White Plains City School District AC and Ventilation Upgrades at Ridgeway Elementary School

225 RIDGEWAY WHITE PLAINS, NY 10605 SED PROJECT CONTROL NUMBER 66-22-00-01-0-014-01

CONTRACT H - HEATING VENTILATION AND AIR CONDITIONING CONTRACT E - ELECTRICAL CONSTRCTION

ABBREVIATIONS	
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ACI

ACST ACT ACU

AD

ADJ

A/E AFF

ALUM

ANCH

ANSI

APA

APPROX

ASPH

ASTM

AWS

BB

BD

BLDG BLK

BLKG

B.O.

BOL

BOT

CEIL

ČEM CER

CMU

COL

CONC CONST CONT

CORR

CPT

DWG

EQUIP

EXIST

FAI

FD

VHITE PLAINS

Anchor Bolt Air Conditioning American Concrete Institute Acoustic Acoustical Ceiling Tile Air Conditioning Uni Access Door Adjustable Architect/Enginee Above Finish Floor Aluminum Anchor American National Standards Institute Access Panel Approximately Asphalt American Society fo Testing & Materials American Welding Society Fire Blanket Balance Bulletin Board Board Building Block Blocking Beam Bottom Of Bottom Of Linte Bottom Ceiling Cement Ceramic Concrete Masonry Unit Column Concrete Construction Continuous Corridor Carpet Downspout Dishwasher Drawing Each Elevation Electric/Electrical Elevator **Electrical Panel** Epoxy Coating Equipment Existing Exhaust Fresh Air Intake Fire Code

B P. BD. R UL X CH C S WD D P NF EC	Finish Fire Retardent Footing Gauge Gypsum Wall I Gypsum Board Handicapped Hollow Metal Horizontal Hot Water Insulation/Insu Interior Lavatory Leader Light Maximum Mechanical Miscellaneous Masonry Open Moisture Resis Not in Contrac Not to Scale On Center Outside Diame Plywood Pounds per Sc Pointed Polyvinyl Chlor Radius or Rise Reflected Ceil Roof Drain Reinforced Room Rough Openir Similar Specifications Square Stainless Stee Steel Temperature Terrazzo Thick Turnical
лР { { L	Terrazzo Thick Typical Utility Vapor Barrier
	Utility Vapor Barrier Vinyl Composi Vertical Vent Thru Roc Water Closet Water Heater

	GE	ENERAL NOTES	D
nt	1.	ALL WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL BUILDING CODE WITH 2017 NEW YORK STATE SUPPLEMENT AS WELL AS THE NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS, AND ALL OTHER APPLICABLE CODES, LAWS, STATUTES AS REQUIRED.	INF G 00 G 10
rd	2.	ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APPLY TO ALL DRAWINGS AND FORM PART OF THE CONTRACT DOCUMENTS.	ME M 0 MD MD MD
ulating	3.	IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL DIMENSIONS, SQUARE FOOTAGES, LOCATIONS AND QUANTITIES OF ALL ITEMS AND/OR SPACES WHETHER INDICATED IN THE DRAWINGS OR NOT.	M 1 ⁻ M 1 ⁻ M 1 ⁻ M 5 ⁰ M 5 ⁰
s ning istant	4.	DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS AND DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK AND REPORT ANY ERRORS, INACCURACIES, OR CONFLICTS TO THE ARCHITECT/ENGINEER IN WRITING BEFORE BEGINNING ANY WORK.	M 6 ELE E 00 ED
eter	5.	ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS REQUIRED. STRICTLY ADHERE TO MANUFACTURER'S PRINTED INSTRUCTIONS.	ED 2 ED 2 E 10 E 20
quare Foot quare Inch	6.	VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNING WORK.	E 20 E 20 E 30 E 40
oride ser iling Plan	7.	DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS NOTED OTHERWISE. PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL PATCH AND REPAIR OF EXISTING FINISHES WHICH ARE DAMAGED DURING CONSTRUCTION.	Ē 50
s el	8.	EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF 2017 ANSI A117.1 AND PROVIDE WHERE APPLICABLE ADA COMPLIANT BUILDING COMPONENTS.	S
	9.	THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS NOT A CONFLICT WITH THE CONTRACTORS.	1. 2.
r sition Tile pof	10.	THE CONTRACTOR SHALL MAINTAIN AT THE SITE ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS AND APPROVED SHOP DRAWINGS AND APPROVED SAMPLES MARKED CURRENTLY TO RECORD ALL CHANGES DURING CONSTRUCTION.	3.
Fabric	11.	ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, WHETHER DUE TO FIELD CONDITIONS OR OMISSION SHALL BE DOCUMENTED BY THE ARCHITECT PRIOR TO EXECUTION. ANY INCREASE OR DECREASE IN THE CONTRACT PRICE MUST BE APPROVED IN WRITING PRIOR TO EXECUTION.	4.

LOCATION MAPS

Floor Drain

			 "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."
GYMNASIUM -	ROOM DESIGNATION	GYPSUM	2. SCHOOL AREAS TO BE DISTURBED DURING RENOATION OR DEMOLITION ACTIVITIES HAVE BEEN TESTED AND FOUND
		CONCRETE	TO CONTAIN ASBESTOS. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028200. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE
A5.0	SECTION MARK	AGGREGATE	ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.
1 	DETAIL SYMBOL	EARTH	3. "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
1 A4.0	ELEVATION KEY		(1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
	INTERIOR ELEVATION	PLYWOOD	(2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
B	REFERENCE	RIGID INSULATION	(3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
— —	ELEVATION LINE	STEEL	(4) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS
$\overline{5}$	REVISION	WOOD	SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
3	PARTITION TYPE	WOOD BLOCKING	(5) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."
	$\frac{\text{GYMNASIUM}}{-}$	GYMNASIUMROOM DESIGNATIONIIISECTION MARKII <tr< td=""><td>GYMNASIUMROOM DESIGNATIONGYPSUM1SECTION MARKCONCRETE1SECTION MARKCONCRETE1DETAIL SYMBOLCONCRETE1DETAIL SYMBOLCONCRETE<</td></tr<>	GYMNASIUMROOM DESIGNATIONGYPSUM1SECTION MARKCONCRETE1SECTION MARKCONCRETE1DETAIL SYMBOLCONCRETE1DETAIL SYMBOLCONCRETE<

SYMBOLS LEGEND



- (2) 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.
- (3) ALL OCCUPIED PARTS 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."
- 5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES." PERFORMED IN UNOC ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS BUILDING IN ACCORDA FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE BUILDING. SPECIFIC AREAS HAVE LEAD AS DESCRIBED WILL BE ABATED IN A SECTION 026000.

"CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT

SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR

AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR

ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN."

PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR

"THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL

OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES

PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES,

		H 2	architects + engineers
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		914.358.56	23 • www.h2m.com
4-017		CONSULTANTS:	
		MARK DATE 10-16-23 1 1 11-01-20	DESCRIPTION FINAL BID DOCUMENT ADDENDUM #1
	·····		
EXISTING GRASS AREA			
EXISTING COURTYARD	G ASPHALT OUND		E OF NEW LORD IN CASTER 099167
RIDGEWAY ELEMENTARY SCHOOL		"ALTERATION OF THIS DOCUMENT DESIGNED BY: DRAWN BY: PROJECT No.: DATE: WPSD 2204 OCT	EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL" CHECKED BY: CHECKED BY: COBER 2023
EXISTING	EXISTING ASPHALT	CLIENT White School	Plains City ol District
EXISTING GRASS AREA		AC and Venti	ation Upgrades at
ING LOT		Ridgeway El	ementary School
<u>MBOLS</u> RENOVATION WORK IS AFF ENTRANCE / EGRESS WILL NOT HAVE AN IN	S SCHEDULED TO BE COMPLETED DURING THE IEN SCHOOL IS NOT IN SESSION AND THEREFORE IPACT ON STUDENT ENTRANCE/EXIT EGRESS.	entains l	ublic Schools
"THE CONTRACTOR SHALL BE RESPORSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE 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	UNDER NEW YORK STATE LAW SMOKING IS PROHIBITED ON SCHOOL GROUNDS. EMPLOYEES FOUND TO BE SMOKING ON SCHOOL GROUNDS SHALL BE ORDERED OFF SITE AND A SECOND OFFENSE WILL BE GROUNDS FOR PERMANENT REMOVAL FROM PROJECT. LEGAL PENALTIES MAY ALSO BE APPLIED.	REAL L	IFE LEARNING
DE OCCUPIED. . "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE DUE DING IS CONTRACTOR IN THE DESIGN OF THE DESIGN	ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE NECESSARY OR REQUIRED FOR THE SAFETY OF ITS	225 I White Pla	Ridgeway iins, NY 10605
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	ENFLOTEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY INJURED OR ILL.	SED PROJ NO. 66-22-	ECT CONTROL 00-01-0-014-017
I HAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.	THE CONTRACTOR FOR GENERAL CONSTRUCTION SHALL PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT		ONTRACTS
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.	SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE AND CLEAR.	STATUS FINAL BI	
MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR56 AS AN ASBESTOS PROJECT INVOLVING THE REMOVAL, DISTURBANCE, REPAIR, ENCAPSULATION, ENCLOSURE OR HANDLING OF 10 SQUARE FEET OF ASBESTOS OR ASBESTOS MATERIAL MAY BE PERFORMED IN UNOCCUPIED AREAS OF AN OCCUPIED BUILDING IN ACCORDANCE WITH 12NYCRR56.		GENERAL DRAWINGS PLAN, EXIT PL	NOTES, MAPS, LIST, STAGING AN AND LEGENDS
SPECIFIC AREAS HAVE BEEN TESTED AND FOUND TO CONTAIN LEAD AS DESCRIBED IN THE PROJECT MANUAL. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 026000.			00.00

ABBREVIATIONS			
AFF	ABOVE FINISHED FLOOR		
BCU	BUILDING CONTROL UNIT		
BTU	BRITISH THERMAL UNIT		
CFH	CUBIC FEET PER HOUR		
CFM	CUBIC FEET PER MINUTE		
CLG	CEILING		
COMM.	COMMUNICATION		
CV	CONTROL VALVE		
(D)	DEMOLISH		
DB	DRY BULB		
DCV	DEMAND CONTROLLED VENTILATION		
DEG. F	DEGREES FAHRENHEIT		
DIA			
DX	DIRECT EXPANSION		
'E'	ELECTRICAL CONTRACTOR		
(E)	EXISTING		
EA	EACH		
EAT	ENTERING AIR TEMPERATURE		
EER	ENERGY EFFICIENCY RATING		
ESP	EXTERNAL STATIC PRESSURE		
FAI	FRESH AIR INTAKE		
FD	FLOOR DRAIN		
FLA	FULL LOAD AMPS		
FT. H20	FEET OF WATER		
'G'	GENERAL CONSTRUCTION CONTRACTOR		
GPM	GALLONS PER MINUTE		
GPH	GALLONS PER HOUR		
Н	HEIGHT		
'H'	HVAC CONTRACTOR		
HP	HORSEPOWER		
IN.	INCHES		
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)		
KW	KILOWATTS		
L	LENGTH		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		
LCD	LIQUID CRYSTAL DISPLAY		
LDB	LEAVING DRY BULB TEMPERATURE		
LWB	LEAVING WET BULB TEMPERATURE		
LWT	LEAVING WATER TEMPERATURE		
М	METER		
MAX	MAXIMUM		
MBH	1,000 BTU PER HOUR		
MCA	MINIMUM CIRCUIT AMPACITY		
MIN	MINIMUM		
MNF	MANUFACTURER		
N.C.	NORMALLY CLOSED		
N.O.	NORMALLY OPEN		
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
NPT	NATIONAL PIPE THREAD		
NTS	NOT TO SCALE		
OAI	OUTDOOR AIR INTAKE		
OD	OUTER DIAMETER		
OED	OPEN ENDED DUCT		
'P'	PLUMBING CONTRACTOR		
PD	PRESSURE DROP		
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)		
RD	ROOF DRAIN		
RPM	REVOLUTIONS PER MINUTE		
RPZ	REDUCED PRESSURE ZONE		
SAT	SUPPLY AIR TEMPERATURE		
SEER	SEASONAL ENERGY EFFICIENCY RATING		
TEMP	TEMPERATURE		
TG	TRANSFER GRILLE		
ТҮР	TYPICAL		
VFD			
W	VARIABLE FREQUENCY DRIVE		
W WB	VARIABLE FREQUENCY DRIVE WIDTH WET BULB		

UCTWORK LEGEND			PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
<u></u>		DUCTWORK BRANCH CONNECTION			NEW WORK
			с— о—		PIPING DOWN/ PIPING UP
	VD		●− 〔		BALL VALVE WITH HOSE END CONNECTION
	CD	ROUND FACE SUPPLY DIFFUSER	Q	тн	THERMOMETER
	SEE AIR DEVICE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER		U	UNION
	SEE AIR			FPC	FLEXIBLE PIPE CONNECTION
	SCHEDULE	SQUARE FACE SUPPLY DIFFUSER			DIRECTION OF FLOW
	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER		PSR	PRESSURE SAFETY AND RELIEF VALVE
	FC	FLEXIBLE CONNECTION		PRV	PRESSURE REDUCING VALVE
				BV	BALL VALVE
				ВА	BALANCING VALVE
		RECTANGULAR TO ROUND TRANSITION	<u>_</u>	BFV	BUTTERFLY VALVE
	AL	ACOUSTICAL LINING			TEMPERATURE SENSOR WITH THERMOWELL
				GA	GATE VALVE
		END CAP		GB	GLOBE VALVE
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)	<u> </u>	AV	
		SUPPLY DUCT DROP (TURN DOWN)		cv	2-WAY ELECTRONIC CONTROL VALVE
		RETURN/EXHAUST DUCT DROP (TURN DOWN)		CV	3-WAY ELECTRONIC CONTROL VALVE
		SUPPLY DUCT RISE		cv	3-WAY PNEUMATIC CONTROL VALVE
				STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
				FD	FLOOR DRAIN
DSD	DSD	DUCT SMOKE DETECTOR	چې کې ج		AIR SEPARATOR
M	MD	MOTORIZED DAMPER WITH ACTUATOR			STEAM TRAPS (INDICATE TYPE)
	AD	ACCESS DOOR		СН	CHECK VALVE
	FD/AD	FIRE DAMPER WITH ACCESS DOOR	<u>P</u>	PG	PRESSURE GAUGE WITH GAUGE COCK
				RED	REDUCER
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR		со	CLEANOUT END CAP
		FAN			PIPE GUIDE
·	<u> </u>	WORK TO BE REMOVED			PIPE ANCHOR
					CAPPED PIPE
		POINT OF DISCONNECTION FROM EXISTING			PUMP
•		POINT OF CONNECTION TO EXISTING	· <u>/////</u> ,		WORK TO BE REMOVED
			•		POINT OF DISCONNECTION FROM EXISTING
		DECODIDEION	•		POINT OF CONNECTION TO EXISTING
SYMBOL	ABBREV	DESCRIPTION	┸┤╱┝┸	TDV	TRIPLE DUTY VALVE
(C)		CARBON MONOXIDE SENSOR	_		

CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
©		CARBON MONOXIDE SENSOR
()		THERMOSTAT
5		DIGITAL TEMPERATURE SENSOR
H		HUMIDITY SENSOR
(2)		CARBON DIOXIDE SENSOR
9		PRESSURE SENSOR

		OPERABLE MECHANICAL SYST
	2.	THE CONTRACTOR, BY PRESE SITE AND IS COMPLETELY FAI AFFECTING THE WORK AND IT CONFLICTS BETWEEN FIELD C THE SUBMISSION OF BIDS.
	3.	PERFORM ALL WORK IN ACC CONSERVATION CONSTRUCTION THE LOCAL AUTHORITIES HAVE
	4.	COMPLY WITH THE NATIONAL INSTALLATIONS.
	5.	FIRE STOP ALL OPENINGS IN F DAMPERS AND ACCESS DOC DUCTWORK AS PER THE ME LOCATIONS OF FIRE RATED CO
	6.	DO NOT SCALE DRAWINGS. D SCOPE AND GENERAL ARRAN CALLED FOR IN THE SPECIFICA COORDINATE CONTRACT DO MATERIALS PURCHASED WI REQUIREMENTS TO PROVIDI CONTRACTOR'S INTENDED MI SHALL ENSURE A PROPER ARCHITECT/ENGINEER DURIN EQUIPMENT.
	7.	MAINTAIN MAXIMUM HEADRO CONDITIONS APPEAR INADE INSTALLATION. MAINTAIN A M DUCTS, CONDUITS, SUSPENDE
	8.	FIELD VERIFY AND COORD MODIFICATIONS IN THE LAYO PROPER EXECUTION OF THE V
	9.	PROVIDE PRODUCTS OF ONE I EQUIPMENT IS REQUIRED.
	10.	INSTALL ALL EQUIPMENT AND CONTRACT DOCUMENTS, ANI PIPING AND EQUIPMENT INSTA
	11.	LOCATE ALL TEMPERATURE, STRAIGHT SECTION OF PIPE (ENSURE MANUFACTURER CER
	12.	COORDINATE ALL EQUIPMENT PROVIDE ALL PIPING AND DUC
	13.	COORDINATE LOCATIONS ANI COORDINATE ALL PIPING AN WORK.
	14.	COORDINATE INSTALLATION O
	15.	COMPLETE ALL PRESSURE TE APPLIED.
	16.	TESTING, ADJUSTING, AND BAI (AABC) OR THE NATIONAL ENV BALANCING IN ACCORDANCE V
	17.	MAKE ALL ATTACHMENTS TO MEETING MSS STANDARDS. TH
	18.	PROVIDE CONCRETE PADS A I INCHES BEYOND THE EQUIPME
	19.	INTERNALLY LINE ALL SUPPLY WITH 1" THICK INSULATION. PROVIDED WITH EXTERNALLY SECTION 230719 FOR ADDITION
	20.	PROVIDE TRAPPED DRAIN PIP EXPOSED TO SYSTEM AIR STR UNIT OPERATING PRESSURE. APPROVED BY THE ARCHITEC
	21.	INSTALL PIPING, DUCTWORK, SPACES UNLESS OTHERWISE
	WO	RK IN EXISTING AREAS
	1.	EXISTING CONDITIONS, INCLU DRAWINGS ARE DIAGRAMMATI
	2.	CUT AND ROUGH PATCH EXIS PATCHING AND FLASHING RE CUTTING AND PATCHING WOR VOIDED. USE QUALIFIED PERS
$\left(\right)$		
\sum		
	1.	INSTALL SMOKE DETECTORS II DETECTOR SUPPLY AND WIRIN
\mathbf{X}		

GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND PERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

E CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND FECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR NFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO E SUBMISSION OF BIDS.

RFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY NSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF E LOCAL AUTHORITIES HAVING JURISDICTION.

MPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL STALLATIONS.

STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE MPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR CTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR CATIONS OF FIRE RATED CONSTRUCTION.)

NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY OPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR LLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. ORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND TERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S QUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. NTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS ALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE CHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY JIPMENT.

INTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE NDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH STALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

LD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE DIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR OPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

OVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR JIPMENT IS REQUIRED.

TALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, INTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PING AND EQUIPMENT INSTALLATION REQUIREMENTS.

CATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH RAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO SURE MANUFACTURER CERTIFIED ACCURACY.

ORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND OVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.

ORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. ORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION

ORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.

MPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS PLIED.

STING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL ABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND ANCING IN ACCORDANCE WITH THE SPECIFICATIONS.

KE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS ETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.

DVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 CHES BEYOND THE EQUIPMENT ON ALL SIDES.

ERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS TH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE OVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION CTION 230719 FOR ADDITIONAL REQUIREMENTS.

OVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS POSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION PROVED BY THE ARCHITECT/ENGINEER.

TALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED ACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

IN EXISTING AREAS

STING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE AWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

T AND ROUGH PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. FINISH CHING AND FLASHING REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS. PERFORM ALL TTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT IDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

ACT 'H' SCOPE NOTES

) TALL SMOKE DETECTORS IN DUCTWORK FOR AIR HANDLING UNITS RATED AT 2,000 CFM OR GREATER. SMOKE $^{-1}$ TECTOR SUPPLY AND WIRING IS PART OF CONTRACT 'E'.

FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO 🖊 PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.

3. REMOVE CHASE ENCLOSURE COVER WHEN PERFORMING WORK IN ANY CHASE, AND REINSTALL THE CHASE ENCLOSURE COVER WHEN WORK IS COMPLETE.

4. PERFORM ALL CUTTING AND PATCHING AS REQUIRED IN THE EXECUTION OF THE WORK.

LEGENDS/ABBREVIATIONS NOTES

1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.



architects engineers

2700 Westchester Ave., Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com

ONSULTANTS:

MARK	DATE	DESCRIPTION
	10-16-23	FINAL BID DOCUMENT
1	11-01-23	ADDENDUM #1



White Plains City **School District**

AC and Ventilation Upgrades at Ridgeway Elementary School



225 Ridgeway White Plains, NY 10605

SED PROJECT CONTROL NO. 66-22-00-01-0-014-017

CONTRACT H **HEATING VENTILATION AND AIR** CONDITIONING

FINAL BID DOCUMENT

HVAC GENERAL NOTES AND LEGENDS

M000.00













		WHITE PLAINS
<i>PS</i>	EXISTING LOW PRESSURE STEAM SUPPLY PIPING	
PR	EXISTING LOW PRESSURE STEAM RETURN PIPING	INFRASTRUCTURE
<	GATE VALVE	IMPROVEMENTS
p0	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)	RIDGEWAY
	FLOW DIRECTION WITHIN PIPE	ELEMENTARY
T IST	EXISTING FIN TUBE RADIATION IDENTIFICATION (REPLACE TRAP)	SCHOOL
	EXISTING FLOAT AND THERMOSTATIC TRAP TO BE REPLACED IDENTIFICATION	WHITE PLAINS New York
	EXISTING THERMOSTATIC TRAP TO BE REPLACED IDENTIFICATION	$\langle -\circ \rangle$
7 IIST	EXISTING HVAC ROOFTOP UNIT IDENTIFICATION (REPLACE TRAP)	architects
V	EXISTING UNIT VENTILATOR IDENTIFICATION (REPLACE TRAP)	kaeyer, garment & davidson architects, pc 285 main street, mount kisco, new york 10549
	EXISTING CONVECTOR IDENTIFICATION (REPLACE TRAP)	p: 914.666.5900 f: 914.666.0051 kgdarchitects.com
H	EXISTING UNIT HEATER IDENTIFICATION (REPLACE TRAP)	CONSTRUCTION
		DOCUMENTS
F	ABOVE FINISHED FLOOR	
	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR	S.E.D. Control No.
- <u>L</u>	ELECTRICAL CONTRACTOR	66-22-00-01-0-014-009
2	PLUMBING CONTRACTOR	
9C	CONSTRUCTION CONTRACTOR	
		DAMIANO BARILE ENGINEERS, P.C.
		MECHANICAL ELECTRICAL CONSULTANTS
		77 TARRYTOWN ROAD, WHITE PLAINS NY 10607 PHONE: 914.328.6060 FAX: 914.328.9304
		KEY PLAN
		SouthEAST MECHANCERC
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		olado Z
		8/28/0-
	NO EXCEPTION TAKEN AKE CORRECTIONS NOTED	
	EXAMINED SUBMIT SPECIFIED ITEM CHECKING IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN	
	CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECI-	
1 " <u>E</u>	1-1/2" FICATIONS CONFIRMED AND CORRELATED AT THE JOB SITE; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS MUCH MATLE THAT OF ALL OTHER TRADES AND THE SATISFACTORY	NOTE: ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR
T. Cel	PERFORMANCE OF HIS WORK KAEVER, GARMENT & DAVIDSON	REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON, AND IN CONNECTION DEVELOPED FOR USE ON AND DEVELOPED FOR USE ON AND DEVELOPED FOR
1-1/2" (E) UL	ARCHITECTIS, ARCHI	WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGE MENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF (KG&D).
		WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTEED OF ANY VARIATIONS ERON DIMENSIONS AND CONDITIONS
1 "E F&T	2 3/4 FT DECENTED	SHOWN BY THESE DRAWINGS, SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.
6	BOILER ROOM	LEGAL NOTICE: ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION O THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO IS A VIOLATION OF TITLE VII. SECT. 69.5 (b) OF NEW YORK STATE LAW.
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	ARCHIELTS FC	
	RECEIVED	2 4/17/03 BID DOCUMENTS
		1 11/01/02 SED SUBMITTAL
		No. Date Issue Sheet Title
	Damiano Bahile Engineens, MG.	
		II IKENCH PLAN
भव्म		
		Job No. Sheet No.
		2002-1373
		August 05, 2002
	KEY PLAN	AS NOTED
	N.T.S.	