

**KATONAH-LEWISBORO UFSD
HVAC UPGRADES AT INCREASE MILLER ES AND
MEADOW POND ES**

60 NORTH SALEM ROAD, CROSS RIVER, NY 10518

**HVAC UPGRADES AT
INCREASE MILLER ES AND
MEADOW POND ES**

KG+D Project No.
2023-1059

DESIGN TEAM

ISSUE FOR BID

NOVEMBER 22, 2023

INCREASE MILLER ES: 66-01-01-03-0-004-019
MEADOW POND ES: 66-01-01-03-0-007-018

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COVER
T1

ABBREVIATIONS			
ACM	ASBESTOS CONTAINING MATERIAL	GALV	GALVANIZED
ACP	ALUMINUM COMPOSITE PANEL	GBF	GROUND FACE BLOCK
ACPL	ACOUSTIC PANEL	GFRG	GLASS FIBER REINFORCED GYPSUM
ACT	ACOUSTIC CEILING TILE	GL	GLASS
ADJ	ADJUSTABLE	GWB	GYPSUM WALLBOARD
AC	AIR CONDITIONING		
AESS	ARCHITECTURAL EXPOSED STRUCT STEEL	H	HEIGHT AFF
AFF	ABOVE FINISH FLOOR	HDW, HDWE	HARDWARE
AHAP	AS HIGH AS POSSIBLE	HDWD	HARDWOOD
AL	ALUMINUM	HD	HEAD
AMP	ACRYLIC MODIFIED POLYESTER	HDR	HEADER
APPROX	APPROXIMATE	HVAC	HEATING, VENTILATING, AIR CONDITIONING
		HR	HOUR
		HT	HEIGHT
BEPO	BROADCAST EPOXY	HM	HOLLOW METAL
BTH	BETWEEN	HMF	HOLLOW METAL FRAME
BLKG	BLOCKING	HORIZ	HORIZONTAL
BOT, BOTT	BOTTOM	HC	HANDICAP
BLDG	BUILDING		
BL	BUILDING LINE		
BM	BEAM		
BR	BRICK		
CAB	CABINET	IF	INSIDE FACE
CB	CEMENT BOARD	IN	INCHES
CI	CAST IRON	INCL	INCLUDE/INCLUSIVE
CFMF	COLD FORMED METAL FRAMING	INFO	INFORMATION
CLG, CLNG	CEILING	INSUL	INSULATION
CL	CENTER LINE, CLASSROOM	INT	INTERIOR
CMU	CONCRETE MASONRY UNIT	JC	JANITOR'S CLOSET
COL	COLUMN	JT	JOINT
CONC	CONCRETE	KPL	KICK PLATE
CONF	CONFERENCE	KD	KNOCKDOWN
CONSTR	CONSTRUCTION	KO	KNOCKOUT
CONTR	CONTRACTOR	LAM	LAMINATED
CONT	CONTINUOUS	LAMGL	LAMINATED GLASS
COORD	COORDINATE	LGT	LIGHT
CPT	CARPET	LTG	LIGHTING
CR	CARD READER	LWC	LIGHT WEIGHT CONCRETE
CT	CERAMIC TILE	LN	LINOLEUM
CTB	CERAMIC TILE BASE	LMF	LIGHT METAL FRAMING
DA	DEVICE ARRANGEMENT	MAINT	MAINTENANCE
DET	DETAIL	MAX	MAXIMUM
DF	DRINKING FOUNTAIN	MBL	MARBLE
DIM	DIMENSION	MFG	MANUFACTURER
DR	DOOR	MSNRY	MASONRY
DN	DOWN	MO	MASONRY OPENING
DWG	DRAWING	MATL	MATERIAL
		MECH	MECHANICAL
		MT	MONITOR
EE	EACH END	MTL	METAL
EJ	EXTERIOR INSULATION FINISH SYSTEM	MCP	METAL COMPOSITE PANEL
ELEC	ELECTRICAL	MCB	METAL CORNER BEAD
ELELEV	ELEVATION	MS	METAL STUD
ENCL	ENCLOSURE	MLWK	MILL WORK
EOD	EDGE OF DECK	MIN	MINIMUM
EOS	EDGE OF SLAB	MISC	MISCELLANEOUS
EPO	EPOXY	MLDG	MOLDING
EPS	EDGE OF POUR STOP	MTG	MOUNTING
EQ	EQUAL		
ES	EACH SIDE	NIC	NOT IN CONTRACT
EXIST	EXISTING	NIS	NOT TO SCALE
ETR	EXISTING TO REMAIN	NO	NUMBER
ETRE	EXISTING TO BE RELOCATED		
EXP JT	EXPANSION JOINT	OC	ON CENTER
EXT, EXTR	EXTERIOR	OPNG	OPENING
EW	EACH WAY	OPP	OPPOSITE
		OH	OPPOSITE HAND
FAB	FABRIC	OTS	OPEN TO STRUCTURE
FTF	FACE TO FACE	OUT	OUTLET
FN	FINISHED	OD	OUTSIDE DIAMETER
FA	FIRE ALARM	OF	OUTSIDE FACE
FD	FLOOR DRAIN		
FDMPR	FIRE DAMPER	P, PTD	PAINTED
FE	FIRE EXTINGUISHER	PT	PORCELAIN TILE
FEC	FIRE EXTINGUISHER CABINET	PTB	PORCELAIN TILE BASE
FF	FACTORY FINISHED	PR	PAIR
FHC	FIRE HOSE CABINET	PNL	PANEL
FHV	FIRE HOSE VALVE CABINET	PTN	PARTITION
FR	FIRE RATED	PL	PLATE / PROPERTY LINE
FRD	FRENCH DRAIN	PLAM	PLASTIC LAMINATE
FRP	FIBERGLASS REINFORCED POLYESTER	PLMB	PLUMBING
FRTD	FIRE RETARDANT	PLW	PLYWOOD
FIX	FIXTURE	PTWD	PRESERVATIVE TREATED WOOD
FL	FLOOR		
FLUOR	FLUORESCENT		
FLMNTD	FLUSH MOUNTED		
FT	FOOT/FEET		
FDN	FOUNDATION		
FRITZ	FRITZ FLOOR (RTT) TILE		

UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS

THE OCCUPIED PORTION OF THE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.

ALL SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION HAVE BEEN OR WILL BE TESTED FOR LEAD AND ASBESTOS.

GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

- (A) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
- (B) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- (C) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- (D) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
- (E) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES:

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

- (A) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
- (B) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
- (C) ALL OCCUPIED PORTIONS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.

A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF VOLATILE" OR "ORGANIC COMPOUNDS" SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED". NOTE: IT IS OUR INTERPRETATION THAT THE TERM "BUILDING" AS REFERENCED IN THIS SECTION MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.

SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAD. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN THE SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENERAL ACCORDANCE WITH THE HUD GUIDELINES.

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATOR	SHEET TYPE DESIGNATOR	SEQUENCE NUMBER
DISCIPLINE DESIGNATORS	SHEET TYPE DESIGNATOR	
G GENERAL	G GENERAL	
CC CODE COMPLIANCE	1 DEMOLITION	
PH PHASING	2 PLANS	
HM HAZARDOUS MATERIAL	3 EXTERIOR ELEVATIONS & BUILDING SECTIONS	
AB ABATEMENT	4 ENLARGED PLANS & INTERIOR ELEVATIONS	
C CIVIL	5 FINISHES	
L LANDSCAPE	6 REFLECTED CEILING PLANS	
S STRUCTURAL	7 VERTICAL CIRCULATION	
A ARCHITECTURAL	8 WALL SECTIONS & ENLARGED DETAILS	
F FIRE PROTECTION	9 TYPICAL DETAILS	
P PLUMBING		
M MECHANICAL		
E ELECTRICAL		

SYMBOLS LEGEND

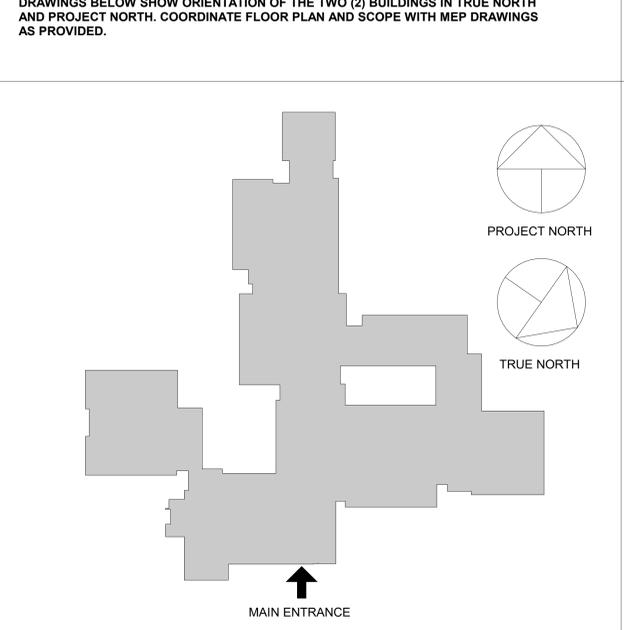
ROOM NAME	ROOM TAG (NAME, NUMBER, & AREA)	SYMBOL	DESCRIPTION
101 150 SF			DENOTES EXISTING AREA OF THE BUILDING TO REMAIN (NO MAJOR GENERAL CONSTRUCTION).
			DENOTES EXISTING WALL TO REMAIN
			WALL TYPE & FIRE RATING TAG
			WINDOW TYPE TAG
			DOOR DESIGNATION TAG
			CONTROL JOINT
			COLUMN LINE
			EXTERIOR ELEVATION
			INTERIOR ELEVATION
			WALL OR BUILDING SECTION
			WALL OR BUILDING SECTION

MATERIAL LEGEND

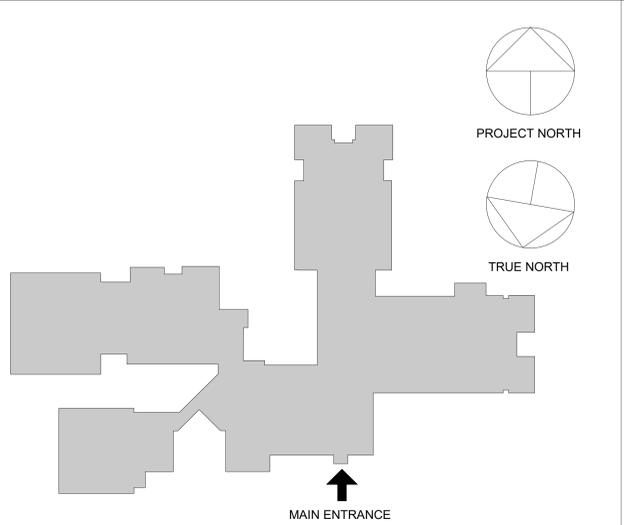
	CMU WALL		CAULK w/ BACKER ROD
	CMU WALL		WATERPROOFING MEMBRANE, OR ROOFING MEMBRANE OR FLASHING
	GWB WALL		RIGID INSULATION
	MASONRY VENEER		BATT INSULATION
	GWB - "TYPE X" UNO (SEE SPECS)		POROUS FILL
	EXPOSED TO WEATHER OR MOISTURE		SUITABLE COMPACTED BACKFILL (SEE SPEC)
	WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)		UNDISTURBED SOIL
			CAST-IN-PLACE CONCRETE OR CAST STONE
			GLASS SURFACE

PROJECT LOCATION

OVERALL PROJECT LOCATION:
DRAWINGS BELOW SHOW ORIENTATION OF THE TWO (2) BUILDINGS IN TRUE NORTH AND PROJECT NORTH. COORDINATE FLOOR PLAN AND SCOPE WITH MEP DRAWINGS AS PROVIDED.



2 INCREASE MILLER ELEMENTARY SCHOOL
1/64" = 1'-0"



1 MEADOW POND ELEMENTARY SCHOOL
1/64" = 1'-0"

INTERIOR CEILING REPAIR

CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY INTERIOR CEILING SYSTEMS (HARD CEILING, ACOUSTIC CEILING TILE, ETC.) DISTURBED DURING THE COURSE OF WORK. IN THE INSTANCES IN WHICH CEILING MUST BE REMOVED TO COMPLETE WORK, CONTRACTOR SHALL REPLACE AFFECTED CEILING AREA AND SHALL ENSURE A MATCHING APPEARANCE.

IN PARTICULAR, BELOW RTU IM-1 (INCREASE MILLER) THERE IS HARD CEILING (G-4 GIRLS TOILET) WHICH WILL NEED TO BE ACCESSED TO REACH THE UNIT. THIS SYSTEM SHALL BE REPAIRED BY THE CONTRACTOR AT CONCLUSION OF WORK WITH ANY NECESSARY PATCHING AND MATCHING TO PROVIDE A UNIFORM CEILING FINISH.

GENERAL NOTE

BEFORE FABRICATION OR COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE THEIR WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMMUNICATE WITH THE ARCHITECT/OWNER TO OBTAIN A SCHEDULE OF CURRENT PROJECTS AT THESE LOCATIONS.

PROJECT INFORMATION

OVERALL PROJECT DESCRIPTION:
THIS DRAWING SET DETAILS THE LEVEL 1 ALTERATION UPGRADES TO HVAC UPGRADES AT TWO (2) SEPARATE ELEMENTARY SCHOOLS WITHIN THE KATONAH-LEWISBORO SCHOOL DISTRICT. DETAILS FOR EACH PROJECT FOLLOW:

NYSID NUMBER	66-01-01-03-0-004-019
OWNER	KATONAH-LEWISBORO SCHOOL DISTRICT 60 N SALEM ROAD CROSS RIVER, NEW YORK 10518
TELEPHONE:	914.763.7000
PROJECT LOCATION	INCREASE MILLER ELEMENTARY SCHOOL 186 WACCABUC ROAD, RT. 138 GOLDENS BRIDGE, NEW YORK 10526
TYPE OF PROJECT	HVAC UPGRADE
OCCUPANCY	E
CONSTRUCTION TYPE	2B
PROJECT COMMENCEMENT	SPRING 2024
PROJECT COMPLETION	WINTER 2024
APPLICABLE CODES	2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE 1998 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT
WORK AREAS	ALTERATION LEVEL 1
PROJECT DESCRIPTION:	THIS LEVEL 1 ALTERATION PROJECT PROVIDES NECESSARY UPGRADES TO HVAC SYSTEMS BY REPLACING GAS FIRED RTUS WITH ALL ELECTRIC ROOFTOP UNITS AND HEAT PUMPS TO SERVE STUDENT OCCUPIED SPACE (GYM).

ISSUE FOR BID

NOTE: ALL LEGAL, SPECIAL ARRANGEMENTS AND PLANS RECALCULATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY KG+D. THE PROPERTY OF KG+D ARCHITECTS PC. NO PART OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF KG+D ARCHITECTS PC.

1998 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT

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INCREASE MILLER ES: 66-01-01-03-0-004-019
MEADOW POND ES: 66-01-01-03-0-007-018

2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE

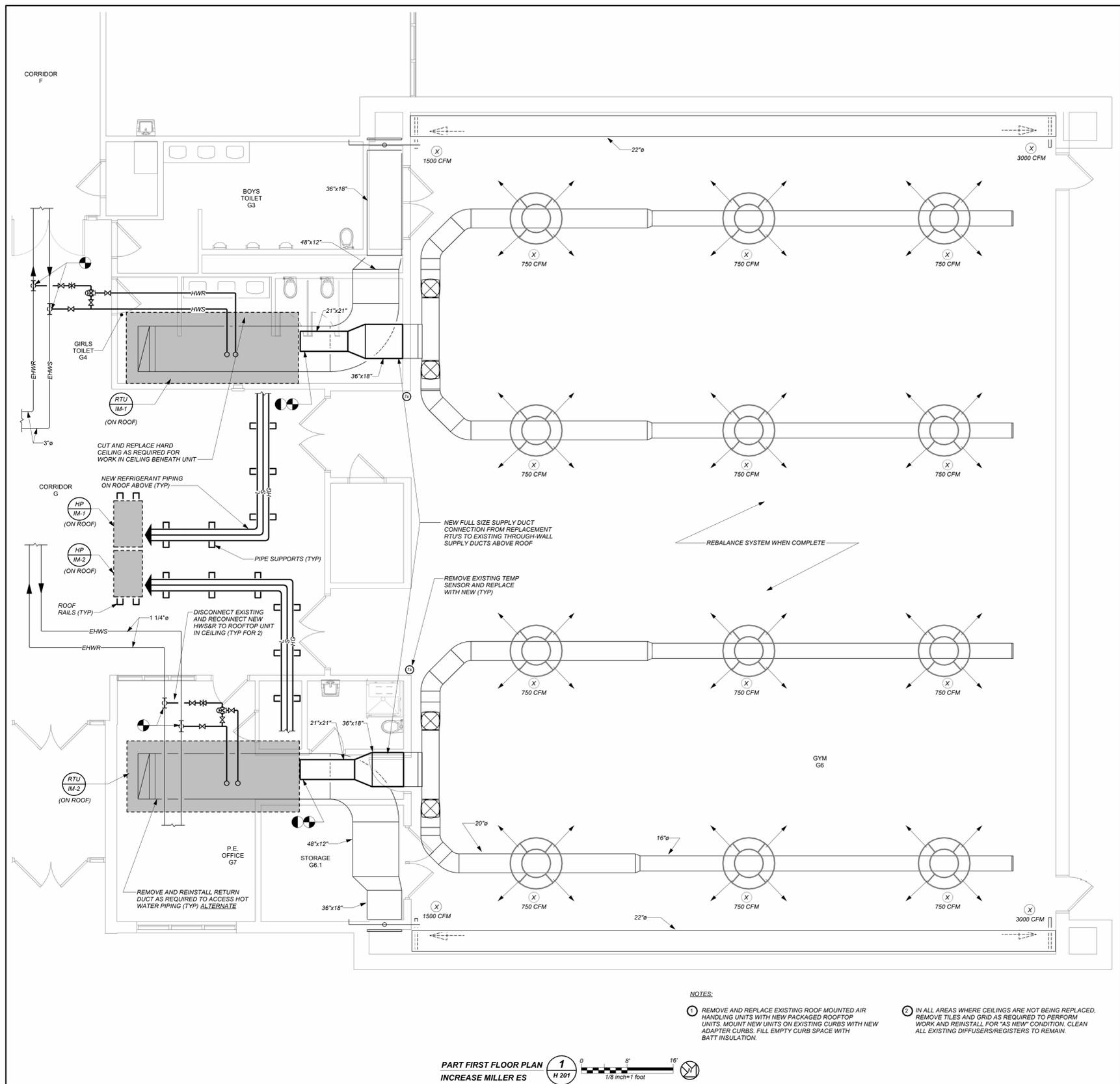
2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

1998 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT

ALTERATION LEVEL 1

THIS LEVEL 1 ALTERATION PROJECT PROVIDES NECESSARY UPGRADES TO HVAC SYSTEMS BY REPLACING GAS FIRED RTUS WITH ALL ELECTRIC ROOFTOP UNITS AND HEAT PUMPS TO SERVE STUDENT OCCUPIED SPACE (GYM).

ALTERATION LEVEL 1



HVAC LEGEND

	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN
	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED
	NEW DUCTWORK
	SQUARE DUCT TURN WITH TURNING VANES
	EXISTING REGISTER/DIFFUSER IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
	FIRE & SMOKE COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
	EXISTING HOT WATER SUPPLY PIPING
	EXISTING HOT WATER RETURN PIPING
	EXISTING HOT WATER REVERSE RETURN PIPING
	LIQUID REFRIGERANT PIPING
	SUCTION REFRIGERANT PIPING
	HOT GAS REFRIGERANT PIPING
	FLOW DIRECTION WITHIN PIPE
	GATE VALVE (HORIZONTAL/VERTICAL)
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT-SETTER)
	THREE-WAY VALVE
	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)
	OUTDOOR AIR SOURCE HEAT PUMP UNIT IDENTIFICATION
	PACKAGED ROOFTOP UNIT IDENTIFICATION
	WALL MTD. (5'-2" A.F.F.-U.O.N.) TEMPERATURE SENSOR
	DOOR UNDERCUT
	SMRE POWDER COATED SHEET METAL RISER ENCLOSURE
	ATC AUTOMATIC TEMPERATURE CONTROLS
	CFM CUBIC FEET PER MINUTE
	OA/FAI OUTSIDE (FRESH) AIR INTAKE
	MD MOTORIZED DAMPER
	HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
	GC GENERAL TRADES CONTRACTOR
	FC FLEXIBLE CONNECTION
	FSC FULL SIZE CONNECTION
	AD ACCESS DOOR
	FD FIRE DAMPER
	VIF VERIFY IN FIELD
	SECTION/DETAIL/ELEVATION/PART NUMBER
	DRAWING NUMBER
	SECTION/ELEVATION IDENTIFICATION

- #### REMOVAL NOTES:
- THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
 - DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
 - EQUIPMENT, PIPING, ETC. REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS. NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC. SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
 - ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

BASE BID: REMOVE ALL ASSOCIATED HOT WATER PIPING, VALVES, CONTROLS, ETC AND CAP AT MAINS. (BOTH SCHOOLS)

ALTERNATE: RECONNECT NEW PIPING TO NEW HOT WATER COIL IN NEW RTU. PROVIDE NEW SHUT OFF, BALANCING & CONTROL VALVES, PROGRAMMING, ETC. (BOTH SCHOOLS)

- #### NOTES:
- REMOVE AND REPLACE EXISTING ROOF MOUNTED AIR HANDLING UNITS WITH NEW PACKAGED ROOFTOP UNITS. MOUNT NEW UNITS ON EXISTING CURBS WITH NEW ADAPTER CURBS. FILL EMPTY CURB SPACE WITH BATT INSULATION.
 - IN ALL AREAS WHERE CEILINGS ARE NOT BEING REPLACED, REMOVE TILES AND GRID AS REQUIRED TO PERFORM WORK AND REINSTALL FOR "AS NEW" CONDITION. CLEAN ALL EXISTING DIFFUSERS/REGISTERS TO REMAIN.

PART FIRST FLOOR PLAN
INCREASE MILLER ES 1
H 201



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

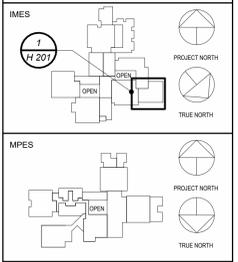
HVAC UPGRADES (IMES, MPES)

KATONAH LEWISBOBO
UFSD
60 NORTH SALEM ROAD,
CROSS RIVER, NY 10518

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NY SED PROJECT CONTROL NUMBER
INCREASE MILLER ES: 66-01-01-03-0-004-019
MEADOW POND ES: 66-01-01-03-0-007-018

ISSUED FOR BID



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No.	Date	Issue
2	11/22/2023	ISSUED FOR BID
1	09/22/2023	NYS ED SUBMISSION

LEGEND, NOTES, & IMES GYM FLOOR PLAN

Job No.	2023-1059	Date	09/22/2023
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	H 201		

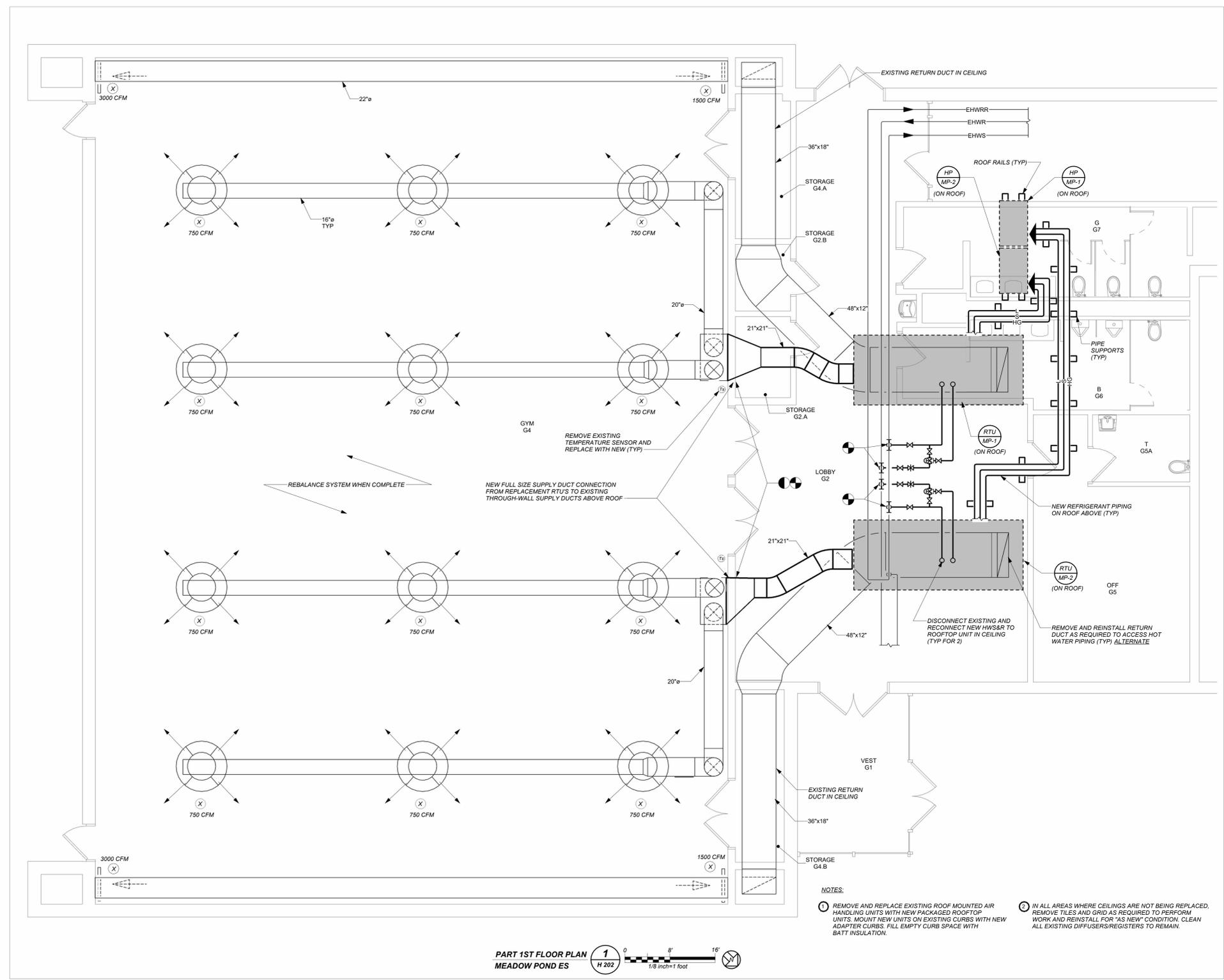
**HVAC UPGRADES
(IMES, MPES)**

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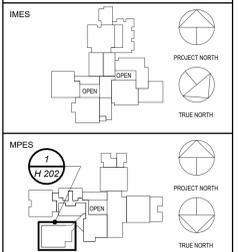


NY SED PROJECT CONTROL NUMBER
INCREASE MILLER ES: 66-01-01-03-0-004-019
MEADOW POND ES: 66-01-01-03-0-007-018

ISSUED FOR BID



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 - IN ALL AREAS WHERE CEILINGS ARE NOT BEING REPLACED, REMOVE TILES AND GRID AS REQUIRED TO PERFORM WORK AND REINSTALL FOR AS NEW CONDITION. CLEAN ALL EXISTING DIFFUSERS/REGISTERS TO REMAIN.



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No.	Date	Issue

MPES GYM FLOOR PLAN

Job No.	2023-1059	Date	09/22/2023
Scale	AS NOTED	Drawn / Checked	BGA / BGA

Sheet Number
H 202

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

SCHEDULE OF ROOFTOP AIR HANDLING UNITS

GENERAL DATA				SUPPLY FAN DATA				EXHAUST FANS (2)				ENERGY RECOVERY WHEEL				HW HEATING DATA				HOT GAS REHEAT COIL				DX COOLING DATA				DX HEATING DATA				PRE FILTERS		FINAL FILTERS		ELECTRICAL DATA		DIMENSIONS (in)			GENERAL
MARK	SERVICE	LOCATION	OUTSIDE AIR CFM	MODEL No.	CFM	TOT. S.P. IN WG	TYPE	MOTOR HP	CFM	TOT. S.P. IN WG	TYPE	MOTOR HP	SIZE	SUMMER LAT DB°F	WINTER LAT DB°F	MOTOR H.P.	GPM	ENT. AIR TEMP. °F	L.V.G. AIR TEMP. °F	TOT. CAP. MBH	ENT. AIR TEMP. °F	L.V.G. AIR TEMP. °F	TOTALS/SEN MBH	ENT. AIR TEMP. D.B./W.B.	L.V.G. AIR TEMP. D.B./W.B.	TOT. CAP. MBH	ENT. AIR TEMP. °F	L.V.G. AIR TEMP. °F	SA&EA	2" MERV	SA	4" MERV	MCA	MOP	ELECTRIC SERVICE	L	W	H	REMARKS		
STV	IMES GYM	ROOF	3015	ERP-E-04	4500	5.96	DUCTED	6.17	2250	3.48	DUCTED	1.83	03	79.9	66.8	47.7	40.2	0.25	22	55.1	100	75	55	70	159/116	78.3/65.6	55/54	219	55	100	SA&EA	2" MERV 10	SA	4" MERV 13	45	60	208/3/60	180	75	80	REFER TO 0000
STV	MPES GYM																																								

NOTES:
 1 AS MANUFACTURED BY "ANNEXAIR."
 2 BASED ON A.R.I. CERTIFIED COIL SELECTIONS.
 3 DESIGN AIR CONDITIONS: SUMMER OA (95°F/75°F) RA (75°F/63°F)
 WINTER OA (6°F) RA (70°F/53°F)
 4 INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
 5 PROVIDE UNIT WITH ENAMELED FINISH, INTEGRAL DX COIL SECTION, HOT GAS REHEAT, EXHAUST DEFROST CONTROLS WITH INSULATED MOTORIZED EXHAUST DAMPERS, INTAKE LOUVER/EXHAUST HOOD, DAMPER POWER TERMINALS, LOW TEMPERATURE LIMIT CONTROLS, 100% ECONOMIZER CONTROLS, DIRTY FILTER CONTACT, DAMPER END SWITCHES, DISCONNECT SWITCHES, VFD'S, MERV 10 INITIAL AND MERV 13 FINAL FILTERS & CO2 SENSOR IN RETURN DUCT. LOCATE UNITS ON ADAPTER CURB SUPPORT WITH ALL MOUNTING HARDWARE.
 6 HOT WATER COIL SECTION IN UNIT IS BASE BID.
 7 OUTSIDE AIR INTAKE MUST BE MIN. 10 FT FROM NEAREST PLUMBING VENT OR EXHAUST FAN.

HVAC UPGRADES (IMES, MPES)

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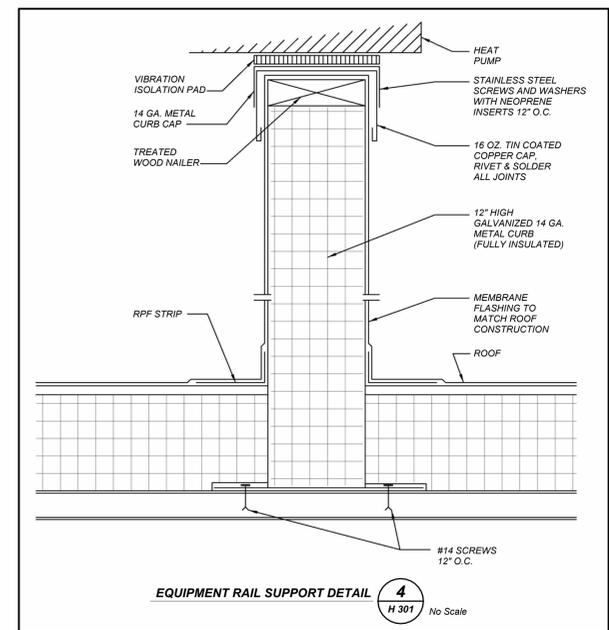
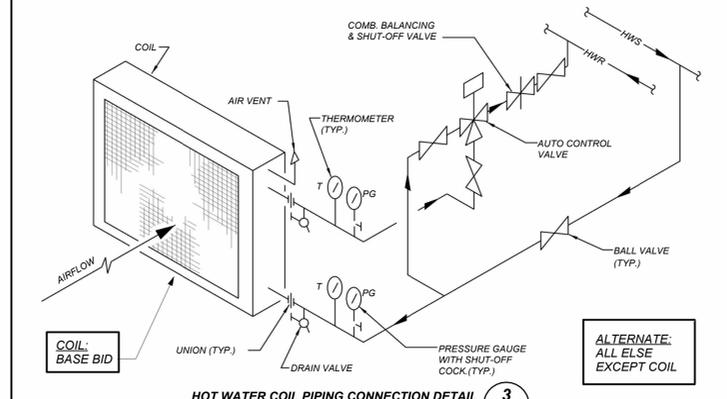
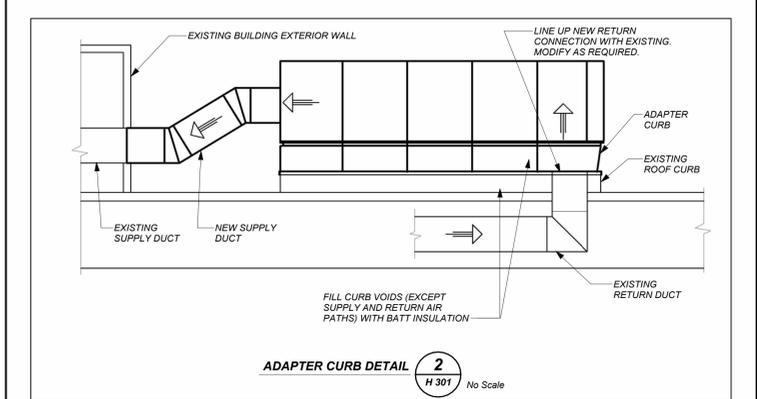
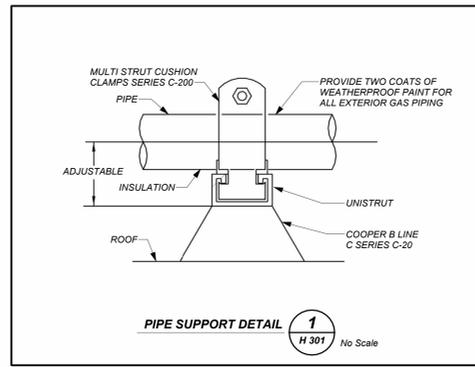
SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (HP/1000 SQ.FT.)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A+B)+1000#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)+(A+D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE Q=H+CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM	
IMES GYM	IMES Gym/109	GYM, SPORTS ARENA (PLAY AREA)	4267	7	20	0.18	0.5	30	1368	0.8	1710	2134
MPES GYM	MPES Gym / G3 G4	GYM, SPORTS ARENA (PLAY AREA)	4238	7	20	0.18	0.5	30	1363	0.8	1704	2119

SCHEDULE OF VRF AIR SOURCE HEAT RECOVERY OUTDOOR UNITS

GENERAL DATA			CAPACITY			PHYSICAL DATA			ELECTRICAL SUPPLY			EFFICIENCY		REMARKS
MARK	SERVICE	MODEL No.	COOL/HEAT (MBH)	UNIT WEIGHT (LBS)	D	W	H	SERVICE	MCA	MOP	EER/IEER		REFER TO	
STV	RTU IM-1	ARUM216BTE5	216	243	694	30	49	67	208/3/60	60.3	80	10.7	22.4	00000000
STV	RTU IM-2													
STV	RTU MP-1													
STV	RTU MP-2													

NOTES:
 1 AS MANUFACTURED BY "L.G."
 2 BASED ON A.R.I. CERTIFIED COIL SELECTIONS, REFRIGERANT R-410A
 3 INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 4 PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
 5 PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH, THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL AND RS-485 LGAP (LG AIRCON PROTOCOL), ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LOWWORKS GATEWAYS.
 6 FURNISH RAILS FOR GC INSTALLATION.
 7 PROVIDE ELECTRONIC EXPANSION VALVE KIT AND AHU/ERU COMMUNICATION CONTROL KIT (ONE FOR EACH OUTDOORS). ALL OUTDOORS ALL UNITS MUST HAVE BACNET COMMUNICATIONS TIED INTO BMS SYSTEM CONTROLS. COMMUNICATION CONTROL KIT REQUIRES 208/1/60 POWER REQUIREMENTS. PROVIDE "PRVC2" OUTDOOR UNIT MULTI APPLICATION I/O MODULE. ATC CONTRACTOR TO CONTROL CONDENSING UNIT WITH 0-10 VDC SIGNAL.
 8 INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.



ISSUED FOR BID

IMES PROJECT NORTH TRUE NORTH

MPES PROJECT NORTH TRUE NORTH

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2	11/22/2023	ISSUED FOR BID
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No. _____ Date _____ Issue _____

Sheet Title

SCHEDULES & DETAILS

Job No.	2023-1059	Date	09/22/2023
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	H 301		

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS, UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED, OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
- CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL. SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18") IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
- WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
- THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
- ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
- PREPARE AS-BUILT DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

GENERAL REMOVAL NOTES

- BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
- BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
- ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
 - CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
 - RECEPTACLES, OUTLETS AND DEVICES.
- ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
- ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS.
- DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
- EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
- EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
- EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMP INTERRUPTING CURRENT
C	CONDUIT
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
CU	CONDENSING UNIT
E.C.	ELECTRICAL CONTRACTOR
F.A.C.P.	FIRE ALARM CONTROL PANEL
G.GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING UNIT
kmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
PNL	PANEL
RECP.T	RECEPTACLE
TYP.	TYPICAL
UH	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
W	WATT
WP	WEATHERPROOF

LEGEND

	CEILING/WALL MOUNTED JUNCTION BOX.
	HOMERUN TO DESIGNATED PANEL. ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4" U.O.N.
	HOMERUN TO DESIGNATED PANEL. NUMBERS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	125V-2P-3W-20A GROUNDED TYPE. SPECIFICATION GRADE TAMPER RESISTANCE WALL MOUNTED DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	FLUSH MOUNTED ELECTRICAL PANELBOARD.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED (OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. WP WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE.
	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP. 120V U.O.N. WHERE INDICATED WITH WP PROVIDE WATER TIGHT ENCLOSURE TYPE 3.
	208 VOLT SINGLE PHASE 2 POLE. THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH SIMILAR TO EATON #AH4381 + #AH27340G NEMA 1 ENCLOSURE.
	MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
	WALL MOUNTED FIRE ALARM MANUAL PULL STATION.
	FIRE/SMOKE MOTORIZED DAMPER PROVIDED BY OTHERS AND WIRED BY E.C. E.C. SHALL PROVIDE RELAYS AND DRY CONTACTS FOR FIRE ALARM MONITORING/INTERFACE/DAMPER CONTROL. PROVIDE ALL WIRING AS REQUIRED.
	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR.
	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR.
	CEILING OR WALL MOUNTED GAS LEAK DETECTOR.
	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH REMOTE MOUNTED L.E.D. AND TEST BUTTON. MOUNT L.E.D. & TEST BUTTON UNDER SINGLE COVER PLATE ON CEILING. (TYP. U.O.N.). PROVIDE (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTER DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	CEILING MOUNTED HEAT DETECTOR.
	WALL MOUNTED FIRE ALARM STROBE LIGHT.
	FIRE ALARM CONTROL PANEL.
	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
MECHANICAL EQUIPMENT IDENTIFICATION:	
	EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
	EQUIPMENT NUMBER
DETAIL/PART PLAN NUMBER IDENTIFICATION:	
	DETAIL/PART PLAN NUMBER
	DRAWING NUMBER

HVAC UPGRADES (IMES, MPES)

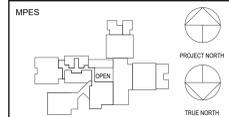
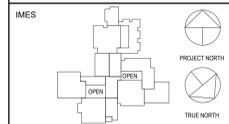
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NY SED PROJECT CONTROL NUMBER
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MEADOW POND ES: 66-01-01-03-0-007-018

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1	09/22/2023	NYSED SUBMISSION
No.	Date	Issue

Sheet Title

LEGEND, ABBREVIATIONS AND NOTES

Job No. 2023-1059 Date 09/22/2023

Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number

E 001

Branch Panel: MP-AHU

Location: STORAGE E8
 Supply From: Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 42,000
 Mains Type: MCB
 Mains Rating: 400 A
 MCB Rating: 350 A

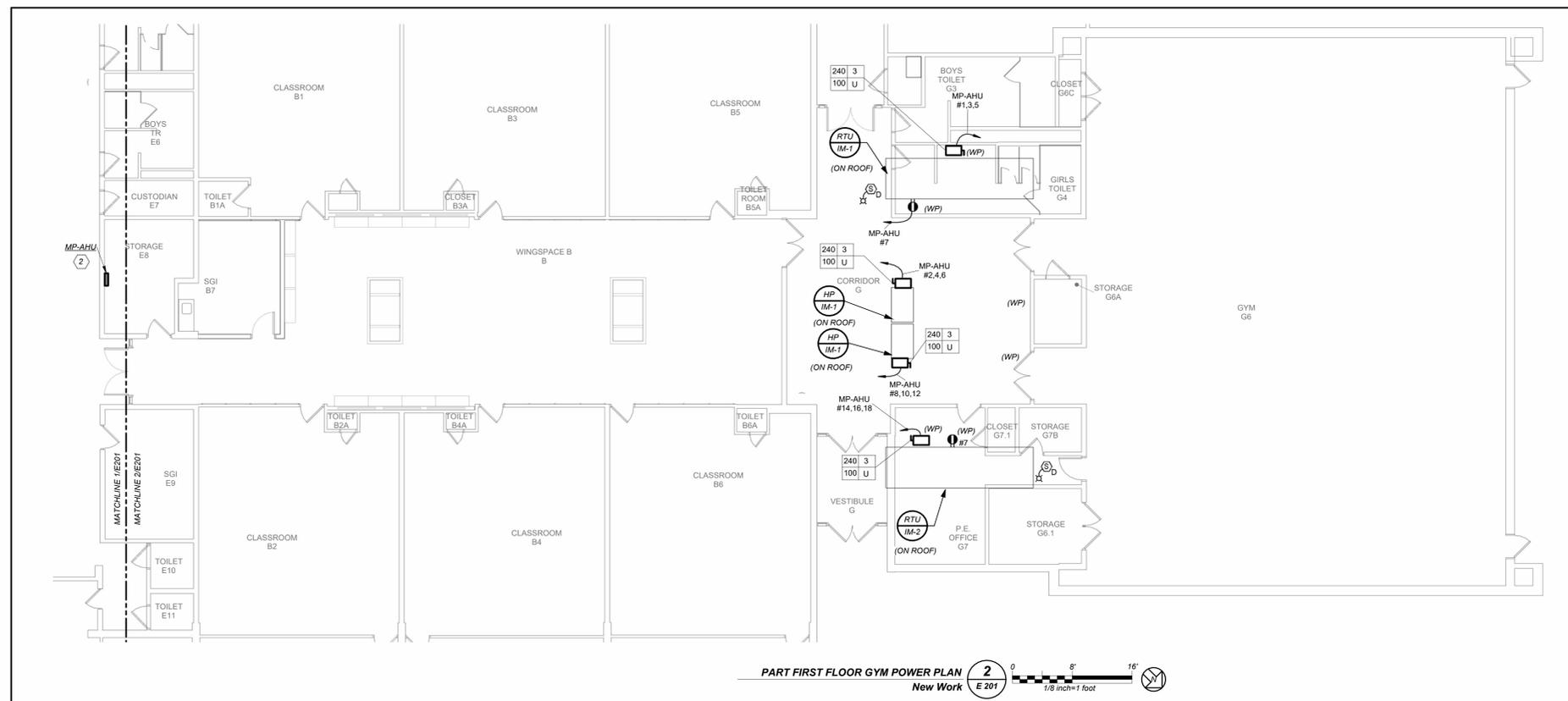
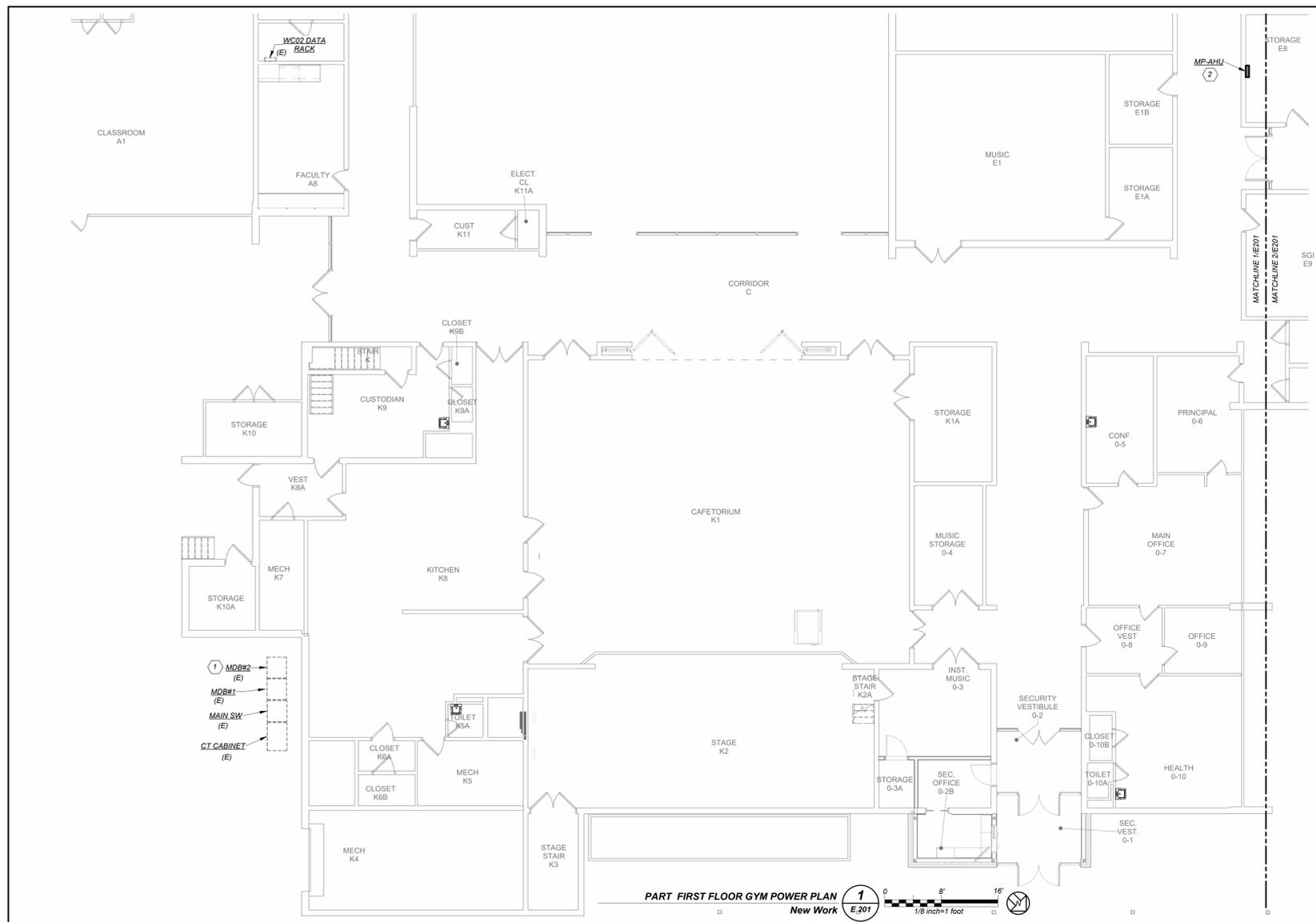
Notes:

CKT	TRIP	Circuit Description	Wire Size	Conduit Size	A	B	C	A	B	C	Conduit Size	Wire Size	Circuit Description	TRIP	CKT
1															
3	70 A	RTU-1	3#4+1#8G	1 1/4"	5524 VA			7241 VA			1 1/4"	3#4+1#8G	HP-1	80 A	4
5					5524 VA			7241 VA							6
7	20 A	ROOF GFI	2#12+1#12G	3/4"	360 VA	0 VA		7241 VA			1 1/4"	3#4+1#8G	HP-2	80 A	10
9	20 A	Spare			0 VA			7241 VA							8
11	20 A	Spare			0 VA			7241 VA							12
13	20 A	Spare			0 VA			5524 VA							14
15	20 A	Spare			0 VA			5524 VA			1 1/4"	3#4+1#8G	RTU-2	70 A	16
17	20 A	Spare			0 VA			5524 VA							18
19	20 A	Spare			0 VA			0 VA							20
21	20 A	Spare			0 VA			0 VA							22
23	20 A	Spare			0 VA			0 VA							24
25	20 A	Spare			0 VA			0 VA							26
27	20 A	Spare			0 VA			0 VA							28
29	20 A	Spare			0 VA			0 VA							30
31	20 A	Spare			0 VA			0 VA							32
33	20 A	Spare			0 VA			0 VA							34
35	20 A	Spare			0 VA			0 VA							36
37	20 A	Spare			0 VA			0 VA							38
39	20 A	Spare			0 VA			0 VA							40
41	20 A	Spare			0 VA			0 VA							42
Legend:															
PANEL TOTALS					Load Classification					Connected Load (VA)					
					Motor					76593 VA					
					Receptacle					360 VA					
Total Conn. Load:					76953 VA					76593 VA					
Total Est. Demand:					76953 VA					360 VA					
Total Conn.:					214 A										
Total Est. Demand:					214 A										

Notes:

WORK NOTES:

- 1 EC SHALL USE 120/208V 400 AMP CIRCUIT BREAKER AVAILABLE IN MAIN DISTRIBUTION BOARD. PROVIDE #8500-1#3G IN 31/2" FROM MAIN DISTRIBUTION BOARD TO NEW PANELBOARD MP-AHU.
- 2 PROVIDE NEW 120/208V 400AMP 3P, 4W PANELBOARD. REFER TO PANEL SCHEDULE FOR THE CIRCUIT BREAKER ARRANGEMENT



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

HVAC UPGRADES (IMES, MPES)

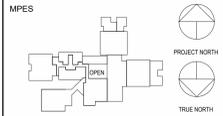
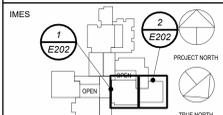
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Sheet Title

INCREASE MILLER PART FIRST FLOOR PLAN

Job No.	2023-1059	Date	09/22/2023
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	E 201		

Branch Panel: MP-AHU

Location: STORAGE G4.A
 Supply From:
 Mounting: Surface
 Enclosure: Type 1

Volts: 120/208 Wye
 Phases: 3
 Wires: 4

A.I.C. Rating: 42,000
 Mains Type: MCB
 Mains Rating: 400 A
 MCB Rating: 350 A

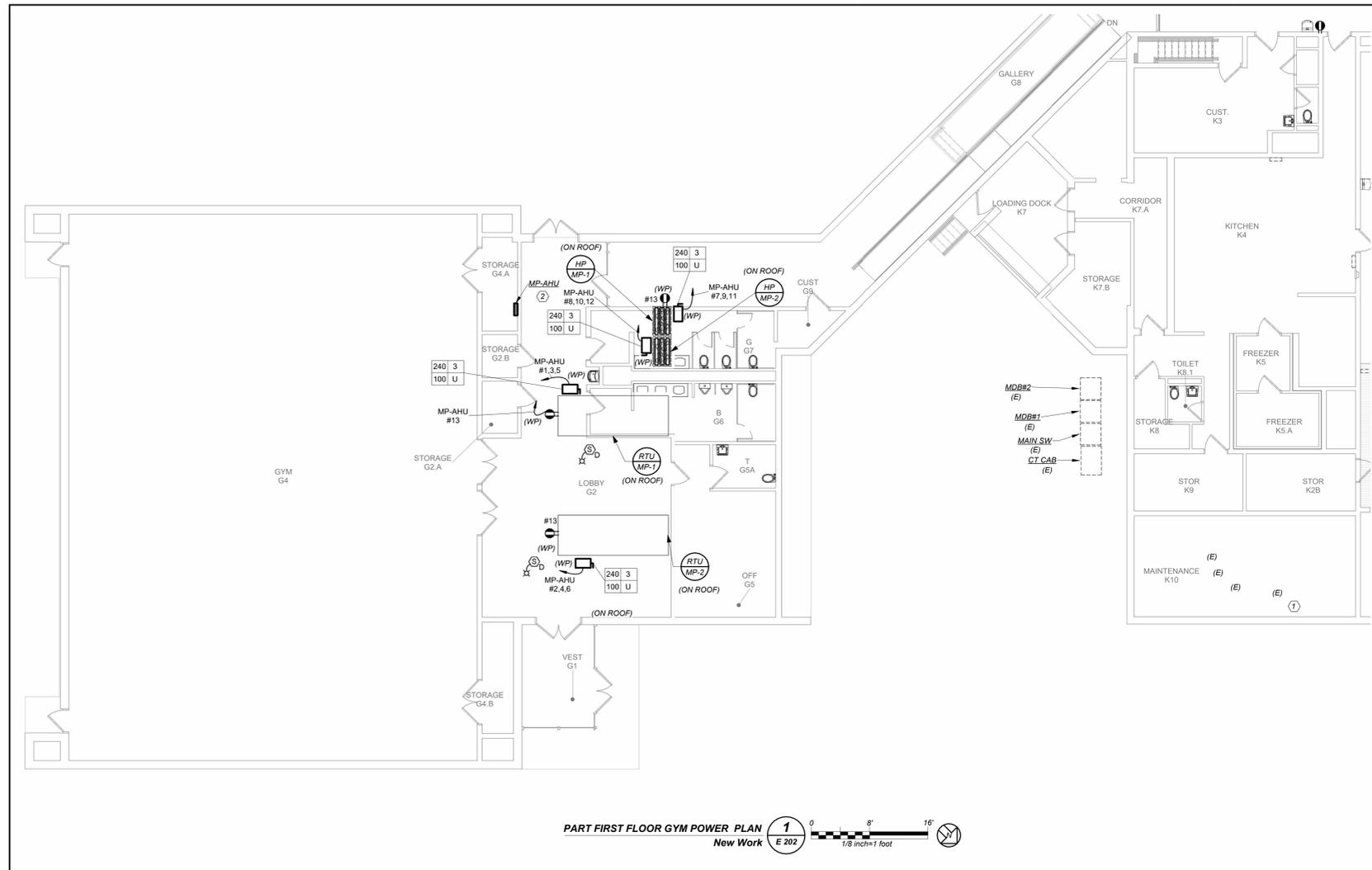
Notes:

TRIP	Circuit Description	Wire Size	Conduit Size	A	B	C	A	B	C	Conduit Size	Wire Size	Circuit Description	TRIP
1				4683 VA			4683 VA			11/4"	3#4+1#8G	RTU-2	70 A
3	70 A RTU-1	3#4+1#8G	11/4"		4683 VA		4683 VA						
5					4683 VA		4683 VA						
7				6509 VA			6509 VA			11/4"	3#4+1#8G	HP-2	80 A
9	80 A HP-1	3#4+1#8G	11/4"		6509 VA		6509 VA						
11					6509 VA		6509 VA						
13	20 A GFI RECEP	2#12+1#12G	3/4"	540 VA			0 VA						
15	20 A Spare			0 VA			0 VA						
17	20 A Spare			0 VA			0 VA						
19	20 A Spare			0 VA			0 VA						
21	20 A Spare			0 VA			0 VA						
23	20 A Spare			0 VA			0 VA						
25	20 A Spare			0 VA			0 VA						
27	20 A Spare			0 VA			0 VA						
29	20 A Spare			0 VA			0 VA						
31	20 A Spare			0 VA			0 VA						
33	20 A Spare			0 VA			0 VA						
35	20 A Spare			0 VA			0 VA						
37	20 A Spare			0 VA			0 VA						
39	20 A Spare			0 VA			0 VA						
41	20 A Spare			0 VA			0 VA						
42													
SUBTOTAL				22925 VA			22385 VA						

Legend:

PANEL TOTALS		Load Classification	Connected Load (VA)	Estimated Demand (VA)
Total Conn. Load:	67694 VA	Motor	67154 VA	67154 VA
Total Est. Demand:	67694 VA	Receptacle	540 VA	540 VA
Total Conn.:	188 A			
Total Est. Demand:	188 A			

Notes:



PART FIRST FLOOR GYM POWER PLAN
 New Work **E 202**
 Scale: 1/8" = 1' -0"

WORK NOTES:

- EC SHALL USE 120/208V 400 AMP CIRCUIT BREAKER AVAILABLE IN MAIN DISTRIBUTION BOARD. PROVIDE #8500+1#3G IN 31/2" C FROM MAIN DISTRIBUTION BOARD TO NEW PANELBOARD MP-AHU.
- PROVIDE NEW 120/208V 400AMP 3P-4W PANELBOARD. REFER TO PANEL SCHEDULE FOR THE CIRCUIT BREAKER ARRANGEMENT

HVAC UPGRADES (IMES, MPES)

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No.	Date	Issue

MEADOW POND PART FIRST FLOOR PLAN

Job No.	2023-1059	Date	09/22/2023
Scale	AS NOTED	Drawn / Checked	BGA / BGA

Sheet Number
E 202

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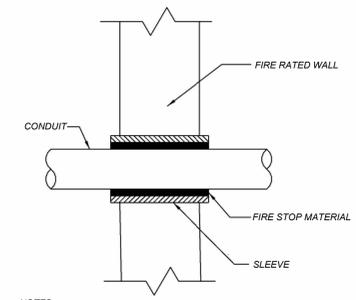
**HVAC UPGRADES
(IMES, MPES)**

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UFSO
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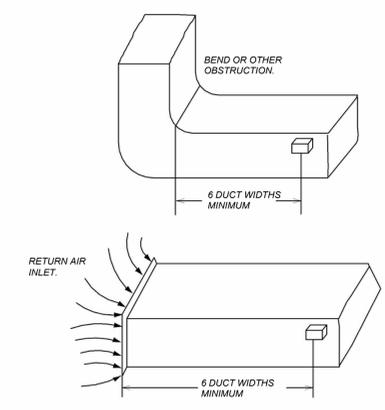
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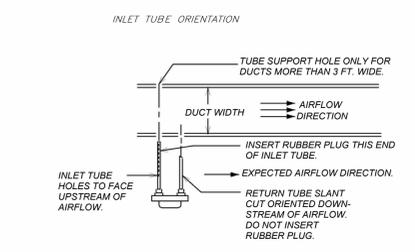


- NOTES:
1. USE WHERE CONDUITS PASS THRU FIRE RATED WALL
 2. WHERE CONDUITS PASS THRU CONCRETE BEAM, BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.

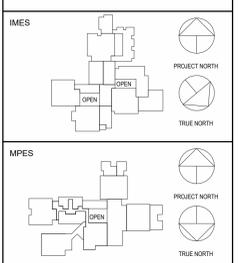
CONDUIT PENETRATION DETAILS $\frac{1}{E501}$ **N.T.S.**



TYPICAL DUCT DETECTOR PLACEMENT $\frac{2}{E501}$ **N.T.S.**



INLET TUBE ORIENTATION $\frac{2B}{E501}$ **N.T.S.**



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No.	Date	Issue

Sheet Title	
DETAILS	
Job No.	Date
2023-1059	09/22/2023
Scale	Drawn / Checked
AS NOTED	BGA / BGA
Sheet Number	
E501	

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