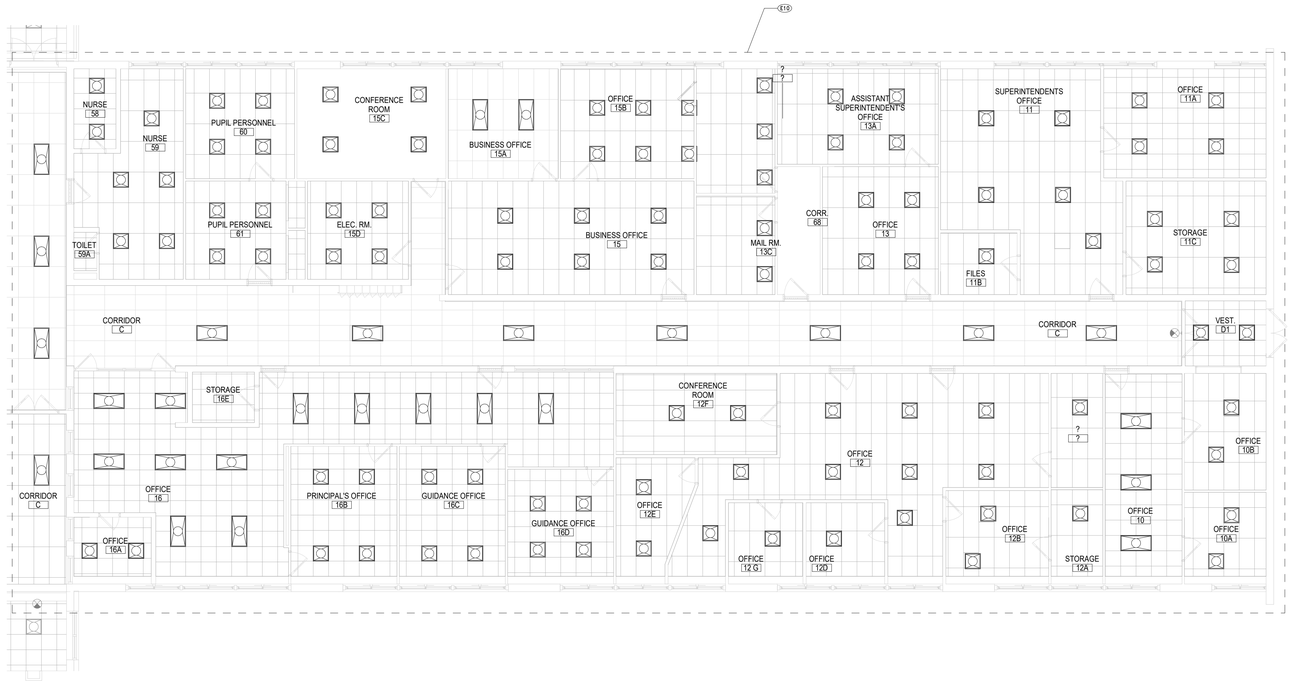
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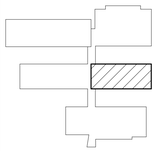


1 LIGHTING PLAN - AREA D
SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN
NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE
AREA D - PROPOSED LIGHTING

DRAWING BY: EEA
CHECKED BY: EEA

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SED No.	13-22-01-04-0-008-017
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILLBROOK MIDDLE SCHOOL
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E3.04

SHEET NOTES

A. FIELD COORDINATE ROUTING OF ALL FEEDERS AND BRANCH CIRCUITS.

B. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRE-STOPPED.

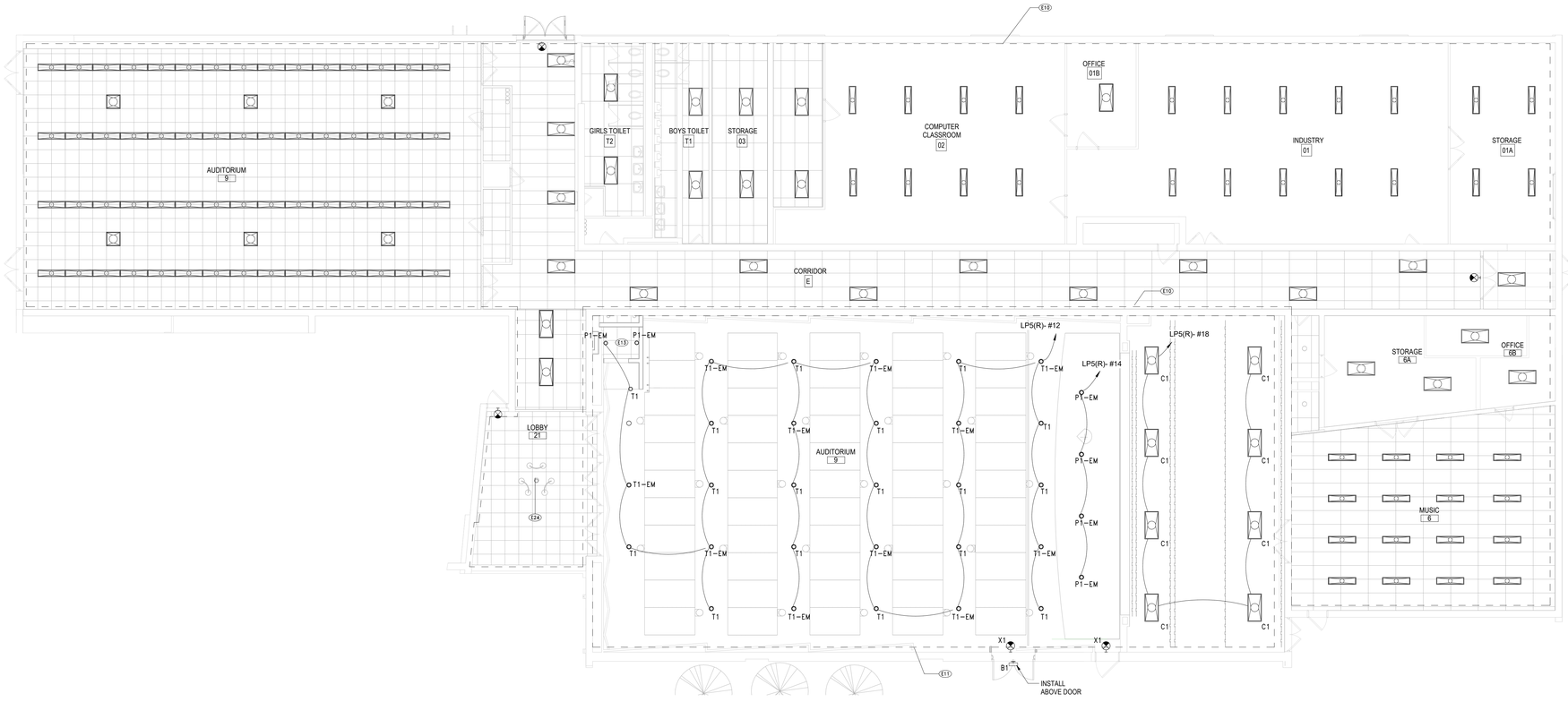
C. ALL EXIT SIGNS AND ELUS SHALL BE CIRCUITED TO LOCAL AREA LIGHTING CIRCUIT AHEAD OF ALL SWITCHING DEVICES. UTILIZE (2)#12, #12G. IN 3/4" CONDUIT.

D. REFER TO LIGHTING FIXTURE SCHEDULE ON E5.01.

E. COORDINATE WITH GC FOR PAINTING OF ALL SURFACE MOUNT CONDUIT INSTALLED UNDER THIS PROJECT.

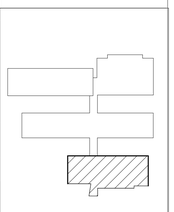
KEY NOTES

E10	RE-INSTALL TEMPORARILY REMOVED LIGHTING FIXTURES AND SENSORS WITHIN DASHED AREA AFTER COMPLETION OF CEILING REPLACEMENT TO MATCH EXISTING CONDITIONS. EXTEND ASSOCIATED POWER BRANCH CIRCUIT CONDUIT AND WIRING AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
E11	PROVIDE LIGHTING FIXTURES WITHIN DASHED AREA AND CONNECT TO PROPOSED CIRCUIT AS INDICATED. RE-USE LIGHTING CONTROLS.
E13	FIELD COORDINATE EXACT LIFT LIGHTING LOCATION. FIXTURE SHALL ILLUMINATE LIFT PLATFORM AND LANDINGS PER MANUFACTURER'S REQUIREMENTS.
E24	RE-INSTALL AND RECONNECT CHANDELIERS AFTER CEILING WORK.



1 LIGHTING PLAN - AREA E

SCALE: 1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

REV.	DATE	ITEM

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MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA E - PROPOSED LIGHTING

DWG TITLE

DRAWING BY: EEA

CHECKED BY: EEA

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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B MILBROOK MIDDLE SCHOOL
DWG TITLE	AREA E - PROPOSED LIGHTING
SCALE:	AS NOTED
DATE:	OCTOBER 26, 2026
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E3.05

WIRING SCHEDULE
THREE PHASE CONDUCTORS
COPPER CONDUCTORS (0-600V)

CIRCUIT RATING	CONDUIT SIZE (INCHES)			CONDUCTOR SIZE	
	G	NG	NGI	PHASE/ NEUTRAL	GND
20	0.75	0.75	0.75	12	12
30	0.75	0.75	0.75	10	10
40	0.75	0.75	0.75	8	10
50	0.75	0.75	0.75	8	10
60	0.75	1	1	6	10
70	1	1.25	1.25	4	8
80	1	1.25	1.25	4	8
90	1.25	1.25	1.25	3	8
100	1.25	1.25	1.25	3	8
110	1.25	1.25	1.5	2	6
125	1.25	1.5	2	1	6
150	1.5	2	2	1/0	6
175	2	2	2	2/0	6
200	2	2.5	2.5	3/0	6
225	2	2.5	2.5	4/0	4
250	2.5	2.5	2.5	250	4
300	2.5	2.5	3	350	4
350	3	3	3.5	500	3
400	(2)2	(2)2.5	(2)2.5	3/0	3
450	(2)2	(2)2.5	(2)2.5	4/0	2
500	(2)2.5	(2)2.5	(2)2.5	250	2
600	(2)2.5	(2)2.5	(2)3	350	1
700	(2)3	(2)3	(2)3.5	500	1/0
800	(3)2.5	(3)2.5	(3)3	300	1/0
1000	(3)2.5	(3)3	(3)3	400	2/0
1200	(4)2.5	(4)2.5	(4)3	350	3/0
1600	(5)2.5	(5)3	(5)3	400	4/0
2000	(6)2.5	(6)3	(6)4	500	250
2500	(7)3	(7)3	(7)3.5	500	350
3000	(8)3	(8)3	(8)3.5	500	400
3500	(10)3	(10)3	(10)3.5	500	500
4000	(11)3	(11)3.5	(11)3.5	500	500

SUBSCRIPT KEY

SUBSCRIPT	CONDUCTORS PER CONDUIT
G	3 PHASE CONDUCTORS 1 GROUNDING CONDUCTOR
NG	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR 1 GROUNDING CONDUCTOR
NGI	3 PHASE CONDUCTORS, 1 NEUTRAL CONDUCTOR 1 GROUNDING CONDUCTOR, 1 ISOLATED GROUNDING CONDUCTOR

WIRING SCHEDULE NOTES:

1. CURRENT CARRYING CONDUCTOR AMPACITY IS BASED ON NEC TABLE 310.15(B)(16), COPPER WITH INSULATION TEMPERATURE RATING OF 75 DEGREES C.
2. RACEWAY FILL SCHEDULE IS BASED ON COPPER CONDUCTORS WITH THHN, THWN OR THWN-2 INSULATION.
3. MAXIMUM FILL FOR RACEWAY IS BASED ON CHAPTER 9 TABLE 1 AND TABLE C.1 FOR ELECTRICAL METALLIC TUBING (EMT). ADJUST FILL AND RACEWAY SIZE FOR ANOTHER RACEWAY TYPE REQUIRED FOR THE APPLICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
4. IN ACCORDANCE WITH CHAPTER 9 NOTES TO TABLES, NOTE 3, THE GROUND CONDUCTOR IS INCLUDED IN THE FILL CALCULATION.

LOAD LETTER NOTE

A CENTRAL HUDSON LOAD LETTER HAS BEEN FILED.
CENTRAL HUDSON PROJECT: #556048
CENTRAL HUDSON PLANNER: JEN CANNELLA
PHONE: 1-(914)-755-8166
E-MAIL: JCANNELLA@CENHUD.COM

ELECTRIC SERVICE NOTE

EXISTING CENTRAL HUDSON ELECTRIC BILLS INDICATE A PEAK
ELECTRICAL DEMAND OF 224 KVA FOR THE MONTH OF OCTOBER 2025.

THE PROPOSED ADDITIONAL HVAC EQUIPMENT LOAD IS APPROXIMATELY 685 KVA.

THE HVAC EQUIPMENT TO BE REMOVED IS APPROXIMATELY 189 KVA.

THE TOTAL NEW LOAD TO THE SERVICE HAS BEEN CALCULATED TO BE APPROXIMETELY 1,011 KVA.

EC FIELD COORDINATION NOTES

FIELD-VERIFY LUG CONFIGURATIONS, LUG SIZES, AND COMPATIBILITY ON THE NEW TRANSFORMER SECONDARY AND THE EXISTING MDP MCB PRIOR TO PLACING THE WIRE ORDER.

EVALUATE AND COORDINATE ONE OF THE FOLLOWING COPPER FEEDER OPTIONS FOR FIELD INSTALLATION:

OPTION 1: (4) SETS OF 4#350MCM, #3/0G, 3-1/2"C [1,240A TOTAL AMPACITY]
OPTION 2: (3) SETS OF 4#600MCM, #3/0G, 4"C [1,260A TOTAL AMPCITY]

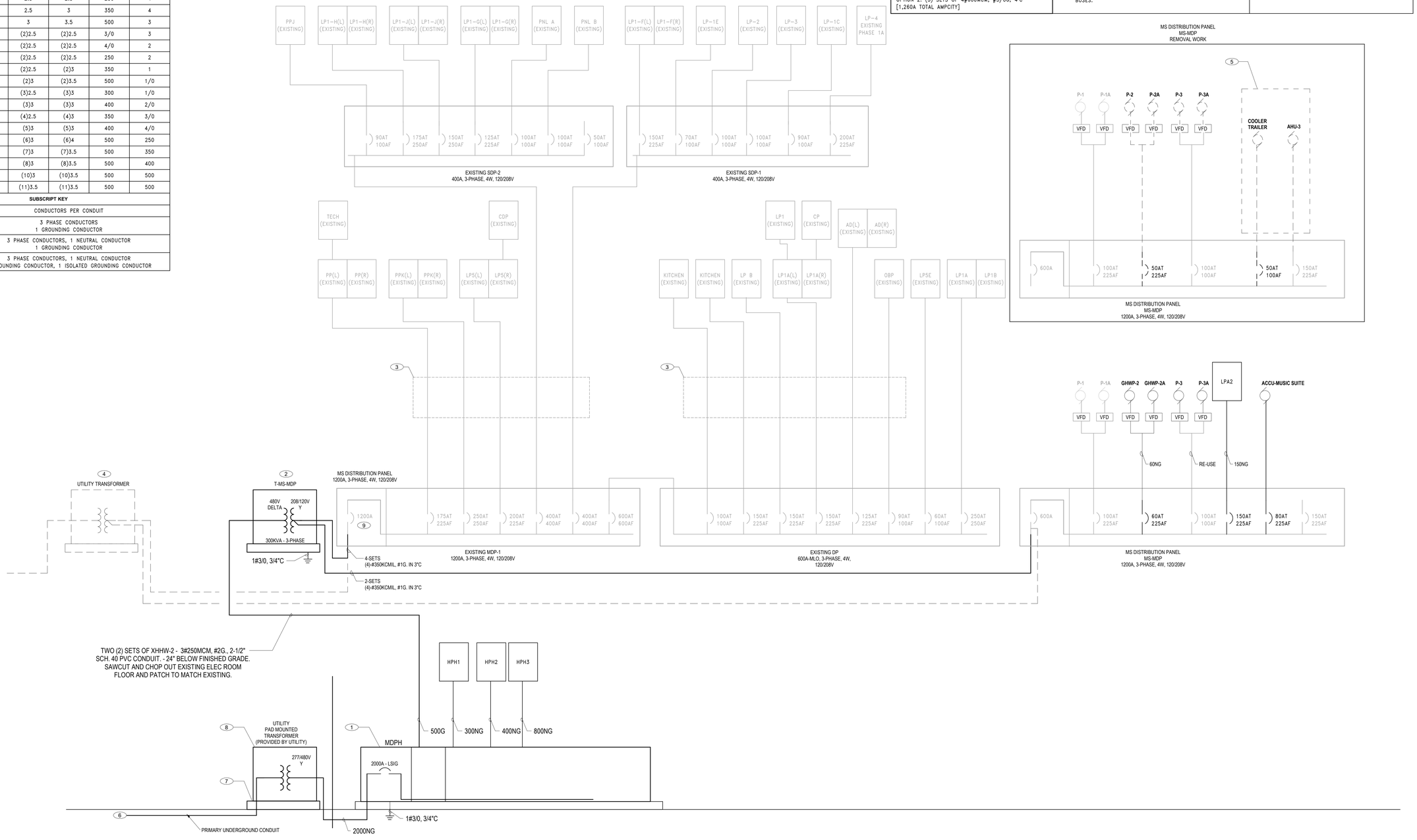
SHEET NOTES

1. PROVIDE 2000A-RATED, 1200A MCB, 480/277V, 3-PHASE, 4-WIRE MAIN SERVICE SWITCHBOARD. BOARD SHALL BE PROVIDED WITH GROUND-FAULT AND PHASE-LOSS PROTECTION, CURRENT AND POTENTIAL TRANSFORMERS FOR METERS AND PEAK LOAD CONTROLLER.
2. PROVIDE PAD-MOUNTED STEP-DOWN TRANSFORMER AS INDICATED TO SERVE EXISTING 208/120V PANELS.
3. EXISTING PULLBOX BOX.
4. COORDINATE WITH UTILITY COMPANY TO DE-ENERGIZE AND DISCONNECT UTILITY TRANSFORMER. REMOVE SECONDARY FEEDERS IN PREPARATION FOR SERVICE UPGRADE.
5. DE-ENERGIZE AND DISCONNECT MECHANICAL EQUIPMENT. PULL BACK AND REMOVE ASSOCIATED FEEDERS AND DISCONNECTING MEANS. LABEL ASSOCIATED BREAKERS AS SPARES.
6. UTILITY COMPANY (CENTRAL HUDSON) TO REMOVE AND REPLACE PRIMARY IN EXISTING UNDERGROUND CONDUIT.
7. EXISTING TRANSFORMER PAD TO BE RE-USED BY UTILITY COMPANY FOR UTILITY PROVIDED TRANSFORMER.
8. MAIN SERVICE UTILITY TRANSFORMER TO BE PROVIDED BY UTILITY COMPANY. COORDINATE TRANSFORMER INSTALLATION AND SECONDARY FEEDER CONNECTION.
9. EXISTING MAIN BONDING JUMPER (NEUTRAL-TO-GROUND BOND) WITHIN EXISTING MS-MDP PANELBOARD TO BE PERMANENTLY REMOVED. PANEL SHALL FUNCTION AS A DOWNSTREAM DISTRIBUTION BOARD WITH ISOLATED NEUTRAL AND GROUND BUSES.

SHEET NOTES

A. REMOVAL OF ELECTRICAL SERVICE SHALL BE CAREFULLY COORDINATED WITH CONSTRUCTION MANAGER AND UTILITY COMPANY TO ASSURE THAT ELECTRIC SERVICE SHUT DOWN IS MINIMAL. REMOVAL OF EXISTING FEEDERS AND UTILITY TRANSFORMER SHALL OCCUR AFTER INSTALLATION OF NEW TRANSFORMER, 480V-MDP, AND 208V STEP DOWN TRANSFORMER.

B. RISER DIAGRAM AS SHOWN IS BASED ON EXISTING PLANS AND FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY POWER DISTRIBUTION AS SHOWN.



1 NEW WORK POWER RISER DIAGRAM

NTS

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PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE

POWER RISER DIAGRAM

DRAWING BY: EEA
CHECKED BY: EEA

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E4.01

Electrical Fixture Schedule PH1B

Mark	DESCRIPTIONN	VOLTAGE	PHASE	AMPS	Panel	Circuit Number	CIRCUIT BREAKER	CONDUIT AND WIRING	FSD	DUCT SMOKE DETECTOR	NOTES
BCC-A1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-A2	7,9	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-B1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-A2	7,9	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-C1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-A2	7,9	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-D1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-A2	7,9	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-E1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-2	9,11	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-F1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-2	9,11	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-G1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-2	9,11	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-H1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-2	9,11	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-I1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-3	12,14	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-J1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-3	12,14	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-K1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-3	12,14	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-M1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP-3	12,14	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-N1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	LP1-G(L)	26,28	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
BCC-O1	BRANCH BOX CONTROLLER	208V	1	0.38 MCA	AD(R)	19,21	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1A	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LPA2	26	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1B	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	30	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1C	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP-2	8	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1D	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP-3	9	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1F	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	AD(R)	1	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-1F2	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	AD(R)	1	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-2A	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LPA2	26	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-2B	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	30	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-2C	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP-2	8	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-2D	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP-3	9	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-3A	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LPA2	26	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-3B	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	30	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-C-3C	CORRIDOR CABINET HEATER	120V	1	2.75 MCA	LP-2	8	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-GYM STOR 40C	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-H(R)	14	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-PE OFFICE 40B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-H(R)	14	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM01	HOT WATER CABINET HEATER	120V	1	6.07 MCA	AD(R)	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM01A	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(R)	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM2-1	HOT WATER CABINET HEATER	120V	1	6.07 MCA	PPK(L)	32	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM2-2	HOT WATER CABINET HEATER	120V	1	6.07 MCA	PPK(L)	30	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM2-3	HOT WATER CABINET HEATER	120V	1	6.07 MCA	PPK(L)	28	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM2-4	HOT WATER CABINET HEATER	120V	1	6.07 MCA	PPK(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM03	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(L)	25	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM4A	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(R)	17	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM4B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(R)	17	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM6A	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-B	26	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM11	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	22	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM11B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	22	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM12	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-3	7	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM12A	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-3	7	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM12F	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-3	7	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM13	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	22	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM13C	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	22	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM15	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP-1F(R)	40	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM16-1	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP-3	5	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM16-2	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP-3	5	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM16E	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-3	5	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM18	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-2	2	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM19	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP-2	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM37-1	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP1-J(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM37-2	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP1-J(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM37B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-J(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM37C	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-J(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM37D	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-J(L)	6	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM38	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	29	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM39	HOT WATER CABINET HEATER	120V	1	6.07 MCA	PPK(L)	30	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM40-1	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP1-H(R)	14	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM40-2	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LP1-H(R)	14	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM40D	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-H(R)	14	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM41B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	29	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM42	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	27	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM44	HOT WATER CABINET HEATER	120V	1	6.08 MCA	LPA2	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM44B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP1-G(R)	29	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM45-1	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LPA2	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM45-2	HOT WATER CABINET HEATER	120V	1	3.88 MCA	LPA2	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM45B	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	3	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM58	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	5	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM59	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	40	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM61	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-1F(R)	40	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RM 59	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	5	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT1	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(L)	25	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT2	HOT WATER CABINET HEATER	120V	1	2.75 MCA	AD(L)	25	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT3	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-2	2	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT4	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LP-2	2	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT5	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	27	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
CH-RMT6	HOT WATER CABINET HEATER	120V	1	2.75 MCA	LPA2	27	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
DOAS-AUDITORIUM WING - CLASSROOMS	DOAS UNIT	480V	3	22.4 MCA	HPH1	13,15,17	30A-3P	(3)#10,#10. IN 3/4"C.	Yes	Yes	2
DOAS-AUDITORIUM WING- MUSIC SUITE	DOAS UNIT	480V	3	10.6 MCA	HPH1	20,22,24	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
DOAS-CAFETERIA	DOAS UNIT	480V	3	34.1 MCA	HPH1	8,10,12	50A-3P	(3)#6,#10G. IN 1"C.	Yes	Yes	2
DOAS-GYM WING-CLASSRM A	DOAS UNIT	480V	3	54 MCA	HPH3	28,30,32	60A-3P	(3)#4,#6G. IN 1-1/4"C.	Yes	Yes	2
DOAS-GYM WING-CLASSRM B	DOAS UNIT	480V	3	54 MCA	HPH3	31,33,35	60A-3P	(3)#4,#6G. IN 1-1/4"C.	Yes	Yes	2
DOAS-GYM WING-LOCKER SCIENCE SUITE A	DOAS UNIT	480V	3	40.9 MCA	HPH3	43,45,47	50A-3P	(3)#6,#10G. IN 1"C.	Yes	Yes	2
DOAS-GYM WING-LOCKER SCIENCE SUITE B	DOAS UNIT	480V	3	34.1 MCA	HPH3	49,51,53	50A-3P	(3)#6,#10G. IN 1"C.	Yes	Yes	2
DOAS-MIDDLE WING - CLASSRM A	DOAS UNIT	480V	3	34.1 MCA	HPH2	16,18,20	50A-3P	(3)#6,#10G. IN 1"C.	Yes	Yes	2
DOAS-MIDDLE WING - CLASSRM B	DOAS UNIT	480V	3	34.1 MCA	HPH2	19,21,23	50A-3P	(3)#6,#10G. IN 1"C.	Yes	Yes	2
DOAS-MIDDLE WING-OFFICE SUITE	DOAS UNIT	480V	3	18.3 MCA	HPH2	28,30,32	25A-3P	(3)#10,#10. IN 3/4"C.	No	No	
ECH-ELEC RM 14	ELECTRIC CABINET HEATER	480V	1	3.8 FLA	HPH3	18,20	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-ELEC RM 15D	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH2	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-JC7	ELECTRIC CABINET HEATER	480V	1	3.8 FLA	HPH2	6,8	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-JC 16B	ELECTRIC CABINET HEATER	480V	1	3.8 FLA	HPH3	2,4,6	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-MEN TOILET 57	ELECTRIC CABINET HEATER	480V	1	3.8 FLA	HPH3	21,23	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-MEN TOILET 96	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	17,19	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-PASSAGE 40E-1	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH3	7,9,11	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-PASSAGE 40E-2	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH3	12,14,16	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-PE OFF STOR 37B	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	13,15	15A-2P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-PE OFF STOR 40B	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	8,10	15A-2P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-PE OFF TOILET 37B	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	13,15	15A-2P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-PE OFF TOILET 40B	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	8,10	15A-2P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-VEST A1	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH3	1,3,5	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-VEST B1	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH3	2,4,6	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-VEST-D1	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH2	1,3,5	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-VEST-E1	ELECTRIC CABINET HEATER	480V	3	3.1 FLA	HPH2	7,9,11	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-VEST-E2	ELECTRIC CABINET HEATER	480V	3	4.3 FLA	HPH1	1,3,5	15A-3P	(3)#12,#12G. IN 3/4"C.	No	No	
ECH-WOMEN TOILET 56	ELECTRIC CABINET HEATER	480V	1	3.8 FLA	HPH3	21,23	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
ECH-WOMEN TOILET 95	ELECTRIC CABINET HEATER	480V	1	3.1 FLA	HPH3	17,19	15A-2P	(3)#12,#12G. IN 3/4"C.	No	No	
GHWP-2	PUMP	208V	3	32.2 FLA	MS-MDP	9	60A-3P	(3)#4,#8G. IN 1-1/4"C.			
GHWP-2A	PUMP	208V	3	32.2 FLA	MS-MDP	10	60A-3P	(3)#4,#8G. IN 1-1/4"C.			
LIFT	HOT WATER CABINET HEATER	120V	1	6.07 MCA	LP5(R)	16	15A-1P	(2)#12,#12G. IN 3/4"C.	No	No	
P-3	PUMP	208V	3	48.3 FLA			100A-3P	EXISTING			
P-3A	PUMP	208V	3	48.3 FLA			100A-3P	EXISTING			
P-4	PUMP	208V	3	25.3 FLA			50A-3P	EXISTING			
P-4A	PUMP	208V	3	25.3 FLA			50A-3P	EXISTING			
RTU-AUDITORIUM-STAGE	ROOF TOP UNIT	480V	3	162.7 MCA	MDPH	1	200A-3P	(3)#3/0, #6G. IN 2-1/2"C.	Yes	Yes	
RTU-BAND ROOM	ROOF TOP UNIT	480V	3	23.5 MCA	HPH1	14,16,18	30A-3P	(3)#10,#10. IN 3/4"C.	Yes	Yes	
RTU-GYM A	ROOF TOP UNIT	480V	3	58 MCA	HPH3	40,42,44	80A-3P	(3)#1,#6G. IN 1-1/2"C.	Yes	Yes	
RTU-GYM B	ROOF TOP UNIT	480V	3	58 MCA	HPH3	46,48,50	80A-3P	(3)#1,#6G. IN 1-1/2"C.	Yes	Yes	
RTU-LOBBY	ROOF TOP UNIT	480V	3	11.1 MCA	HPH1	2,4,6	15A-3P	(3)#12,#12G. IN 3/4"C.	No	Yes	

Electrical Fixture Schedule PH1B AC RM

Mark	DESCRIPTIONN	VOLTAGE	PHASE	AMPS	Panel	Circuit Number	CIRCUIT BREAKER	CONDUIT AND WIRING	FSD	DUCT SMOKE DETECTOR	NOTES
ACCU-TRANSFORMER	OUTDOOR UNIT	208V	1	22 MCA	PPK(L)	34,36	40A-3P	(2)#8,#10G. IN 3/4"C.	No	No	
ACCU-RM42	OUTDOOR UNIT	208V	1	25 MCA	LPA2	19,21	40A-2P	(2)#8,#10G. IN 3/4"C.	No	No	
ACCU-OFFICES-D	OUTDOOR UNIT	480V	3	22 MCA	HPH2	40,42,44	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-OFFICES-C	OUTDOOR UNIT	480V	3	22 MCA	HPH2	34,36,38	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-OFFICES-B	OUTDOOR UNIT	480V	3	22 MCA	HPH2	37,39,41	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-OFFICES-A	OUTDOOR UNIT	480V	3	22 MCA	HPH2	31,33,35	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-MUSIC-SUITE	OUTDOOR UNIT	208V	1	45 MCA	MS-MDP	7	80A-2P	(2)#1,#6G. IN 1-1/2"C.	No	No	
ACCU-GIRLS-LOCKERS	OUTDOOR UNIT	208V	1	45 MCA	LPA2	18,20	80A-2P	(2)#4,#6G. IN 1-1/4"C.	No	No	
ACCU-CAFETERIA	OUTDOOR UNIT	480V	3	22 MCA	HPH1	7,9,11	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-BOYS-LOCKERS	OUTDOOR UNIT	208V	1	45 MCA	LPA2	4,6	80A-2P	(2)#4,#6G. IN 1-1/4"C.	No	No	
ACCU-53-55-57-59	OUTDOOR UNIT	480V	3	22 MCA	HPH3	22,24,26	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-52-54-56-58	OUTDOOR UNIT	480V	3	22 MCA	HPH3	25,27,29	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-47-49-51	OUTDOOR UNIT	480V	3	22 MCA	HPH3	34,36,38	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-46-48-50	OUTDOOR UNIT	480V	3	22 MCA	HPH3	37,39,41	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-38-41-44-45	OUTDOOR UNIT	480V	3	27 MCA	HPH3	52,54,56	45A-3P	(3)#6,#10G. IN 1"C.	No	No	
ACCU-26-28-30	OUTDOOR UNIT	480V	3	22 MCA	HPH2	13,15,17	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-25-27-29	OUTDOOR UNIT	480V	3	22 MCA	HPH2	10,12,14	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-18-20-22-24	OUTDOOR UNIT	480V	3	22 MCA	HPH2	25,27,29	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-17A-19-21-23	OUTDOOR UNIT	480V	3	22 MCA	HPH2	22,24,26	35A-3P	(3)#8,#10G. IN 3/4"C.	No	No	
ACCU-01-02-03	OUTDOOR UNIT	480V	3	27 MCA	HPH1	19,21,23	45A-3P	(3)#6,#10G. IN 1"C.	No	No	
AC-TRANSFORMER	INDOOR UNIT	208V	1	0.51 MCA	PPK(L)	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM61	INDOOR UNIT	208V	1	0.51 MCA	LP-1F(R)	18,20	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM60	INDOOR UNIT	208V	1	0.51 MCA	LP-1F(R)	18,20	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM59-OFF	INDOOR UNIT	208V	1	0.51 MCA	LP-1F(R)	18,20	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM59	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM58-OFF	INDOOR UNIT	208V	1	0.51 MCA	LP-1F(R)	18,20	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM58	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM57	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM56	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM55	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM54	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM53	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM52	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM51	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM50	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM49	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM48	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM47	INDOOR UNIT	208V	1	0.51 MCA	LPA2	13,15	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM46	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM45B	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM45	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM44B	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM44	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM42	INDOOR UNIT	208V	1	0.51 MCA	LPA2	14,16	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	3
AC-RM41B	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM41	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM38	INDOOR UNIT	208V	1	0.51 MCA	LPA2	8,10	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM37D-GIRLS	INDOOR UNIT	208V	1	0.51 MCA	LP1-H(R)	16,18	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM37D-BOYS	INDOOR UNIT	208V	1	0.51 MCA	LP1-J(L)	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM37C-GIRLS	INDOOR UNIT	208V	1	0.51 MCA	LP1-H(R)	16,18	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM37C-BOYS	INDOOR UNIT	208V	1	0.51 MCA	LP1-J(L)	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM37B-GIRLS	INDOOR UNIT	208V	1	0.51 MCA	LP1-H(R)	16,18	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM37B	INDOOR UNIT	208V	1	0.51 MCA	LP1-J(L)	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM37-GIRLS	INDOOR UNIT	208V	1	0.51 MCA	LP1-H(R)	16,18	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM37-BOYS	INDOOR UNIT	208V	1	0.51 MCA	LP1-J(L)	2,4	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	1
AC-RM30	INDOOR UNIT	208V	1	0.51 MCA	LP-2	5,7	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM29	INDOOR UNIT	208V	1	0.51 MCA	LP-2	1,3	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM28	INDOOR UNIT	208V	1	0.51 MCA	LP-2	5,7	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM27	INDOOR UNIT	208V	1	0.51 MCA	LP-2	1,3	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM26	INDOOR UNIT	208V	1	0.51 MCA	LP-2	5,7	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM25	INDOOR UNIT	208V	1	0.51 MCA	LP-2	1,3	15A-2P	(2)#12,#12G. IN 3/4"C.	No	No	
AC-RM24	INDOOR UNIT	208V	1	0.51

Switchboard: MDPH

Location: TRANSFORMER VAULT ROOM
Supply From: UTILITY
Mounting:
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 65000
Mains Type: MCB
Mains Rating: 2000 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	A	B	C	TOTAL	Remarks
1	RTU-AUD STAGE	3	225 A	200 A	41519 VA	41519 VA	41519 VA	124557 VA	
2	HPH3	3	800 A	800 A	114946 VA	114745 VA	114544 VA	344235 VA	
3	HPH2	3	400 A	400 A	68794 VA	67507 VA	68050 VA	204350 VA	
4	HPH1	3	400 A	300 A	37672 VA	37672 VA	37672 VA	113015 VA	
5	T-MS-MDP	3	500 A	500 A	74667 VA	74667 VA	74667 VA	224000 VA	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Total Conn. Load: 1010157 VA
Total Amps: 1215 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	265306 VA	100.00%	265306 VA		
Power	744851 VA	100.00%	744851 VA	**Total Conn. Load:**	1010157 VA
				Total Est. Demand:	1010157 VA
				Total Conn. Current:	1215 A
				Total Est. Demand Current:	1215 A

Notes:

Branch Panel: HPH1

Location: JANITOR'S CLOSET 7
Supply From: MDPH
Mounting: SURFACE
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22K
Mains Type: 400A NON-AUTO SW
Mains Rating: 300 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ECH-VEST E2	15 A	3	858.1 VA	2767.9 VA					3	15 A	RTU-LOBBY	2
3	--	--	--			858.1 VA	2767.9 VA			--	--	--	4
5	--	--	--					858.1 VA	2767.9 VA	--	--	--	6
7	ACCU-CAFETERIA	35 A	3	5535.9 VA	8303.8 VA					3	50 A	DOAS-CAFETERIA	8
9	--	--	--			5535.9 VA	8303.8 VA			--	--	--	10
11	--	--	--					5535.9 VA	8303.8 VA	--	--	--	12
13	DOAS-AUD-WING-CLSRMS	30 A	3	5535.9 VA	5535.9 VA					3	30 A	RTU BAND RM	14
15	--	--	--			5535.9 VA	5535.9 VA			--	--	--	16
17	--	--	--					5535.9 VA	5535.9 VA	--	--	--	18
19	ACCU-01-02-03	45 A	3	6366.2 VA	2767.9 VA					3	15 A	DOAS-AUD WING-MUSIC SUITE	20
21	--	--	--			6366.2 VA	2767.9 VA			--	--	--	22
23	--	--	--					6366.2 VA	2767.9 VA	--	--	--	24
25													26
27													28
29													30
			Total Load:	37672 VA		37672 VA		37672 VA					
			Total Amps:	136 A		136 A		136 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2574 VA	100.00%	2574 VA		
Power	110441 VA	100.00%	110441 VA	**Total Conn. Load:**	113015 VA
				Total Est. Demand:	113015 VA
				Total Conn. Current:	136 A
				Total Est. Demand Current:	136 A

Notes:

Branch Panel: AD(L)

Location:
Supply From:
Mounting: RECESSED
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	BAND RM LTG (E)	20 A	1	0 VA	0 VA					1	20 A	SHOP LIGHTS 1 (E)	2
3	PRACTICE RM LTG (E)	20 A	1			0 VA	0 VA			1	20 A	SHOP LIGHTS 3 (E)	4
5	HALLWAY OUTLETS (E)	20 A	1					0 VA	0 VA	1	20 A	SHOP LIGHTS 4 (E)	6
7	MUSIC STAIR LTG (E)	20 A	1	0 VA	0 VA					3	15 A	RTU #4 (E)	8
9	PRACTICE RM OUTLETS (E)	20 A	1			0 VA	0 VA			--	--	--	10
11	PRACTICE RM OUTLETS (E)	20 A	1					0 VA	0 VA	--	--	--	12
13	MUSIC RM OUTLETS (E)	20 A	1	0 VA	0 VA					1	20 A	EM LTG (E)	14
15	MUSIC STAGE LTG (E)	20 A	1			0 VA	0 VA			1	20 A	TBS (E)	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	RTU-4 OUTLET (E)	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	SHOP LTG/SMOKE EATER (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	CH-RMT2; T1; 03	20 A	1	720 VA	540 VA					1	20 A	ROOF TOP CONV RECEPT	26
27	AC-RM03; 02; 01-1; 01-2; 01A	20 A	2			477.4 VA	540 VA			1	20 A	ROOF TOP CONV RECEPT	28
29	--	--	--					477.4 VA					30
			Total Load:	1260 VA		1017 VA		477 VA					
			Total Amps:	11 A		9 A		4 A					

Notes:
EXISTNG PANEL

Branch Panel: LP-1F(R)

Location:
Supply From:
Mounting: RECESSED
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: 225A MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 11 RECP (E)	20 A	1	0 VA	0 VA					1	20 A	TAX OFFICE LTG (E)	2
3	RM 11 RECP (E)	20 A	1			0 VA	0 VA			1	20 A	TAX OFFICE RECEPT (E)	4
5	RM 11 RECP (E)	20 A	1					0 VA	0 VA	1	20 A	RM 13 LTG (E)	6
7	LIBRARY WK RM (E)	20 A	1	0 VA	0 VA					1	20 A	RM 11 RECEPT (E)	8
9	LIBRARY CONF RM (E)	20 A	1			0 VA	0 VA			1	20 A	RM 11 RECEPT (E)	10
11	RM 11 LTG (E)	20 A	1					0 VA	0 VA	2	30 A	RM 11 220V DRYER (E)	12
13	RM 11 LTG (E)	20 A	1	0 VA	0 VA					--	--	--	14
15	RM 11 LTG (E)	20 A	1			0 VA	0 VA			1	20 A	SERVICE CLOSET (E)	16
17	RM 11 WASHER (E)	20 A	1					0 VA	424.3 VA	2	20 A	AC-RM58-OFF; 59-OFF; 60; 61; 15C; 15A...	18
19	RM 10 RECEPT/LTS (E)	20 A	1	0 VA	424.3 VA					--	--	--	20
21	RM 10 RECEPT (E)	20 A	1			0 VA	960 VA			1	20 A	CH-RM13C; 13; 11B; 11	22
23	RM 11 RECEPT (E)	20 A	1					0 VA	0 VA	1	20 A	SERVICE CLOSET (E)	24
25	RM 11 RECEPT (E)	20 A	1	0 VA	0 VA					1	20 A	SERVICE CLOSET (E)	26
27	RM 11 RECEPT (E)	20 A	1			0 VA	0 VA			2	20 A	220V A/C	28
29	RM 13 RECEPT (E)	20 A	1					0 VA	0 VA	--	--	--	30
31	RM 13 RECEPT (E)	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	RM 11 RECEPT (E)	20 A	1			0 VA	0 VA			1	20 A	RECEPT (E)	34
35	RM 11 RECEPT (E)	20 A	1					0 VA	424.3 VA	2	20 A	AC-RM13B; 13C; 13A; 13; 11B; 11; 11A;...	36
37	LIBRARY RECEPT (E)	20 A	1	0 VA	424.3 VA					--	--	--	38
39	LIBRARY RECEPT (E)	15 A	1			0 VA	720 VA			1	20 A	CH-RM59; 61; 15	40
41	Spare	15 A	1					0 VA					42
			Total Load:	849 VA		1680 VA		849 VA					
			Total Amps:	7 A		14 A		7 A					

Notes:
EXISTING PANEL

Branch Panel: AD(R)

Location:
Supply From:
Mounting: RECESSED
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CH-C-1F; 1F2	20 A	1	480 VA	0 VA					1	20 A	ART RM LTG (E)	2
3	CH-RM01; 01A	20 A	1			840 VA	0 VA			1	20 A	ART RM LTG (E)	4
5	FAN FINISH RM (E)	20 A	1					0 VA	0 VA	1	20 A	ART RM LTG (E)	6
7	SHOP LIGHTS & STAIRS (E)	20 A	1	0 VA	0 VA					1	20 A	Spare	8
9	EM LIGHTS (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	10
11	POTATO PEELER/JUICE MACHINE (E)	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	ART RM UH (E)	20 A	1	0 VA	0 VA					1	20 A	Spare	14
15	OUTLET BAKER TABLE (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	CH-RM4A; 4B	20 A	1					480 VA	0 VA	1	20 A	Spare	18
19	BCC-01	15 A	2	39.5 VA	0 VA					1	20 A	Spare	20
21	--	--	--			39.5 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	15 A	3	0 VA	0 VA					3	15 A	Spare	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
			Total Load:	520 VA		880 VA		480 VA					
			Total Amps:	4 A		7 A		4 A					

Notes:
EXISTING PANEL

Branch Panel: HPH2

Location: ELEC. RM. 15D
Supply From: MDPH
Mounting: SURFACE
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 22K
Mains Type: 400A NON-AUTO SW
Mains Rating: 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ECH-VEST D1	15 A	3	858.1 VA	744 VA					2	20 A	ECH-ELEC RM 15D	2
3	--	--	--			858.1 VA	744 VA			--	--	--	4
5	--	--	--					858.1 VA	1287.1 VA	2	20 A	ECH-JC7	6
7	ECH-VEST- E1	20 A	3	858.1 VA	1287.1 VA					--	--	--	8
9	--	--	--			858.1 VA	5535.9 VA			3	35 A	ACCU-25-27-29	10
11	--	--	--					858.1 VA	5535.9 VA	--	--	--	12
13	ACCU-26-28-30	35 A	3	5535.9 VA	5535.9 VA					--	--	--	14
15	--	--	--			5535.9 VA	8303.8 VA			3	50 A	DOAS-MIDDLE WING- CLASSRM A	16
17	--	--	--					5535.9 VA	8303.8 VA	--	--	--	18
19	DOAS-MIDDLE WING- CLASSRM B	50 A	3	8303.8 VA	8303.8 VA					--	--	--	20
21	--	--	--			8303.8 VA	5535.9 VA			3	35 A	ACCU-17A-18-21-23	22
23	--	--	--					8303.8 VA	5535.9 VA	--	--	--	24
25	ACCU-18-20-22-24	35 A	3	5535.9 VA	5535.9 VA					--	--	--	26
27	--	--	--			5535.9 VA	4151.9 VA			3	25 A	DOAS-MIDDLE WING- OFFICE SUITE	28
29	--	--	--					5535.9 VA	4151.9 VA	--	--	--	30
31	ACCU-OFFICES A	35 A	3	5535.9 VA	4151.9 VA					--	--	--	32
33	--	--	--			5535.9 VA	5535.9 VA			3	35 A	ACCU-OFFICES C	34
35	--	--	--					5535.9 VA	5535.9 VA	--	--	--	36
37	ACCU-OFFICES B	35 A	3	5535.9 VA	5535.9 VA					--	--	--	38
39	--	--	--			5535.9 VA	5535.9 VA			3	35 A	ACCU-OFFICES D	40
41	--	--	--					5535.9 VA	5535.9 VA	--	--	--	42
43					5535.9 VA					--	--	--	44
45													46
47													48
49													50
51													52
53													54
55													56
			Total Load:	68794 VA		67507 VA		68050 VA					
			Total Amps:	249 A		244 A		246 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	9211 VA	100.00%	9211 VA		
Power	195139 VA	100.00%	195139 VA	**Total Conn. Load:**	204350 VA
				Total Est. Demand:	204350 VA
				Total Conn. Current:	246 A
				Total Est. Demand Current:	246 A

Notes:

Branch Panel: LP1-G(R)

Location: CORRIDOR A
Supply From:
Mounting: RECESSED
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 10,000
Mains Type: MLO
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 44 OUTLETS (E)	20 A	1	0 VA	0 VA					1	20 A	RM 45 LTG (E)	2
3	RM 45 OUTLETS (E)	20 A	1			0 VA	0 VA			1	20 A	TUNNEL LTG (E)	4
5	OCCU LTG (E)	20 A	1					0 VA	0 VA	1	20 A	EF 16 (E)	6
7	HALL LTG (E)	20 A	1	0 VA	0 VA					1	20 A	EF 17 (E)	8
9	HALL LTG (E)	20 A	1			0 VA	0 VA			1	20 A	HOME EC HOOD (E)	10
11	SCIENCE TABLE (E)	20 A	1					0 VA	0 VA	2	20 A	HOME EC RANGE (E)	12
13	VACCUM CLEANER (E)	20 A	1	0 VA	0 VA					--	--	--	14
15	SCIENCE TABLE RM 45 (E)	20 A	1			0 VA	0 VA			2	20 A	HOME EC RANGE (E)	16
17	RECEPT (E)	20 A	1					0 VA	0 VA	--	--	--	18
19	RECEPT (E)	20 A	1	0 VA	0 VA					1	20 A	REF-ELEV-B & FSD	20
21	SCIENCE TABLE RM 45 (E)	20 A	1			0 VA	4680 VA			2	50 A	ECH-C-2	22
23	SCIENCE TABLE RM 45 (E)	20 A	1					0 VA	4680 VA	--	--	--	24
25	SERVER CLOSET/VACCUM CLEANER...	20 A	1	0 VA	600 VA					1	20 A	ECH-C-2 MOTORIZED DAMPER	26
27	Spare	20 A	1			0 VA	660 VA			1	20 A	CH-C-2A	28
29	CH-RM41B; 44B; 38	20 A	1					720 VA	720 VA	1	20 A	CH-C-1B; 2B; 3B	30
			Total Load:	600 VA		5340 VA		6120 VA					
			Total Amps:	5 A		51 A		57 A					

Notes:
EXISTING PANEL

Branch Panel: LP-1F(L)

Location:
Supply From:
Mounting: RECESSED
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: 225A MLO
Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RM 14 LTG (E)	20 A	1	0 VA	0 VA					1	20 A	BASEBOARD HEAT (E)	2
3	RM 14 LTG (E)	20 A	1			0 VA	0 VA			1	20 A	RM 11 LTG (E)	4
5	RM 14 LTG (E)	20 A	1					0 VA	0 VA	1	20 A	LIBRARY SOUTH RECEPT (E)	6
7	RM 13 RECEPT (E)	20 A	1	0 VA	0 VA					2	30 A	BUSINESS OFFICE 220 A/C	8
9	RM 11 OUTLETS (E)	20 A	1			0 VA	0 VA			--	--	--	10
11	RM 11 OUTLETS (E)	20 A	1					0 VA	0 VA	2	20 A	A/C (E)	12
13	RM 11 OUTLETS (E)	20 A	1	0 VA	0 VA					--	--	--	14
15	RM 13 OUTLETS (E)	20 A	1			0 VA	0 VA			1	20 A	PSYCH OFFICE OUTLETS (E)	16
17	RM 11 OUTLETS (E)	20 A	1					0 VA	0 VA	2	30 A	A/C BUS OFFICE (E)	18
19	RM 12 OUTLETS (E)	20 A	1	0 VA	0 VA					--	--	--	20
21	RM 15 LTG (E)	20 A	1			0 VA	0 VA			1	20 A	RM 15 COPIER (E)	22
23	PUPIL RM LTG (E)	20 A	1					0 VA	0 VA	1	20 A	RM 15 OUTLETS (E)	24
25	PUPIL RM LTG (E)	20 A	1	0 VA	0 VA					1	20 A	RM 15 OUTLETS (E)	26
27	RM 12 LTG (E)	20 A	1			0 VA	0 VA			2	30 A	A/C (E)	28
29	RM 15 LASER JET (E)	20 A	1					0 VA	0 VA	--	--	--	30
31	AC PPS (E)	20 A	2	0 VA	0 VA					1	20 A	RECEPT (E)	32
33	--	--	--			0 VA	0 VA			1	20 A	Spare	34
35	ROOF TOP CONV RECEPT	20 A	1					720 VA	0 VA	1	20 A	Spare	36
37	ROOF TOP CONV RECEPT	20 A	1	720 VA	0 VA					1	20 A	EMERGENCY LIGHTS HALL (E)	38
39	DUCT SMOKE HEATER	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	RM 13 (E)	42
			Total Load:	720 VA		0 VA		720 VA					
			Total Amps:	7 A		0 A		7 A					

Notes:
EXISTING PANEL

Branch Panel: DPL

Location:
Supply From:
Mounting: SURFACE
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	WATER BOOSTER PUMP (E)	20 A	3	0 VA	0 VA					3	20 A	ELECTRIC HEAT (E)	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	Spare	100 A	3	0 VA	0 VA					3	100 A	PANEL A (E)	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	PANEL B(E)	100 A	3	0 VA	0 VA					3	100 A	PANEL BRP (E)	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	ELEVATOR A	70 A	3	2521.8 VA	1440 VA					1	20 A	ELEVATOR A CART	20
21	--	--	--			2521.8 VA	500 VA			2	15 A	EUH-ELEV-A	22
23	--	--	--					2521.8 VA	500 VA	--	--	--	24
25	PIT CONVINIENCE RECEPT	20 A	1	360 VA	180 VA					1	15 A	GFCI - ELEV A - SUMP PUMP RECEPT	26
27	FIRE/SMOKE DAMPER	20 A	1			600 VA	180 VA			1	20 A	ELEV SUMP PUMP CONTROL PANEL	28
			Total Load:	4502 VA		3802 VA		3022 VA					
			Total Amps:	39 A		33 A		25 A					

Notes:
EXISTING PANEL

Branch Panel: HPH3

Location: LOWER LEVEL AREA A
Supply From: MDPH
Mounting: SURFACE
Volts: 480/277 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 42K
Mains Type: 800A NON-AUTO SW
Mains Rating: 800 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ECH-VEST A1	15 A	3	858.1 VA	1716.1 VA					3	20 A	ECH-JC T6B & ECH-VEST B1	2
3	--	--	--			858.1 VA	1716.1 VA			--	--	--	4
5	--	--	--					858.1 VA	1716.1 VA	--	--	--	6
7	ECH-PASSAGE 40E-1	15 A	3	858.1 VA	1488 VA					2	20 A	ECH-PE OFF STOR 40B, ECH-PE OFF...	8
9	--	--	--			858.1 VA	1488 VA			--	--	--	10
11	--	--	--					858.1 VA	858.1 VA	3	15 A	ECH-PASSAGE 40E-2	12
13	ECH-PE OFF TOILET 37B, PE OFF 37B	20 A	2	1488 VA	858.1 VA					--	--	--	14
15	--	--	--			1488 VA	858.1 VA			--	--	--	16
17	ECH-WOMEN TOILET 95 & 96	20 A	2					1488 VA	1287.1 VA	2	15 A	ECH-ELEC-RM14	18
19	--	--	--	1488 VA	1287.1 VA					--	--	--	20
21	ECH-WOMEN TOILET 56 & 57	20 A	2			2574.2 VA	5535.9 VA			3	35 A	ACCU-53-55-57-59	22
23	--	--	--					2574.2 VA	5535.9 VA	--	--	--	24
25	ACCU-52-54-56-58	35 A	3	5535.9 VA	5535.9 VA					--	--	--	26
27	--	--	--			5535.9 VA	13839.7...			3	60 A	DOAS-GYM WING-CLSSRM A	28
29	--	--	--					5535.9 VA	13839.7...	--	--	--	30
31	DOAS-GYM WING-CLSSRM B	60 A	3	13839.7...	13839.7...					--	--	--	32
33	--	--	--			13839.7...	5535.9 VA			3	35 A	ACCU-47-49-51	34
35	--	--	--					13839.7...	5535.9 VA	--	--	--	36
37	ACCU-46-48-50	35 A	3	5535.9 VA	5535.9 VA					--	--	--	38
39	--	--	--			5535.9 VA	15223.6...			3	80 A	RTU-GYM A	40
41	--	--	--					5535.9 VA	15223.6...	--	--	--	42
43	DOAS-GYM WING-LOCKER SUITE A	50 A	3	9964.6 VA	15223.6...					--	--	--	44
45	--	--	--			9964.6 VA	15223.6...			3	80 A	RTU-GYM B	46
47	--	--	--					9964.6 VA	15223.6...	--	--	--	48
49	DOAS-GYM WING-LOCKER SCIENCE...	50 A	3	8303.8 VA	15223.6...					--	--	--	50
51	--	--	--			8303.8 VA	6366.2 VA			3	45 A	ACCU-38-41-44-45	52
53	--	--	--					8303.8 VA	6366.2 VA	--	--	--	54
55					6366.2 VA					--	--	--	56
57													58
59													60
			Total Load:	114946 VA		114745 VA		114544 VA					
			Total Amps:	415 A		414 A		414 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	29521 VA	100.00%	29521 VA		
Power	314714 VA	100.00%	314714 VA	**Total Conn. Load:**	344235 VA
				Total Est. Demand:	344235 VA
				Total Conn. Current:	414 A
				Total Est. Demand Current:	414 A

Notes:

Branch Panel: LP1-H(R)

Location: GYM STORAGE 40C
Supply From:
Mounting: SURFACE
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type: MLO
Mains Rating: 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GIRLS GYM LTG (E)	20 A	1	0 VA	0 VA					1	20 A	GIRLS SHOWER LIGHTS (E)	2
3	GIRLS GYM LTG (E)	20 A	1			0 VA	0 VA			1	20 A	GIRLS LOCKER LIGHTS (E)	4
5	SCOREBOARD (E)	20 A	1					0 VA	0 VA	1	20 A	STORAGE CLOSET (E)	6
7	EMERGENCY LIGHTS (E)	20 A	1	0 VA	0 VA					1	20 A	GFI NEXT TO PANEL (E)	8
9	Spare	20 A	1			0 VA	0 VA			1	20 A	CH-1 & UH-2 (E)	10
11	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	12
13	GIRLS GYM LTG (E)	20 A	1	0 VA	1200 VA					1	20 A	CH-RM40D, GYM STOR 40C, 40-1, PE 40B	14
15	GIRLS GYM LTG (E)	20 A	1			0 VA	212.2 VA			2	20 A	AC-RM37D-GIRLS, 37C-GIRLS, 37-GIRL...	16
17	GIRLS GYM LTG (E)	20 A	1					0 VA	212.2 VA	--	--	--	18
19	ROOF TOP CONV RECEPT	20 A	1	360 VA	0 VA					1	20 A	DUCT SMOKE HEATER	20
21						0 VA				1	20 A	Spare	22
23								0 VA		1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0

Branch Panel: LP-2

Location: ELEC. RM. 14 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AC-RM29; 27; 25; 23; 21; 19; 19B; 19C;...	20 A	2	477.4 VA	720 VA					1	20 A	CH-RM18; T4; T3	2
3	--	--	--			477.4 VA	0 VA			1	20 A	CH-1 HALLS (E)	4
5	AC-RM30; 28; 26; 24; 22; 20	20 A	2					371.3 VA	240 VA	1	15 A	CH-RM19	6
7	--	--	--	371.3 VA	720 VA					1	20 A	CH-C-1C; 2C; 3C	8
9	BCC-E1; F1; H1; G1	20 A	2			158.1 VA	72 VA			1	20 A	FSD	10
11	--	--	--					158.1 VA	427 VA	1	20 A	LTG CORRIDOR (PHASE 1A)	12
13	ROOF TOP CONV RECEPT	20 A	1	720 VA	0 VA					1	20 A	SCHOOL STORE RECEPT (E)	14
15	EM LTG HALL (E)	20 A	1			0 VA	1140 VA			1	20 A	LTG RM 27 & 29	16
17	RM 22 AC (E)	20 A	1					0 VA	1140 VA	1	20 A	LTG RM 23, 25	18
19	CKT 38 FROM PANEL LP1C (E)	20 A	1	0 VA	0 VA					1	20 A	POWER POLE SERVER CLOSET (E)	20
21	CLOCK SYSTEM (E)	20 A	1			0 VA	0 VA			1	20 A	POWER POLE SERVER CLOSET (E)	22
23	Lighting	20 A	1					138 VA	0 VA	1	20 A	POWER POLE SERVER CLOSET (E)	24
25	CKT FROM SERVER CLOSET (E)	20 A	1	0 VA	0 VA					1	20 A	CKT FROM SERVER CLOSET (E)	26
27	CKT FROM SERVER CLOSET (E)	20 A	1			0 VA	0 VA			1	20 A	CKT FROM SERVER CLOSET (E)	28
29	POWER POLE SERVER CLOSET (E)	20 A	1					0 VA	0 VA	1	20 A	CKT FROM SERVER CLOSET (E)	30
31	COPIER MACHINE (E)	20 A	2	0 VA	0 VA					2	20 A	Spare	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	FSD	20 A	1					96 VA	0 VA	2	20 A	Spare	36
37	ROOF TOP CONV RECEPT	20 A	1	540 VA	0 VA					--	--	--	38
39	LTG RM 21	20 A	1			570 VA	0 VA			1	20 A	DUCT SMOKE HEATER	40
41	LTG RM 20 & 22	20 A	1					1140 VA					42
		Total Load:		3549 VA		1851 VA		2795 VA					
		Total Amps:		31 A		15 A		24 A					

Notes:
EXISTING PANEL

Branch Panel: LPA2

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 22000
Supply From: MS-MDP | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	FSD	20 A	1	72 VA	540 VA					1	20 A	ROOF TOP CONV RECEPT	2
3	CH-RM45-1; 45-2; 45B; 44	20 A	1			960 VA	4160 VA			2	80 A	ACCU-BOYS-LOCKERS	4
5	CH-RM58, 59	20 A	1					480 VA	4160 VA	--	--	--	6
7	BCC-A1, B1, C1, D1	20 A	2	158.1 VA	371.3 VA					2	20 A	AC-RM45, 45B, 44, 44B, 41B, 38, 41	8
9	--	--	--			158.1 VA	371.3 VA			--	--	--	10
11	FSD	20 A	1					36 VA	720 VA	1	20 A	ROOF TOP CONV RECEPT	12
13	AC-RM59, 57, 55, 53, 51, 49, 47	20 A	2	371.3 VA	424.3 VA					2	20 A	AC-RM58, 56, 54, 52, 50, 48, 46, 42	14
15	--	--	--			371.3 VA	424.3 VA			--	--	--	16
17	DUCT SMOKE HEATER	20 A	1					0 VA	4160 VA	2	80 A	ACCU-GIRLS-LOCKERS	18
19	ACCU-RM42	40 A	2	2392 VA	4160 VA					--	--	--	20
21	--	--	--			2392 VA	36 VA			1	20 A	FSD	22
23													24
25	FSD	20 A	1	36 VA	720 VA					1	20 A	CH-C-1A, 2A, 3A	26
27	CH-RM42, T5, T6	20 A	1			720 VA							28
		Total Load:		9245 VA		9593 VA		9556 VA					
		Total Amps:		77 A		80 A		80 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Heat	0 VA	0.00%	0 VA		
Motor	5530 VA	100.00%	5530 VA	**Total Conn. Load:**	28394 VA
Receptacle	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	28394 VA
Power	21604 VA	100.00%	21604 VA	**Total Conn. Current:**	79 A
				Total Est. Demand Current:	79 A

Notes:

Branch Panel: PPK(L)

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 125 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT	15 A	3	0 VA	371.3 VA					2	20 A	AC-RM2-1; 3; 5; 2; 4; 6	2
3	--	--	--			0 VA	371.3 VA			--	--	--	4
5	--	--	--					0 VA	600 VA	1	15 A	CH-RM2-4	6
7	HOOD FAN (E)	15 A	3	0 VA	0 VA					3	15 A	EXISTING CKT	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	EXISTING CKT	15 A	3	0 VA	0 VA					3	15 A	DISH WASHER (E)	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	3	40 A	IMMERSION DISHWASHER (E)	18
19	EXISTING CKT	30 A	3	0 VA	0 VA					--	--	--	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	26
27	EXISTING CKT	20 A	1			0 VA	600 VA			1	15 A	CH-RM2-3	28
29	EXISTING CKT	20 A	1					0 VA	1200 VA	1	15 A	CH-RM2-2; CH-RM39	30
31	EXISTING CKT	20 A	1	0 VA	600 VA					1	20 A	CH-RM2-1	32
33	EXISTING CKT	20 A	1			0 VA	2080 VA			2	40 A	ACCU-TRANSFORMER	34
35	EXISTING CKT	20 A	1					0 VA	2080 VA	--	--	--	36
37	EXISTING CKT	15 A	3	0 VA	0 VA					3	100 A	PPK-R PANEL	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	--	--	--	42
		Total Load:		971 VA		3051 VA		3880 VA					
		Total Amps:		8 A		28 A		35 A					

Notes:
EXISTING PANEL

Branch Panel: SPD-1(L)

Location: ELEC. RM. 14 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LP-1 HLR (E)	200 A	3	0 VA	0 VA					3	150 A	LP-1J (E)	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	LP-1E (E)	90 A	3	0 VA	0 VA					3	70 A	LP-1F(R)(L)	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	Spare	40 A	3	0 VA	0 VA					3	40 A	Spare	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	Spare	15 A	3	0 VA	0 VA					2	30 A	Spare	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	1	20 A	Spare	24
25	Spare	100 A	3	0 VA	0 VA					3	100 A	Spare	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31					0 VA					3	20 A	Spare	32
33							0 VA			--	--	--	34
35									0 VA	--	--	--	36
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Notes:
EXISTING PANEL

Branch Panel: LP-3

Location: OFFICE 10 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 250 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	AC-RM16-1-1; 16E; 16A; 16B; 16C; 16-1-...	20 A	2	477.4 VA	424.3 VA					2	20 A	AC-RM12, 12D, 12B, 12C, 12A, 10, 10A,...	2
3	--	--	--			477.4 VA	424.3 VA			--	--	--	4
5	CH-RM16E; 16-1; 16-2	20 A	1					720 VA	0 VA	1	20 A	RECEPT LIBRARY (E)	6
7	CH-RM12; 12A; 12F	20 A	1	720 VA	0 VA					1	20 A	AIR EXHANGES (E)	8
9	CH-C-1D; 2D	20 A	1			480 VA	0 VA			1	20 A	Spare	10
11								158.1 VA	2	20 A	BCC-I1; K1; J1; M1	12	
13	CH HALLWAYS (E)	20 A	1	0 VA	158.1 VA					--	--	--	14
15	EF-1 (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	18
19	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	COPY/PRINTER (E)	20 A	1					0 VA	0 VA	2	40 A	AC MINI SPLIT (E)	24
25	AC MINI (E)	50 A	2	0 VA	0 VA					--	--	--	26
27	--	--	--			0 VA	0 VA			2	30 A	AC BOTTOM (E)	28
29	AC MINI (E)	50 A	2					0 VA	0 VA	--	--	--	30
31	--	--	--	0 VA	0 VA					2	30 A	AC TOP (E)	32
33	Spare	20 A	1			0 VA	0 VA			--	--	--	34
35								0 VA	1	20 A	Spare	36	
37	FSD	20 A	1	108 VA	0 VA					1	20 A	Spare	38
39	RADIATOR (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	RADIATOR (E)	20 A	1					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		1888 VA		1382 VA		878 VA					
		Total Amps:		16 A		12 A		7 A					

Notes:
EXISTING PANEL

Branch Panel: LP1-J(L)

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 150 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SCOREBOARD (E)	60 A	2	0 VA	212.2 VA					2	20 A	AC-RM37D-BOYS, RM37C, 37-BOYS,...	2
3	--	--	--			0 VA	212.2 VA			--	--	--	4
5	Spare	20 A	1					0 VA	1200 VA	1	20 A	CH-RM37D, 37C, 37-2, 37-1, 37B	6
7	ROOF TOP CONV RECEPT	20 A	1	540 VA	1200 VA					1	20 A	WINDOW OPERATOR	8
9	WINDOW OPERATOR	20 A	1			1200 VA	0 VA			1	20 A	BOYS GYM (E)	10
11								0 VA	1	20 A	BOYS GYM (E)	12	
13	EMERGENCY LIGHTS (E)	20 A	1	0 VA	0 VA					1	20 A	STORE ROOM CORRIDOR (E)	14
15	BOYS LOCKER ROOM (E)	20 A	1			0 VA	0 VA			1	20 A	BOYS LOCKER ROOM (E)	16
17	PH DIRECTIONS ROOM (E)	20 A	1					0 VA	0 VA	1	20 A	GYM RECEPTACLES (E)	18
19	BOYS SHOWER (E)	20 A	1	0 VA	0 VA					1	20 A	GYM RECEPTACLES (E)	20
21	CH-I & UH-2 (E)	20 A	1			0 VA	0 VA			1	20 A	TBS (E)	22
23	BOYS AMP FEED (E)	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	LIGHTS (E)	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	LIGHTS (E)	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	15 A	3	0 VA	0 VA					3	15 A	Spare	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	Spare	15 A	3	0 VA	0 VA					3	15 A	Spare	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	--	--	--	42
		Total Load:		1952 VA		1412 VA		1200 VA					
		Total Amps:		17 A		12 A		10 A					

Notes:
EXISTING PANEL

Switchboard: MS-MDP

Location: ELECTRICAL ROOM 3B | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MCB
Mounting: | **Wires:** 4 | **Mains Rating:** 600 A

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	A	B	C	TOTAL	Remarks
1	COOLER TRAILER (E)	1	225 A	50 A	0 VA			--	
2	P2A & P2B	1	225 A	50 A	0 VA			--	
3	Spare	1	225 A	100 A	0 VA			--	
4	AHU-3 (EXISTING)	1	225 A	150 A	0 VA			--	
5	P3A & P3B	1	225 A	100 A	0 VA			--	
6	P1A & P1B	1	225 A	100 A	0 VA			--	
7	ACCU-MUSIC SUITE	2	400 A	80 A	16608 VA	16608 VA		33215 VA	
8	Spare	1	225 A	175 A	0 VA			--	
9	GHWP-2	3	400 A	60 A	3867 VA	3867 VA	3867 VA	11600 VA	
10	GHWP-2A	3	400 A	60 A	3867 VA	3867 VA	3867 VA	11600 VA	
11	LPA2	3	400 A	100 A	9245 VA	9593 VA	9556 VA	28394 VA	
12									
13									
14									
15									
16									
17									
18									
19									
20									
				Total Conn. Load:	84810 VA				
				Total Amps:	235 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Electric Heat	0 VA	0.00%	0 VA		
Motor	5530 VA	100.00%	5530 VA	**Total Conn. Load:**	84810 VA
Receptacle	1260 VA	100.00%	1260 VA	**Total Est. Demand:**	84810 VA
Power	78020 VA	100.00%	78020 VA	**Total Conn. Current:**	235 A
				Total Est. Demand Current:	235 A

Notes:

Branch Panel: LP-1A(L)

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	HALL LTG (E)	20 A	1	0 VA	0 VA					1	20 A	LOBBY LTG (E)	2
3	HALL LTG (E)	20 A	1			0 VA	0 VA			1	20 A	LOBBY LTG (E)	4
5	CAFE LTG (E)	20 A	1					0 VA	0 VA	1	20 A	STUDENT RM LTG (E)	6
7	CAFE LTG (E)	20 A	1	0 VA	0 VA					1	20 A	KITCHEN LTG (E)	8
9	CAFE LTG (E)	20 A	1			0 VA	0 VA			1	20 A	KITCHEN LTG (E)	10
11	220 OUTLET (E)	20 A	1					0 VA	0 VA	1	20 A	INTERNATE SWITCH (E)	12
13	CAFE (E)	20 A	1	0 VA	0 VA					1	20 A	VAC/COND UV HALLWAY (E)	14
15	CAFE AMP (E)	20 A	1			0 VA	0 VA			2	70 A	COMP PANEL (E)	16
17	CAFE STAGE (E)	20 A	1					0 VA	0 VA	--	--	--	18
19	FUTURE USE BLUE (E)	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	20
21	CAFE OUTLET END WALL (E)	20 A	1			0 VA	0 VA			2	50 A	EXISTING CKT	22
23	FANS (E)	20 A	1					0 VA	0 VA	--	--	--	24
25	OUTSIDE LTG (E)	20 A	1	0 VA	582.4 VA					2	15 A	REF-ELEV-A	26
27	TUNNEL LTG (E)	20 A	1			0 VA	582.4 VA			--	--	--	28
29	REF-ELEV-A	20 A	1					0 VA	60 VA	1	20 A	FIRE/SMOKE DAMPER	30
		Total Load:		582 VA		582 VA		60 VA					
		Total Amps:		6 A		6 A		1 A					

Notes:
EXISTING PANEL

Branch Panel: LP-4

Location: ELEC. RM. 14 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CH-C-1A	20 A	1	660 VA	1140 VA					1	20 A	LTG RM 26 & 24	2
3	ELEVATOR B (E)	70 A	3			2521.8 VA	1440 VA			1	20 A	ELEVATOR B CART (E)	4
5	--	--	--					2521.8 VA	1140 VA	1	20 A	LTG RM 30 & 28	6
7	--	--	--	2521.8 VA	4680 VA					2	50 A	ECH-C-1	8
9	Electric Heat	20 A	1			600 VA	4680 VA			--	--	--	10
11	Receptacle	20 A	1					180 VA					12
13	EUH-ELEV-B (E)	15 A	2	500 VA									14
15	--	--	--			500 VA							16
17													18
19													20
21	PIT CONVINIENCE RECEPT (E)	20 A	1			360 VA	180 VA			1	20 A	GFCI - ELEV B - SUMP PUMP RECEPT (E)	22
23													24
25				600 VA						1	20 A	ECH-C-1 MOTORIZED DAMPER	26
27							540 VA			1	20 A	CONVINIENCE RECEPT (E)	28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		9034 VA		10822 VA		2932 VA					
		Total Amps:		83 A		98 A		24 A					

Notes:
EXISTING PANEL - PHASE 4

Branch Panel: SPD-1(R)

Location: ELEC. RM. 14 | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 400 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	LP1-H (E)	125 A	3	0 VA	0 VA					3	125 A	LP1-G (E)	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	LP1-J (E)	125 A	3	0 VA									8
9	--	--	--			0 VA							10
11	--	--	--					0 VA					12
13	Spare	30 A	2	0 VA	0 VA					3	60 A	Spare	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17								0 VA			--	--	18
19					0 VA					3	30 A	Spare	20
21							0 VA			--	--	--	22
23								0 VA		--	--	--	24
25	Spare	100 A	3	0 VA	0 VA					3	100 A	EXISTING CKT	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	Spare	90 A	3	0 VA	0 VA					3	70 A	EXISTING CKT	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	Spare	70 A	3	0 VA	0 VA					3	90 A	Spare	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	--	--	--	42
		Total Load:		0 VA		0 VA		0 VA					
		Total Amps:		0 A		0 A		0 A					

Notes:
EXISTING PANEL

Branch Panel: LP5(R)

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:**
Supply From: | **Phases:** 3 | **Mains Type:** MLO
Mounting: SURFACE | **Wires:** 4 | **Mains Rating:** 225 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	2
3	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	4
5	EXISTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	6
7	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	8
9	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	10
11	EXISTING CKT	20 A	1					0 VA	1894 VA	1	20 A	LTG AUD	12
13	EXISTING CKT	20 A	1	0 VA	296 VA					1	20 A	LTG AUD	14
15	EXISTING CKT	20 A	1			0 VA	1200 VA			1	20 A	LIFT	16
17	EXISTING CKT	20 A	1					0 VA	310.6 VA	1	20 A	AUDITORIUM LTG	18
19	Spare	20 A	1	0 VA	180 VA					1	20 A	Receptacle	20
21	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	50 A	2			0 VA	0 VA			1	20 A	Spare	40
41	--	--	--					0 VA	0 VA	1	20 A	Spare	42
		Total Load:		465 VA		1200 VA		2202 VA					
		Total Amps:		4 A		11 A		19 A					

Notes:
EXISTING PANEL

REV.	DATE	ITEM

NOTICE

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MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILBROOK MIDDLE SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

PANELBOARD DIRECTORIES

DWG TITLE

DRAWING BY: EEA
CHECKED BY: EEA

NOTICE

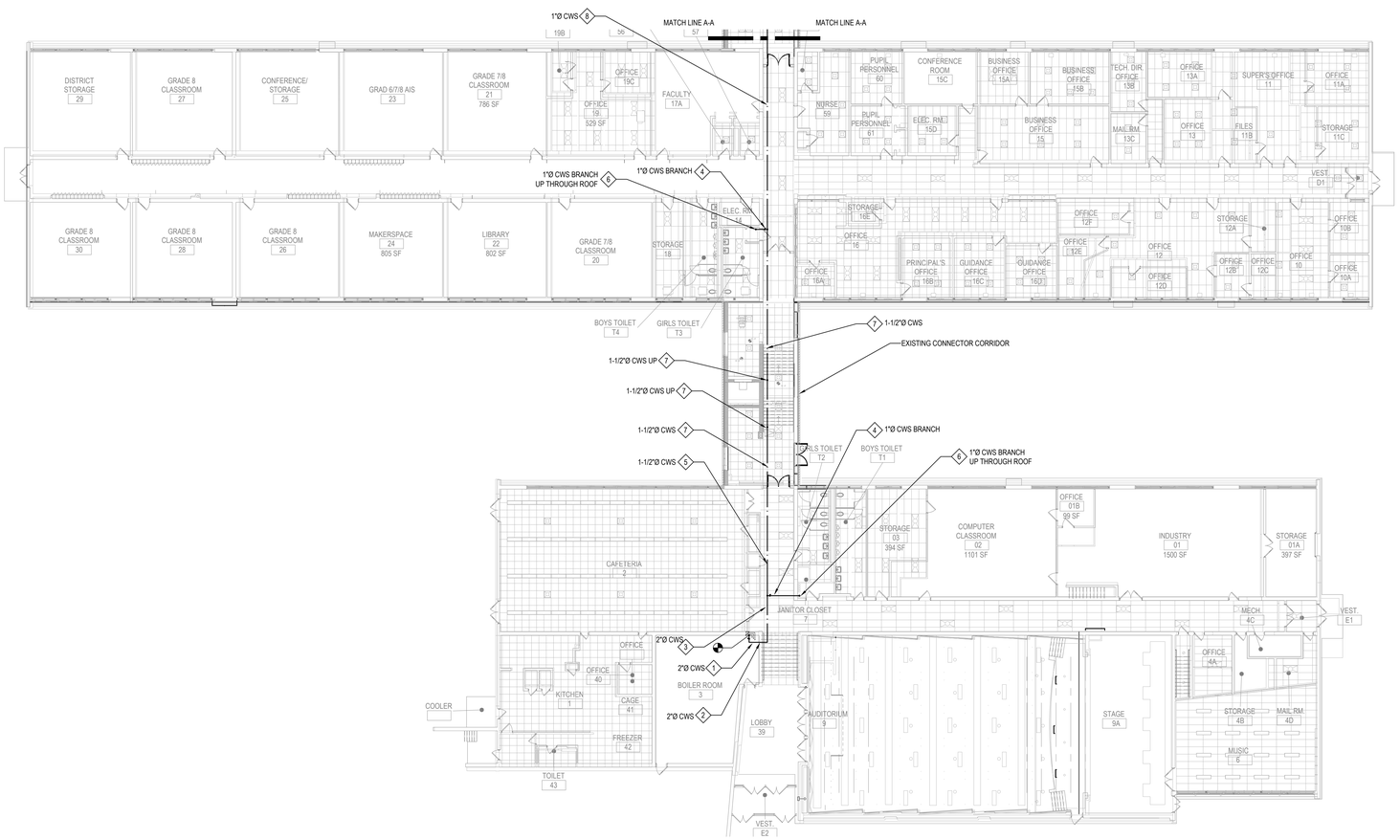
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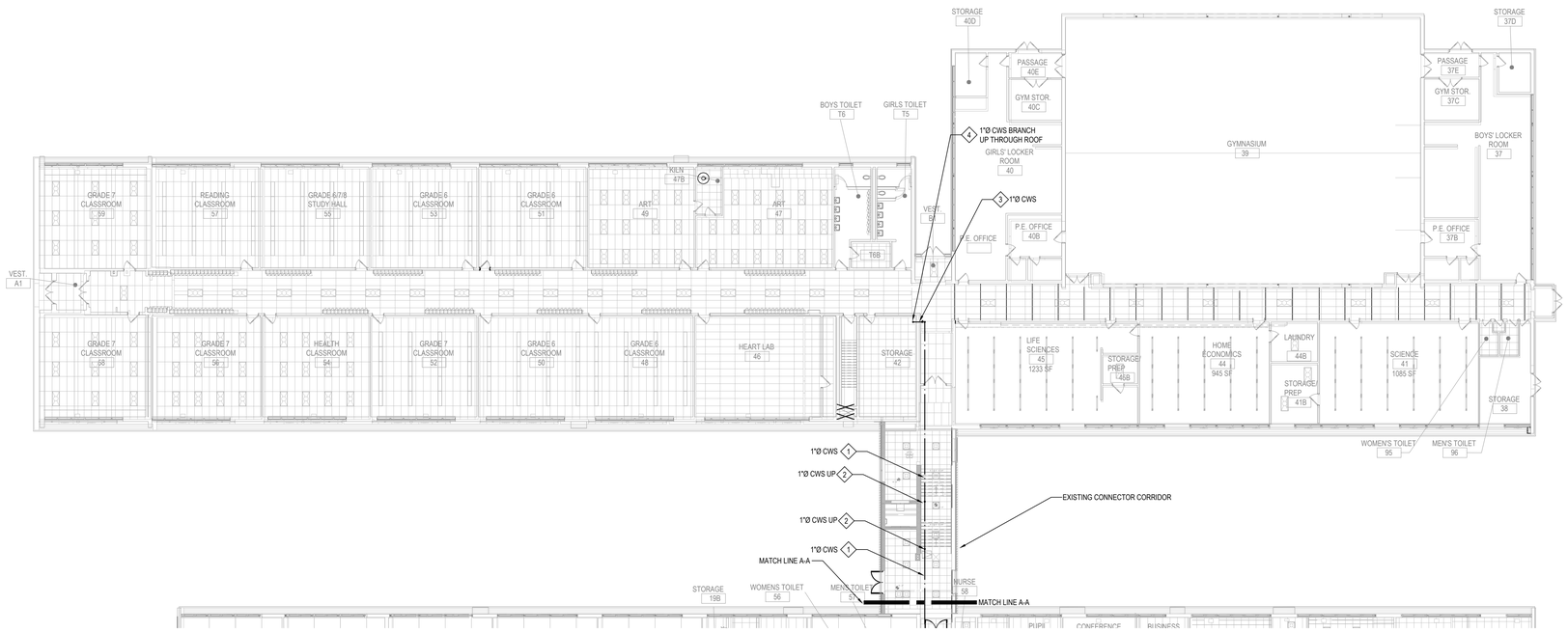
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FIRST FLOOR -MIDDLE SCHOOL- AREA "A1" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/16" = 1'-0"



FIRST FLOOR -MIDDLE SCHOOL- AREA "A2" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL — SCALE: 1/16" = 1'-0"

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A1" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

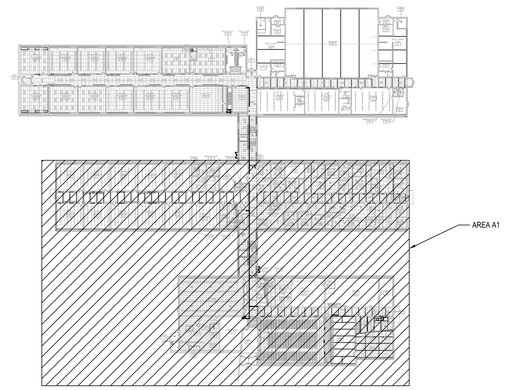
1. PC SHALL RUN TAP OFF EXISTING 2"Ø DOMESTIC CWS PIPING LINE IN BOILER ROOM AS SHOWN & PROVIDE A SHUT OFF BALL VALVE AS SHOWN & RUN PIPING UP & OUT OF BOILER ROOM INTO CEILING SPACE OF LOBBY SHOWN. REFER "NEW PLUMBING WORK GENERAL NOTES" ON THIS PLAN FOR FURTHER INFORMATION. THERE IS AN EXISTING 2"Ø DOMESTIC CWS LINE PRESENT IN BOILER ROOM.
2. PC SHALL HAVE GC CORE DRILL NEW 2"Ø OPENING IN WALL AS SHOWN & PC TO THEN RUN NEW 2"Ø CWS LINE THROUGH & PROVIDE FIRE STOPPING.
3. PC SHALL RUN NEW 2"Ø CWS MAIN LINE IN CEILING AS SHOWN
4. PC SHALL TAP OFF A NEW 1"Ø CWS BRANCH AS SHOWN & INSTALL A 1"Ø SHUT OFF BALL VALVE AS SHOWN & RUN BRANCH TO LOCATION SHOWN.
5. PC SHALL CONTINUE TO RUN NEW 1-1/2"Ø CWS MAIN LINE IN CEILING AS SHOWN.
6. PC SHALL HAVE GC CORE DRILL NEW 1"Ø OPENING ROOF WITH PC PRESENT. PC TO THEN RUN PIPING THROUGH OPENING. REFER TO DRAWING MP2.45 FOR CONTINUATION ON ROOF LEVEL.
7. PC SHALL CONTINUE TO RUN NEW 1-1/2"Ø CWS MAIN LINE IN CEILING OF CONNECTOR CORRIDOR & GO UP TWO (2) TIMES TO ACCOUNT FOR ELEVATION CHANGE AS SHOWN.
8. PC SHALL CONTINUE TO RUN NEW 1"Ø CWS MAIN LINE IN CEILING AS SHOWN.

FIRST FLOOR - MILLBROOK MIDDLE SCHOOL - AREA "A2" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. PC SHALL CONTINUE TO RUN NEW 1"Ø CWS MAIN LINE IN CEILING AS SHOWN.
2. PC SHALL CONTINUE TO RUN NEW 1"Ø CWS MAIN LINE IN CEILING OF CONNECTOR CORRIDOR & GO UP TWO (2) TIMES TO ACCOUNT FOR ELEVATION CHANGE AS SHOWN.
3. PC SHALL INSTALL A 1"Ø SHUT OFF BALL VALVE & HAVE GC CORE DRILL NEW 1"Ø OPENING IN WALL AS SHOWN & PC TO THEN RUN NEW 1"Ø CWS LINE THROUGH & PROVIDE FIRE STOPPING.
4. PC SHALL HAVE GC CORE DRILL NEW 1"Ø OPENING ROOF WITH PC PRESENT. PC TO THEN RUN PIPING THROUGH OPENING. REFER TO DRAWING MP2.45 FOR CONTINUATION ON ROOF LEVEL.

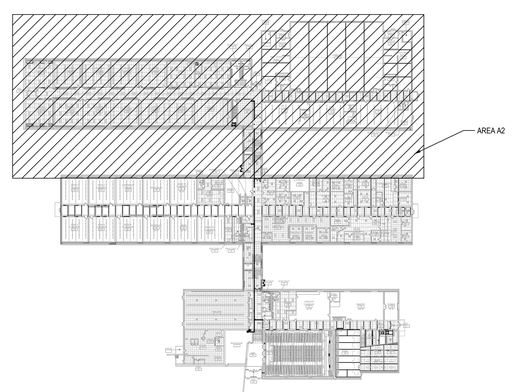
NEW PLUMBING WORK GENERAL NOTES:

1. MC SHALL HIRE A LICENSED PLUMBING CONTRACTOR (PC) AS A SUB-CONTRACTOR TO PERFORM ALL WORK STATED ON THIS DRAWING.
2. THE PC SHALL BE RESPONSIBLE TO REMOVE ANY ASSOCIATED DROP CEILING GRID/CEILING TILES , AS REQUIRED, TO INSTALL NEW PIPING & ASSOCIATED INSULATION, FITTINGS, TEES, VALVES, ETC REQUIRED FOR SCOPE OF WORK SHOWN. ONCE PC IS FINISHED WITH PIPING INSTALLATION WORK, THE PC SHALL THEN BE ENTIRELY RESPONSIBLE TO RE-INSTALL EXISTING CEILING GRID/CEILING TILES BACK IN PLACE. ANY CEILING GRID/CEILING TILES DAMAGED DURING INSTALLATION WORK SHALL BE THE RESPONSIBILITY OF THE PC TO REPLACE WITH AN EQUIVALENT AT PC'S OWN EXPENSE.
3. PC SHALL COORDINATE WORK WITH MC AND PROJECT GC. PROJECT GC SHALL BE RESPONSIBLE FOR ALL WALL & ROOF PENETRATION WORK WHICH PC SHALL BE RESPONSIBLE TO COORDINATE WITH GC.



MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN #1

SCALE: 1/64" = 1'-0"



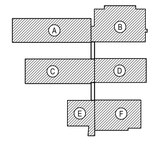
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN #2

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

DWG TITLE: MECHANICAL
PLUMBING PIPING FIRST FLOOR NEW WORK

DRAWING BY: U.F.
CHECK BY: U.F.

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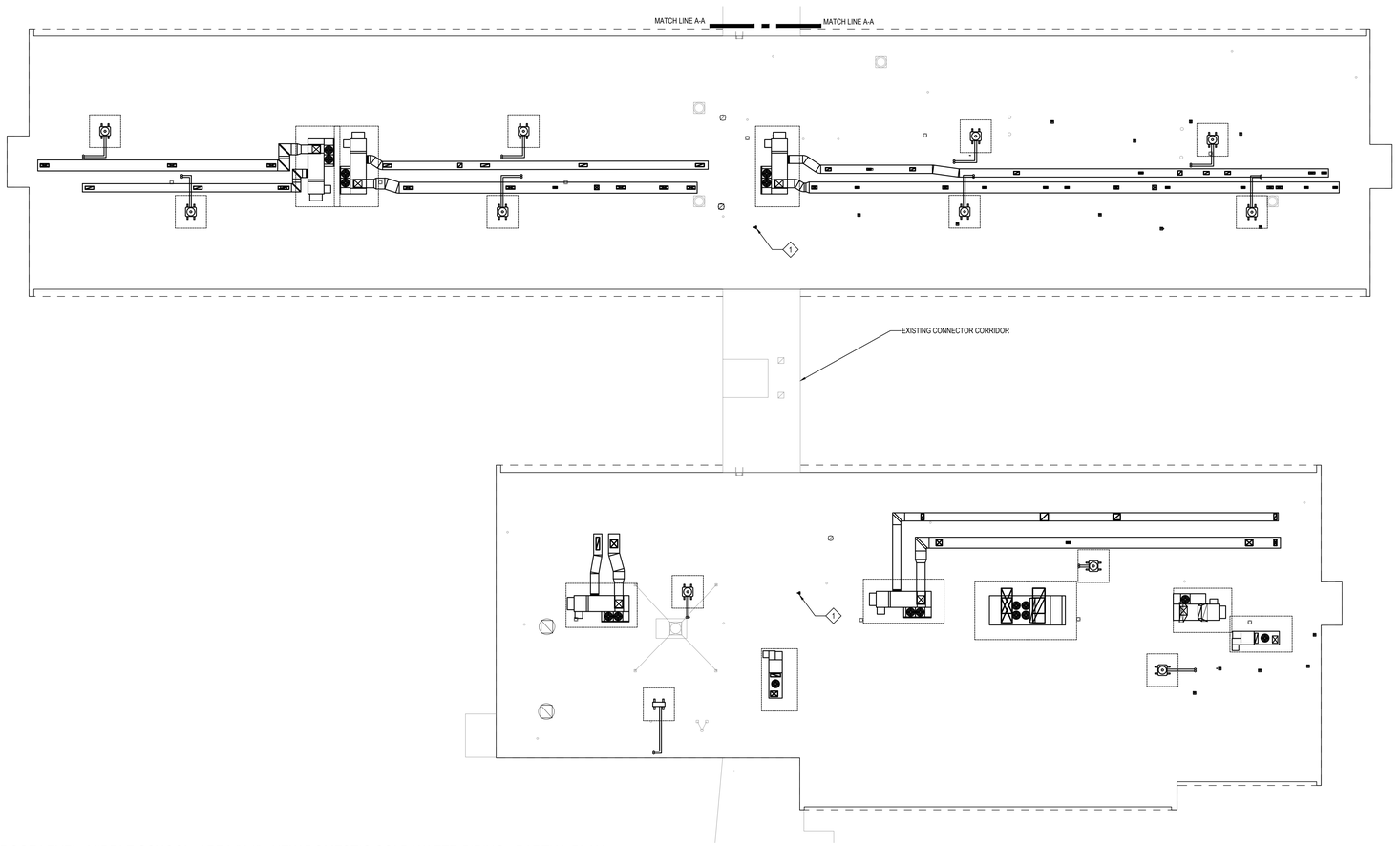
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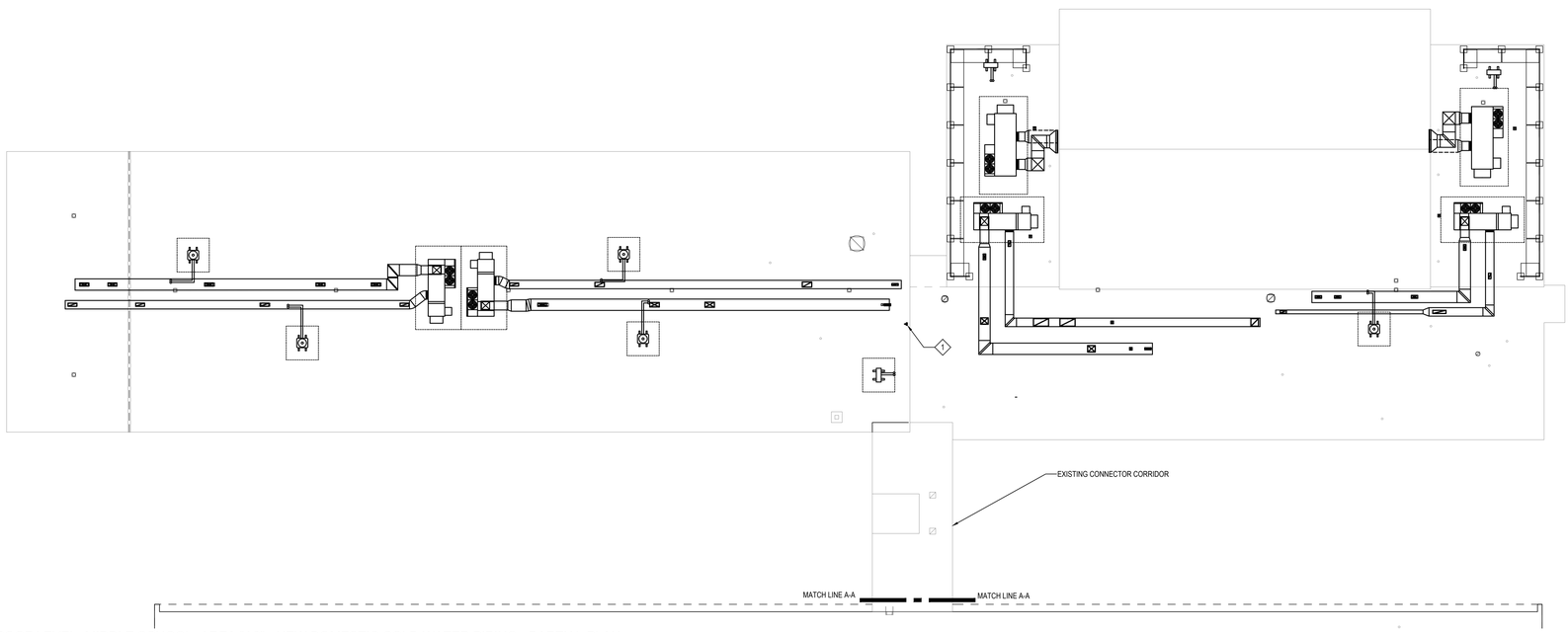
SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	PLUMBING PIPING-1ST FLOOR NEW WORK
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

MP2.44



ROOF LEVEL -MIDDLE SCHOOL- AREA "A1" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/16" = 1'-0"



ROOF LEVEL -MIDDLE SCHOOL- AREA "A2" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL SCALE: 1/16" = 1'-0"

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A1" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. PC SHALL HAVE GC CORE DRILL NEW 1"Ø OPENING ROOF WITH PC PRESENT. PC TO THEN RUN PIPING THROUGH OPENING. PC TO THEN FURNISH & INSTALL NEW ANTI-FREEZE, LEAD-FREE ROOF HYDRANT (P-1). REFER ALSO TO DRAWING MP2.44 FOR CONTINUATION ON FIRST FLOOR LEVEL.

   AT BOTTOM OF 1"Ø CWS LINE IN FIRST FLOOR SPACE, PROVIDE A HOSE BID FOR END USER TO HAVE ABILITY TO DRAIN OUT WATER IN ROOF HYDRANT IN WINTER TIME.

ROOF LEVEL - MILLBROOK MIDDLE SCHOOL - AREA "A2" - NEW DOMESTIC COLD WATER PIPING - PARTIAL PLAN - KEY PLAN NOTES:

1. PC SHALL HAVE GC CORE DRILL NEW 1"Ø OPENING ROOF WITH PC PRESENT. PC TO THEN RUN PIPING THROUGH OPENING. PC TO THEN FURNISH & INSTALL NEW ANTI-FREEZE, LEAD-FREE ROOF HYDRANT (P-1). REFER ALSO TO DRAWING MP2.44 FOR CONTINUATION ON FIRST FLOOR LEVEL.

   AT BOTTOM OF 1"Ø CWS LINE IN FIRST FLOOR SPACE, PROVIDE A HOSE BID FOR END USER TO HAVE ABILITY TO DRAIN OUT WATER IN ROOF HYDRANT IN WINTER TIME.

NEW PLUMBING WORK GENERAL NOTES:

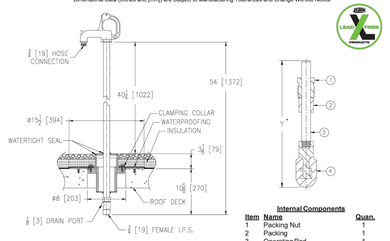
1. MC SHALL HIRE A LICENSED PLUMBING CONTRACTOR (PC) AS A SUB-CONTRACTOR TO PERFORM ALL WORK STATED ON THIS DRAWING.
2. PC SHALL COORDINATE WORK WITH MC AND PROJECT GC. PROJECT GC SHALL BE RESPONSIBLE FOR ALL WALL & ROOF PENETRATION WORK WHICH PC SHALL BE RESPONSIBLE TO COORDINATE WITH GC.
3. PC SHALL PROVIDE GC APPROVED SUBMITTAL & INSTALLATION MANUAL FOR NEW ANTI-FREE, LEAD-FREE ROOF HYDRANT (P-1) PRIOR TO START OF WORK FOR COORDINATION PURPOSES REQUIRED FOR FLASHING METHODS/DETAILS.
4. PC SHALL BE RESPONSIBLE TO FURNISH & INSTALL NEW ROOF HYDRANT (P-1) AS SHOWN.

LEAD-FREE, NON-FREEZE ROOF HYDRANT (P-1) (BASIS: ZURN):

ZURN **Z1388XL**
ROOF HYDRANT
Exposed Head, Non-Freeze

SPECIFICATION SHEET
TAG _____

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice



Internal Components

Item	Name	Quan.
1	Packing Nut	1
2	Packing	1
3	Operating Rod	1
4	Plunger	1

Approx. Wt. Lbs. [kg]
27 [12]

ENGINEERING SPECIFICATION: ZURN Z1388XL
Exposed, lead-free, non-freeze roof hydrant. Hydrant features a Dura-Coated cast iron head and lift handle with lock option, galvanized steel casing, bronze and stainless steel interior components, 3/4" [19] inlet connection with 1/8" [3] tapped drain port on housing, and 3/4" [19] male hose connection. Complete with Dura-Coated cast iron roof support sleeve with wide anchoring flange and clamp collar.

Zurn "XL" Lead-Free compliant products are a line of durable plumbing products designed and manufactured to comply with state laws and local codes that mandate maximum allowable lead content levels. Zurn "XL" products are manufactured in accordance to the Federal SWDA section 1417.

OPTIONS (Check/specify appropriate options)

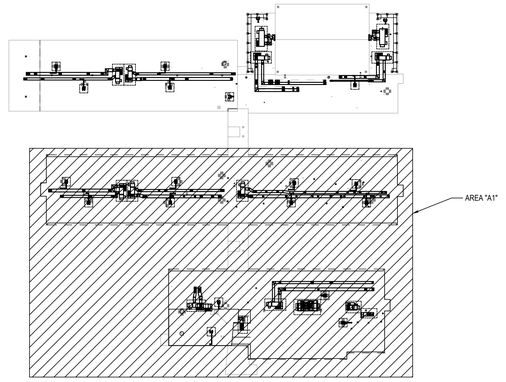
SUFFIXES
____ -AC Aluminum Casing Guard
____ -RK Hydrant Parts Repair Kit (HYD-RK-Z1395XL)
____ -VB 3/4 [19] Adapter Vacuum Breaker

* Regularly furnished unless otherwise specified. ** When ordering replacement cartridge assembly Specify 'Y' dim.

Zurn Industries, LLC | Specification Drainage Operation
1801 Pittsburgh Avenue, Erie, PA, U.S.A. 16502 Ph. 855-663-9876, Fax 814-464-7929
In Canada | Zurn Industries Limited
3244 Nashua Drive, Mississauga, Ontario L4V 1L2 Ph. 905-405-8272, Fax 905-405-1292
www.zurn.com

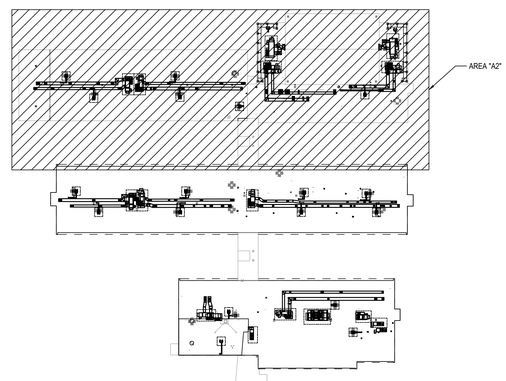
Rev. A
Date: 6/28/15
C.N. No. 133102
Prod. | Dwg. No. Z1388XL

ADDITIONAL SCHEDULE NOTES:
1. APPROVED MANUFACTURER TO PROVIDE ALUMINUM CASING GUARD "-AC".
2. APPROVED MANUFACTURER TO PROVIDE HYDRANT PARTS REPAIR KIT (HYD-RK-Z1395XL) "-RK".



MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN #1

SCALE: 1/64" = 1'-0"



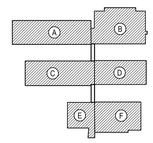
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN #2

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK MIDDLE SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

MECHANICAL
PLUMBING PIPING ROOF LEVEL NEW WORK

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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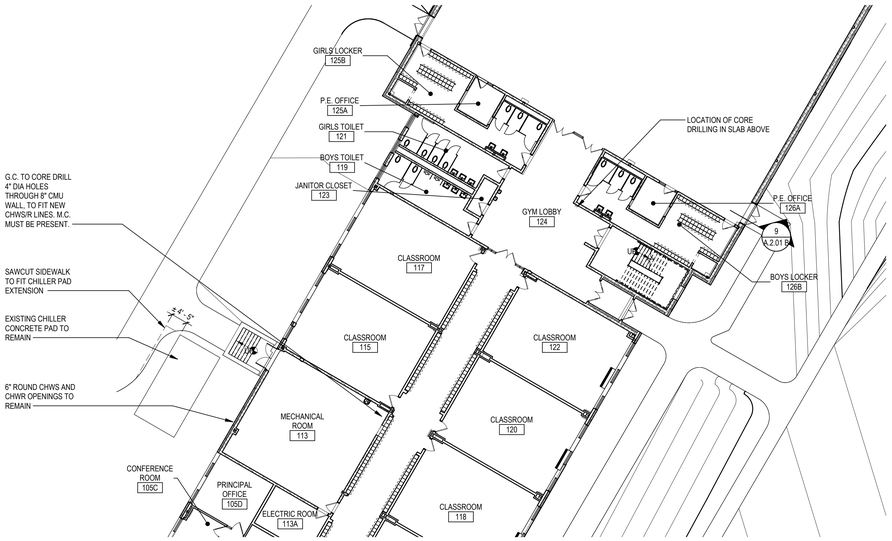
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NEW YORK 11772
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F. 631.475.0361

100 GREAT OAKS BLVD.
SUITE 115, ALBANY
NEW YORK 12203
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F. 518.621.7655

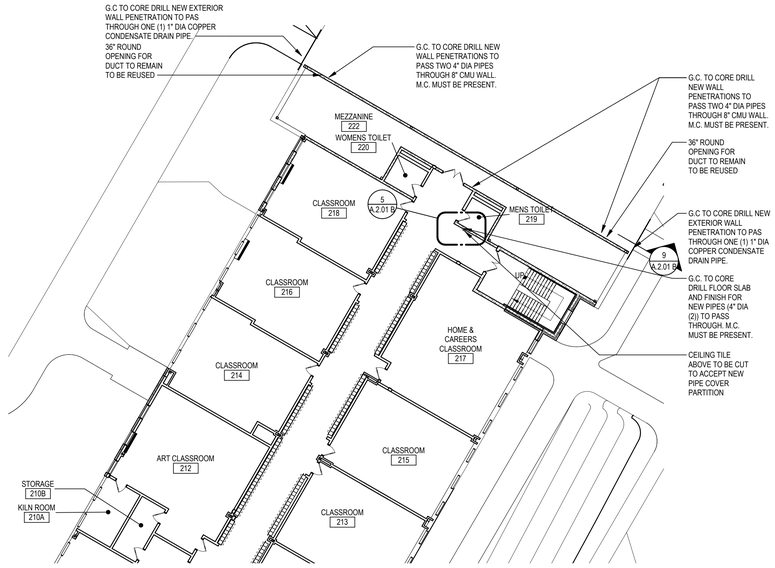
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SED No.	13-22-01-04-0-008-017
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	PLUMBING PIPING ROOF LEVEL NEW WORK
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273A

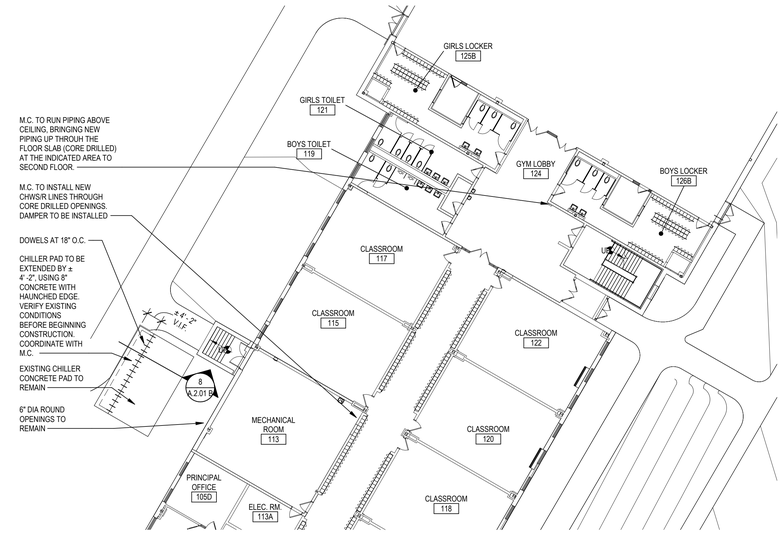
MP2.45



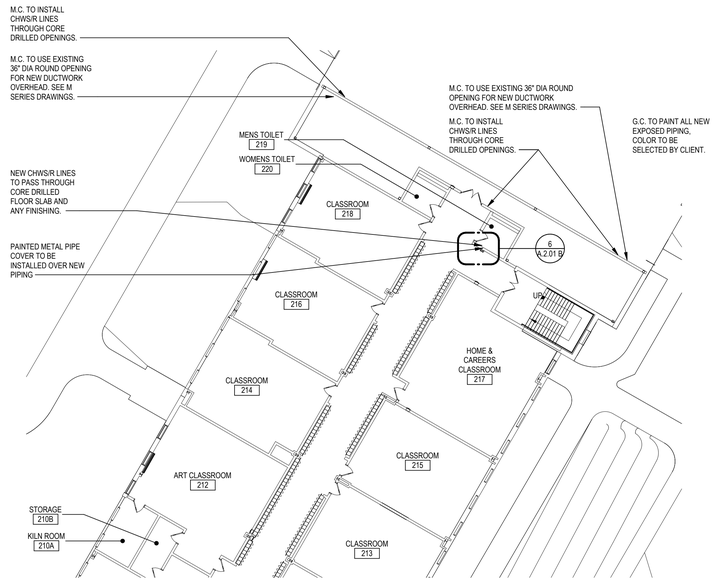
1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



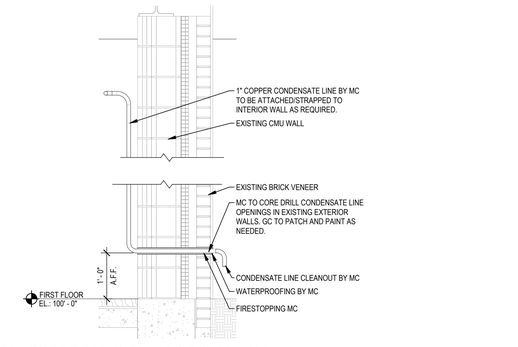
2 SECOND FLOOR DEMOLITION PLAN
SCALE: 1/16" = 1'-0"



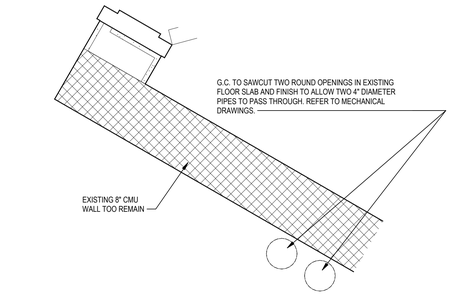
3 FIRST FLOOR PROPOSED PLAN
SCALE: 1/16" = 1'-0"



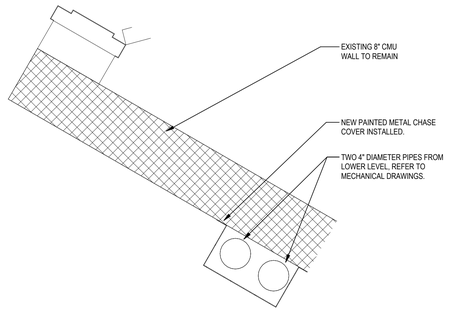
4 SECOND FLOOR PROPOSED PLAN
SCALE: 1/16" = 1'-0"



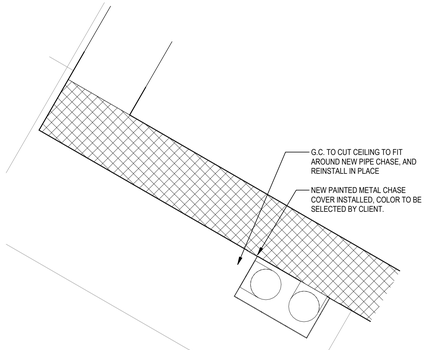
9 CORE DRILL @ EXTERIOR GYM WALL
SCALE: 3/4" = 1'-0"



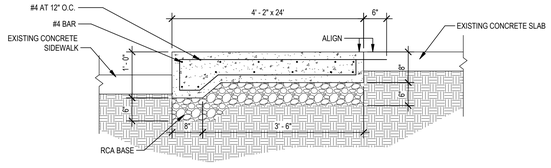
5 SECOND FLOOR DEMOLITION PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



6 PIPE CHASE PROPOSED PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



7 PIPE CHASE RCP DETAIL
SCALE: 1 1/2" = 1'-0"



8 CHILLER PAD EXTENSION
SCALE: 3/4" = 1'-0"

DEMOLITION SYMBOL LEGEND

SYMBOL	DESCRIPTION
	INDICATES EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL REMAINING SURFACES)
	INDICATES EXISTING FLOOR SLAB TO BE SAWCUT TO ACCOMMODATE NEW UNDERSLAB UTILITIES. REFER TO SAWCUT DETAIL FOR ADDITIONAL INFORMATION.
XXXX / XXX / XXX SF	ROOM TAG ROOM NAME ROOM NUMBER ROOM AREA
1	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.

DEMOLITION and REMOVAL NOTES

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVALS, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C., AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR NOT SHOWN THIS DRAWING. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND / OR RECONSTRUCTION.
2. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.
3. G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.

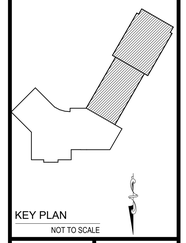
GENERAL CONSTRUCTION NOTES

1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING AND PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
2. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING.
4. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENT NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO OWNER.
5. CONTRACTOR SHALL PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
6. ALL PROJECT WASTE MATERIAL AND RUBBISH SHALL BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER & CONSTRUCTION MANAGER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
7. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER.
8. ALL DEBRIS, DUST AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF WORK.
9. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION OF OWNER OPERATIONS. IF INTERRUPTION IS NECESSARY, WORK MUST NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM OWNER.
10. ALL CONTRACTORS ARE TO COORDINATE INSTALLATION OF THEIR WORK WITH EACH OTHER AND WITH THE WORK BEING PERFORMED UNDER SEPARATE CONTRACTS BY OTHERS AND WORK PERFORMED BY THE OWNER'S VENDOR(S).
11. REFER TO CONSTRUCTION IMPLEMENTATION PLANS AND CONSTRUCTION SPECIAL PROVISIONS (PREPARED BY OTHERS, IF APPLICABLE) FOR ALL REQUIREMENTS FOR TEMPORARY CONSTRUCTION.

REV.	DATE	ITEM

NOTICE

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KEY PLAN
NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENTS - BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK / DUTCHESS COUNTY

PROJECT

H.S. FIRST and SECOND FLOOR DEMOLITION AND PROPOSED PLANS

DWG TITLE

DRAWING BY: E.N.
CHECKED BY: JBR

NOTICE

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SED No:	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENTS - BOND PHASE - 1B MILLBROOK HIGH SCHOOL
DWG TITLE	H.S. FIRST and SECOND FLOOR DEMOLITION AND PROPOSED PLANS
SCALE:	AS NOTED
DATE:	10/22/26
BID PICK UP:	10/26/2026
FILE No.	25-273b

A.2.01 B

GENERAL NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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 230680 FOR FURTHER DETAILS.
6. 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 CONTRACTOR'S COST AS A PART OF THIS CONTRACT.
7. 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 CONTRACTOR'S COST.
8. CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
9. 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.
10. PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
11. 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.
12. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
13. PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.
14. 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.
15. 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.
16. 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.
17. "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-13 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.
18. 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.
19. 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.
20. WHERE THE INSTALLATION OF MECHANICAL SYSTEMS REQUIRES REMOVAL / MODIFICATIONS TO EXISTING CEILINGS, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MODIFICATION / REMOVAL / REINSTALLATION OF CEILING MATERIALS AS A PART OF THEIR CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE. WORK TO INCLUDE RE-FRAMING GRIDS / CUTTING PLASTER OR SHEET ROCK CEILINGS WHEN REQUIRED FOR EQUIPMENT INSTALLATION. UPON COMPLETION OF ALL WORK, BUILDING CEILINGS SHALL BE RETURNED TO ORIGINAL OR BETTER THAN ORIGINAL CONDITION. MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO THE START OF WORK.
21. THERMOSTAT OR SENSOR LOCATIONS NOT SHOWN ON THE DRAWINGS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER.
22. PROTECT/REMOVE ALL EXISTING SENSORS, WIRING OR PNEUMATICS THAT ARE TO REMAIN AND BE REUSED. REINSTALL ONCE FIELD CONDITIONS ALLOW. RELOCATE SENSORS AND EXTEND EXISTING WIRING, OR PNEUMATICS TO NEW LOCATION IF THE EXISTING LOCATION IS NOT SUITABLE FOR REINSTALLATION OF SENSOR.
23. UNITS THAT PROVIDE OUTDOOR AIR AND HAVE STEAM OR HOT WATER COILS SHALL BE PROVIDED WITH A FREEZE STAT AND TIED INTO THE BMS. IF NO BMS EXISTS THEN TIE INTO EQUIPMENT STARTER. WHEN THE FREEZE STAT TRIPS THE EXHAUST AIR AND OUTDOOR DAMPERS SHALL CLOSE RETURN AIR DAMPER SHALL OPEN AND THE HEATING VALVE SHALL FAIL OPEN.

ELECTRICAL WORK & TEMPERATURE CONTROL WIRING UNDER MECHANICAL CONTRACT

1. MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS, VFDS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTERS, VFDS & DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START OF WORK. ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR POWER WIRING FROM DISCONNECT SWITCH TO STARTERS, VFDS AND DISCONNECTS & TO ALL EQUIPMENT LINE AND LOAD VOLTAGE LOADS.
2. POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ANY & ALL ELECTRICAL WORK.

FIRESTOPPING NOTES

1. 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.
2. MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
3. 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.
4. MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC.
5. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 230680 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
6. 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 EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

1. 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.
   - THERMOMETERS SHALL HAVE 9" SCALE W/ THE ABILITY TO ANGLE THE UNIT FOR BETTER VIEWING.

   THERMOMETERS TO BE "WINTERS" #TIM SERIES OR EQUAL, DUAL SCALE / LEAD FREE BRASS THERMOWELL.
2. 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.

   PRESSURE GAUGES SHALL BE FULL STAINLESS STEEL / LIQUID FILLED & SHALL BE 4" DIA. MINIMUM, W/ PRESSURE SNUBBER ("WINTERS" #PFQ SERIES OR EQUAL). PROVIDE GAUGES W/ PRESSURE RANGES APPROPRIATE FOR ACCURATE MEASUREMENT / READING OF THE GAUGE.

EQUIPMENT VENTING NOTES

1. 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" #HY-VENT OR EQUIVALENT.
2. 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.
3. 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.

DUCTWORK NOTES

1. PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 233113, AND IN CONFORMANCE WITH 'SMACNA' SPECIFICATIONS.
2. IF A DUCT ELBOW IS SHOWN TO BE RADIUSED, THEN RADIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
3. 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 UNIT(S). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 233113 & 230713 FOR FURTHER INFORMATION.
4. 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 233113 FOR FURTHER INFORMATION.
5. 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.
6. MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 233113 FOR FURTHER INFORMATION.
7. ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.

TESTING and BALANCING NOTES

1. 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 230593 & 230580 FOR FURTHER DETAILS.
2. 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.
3. IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY 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.

BOILER ROOM and PIPING NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THE REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISES, DROPS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
2. ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
4. MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 230700 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS. UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
5. ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #'S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
6. MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
7. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 230900 FOR FURTHER DETAILS.

DUCTWORK PIPING, EQUIPMENT SHOP DRAWING COORDINATION NOTES:

THE MC SHALL BE RESPONSIBLE TO COORDINATE ALL OF THE NEW EQUIPMENT TO BE INSTALLED INTO SEVERAL SEPARATE SHOP DRAWINGS & ONE (1) COMBINED SHOP DRAWING SHOWING ITEM ITEMS COORDINATED WITH ONE ANOTHER. ITEMS TO COORDINATE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. NEW ROOFTOP EQUIPMENT
2. NEW HYDRONIC HEATING EQUIPMENT INSIDE SPACES
3. NEW DUCTWORK
4. NEW GLYCOL HOT WATER SUPPLY/RETURN PIPING
5. NEW HOT WATER SUPPLY/RETURN PIPING
6. NEW ELECTRICAL HEATING EQUIPMENT INSIDE SPACES
7. NEW VARIABLE REFRIGERANT FLOW (VRF) SYSTEM EEQUIPMENT INSIDE SPACES
8. NEW REFRIGERANT PIPING LINE SETS
9. NEW BRANCH BOXES & VALVE BOXES INSIDE SPACES
10. NEW CONDENSATE DRAIN PIPING
11. NEW CONDENSATE DISPOSAL PUMPS INSIDE SPACES

EXISTING PLUMBING SYSTEMS COORDINATION NOTES

1. ALL EXISTING PLUMBING SYSTEMS, PIPING, & EQUIPMENT SHALL REMAIN AND IS NOT PART OF ANY CONTRACT WORK. THEREFORE, THE MECHANICAL CONTRACTOR (MC) SHALL CAREFULLY COORDINATE HIS/HER NEW MECHANICAL WORK TO NOT DISTURB ANY EXISTING PLUMBING SYSTEMS IN AREA OF WORK.
2. FOR PIPING SHOP DRAWINGS, THE MC SHALL ALSO DRAW OUT ANY EXISTING PLUMBING SYSTEMS (PIPING, EQUIPMENT, ETC) WHICH HAS POTENTIAL TO BE CLOSE TO PROPOSED MECHANICAL SYSTEMS FOR COORDINATION PURPOSES.

EQUIPMENT PRE-PURCHASING NOTES

1. THE OWNER (MILLBROOK SCHOOL DISTRICT) SHALL PRE-PURCHASE THE FOLLOWING TRANE EQUIPMENT & PROVIDE TO THE MECHANICAL CONTRACTOR (M.C.) TO INSTALL:
   A) AIR COOLED CHILLERS—TRANE.
   B) CHILLED WATER DUCT COILS—TRANE
   C) ALL EQUIPMENT NOTED ABOVE SHALL HAVE "FACTORY-CONTROLS" PROVIDED.

2. THE MECHANICAL CONTRACTOR (M.C.) SHALL BE RESPONSIBLE TO FURNISH & INSTALL ALL OTHER EQUIPMENT NOT LISTED IN NOTE #1 ABOVE OR AN APPROVED EQUIVALENT OF SPECIFIED EQUIPMENT..

3. THE MECHANICAL CONTRACTOR (M.C.) SHALL REFER TO THE PROJECT MANUAL FOR FURTHER DETAILS WHICH INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
   A) CONTRACT SUMMARY(IES).
   B) DETAILS COVERING OWNER-PURCHASED EQUIPMENT.
   C) INFORMATION PERTAINING TO SHIPPING, HANDLING, UNLOADING, STORAGE, UNPACKING, & DELIVERY.

4. FOR ALL OF THE ABOVE MANUFACTURER'S LISTED IN NOTE #1, THE PLANS STATE THE MC IS TO FURNISH & INSTALL. HOWEVER, THE OWNER SHALL FURNISH ALL OF THE ABOVE ITEMS & THE MC SHALL BE RESPONSIBLE TO INSTALL, WHICH INCLUDES BUT IS NOT LIMITED TO FACTORY START-UP & COMMISSIONING.

BMS CONTROL SYSTEM WORK NOTES

THE OWNER (MILLBROOK SCHOOL DISTRICT) SHALL HIRE TRANE CONTROLS CONTRACTOR DIRECTLY TO WORK FOR THE DISTRICT TO FURNISH & INSTALL A COMPLETE WORKING BUILDING MANAGEMENT SYSTEM (BMS) IN IT ENTIRETY.

THE CONTROL SYSTEM SHALL BE A TRANE TRACER BUILDING MANAGEMENT SYSTEM (BMS). THE TRANE BMS CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND BUT NOT BE LIMITED TO THE FOLLOWING:

1. TRANE TRACER B.M.S. SYSTEM
2. LOW VOLTAGE ELECTRICAL CONTROL POWER WIRING
3. SEQUENCES OF OPERATION FOR ALL EQUIPMENT NOTED IN PROJECT MANUAL.
4. VALVES, DAMPERS, WELLS SHALL BE FURNISHED BY TRANE CONTROLS & PROVIDED TO MC FOR MC TO INSTALL.

ALL PRE-PURCHASED EQUIPMENT SPECIFIED IN SCHEDULES SHALL HAVE FACTORY CONTROLS.

RESPONSIBILITY OF ALL MECHANICAL WORK FIRESTOPPING / PATCHING

1. FOR ALL NEW MECHANICAL WORK WHICH REQUIRES ANY PATCHING, THE MC SHALL BE RESPONSIBLE FOR HIRING A GC SUBCONTRACTOR TO PERFORM ALL PATCHING WHICH INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:
   A) PIPING PENETRATIONS THROUGH WALLS, FLOORS, ROOFING.
   B) DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, ROOFING.

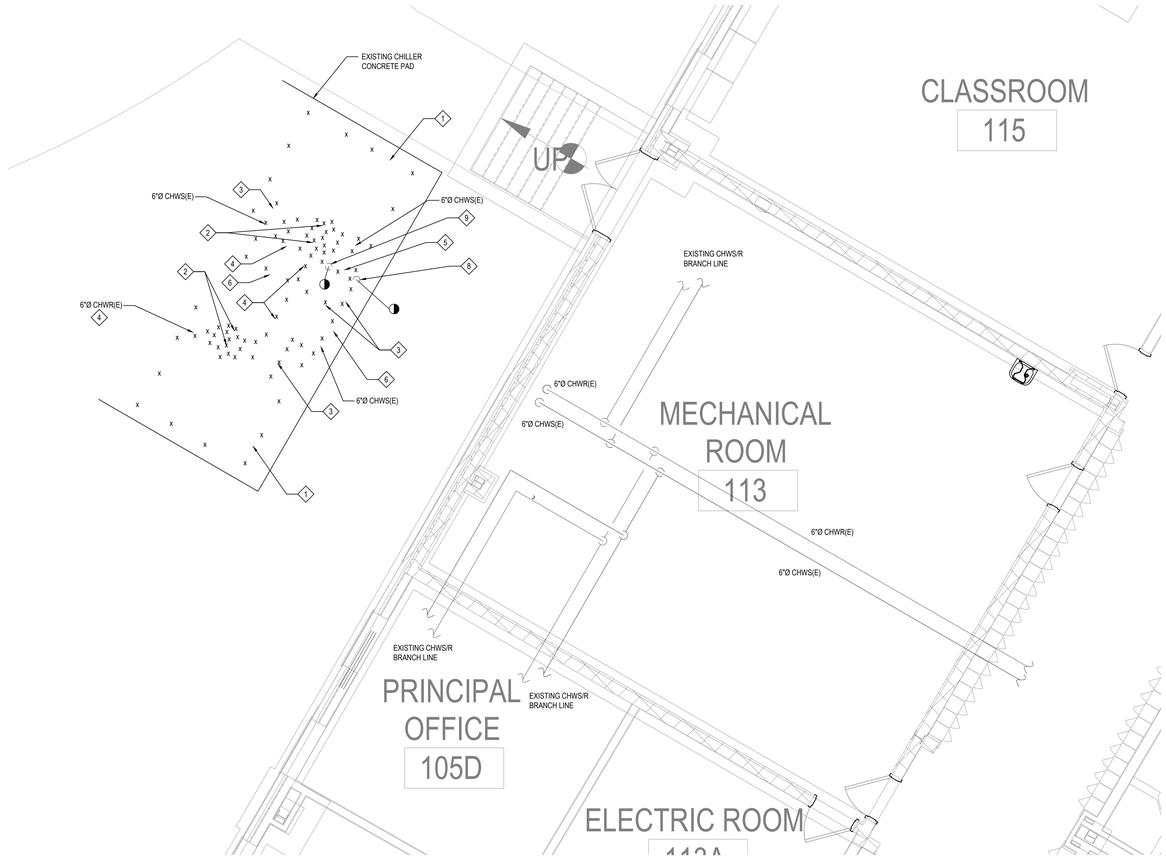
2. MC SHALL BE RESPONSIBLE TO DO ALL FIRE STOPPING TO ALL NEW PIPING & DUCTWORK PENETRATIONS THROUGH WALLS, FLOORS, & ROOFS.

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
B.D.	BACKDRAFT DAMPER
CWS	COLD WATER SUPPLY
CFM	CUBIC FEET OF AIR PER MINUTE
D.	DEEP / DEPTH
DIA./~	DIAMETER
F&T	FLOAT & THERMOSTATIC
FPM	FEET PER MINUTE
FSD	FIRE / SMOKE DAMPER - DUCT MOUNTED
FLEX	FLEXIBLE
FO.	FLAT OVAL DUCTWORK
GAL.	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H.	HIGH
H.C.	HANDICAPPED
HWS	HEATING SYSTEM HOT WATER SUPPLY
HWR	HEATING SYSTEM HOT WATER RETURN
HP.	HORSEPOWER
I.D.	INSIDE DIAMETER
KW.	KILOWATT
L.	LONG
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MIN.	MINIMUM
MBH	BTU x 1,000
MFR.	MANUFACTURER
M.H.	MANHOLE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
G	NATURAL GAS
N.I.C.	NOT IN CONTRACT
No./ #	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OUTSIDE AIR
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.S. & Y	OUTSIDE SCREW & YOKE
O.C.	ON CENTER
PE.	PNEUMATIC / ELECTRIC
PREFAB	PREFABRICATED
PRV	PRESSURE REDUCING VALVE
PSI.	POUNDS PER SQUARE INCH
R.A.	RETURN AIR
REQ'D.	REQUIRED
RPM	REVOLUTIONS PER MINUTE
S.A.	SUPPLY AIR
SCH.	SCHEDULE
S.P.	STATIC PRESSURE
STD.	STANDARD
T	TEMPERATURE
TXV	THERMAL EXPANSION VALVE
TYP.	TYPICAL
VOL.	VOLUME
V.D.	VOLUME DAMPER
VOL.	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
W.	WIDE
WB.	WET BULB TEMPERATURE
WTD	WATER TEMPERATURE DROP
WTR	WATER TEMPERATURE RISE
WPD	WATER PRESSURE DROP
ST or STM	STEAM
EXIST.	EXISTING

MECHANICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
24x12 / 20"~	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS 'W' x 'H'
	NEW SUPPLY DUCTWORK TO RISE UP
	NEW SUPPLY DUCTWORK TO DROP DOWN
	NEW RETURN DUCTWORK TO RISE UP
	NEW RETURN DUCTWORK TO DROP DOWN
	TRANSITION IN DUCTWORK
FD	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
	ROUND DUCTWORK TO RISE UP
	ROUND DUCTWORK TO DROP DOWN
42x18 FO	FLAT OVAL DUCT WORK
	RECTANGULAR TO ROUND DUCT TRANSITION
	ELBOW IN DUCTWORK w/ TURNING VANES
	ELBOW IN DUCTWORK (RADIUS + 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	FL



FIRST FLOOR -HIGH SCHOOL- AREA "B" - BOILER ROOM & EXTERIOR OF BOILER ROOM -EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

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

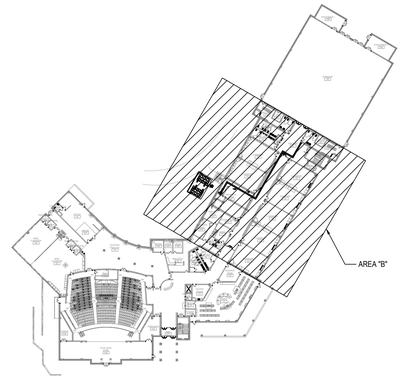
FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - BOILER ROOM & EXTERIOR OF BOILER ROOM - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL HAVE EC DISCONNECT POWER TO EXISTING TWO (2) AIR COOLED CHILLERS & EXISTING FOUR (4) CHILLED WATER PUMPS PRIOR TO START OF DEMOLITION WORK. MC TO THEN DEMO & REMOVE EXISTING AIR COOLED CHILLER(S) AS SHOWN.
2. MC SHALL DEMO & REMOVE EXISTING CHILLED WATER PUMPS. THERE ARE TWO (2) CHILLED WATER PUMPS PER AIR COOLED CHILLER FOR A TOTAL OF FOUR (4) PUMPS.
3. MC SHALL DEMO & REMOVE EXISTING 6"Ø CHILLED WATER SUPPLY (CHWS) PIPING AS SHOWN.
4. MC SHALL DEMO & REMOVE EXISTING 6"Ø CHILLED WATER RETURN (CHWR) PIPING AS SHOWN.
5. MC SHALL DEMO & REMOVE EXISTING 6"Ø CHILLED WATER SYSTEM BY-PASS MIXING CONTROL VALVE AS SHOWN.
6. MC SHALL DEMO & REMOVE EXISTING 6"Ø CHILLER ISOLATION AUTOMATIC CONTROL VALVE AS SHOWN.
7. MC SHALL DEMO & REMOVE EXISTING 6"Ø CHILLER ISOLATION AUTOMATIC CONTROL VALVE AS SHOWN.
8. MC SHALL RE-USE EXISTING 6"Ø UNDERGROUND PIPING CONNECTION FOR CHILLED WATER SUPPLY (CHWS) PIPING AS SHOWN.
9. MC SHALL RE-USE EXISTING 6"Ø UNDERGROUND PIPING CONNECTION FOR CHILLED WATER RETURN (CHWR) PIPING AS SHOWN.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THESE PLANS ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



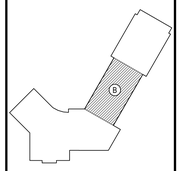
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-FIRST FLOOR MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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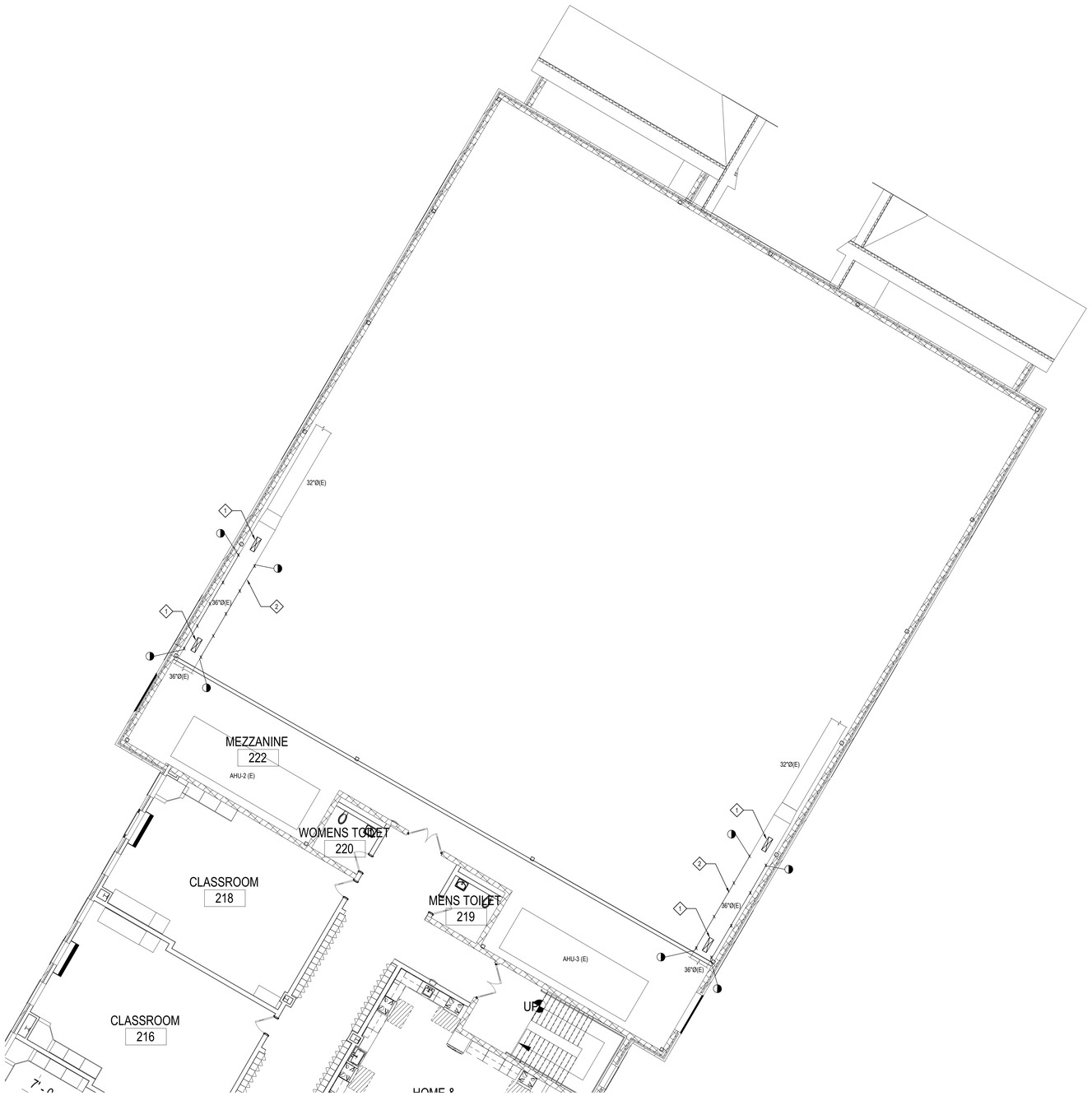
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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-FIRST FLOOR MECH. DEMOLITION WORK PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M1.01 B



SECOND FLOOR -HIGH SCHOOL- AREA "C" - GYMNASIUM & GYMNASIUM MEZZANINE -EQUIPMENT & PIPING DEMOLITION WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

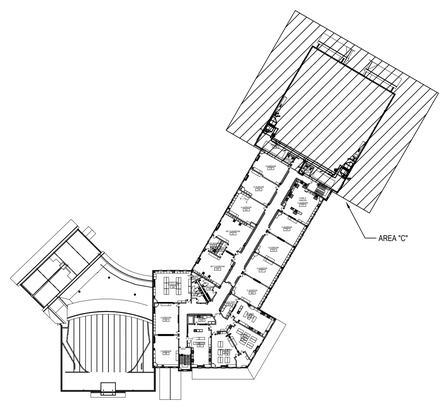
FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" -GYMNASIUM & MEZZANINE - MECHANICAL & DEMOLITION WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL RELOCATE EXISTING 28X10 DRUM SUPPLY AIR LOUVER/GRILLE. REFER TO NEW WORK PLAN FOR NEW LOCATION. MC SHALL VERIFY IN THE FIELD THE EXACT SAME OF THE EXISTING DRUM LOUVER/GRILLE.
2. MC SHALL DEMO & REMOVE EXISTING SECTION OF 36"Ø ROUND CIRCULAR SPIRAL SUPPLY AIR DUCTWORK AS SHOWN.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THESE PLANS ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.



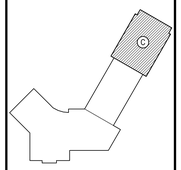
MILLBROOK MIDDLE SCHOOL-SECOND FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "C"-SECOND FLOOR MECHANICAL DEMOLITION WORK PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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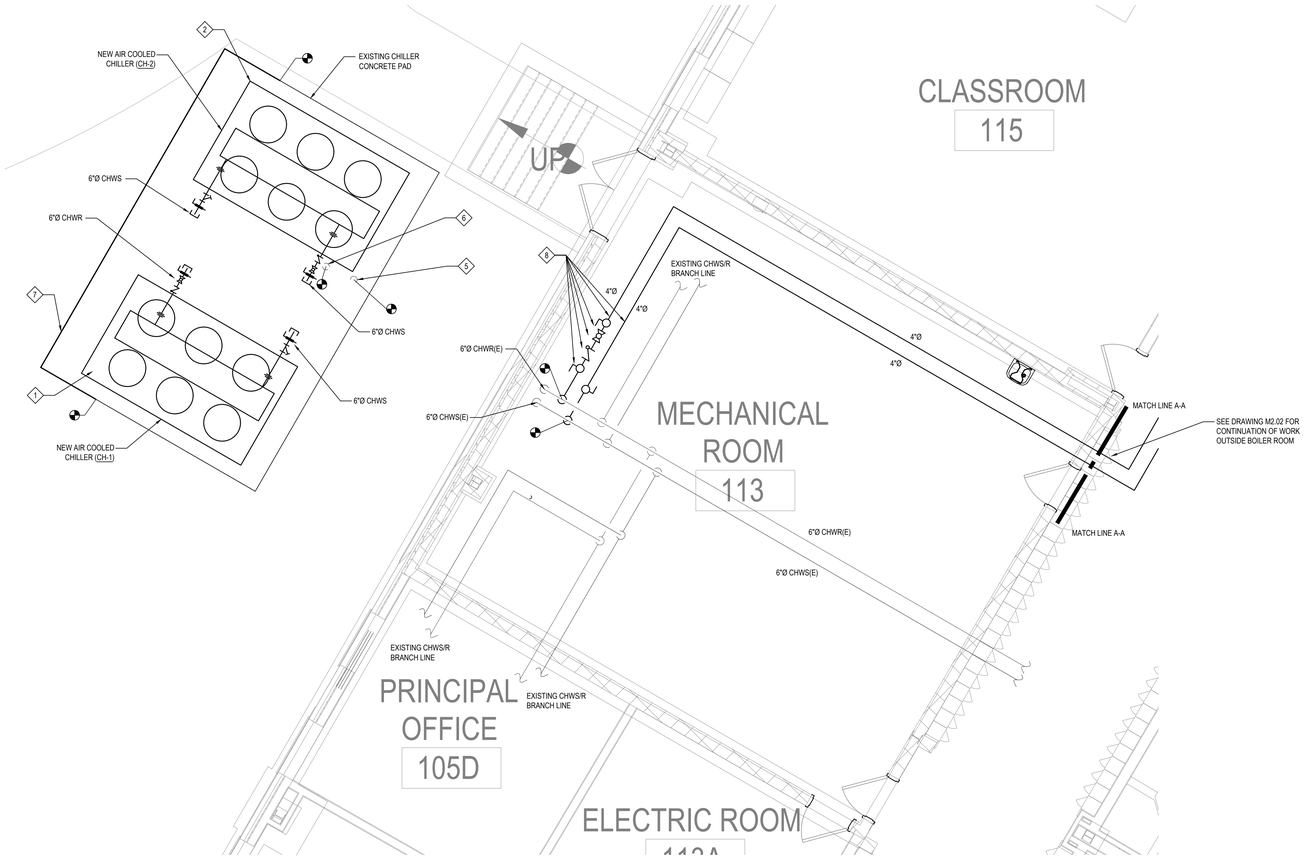
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M1.02 B



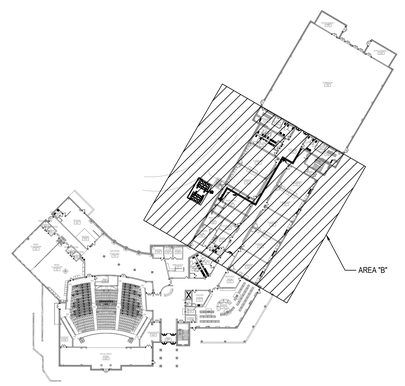
FIRST FLOOR -HIGH SCHOOL- AREA "B" - BOILER ROOM & EXTERIOR OF BOILER ROOM -EQUIPMENT & PIPING NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

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

FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - BOILER ROOM & EXTERIOR OF BOILER ROOM - MECHANICAL NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL INSTALL NEW AIR COOLED CHILLER (CH-1) AS SHOWN. MC SHALL HAVE APPROVED CHILLER MANUFACTURER PROVIDE NEOPRENE VIBRATIONAL ISOLATORS. MC TO COORDINATE POWER WORK WITH EC.
2. MC SHALL INSTALL NEW AIR COOLED CHILLER (CH-2) AS SHOWN. MC SHALL HAVE APPROVED CHILLER MANUFACTURER PROVIDE NEOPRENE VIBRATIONAL ISOLATORS. MC TO COORDINATE POWER WORK WITH EC.
3. MC SHALL INSTALL NEW 6"Ø CHILLED WATER SUPPLY PIPING CONNECTION FOR NEW CHILLER SHOWN. NEW CHILLED WATER SUPPLY PIPING CONNECTION SHALL HAVE A STRAINER, BUTTERFLY VALVE, UNION, FLEXIBLE PIPING CONNECTION & SHALL BE CAPPED FOR ENERGY PERFORMANCE CONTRACT (EPC) CONTRACTOR TO INSTALL REMAINDER OF PIPING REQUIRED FOR THERMAL STORAGE PLANT. MC SHALL ALSO INSTALL PRESSURE GAUGE AND TEMPERATURE GAUGE.
4. MC SHALL INSTALL NEW 6"Ø CHILLED WATER RETURN PIPING CONNECTION FOR NEW CHILLER SHOWN. NEW CHILLED WATER RETURN PIPING CONNECTION SHALL HAVE A BALANCING VALVE (CIRCUIT SETTER), BUTTERFLY VALVE, UNION, CHECK VALVE, & FLEXIBLE PIPING CONNECTION & SHALL BE CAPPED FOR ENERGY PERFORMANCE CONTRACT (EPC) CONTRACTOR TO INSTALL REMAINDER OF PIPING REQUIRED FOR THERMAL STORAGE PLANT. MC SHALL ALSO INSTALL PRESSURE GAUGE AND TEMPERATURE GAUGE.
5. MC SHALL RE-USE EXISTING 6"Ø UNDERGROUND PIPING CONNECTION FOR CHILLED WATER SUPPLY (CHWS) PIPING AS SHOWN TO BE CAPPED & SHALL BE USED BY ENERGY PERFORMANCE CONTRACT (EPC) CONTRACTOR FOR NEW PIPING FOR THERMAL STORAGE PLANT.
6. EXISTING 6"Ø UNDERGROUND PIPING CONNECTION FOR CHILLED WATER RETURN (CHWR) PIPING AS SHOWN TO BE CAPPED & SHALL BE USED BY ENERGY PERFORMANCE CONTRACT (EPC) CONTRACTOR FOR NEW PIPING FOR THERMAL STORAGE PLANT.
7. MC SHALL HAVE GC EXTEND & POUR NEW 8" REINFORCED CONCRETE PAD AS SHOWN.
8. MC SHALL RUN NEW 4"Ø CHWS/R LINES TO SERVE NEW GYMNASIUM AHU CHILLED WATER DUCT COILS. REFER TO DRAWING M2.03 FOR NEW CHILLED WATER DUCT COIL WORK. MC SHALL FURNISH & INSTALL SHUT OFF BALL VALVES IN EACH LINE AS SHOWN. FOR CHWR LINE, MC SHALL ALSO FURNISH & INSTALL NEW BALANCING VALVE & CHECK VALVE IN BETWEEN TWO (2) SHUT-OFF BALL VALVES.



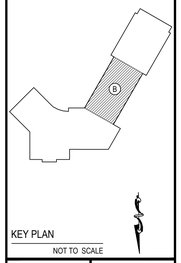
MILLBROOK MIDDLE SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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KEY PLAN

NOT TO SCALE

PROJECT

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "B"-FIRST FLOOR CHILLER NEW WORK PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

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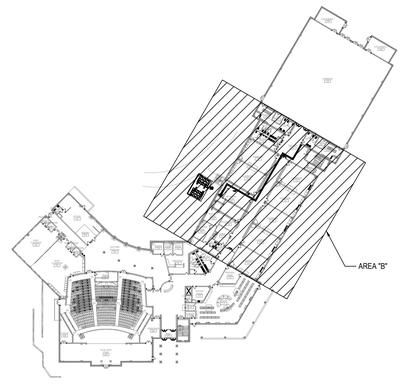
FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - MECHANICAL PIPING NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL SHALL RUN NEW 4"Ø CHILLED WATER SUPPLY & RETURN LINES IN CEILING OF CORRIDOR SPACES. MC SHALL BE RESPONSIBLE TO REMOVE ANY & ALL EXISTING REQUIRED DROP CEILING TILES TO INSTALL NEW PIPING & UPON COMPLETION OF THE WORK, RE-INSTALL EXISTING DROP CEILING TILES. ANY TILES DAMAGED SHALL BE REPLACED BY THE MC WITH AN EQUAL TO EXISTING TILES AT THE MC'S OWN EXPENSE.
2. MC SHALL SHALL RUN NEW 4"Ø CHILLED WATER SUPPLY & RETURN LINES UP THROUGH CEILING SLAB. MC TO HAVE GC CORE DRILL OPENINGS IN CEILING SLAB WITH MC PRESENT. MC TO THEN RUN NEW LINES & PROVIDE FIRE STOPPING AS PER PROJECT MANUAL REQUIREMENTS. SEE DRAWING M2.03 FOR CONTINUATION ON SECOND FLOOR.



FIRST FLOOR -HIGH SCHOOL- AREA "B" -PIPING NEW WORK - PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"



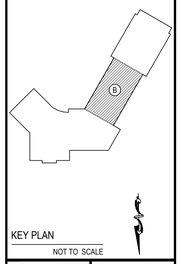
MILLBROOK HIGH SCHOOL-FIRST FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE
MECHANICAL
AREA "B"-FIRST FLOOR MECHANICAL PIPING NEW WORK PLAN

DRAWING BY: U.F.
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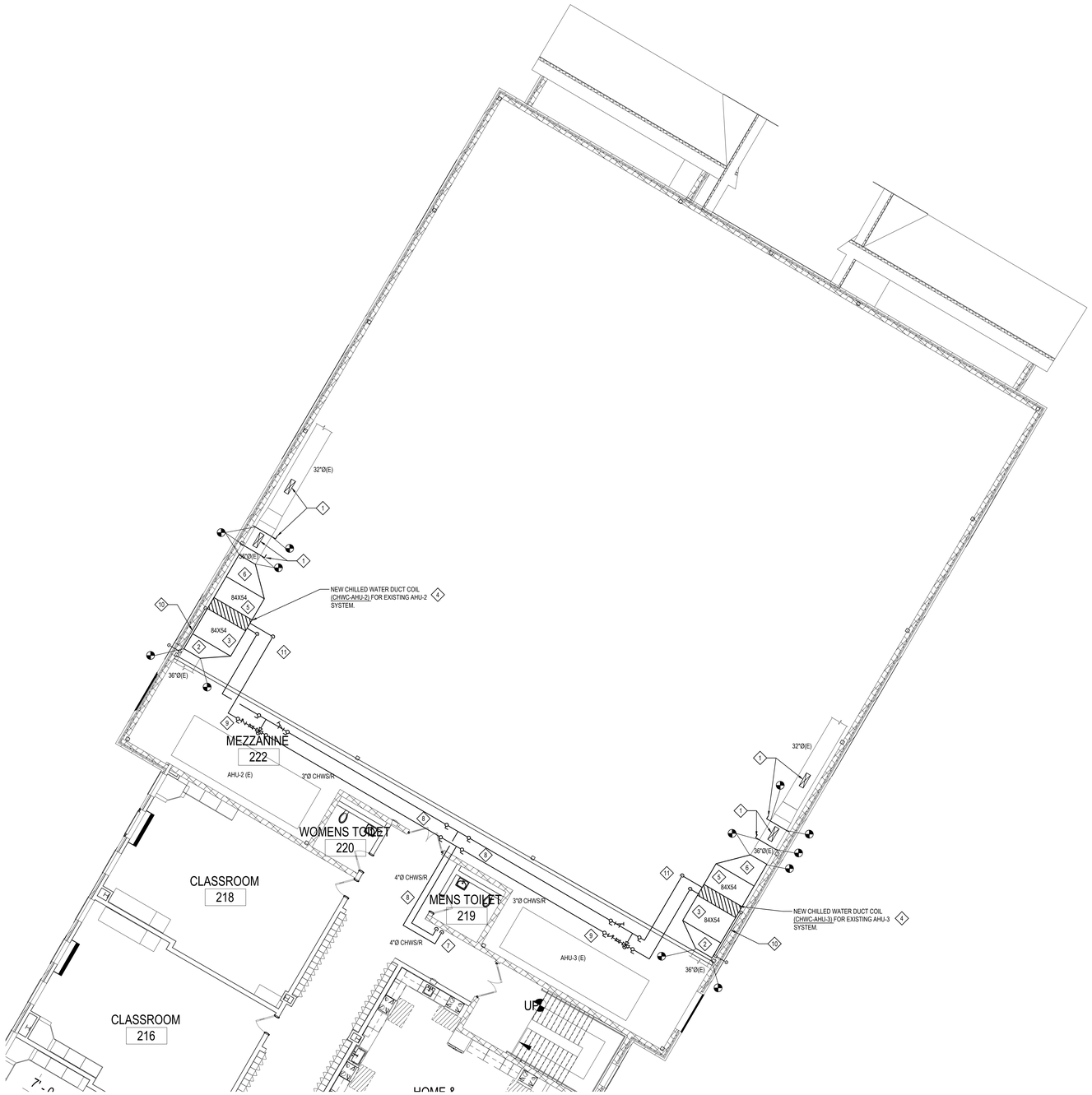
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PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-FIRST FLOOR MECH. PIPING NEW WORK PLAN
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M2.02 B



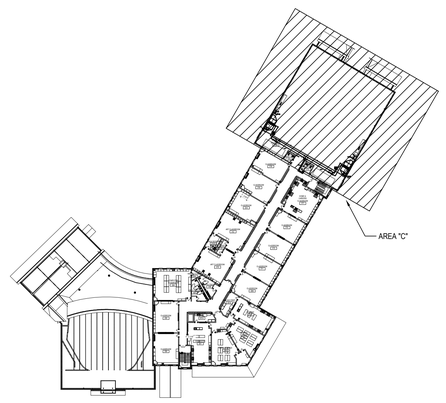
SECOND FLOOR -HIGH SCHOOL- AREA "C" - GYMNASIUM & GYMNASIUM MEZZANINE -EQUIPMENT & PIPING NEW WORK - PARTIAL PLAN

MILLBROOK MIDDLE SCHOOL

SCALE: 1/8" = 1'-0"

SECOND FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" -GYMNASIUM & MEZZANINE - MECHANICAL & NEW WORK - PARTIAL PLAN - KEY PLAN NOTES:

1. MC SHALL INSTALL EXISTING RELOCATED 28X10 DRUM SUPPLY AIR LOUVER/GRILLE IN LOCATION SHOWN. MC TO INSTALL NEW VOLUME DAMPERS IN EXISTING ROUND SUPPLY DUCT BEFORE RELOCATED 28X10 DRUM LOUVER/GRILLE.
2. MC SHALL DO AN ECCENTRIC DUCTWORK TRANSITION FROM 36"Ø ROUND DUCTWORK TO 84X54 RECTANGULAR DUCTWORK. ECCENTRIC TRANSITION PIECE SHALL BE ECCENTRIC IN BOTH THE RIGHT TO LEFT AND THE TOP TO BOTTOM PLANS OF THE SUPPLY DUCTWORK. EXISTING SUPPLY DUCTWORK RUNS BELOW EXISTING BAR JOIST/BEAM STRUCTURES IN GYM. SPACE IS AN OPENING CEILING.
3. MC SHALL INSTALL A 84X54 STRAIGHT PIECE DUCTWORK BEFORE NEW CHILLED WATER DUCT COIL SHOWN TO OBTAIN PROPER FACE VELOCITY TO PREVENT CONDENSATE CARRYOVER INTO SUPPLY GRILLES.
4. MC SHALL FURNISH & INSTALL NEW CHILLED WATER DUCT COIL (REFER TO PLANS FOR TAG OF COIL) AS SHOWN.
5. MC SHALL INSTALL A 84X54 STRAIGHT PIECE DUCTWORK AFTER NEW CHILLED WATER DUCT COIL AS SHOWN TO PREVENT CONDENSATE CARRYOVER BEFORE FIRST SUPPLY GRILLE.
6. MC SHALL DO AN ECCENTRIC DUCTWORK TRANSITION FROM 84X54 SQUARE DUCTWORK TO A 36"Ø ROUND DUCTWORK. ECCENTRIC TRANSITION PIECE SHALL BE ECCENTRIC IN BOTH THE RIGHT TO LEFT AND THE TOP TO BOTTOM PLANS OF THE SUPPLY DUCTWORK. EXISTING SUPPLY DUCTWORK RUNS BELOW EXISTING BAR JOIST/BEAM STRUCTURES IN GYM. SPACE IS AN OPENING CEILING.
7. MC SHALL RUN NEW 4"Ø CHWS/R PIPING FROM FIRST FLOOR CEILING PLENUM UP THROUGH FLOOR SLAB & RUN UP ALONG WALL AS SHOWN INTO CEILING PLENUM SPACE OF SECOND FLOOR. REFER TO DRAWING M2.02 FOR CONTINUATION ON FIRST FLOOR. MC TO FURNISH & INSTALL A NEW 20X10 STERLING THREE-SIDED 16-GAUGE PIPING COVER. ARCHITECT TO SELECT COLOR OF PIPING ENCLOSURE.
8. MC SHALL RUN NEW 4"Ø CHWS/R PIPING INTO MEZZANINE (MECHANICAL ROOM) AS SHOWN. MC TO THEN SPLIT PIPING INTO TWO (2) NEW 3"Ø CHWS/R LINES AS SHOWN. PROVIDE SHUT OFF BALL VALVES IN EACH LINE FOR SUPPLY & RETURN.
9. FOR CONTROL OF CHILLED WATER COIL, MC SHALL FURNISH & INSTALL THE FOLLOWING:
   - A) CHILLED WATER SUPPLY LINE - MC TO FURNISH & INSTALL NEW SHUT OFF ISOLATION BALL VALVES & A STRAINER IN BETWEEN SHUT OFF VALVES AS SHOWN IN MEZZANINE SPACE FOR EASY ACCESS FOR OWNER.
   - B) CHILLED WATER RETURN LINE - MC TO FURNISH & INSTALL NEW SHUT OFF ISOLATION BALL VALVES & A CHECK VALVE, BALANCING VALVE, AND NEW DDC THREE-WAY CHILLED WATER MODULATING CONTROL VALVE.
10. FOR NEW CHILLED WATER DUCT COIL, MC SHALL CONNECT & RUN A NEW 1"Ø TYPE L COPPER CONDENSATE DRAIN LINE FROM COIL & GRAVITY PITCH AT 1/8-TH INCH GRAVITY PITCH & RUN AS SHOWN TO CORNER OF GYM SPACE & COME DOWN TO 12" ABOVE FINISHED FLOOR OF SPACE. MC TO THEN HAVE GC CORE DRILL EXTERIOR WALL WITH MC PRESENT & MC TO THEN RUN LINE TO EXTERIOR & TERMINATE IN A 90-DEGREE GOOSENECK. MC TO CAULK AROUND PENETRATION TO MAKE WATER TIGHT.
11. MC SHALL RUN NEW 4"Ø CHWS/R PIPING INTO GYM SPACE UP HIGH AND WITHIN EXISTING STRUCTURAL BAR JOISTS/BEAMS SO IT IS NOT IN ACCESS OF GYM ACTIVITY. MC TO THEN RUN PIPING DOWN NEAR COIL & CONNECT TO INLET/OUTLET OF NEW COIL.



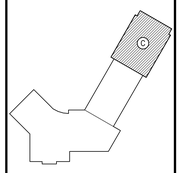
MILLBROOK MIDDLE SCHOOL-SECOND FLOOR LEVEL-OVERALL KEYPLAN

SCALE: 1/64" = 1'-0"

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KEY PLAN

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PROJECT

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CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE

MECHANICAL
AREA "C"-SECOND FLOOR MECHANICAL NEW WORK PLAN

DRAWING BY: U.F.

CHECK BY: U.F.

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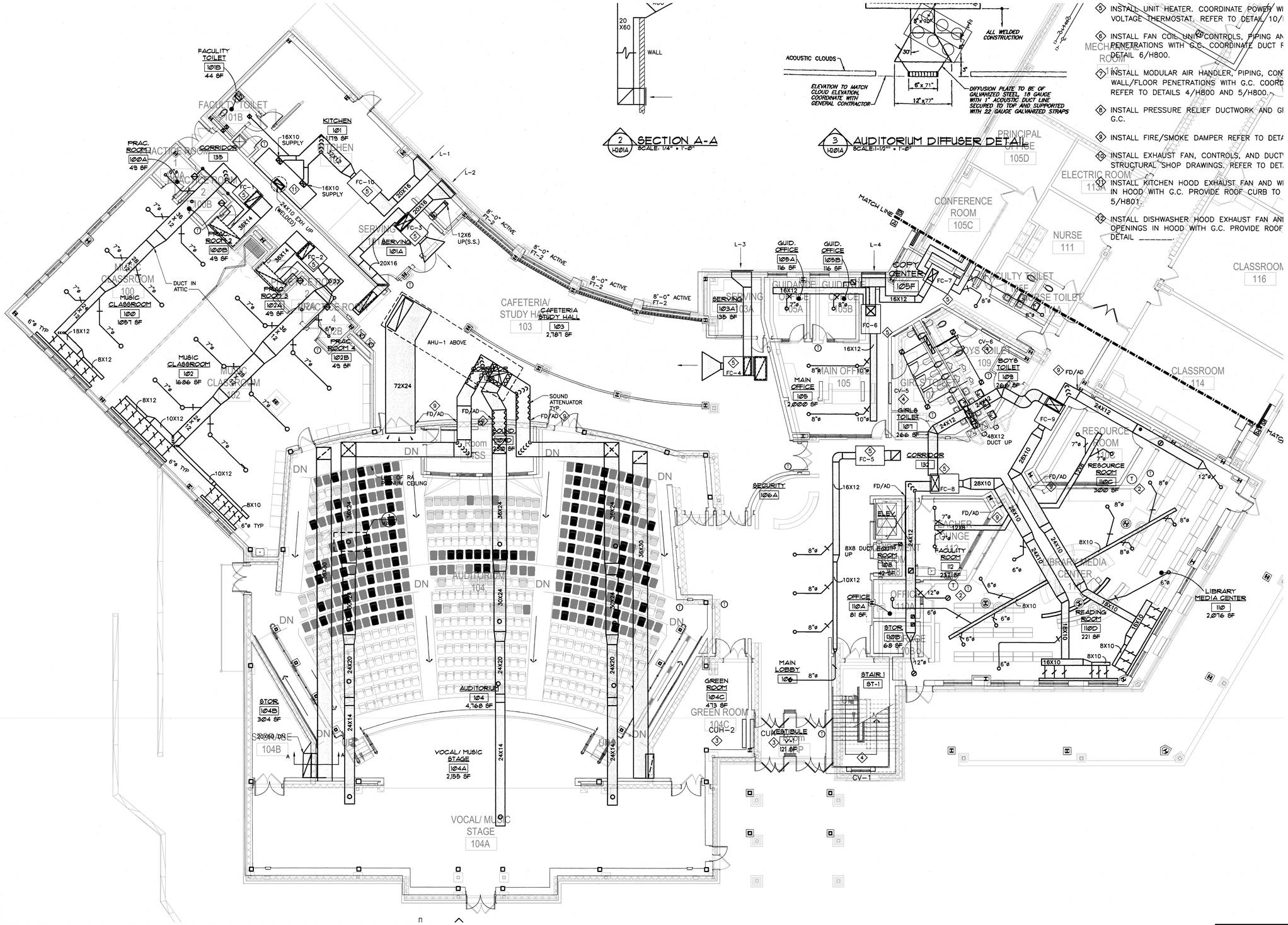
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M2.03 B



2 H201A SECTION A-A
SCALE: 1/4" = 1'-0"

3 H201A AUDITORIUM DIFFUSER DETAIL
SCALE: 1-1/2" = 1'-0"

FIRST FLOOR -HIGH SCHOOL- AREA "A" - FIRST FLOOR - EXISTING EQUIPMENT AND DUCTWORK- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "A" - EXISTING EQUIPMENT & DUCTWORK - PARTIAL PLAN - NOTES:

1. MC SHALL PROVIDE CONTROLS SEQUENCES OF OPERATION FOR ALL EXISTING EQUIPMENT SHOWN ON THIS PLAN & HIRE A BMS/CONTROLS SUBCONTRACTOR TO INTEGRATE ALL EQUIPMENT INTO AN OWNER-PURCHASED TRANE TRACER BMS CONTROL SYSTEM. REFER TO MECHANICAL CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

5. INSTALL UNIT HEATER. COORDINATE POWER WI VOLTAGE THERMOSTAT. REFER TO DETAIL 10/
6. INSTALL FAN COIL UNIT CONTROLS, PIPING AN PENETRATIONS WITH G.C. COORDINATE DUCT F DETAIL 6/H800.
7. INSTALL MODULAR AIR HANDLER, PIPING, CON WALL/FLOOR PENETRATIONS WITH G.C. COORD REFER TO DETAILS 4/H800 AND 5/H800.
8. INSTALL PRESSURE RELIEF DUCTWORK AND GI G.C.
9. INSTALL FIRE/SMOKE DAMPER REFER TO DETA
10. INSTALL EXHAUST FAN, CONTROLS, AND DUCT STRUCTURAL SHOP DRAWINGS. REFER TO DET.
11. INSTALL KITCHEN HOOD EXHAUST FAN AND WI IN HOOD WITH G.C. PROVIDE ROOF CURB TO 5/H801.
12. INSTALL DISHWASHER HOOD EXHAUST FAN ANI OPENINGS IN HOOD WITH G.C. PROVIDE ROOF DETAIL _____.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THESE PLANS ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING.
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING RETURN AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

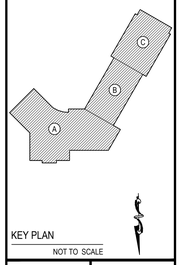
GENERAL MECHANICAL CONTROLS CONSTRUCTION NOTES:

1. NEW DDC THERMOSTAT SHALL BE DESIGNATED AS: (T)
2. MC SHALL HAVE BMS SUB-CONTRACTOR FURNISH & INSTALL NEW DDC WALL MOUNTED THERMOSTAT SHOWN IN NOTE #1 ABOVE.
3. FOR SPACES WHERE A NEW DDC THERMOSTAT IS SHOWN NEXT TO AN EXISTING DDC THERMOSTAT, MC SHALL DEMO & REMOVE EXISTING WALL MOUNTED THERMOSTAT & INSTALL NEW WALL MOUNTED DDC THERMOSTAT.
4. MC SHALL BE RESPONSIBLE AT THE START OF THE PROJECT TO WALK THE ENTIRE SCHOOL BUILDING & EVERY SPACE AND MARK UP THE LOCATION OF ALL EXISTING THERMOSTATS ON WALLS & PROVIDE TO ARCHITECT/ENGINEER OF RECORD TO REVIEW PRIOR TO START OF ANY DEMOLITION WORK.
5. FOR CONSTANT VOLUME HVAC SYSTEMS WHICH SERVE MULTIPLE SPACES, THE BMS CONTRACTOR SHALL FURNISH & INSTALL A RETURN DUCTWORK MOUNTED TEMPERATURE SENSOR TO CAPTURE THE AVERAGE RETURN TEMPERATURE COMING BACK FROM ALL OF THE SPACES BEING SERVED BY THE UNIT.

REV.	DATE	ITEM

NOTICE

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KEY PLAN
NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUTCHESS COUNTY

DWG TITLE
MECHANICAL
AREA "A"-FIRST FLOOR-EXISTING EQUIPMENT AND DUCTWORK

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-1ST FLR. EXIST. MECH & DUCTWK. PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.01 B



FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - EXISTING EQUIPMENT & DUCTWORK - PARTIAL PLAN - NOTES:

1. MC SHALL PROVIDE CONTROLS SEQUENCES OF OPERATION FOR ALL EXISTING EQUIPMENT SHOWN ON THIS PLAN & HIRE A BMS/CONTROLS SUBCONTRACTOR TO INTEGRATE ALL EQUIPMENT INTO AN OWNER-PURCHASED TRANE TRACER BMS CONTROL SYSTEM. REFER TO MECHANICAL CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL MECHANICAL CONTROLS CONSTRUCTION NOTES:

1. NEW DDC THERMOSTAT SHALL BE DESIGNATED AS: (1)
2. MC SHALL HAVE BMS SUB-CONTRACTOR FURNISH & INSTALL NEW DDC WALL MOUNTED THERMOSTAT SHOWN IN NOTE #1 ABOVE.
3. FOR SPACES WHERE A NEW DDC THERMOSTAT IS SHOWN NEXT TO AN EXISTING DDC THERMOSTAT, MC SHALL DEMO & REMOVE EXISTING WALL MOUNTED THERMOSTAT & INSTALL NEW WALL MOUNTED DDC THERMOSTAT.
4. MC SHALL BE RESPONSIBLE AT THE START OF THE PROJECT TO WALK THE ENTIRE SCHOOL BUILDING & EVERY SPACE AND MARK UP THE LOCATION OF ALL EXISTING THERMOSTATS ON WALLS & PROVIDE TO ARCHITECT/ENGINEER OF RECORD TO REVIEW PRIOR TO START OF ANY DEMOLITION WORK.
5. FOR CONSTANT VOLUME HVAC SYSTEMS WHICH SERVE MULTIPLE SPACES, THE BMS CONTRACTOR SHALL FURNISH & INSTALL A RETURN DUCTWORK MOUNTED TEMPERATURE SENSOR TO CAPTURE THE AVERAGE RETURN TEMPERATURE COMING BACK FROM ALL OF THE SPACES BEING SERVED BY THE UNIT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

THE MC SHALL HIRE A QUALIFIED SERVICE CONTROLS CONTRACTOR TO CONDUCT A WALK THROUGH WITH OWNER-HIRED TRANE CONTROLS CONTRACTING DIVISION/GROUP PRIOR TO THE START OF ANY WORK TO HELP IDENTIFY ALL EXISTING BMS SYSTEM HARDWARE, CONTROL PANELS, AND WIRING REQUIRED TO BE REMOVED IN EXISTING CONTROLS DEMOLITION WORKSCOPE.

1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THESE PLANS ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
2. MC SHALL REMOVE THE FOLLOWING EXISTING CONTROLS COMPONENTS AS FOLLOWS PER EACH EXISTING HVAC EQUIPMENT BEING REMOVED:
   - 2.1. EXISTING WALL/ROOM SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
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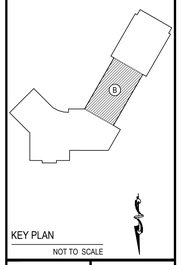
FIRST FLOOR -HIGH SCHOOL- AREA "B" - FIRST FLOOR - EXISTING EQUIPMENT AND DUCTWORK- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUTCHESS COUNTY

MECHANICAL
"B"-FIRST FLOOR-EXISTING EQUIPMENT AND DUCTWORK

PROJECT

DWG TITLE AREA "B"-1ST FLR. EXIST. MECH & DUCTWK. PLAN

DRAWING BY: U.F.
CHECK BY: U.F.

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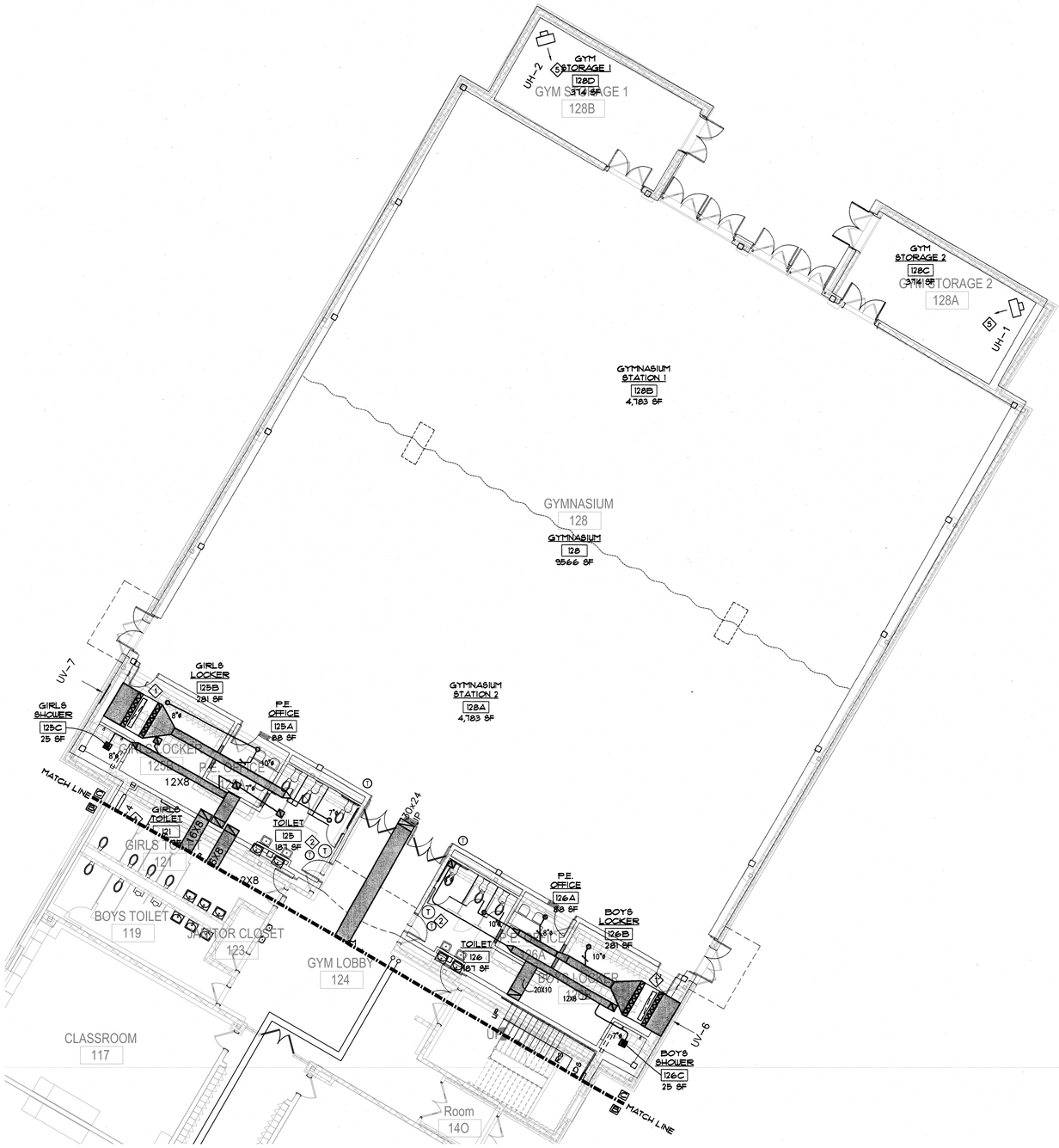
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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-1ST FLR. EXIST. MECH & DUCTWK. PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.02 B



FIRST FLOOR -HIGH SCHOOL- AREA "C" - FIRST FLOOR - EXISTING EQUIPMENT AND DUCTWORK- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "C" - EXISTING EQUIPMENT & DUCTWORK - PARTIAL PLAN - NOTES:

1. MC SHALL PROVIDE CONTROLS SEQUENCES OF OPERATION FOR ALL EXISTING EQUIPMENT SHOWN ON THIS PLAN & HIRE A BMS/CONTROLS SUBCONTRACTOR TO INTEGRATE ALL EQUIPMENT INTO AN OWNER-PURCHASED TRANE TRACER BMS CONTROL SYSTEM. REFER TO MECHANICAL CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL MECHANICAL CONTROLS CONSTRUCTION NOTES:

1. NEW DDC THERMOSTAT SHALL BE DESIGNATED AS: T
2. MC SHALL HAVE BMS SUB-CONTRACTOR FURNISH & INSTALL NEW DDC WALL MOUNTED THERMOSTAT SHOWN IN NOTE #1 ABOVE.
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5. FOR CONSTANT VOLUME HVAC SYSTEMS WHICH SERVE MULTIPLE SPACES, THE BMS CONTRACTOR SHALL FURNISH & INSTALL A RETURN DUCTWORK MOUNTED TEMPERATURE SENSOR TO CAPTURE THE AVERAGE RETURN TEMPERATURE COMING BACK FROM ALL OF THE SPACES BEING SERVED BY THE UNIT.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

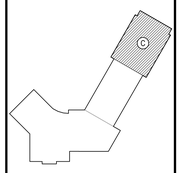
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1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THESE PLANS ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
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3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT
MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE
MECHANICAL
AREA "C"-FIRST FLOOR-EXISTING EQUIPMENT AND DUCTWORK

DRAWING BY: U.F.
CHECK BY: U.F.

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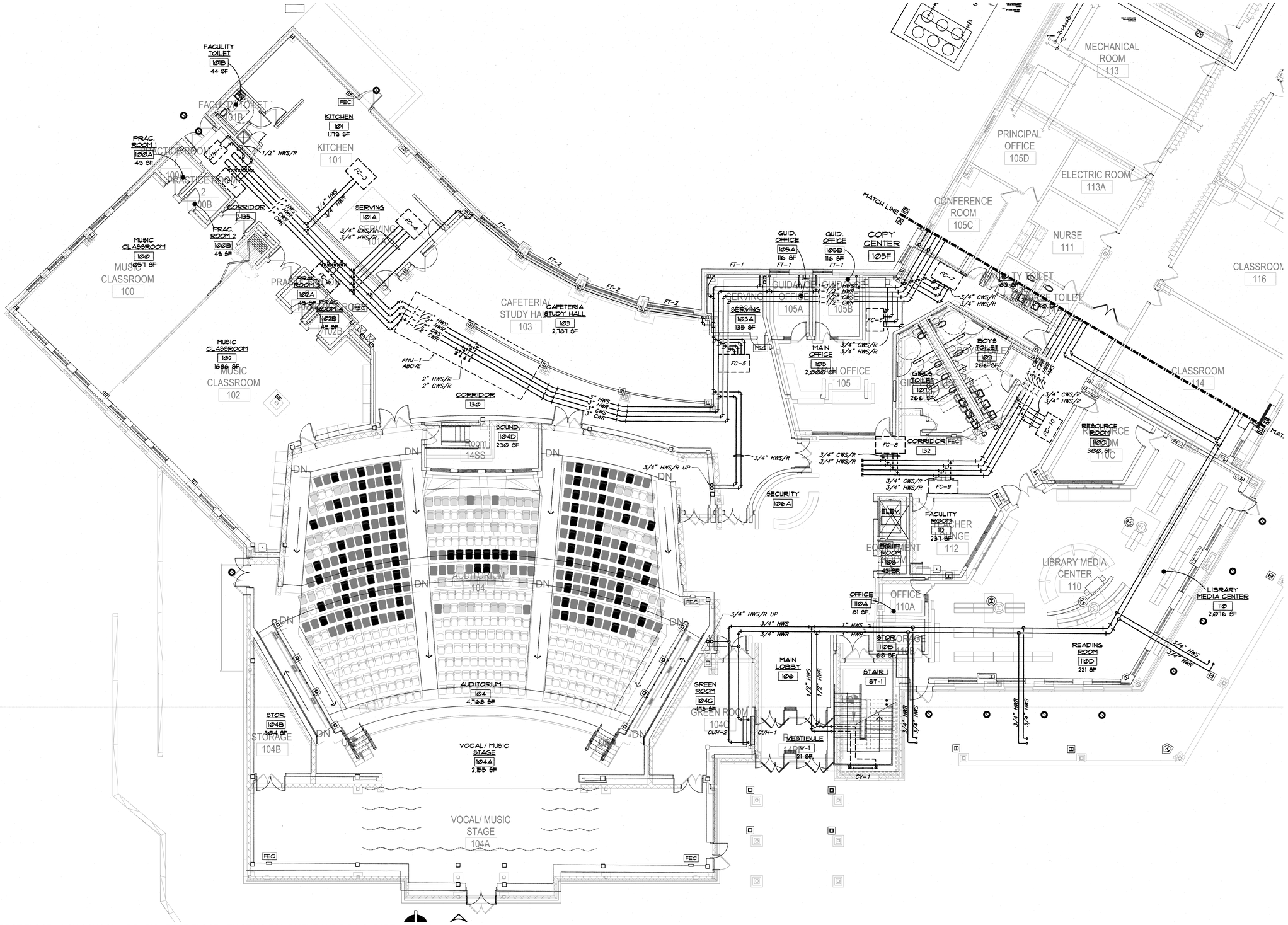
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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "C"-1ST FLR. EXIST. MECH & DUCTWK. PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.03 B



FIRST FLOOR -HIGH SCHOOL- AREA "A" - FIRST FLOOR - EXISTING EQUIPMENT AND PIPING- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "A" - EXISTING EQUIPMENT & PIPING - PARTIAL PLAN - NOTES:

1. MC SHALL PROVIDE CONTROLS SEQUENCES OF OPERATION FOR ALL EXISTING EQUIPMENT SHOWN ON THIS PLAN & HIRE A BMS/CONTROLS SUBCONTRACTOR TO INTEGRATE ALL EQUIPMENT INTO AN OWNER-PURCHASED TRANE TRACER BMS CONTROL SYSTEM. REFER TO MECHANICAL CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

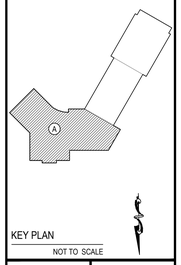
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1. ALL EXISTING HVAC EQUIPMENT BEING SHOWN ON THE DEMOLITION PLAN ABOVE SHALL BE ASSUMED TO HAVE THE FOLLOWING EXISTING CONTROLS COMPONENTS: LOCAL CONTROLLER WITHIN EQUIPMENT, CONTROL PANEL ON EITHER THE EXISTING ROOM WALL OR EXISTING ROOM CEILING PLENUM WHICH PICKS UP THE EQUIPMENT.
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   - 2.2. EXISTING DUCTWORK SENSORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.3. EXISTING SENSORS IN THE PIPING OF EACH SYSTEM SHOWN ON THE PLANS
   - 2.4. EXISTING PUMP CONTROLLERS FOR THE PUMPS THAT ARE SCHEDULED TO BE REMOVED. ALL OTHER EXISTING PUMPS AND THEIR CONTROLLERS ARE TO REMAIN.
3. MC SHALL DISCONNECT AND SAFE OFF EXISTING 120V OR HIGHER VOLTAGE CONTROL WIRING IN A PROPERLY SIZED NEW JUNCTION BOX. THE JUNCTION BOX SHALL BE CLEARLY LABELED TO INDICATE WHICH CIRCUIT THE POWER IS FED FROM.

REV.	DATE	ITEM

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-FIRST FLOOR-EXISTING EQUIPMENT AND PIPING

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-1ST FLR. EXIST. MECH & PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.04 B



FIRST FLOOR -HIGH SCHOOL- AREA "B" - FIRST FLOOR - EXISTING EQUIPMENT AND PIPING- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

FIRST FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - EXISTING EQUIPMENT & PIPING - PARTIAL PLAN - NOTES:

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EXISTING BUILDING MANAGEMENT SYSTEM (BMS) DEMOLITION GENERAL NOTES:

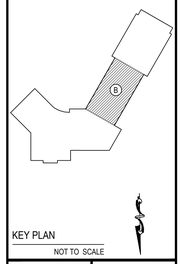
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

PROJECT

MECHANICAL
AREA "B"-FIRST FLOOR-EXISTING EQUIPMENT AND PIPING

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-1ST FLR. EXIST. MECH & PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.05 B



SECOND FLOOR -HIGH SCHOOL- AREA "A" - FIRST FLOOR - EXISTING EQUIPMENT AND DUCTWORK- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

SECOND FLOOR - MILLBROOK HIGH SCHOOL - AREA "A" - EXISTING EQUIPMENT & DUCTWORK - PARTIAL PLAN - NOTES:

1. MC SHALL PROVIDE CONTROLS SEQUENCES OF OPERATION FOR ALL EXISTING EQUIPMENT SHOWN ON THIS PLAN & HIRE A BMS/CONTROLS SUBCONTRACTOR TO INTEGRATE ALL EQUIPMENT INTO AN OWNER-PURCHASED TRANE TRACER BMS CONTROL SYSTEM. REFER TO MECHANICAL CONTROLS SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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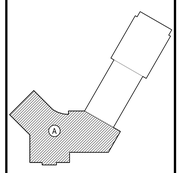
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "A"-SECOND FLOOR-EXISTING EQUIPMENT AND DUCTWORK

DRAWING BY: U.F.
CHECK BY: U.F.

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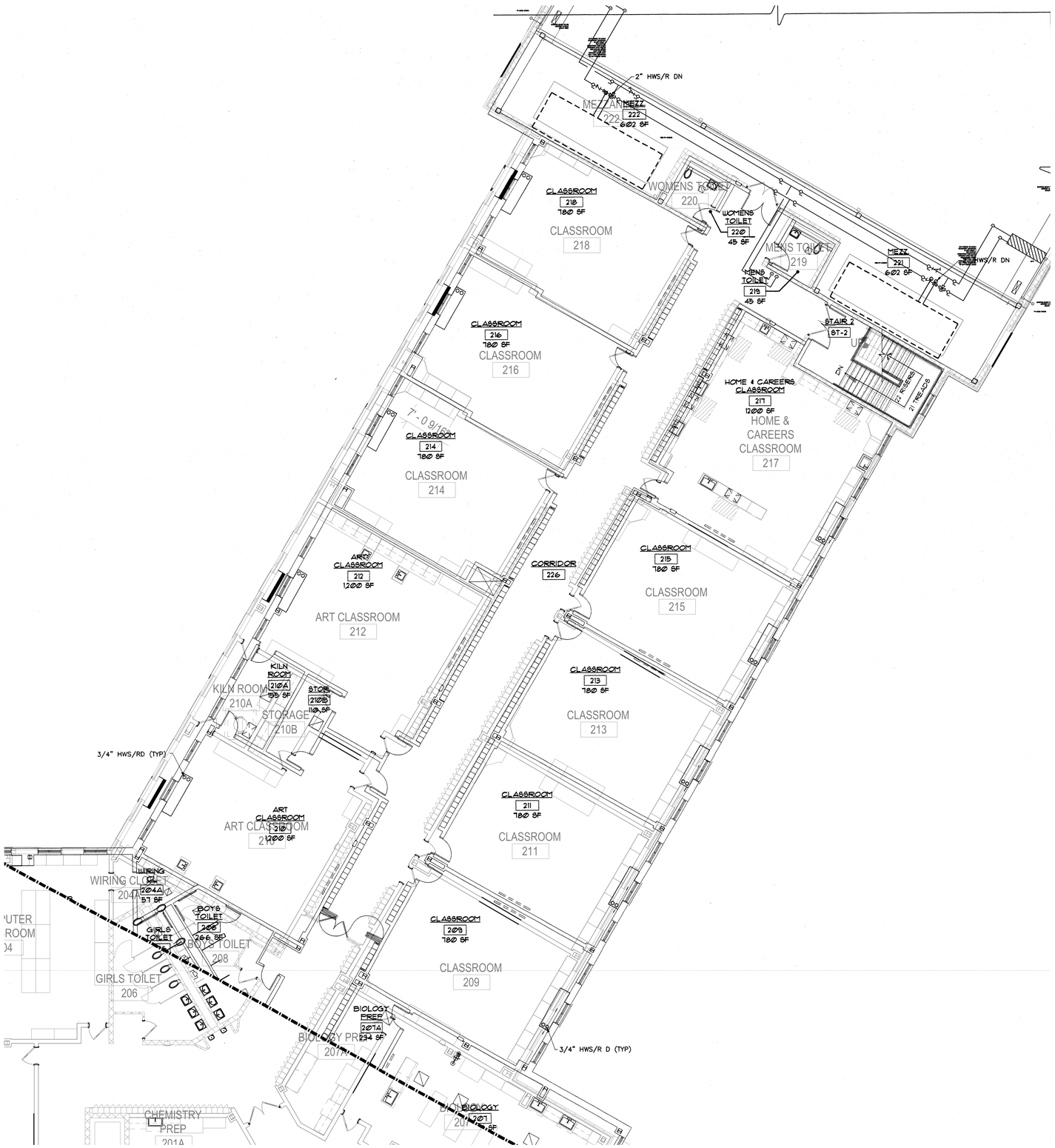
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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "A"-2ND FLR. EXIST. MECH & DUCTWK. PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-2738

M3.06 B



SECOND FLOOR -HIGH SCHOOL- AREA "B" - FIRST FLOOR - EXISTING EQUIPMENT AND PIPING- PARTIAL PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/8" = 1'-0"

SECOND FLOOR - MILLBROOK HIGH SCHOOL - AREA "B" - EXISTING EQUIPMENT & PIPING - PARTIAL PLAN - NOTES:

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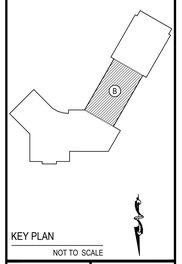
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
AREA "B"-SECOND FLOOR-EXISTING EQUIPMENT AND PIPING

DRAWING BY: U.F.
CHECK BY: U.F.

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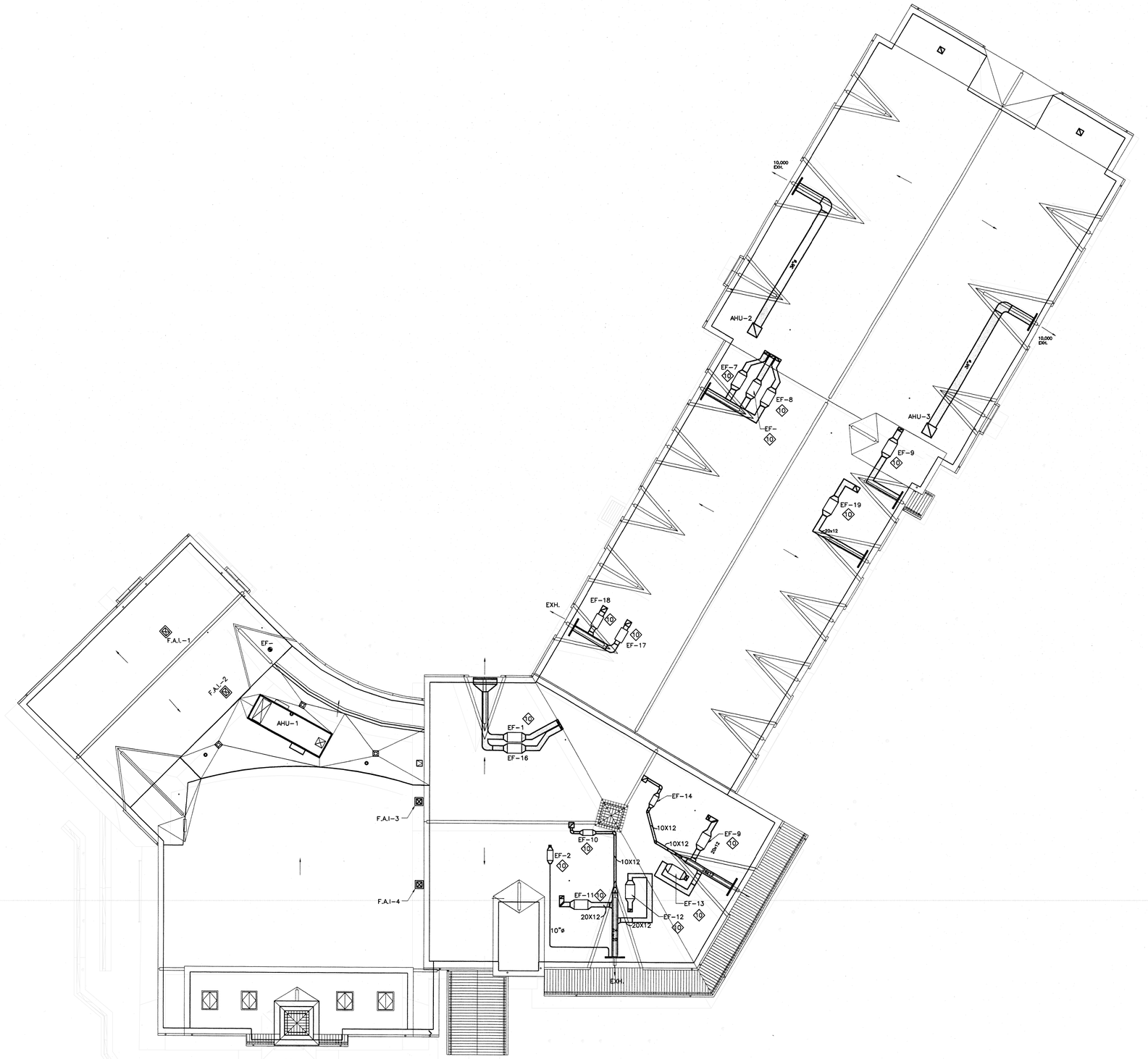
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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	AREA "B"-2ND FLR. EXIST. MECH & PIPING PLAN
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-273B

M3.07 B



ROOF/ATTIC LEVEL -HIGH SCHOOL- OVERALL - EXISTING EQUIPMENT AND DUCTWORK PLAN

MILLBROOK HIGH SCHOOL — SCALE: 1/16" = 1'-0"

ROOF/ATTIC LEVEL - MILLBROOK HIGH SCHOOL - OVERALL EQUIPMENT & DUCTWORK PLAN-NOTES:

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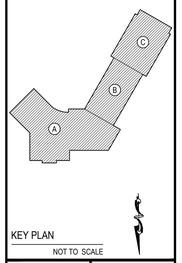
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   - 2.3. SENSORS IN DISCHARGE OF EXISTING EQUIPMENT OR SUPPLY DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.4. RETURN AIR SENSORS LOCATED IN EXISTING EQUIPMENT OR RETURN DUCTWORK & ASSOCIATED CONTROL/POWER WIRING
   - 2.5. EXISTING 2-WAY CONTROL VALVES, ACTUATORS & ASSOCIATED CONTROL/POWER WIRING
   - 2.6. EXISTING 3-WAY CONTROL VALVES, ACTUATORS, & ASSOCIATED CONTROL/POWER WIRING
   - 2.7. EXISTING OUTSIDE AIR DAMPER, DAMPER ACTUATOR, & ASSOCIATED CONTROL/POWER WIRING
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REV.	DATE	ITEM

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KEY PLAN

NOT TO SCALE

PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

DWG TITLE: MECHANICAL
ROOF/ATTIC LEVEL OVERALL EQUIPMENT AND DUCTWORK

DRAWING BY: U.F.
CHECK BY: U.F.

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SED No. 13-22-01-04-0-031-005

DISTRICT: MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT: CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE: ROOF/ATTIC LEVEL OVERALL EQUIPMENT & DUCTWORK PLAN

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273B

M3.08 B

EXISTING TRANE AHU-2 UNIT PERFORMANCE

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Trane Performance Climate Changer Air Handler

Unit Overview - Existing AHU-

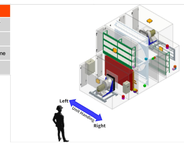
Application	Unit Size	External Dimensions			Weight	
		Height	Width	Length	Installed	Rigging
Indoor unit	CSAA030	123.3 in	93.5 in	189.026 in	6930 lb	6891 lb

Quantity of Shipping Sections	Largest Ship Split			Heaviest Ship Split	Elevation
	Height	Width	Length		
5 piece(s)	61.5 in	93.5 in	72.4 in	2363 lb	0.00 ft

Supply Fan				Return/Exhaust Fan	
Airflow	12000 cfm	Total Static Pressure	3.563 in H2O	Airflow	10000 cfm	Total Static Pressure	1.930 in H2O

Construction Features

Panel	2in. foam injected R-13 with thermal break
Panel Material	All unit inner panels - galvanized
Integral Base Frame	2.5in. integral base frame
Agency Approval	UL listed unit



Unit Electrical

Circuit	Voltage/Phase/Frequency	FLA	MCA	Max Fuse Size	SCCR
Circuit number 1 Supply fan + controls-LL	460/3/60	21.65 A	26.90	45.00	5 kA
Circuit number 2 Exhaust fan motor(s)	460/3/60	8.20 A	10.25	15.00	5 kA
Circuit number 3 Energy wheel	460/3/60	1.52 A	1.85	15.00	5 kA

Unit Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	84 dB	83 dB	89 dB	85 dB	85 dB	94 dB	94 dB	80 dB
Return:	77 dB	77 dB	86 dB	76 dB	77 dB	83 dB	78 dB	64 dB
Exhaust:	77 dB	79 dB	82 dB	81 dB	82 dB	87 dB	84 dB	72 dB
Casing:	84 dB	83 dB	87 dB	81 dB	82 dB	65 dB	61 dB	58 dB

Unit Controls

Factory Controls Package:	Variable volume
Controller Type:	Symbio
Controller mounting:	Unit mounted
Controller location:	Right
Factory programmed:	Yes

Warranty

Warranty section:	Std. warranty only

Energy Savings

Summer		Winter	
Sensible	Latent	Total	Sensible
107.32 MBh	121.57 MBh	228.89 MBh	364.58 MBh

Economizing			
Supply Airflow	Supply Side Pressure Drop	Exhaust Airflow	Exhaust Side Pressure Drop
12000 cfm	0.41 in H2O	10000 cfm	0.32 in H2O

Quantity of Shipping Sections	Largest Ship Split			Heaviest Ship Split	Elevation
	Height	Width	Length		
5 piece(s)	61.5 in	93.5 in	72.4 in	2363 lb	0.00 ft

Return/Exhaust Air Filter								
Type	Frame	MERV Rating	Airflow	Face Area	Face Velocity	Condition	Pressure Drop	Quantity	Size
			12000 cfm						

Energy Wheel Section Options	
Door Location	Left
AHRI 1060 Classification - Summer	
AHRI 1060 Classification	AHRI ERV Certified
Data Generation Date	3/20/2026
Trane Select Assist update number	26030

Note: Purge is Not Included.

Note: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org

AHRI 1060 Classification - Winter	
AHRI 1060 Classification	Application Rating, Outside Scope
Data Generation Date	3/20/2026
Trane Select Assist update number	26030

Heating coil section - Position: 6

Coil Construction		Coil Performance	
Model	Hot water - 5/8" Shipping Coil, General (SW)	Capacity	
Rows	1	Total	366.41 MBh
Tube Diameter	5/8in. tube diameter (15.875 mm)	Air	
Coil Connection	Standard	Flow	12000 cfm
Tube Mat/Wall Thickness	.020" (0.508 mm) copper tubes	Entering Dry Bulb	61.85 F
Fin Spacing	80 Per Foot	Leaving Dry Bulb	90.00 F
Fin Material	Aluminum fins	Pressure Drop	0.052 in H2O
Fin Type	Prima fin H (Hi efficient)	Face Velocity	418 ft/min
Face Area	28.69 sq ft	Fluid	
Coil (top/single) H x L	51 in. (1295 mm) X 81" (2057 mm) finned length	Flow	36.59 gpm
Casing	Galvanized	Entering	180.00 F
Turbulators	Not Included	Leaving	160.00 F
Rigging Weight	112.8 lb	Pressure Drop	2.79 ft fluid
Installed Weight	151.0 lb	Tube Velocity	2.38 ft/s
Coil Section Options		Reynolds Number	31074.87
Drain Pan Size	Small	Type	Water
Door Location	Left	Fouling Factor	0.00050 hr-sq ft-deg F/Btu
		Volume	4.59 gal
		AHRI 410 Classification	
		AHRI 410 Classification	AHRI ACHC Certified
		Data Generation Date	3/20/2026
		Trane Select Assist update number	26030

Note: Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Exhaust fan section - Position: 1

Fan Data		Motor Data	
Wheel Diameter/Type/Class	27in. dd plenum, full width, H press	Power / Fan	5 hp
Fan Quantity	1	Voltage	460/3
Discharge Location	Top back	Speed	1200
Motor Location	Left side drive	Class	NEMA premium compliant ODP
Blades	Higher eff (some bands lower,more spike)	Efficiency	89.73 %
Drive Service Factor	Direct drive	Part Load Efficiency	86.45 %
Fan K-factor	4156.00	Fan electrical power (FEP)	4.15 kW
FEI	1.32	Wire to air static efficiency	54.57 %
Fan Performance		Note: Certified airflow performance per AHRI 430	
Airflow	10000 cfm	Fan Section Options	
Total Static Pressure	1.930 in H2O	Fan Wheel Balance	Inverter balance with shaft grounding
Total Brake Power	4.735 hp	Door Location	Left
Operating Speed	1241 rpm	Door Guard	Yes
AMCA FEG	FEG85		
Bare fan peak total efficiency	76.70 %		
Unit Static Efficiency	64.25 %		
Motor Interface Options			
Selection Type	VFD		
Voltage	460/3		
Mounting Location	Internal mounting		
VFD Frequency	63.00 Hz		

Fan Discharge Options							
Face	Type	Airflow	Face Velocity	Area	Pressure Drop	Exhaust Hood	Damper Torque Requirement
Top Face Feature	Sizeable rectangular opening	10000 cfm	980 ft/min	10.21 sq ft	0.120 in H2O	N/A	N/A

Note: Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Exhaust fan Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Return:	72 dB	75 dB	82 dB	72 dB	74 dB	78 dB	71 dB	59 dB
Exhaust:	77 dB	79 dB	82 dB	81 dB	82 dB	87 dB	84 dB	72 dB
Casing:	75 dB	79 dB	84 dB	76 dB	77 dB	60 dB	51 dB	51 dB

Acoustic footnote 1: Sound Power Levels are in accordance with AHRI 260.

Pressure Drop in (in w.g.)

Exhaust fan	
Filter section	0.54
Wheel	0.77
Fan section	0.12
Internal Static Pressure	**1.43**
External Static Pressure	**0.50**
Total Static Pressure	**1.93**

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Filter section - Position: 2

Primary Filter								
Type	Frame	Loading	Airflow	Face Area	Face Velocity	Condition	Pressure Drop	Filter Quantity	Filter Size
Pleated media - MERV 8	2in. filter frame	Side load filters	12000 cfm	56.67 sq ft	212 ft/min	Mid-life	0.543 in H2O	18.00 6.00	16x20 16x25

Filter Section Options	
Door Location	Left

Air mixing section - Position: 3

Openings						
Face	Path	Type	Airflow	Face Velocity	Area	Pressure Drop	Hood
Back	Return	Parallel blade damper	6388 cfm	531 ft/min	12.04 sq ft	0.022 in H2O	N/A

Filter				
Type	Frame	MERV Rating	Quantity	Size
Pleated media - MERV 8	4"	MERV 8	18.00 6.00	16in.x20in. 16in.x25in.
Pressure Drop	Condition	Face Velocity	Airflow	Area
0.500	Mid-life	113 ft/min	6388 cfm	56.67 sq ft

Section Options	
Door Location	Left

Starter/VFD only section - Position: 4

Return/Exhaust Fan Motor Interface Door:	Left

Mixed air Energy wheel - Position: 5

Wheel	
Size	10500
Efficiency	High
Model Number	Wheel 10500 Poly H
Wheel Material	Polymer wheel
Purge	No
Motor	
Voltage	460/3
Interface Options	Starter
Damper	
Exhaust Air Bypass	Yes
Outside Air Bypass	Yes
Recirculation	Yes

Design Airflow			
Ventilation	Exhaust	Return	Supply
6000 cfm	6000 cfm	12000 cfm	12000 cfm

Pressure Drop @ Design Airflow						
Supply Side	Exhaust Side	Recirculation Damper	SA to RA Pressure Diff	OACF Ratio	OATR Flow	EATR	EATR Flow
0.77 in H2O	0.77 in H2O	0.59 in H2O	1.500 in H2O	1.02	388 cfm	3.8 %	237 cfm

Summer Conditions							
Outside Air		Return Air		Supply Air		Exhaust Air	
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
95.00 F	77.00 F	75.00 F	64.00 F	77.10 F	65.71 F	90.68 F	74.36 F
Effectiveness						Enthalpy Recovery Ratio	
Latent		Sensible		Total		Latent	
74.0 %		78.2 %		75.9 %		0.77	

Winter Conditions							
Outside Air		Return Air		Supply Air		Exhaust Air	
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
0.00 F	-2.00 F	70.00 F	53.00 F	61.85 F	48.27 F	14.52 F	13.58 F
Effectiveness						Enthalpy Recovery Ratio	
Latent		Sensible		Total		Sensible	
74.4 %		78.9 %		77.9 %		0.76	

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Supply fan section - Position: 7

Fan Data		Motor Data	
Wheel Diameter/Type/Class	27in. dd plenum, full width, H press	Power / Fan	15 hp
Fan Quantity	1	Voltage	460/3
Discharge Location	Front top	Speed	1200
Motor Location	Left side drive	Class	NEMA premium compliant ODP
Blades	Higher eff (some bands lower,more spike)	Efficiency	89.59 %
Drive Service Factor	Direct drive	Part Load Efficiency	84.59 %
Fan K-factor	4156.00	Fan electrical power (FEP)	8.48 kW
FEI	1.29	Wire to air static efficiency	59.18 %
Fan Performance		Note: Certified airflow performance per AHRI 430	
Airflow	12000 cfm	Fan Section Options	
Total Static Pressure	3.563 in H2O	Fan Wheel Balance	Inverter balance with shaft grounding
Total Brake Power	10.042 hp	Door Location	Left
Operating Speed	1569 rpm	Door Guard	Yes
AMCA FEG	FEG85		
Bare fan peak total efficiency	76.70 %		
Unit Static Efficiency	67.13 %		
Motor Interface Options			
Selection Type	VFD		
Voltage	460/3		
Mounting Location	External mounting		
VFD Frequency	80.00 Hz		

Fan Discharge Options							
Face	Type	Airflow	Face Velocity	Area	Pressure Drop	Exhaust Hood	Damper Torque Requirement
Front Face Feature	Sizeable rectangular opening	12000 cfm	1176 ft/min	10.21 sq ft	0.215 in H2O	N/A	N/A

Note: Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Supply fan Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	84 dB	83 dB	89 dB	85 dB	85 dB	94 dB	94 dB	80 dB
Return:	75 dB	73 dB	84 dB	73 dB	74 dB	82 dB	77 dB	63 dB
Casing:	83 dB	81 dB	83 dB	80 dB	81 dB	64 dB	60 dB	57 dB

Acoustic footnote 1: Sound Power Levels are in accordance with AHRI 260.

Pressure Drop in (in w.g.)

Supply fan	
Air mixing section	0.52
Wheel	0.77
Coil section	0.05
Fan section	0.22
Internal Static Pressure	**1.56**
External Static Pressure	**2.00**
Total Static Pressure	**3.56**

EXISTING TRANE AHU-3 UNIT PERFORMANCE

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Trane Performance Climate Changer Air Handler

Unit Overview - Existing AHU-

Application	Unit Size	External Dimensions			Weight	
		Height	Width	Length	Installed	Rigging
Indoor unit	CSAA030	123.3 in	93.5 in	189.026 in	6930 lb	6891 lb

Quantity of Shipping Sections	Largest Ship Split			Heaviest Ship Split	Elevation
	Height	Width	Length		
5 piece(s)	61.5 in	93.5 in	72.4 in	2363 lb	0.00 ft

Supply Fan				Return/Exhaust Fan	
Airflow	12000 cfm	Total Static Pressure	3.563 in H2O	Airflow	10000 cfm	Total Static Pressure	1.930 in H2O

Construction Features

Panel	2in. foam injected R-13 with thermal break
Panel Material	All unit inner panels - galvanized
Integral Base Frame	2.5in. integral base frame
Agency Approval	UL listed unit



Unit Electrical

Circuit	Voltage/Phase/Frequency	FLA	MCA	Max Fuse Size	SCCR
Circuit number 1 Supply fan + controls-LL	460/3/60	21.65 A	26.90	45.00	5 kA
Circuit number 2 Exhaust fan motor(s)	460/3/60	8.20 A	10.25	15.00	5 kA
Circuit number 3 Energy wheel	460/3/60	1.52 A	1.85	15.00	5 kA

Unit Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	84 dB	83 dB	89 dB	85 dB	85 dB	94 dB	94 dB	80 dB
Return:	77 dB	77 dB	86 dB	76 dB	77 dB	83 dB	78 dB	64 dB
Exhaust:	77 dB	79 dB	82 dB	81 dB	82 dB	87 dB	84 dB	72 dB
Casing:	84 dB	83 dB	87 dB	81 dB	82 dB	65 dB	61 dB	58 dB

Unit Controls

Factory Controls Package:	Variable volume
Controller Type:	Symbio
Controller mounting:	Unit mounted
Controller location:	Left
Factory programmed:	Yes

Warranty

Warranty section:	Std. warranty only

Energy Savings

Summer		Winter	
Sensible	Latent	Total	Sensible
107.32 MBh	121.57 MBh	228.89 MBh	364.59 MBh

Economizing			
Supply Airflow	Supply Side Pressure Drop	Exhaust Airflow	Exhaust Side Pressure Drop
12000 cfm	0.41 in H2O	10000 cfm	0.32 in H2O

Return/Exhaust Air Filter								
Type	Frame	MERV Rating	Airflow	Face Area	Face Velocity	Condition	Pressure Drop	Quantity	Size
			12000 cfm						

Energy Wheel Section Options	
Door Location	Right
AHRI 1060 Classification - Summer	
AHRI 1060 Classification	AHRI ERV Certified
Data Generation Date	3/20/2026
Trane Select Assist update number	26030

Note: Purge is Not Included.

Note: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org

AHRI 1060 Classification - Winter	
AHRI 1060 Classification	Application Rating, Outside Scope
Data Generation Date	3/20/2026
Trane Select Assist update number	26030

Heating coil section - Position: 6

Coil Construction		Coil Performance	
Model	Hot water - 5/8" Shipping Coil, General (SW)	Capacity	
Rows	1	Total	366.41 MBh
Tube Diameter	5/8in. tube diameter (15.875 mm)	Air	
Coil Connection	Standard	Flow	12000 cfm
Tube Mat/Wall Thickness	.020" (0.508 mm) copper tubes	Entering Dry Bulb	61.85 F
Fin Spacing	80 Per Foot	Leaving Dry Bulb	90.00 F
Fin Material	Aluminum fins	Pressure Drop	0.052 in H2O
Fin Type	Prima fin H (Hi efficient)	Face Velocity	418 ft/min
Face Area	28.69 sq ft	Fluid	
Coil (top/single) H x L	51 in. (1295 mm) X 81" (2057 mm) finned length	Flow	36.59 gpm
Casing	Galvanized	Entering	180.00 F
Turbulators	Not Included	Leaving	160.00 F
Rigging Weight	112.8 lb	Pressure Drop	2.79 ft fluid
Installed Weight	151.0 lb	Tube Velocity	2.38 ft/s
Coil Section Options		Reynolds Number	31074.87
Drain Pan Size	Small	Type	Water
Door Location	Left	Fouling Factor	0.00050 hr-sq ft-deg F/Btu
		Volume	4.59 gal
		AHRI 410 Classification	
		AHRI 410 Classification	AHRI ACHC Certified
		Data Generation Date	3/20/2026
		Trane Select Assist update number	26030

Note: Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Exhaust fan section - Position: 1

Fan Data		Motor Data	
Wheel Diameter/Type/Class	27in. dd plenum, full width, H press	Power / Fan	5 hp
Fan Quantity	1	Voltage	460/3
Discharge Location	Top back	Speed	1200
Motor Location	Right side drive	Class	NEMA premium compliant ODP
Blades	Higher eff (some bands lower,more spike)	Efficiency	89.73 %
Drive Service Factor	Direct drive	Part Load Efficiency	86.45 %
Fan K-factor	4156.00	Fan electrical power (FEP)	4.15 kW
FEI	1.32	Wire to air static efficiency	54.57 %
Fan Performance		Note: Certified airflow performance per AHRI 430	
Airflow	10000 cfm	Fan Section Options	
Total Static Pressure	1.930 in H2O	Fan Wheel Balance	Inverter balance with shaft grounding
Total Brake Power	4.735 hp	Door Location	Right
Operating Speed	1241 rpm	Door Guard	Yes
AMCA FEG	FEG85		
Bare fan peak total efficiency	76.70 %		
Unit Static Efficiency	64.25 %		
Motor Interface Options			
Selection Type	VFD		
Voltage	460/3		
Mounting Location	Internal mounting		
VFD Frequency	63.00 Hz		

Fan Discharge Options							
Face	Type	Airflow	Face Velocity	Area	Pressure Drop	Exhaust Hood	Damper Torque Requirement
Top Face Feature	Sizeable rectangular opening	10000 cfm	980 ft/min	10.21 sq ft	0.120 in H2O	N/A	N/A

Note: Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Exhaust fan Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Return:	71 dB	74 dB	82 dB	71 dB	74 dB	78 dB	71 dB	59 dB
Exhaust:	77 dB	79 dB	82 dB	81 dB	82 dB	87 dB	84 dB	72 dB
Casing:	75 dB	79 dB	84 dB	76 dB	77 dB	60 dB	51 dB	51 dB

Acoustic footnote 1: Sound Power Levels are in accordance with AHRI 260.

Pressure Drop in (in w.g.)

Exhaust fan	
Filter section	0.54
Wheel	0.77
Fan section	0.12
Internal Static Pressure	**1.43**
External Static Pressure	**0.50**
Total Static Pressure	**1.93**

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Filter section - Position: 2

Primary Filter								
Type	Frame	Loading	Airflow	Face Area	Face Velocity	Condition	Pressure Drop	Filter Quantity	Filter Size
Pleated media - MERV 8	2in. filter frame	Side load filters	12000 cfm	56.67 sq ft	212 ft/min	Mid-life	0.543 in H2O	18.00 6.00	16x20 16x25

Filter Section Options	
Door Location	Right

Air mixing section - Position: 3

Openings						
Face	Path	Type	Airflow	Face Velocity	Area	Pressure Drop	Hood
Back	Return	Parallel blade damper	6387 cfm	530 ft/min	12.04 sq ft	0.022 in H2O	N/A

Filter				
Type	Frame	MERV Rating	Quantity	Size
Pleated media - MERV 8	4"	MERV 8	18.00 6.00	16in.x20in. 16in.x25in.
Pressure Drop	Condition	Face Velocity	Airflow	Area
0.500	Mid-life	113 ft/min	6387 cfm	56.67 sq ft

Section Options	
Door Location	Right

Starter/VFD only section - Position: 4

Return/Exhaust Fan Motor Interface Door:	Right

Mixed air Energy wheel - Position: 5

Wheel	
Size	10500
Efficiency	High
Model Number	Wheel 10500 Poly H
Wheel Material	Polymer wheel
Purge	No
Motor	
Voltage	460/3
Interface Options	Starter
Damper	
Exhaust Air Bypass	Yes
Outside Air Bypass	Yes
Recirculation	Yes

Design Airflow			
Ventilation	Exhaust	Return	Supply
6000 cfm	6000 cfm	12000 cfm	12000 cfm

Pressure Drop @ Design Airflow						
Supply Side	Exhaust Side	Recirculation Damper	SA to RA Pressure Diff	OACF Ratio	OATR Flow	EATR	EATR Flow
0.77 in H2O	0.77 in H2O	0.59 in H2O	1.500 in H2O	1.02	387 cfm	3.8 %	238 cfm

Summer Conditions							
Outside Air		Return Air		Supply Air		Exhaust Air	
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
95.00 F	77.00 F	75.00 F	64.00 F	77.10 F	65.71 F	90.68 F	74.36 F
Effectiveness						Enthalpy Recovery Ratio	
Latent		Sensible		Total		Latent	
74.0 %		78.2 %		75.9 %		0.77	

Winter Conditions							
Outside Air		Return Air		Supply Air		Exhaust Air	
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb
0.00 F	-2.00 F	70.00 F	53.00 F	61.85 F	48.27 F	14.52 F	13.58 F
Effectiveness						Enthalpy Recovery Ratio	
Latent		Sensible		Total		Sensible	
74.4 %		78.9 %		77.9 %		0.76	

Job Name: Millbrook CSD High School

CSAA
Quantity: 1
Tags: Existing AHU-

Supply fan section - Position: 7

Fan Data		Motor Data	
Wheel Diameter/Type/Class	27in. dd plenum, full width, H press	Power / Fan	15 hp
Fan Quantity	1	Voltage	460/3
Discharge Location	Front top	Speed	1200
Motor Location	Left side drive	Class	NEMA premium compliant ODP
Blades	Higher eff (some bands lower,more spike)	Efficiency	89.59 %
Drive Service Factor	Direct drive	Part Load Efficiency	84.59 %
Fan K-factor	4156.00	Fan electrical power (FEP)	8.48 kW
FEI	1.29	Wire to air static efficiency	59.18 %
Fan Performance		Note: Certified airflow performance per AHRI 430	
Airflow	12000 cfm	Fan Section Options	
Total Static Pressure	3.563 in H2O	Fan Wheel Balance	Inverter balance with shaft grounding
Total Brake Power	10.042 hp	Door Location	Right
Operating Speed	1569 rpm	Door Guard	Yes
AMCA FEG	FEG85		
Bare fan peak total efficiency	76.70 %		
Unit Static Efficiency	67.13 %		
Motor Interface Options			
Selection Type	VFD		
Voltage	460/3		
Mounting Location	External mounting		
VFD Frequency	80.00 Hz		

Fan Discharge Options							
Face	Type	Airflow	Face Velocity	Area	Pressure Drop	Exhaust Hood	Damper Torque Requirement
Front Face Feature	Sizeable rectangular opening	12000 cfm	1176 ft/min	10.21 sq ft	0.215 in H2O	N/A	N/A

Note: Certified by the AHRI Central Station Air-Handling Unit (AHU) Certification Program, based on AHRI Standard 430/431. AHRI certified units are subject to rigorous and continuous testing, have performance ratings independently measured and are third party verified. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Supply fan Acoustics

Sound Path	63 (Hz)	125	250	500	1K	2K	4K	8K
Supply front:	84 dB	83 dB	89 dB	85 dB	85 dB	94 dB	94 dB	80 dB
Return:	75 dB	73 dB	84 dB	73 dB	74 dB	82 dB	77 dB	63 dB
Casing:	83 dB	81 dB	83 dB	80 dB	81 dB	64 dB	60 dB	57 dB

Acoustic footnote 1: Sound Power Levels are in accordance with AHRI 260.

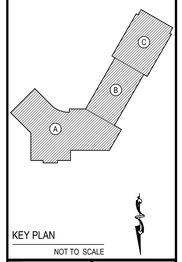
Pressure Drop in (in w.g.)

Supply fan	
Air mixing section	0.52
Wheel	0.77
Coil section	0.05
Fan section	0.22
Internal Static Pressure	**1.56**
External Static Pressure	**2.00**
Total Static Pressure	**3.56**

REV.	DATE	ITEM

NOTICE

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KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUCHESS COUNTY

MECHANICAL
MECHANICAL SCHEDULES

PROJECT

DWG TITLE

DRAWING BY: U.F.

CHECK BY: U.F.

NOTICE

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SED No.	13-22-01-04-0-031-005
DISTRICT	MILLBROOK CENTRAL SCHOOL DISTRICT
PROJECT	CAPITAL IMPROVEMENT BOND PHASE - 1B
DWG TITLE	MECHANICAL SCHEDULES
SCALE:	AS NOTED
DATE:	OCTOBER 22, 2026
BID PICK-UP:	OCTOBER 26, 2026
FILE No:	25-2738

M6.01 B

NEW CHILLED WATER DUCT COILS (CHWC-AHU-2 & CHWC-AHU-3) (BASIS: TRANE) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

TRANE

888-921-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

SUBMITTAL DATA

Millbrook CSD EPC
USA

Chilled Water Thermicoils

Tag	Qty	Model	Footnotes	Comment
CHWC-AHU-2	1	CW56S08F09-48x72-RH	a,b	
CHWC-AHU-3	1	CW58S08F09-48x72-RH	a,b	

Construction and Performance Details

Tag	CHWC-AHU-2	CHWC-AHU-3
Air flow (SCFM)	12000	12000
Altitude (ft)	0	0
Total capacity (MBH)	403.2	403.2
Sensible capacity (MBH)	293.4	293.4
Entering dry bulb (°F)	77.1	77.1
Entering wet bulb (°F)	65.7	65.7
Leaving dry bulb (°F)	54.8	54.8
Leaving wet bulb (°F)	54.8	54.8
Face velocity (ft/min)	500	500
Air pressure drop (in of water)	1.12	1.12
Air fouling factor (h·ft²·°F/Btu)	0.00000	0.00000
Fluid	35% PG	35% PG
Entering fluid temp. (°F)	44.0	44.0
Leaving fluid temp. (°F)	56.0	56.0
Fluid flow rate (GPM)	72.3	72.3
Fluid velocity (ft/s)	2.47	2.47
Fluid pressure drop (ft of water)	17.9	17.9
Fluid fouling factor (h·ft²·°F/Btu)	0.00000	0.00000
Fluid freezing temp. (°F)	1.6	1.6
Min. tube wall temp. (°F)	50.8	50.8
Min. fin surface temp. (°F)	52.2	52.2
Coils per bank	1	1
Coil type	5/8	5/8
Fin height (in)	48.0	48.0
Fin length (in)	72.0	72.0
Face area (ft²)	24.00	24.00
Rows	8	8
Fin spacing (fins/in)	9	9
Fin material	Al	Al
Fin type	Sine	Sine
Fin thickness (in)	0.006	0.006
Tube wall thickness (in)	0.020	0.020
Turbulators	Yes	Yes
Number of feeds	32	32
Supply conn. size (in)	2.500	2.500
Return conn. size (in)	2.500	2.500
C (in)	5.8	5.8
L / MAX (in)	3.5 / 2.25	3.5 / 2.25
Weight (lb)	855	855
Est. operating wt. (lb)	1079	1079

R8.9 (Build 209489) - 2447 Wednesday, March 25, 2026

TRANE

888-921-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

SUBMITTAL DATA

Millbrook CSD EPC
USA

Construction and Performance Details(cont.)

Tag	CHWC-AHU-2	CHWC-AHU-3
Est. internal volume (ft³)	3.61	3.61

Footnotes

(a) Coil is NOT certified by AHRI.
(b) Tube OD 0.625, Tube spacing 1.500 x 1.299

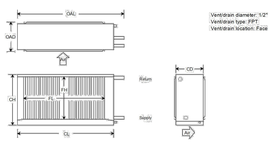
TRANE

888-921-COIL (2645)
200 Morgan Street
Brownsville, TN 38012

SUBMITTAL DRAWINGS

Millbrook CSD EPC
USA

Drawings



*Dimensions**

Tag	CHWC-AHU-2	CHWC-AHU-3
Model	CW58S08F09-48x72-RH	CW58S08F09-48x72-RH
Weight	855	855
Fin material & type	0.006 Aluminum Sine-wave	0.006 Aluminum Sine-wave
Tube wall	0.02 / Smooth	0.02 / Smooth
Casing material	16 ga. stainless steel	16 ga. stainless steel
Intermediate drain pan	None	None
Coating	None	None
Turbulators	Yes	Yes
Header diameter	2.625	2.625
Supply / return conn. size	2.5 / 2.5	2.5 / 2.5
Connection type	MPT Copper	MPT Copper
Number of feeds	32 (Full)	32 (Full)
FH / FL	48 / 72	48 / 72
CH / CL	53.61 / 84.1	53.61 / 84.1
OAL / CD	85.66 / 19.59	85.66 / 19.59
OAD	22.59	22.59

* All distances are measured as inches.

R8.9 (Build 209489) - 2447 Wednesday, March 25, 2026

MC SHALL ADJUST EXISTING AHU-2 AND AHU-3 UNITS TO PROVIDE ADDITIONAL STATIC REQUIRED FOR NEW CHILLED WATER DUCT COILS. REFER TO M6.01 FOR PERFORMANCE INFORMATION ON EXISTING AHU-2 AND AHU-3 UNITS.

NEW AIR COOLED CHILLER (CH-1) SCHEDULE (BASIS: TRANE) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

TRANE Job Name: Millbrook CSD - EPC | Quantity: 1 | Prepared For: | Sales Office: Albany | Unit Tag: CH-1

Air-Cooled Scroll

General

Chiller Model	CGAM
Unit Nominal Tons	80 Nominal Tons
Voltage	208 Volt 3 Phases
Refrigerant	Refrigerant Charge R-454B
Number of Compressors	4
Agency Listing	ETL Listed to US/Canadian Safety Std



Chiller Performance

IPLV	17.83 EER (Btu/W-h)

Thermal Battery Performance

	Ice Build	Ice Melt
Cooling Capacity	57.83 tons	79.01 tons
Cooling Efficiency	10.49 EER (Btu/W-h)	11.18 EER (Btu/W-h)
NPLV	Not Applicable	16.33 EER (Btu/W-h)
Total Power	66.14 kW	84.83 kW
Ambient Air Temperature	76.0 F	92.0 F
Evaporator		
Leaving Temperature	23.00 F	44.00 F
Entering Temperature	29.95 F	52.50 F
Design Flow	215.0 gpm	239.0 gpm
Evaporator Head Loss	25.5 ft H2O	28.1 ft H2O
Evaporator Strainer Head Loss	4.95 ft H2O	5.38 ft H2O
VPF Min Flow	Not Applicable	2.02 ft H2O

Evaporator

Evaporator Application	Ice Making with Interface	**Fluid Properties**	
Fouling Factor	0.000100 hr·sq ft·deg F/ Btu	**Fluid Type**	Propylene glycol
Fluid Connection Size (Nominal)	4.000 in	**Fluid Concentration**	35.00 %
Flow Switch Set Point	Flow switch set point 15 cm/sec	**Fluid Freeze Point**	2.40 F
		Fluid Storage	7.00 gal

Condenser

Unit Application	High Ambient	**Elevation**	300.00 ft
Number of Fans	6		

TRANE Job Name: Millbrook CSD - EPC | Quantity: 1 | Prepared For: | Sales Office: Albany | Unit Tag: CH-1

Electrical

Compressor Starter	Across the line
Incoming Line Connection Type	CB High Fault with Energy Meter
Customer Wire Range (Per Phase)	2/0-500 MCM
FLA - Constant Speed Condenser Fan	6.70 A
2 Speed Condenser Fan	5.80 A
Short Circuit Rating	65000 A

	MCA	MOP
Single Point Power	357 A	450 A
Compressor	**RLA**	**LRA**
1A	73.90 A	485.00 A
1B	73.90 A	485.00 A
2A	73.90 A	485.00 A
2B	73.90 A	485.00 A

Additional Electrical

	Voltage	FLA/MOP
Evaporator Heater	115V/1 PH	20.00 A

Acoustics

Acoustic Note 1	Acoustic Note 2	Acoustic Note 3
Sound power data collected per AHRI 370 methodology.	Sound power referenced to 1 pW; sound pressure referenced to 20 µPa.	Sound pressure values are at 10 meters from broadside of unit.

Physical

Dimensions		Weights	
Length	146.200 in	**Operating Weight**	5692 lb
Width	88.400 in	**Shipping Weight**	5607 lb
Height	92.500 in		

Circuits	Refrigerant Charge	Oil Charge
Circuit 1	67.0 lb	3.90 gal
Circuit 2	67.0 lb	3.90 gal

Standard Rating Performance and LEED Rating

Rated Cooling Capacity	80.23 tons
Rated Cooling Efficiency	10.93 EER (Btu/W-h)
IPLV	17.83 EER (Btu/W-h)
Compressor Power	77.30 kW
Fan Motor Power	7.130 kW
Refrigerant Charge Circuit 1	67.0 lb
Refrigerant Charge Circuit 2	67.0 lb

ASHRAE 90.1 - 2019
This product meets the minimum efficiency requirements of ASHRAE Standard 90.1-2019 at AHRI Standard 550/590 (I-P) rating conditions with water0 and, therefore, also meets the LEED "Minimum Energy Performance" prerequisite in the Energy and Atmospheric section.
The LEED Green Building Rating System™, developed by the U.S. Green Building Council, is the nationally accepted benchmark for evaluation that a building project meets green building and performance measures.

Regulatory Compliance

AHRI Certification
Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org. Unit contains freeze protection liquids in the evaporator and is certified when rated per the Standard with water

AHRI CERTIFIED www.ahridirectory.org Air-Cooled Water-Chilling Packages AHRI Standards 550/590 and 551/591

Publication

Data Generation Date	7/27/2026
Trane Select Assist Version Number	2607

ADDITIONAL SCHEDULE NOTES:

1. MC SHALL HAVE APPROVED MANUFACTURER FOR EQUIPMENT VISIT JOB SITE TO CONDUCT FIELD SURVEY TO PERFORM MEASUREMENTS TO ENSURE THAT PROPOSED EQUIPMENT IN SUBMITTAL SHALL FIT & HAVE THE MANUFACTURER-REQUIRED SERVICE CLEARANCES WHERE IT IS TO BE INSTALLED.
2. PROVIDE STARTERS & DISCONNECTS FOR EQUIPMENT.
3. PROVIDE FACTORY-AUTHORIZED START-UP, COMMISSIONING, & TRAINING OF NEW EQUIPMENT TO OWNER'S DESIGNATED PERSONNEL.
4. PROVIDE BACNET CARD/INTERFACE FOR INTEGRATION INTO TRANE TRACER BMS SYSTEM.
5. PROVIDE VIBRATIONAL ISOLATORS FOR EQUIPMENT FROM APPROVED EQUIPMENT MANUFACTURER.
6. PROVIDE FLEXIBLE PIPING CONNECTIONS AT INLET & OUTLET OF EQUIPMENT.
7. PROVIDE COMPRESSOR SOUND BLANKETS FOR ALL COMPRESSORS.
8. REFER TO SCHEDULES FOR ADDITIONAL ACCESSORIES INFORMATION.

NEW AIR COOLED CHILLER (CH-2) SCHEDULE (BASIS: TRANE) (EQUIPMENT TO BE PURCHASED BY OWNER & GIVEN TO MC FOR MC TO INSTALL)

TRANE Job Name: Millbrook CSD - EPC | Quantity: 1 | Prepared For: | Sales Office: Albany | Unit Tag: CH-2

Air-Cooled Scroll

General

Chiller Model	CGAM
Unit Nominal Tons	80 Nominal Tons
Voltage	208 Volt 3 Phases
Refrigerant	Refrigerant Charge R-454B
Number of Compressors	4
Agency Listing	ETL Listed to US/Canadian Safety Std



Chiller Performance

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Flow Switch Set Point	Flow switch set point 15 cm/sec	**Fluid Freeze Point**	2.40 F
		Fluid Storage	7.00 gal

Condenser

Unit Application	High Ambient	**Elevation**	300.00 ft
Number of Fans	6		

TRANE Job Name: Millbrook CSD - EPC | Quantity: 1 | Prepared For: | Sales Office: Albany | Unit Tag: CH-2

Electrical

Compressor Starter	Across the line
Incoming Line Connection Type	CB High Fault with Energy Meter
Customer Wire Range (Per Phase)	2/0-500 MCM
FLA - Constant Speed Condenser Fan	6.70 A
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Short Circuit Rating	65000 A

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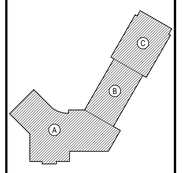
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REV.	DATE	ITEM

NOTICE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. 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 BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.



KEY PLAN

NOT TO SCALE

MILLBROOK CENTRAL SCHOOL DISTRICT
CAPITAL IMPROVEMENT BOND PHASE - 1B
MILLBROOK HIGH SCHOOL
MILLBROOK, NY / DUTCHESS COUNTY

MECHANICAL
MECHANICAL SCHEDULES

PROJECT

DWG TITLE

DRAWING BY: U.F.
CHECK BY: U.F.

NOTICE

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DISTRICT MILLBROOK CENTRAL SCHOOL DISTRICT

PROJECT CAPITAL IMPROVEMENT BOND PHASE - 1B

DWG TITLE MECHANICAL SCHEDULES

SCALE: AS NOTED
DATE: OCTOBER 22, 2026
BID PICK-UP: OCTOBER 26, 2026
FILE No: 25-273B

M6.02 B

ELECTRICAL CONSTRUCTION NOTES (NOT ALL APPLY):

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
2. THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PHASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS. , ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.
5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
7. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
8. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS. MOTORS, AND APPURTENANCES.
13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED WITH NEW FIXTURES.
20. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.
21. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
22. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
23. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.
25. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
26. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STORERooms, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC., LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
27. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
28. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
30. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
31. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER.
32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
35. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3-,4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.
36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
37. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
38. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.
42. DUCT SMOKE DETECTORS SHALL BE FURNISHED BY THE DIVISION 16 CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

NOTE:

1. THERE IS ADDITIONAL ELECTRICAL WORK INDICATED ON THE DRAWINGS OF OTHER TRADES. EC MUST REVIEW ALL DRAWINGS TO FULLY ASCERTAIN FULL SCOPE OF WORK.

DEMOLITION NOTES (NOT ALL APPLY):

1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.
2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
4. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
5. REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
6. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
7. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTIUNG CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.
8. THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
9. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S CONTRACT.
10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
11. ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT. BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
CB	CIRCUIT BREAKER
REC.	RECEPTACLE
ACT	ABOVE COUNTERTOP

ELECTRICAL SYMBOL LEGEND (NOT ALL APPLY)

	UNFUSED DISCONNECT SWITCH, SIZE PER PLAN

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

REV.	DATE	ITEM

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PROJECT: MILLBROOK CENTRAL SCHOOL DISTRICT
ENERGY PERFORMANCE WORK AT
MILBROOK HIGH SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

DWG TITLE: GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

DRAWING BY: EEA
CHECKED BY: EEA

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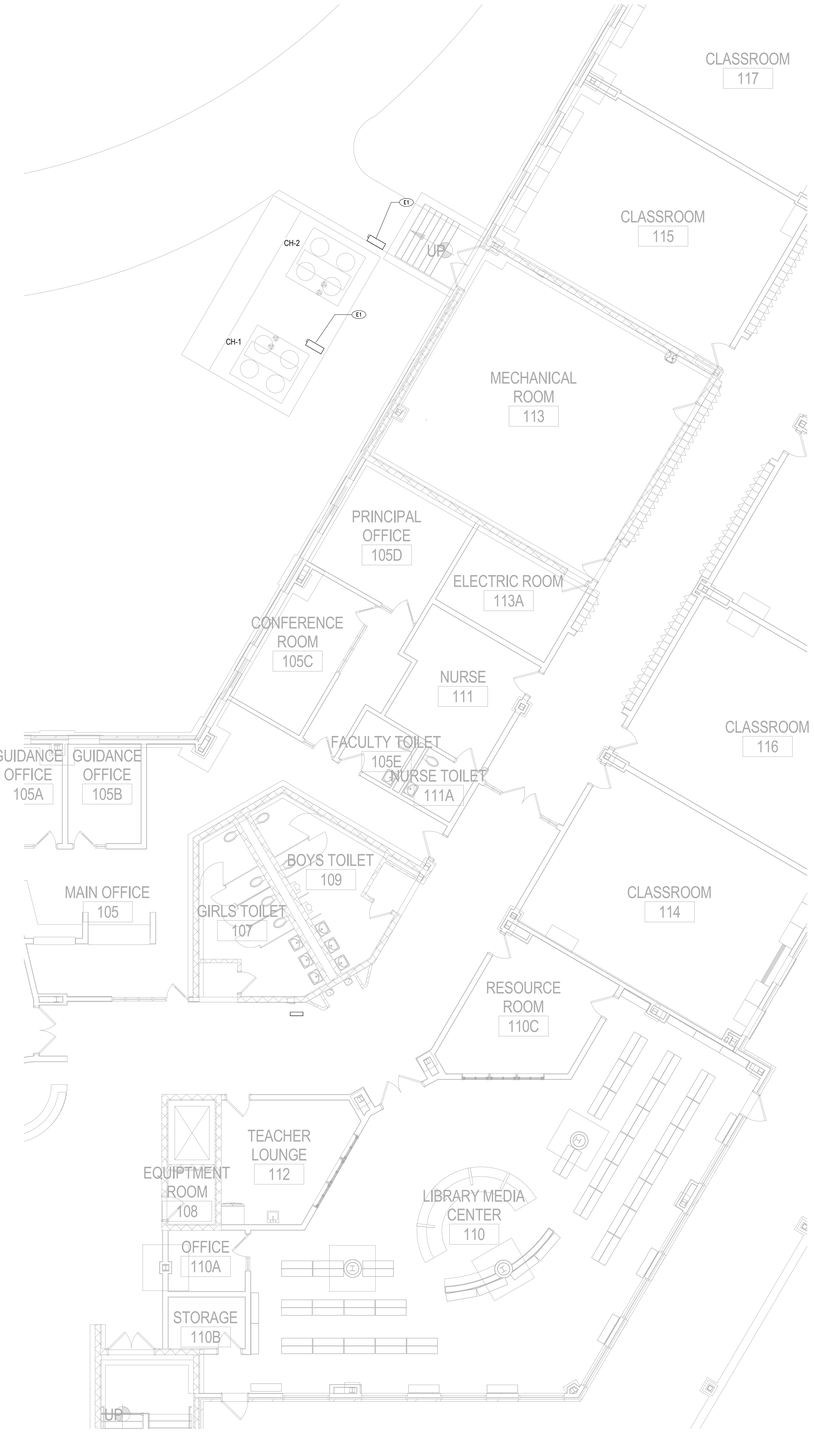
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PROJECT	ENERGY PERFORMANCE WORK AT MILBROOK HIGH SCHOOL
DWG TITLE	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
SCALE:	AS NOTED
DATE:	4/3/26
BID PICK UP:	10/26/2026
FILE No.	25-273b

E0.01 B



PARTIAL DEMLITION PLAN - AREA B



PARTIAL NEW WORK PLAN - AREA B

SHEET NOTES

A. REFER TO GENERAL DEMOLITION NOTES ON SHEET E0.01 FOR ADDITIONAL DEMOLITION NOTES.

B. ALL DEVICES SHOWN AS DASHED LINES ARE TO BE DEMOLISHED. REMOVE ASSOCIATED BRANCH CIRCUIT CONDUIT AND WIRING BACK TO NEAREST ACTIVE SOURCE.

C. ALL DEVICES SHOWN AS GREY/HALFTONED LINES ARE TO REMAIN UNDISTURBED. COORDINATE ALL DEMOLITION WORK AROUND THESE DEVICES. IF NECESSARY TO REMOVE OR RECIRCUIT DEVICES, TO ALLOW FOR ARCHITECTURAL OR MECHANICAL WORK, DEVICES SHALL BE REINSTALLED AND RECONNECTED.

D. REFER TO ELECTRICAL EQUIPMENT SCHEDULE ON E6.01 FOR MECHANICAL EQUIPMENT ELECTRICAL CHARACTERISTICS AND CIRCUITING INFORMATION.

KEY NOTES

E1	CONNECT PROPOSED EQUIPMENT TO EXISTING POWER CIRCUIT AND DISCONNECTING MEANS PREVIOUSLY CONNECTED TO POWER BRANCH CIRCUIT AND ASSOCIATED CONTROLS. EXTEND EXISTING CONDUIT AND WIRING AS NECESSARY MATCHING EXISTING SIZE(S) AND TYPE(S).
ED1	DE-ENERGIZE, DISCONNECT AND MAINTAIN MECHANICAL EQUIPMENT DISCONNECTING MEANS. DISCONNECT TO BE RE-USED WITH PROPOSED EQUIPMENT.

REV.	DATE	ITEM

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MILLBROOK CENTRAL SCHOOL DISTRICT
ENERGY PERFORMANCE WORK AT
MILBROOK HIGH SCHOOL
MILLBROOK, NY/ DUCHESS COUNTY

PROJECT

AREA B - ELECTRICAL PLAN - CHILLERS

DWG TITLE

DRAWING BY: EEA

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E1.01 B