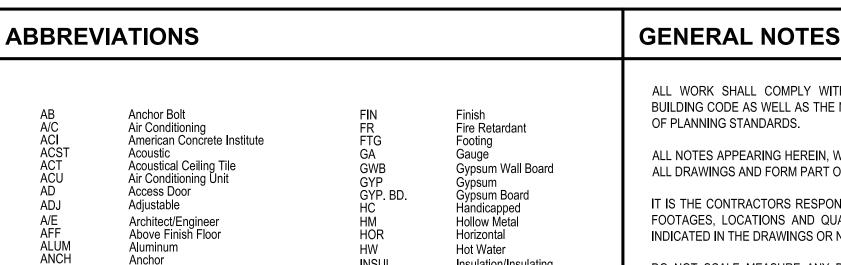
White Plains City School District **UV REPLACEMENTS AT**

GEORGE WASHINGTON ELEMENTARY SCHOOL

100 ORCHARD STREET WHITE PLAINS, NEW YORK 10604

SED PROJECT CONTROL NUMBER 66-22-00-01-0-009-017

CONTRACT G - GENERAL CONSTRUCTION WORK, CONTRACT H - HEATING, VENTILATION AND AIR CONDITIONING WORK & CONTRACT E - ELECTRICAL WORK



TEMP TER THK

UTIL

American Welding Society

Fire Blanket

Bottom Of Lint

Concrete

Corridor

CORR CPT

Constructior

Continuous

Downspout

Dishwashe

Each

Elevation

Electric/Electrical

Electrical Panel

Epoxy Coating

Fresh Air Intake

Fire Code

Floor Drain

LOCATION MAPS

Equipment

Existing Exhaust

Concrete Masonry Unit

Insulation/Insulating Mechanical Miscellaneous Masonry Opening Moisture Resistar Not to Scale On Center **Outside Diameter** Plywood

Pounds per Square Foot Pounds per Square Inch Radius or Riser Reflected Ceiling Pla Roof Drain Reinforced

Rough Opening **Specifications** Stainless Steel Temperature Terrazzo Thick Typical Vapor Barrier

Vinyl Composition Tile

Vent Thru Roof

Welded Wire Fabric

Water Closet

Water Heater

ALL WORK SHALL COMPLY WITH THE NEW YORK STATE FIRE PREVENTION AND

ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APPLY TO

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.

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

DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS NOTED OTHERWISE. PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE RESPONSIBLE

EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ANSI AND PROVIDE

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.

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.

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.

DRAWING LIST

G 000.00 GENERAL NOTES, MAPS, DRAWING LIST, STAGING PLAN, EXIT PLAN & LEGENDS G 100.00 EXISTING FIRST FLOOR PLAN

G 101.00 EXISTING SECOND FLOOR PLAN G 102.00 EXISTING THIRD FLOOR PLAN

M 600.00 MECHANICAL SCHEDULES 1 OF 2

MECHANICAL SCHEDULES 2 OF 2 ELECTRICAL DRAWINGS (CONTRACT E)

E 001.00 ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM AND NOTES ED 100.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN ED 101.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN ED 102.00 ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN ED 110.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

ED 111.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED 112.00 ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN ED 120.00 ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN ED 121.00 ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN

ED 130.00 ELECTRICAL ROOF DEMOLITION PLAN E 100.00 ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN E 101.00 ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN E 102.00 ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN E 110.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN E 111.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

E 112.00 ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN E 120.00 ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN E 121.00 ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN E 130.00 ELECTRICAL ROOF HVAC POWER PLAN

E 501.00 ELECTRICAL SCHEDULES, DETAILS AND SINGLE LINE DIAGRAM

E 500.00 ELECTRICAL PANEL SCHEDULES

I. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYEE ENTRANCE. SEE 2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE LOCATED A MINIMUM OF 15'-0" FROM ALL WINDOW OPENINGS. ALL GATES ARE TO BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A

1 Staging Site Plan Scale: NTS

CONTRACTOR IS TO STAGE ON THE SITE IN SUCH A MANNER AS TO NOT BLOCK OR ENCROACH UPON EXISTING EXITS/ENTRANCES TO BUILDING, AND VEHICLE ACCESS.

STAGING NOTES

RENOVATION OF INTERIOR FINISHES WORK IS

SCHEDULED TO BE COMPLETED WHEN SCHOOL IS

NOT IN SESSION AND THEREFORE WILL NOT HAVE

AN IMPACT ON STUDENT ENTRANCE/EXIT EGRESS.

GRASS AREA

CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO PRE-CONSTRUCTION CONDITION, UPON COMPLETION OF WORK IN THAT AREA.

GRASS AREA

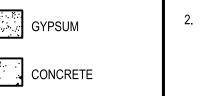
SYMBOLS LEGEND

ROOM DESIGNATION

SECTION MARK

DETAIL SYMBOL

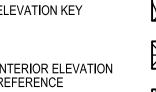
UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS



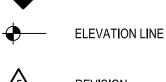


EARTH BATT INSULATION

WOOD BLOCKING



PLYWOOD INTERIOR ELEVATION REFERENCE RIGID INSULATION



REVISION



- ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."
- SPECIFIC AREAS HAVE BEEN TESTED AND FOUND TO CONTAIN ASBESTOS AS DESCRIBED IN THE PROJECT MANUAL. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028200. A COPY OF THE REPORT CAN BE VIEWED AT THE DISTRICT OFFICE LOCATED AT 5 HOMESIDE LANE, WHITE PLAINS, NY 10605
- "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS: (1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A

SAFE AND SECURE MANNER.

- (2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- (3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- (4) 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.
- (5) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."

- "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL 4. "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.
 - (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL BE ASSIGNED OR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR.
 - (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

- WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING, OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.
- 7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.
- 8. WORK UNDER THIS PROJECT WILL BE COMPLETED DURING THE SUMMER RECESS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.

"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." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE BUILDING.

"THE CONTRACTOR SHALL BE RESPONSIBLE 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 BE APPLIED.

GRASS AREA

WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY. SEE LEGEND BELOW.

"LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS NECESSARY OR REQUIRED FOR THE SAFETY OF ITS OCCUPIED." IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", EMPLOYEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR 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.

10. 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. EXITS SHALL BE MAINTAINED FREE AND CLEAR.

11. 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.

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 020600

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

12. ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY INJURED OR ILL.

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 ALL WORK FROM THE WEATHER, AND TO PROVIDE SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED



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architects

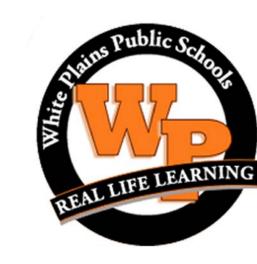
engineers

MARK	DATE	DESCRIPTION
-	02-03-2023	FINAL BID DOCUMENT
1	11-08-2022	ADDENDUM #1
, and the second		



White Plains City School District

UV Replacements at the **George Washington Elementary School**



100 Orchard Street White Plains NY, 10604

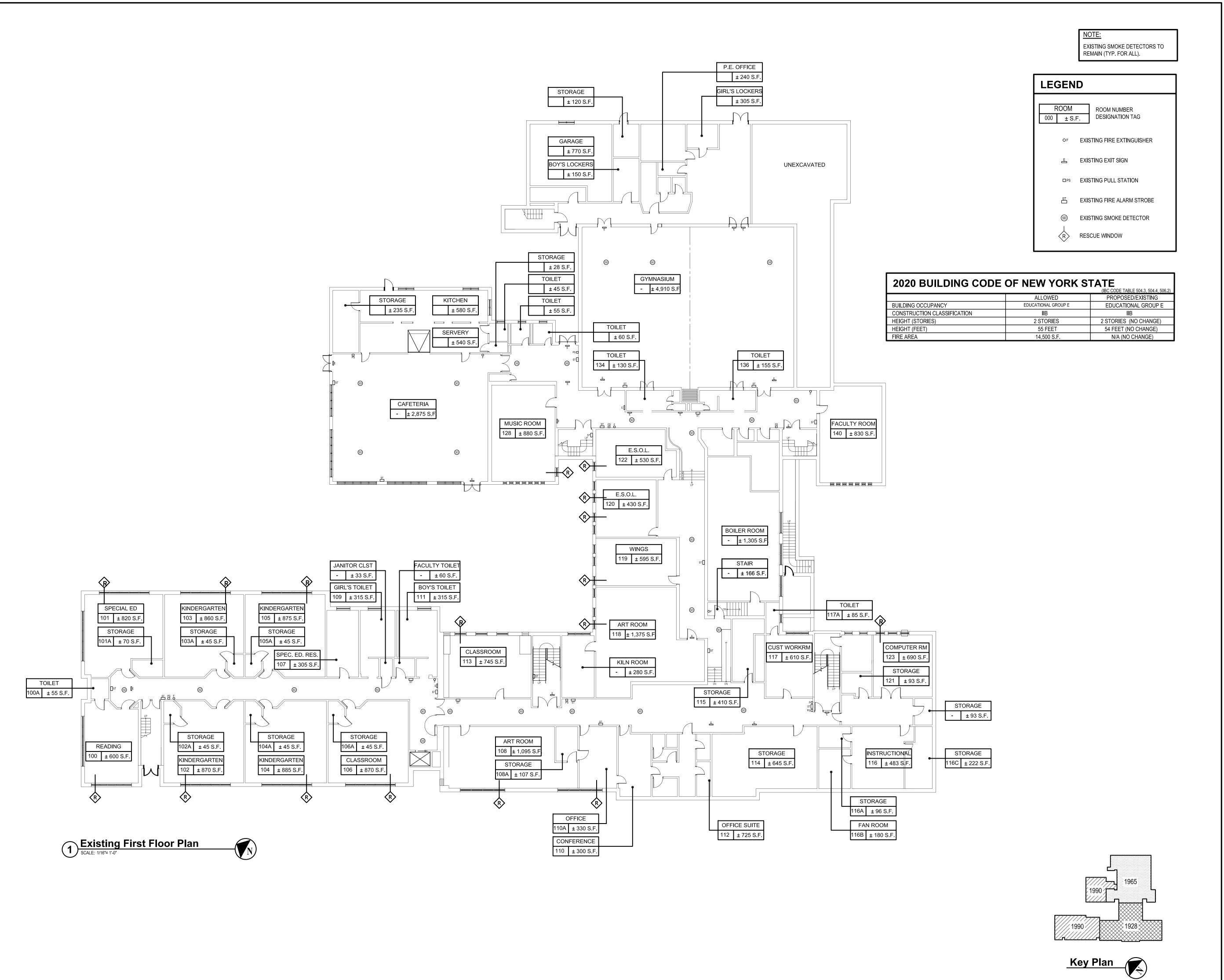
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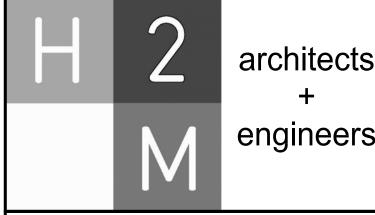
ALL CONTRACTS

FINAL BID DOCUMENT

GENERAL NOTES, MAPS, DRAWINGS LIST, STAGING PLAN, EXIT PLAN AND LEGENDS

G000.00





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ONSULTANTS:

MARK	DATE	DESCRIPTION
-	02-03-2023	FINAL BID DOCUMENT



White Plains City School District

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

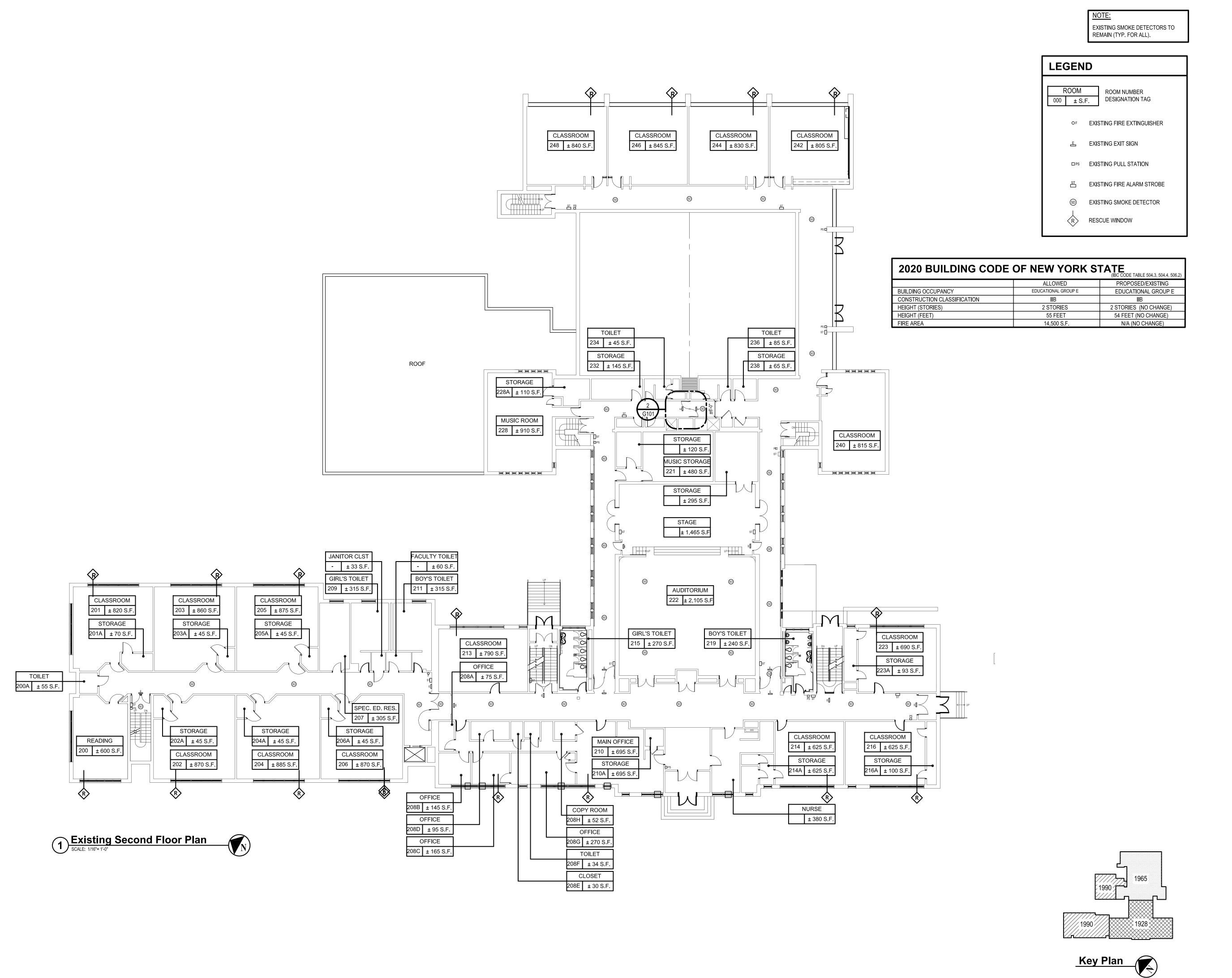
CONTRACT G
GENERAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

EXISTING FIRST FLOOR PLAN

G100.00





engineers

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MARK	DATE	DESCRIPTION
-	02-03-2023	FINAL BID DOCUMENT



FEBRUARY 2023 AS SHOWN

White Plains City School District

UV Replacements at the George Washington Elementary School



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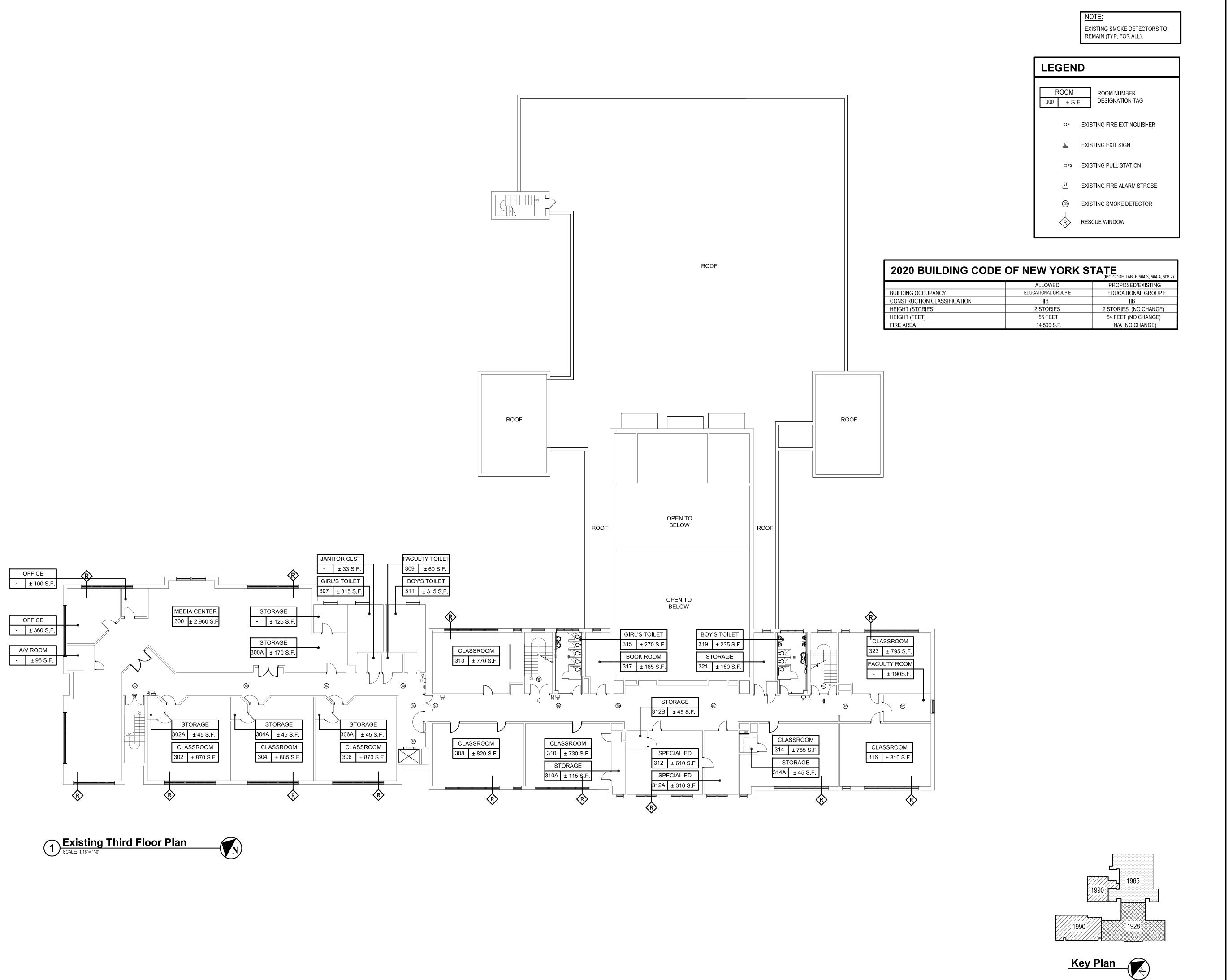
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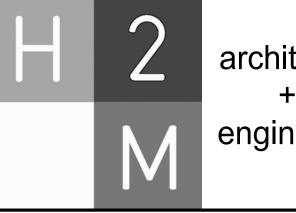
CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

EXISTING SECOND FLOOR PLAN

G101.00





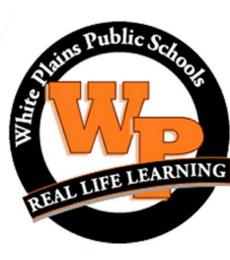
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MARK	DATE	DESCRIPTION
-	02-03-2023	FINAL BID DOCUMENT



White Plains City School District

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

CONTRACT G GENERAL CONSTRUCTION

FINAL BID DOCUMENT

EXISTING THIRD FLOOR PLAN

G102.00

A ==	/IATIONS
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BFW	BOILER FEED WATER
BTU	BRITISH THERMAL UNIT
CF	CHEMICAL FEED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
COMM.	COMMUNICATION
CR	CONDENSATE RETURN
CV	CONTROL VALVE
(D)	DEMOLISH
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
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
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
M	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
	TYPICAL
TVD	VARIABLE FREQUENCY DRIVE
VFD	I VAINALL LIST COLUMN TO COMPANY
VFD	
VFD W	WIDTH
VFD	

DUCTWORK LEGEND					
SYMBOL	ABBREV	DESCRIPTION			
		DUCTWORK BRANCH CONNECTION			
	VD	VOLUME DAMPER			
	CD	ROUND FACE SUPPLY DIFFUSER			
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGIST			
	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER			
אם בא	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER			
	FC	FLEXIBLE CONNECTION			
		TURNING VANES			
M		RECTANGULAR TO ROUND TRANSITION			
	AL	ACOUSTICAL LINING			
		END CAP			
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)			
		SUPPLY DUCT DROP (TURN DOWN)			
		RETURN/EXHAUST DUCT DROP (TURN DOWN)			
		SUPPLY DUCT RISE			
		RETURN/EXHAUST DUCT RISE			
DSD ———	DSD	DUCT SMOKE DETECTOR			
M	MD	MOTORIZED DAMPER WITH ACTUATOR			
OR OR	AD	ACCESS DOOR			
FD/AD	FD/AD	FIRE DAMPER WITH ACCESS DOOR			
FSD/AD	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR			
·/////		FAN			
		WORK TO BE REMOVED			
		POINT OF DISCONNECTION FROM EXISTING			
		POINT OF CONNECTION TO EXISTING			
CONTROLS LEGEND					
SYMBOL	ABBREV	DESCRIPTION			

CARBON MONOXIDE SENSOR

NATURAL GAS/METHANE SENSOR

COMBINATION TEMPERATURE/HUMIDITY SENSOR

PRESSURE SENSOR

THERMOSTAT

AQUASTAT

REMOTE HORN/STROBE

©

P

NG

T

T/H

A

PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION
		NEW WORK
с— o—		PIPING DOWN/ PIPING UP
— [BALL VALVE WITH HOSE END CONNECTION
<u> </u>	TH	THERMOMETER
<u> </u>	U	UNION
	FPC	FLEXIBLE PIPE CONNECTION
—		DIRECTION OF FLOW
一於一陸	PSR	PRESSURE SAFETY AND RELIEF VALVE
→ \$ —	PRV	PRESSURE REDUCING VALVE
<u> </u>	BV	BALL VALVE
— 6 —	ВА	BALANCING VALVE
	BFV	BUTTERFLY VALVE
_ <u>_</u>		TEMPERATURE SENSOR WITH THERMOWELL
- ⋈	GA	GATE VALVE
→ ₩ →	GB	GLOBE VALVE
A	AV	AUTOMATIC AIR VENT
	cv	2-WAY ELECTRONIC CONTROL VALVE
───	CV	3-WAY ELECTRONIC CONTROL VALVE
	CV	2-WAY PNEUMATIC CONTROL VALVE
───	cv	3-WAY PNEUMATIC CONTROL VALVE
	STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
₩ >	FD	FLOOR DRAIN
S		AIR SEPARATOR
——⊗ <mark>F&T</mark>		STEAM TRAPS (INDICATE TYPE)
→ → →	СН	CHECK VALVE
<u> </u>	PG	PRESSURE GAUGE WITH GAUGE COCK
——————————————————————————————————————	RED	REDUCER
ı⊢	со	CLEANOUT END CAP
<u> </u>		PIPE GUIDE
X		PIPE ANCHOR
		CAPPED PIPE
		PUMP
· ///// ,		WORK TO BE REMOVED
•		POINT OF DISCONNECTION FROM EXISTING
•		POINT OF CONNECTION TO EXISTING
<u>+</u>	TDV	TRIPLE DUTY VALVE
<u> </u>		I

GENERAL NOTES

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- 2. THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS.
- 3. PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 PLUMBING CODE, 2020 FIRE CODE, 2020 MECHANICAL CODE, 2020 ENERGY CONSERVATION CONSTRUCTION CODE, AND 2020 FUEL GAS CODE OF NEW YORK CITY AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- 4. COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL INSTALLATIONS
- 5. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE DAMPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR DUCTWORK AS PER THE MECHANICAL CODE OF NEW YORK CITY. (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED CONSTRUCTION.)
- 6. DO NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S REQUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS SHALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY
- 7. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- 8. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- 9. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR EQUIPMENT IS REQUIRED.
- 10. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 11. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE MANUFACTURER CERTIFIED ACCURACY.
- 12. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 13. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION
- 14. COMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS APPLIED.
- 15. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND BALANCING IN ACCORDANCE WITH THE SPECIFICATIONS.
- 16. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- 17. PROVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 INCHES BEYOND THE EQUIPMENT ON ALL SIDES.
- 18. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- 19. FURNISH AND INSTALL ALL NECESSARY CONTROL WIRING, CONDUIT, AND ACCESSORIES AS REQUIRED TO PROVIDE FULLY FUNCTIONING SYSTEMS AND SEQUENCES OF OPERATION.
- 20. PROVIDE ALL BMS HARDWARE (FIELD CONTROLLERS, EXPANSION MODULES, SENSORS, ETC), SOFTWARE UPGRADES AND PROGRAMMING AS REQUIRED TO PROVIDE A COMPLETE FUNCTIONING SYSTEM TO PERFORM THE SPECIFIED AND REQUIRED CONTROL SEQUENCES.

WORK IN EXISTING AREAS

- 3. EXISTING CONDITIONS, INCLUDING EQUIPMENT, DUCT AND PIPE SIZES AND LOCATIONS, INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- 4. CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED FOR THE PERFORMANCE OF THE WORK. PERFORM ALL CUTTING AND PATCHING WORK IN A MANNER SUCH THAT ANY EXISTING WARRANTEES/GUARANTEES ARE NOT VOIDED. USE QUALIFIED PERSONNEL IN PERFORMANCE OF THE WORK.

LEGENDS/ABBREVIATIONS NOTES

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



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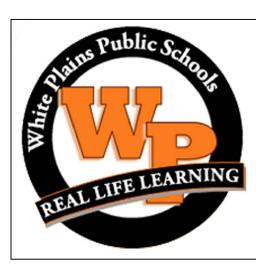
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White Plains City School District

UV Replacements at the George Washington Elementary School



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CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

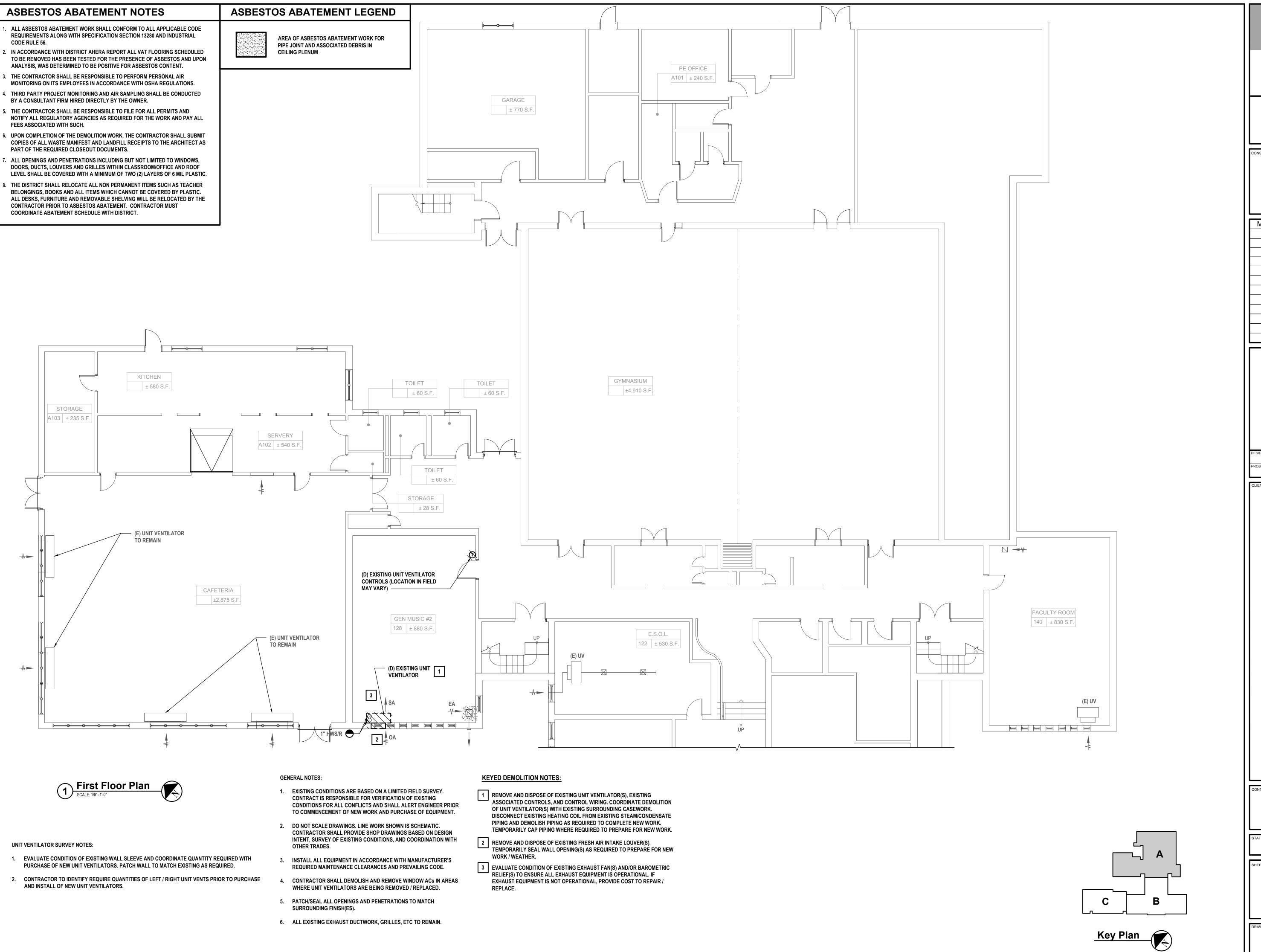
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MECHANICAL GENERAL NOTES AND LEGENDS

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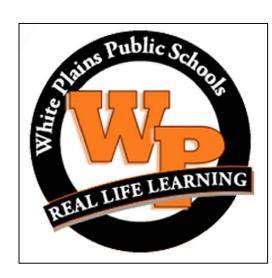
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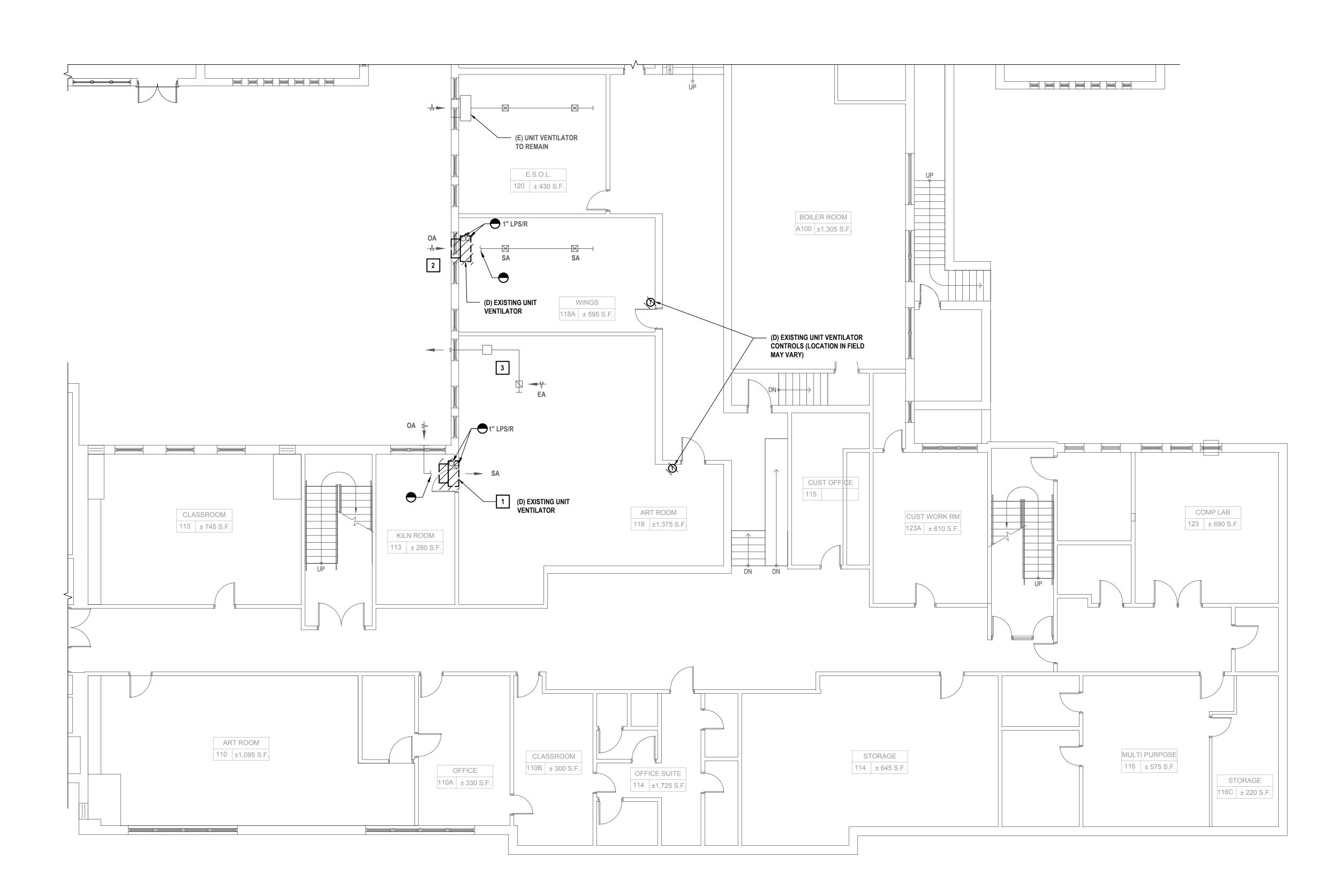
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HEET TITLE

MECHANICAL DEMOLITION FIRST FLOOR PLAN PART A

MD 110A.00





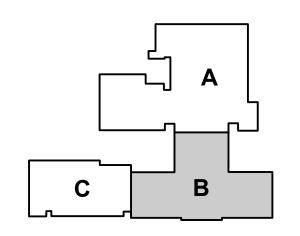
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GENERAL NOTES:

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KEYED DEMOLITION NOTES:

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CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

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HEET TITLE

MECHANICAL DEMOLITION FIRST FLOOR PLAN PART B

MD 110B.00



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UNIT VENTILATOR SURVEY NOTES:

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- 2. CONTRACTOR TO IDENTIFY REQUIRE QUANTITIES OF LEFT / RIGHT UNIT VENTS PRIOR TO PURCHASE AND INSTALL OF NEW UNIT VENTILATORS.

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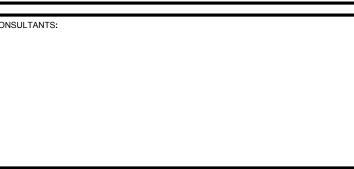
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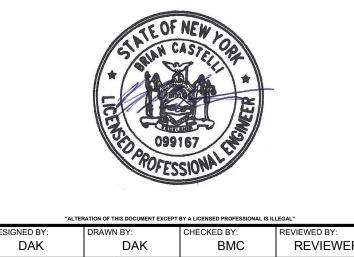


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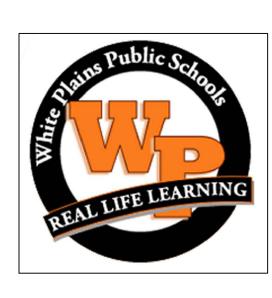
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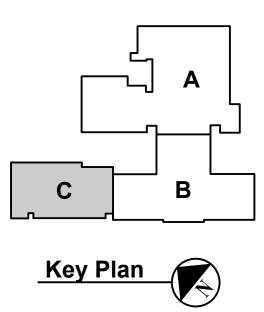
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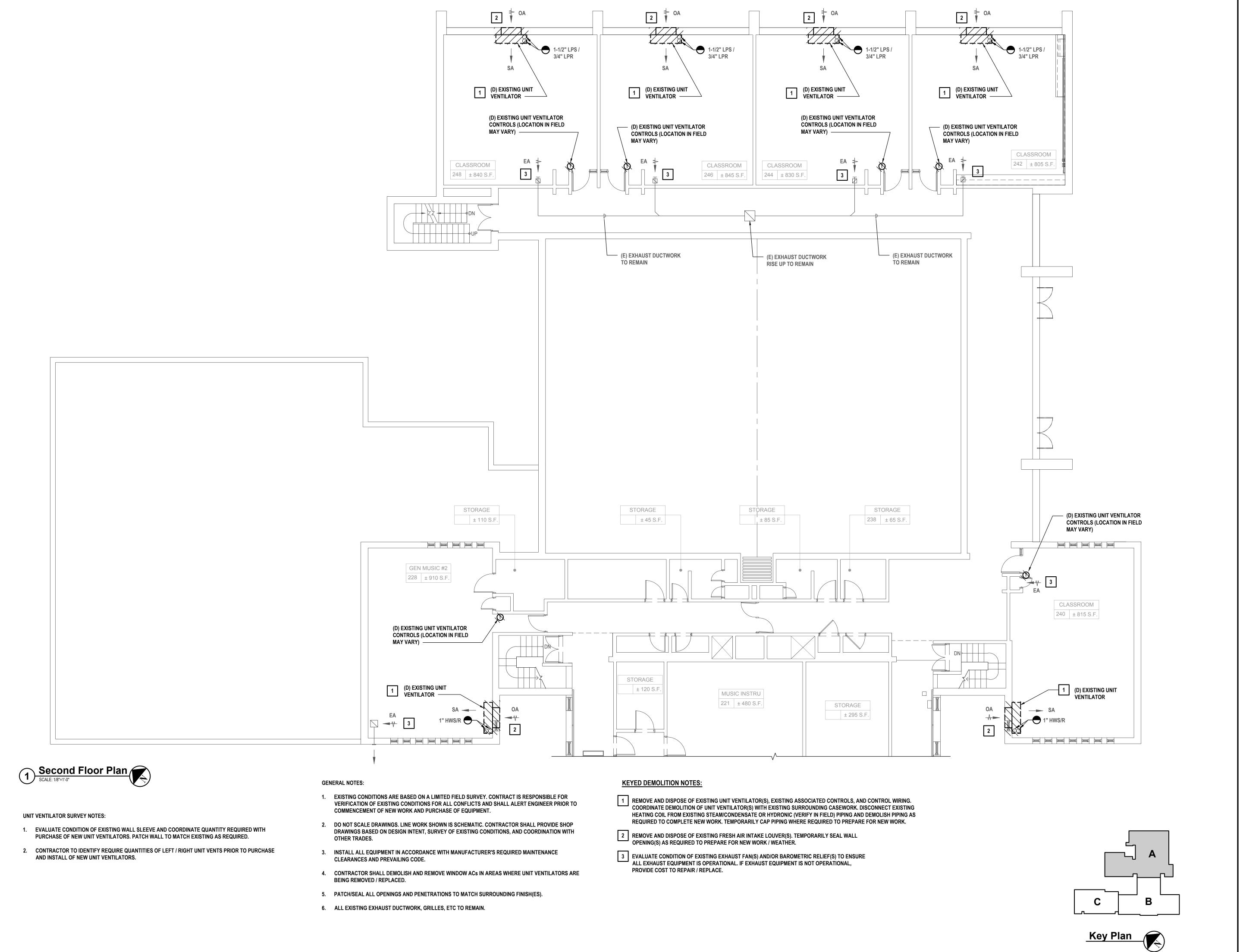
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MECHANICAL DEMOLITION FIRST FLOOR PLAN PART C

MD 110C.00



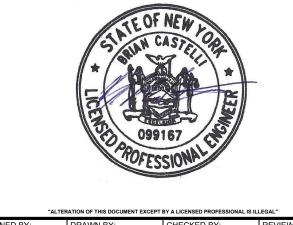


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White Plains City School District

UV Replacements at the George Washington Elementary School



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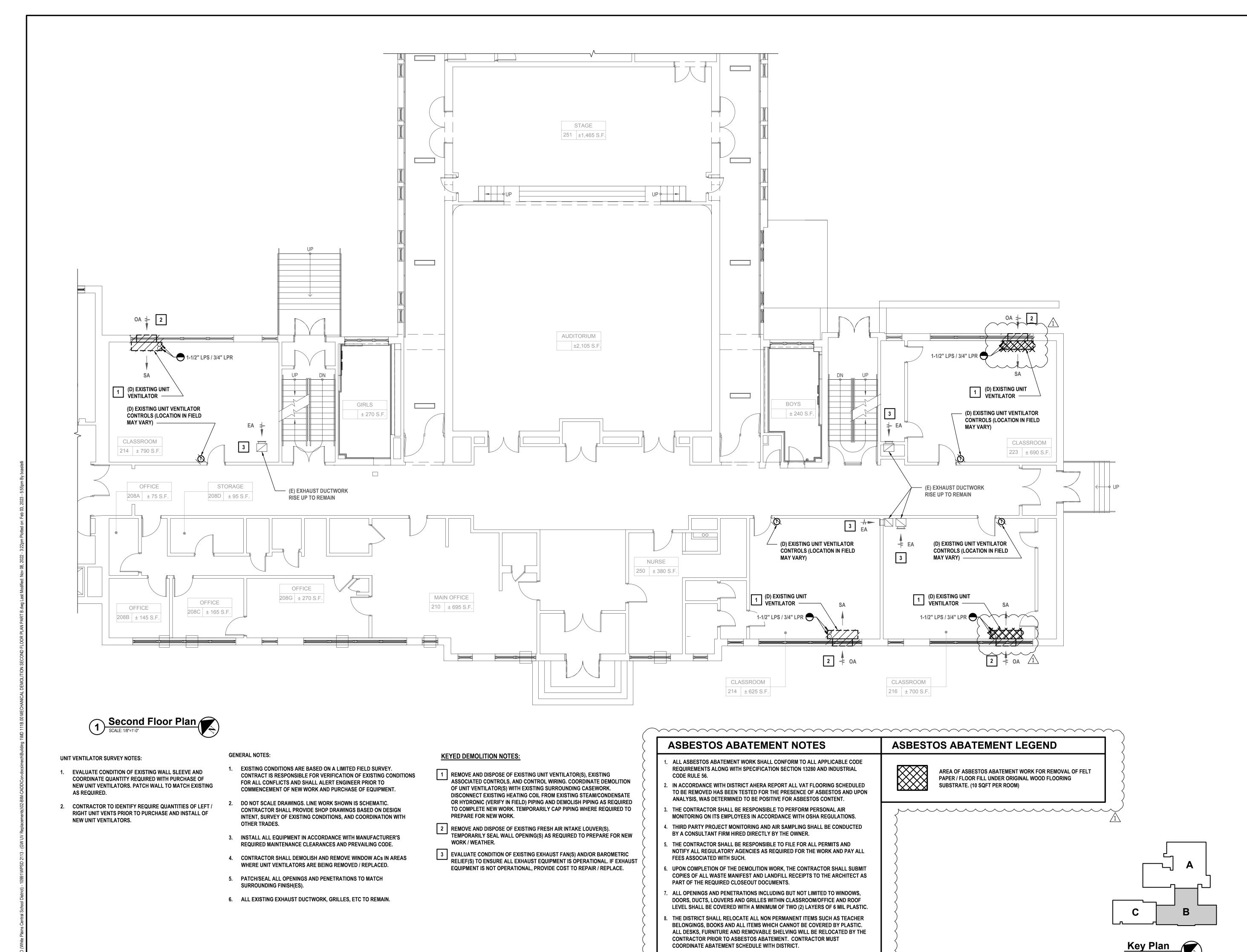
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SHEET TITLE

MECHANICAL DEMOLITION SECOND FLOOR PLAN PART A

MD 111A.00



COORDINATE ABATEMENT SCHEDULE WITH DISTRICT.

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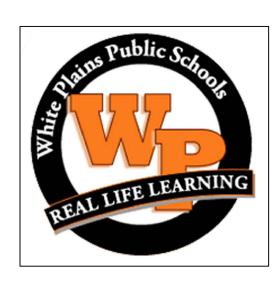
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White Plains City School District

UV Replacements at the George Washington **Elementary School**



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HEATING VENTILATION AND AIR CONDITIONING

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MECHANICAL DEMOLITION **SECOND FLOOR PLAN PART**

MD 111B.00



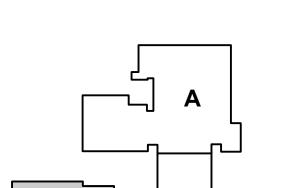
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White Plains City School District

UV Replacements at the George Washington Elementary School



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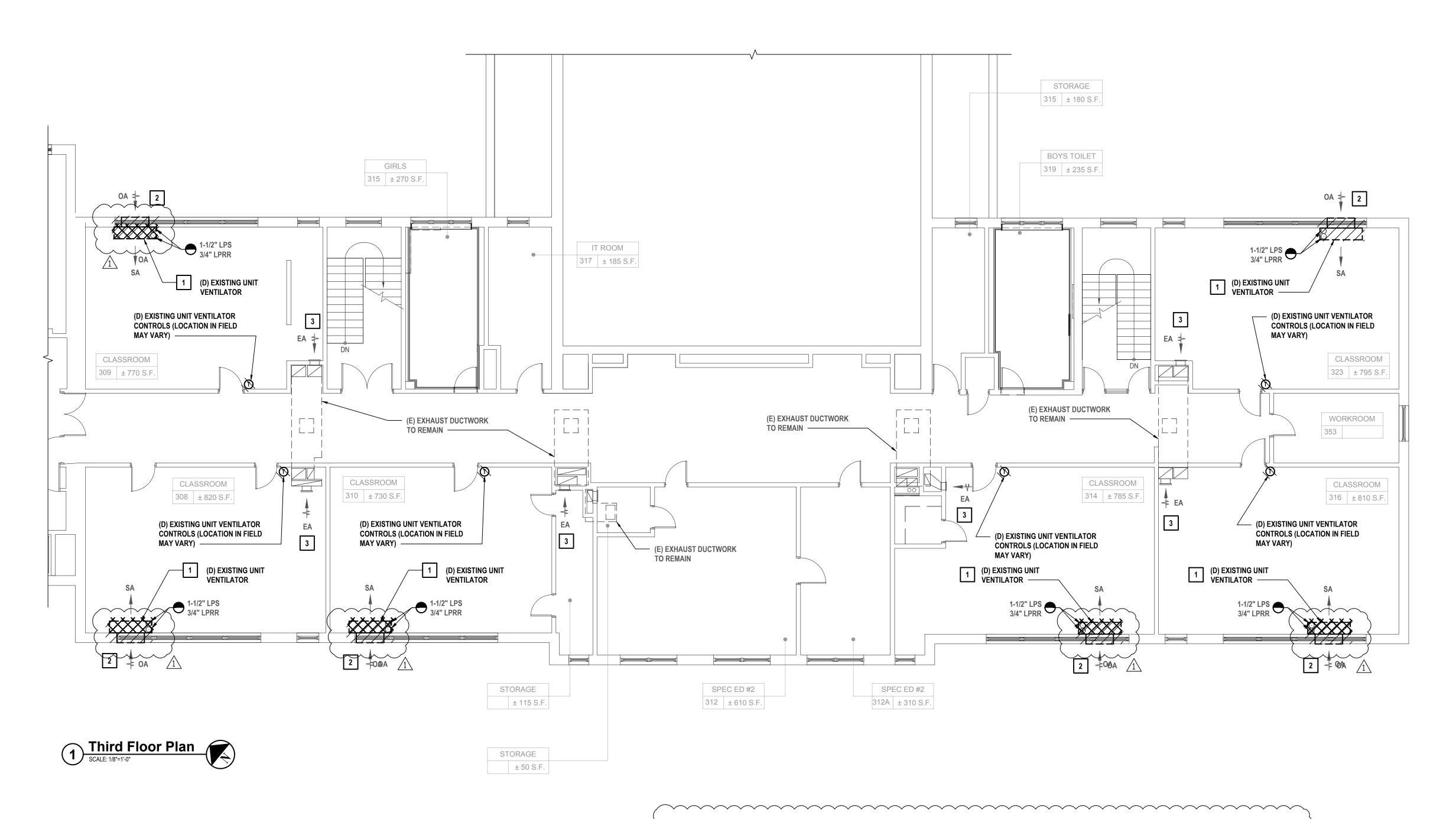
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CONDITIONING

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SHEET T

MECHANICAL DEMOLITION SECOND FLOOR PLAN PART C

MD 111C.00



- 1. EVALUATE CONDITION OF EXISTING WALL SLEEVE AND COORDINATE QUANTITY REQUIRED WITH PURCHASE OF NEW UNIT VENTILATORS. PATCH WALL TO MATCH EXISTING AS REQUIRED.
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ASBESTOS ABATEMENT NOTES

- 1. ALL ASBESTOS ABATEMENT WORK SHALL CONFORM TO ALL APPLICABLE CODE REQUIREMENTS ALONG WITH SPECIFICATION SECTION 13280 AND INDUSTRIAL CODE RULE 56.
- 2. IN ACCORDANCE WITH DISTRICT AHERA REPORT ALL VAT FLOORING SCHEDULED TO BE REMOVED HAS BEEN TESTED FOR THE PRESENCE OF ASBESTOS AND UPON ANALYSIS, WAS DETERMINED TO BE POSITIVE FOR ASBESTOS CONTENT.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM PERSONAL AIR
- MONITORING ON ITS EMPLOYEES IN ACCORDANCE WITH OSHA REGULATIONS.

 4. THIRD PARTY PROJECT MONITORING AND AIR SAMPLING SHALL BE CONDUCTED
- THIRD PARTY PROJECT MONITORING AND AIR SAMPLING SHALL BE CONDUCTED BY A CONSULTANT FIRM HIRED DIRECTLY BY THE OWNER.
 THE CONTRACTOR SHALL BE RESPONSIBLE TO FILE FOR ALL PERMITS AND
- FEES ASSOCIATED WITH SUCH.

 6. UPON COMPLETION OF THE DEMOLITION WORK, THE CONTRACTOR SHALL SUBMIT COPIES OF ALL WASTE MANIFEST AND LANDFILL RECEIPTS TO THE ARCHITECT AS

NOTIFY ALL REGULATORY AGENCIES AS REQUIRED FOR THE WORK AND PAY ALL

- PART OF THE REQUIRED CLOSEOUT DOCUMENTS.

 ALL OPENINGS AND PENETRATIONS INCLUDING BUT NOT LIMITED TO WINDOWS, DOORS, DUCTS, LOUVERS AND GRILLES WITHIN CLASSROOM/OFFICE AND ROOF LEVEL SHALL BE COVERED WITH A MINIMUM OF TWO (2) LAYERS OF 6 MIL PLASTIC.
- 8. THE DISTRICT SHALL RELOCATE ALL NON PERMANENT ITEMS SUCH AS TEACHER BELONGINGS, BOOKS AND ALL ITEMS WHICH CANNOT BE COVERED BY PLASTIC. ALL DESKS, FURNITURE AND REMOVABLE SHELVING WILL BE RELOCATED BY THE CONTRACTOR PRIOR TO ASBESTOS ABATEMENT. CONTRACTOR MUST COORDINATE ABATEMENT SCHEDULE WITH DISTRICT.

ASBESTOS ABATEMENT LEGEND



AREA OF ASBESTOS ABATEMENT WORK FOR REMOVAL OF FELT PAPER / FLOOR FILL UNDER ORIGINAL WOOD FLOORING SUBSTRATE. (10 SQFT PER ROOM)

C B





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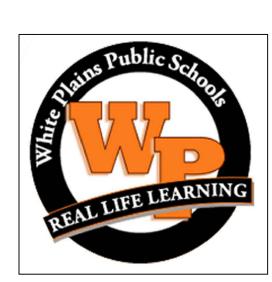
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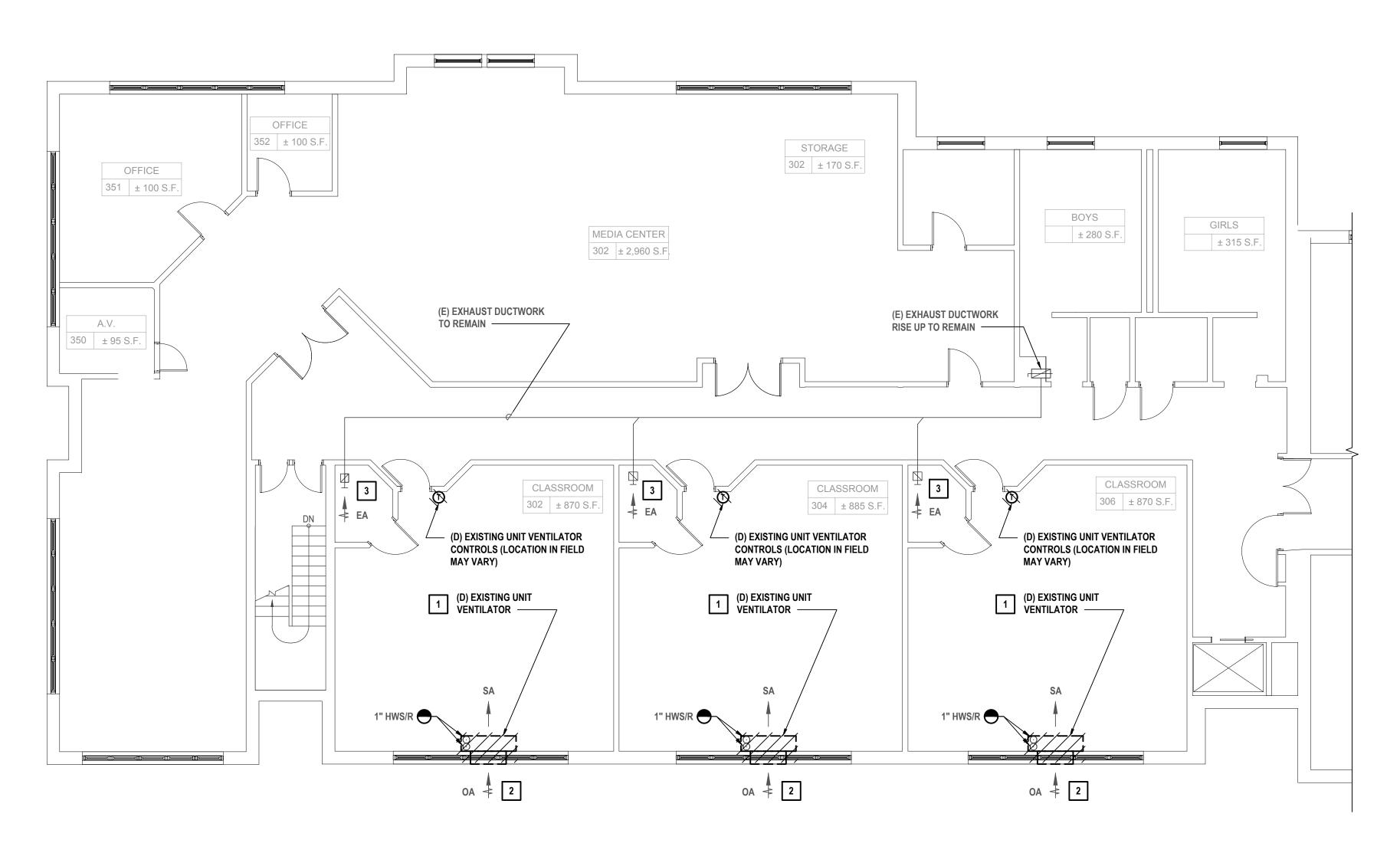
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MECHANICAL DEMOLITION THIRD FLOOR PLAN PART B

MD 112B.00





- 1. EVALUATE CONDITION OF EXISTING WALL SLEEVE AND COORDINATE QUANTITY REQUIRED WITH PURCHASE OF NEW UNIT VENTILATORS. PATCH WALL TO MATCH EXISTING AS REQUIRED.
- 2. CONTRACTOR TO IDENTIFY REQUIRE QUANTITIES OF LEFT / RIGHT UNIT VENTS PRIOR TO PURCHASE AND INSTALL OF NEW UNIT VENTILATORS.

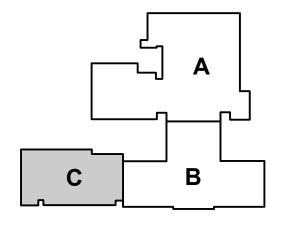
GENERAL NOTES:

- 1. EXISTING CONDITIONS ARE BASED ON A LIMITED FIELD SURVEY. CONTRACT IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS FOR ALL CONFLICTS AND SHALL ALERT ENGINEER PRIOR TO COMMENCEMENT OF NEW WORK AND PURCHASE OF EQUIPMENT.
- 2. DO NOT SCALE DRAWINGS. LINE WORK SHOWN IS SCHEMATIC. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON DESIGN INTENT, SURVEY OF EXISTING CONDITIONS, AND COORDINATION WITH
- 3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIRED MAINTENANCE CLEARANCES AND PREVAILING CODE.
- 4. CONTRACTOR SHALL DEMOLISH AND REMOVE WINDOW ACs IN AREAS WHERE UNIT VENTILATORS ARE BEING REMOVED / REPLACED.
- 5. PATCH/SEAL ALL OPENINGS AND PENETRATIONS TO MATCH SURROUNDING FINISH(ES).
- 6. ALL EXISTING EXHAUST DUCTWORK, GRILLES, ETC TO REMAIN.

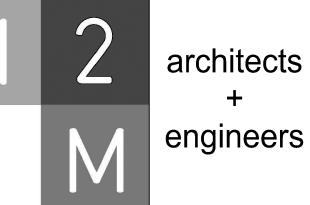
KEYED DEMOLITION NOTES:

- COORDINATE DEMOLITION OF UNIT VENTILATOR(S) WITH EXISTING SURROUNDING CASEWORK. DISCONNECT EXISTING HEATING COIL FROM EXISTING STEAM/CONDENSATE OR HYDRONIC (VERIFY IN FIELD) PIPING AND DEMOLISH PIPING AS REQUIRED TO COMPLETE NEW WORK. TEMPORARILY CAP PIPING WHERE REQUIRED TO PREPARE FOR NEW WORK.
- EVALUATE CONDITION OF EXISTING EXHAUST FAN(S) AND/OR BAROMETRIC RELIEF(S) TO ENSURE ALL EXHAUST EQUIPMENT IS OPERATIONAL. IF EXHAUST EQUIPMENT IS NOT OPERATIONAL,

- 1 REMOVE AND DISPOSE OF EXISTING UNIT VENTILATOR(S), EXISTING ASSOCIATED CONTROLS, AND CONTROL WIRING.
- REMOVE AND DISPOSE OF EXISTING FRESH AIR INTAKE LOUVER(S). TEMPORARILY SEAL WALL OPENING(S) AS REQUIRED TO PREPARE FOR NEW WORK / WEATHER.
- PROVIDE COST TO REPAIR / REPLACE.







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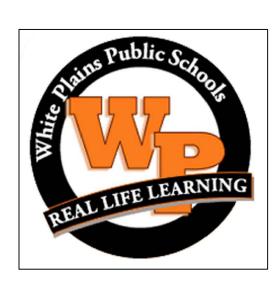
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White Plains City School District

UV Replacements at the George Washington **Elementary School**



100 Orchard Street White Plains NY, 10604

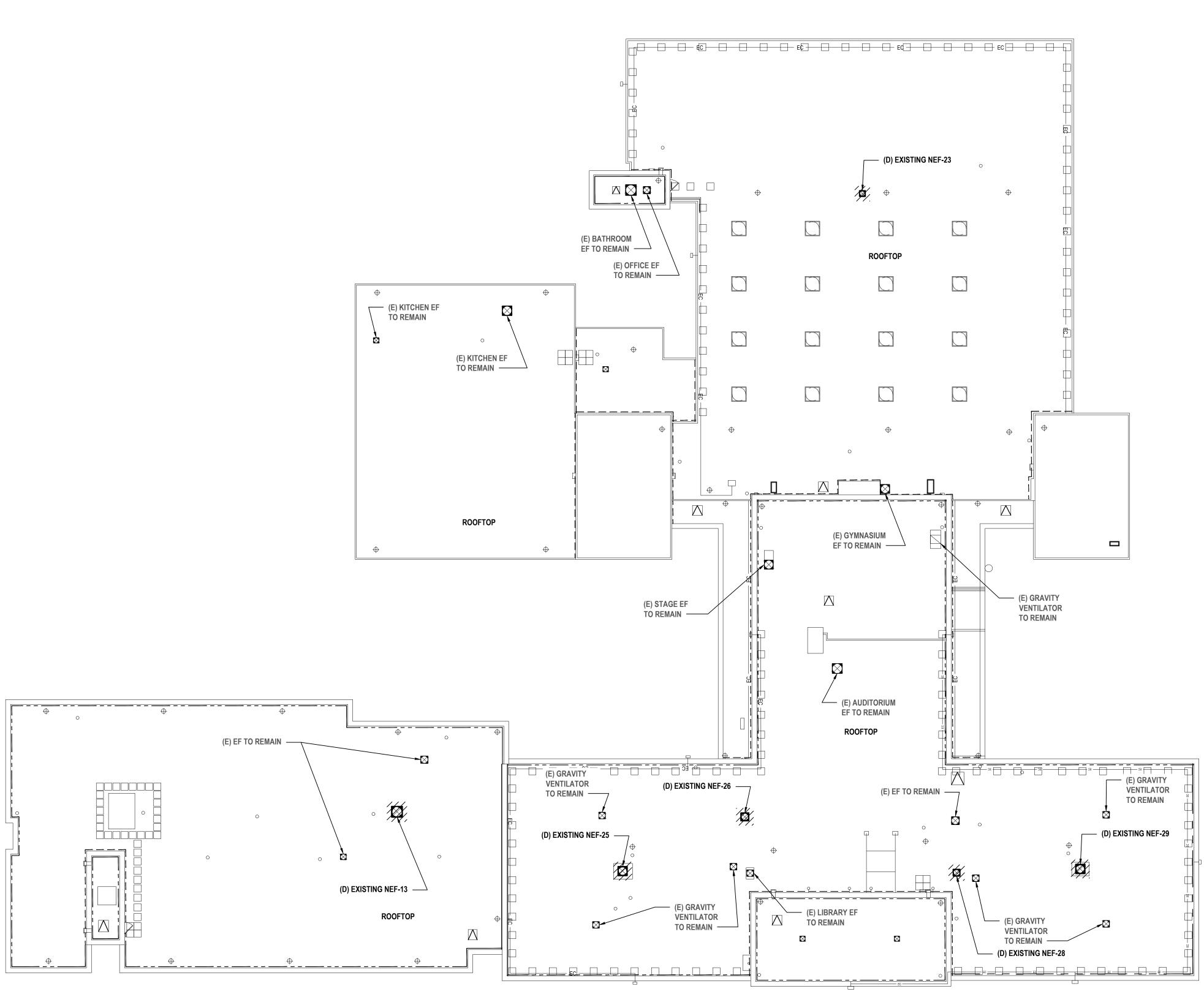
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CONTRACT H
HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL DEMOLITION THIRD FLOOR PLAN PART C

MD 112C.00

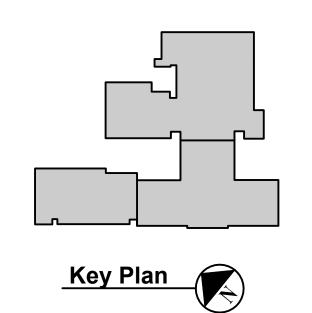


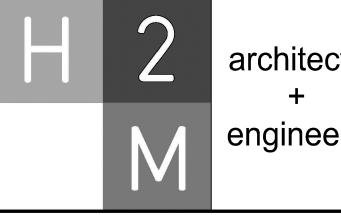


DEMOLITION NOTES:

- DEMOLISH AND REMOVE EXISTING EXHAUST FAN AND EXISTING DAMPER.

 PROVIDE AND INSTALL COVERINGS TO PROTECT ROOF OPENINGS AS REQUIRED, ROOF OF
- 2. PROVIDE AND INSTALL COVERINGS TO PROTECT ROOF OPENINGS AS REQUIRED. ROOF OPENINGS SHALL NOT BE LEFT UNPROTECTED AND SUBJECT TO WEATHER AND DEBRIS DAMAGE.
- 3. CONTRACTOR SHALL PERFORM A PRE-DEMOLITION BALANCING REPORT PRIOR TO REMOVING EXISTING EXHAUST FANS. SUBMIT RESULTS OF THIS REPORT TO ENGINEER OF RECORD.

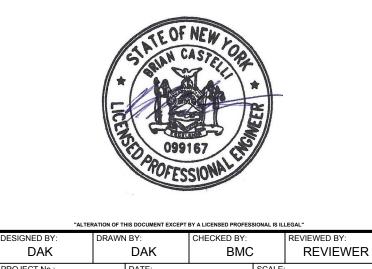




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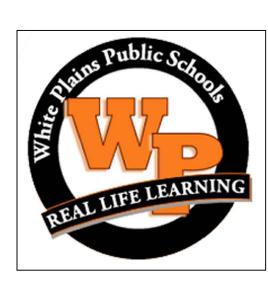
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White Plains City

School District

UV Replacements at the George Washington Elementary School



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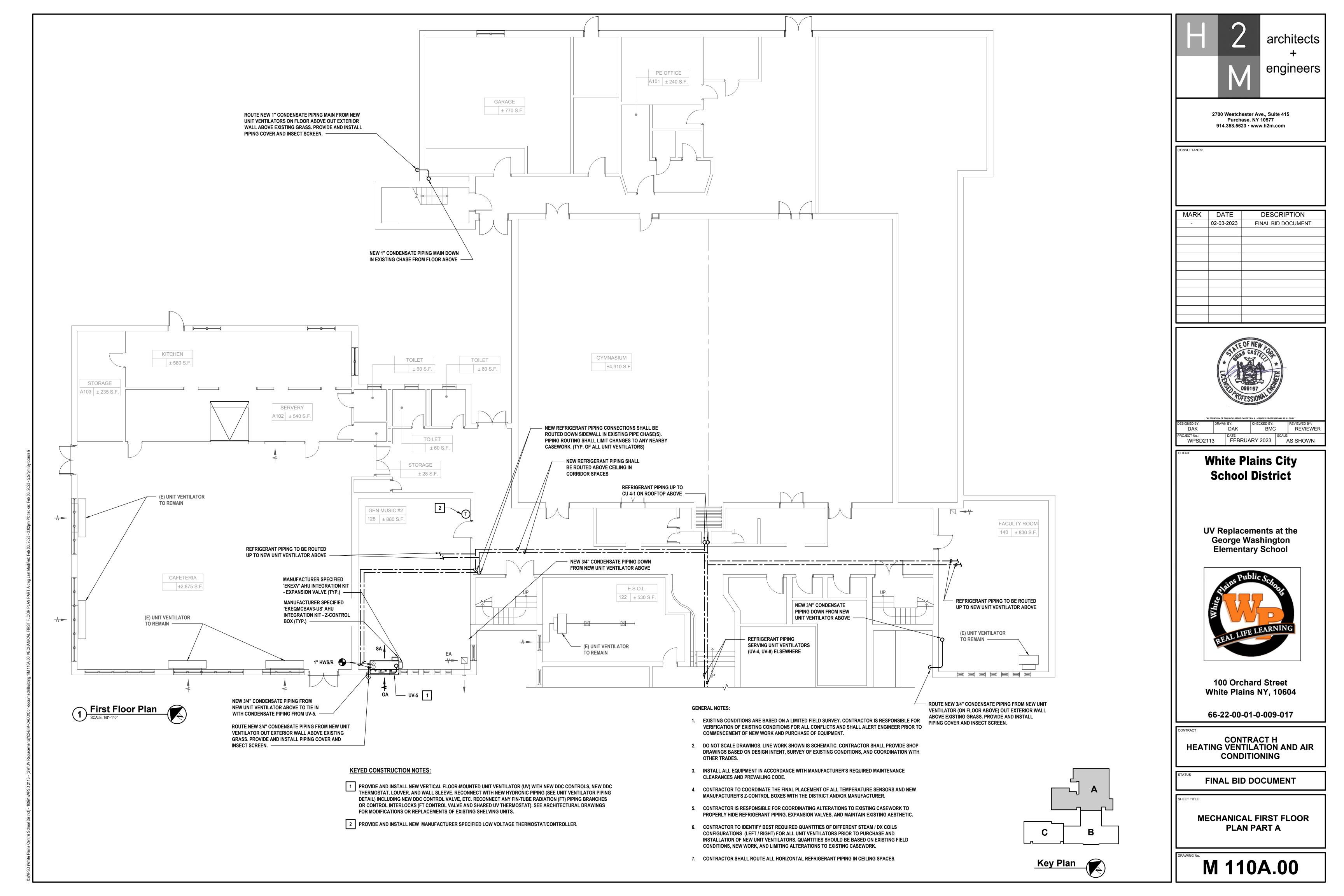
CONTRACT H
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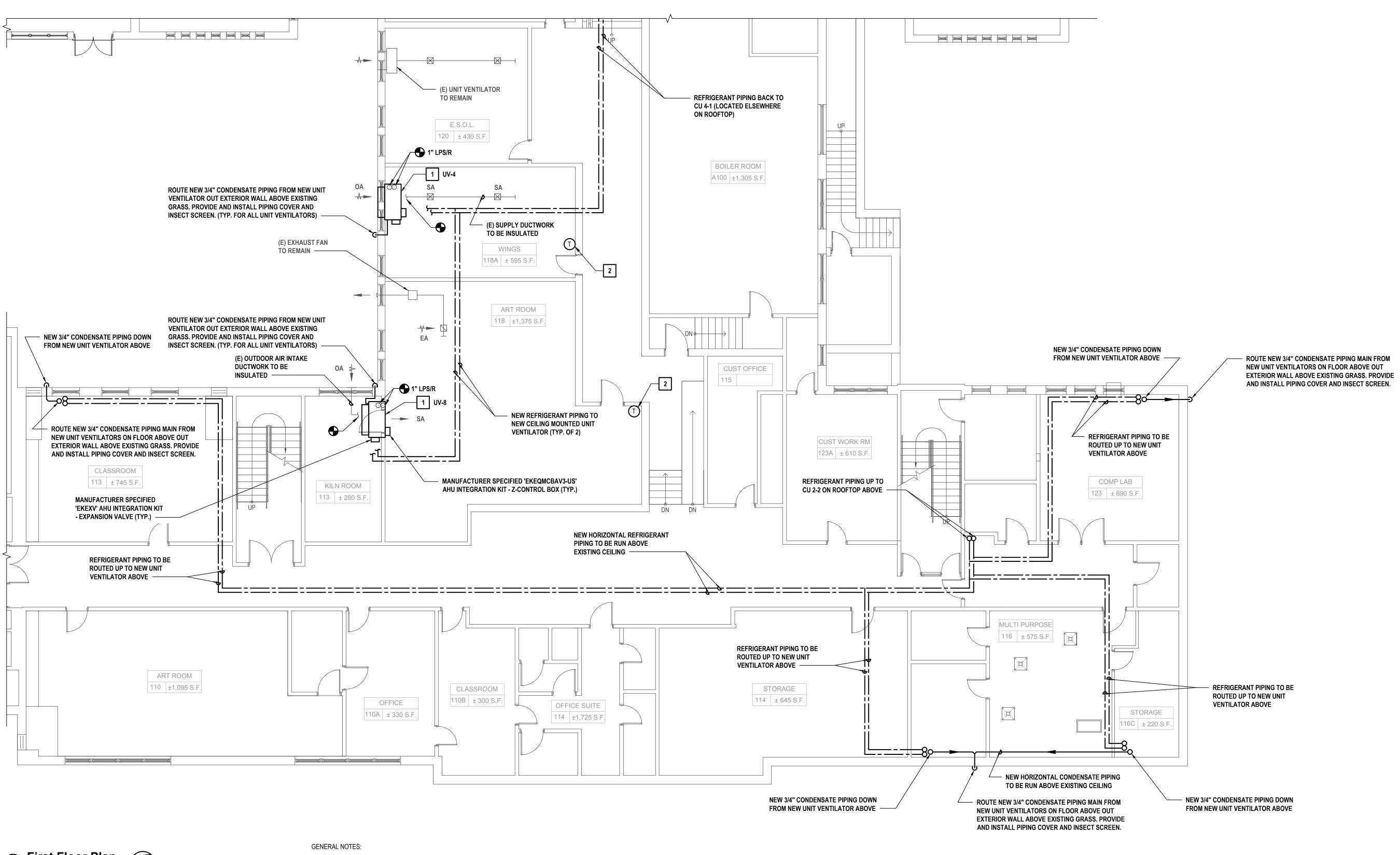
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SHEET TITLE

MECHANICAL DEMOLITION ROOF PLAN

MD 140.00



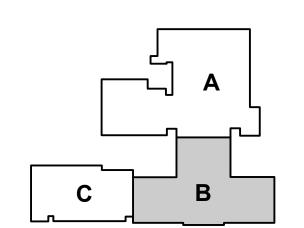




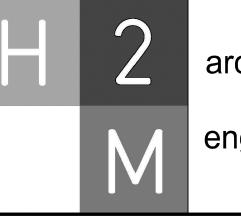
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- 7. PROVIDE AND INSTALL PIPE COVERINGS WHEREVER PIPING IS TO BE PLACED IN A VISIBLE AREA.
- 8. INTEGRATE NEW UNIT VENTILATORS' OUTDOOR AIR CONTROLS WITH EXISTING BUILDING TIMECLOCK.
- 9. INSTALL ALL REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

KEYED NOTES:

- PROVIDE AND INSTALL PIPING, FITTINGS, VALVES, ETC AS REQUIRED TO COMPLETE RECONNECTION TO EXISTING LOOP. INCORPORATE NEW UNIT VENTILATOR HEATING COIL IN NEW HYDRONIC LOOP. COORDINATE WORK WITH CASEWORK RENOVATIONS.
- PROVIDE AND INSTALL MANUFACTURER SPECIFIED LOW VOLTAGE WALL MOUNTED THERMOSTATS SERVING NEW UNIT VENTILATOR.







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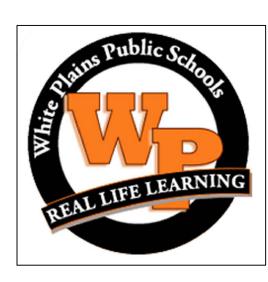
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White Plains City School District

UV Replacements at the George Washington Elementary School



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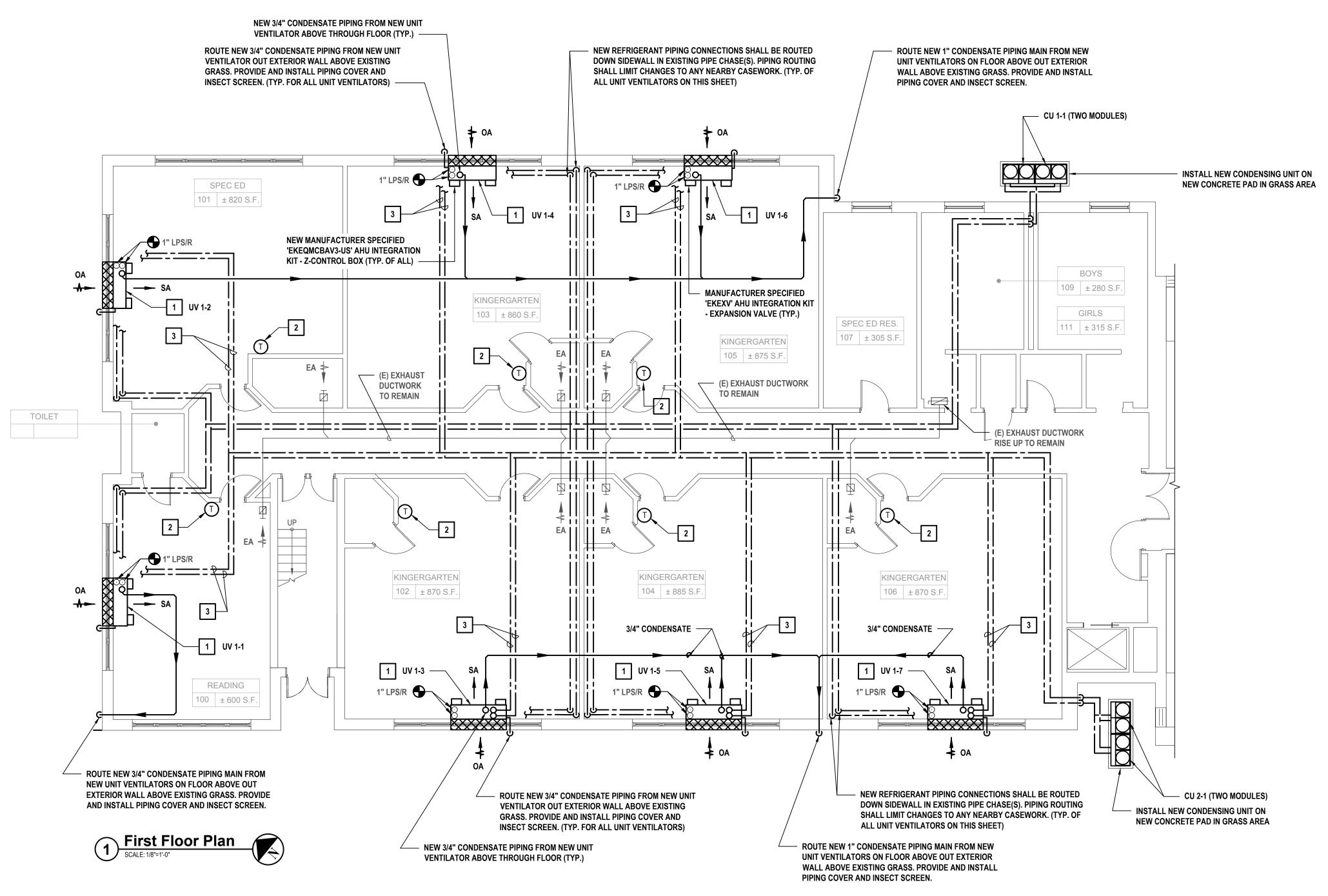
CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

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MECHANICAL FIRST FLOOR PLAN PART B

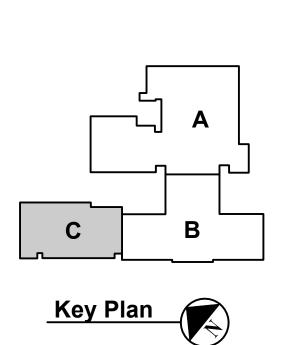
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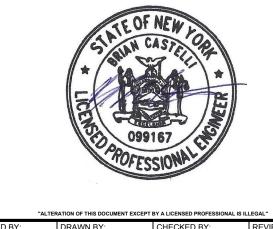
KEYED NOTES:

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- PROVIDE AND INSTALL MANUFACTURER SPECIFIED LOW VOLTAGE WALL MOUNTED THERMOSTATS SERVING NEW UNIT VENTILATOR.
- 3 ROUTE NEW REFRIGERANT PIPING FROM CU 2-1 UP TO NEW UNIT VENTILATOR ON THE FLOOR ABOVE.



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White Plains City School District

UV Replacements at the George Washington **Elementary School**



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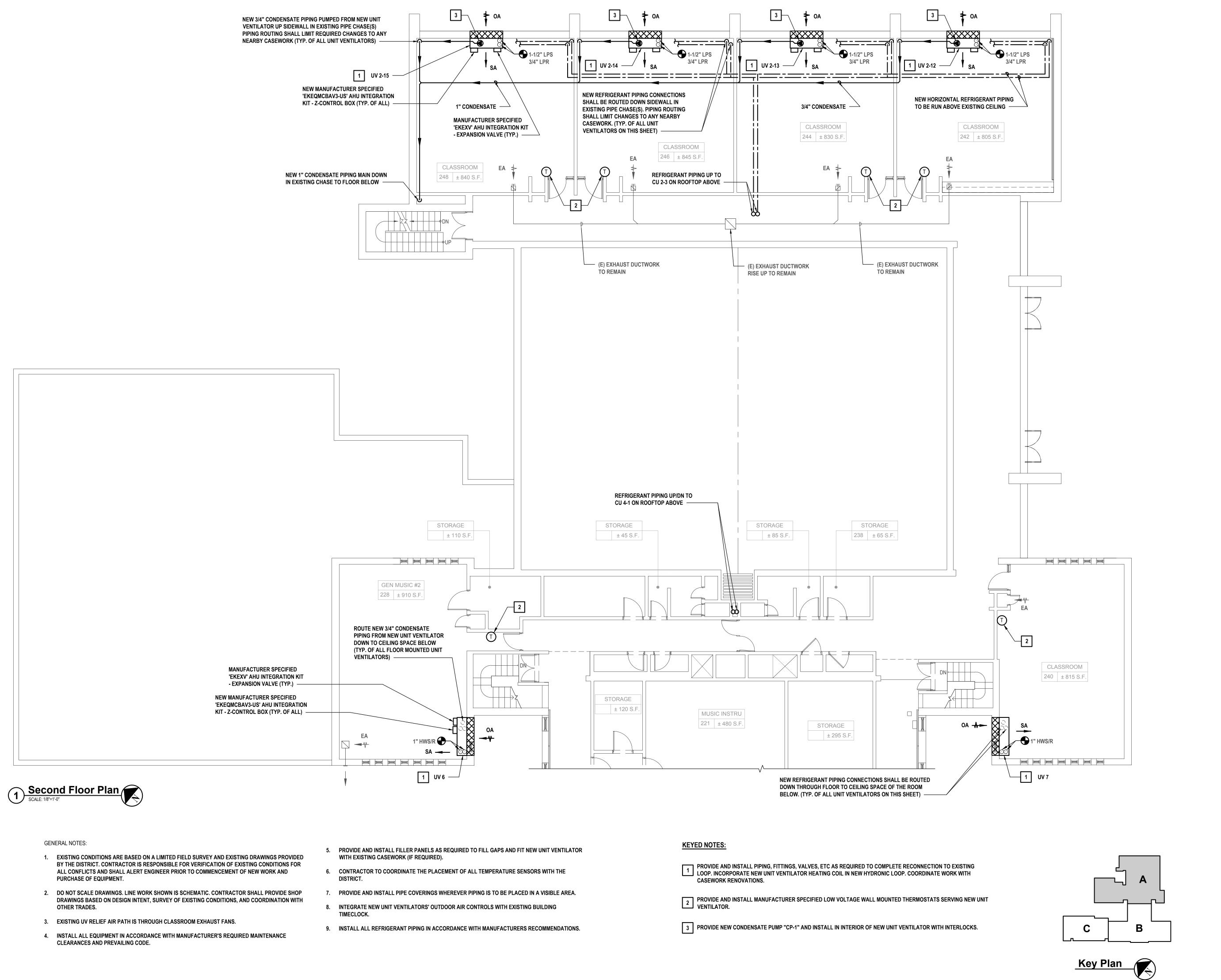
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CONTRACT H
HEATING VENTILATION AND AIR CONDITIONING

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MECHANICAL FIRST FLOOR PLAN PART C

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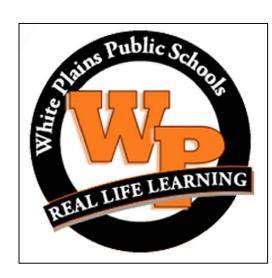
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White Plains City School District

UV Replacements at the George Washington Elementary School



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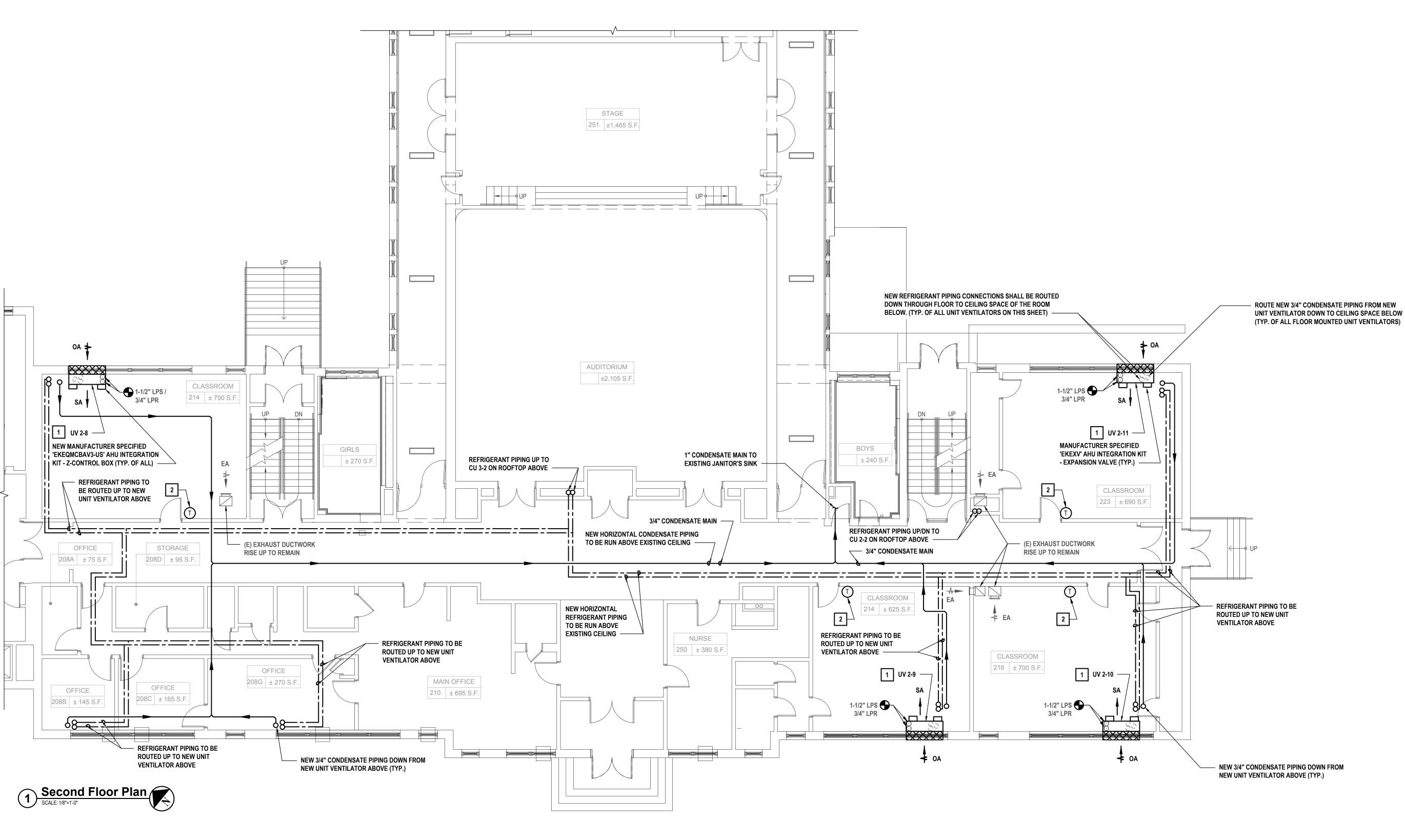
CONTRACT H
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MECHANICAL SECOND FLOOR PLAN PART A

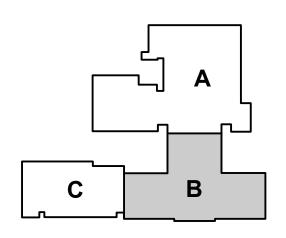
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KEYED CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW VERTICAL FLOOR-MOUNTED UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT, LOUVER, AND WALL SLEEVE. RECONNECT WITH NEW HYDRONIC PIPING (SEE UNIT VENTILATOR PIPING DETAIL) INCLUDING NEW DDC CONTROL VALVE, ETC. RECONNECT ANY FIN-TUBE RADIATION (FT) PIPING BRANCHES OR CONTROL INTERLOCKS (FT CONTROL VALVE AND SHARED UV THERMOSTAT). SEE ARCHITECTURAL DRAWINGS FOR MODIFICATIONS OR REPLACEMENTS OF EXISTING SHELVING UNITS.
- 2 PROVIDE AND INSTALL NEW MANUFACTURER SPECIFIED LOW VOLTAGE THERMOSTAT/CONTROLLER.



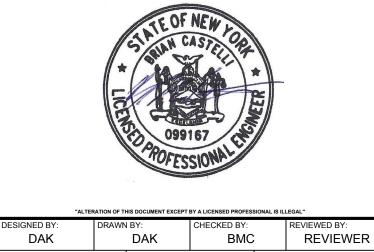




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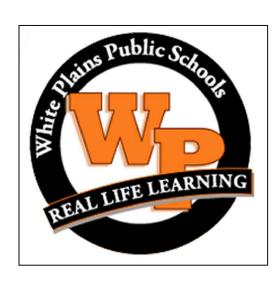
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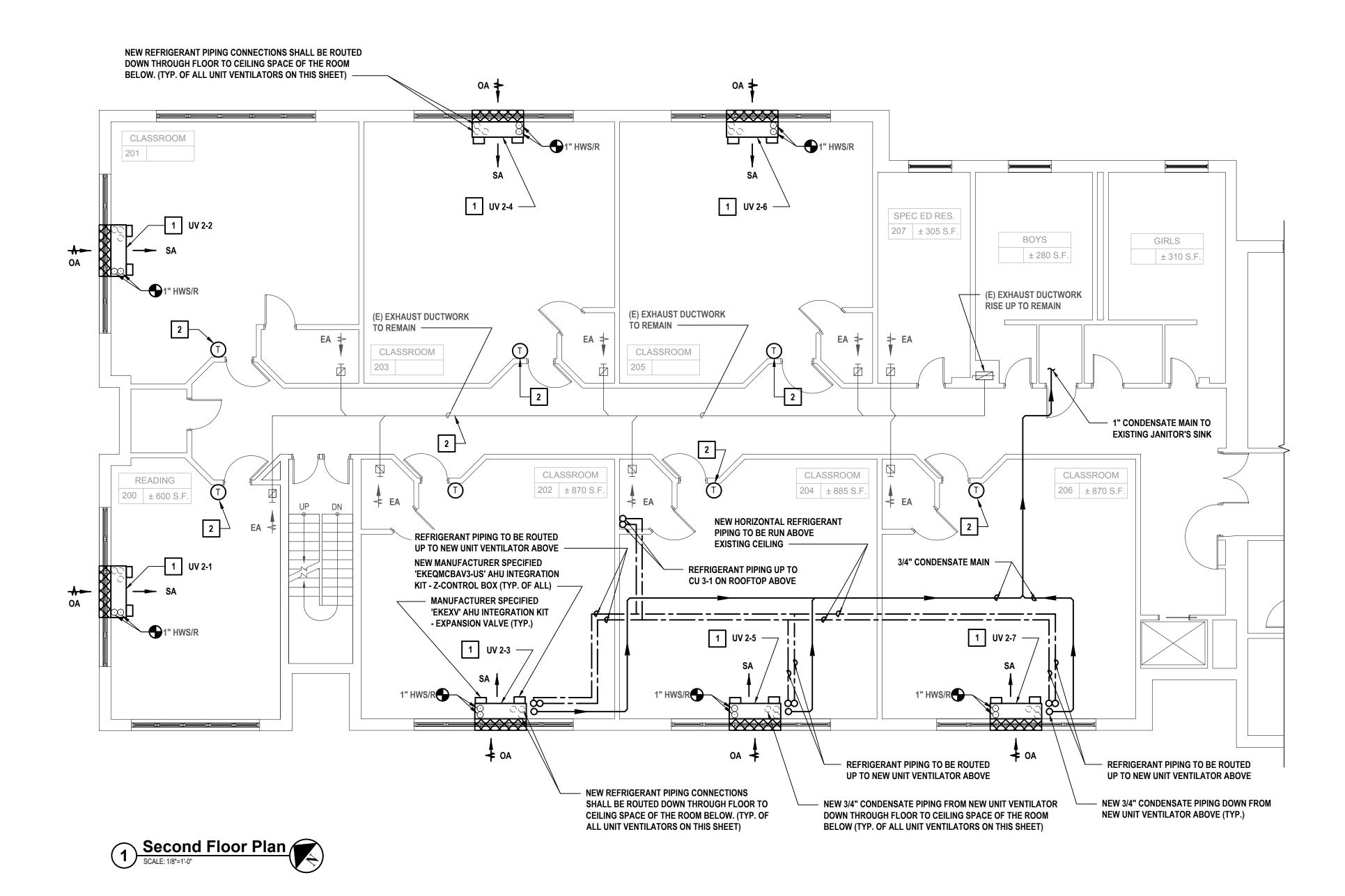
CONTRACT H
HEATING VENTILATION AND AIR
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MECHANICAL SECOND FLOOR PLAN PART B

M 111B.00



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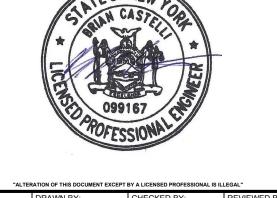


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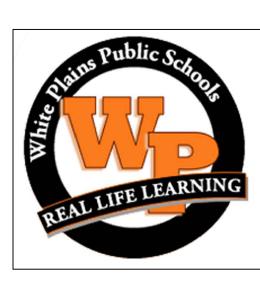
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White Plains City School District

UV Replacements at the George Washington Elementary School



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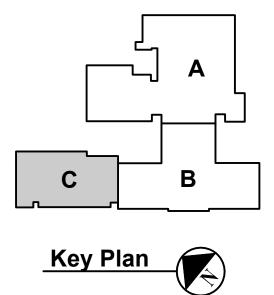
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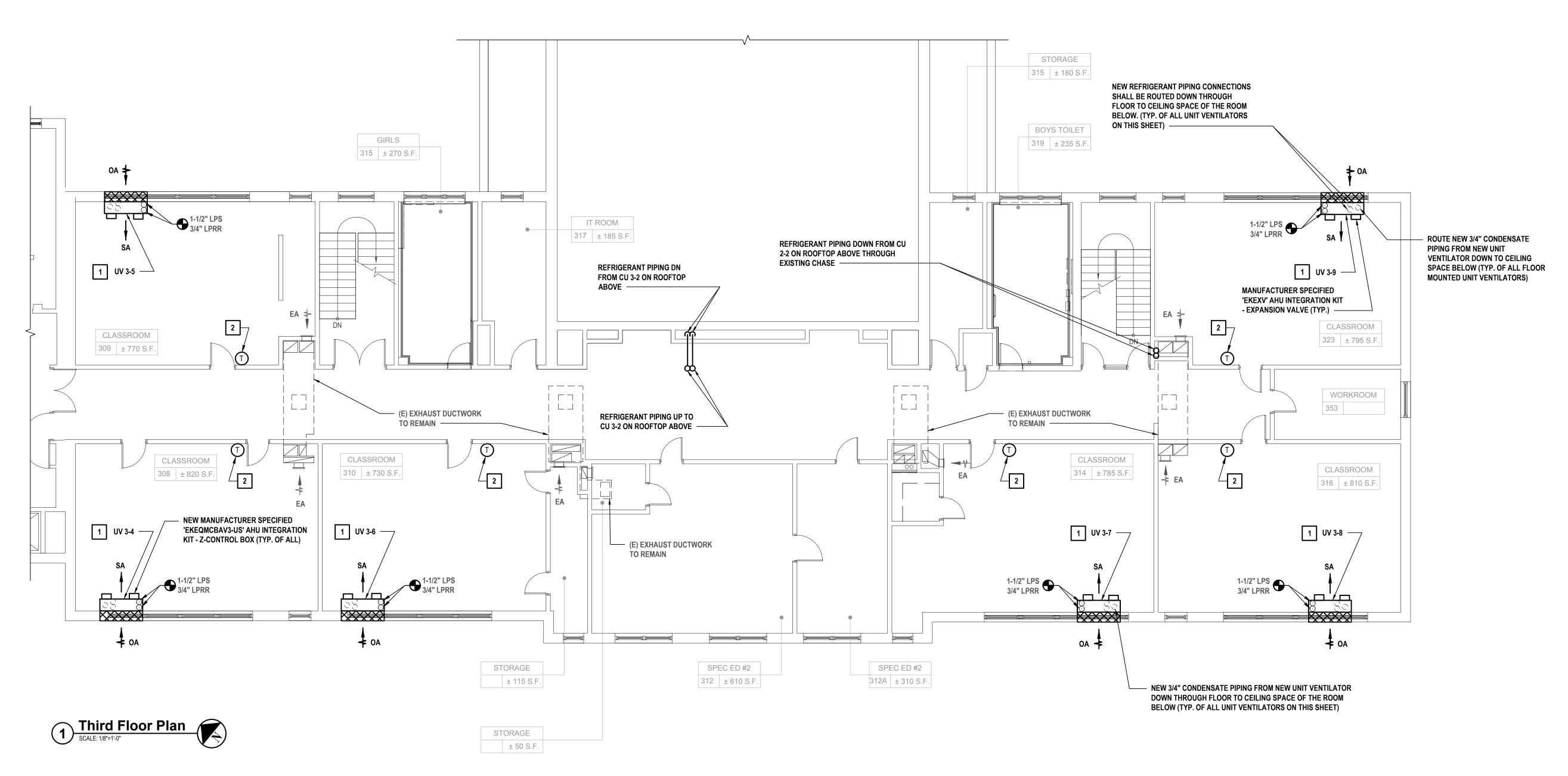
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SHEET TITLE

MECHANICAL SECOND FLOOR PLAN PART C

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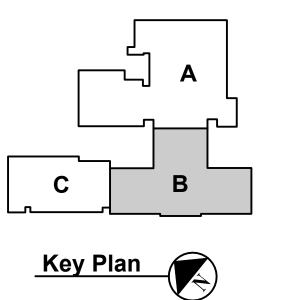


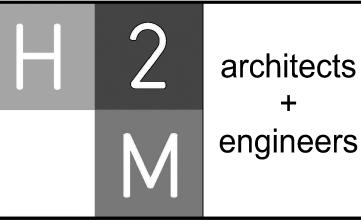


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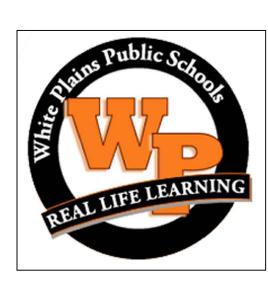
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White Plains City School District

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CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

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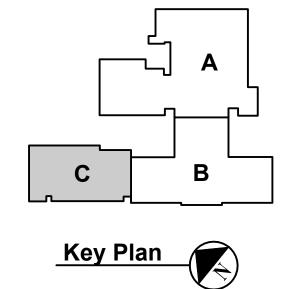
MECHANICAL THIRD FLOOR PLAN PART B

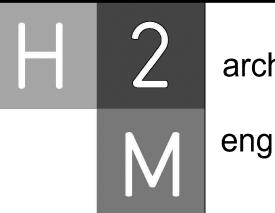
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- 3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S REQUIRED MAINTENANCE CLEARANCES AND PREVAILING CODE.
- 4. CONTRACTOR TO COORDINATE THE FINAL PLACEMENT OF ALL TEMPERATURE SENSORS AND NEW MANUFACTURER'S Z-CONTROL BOXES WITH THE DISTRICT AND/OR MANUFACTURER.
- 5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALTERATIONS TO EXISTING CASEWORK TO PROPERLY HIDE REFRIGERANT PIPING, EXPANSION VALVES, AND MAINTAIN EXISTING AESTHETIC.
- 6. CONTRACTOR TO IDENTIFY BEST REQUIRED QUANTITIES OF DIFFERENT STEAM / DX COILS CONFIGURATIONS (LEFT / RIGHT) FOR ALL UNIT VENTILATORS PRIOR TO PURCHASE AND INSTALLATION OF NEW UNIT VENTILATORS. QUANTITIES SHOULD BE BASED ON EXISTING FIELD CONDITIONS, NEW WORK, AND LIMITING ALTERATIONS TO EXISTING CASEWORK.
- 7. CONTRACTOR SHALL ROUTE ALL HORIZONTAL REFRIGERANT PIPING IN CEILING SPACES.

KEYED CONSTRUCTION NOTES:

- PROVIDE AND INSTALL NEW VERTICAL FLOOR-MOUNTED UNIT VENTILATOR (UV) WITH NEW DDC CONTROLS, NEW DDC THERMOSTAT, LOUVER, AND WALL SLEEVE. RECONNECT WITH NEW HYDRONIC PIPING (SEE UNIT VENTILATOR PIPING DETAIL) INCLUDING NEW DDC CONTROL VALVE, ETC. RECONNECT ANY FIN-TUBE RADIATION (FT) PIPING BRANCHES OR CONTROL INTERLOCKS (FT CONTROL VALVE AND SHARED UV THERMOSTAT). SEE ARCHITECTURAL DRAWINGS FOR MODIFICATIONS OR REPLACEMENTS OF EXISTING SHELVING UNITS.
- 2 PROVIDE AND INSTALL NEW MANUFACTURER SPECIFIED LOW VOLTAGE THERMOSTAT/CONTROLLER.

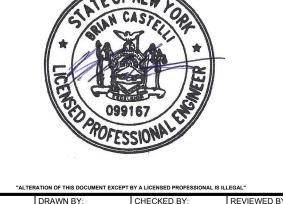




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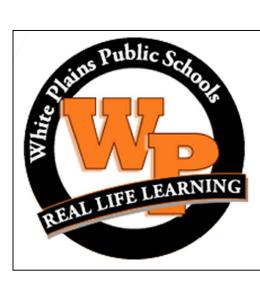
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DESIGNED BY:	DRAWN	I BY:	CHECKED BY:		REVIEWED BY:	
DAK		DAK	BMC	;	REVIEWER	
PROJECT No.: WPSD2113	3	FEBRUA	RY 2023	SCALE:	AS SHOWN	

White Plains City School District

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

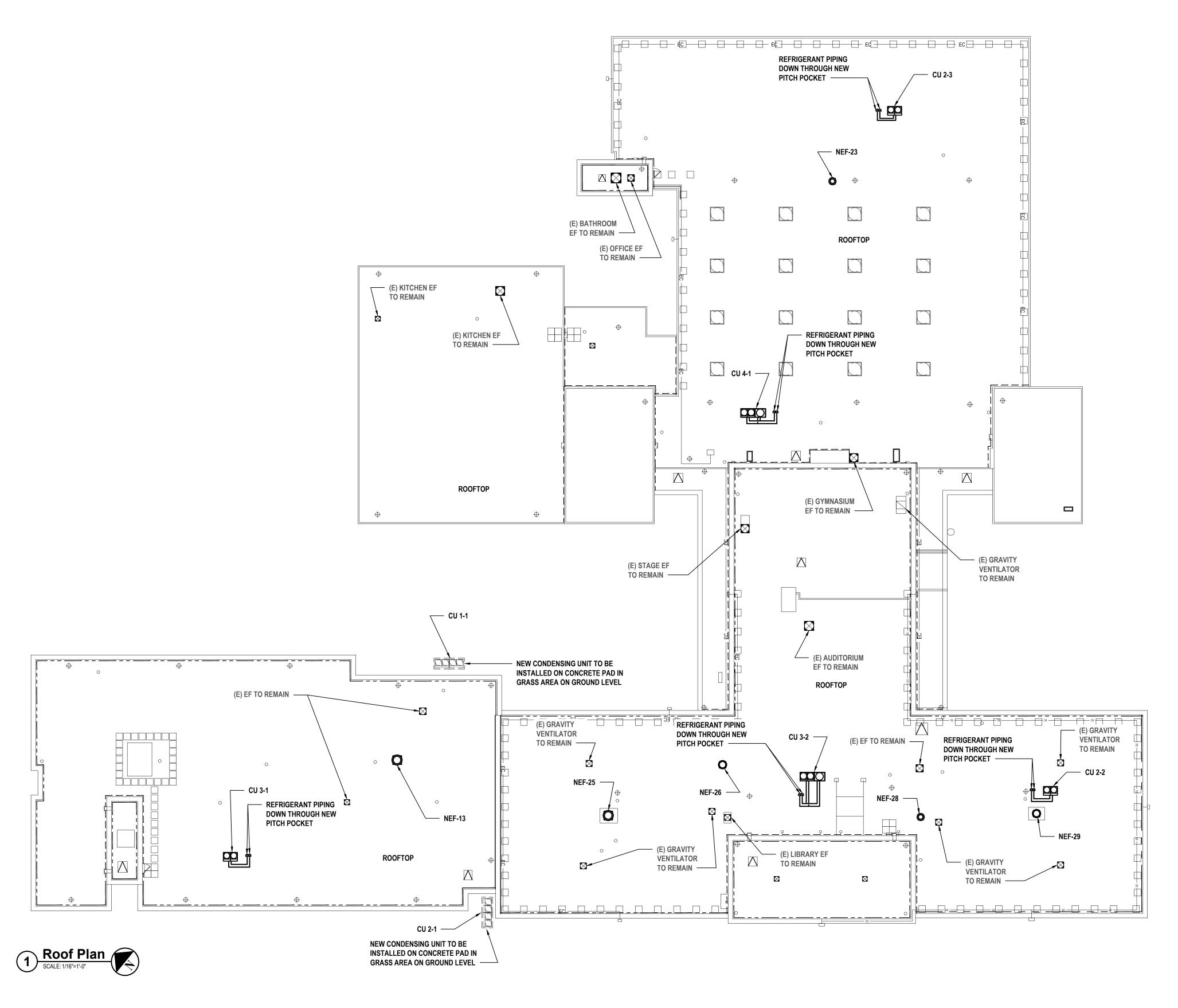
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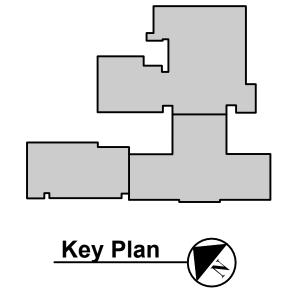
MECHANICAL THIRD FLOOR PLAN PART C

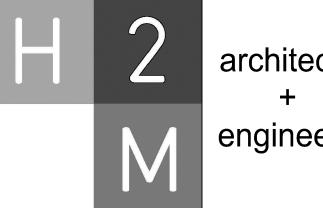
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- 1. EXISTING CONDITIONS ARE BASED ON A LIMITED FIELD SURVEY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING CONDITIONS AND COORDINATING WITH OTHER TRADES FOR ALL CONFLICTS AND SHALL ALERT ENGINEER PRIOR TO COMMENCEMENT OF NEW WORK AND PURCHASE OF EQUIPMENT.
- DO NOT SCALE DRAWINGS. LINE WORK SHOWN IS SCHEMATIC. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON DESIGN INTENT, SURVEY OF EXISTING CONDITIONS, AND COORDINATION WITH OTHER TRADES. SUBMIT EQUIPMENT FOR APPROVAL PRIOR TO PURCHASE.
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ROOFTOP EQUIPMENT IN COMPLIANCE WITH MANUFACTURER'S AIRFLOW REQUIREMENTS, MAINTENANCE CLEARANCES, AND APPLICABLE MECHANICAL CODE CLEARANCE REQUIREMENTS.
- 4. INSTALL NEW ROOFTOP EQUIPMENT CLEAR OF ANY EXISTING ROOFTOP WALKWAY PADS.
- 5. INSTALL NEW ROOFTOP EQUIPMENT A MINIMUM OF 10'-0" FROM LEADING EDGE.
- 6. INSTALL NEW VRV CONDENSING UNITS ON 18" HIGH RAILS.





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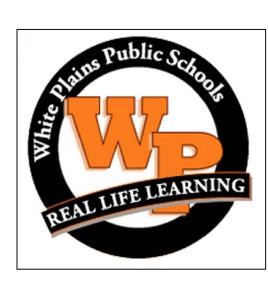
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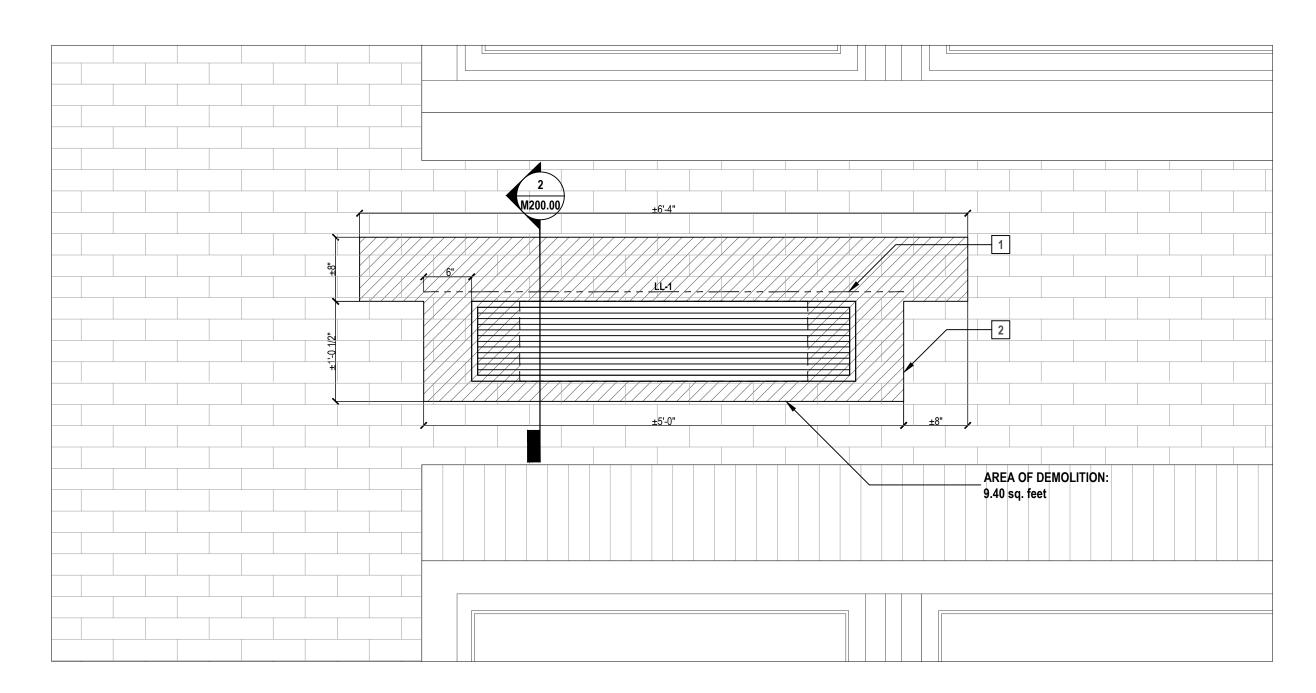
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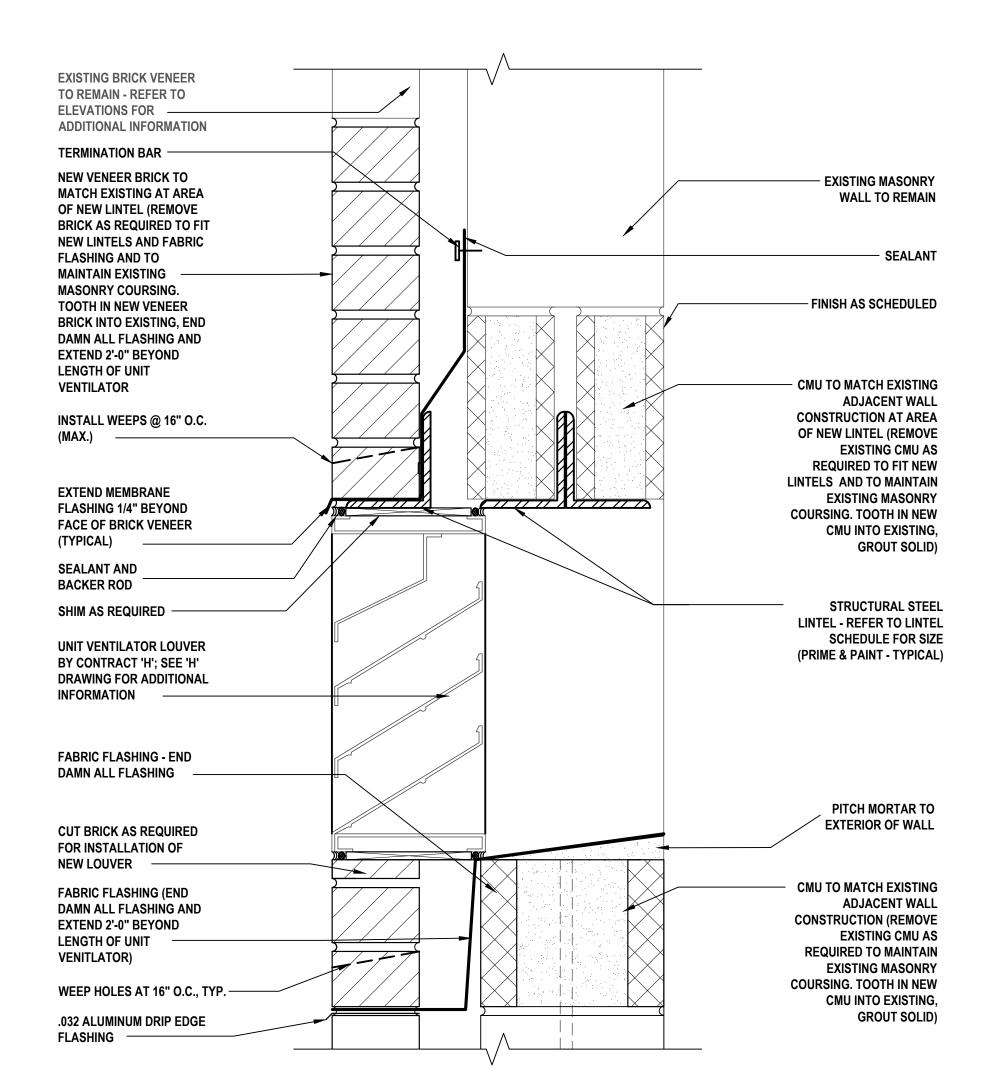
MECHANICAL ROOF PLAN

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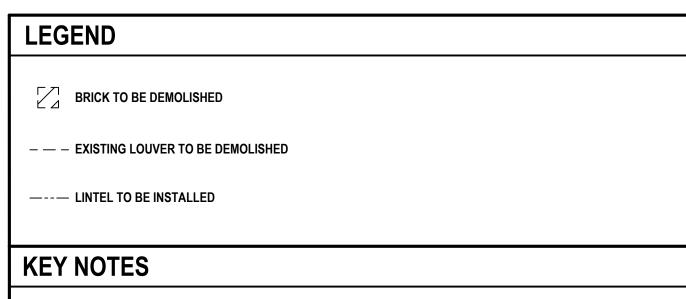






Detail at Unit Ventilator Lintel

SCALE: 3" = 1'-0"



CONTRACTOR TO PROVIDE AND INSTALL NEW STEEL HOT DIPPED GALVANIZED LINTEL - REFER TO DETAIL 2 AND LINTEL SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.

PROVIDE AND INSTALL NEW BRICK MASONRY THROUGHOUT AREA INDICATED. NEW BRICK MASONRY TO MATCH EXISTING COLOR, FINISH, COURSING AND PATTERN IN COMPLETELY FILLED BED, ENDS AND HEAD OF MORTAR JOINTS. REFER TO DETAIL 2 ON THIS SHEET FOR ADDITIONAL INFORMATION.

L	LINTEL SCHEDULE							
MA	RK SIZE	DETAIL	COMMENTS					
LL	(2) L5 x 3 1/2 x 5/16", L4 X 3 1/2 x 5/16 W/PL 1/4" x 13 1/2" x M.O.		USE FOR LINTELS UP TO 6'-6" MAX. IN LENGTH NOTES 1-7					

LINTEL SCHEDULE NOTES

- 1. LOOSE LINTELS SHALL REPLACE EXISTING AS INDICATED ON DRAWINGS. VERIFY SIZE OF EXISTING MASONRY OPENING IN FIELD PRIOR TO START OF FABRICATION OR INSTALLATION.
- 2. LOOSE LINTEL LENGTHS TO BE M.O. ± 1'-4" (TO PROVIDE MIN. 8" BEARING AT EACH END).
- 3. LINTELS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION, PREPARE, PRIME AND PAINT.
- 4. DOUBLE ANGLE SECTIONS LOCATED DIRECTLY BELOW 8" CMU SHALL BE WELDED TOGETHER BACK-BACK.
- 5. WELD VERTICAL REINFORCEMENT INTERRUPTED BY MASONRY OPENING TO TOP OF THE STEEL LINTELS, TYPICAL.
- 6. SEE FLOOR PLAN AND ELEVATIONS FOR MASONRY LAYOUT AND LOCATIONS OF LINTELS.
- SCRAPE, PREPARE, PRIME & PAINT ALL EXISTING EXPOSED SURFACES OF ALL LOOSE LINTELS.



engineers

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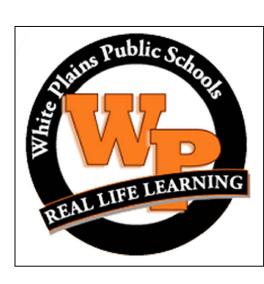
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CONTRACT H
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CONDITIONING

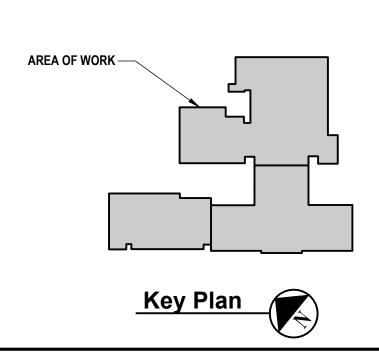
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ELEVATIONS AND DETAILS

DRAWING No

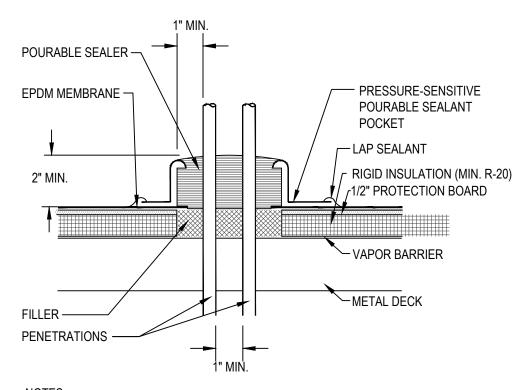
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NOTES:

ALL COMPONENTS SHALL BE ENCLOSED WITHIN UNIT VENTILATOR CABINET.

Unit Ventilator Hot Water Coil Piping Diagram - Modulating Control Valve SCALE: NTS (DETAIL#)

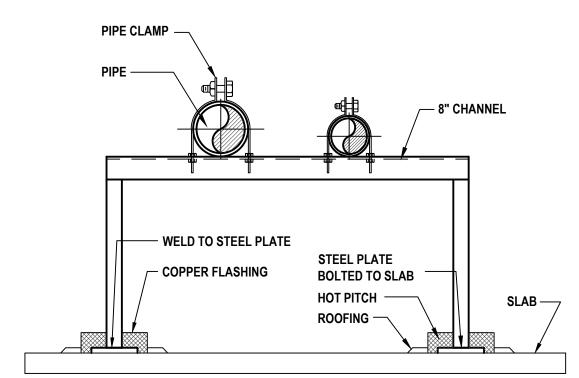


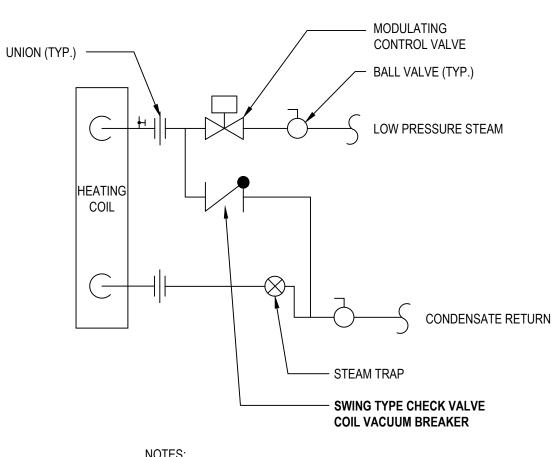
NOTES

- 1. 180° F MAXIMUM TEMPERATURE.
- 2. POURABLE SEALER MUST CONTACT UNCURED ELASTOFORM FLASHING AND DECK
- POURABLE SEALER POCKET TO BE 1" MINIMUM FROM PENETRATION ON ANY SIDE.
 POURABLE SEALER MUST COMPLETELY FILL POURABLE SEALER POCKET TO
- PREVENT PONDING OF WATER.
 5. SECUREMENT IS REQUIRED FOR POURABLE SEALER POCKETS WHICH ARE GREATER
- THAN 18" IN DIAMETER.
 6. POURABLE SEALER TO BE MINIMUM 2" DEEP.
- 7. POURABLE SEALER MUST CONTACT THE BARE SURFACE OF THE PENETRATION. ALL DEBRIS (PAINT, RUST, LEAD, OTHER FLASHINGS, ETC.) MUST BE REMOVED FROM THE PENETRATION.

Pourable Sealer Pitch Pocket Detail

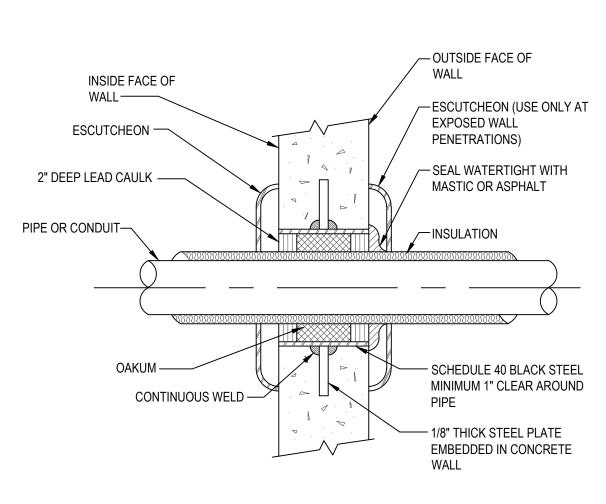
SCALE: NTS (DETAIL #)





ALL COMPONENTS SHALL BE ENCLOSED WITHIN UNIT VENTILATOR CABINET.

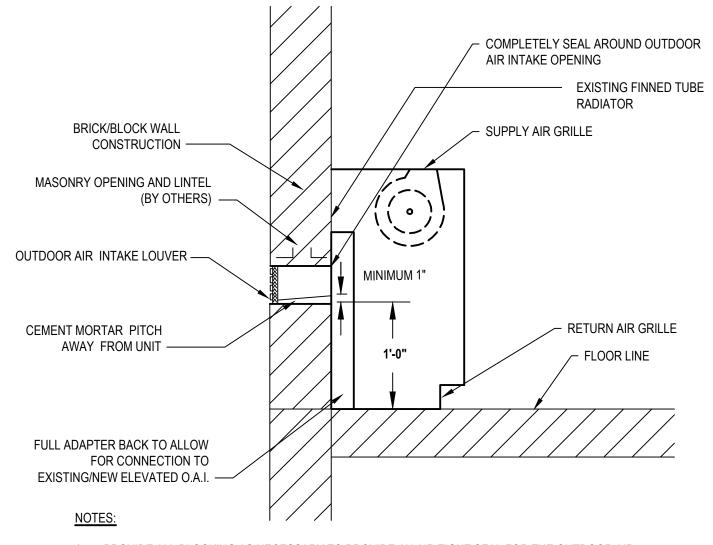
Unit Ventilator Steam Coil Piping Diagram - Modulating Control Valve SCALE: NTS (DETAIL #)



Pipe or Conduit Penetration

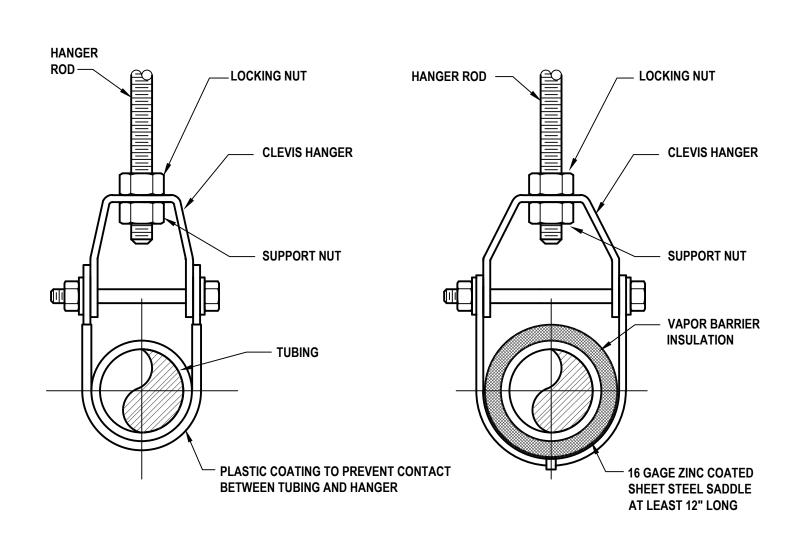
Through Exterior Walls

SCALE: NTS (DETAIL #)

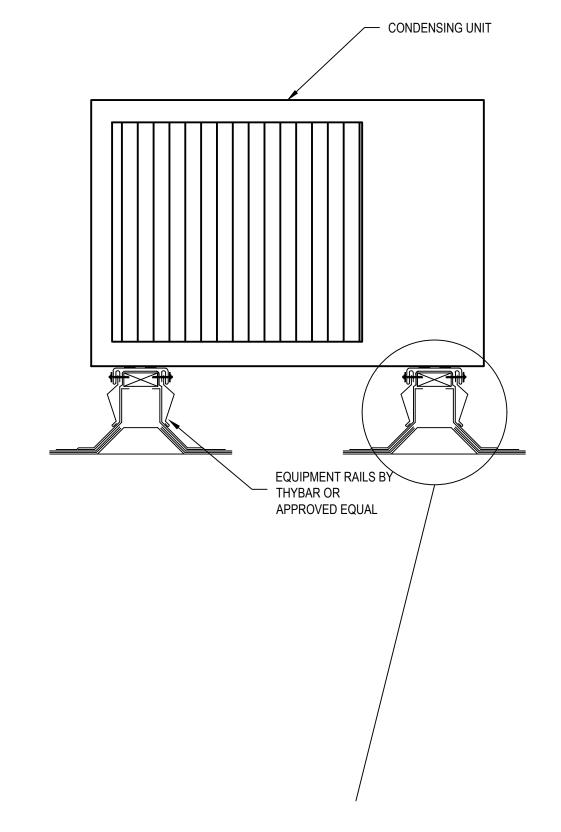


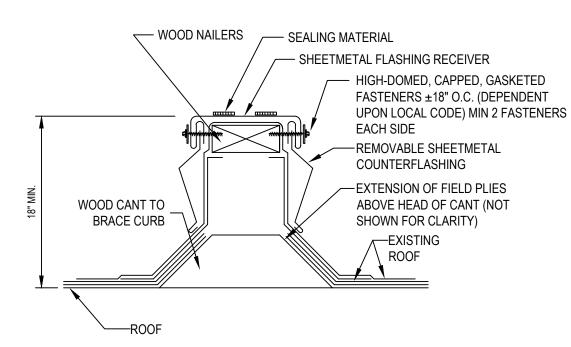
1. PROVIDE ALL BLOCKING AS NECESSARY TO PROVIDE AN AIR TIGHT SEAL FOR THE OUTDOOR AIR INTAKE PLENUM.

Unit Ventilator Detail SCALE: NTS (DETAIL #)



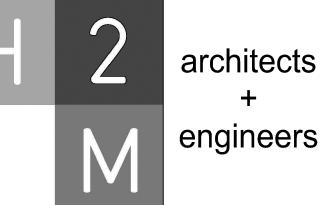
6 Copper Tubing Hanger Details
| Copper Scale: NTS (DETAIL #)





Condensing Unit Curb Detail

SCALE: NTS (DETAIL #)



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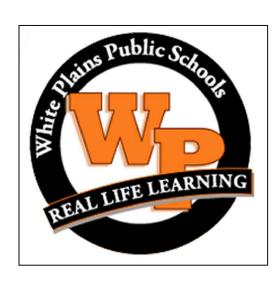
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WPSD2113
DRAWN BY:
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REVIEWED BY:
REVIEWED BY:
SCALE:
AS SHOWN

White Plains City School District

UV Replacements at the George Washington Elementary School



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CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

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SHEET TITLE

MECHANICAL DETAILS

DRAWING No.

M 500.00



UNIT VENTILAT	NIT VENTILATORS											
			PERFORMANCE/ CONSTRUCTION REQUIREMENTS									
			SUPPLY FAN			C	OOLING COIL			FILTERS		
		ASSOCIATED								AIR I	DATA	
EQUIPMENT NO.	LOCATION	CONDENSER	AIR FLOW / FAN SPEED (CFM)	MOTOR POWER (HP)	MOTOR TYPE	OUTSIDE AIR FLOW (CFM)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	REFRIGERANT TYPE	EAT DB/WB (°F)	LAT DB/WB (°F)	TYPE
UV-1-1, 1-4, 1-6	-	CU-1-1	1000	0.333	ECM- VARIABLE	SEE VENT INDEX	33.2	24.9	R-410A	80 / 67	57.1 / 56.3	1" THROWAWAY
UV-1-2, 1-3, 1-5, 1-7	-	CU-1-1	1250	0.333	ECM - VARIABLE	SEE VENT INDEX	43.4	32.6	R-410A	80 / 67	55.6 / 55.5	1" THROWAWAY
UV-2-1, 2-4, 2-6	-	CU-2-1	1000	0.333	ECM - VARIABLE	SEE VENT INDEX	33.2	24.9	R-410A	80 / 67	57.1 / 56.3	1" THROWAWAY
UV-2-2, 2-3, 2-5, 2-7	-	CU-2-1	1250	0.333	ECM - VARIABLE	SEE VENT INDEX	43.4	32.6	R-410A	80 / 67	55.6 / 55.5	1" THROWAWAY
UV-2-8, 2-9, 2-10, 2-11	-	CU-2-2	700	0.333	ECM - VARIABLE	SEE VENT INDEX	22.9	17.2	R-410A	80 / 67	58.8 / 57.5	1" THROWAWAY
UV-2-12, 2-13, 2-14, 2-15	-	CU-2-3	1000	0.333	ECM - VARIABLE	SEE VENT INDEX	33.2	24.9	R-410A	80 / 67	57.1 / 56.3	1" THROWAWAY
UV-3-1, 3-2, 3-3	-	CU-3-1	1250	0.333	ECM - VARIABLE	SEE VENT INDEX	43.4	32.6	R-410A	80 / 67	55.6 / 55.5	1" THROWAWAY
UV-3-4, 3-5, 3-6, 3-7, 3-8, 3-9	-	CU-3-2	1000	0.333	ECM - VARIABLE	SEE VENT INDEX	33.2	24.9	R-410A	80 / 67	57.1 / 56.3	1" THROWAWAY
UV-4	-	CU-4-1	750	0.333	ECM - VARIABLE	SEE VENT INDEX	22.9	17.2	R-410A	80 / 67	58.8 / 57.5	1" THROWAWAY
UV-5	-	CU-4-1	1000	0.333	ECM - VARIABLE	SEE VENT INDEX	33.2	24.9	R-410A	80 / 67	57.1 / 56.3	1" THROWAWAY
UV-6, 7	-	CU-4-1	1250	0.333	ECM - VARIABLE	SEE VENT INDEX	43.4	32.6	R-410A	80 / 67	55.6 / 55.5	1" THROWAWAY
UV-8	-	CU-4-1	1250	0.333	ECM - VARIABLE	SEE VENT INDEX	43.4	32.6	R-410A	80 / 67	55.6 / 55.5	1" THROWAWAY

UNIT VENTILATORS (CONTINUED)

	PERFORMANCE/ CONSTRUCTION REQUIREMENTS					BASIS OF DESIGN INFORMATION							
		HEAT	ING COIL										
		AIR DATA		HEATING MEDIUM			NOMINAL	NOMINAL	ELECTRICAL DATA				
EQUIPMENT NO.	TOTAL			STEAM COIL	MNF	MODEL NO.	DIMENSIONS	OPERATING WEIGHT			REMARKS		
	CAPACITY (MBH)	EAT (°F)	LAT (°F)	NO. ROWS			LxWxH (IN.)	(LBS.)	VOLTS/PHASE	MCA / MOCP (AMPS)			
UV-1-1, 1-4, 1-6	48.36	70	114.6	1	DAIKIN	UAVV9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1-13		
UV-1-2, 1-3, 1-5, 1-7	57.0	70	112.7	1	DAIKIN	UAVV9V13	86 x 22 x 31	525	115 / 1	6.3 / 15	1-13		
UV-2-1, 2-4, 2-6	48.36	70	114.6	1	DAIKIN	UAVV9V10	74 x 22 x 31	445	208 / 3	30.6 / 45	1-13		
UV-2-2, 2-3, 2-5, 2-7	57.0	70	112.7	1	DAIKIN	UAVV9V13	86 x 22 x 31	525	208 / 3	30.6 / 45	1-13		
UV-2-8, 2-9, 2-10, 2-11	37.5	70	90.3	1	DAIKIN	UAVV9V07	62 x 22 x 31	370	115 / 1	6.3 / 15	1-13		
UV-2-12, 2-13, 2-14, 2-15	62.2	70	91.1	1	DAIKIN	UAVV9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1-13		
UV-3-1, 3-2, 3-3	70.9	70	89.8	1	DAIKIN	UAVV9V13	86 x 22 x 31	525	115 / 1	6.3 / 15	1-13		
V-3-4, 3-5, 3-6, 3-7, 3-8, 3-9	60.2	70	94.7	1	DAIKIN	UAVV9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1-13		
UV-4	40.1	70	84.2	1	DAIKIN	UAVV9V07	62 x 22 x 31	370	115 / 1	6.3 / 15	1-13		
UV-5	62.4	70	90.8	1	DAIKIN	UAVV9V10	74 x 22 x 31	445	115 / 1	6.3 / 15	1-13		
UV-6, 7	76.3	70	80.7	1	DAIKIN	UAVV9V13	86 x 22 x 31	525	115 / 1	6.3 / 15	1-13		
UV-8	76.3	70	80.7	1	DAIKIN	UAVV9V13	86 x 22 x 31	525	115 / 1	6.3 / 15	1-13		

- 1. PROVIDE FIELD INSTALLED UNITARY CONTROLLER SHALL HAVE OUTPUTS/INPUTS FOR REMOTE FAN CONTROL AND INTERLOCKS
- 2. ARRANGEMENT: VERTICAL, FLOOR MOUNTED, BOTTOM FRONT RETURN AIR, REAR OUTSIDE AIR 3. PROVIDE ACTUATORS, TEMPERATURE SENSORS, AND FACTORY INSTALLED TERMINAL STRIP
- 4. PROVIDE FIELD INSTALLED UNITARY CONTROLLER TO MATCH EXISTING CONTROL PLATFORM
- 5. FACTORY INSTALLED TRANSFORMER TO POWER Z-BOX CONTROLLER 6. PROVIDE NEW MANUFACTURER SPECIFIED LOUVER.

- UNIT VENTILATORS SHALL BE 'DDC READY' PROVIDE NEW WALL SLEEVE (IF REQUIRED)
- 9. SINGLE-ROW HEATING COIL (STEAM) 10. LOW VOLT. REMOTE CONTROLLER
- 11. POWER DISCONNECT SWITCH 12. BACNET COMPATIBLE
- 13. DX-COIL

EXHAUST FAN													
			PERFORMANCE/CONSTRUCTION REQUIREMENTS										
EQUIPMENT NO.	LOCATION	LOCATION	SYSTEM SERVED	CFM	EXT S. P. (IN. W.C.)	FAN/MOTOR DUTY POINT RPM	ВНР	MNF	MODEL NO.	NOMINAL OPERATING WEIGHT	ELECTRICA	L DATA	REMARKS
					IXI M				(LBS.)	VOLTS/PHASE	MOTOR HP		
NEF-13	ROOFTOP	CLASSROOM EXHAUST	5325	0.650	1127	1.73	GREENHECK	G-200-VG	250	208 / 3	2	1-5	
NEF-23	ROOFTOP	CLASSROOM EXHAUST	1200	0.600	1312	0.22	GREENHECK	G-120-VG	110	208 / 1	1/2	1-5	
NEF-25	ROOFTOP	CLASSROOM EXHAUST	4275	0.650	971	1.11	GREENHECK	G-200-VG	250	208 / 3	2	1-5	
NEF-26	ROOFTOP	CLASSROOM EXHAUST	2100	0.675	1047	0.45	GREENHECK	G-160-VG	151	208 / 3	1	1-5	
NEF-28	ROOFTOP	CLASSROOM EXHAUST	900	0.650	1482	0.19	GREENHECK	G-100-VG	101	115 / 1	1/4	1-5	
NEF-29	ROOFTOP	CLASSROOM EXHAUST	720	0.625	1145	0.31	GREENHECK	G-140-VG	149	208 / 3	1	1-5	

- MOTOR SPEED CONTROLLER TO BE INTEGRAL / MOTOR MOUNTED TO BE USED FOR MANUAL SPEED ADJUSTMENT FOR BALANCING.
- 2. CURB ADAPTER (VERIFY SIZE IN FIELD) AND CURB SEAL
- 3. FACTORY PROVIDED DISCONNECT SWITCH
- 4. GALVANIZED MESH 5. HINGED BASE

AIR COO	LED CONI	DENSING	UNITS					
					PE	RFORMANCE/ CO	INSTRUCTION RE	QUIRE
 EQUIPMENT	LOCATION	TOTAL	NUMBER OF	COOLING	COOLING OPERATION	NOMINAL COOLING	REFRIGERANT	AIR

				PERFORMANCE/ CONSTRUCTION REQUIREMENTS						
EQUIPMENT NO.	LOCATION	TOTAL TONNAGE	NUMBER OF MODULES	COOLING AMBIENT EAT DB/WB (°F)	COOLING OPERATION TEMPERATURE RANGE (°F DB)	NOMINAL COOLING CAPACITY (MBH)	REFRIGERANT TYPE	AIRFLOW RATE (CFM) (MOD1, MOD2)	SOUND PRESSURE (dBA)	EFFICIENCY RATING (EER / IEER)
CU-1-1	SEE PLANS	20	2	95 / 75	23 - 122	240	R-410A	6286, 6286	61	12 / 25.4
CU-2-1	SEE PLANS	20	2	95 / 75	23 - 122	240	R-410A	6286, 6286	61	12 / 25.4
CU-2-2	SEE PLANS	10	1	95 / 75	23 - 122	120	R-410A	6286	61	12 / 25.4
CU-2-3	SEE PLANS	10	1	95 / 75	23 - 122	120	R-410A	6286	61	12 / 25.4
CU-3-1	SEE PLANS	10	1	95 / 75	23 - 122	120	R-410A	6286	61	12 / 25.4
CU-3-2	SEE PLANS	16	2	95 / 75	23 - 122	192	R-410A	6286, 5544	61	12 / 25.4
CU-4-1	SEE PLANS	16	2	95 / 75	23 - 122	192	R-410A	6286, 5544	61	12 / 25.4

AIR COOLED CONDENSING UNITS (CONTINUED)

-11									
				BA	ASIS OF DESIGN INFO	RMATION			
	EQUIPMENT			NOMINAL DIMENSIONS	NOMINAL OPERATING		REMARKS		
	NO.	MNF	MODEL NO.	L x W x H (IN.) (MOD1, MOD2)	WEIGHT (LBS.) (MOD1, MOD2)	VOLTS/PHASE	MOD1: MCA / MOCP (AMPS)	MOD2: MCA / MOCP (AMPS)	
_	CU-1-1	DAIKIN	RXYQ240XATJA	49x31x67, 49x31x67	528, 528	208 / 3	36.3 / 45	36.3 / 45	1-3
	CU-2-1	DAIKIN	RXYQ240XATJA	49x31x67, 49x31x67	528, 528	208 / 3	36.3 / 45	36.3 / 45	1-3
	CU-2-2	DAIKIN	RXYQ120XATJA	49x31x67	528	208 / 3	36.3 / 45	-	1-3
	CU-2-3	DAIKIN	RXYQ120XATJA	49x31x67	528	208 / 3	36.3 / 45	-	1-3
	CU-3-1	DAIKIN	RXYQ120XATJA	49x31x67	528	208 / 3	36.3 / 45	•	1-3
	CU-3-2	DAIKIN	RXYQ192XATJA	49x31x67, 37x31x67	528, 438	208 / 3	36.3 / 45	27.6 / 35	1-3
	CU-4-1	DAIKIN	RXYQ192XATJA	49x31x67, 37x31x67	528, 438	208 / 3	36.3 / 45	27.6 / 35	1-3

1. PROVIDE AND INSTALL MANUFACTURER'S SPECIFIED:

- 1.1. INTEGRATION KIT EXPANSION VALVE(S) 1.2. 2 PIPE REFNET JOINT(S)
- 1.3. INTEGRATION KIT Z-CONTROL BOX(S)
- 2. INSTALL UNIT ON 18" ROOF RAILS AS PER DETAILS WITH VIBRATION ISOLATION

3. WIND BAFFLE



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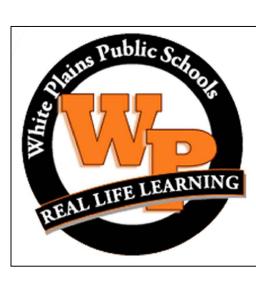
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1	02-08-200223	FINADBENDOW #MENT



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DESIGNED BY:	DRAWN BY:		CHECKED BY:		REVIEWED BY:
DAK	DAK		BMC		REVIEWE
PROJECT No.: WPSD2113	3	FEBRUA	RY 2023	SCALE:	AS SHOWN

White Plains City School District

UV Replacements at the George Washington Elementary School



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66-22-00-01-0-009-017

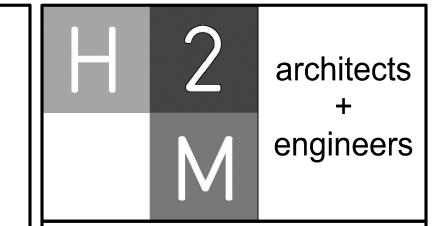
CONTRACT H
HEATING VENTILATION AND AIR CONDITIONING

FINAL BID DOCUMENT

MECHANICAL SCHEDULES -SHEET 1 OF 2

M 600.00

/ENTILATION	INDEY BASED	ON 2020 NEW Y	UKK S	DIAIE WECH	IANICAL	CODE				_		
ROOM NAME	UV TAG	OCCUPANCY CLASSIFICATION	FLOOR AREA (SF)	OCCUPANCY LOAD (PERSONS/1000 SF)	NUMBER OF OCCUPANTS	OCCUPANT BASED OA RATE (CFM/OCCUPANT)	AREA BASED OUTSIDE AIR RATE (CFM/SF)	EXHAUST RATE (CFM/SF)	UNCORRECTED OA REQUIRED (CFM)	Ez EFFICIENCY FACTOR (HEATING)	CORRECTED OA [HEATING] (CFM)	EXHAUST REQUIRED (CFM)
100	1-1	CLASSROOM (5-8)	600	25	15	10	0.12	0	222	0.90	247	0
101	1-2	CLASSROOM (5-8)	820	25	21	10	0.12	0	309	0.90	343	0
102	1-3	CLASSROOM (5-8)	870	25	22	10	0.12	0	335	0.90	361	0
103	1-4	CLASSROOM (5-8)	860	25	22	10	0.12	0	324	0.90	360	0
104	1-5	CLASSROOM (5-8)	885	25	23	10	0.12	0	337	0.90	374	0
105	1-6	CLASSROOM (5-8)	875	25	22	10	0.12	0	325	0.90	361	0
106	1-7	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
118	8	CLASSROOM (5-8)	1375	25	35	10	0.12	0	515	0.90	572	0
119	4	CLASSROOM (5-8)	595	25	15	10	0.12	0	222	0.90	247	0
128	5	MUSIC	880	25	22	10	0.12	0	326	0.90	362	0
200	2-1	CLASSROOM (5-8)	600	25	15	10	0.12	0	222	0.90	247	0
201	2-2	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
202	2-3	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
203	2-4	CLASSROOM (5-8)	870	25	22	10	0.12	0	25	0.90	361	0
204	2-5	CLASSROOM (5-8)	885	25	23	10	0.12	0	337	0.90	374	0
205	2-6	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
206	2-7	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
213	2-8	CLASSROOM (5-8)	790	25	20	10	0.12	0	295	0.90	328	0
214	2-9	CLASSROOM (5-8)	625	25	16	10	0.12	0	235	0.90	261	0
216	2-10	CLASSROOM (5-8)	700	25	18	10	0.12	0	264	0.90	293	0
223	2-11	CLASSROOM (5-8)	690	25	18	10	0.12	0	263	0.90	292	0
228	6	MUSIC	910	25	23	10	0.12	0	340	0.90	378	0
240	7	CLASSROOM (5-8)	815	25	21	10	0.12	0	308	0.90	342	0
242	2-12	CLASSROOM (5-8)	805	25	21	10	0.12	0	307	0.90	341	0
244	2-13	CLASSROOM (5-8)	830	25	21	10	0.12	0	310	0.90	344	0
246	2-14	CLASSROOM (5-8)	845	25	22	10	0.12	0	322	0.90	358	0
248	2-15	CLASSROOM (5-8)	840	25	21	10	0.12	0	311	0.90	346	0
302	3-1	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
304	3-2	CLASSROOM (5-8)	885	25	23	10	0.12	0	337	0.90	374	0
306	3-3	CLASSROOM (5-8)	870	25	22	10	0.12	0	325	0.90	361	0
308	3-4	CLASSROOM (5-8)	820	25	21	10	0.12	0	309	0.90	343	0
309	3-5	CLASSROOM (5-8)	770	25	20	10	0.12	0	293	0.90	326	0
310	3-6	CLASSROOM (5-8)	730	25	19	10	0.12	0	278	0.90	309	0
314	3-7	CLASSROOM (5-8)	785	25	20	10	0.12	0	295	0.90	328	0
316	3-8	CLASSROOM (5-8)	810	25	21	10	0.12	0	308	0.90	342	0
323	3-9	CLASSROOM (5-8)	795	25	20	10	0.12	0	296	0.90	329	0



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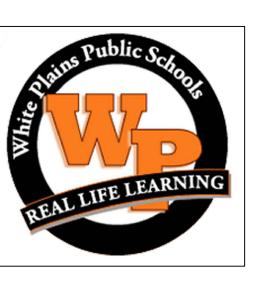
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DAK	DAK		BMC		REVIEWER	
PROJECT No.: WPSD2113	DATE: FEBRUA		RY 2023	SCALE:	AS SHOWN	

White Plains City School District

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

CONTRACT H
HEATING VENTILATION AND AIR
CONDITIONING

FINAL BID DOCUMENT

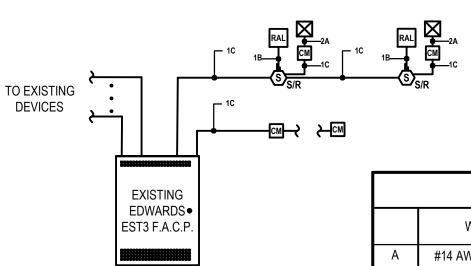
SHEET TIT

MECHANICAL SCHEDULES -SHEET 2 0F 2

DRAWING N

M601.00

FIRE ALARIVI LEGEND						
SYMBOL	DESCRIPTION	COMMENTS				
RAL (S) CM S/R	DUCT DETECTOR WITH REMOTE ALARM LAMP; "S" DENOTES SUPPLY, "R" DENOTES RETURN.					
СМ	CONTROL MODULE.					



L	WIRE LEGEND					
		WIRE DESCRIPTION	TYPE	NOTES		
	Α	#14 AWG. NON SHIELDED	THHN	-		
	В	1 PAIR #18 AWG. NON SHIELDED	FPLP	-		
	С	1 PAIR #14 AWG. NON SHIELDED	FPLP	-		
_						

AFC ARC FAULT CIRCUIT INTERRUPTER 100AF 100AT ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AHJ AMP, A AMPERE AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH ATS SCHEDULE AMERICAN WIRE GAUGE BELOW FINISHED CEILING CENTERLINE CT COUNTER TOP E.C. ELECTRICAL CONDUIT GFCI GROUND FAULT CIRCUIT INTERRUPTER GFI GROUND FAULT INDICATOR GND GROUND CON ED CONSOLIDATED EDISON INC. MCB MAIN CIRCUIT BREAKER MLO MAIN LUGS ONLY NTS NOT TO SCALE TYP TYPICAL UON UNLESS OTHERWISE NOTED CTS UNDER COUNTER UC ⊢-}⊱ pts UV UNIT VENTILATOR VOLT UPS VAC VOLTS ALTERNATING CURRENT 120/208V VOLTS DIRECT CURRENT VDC X-FMR TRANSFORMER $\overline{\overline{}}$ WP WEATHERPROOF FIRE ALARM GENERAL NOTES: ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL 100AF ELECTRIC CODE AND N.F.P.A 72 AS REQUIRED BY LOCAL ORDINANCE. 100AT ALL CONDUCTORS MUST BE TEST FREE OF OPENS, SHORTS AND GROUNDS.

DESCRIPTION

ABOVE FINISHED FLOOR

ABOVE FINISHED CEILING

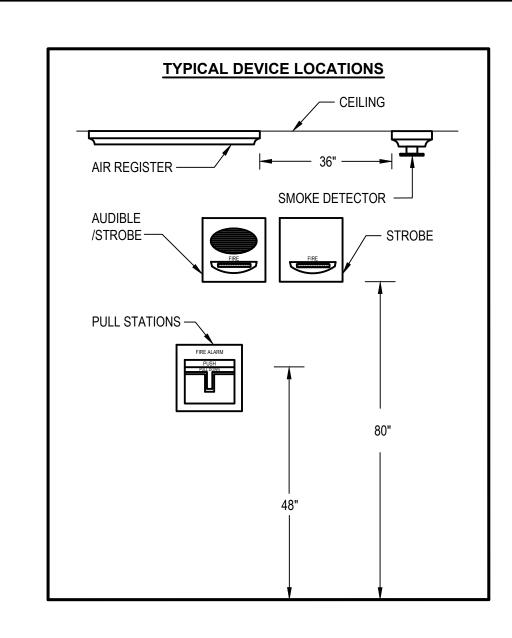
COMMENTS

SYMBOL

- GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE No 12 AWG.
- ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT.
- FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS REQUIREMENTS.
- REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS, DRAWINGS REPRESENT DEVICE QUANTITIES. SHOP DRAWINGS SHALL BE SUBMITTED SHOWING SCALED LOCATIONS. CONTRACTOR TO SUBMIT PLANS STAMPED BY LICENSED NEW YORK PROFESSIONAL ENGINEER ONLY. SHOP DRAWINGS WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED.
- CONTRACTOR RESPONSIBLE TO PATCH & PAINT ALL OPENINGS AS A RESULT OF REMOVAL OF EXISTING EQUIPMENT.
- INSTALL DETECTORS A MINIMUM OF 3'-0" FROM ANY SUPPLY OR RETURN AIR REGISTERS COORDINATE EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL
- 9. WHEN INSTALLING SHIELDED CABLE THE FOLLOWING MUST BE OBSERVED:
 - A. METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN.
 - B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS. THE REMOTE END OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.
- 10. AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM RESET. PROVIDE ALL REQUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND CONTROL WIRING AND CONDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM INDICATION.
- 11. INSTALL ALL DEVICES IN ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS FOLLOWS:
 - A. MANUAL PULL STATIONS 48" O.C.

PROVIDE NEW STARTERS WHERE REQUIRED.

- B. ALARM INDICATING APPLIANCE 80" A.F.F.
- C. VERIFY WITH CONTRACT SPECIFICATIONS FOR ANY DEVIATIONS.
- 12. ALL EQUIPMENT TO BE RECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN
- 13. PROVIDE AND INSTALL ALL NECESSARY CONTROL MODULES, SYNCHRONIZATION MODULES, STARTERS AND MONITOR MODULES AS REQUIRED BY MANUFACTURER.
- 14. PROVIDE ALL REQUIRED DUCT SMOKE DETECTORS. CONTRACTOR TO INSTALL DUCT SMOKE DETECTORS. CONTRACTOR TO INTERFACE ALL DUCT DETECTORS WITH FACP.
- 15. FIRE ALARM RISER DIAGRAM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES
- 16. ALL HVAC EQUIPMENT WITH A CFM RATING OF 1000 CFM OR GREATER SHALL BE INTERCONNECTED TO THE FIRE ALARM SYSTEM AND SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL ALSO PROVIDE AND INSTALL NEW SUPPLY AND RETURN DUCT SMOKE DETECTORS WITH REMOTE LED'S FOR ALL HVAC UNITS WITH A CFM RATING OF 2000 CFM OR GREATER. CONTRACTOR SHALL PROVIDE IN BASE BID PRICE A COST FOR INTERCONNECTING TWO (2) ADDITIONAL HVAC UNITS TO SHUTDOWN UPON ALARM ACTIVATION AND ALL COSTS FOR PROVIDING AND INSTALLING TWO (2) DUCT SMOKE DETECTORS WITH REMOTE LEDS INCLUDING ALL ASSOCIATED CONTROL MODULES AND WIRING/CONDUIT. CONTRACTOR SHALL INTERFACE WITH ALL EXISTING STARTERS AND



SINGLE LINE DIAGRAM LEGEND

CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP

DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.

UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE

TRANSFORMER 'T2' WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.

REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.

REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P

VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.

FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5

MULTIPLE BRANCH CIRCUITS AS REQUIRED.

—— — CONTROL CIRCUIT; MIN 2 #12 AWG IN ¾" E.C.

FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6

FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.

FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE

TRANSFER SWITCH 'TS1'; SEE TRANSFER SWITCH SCHEDULE

ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.

LINE VOLTAGE THERMOSTAT, 120V, 10A.

DISCONNECT SWITCH SCHEDULE

CURRENT TRANSFORMERS.

VOLTAGE TRANSFORMERS.

RACK OUT CIRCUIT BREAKER

VFD

25

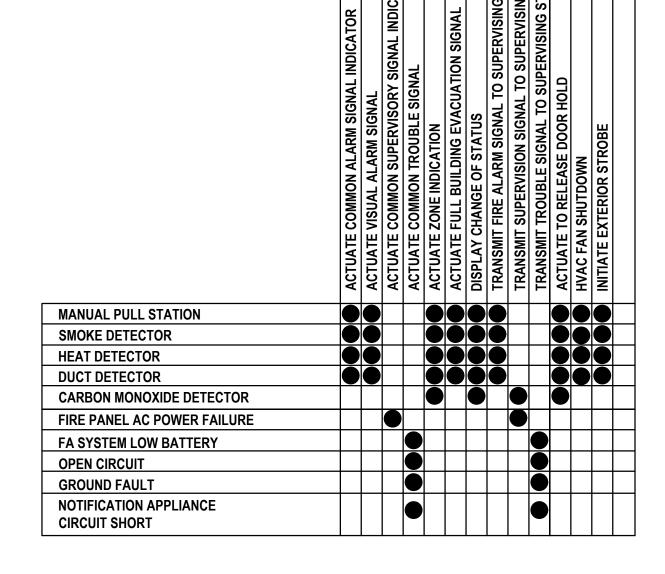
FVNR

UNINTERRUPTIBLE POWER SUPPLY

MOTOR, NUMBER INDICATES HORSEPOWER.

GENERATOR SET 'G'

2 Typical Fire Alarm Device Location
SCALE:NTS



LIST OF DRAWINGS

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN

ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN

ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN

ELECTRICAL ROOF HVAC POWER AND FIRE ALARM PLAN

ELECTRICAL SCHEDULE, DETAILS AND SINGLE LINE DIAGRAM

ROOM DESIGNATION

WALL SECTION CUT

DETAIL KEY

ELEVATION KEY

COLUMN GRID

ELEVATION LINE

DRAWING TITLE

SEE NOTE#

ON DWG #

CONTROL UNIT NOTIFICATION SUPPLEMENTARY

INTERIOR ELEVATION REFERENCE

BUILDING SECTION CUT

SYMBOLS LEGEND

ELECTRICAL ROOF DEMOLITION PLAN

ELECTRICAL PANEL SCHEDULES

—-—(**H**

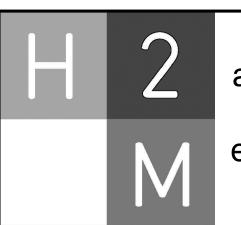
1 Title

COMMENTS

ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM AND NOTES

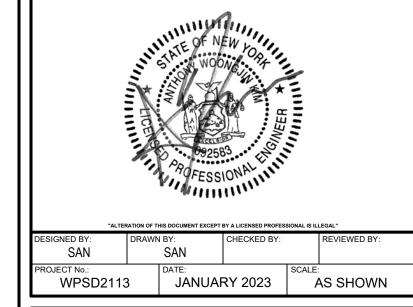
Fire Alarm Sequence of Operation

SCALE:NTS



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MARK	DATE	DESCRIPTION



White Plains City School District

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CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

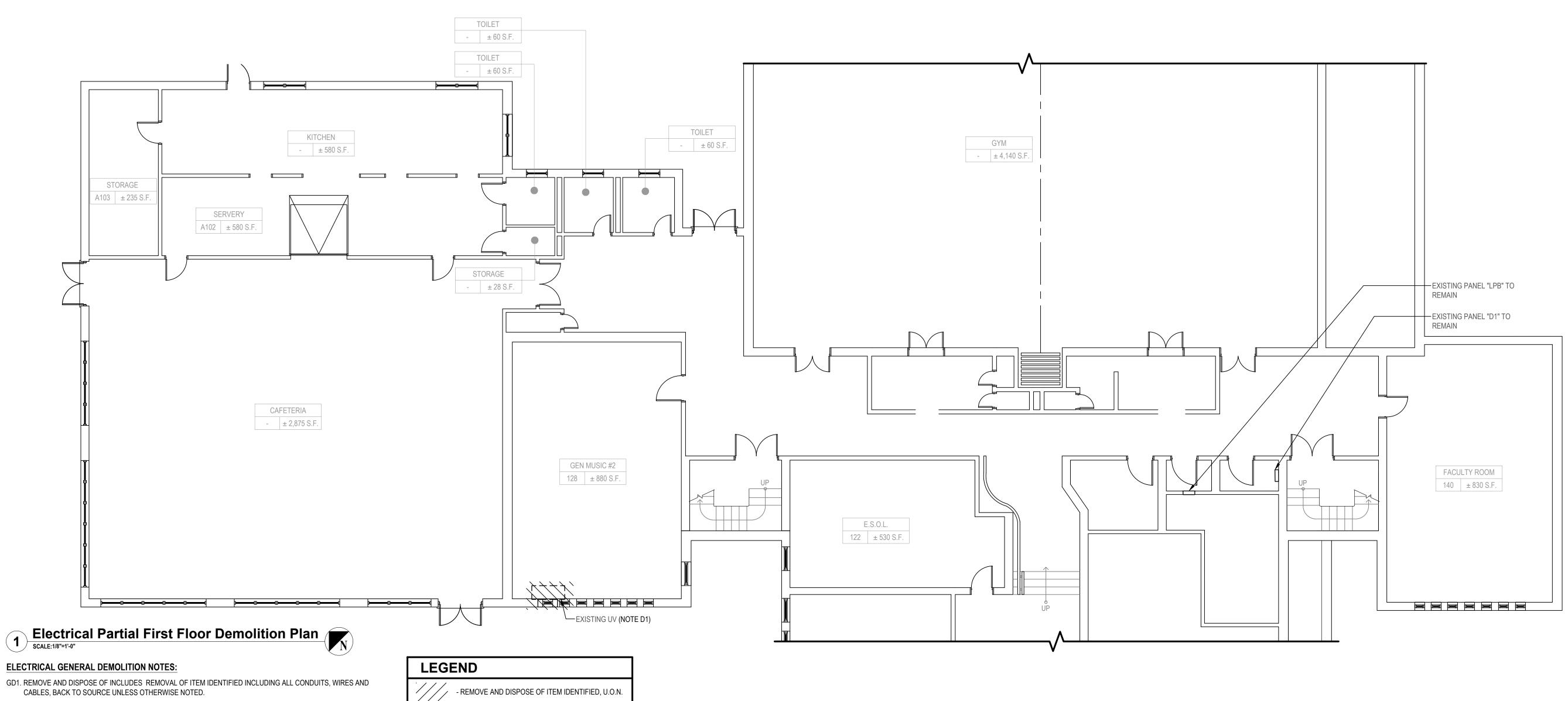
ELECTRICAL LEGENDS, FIRE ALARM RISER DIAGRAM AND NOTES

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OFFICE (ON FIRST FLOOR) Fire Alarm Riser Diagram (Note 15)

SCALE:NTS

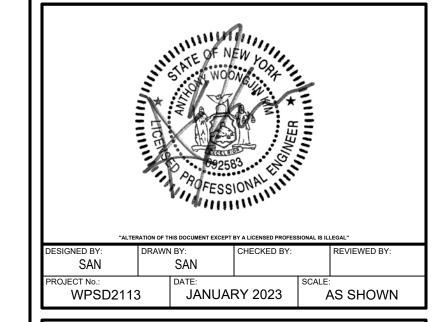
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architects engineers

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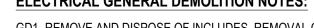
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CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

ED 100.00



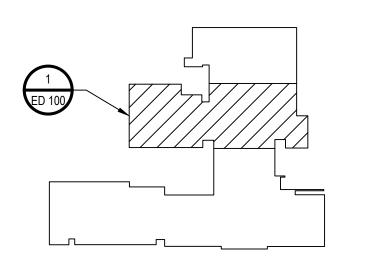
- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES IS REQUIRED.

ELECTRICAL GENERAL FIRE ALARM NOTE:

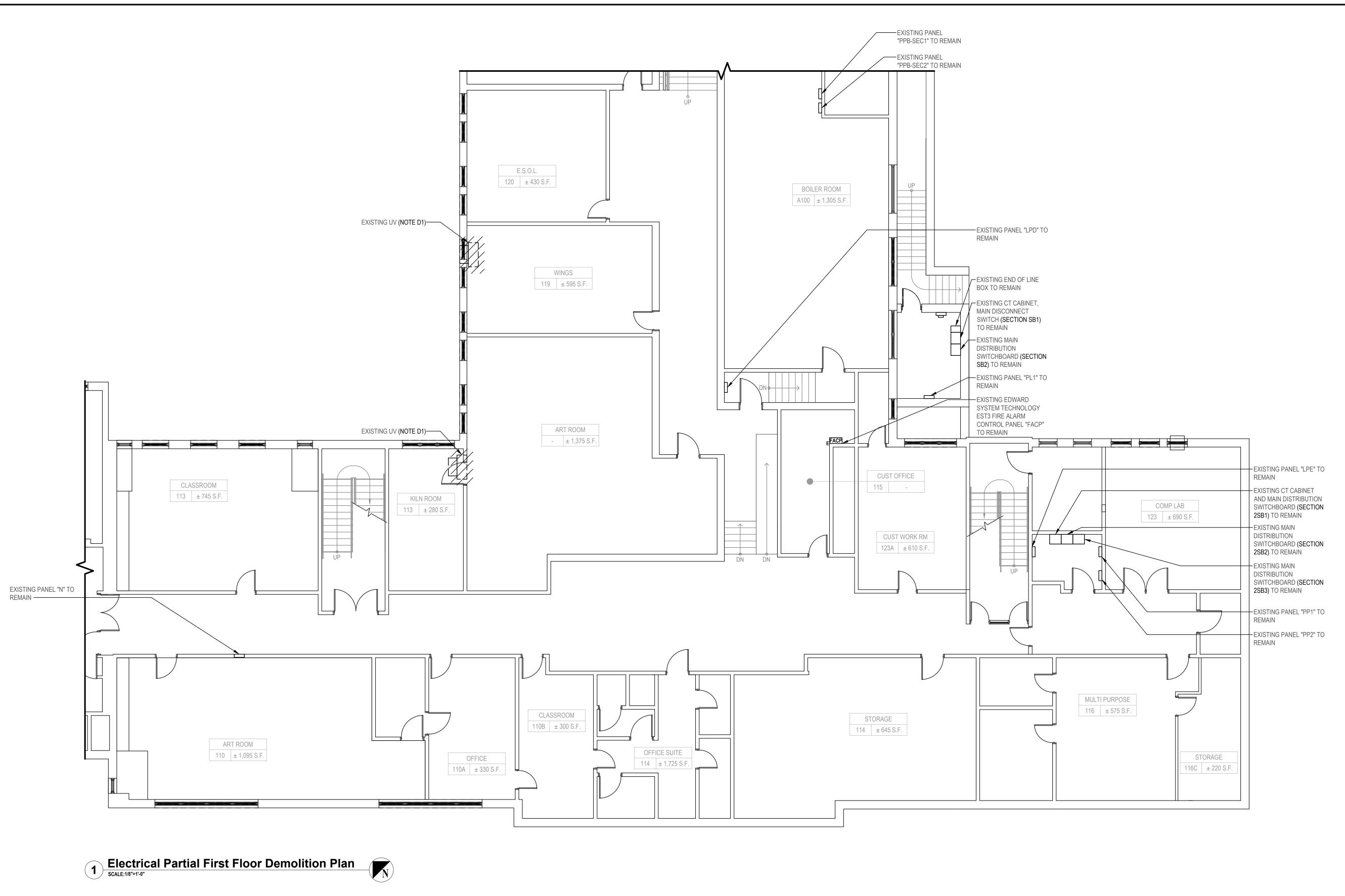
GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

ELECTRICAL DEMOLITION KEY NOTE:

D1. CONTRACT 'H' SHALL REMOVE AND DISPOSE OF EXISTING EQUIPMENT. CONTRACT 'E' SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.



Key Plan SCALE:NTS



ELECTRICAL GENERAL DEMOLITION NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
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WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.

PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN,

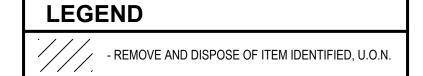
CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

ELECTRICAL GENERAL FIRE ALARM NOTE:

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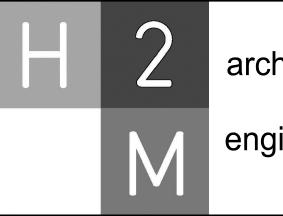
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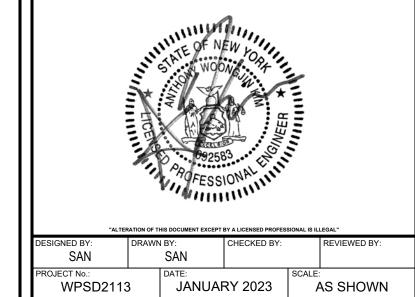




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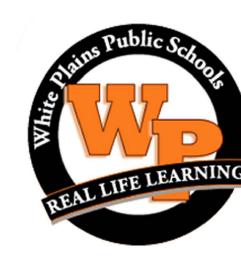
CONSULTANTS:		

MARK	DATE	DESCRIPTION



White Plains City School District

UV Replacements at the George Washington Elementary School



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CONTRACT E
ELECTRICAL CONSTRUCTION

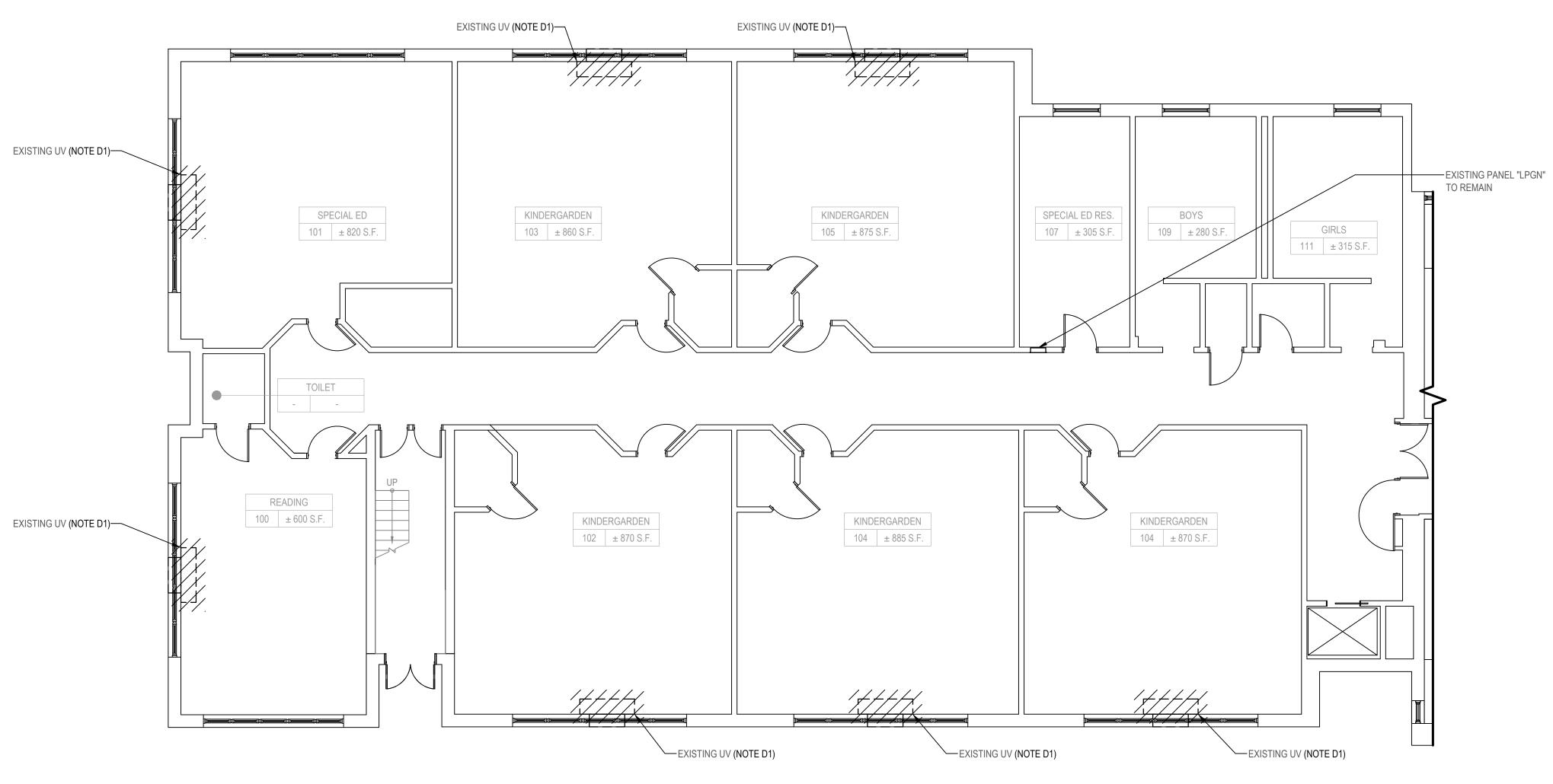
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SHEET TITLE

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

AWING No.

ED 101.00





LEGEND - REMOVE AND DISPOSE OF ITEM IDENTIFIED, U.O.N.

ELECTRICAL GENERAL DEMOLITION NOTES:

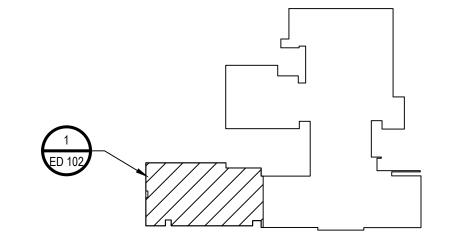
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- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES REQUIRED.

ELECTRICAL GENERAL FIRE ALARM NOTE:

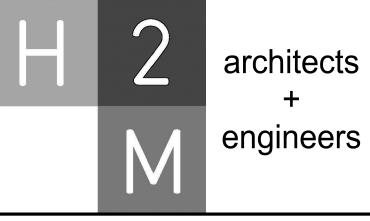
GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

D1. CONTRACT 'H' SHALL REMOVE AND DISPOSE OF EXISTING EQUIPMENT. CONTRACT 'E' SHALL REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.



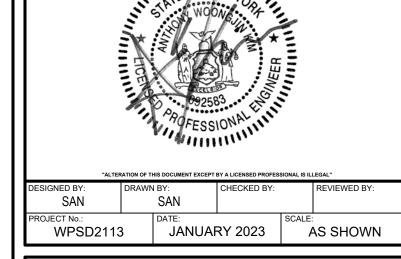




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CONTRACT E
ELECTRICAL CONSTRUCTION

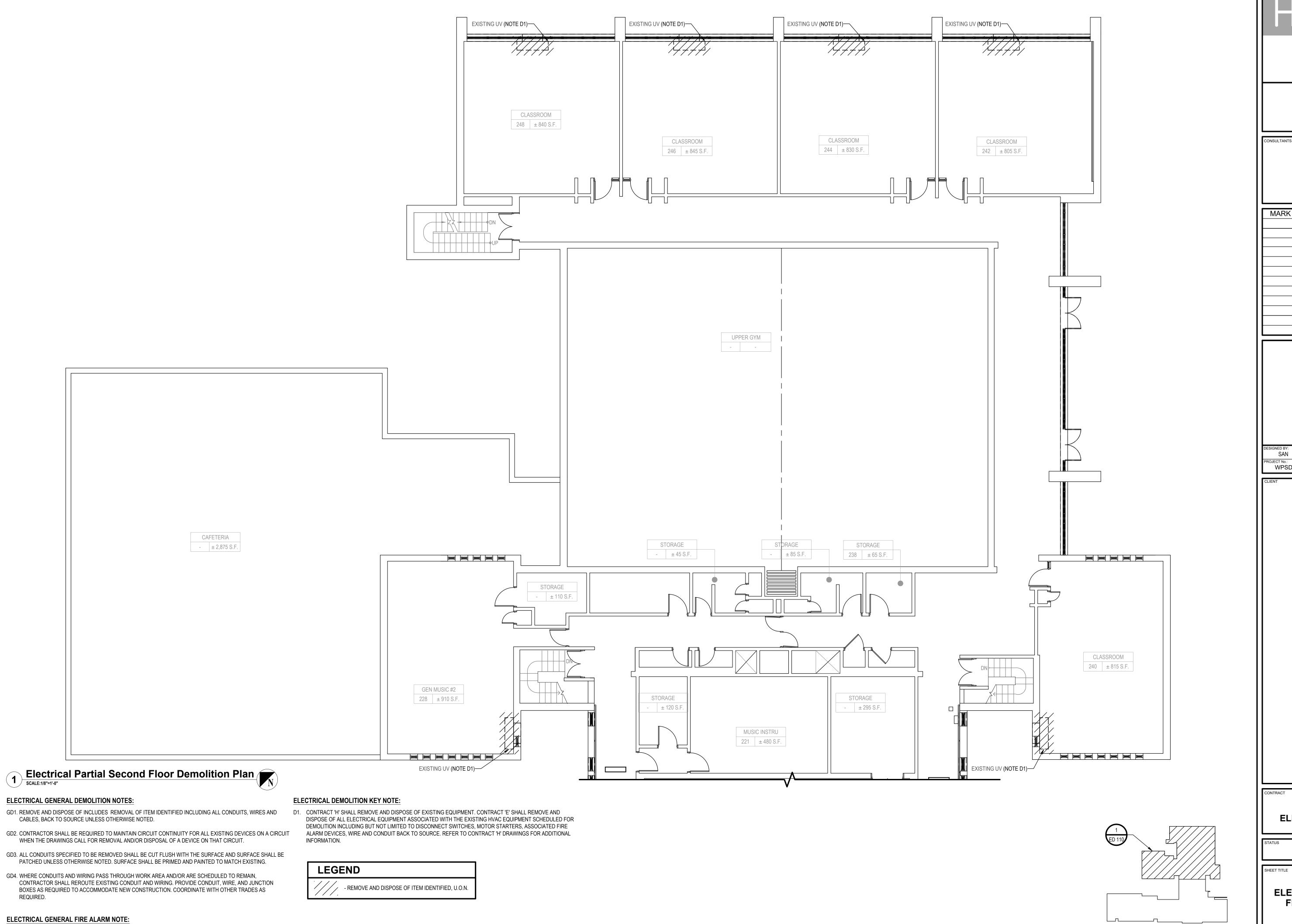
FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL PARTIAL FIRST FLOOR DEMOLITION PLAN

DRAWING No.

ED 102.00



GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

DEVICES.

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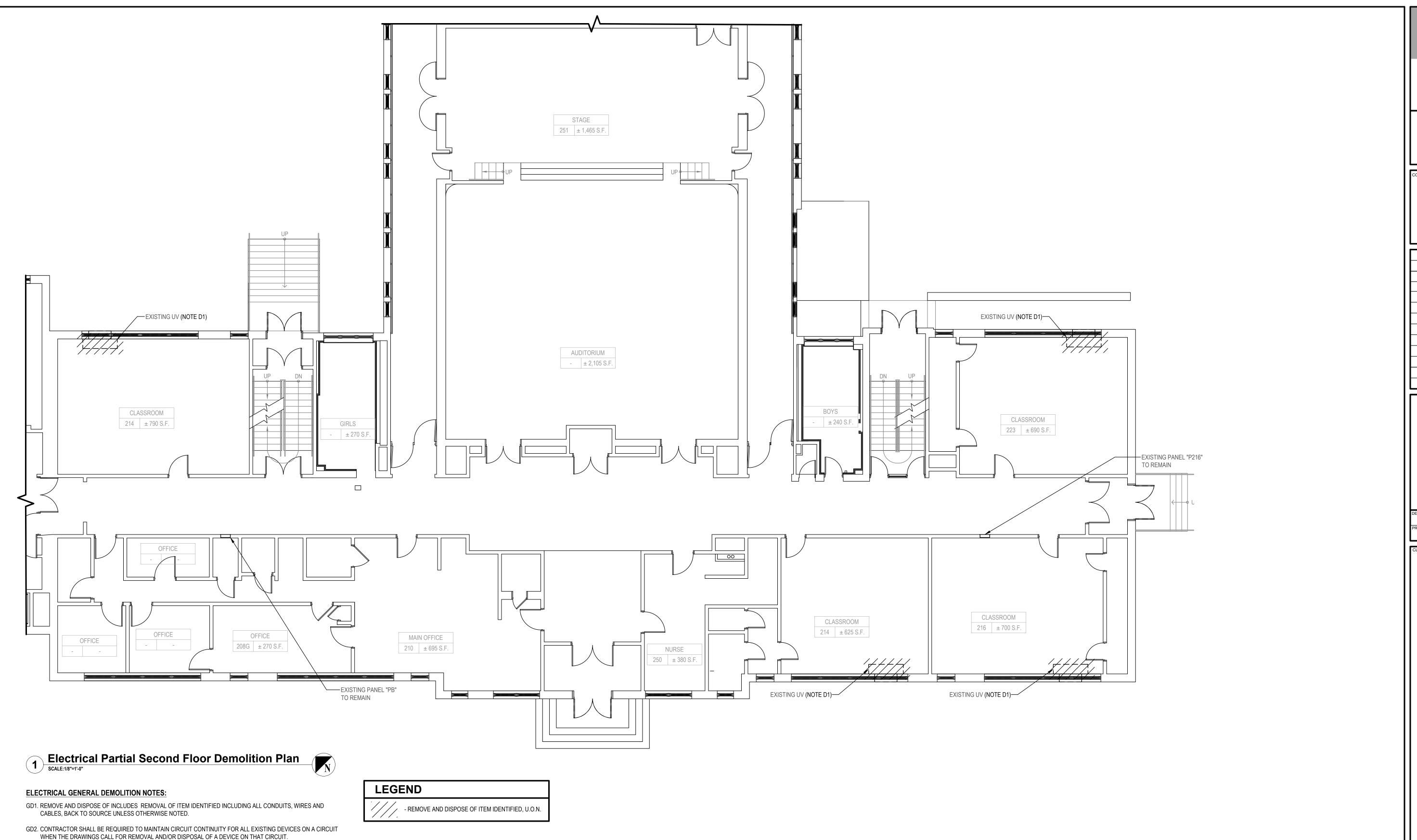
CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

Key Plan
SCALE:NTS

ED 110.00



WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.

GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

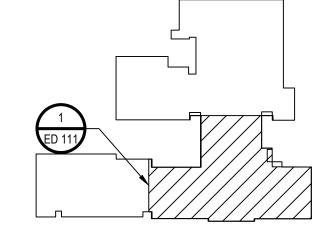
GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

ELECTRICAL GENERAL FIRE ALARM NOTE:

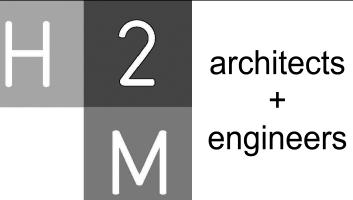
GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL DEMOLITION KEY NOTE:

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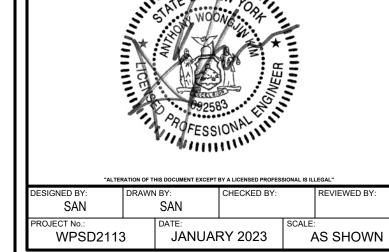


Key Plan SCALE:NTS



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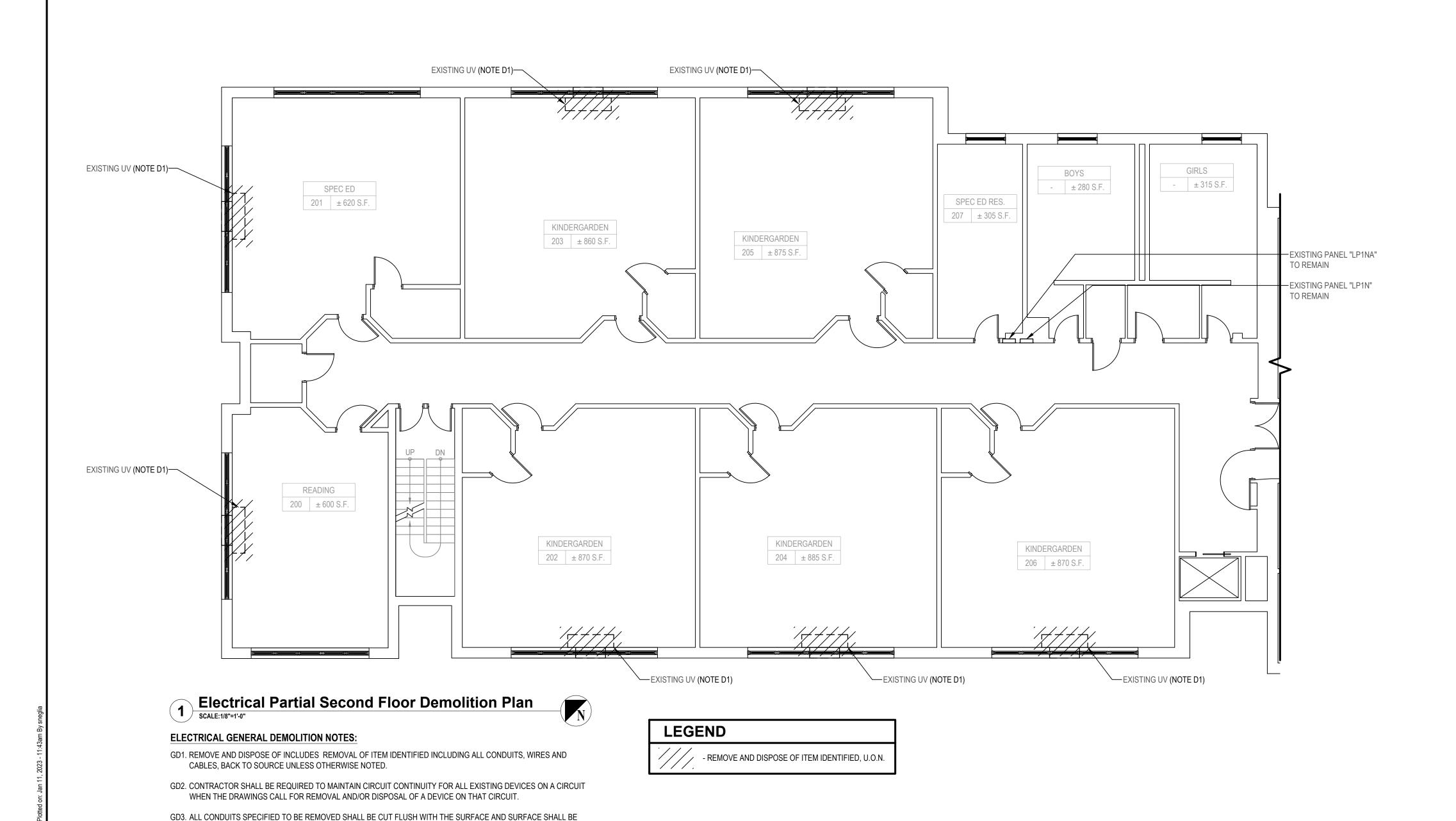
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CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

ED 111.00



PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS

GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW

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DISPOSE OF ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE EXISTING HVAC EQUIPMENT SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO DISCONNECT SWITCHES, MOTOR STARTERS, ASSOCIATED FIRE ALARM DEVICES, WIRE AND CONDUIT BACK TO SOURCE. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL

GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN,

ELECTRICAL GENERAL FIRE ALARM NOTE:

ELECTRICAL DEMOLITION KEY NOTE:

INFORMATION.

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CONTRACT E
ELECTRICAL CONSTRUCTION

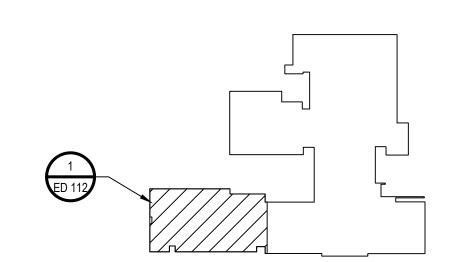
FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL PARTIAL SECOND FLOOR DEMOLITION PLAN

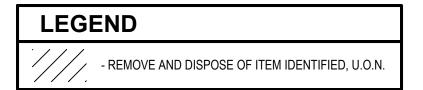
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ED 112.00









ELECTRICAL GENERAL DEMOLITION NOTES:

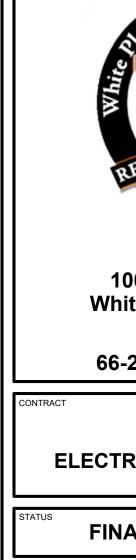
- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

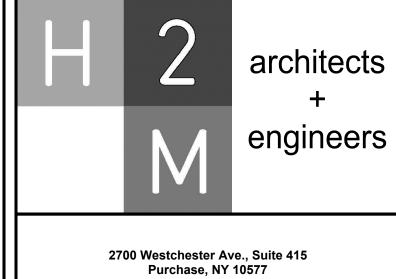
ELECTRICAL GENERAL FIRE ALARM NOTE:

GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING, RELOCATING AND/OR MODIFYING EXISTING AND/OR NEW FIRE ALARM DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

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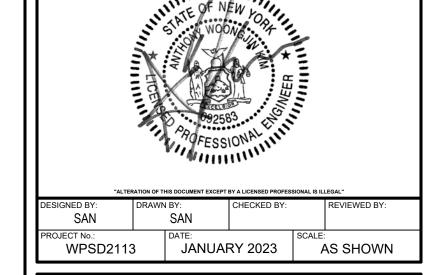


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CONTRACT E
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EET TITLE

1 ED 120

Key Plan SCALE:NTS

ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN

NG No.

ED 120.00



ELECTRICAL GENERAL DEMOLITION NOTES:

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GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.

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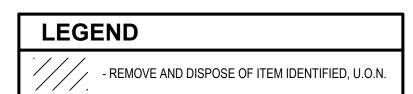
GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS

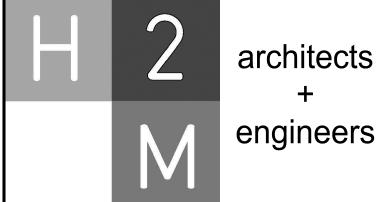
ELECTRICAL GENERAL FIRE ALARM NOTE:

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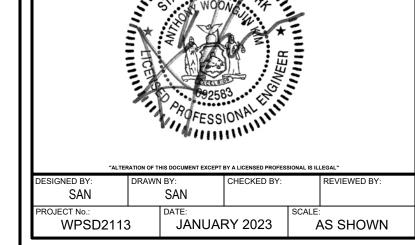




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CONTRACT E
ELECTRICAL CONSTRUCTION

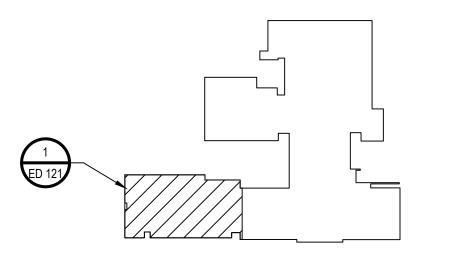
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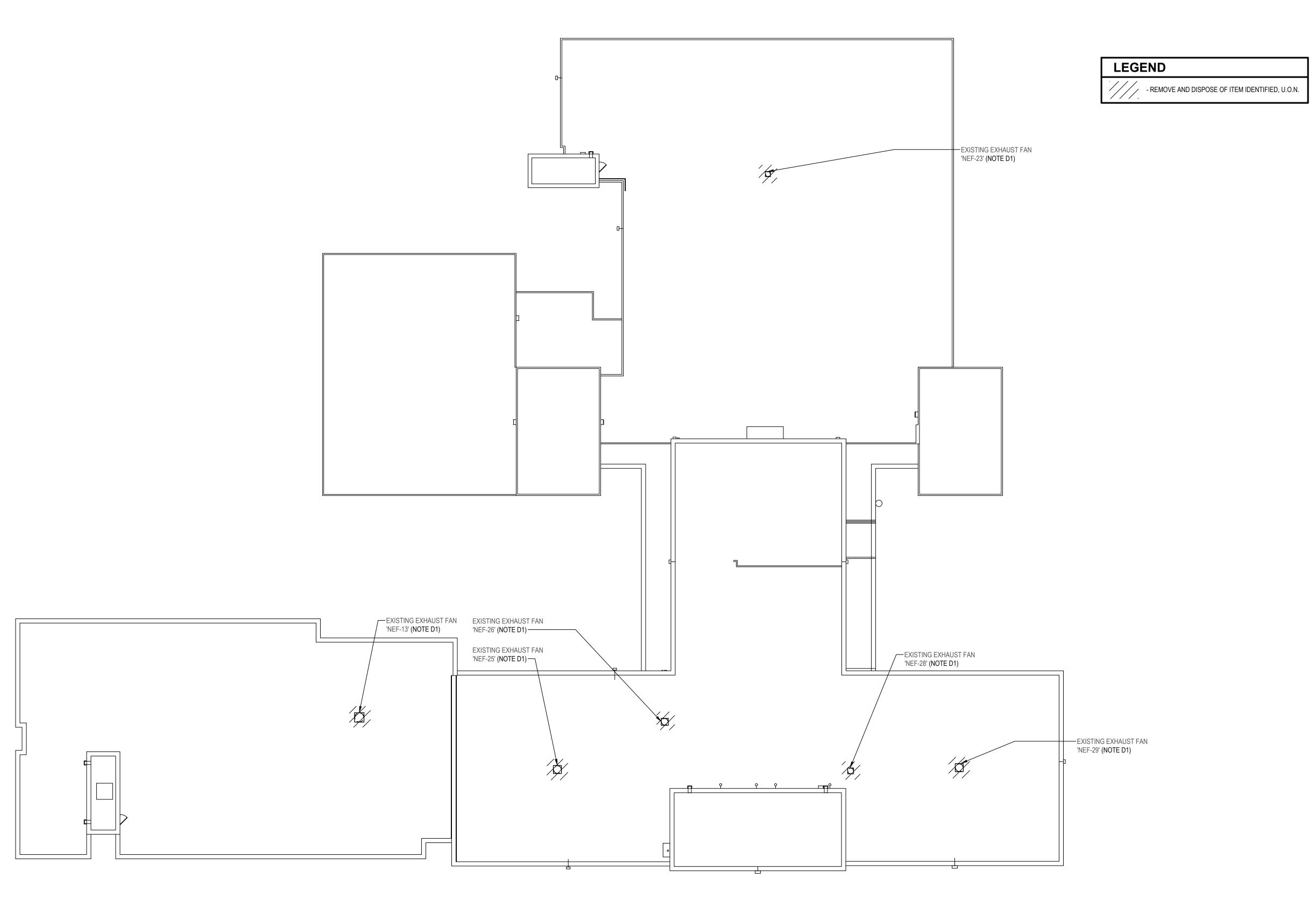
ELECTRICAL PARTIAL THIRD FLOOR DEMOLITION PLAN

DRAWING No

ED 121.00



Key Plan
SCALE:NTS



1 Electrical Roof Demolition Plan SCALE:1/16"=1'-0"

ELECTRICAL GENERAL DEMOLITION NOTES:

- GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.
- GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.
- GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.
- GD4. WHERE CONDUITS AND WIRING PASS THROUGH WORK AREA AND/OR ARE SCHEDULED TO REMAIN, CONTRACTOR SHALL REROUTE EXISTING CONDUIT AND WIRING. PROVIDE CONDUIT, WIRE, AND JUNCTION BOXES AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. COORDINATE WITH OTHER TRADES AS REQUIRED.

ELECTRICAL GENERAL FIRE ALARM NOTE:

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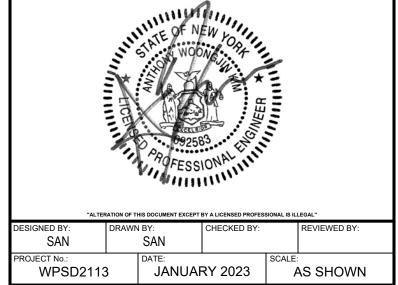


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CONTRACT E
ELECTRICAL CONSTRUCTION

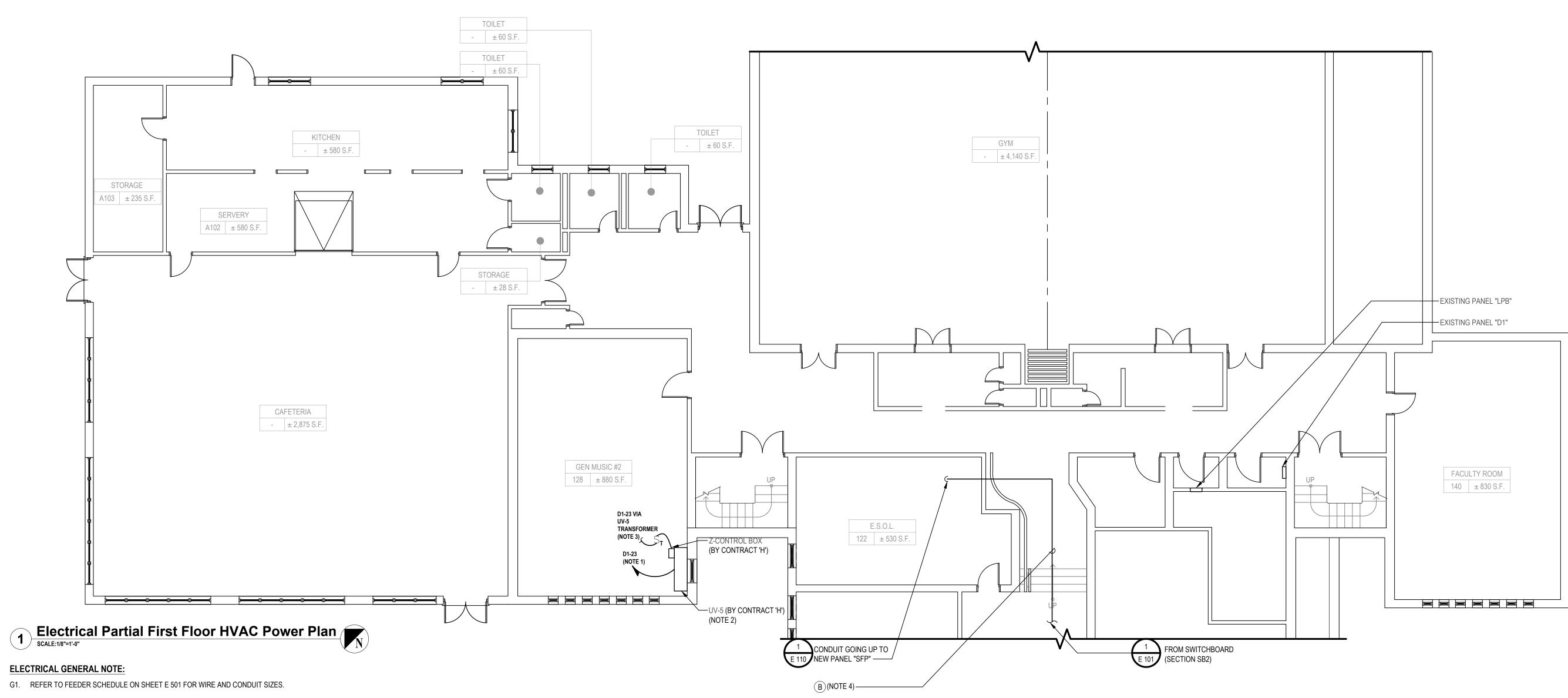
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ELECTRICAL ROOF DEMOLITION PLAN

DRAWING No.

ED 130.00



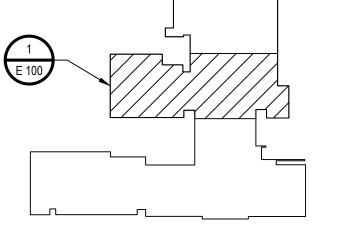
ELECTRICAL KEY NOTES:

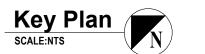
1. CONTRACTOR SHALL REMOVE AND CLEAN EXISTING 20A/1P SPARE CIRCUIT BREAKER AND TURN OVER TO SCHOOL DISTRICT. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.

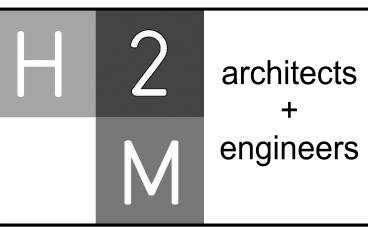
MANUFACTURER PROVIDED DISCONNECT SWITCH.

3. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z-CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED. FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS AND SCHEDULE FOR ADDITIONAL INFORMATION.

4. CONTRACTOR SHALL NOTE THAT ALL CONDUITS SHALL BE INSTALLED ABOVE DROP CEILING.



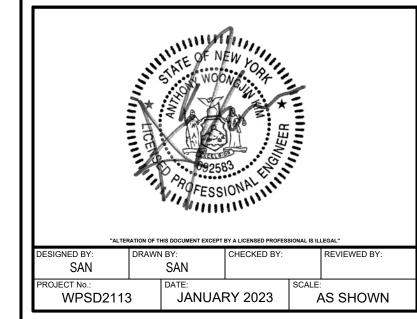




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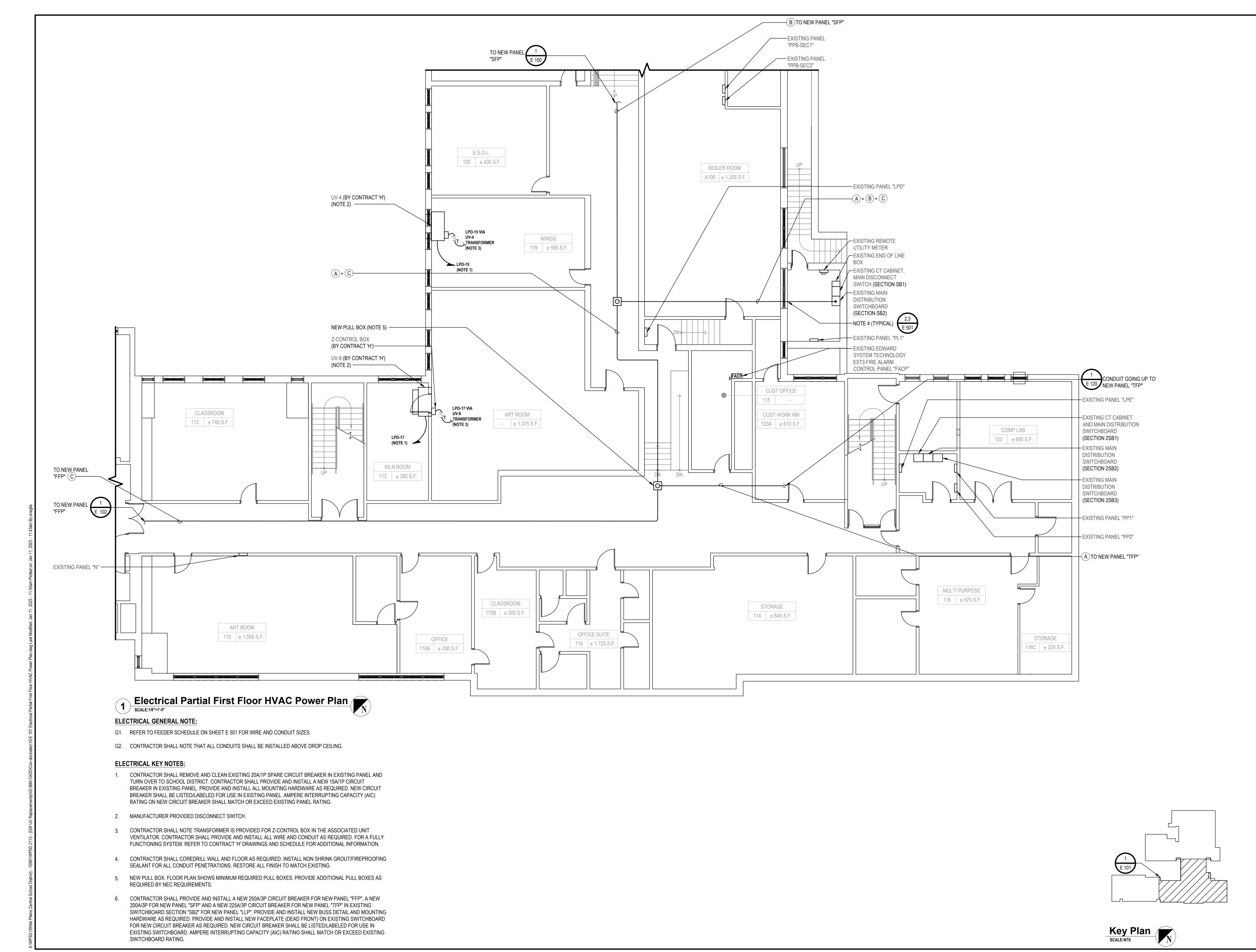
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CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

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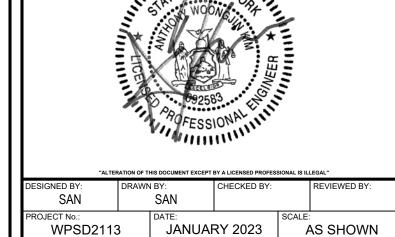


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CONTRACT E
ELECTRICAL CONSTRUCTION

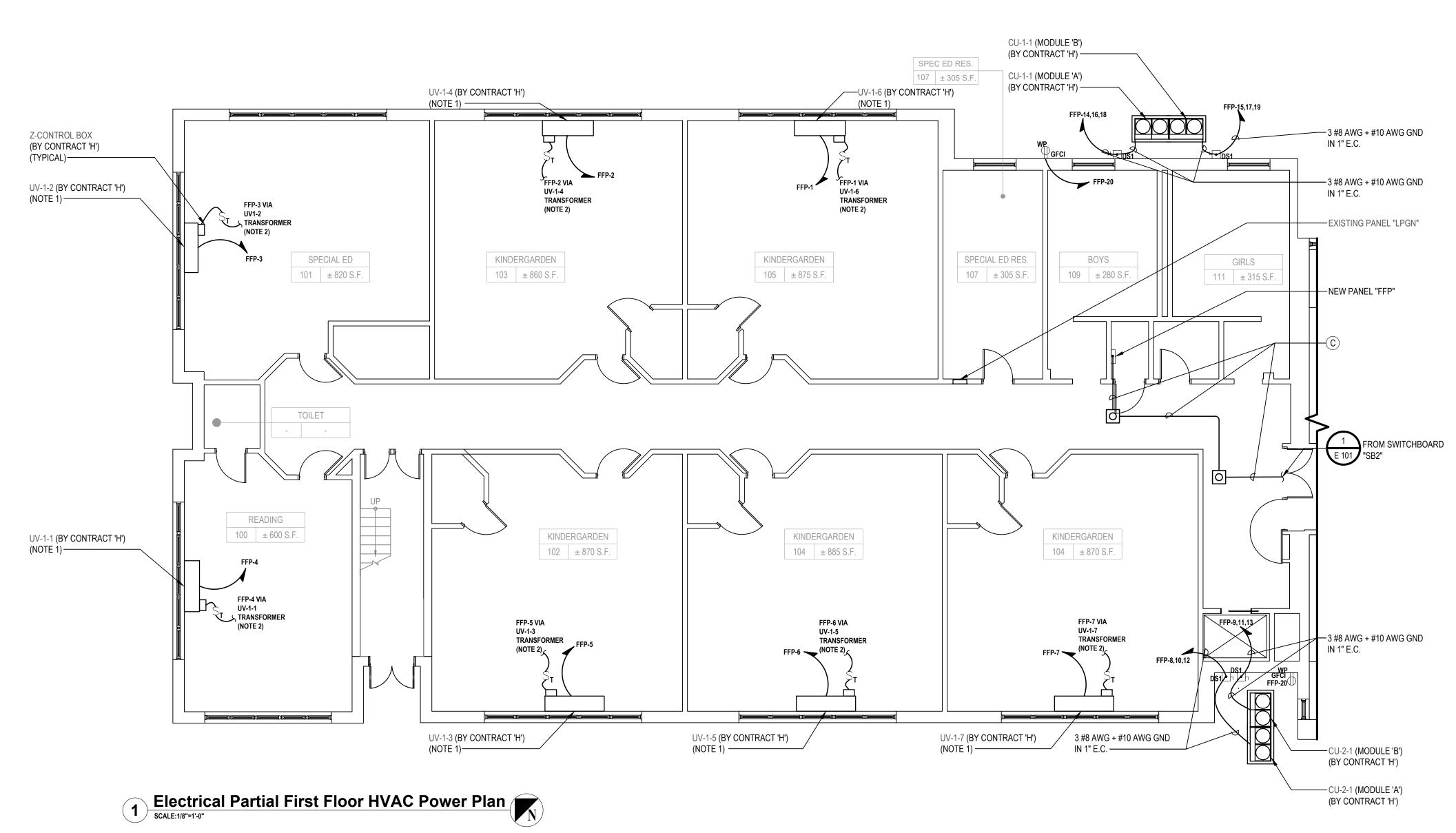
FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

DRAWING No

E 101.00

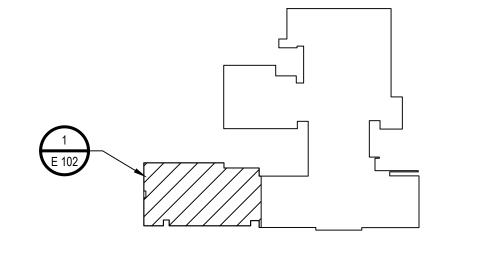


ELECTRICAL GENERAL NOTES:

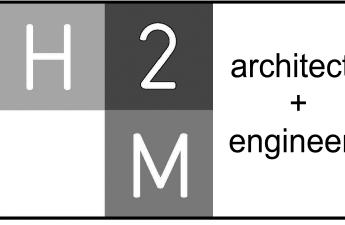
- G1. REFER TO FEEDER SCHEDULE ON SHEET E 501 FOR WIRE AND CONDUIT SIZES.
- G2. CONTRACTOR SHALL NOTE CONDENSING UNITS CONSISTS OF MULTIPLE MODULES WITH DIFFERENT ELECTRICAL REQUIREMENT. VERIFY EXACT LOCATION OF MODULES WITH CONTRACT 'H' PRIOR TO TERMINATING EACH CIRCUITS.
- G3. CONTRACTOR SHALL NOTE THAT ALL CONDUITS SHALL BE INSTALLED ABOVE DROP CEILING.

ELECTRICAL KEY NOTES:

- 1. MANUFACTURER PROVIDED DISCONNECT SWITCH.
- 2. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z-CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED. FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS AND SCHEDULE FOR ADDITIONAL INFORMATION.



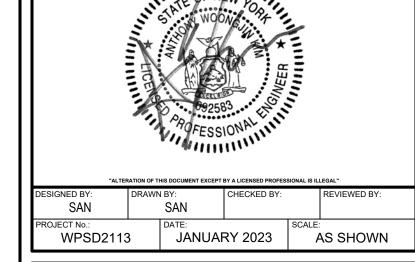




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CONTRACT E
ELECTRICAL CONSTRUCTION

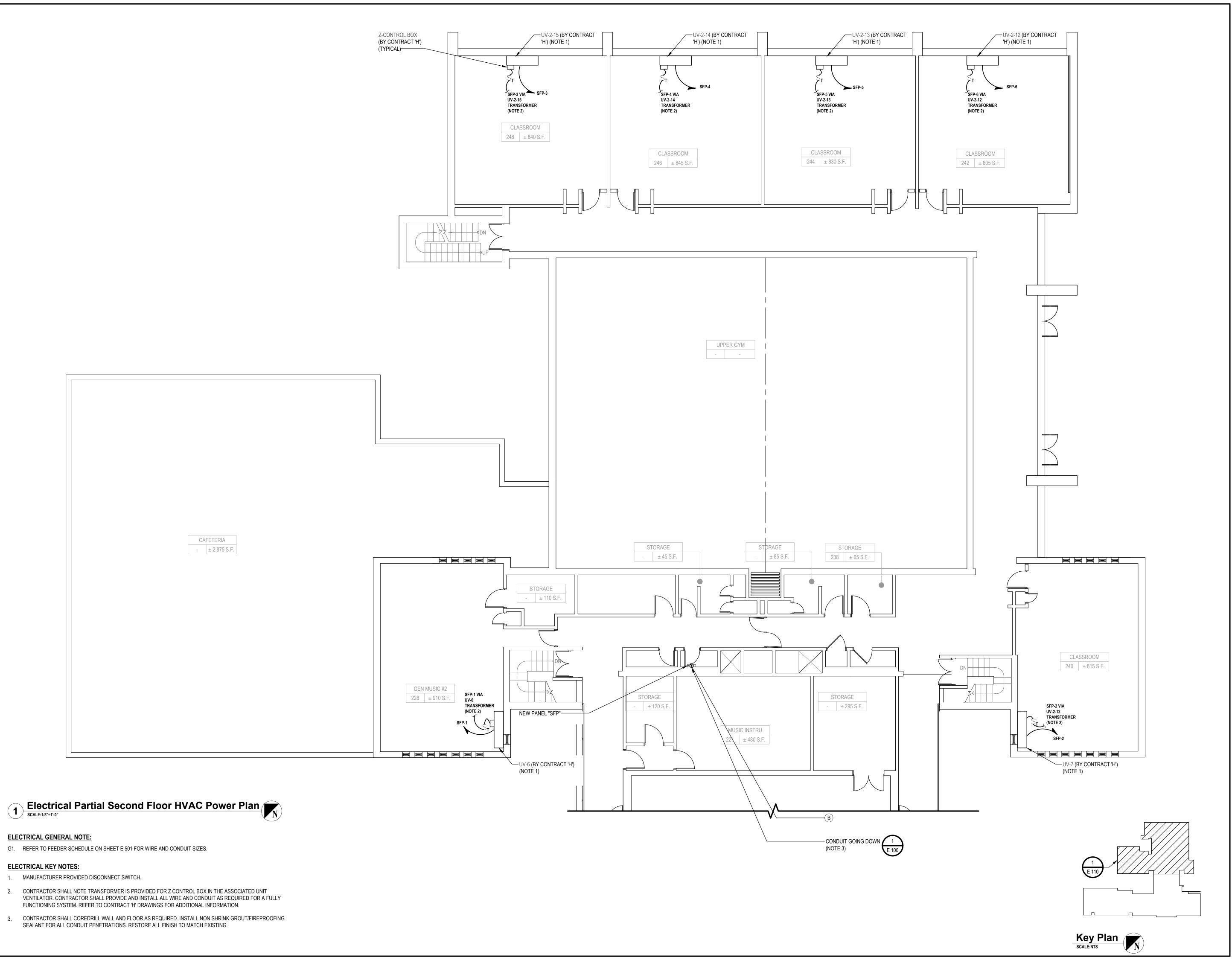
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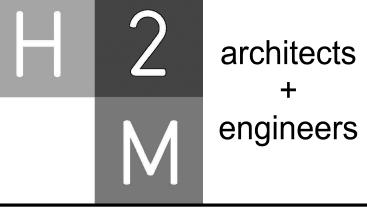
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ELECTRICAL PARTIAL FIRST FLOOR HVAC POWER PLAN

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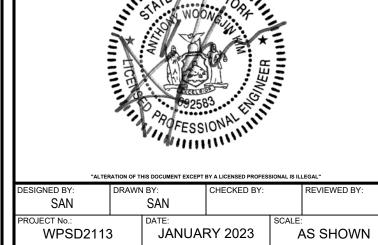




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CONTRACT E
ELECTRICAL CONSTRUCTION

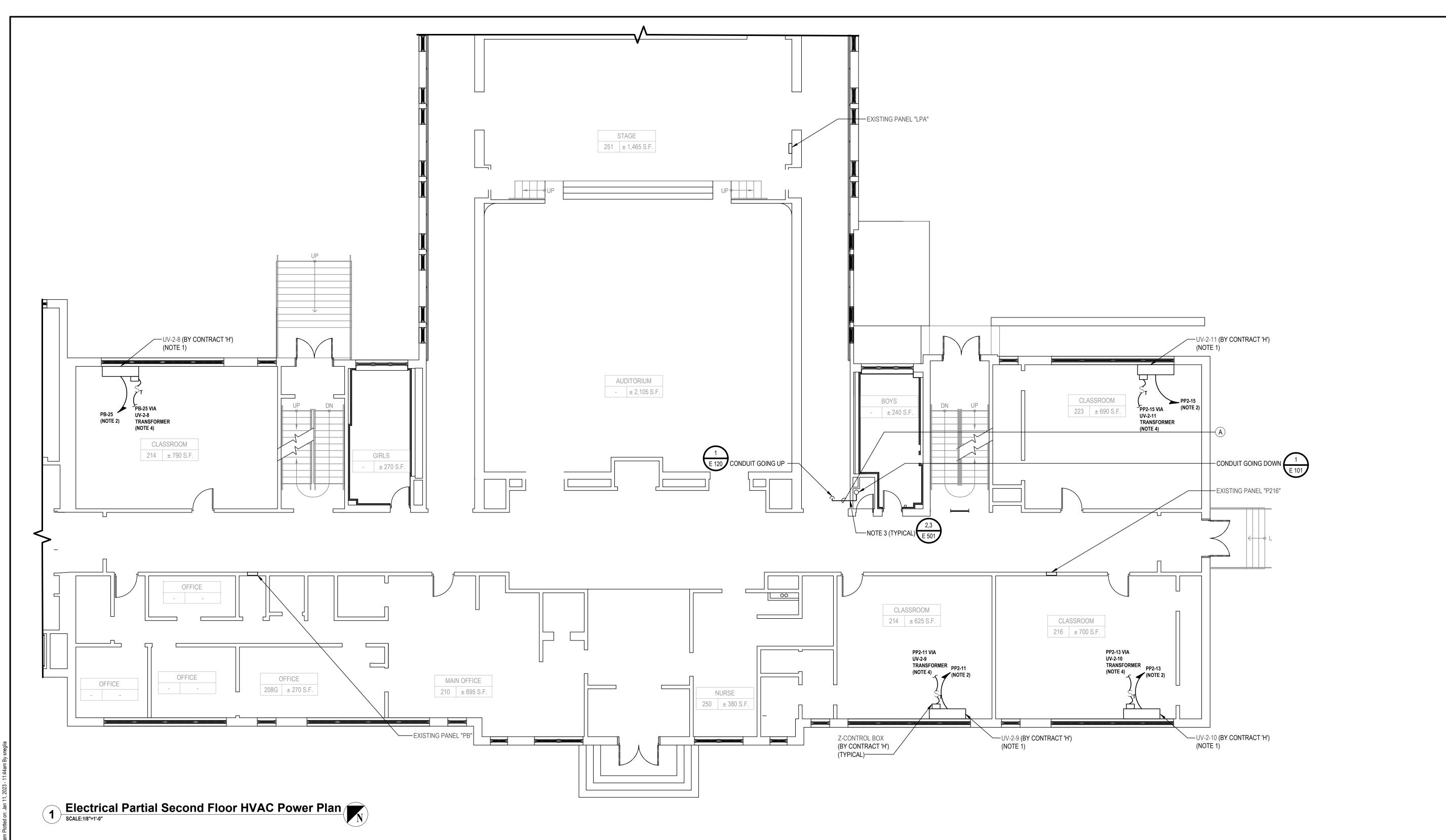
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ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

AWING No.

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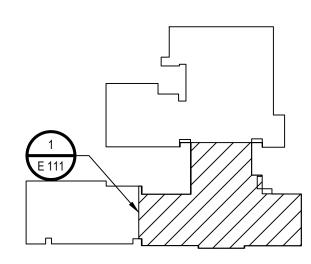


ELECTRICAL GENERAL NOTE:

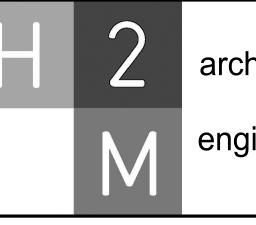
- G1. REFER TO FEEDER SCHEDULE ON SHEET E 501 FOR WIRE AND CONDUIT SIZES.
- G2. CONTRACTOR SHALL NOTE THAT ALL CONDUITS SHALL BE INSTALLED ABOVE DROP CEILING.

ELECTRICAL KEY NOTES:

- MANUFACTURER PROVIDED DISCONNECT SWITCH.
- CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- 3. CONTRACTOR SHALL COREDRILL WALL AND FLOOR AS REQUIRED. INSTALL NON SHRINK GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.
- CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.

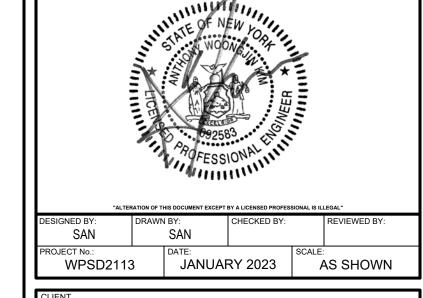


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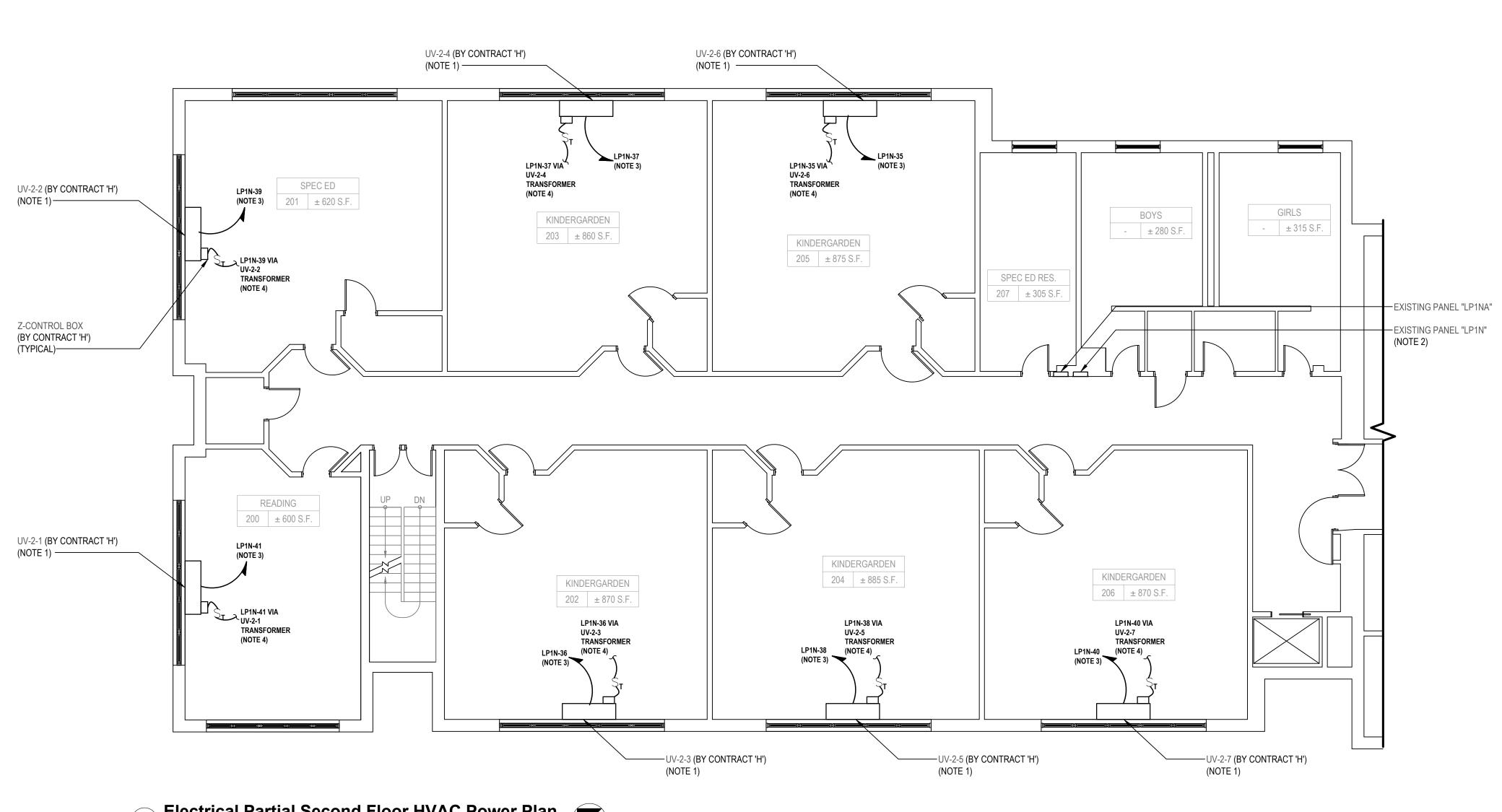
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ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

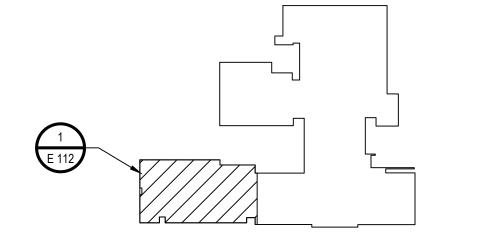
E 111.00



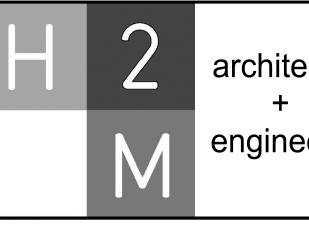
1 Electrical Partial Second Floor HVAC Power Plan SCALE:1/8"=1'-0"

ELECTRICAL KEY NOTES:

- 1. MANUFACTURER PROVIDED DISCONNECT SWITCH.
- 2. CONTRACTOR SHALL CUT BLOCK / PLASTER WALL AS REQUIRED TO RECESS NEW CONDUIT ABOVE EXISTING RECESSED MOUNTED PANEL. PATCH, PRIME AND PAINT WALL TO MATCH EXISTING.
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
- 4. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.



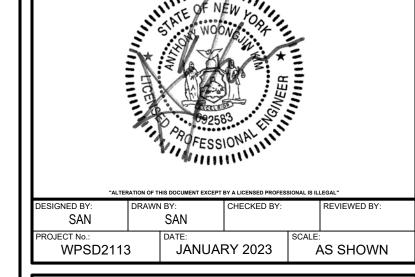




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ONSULTANTS:

MARK	DATE	DESCRIPTION



White Plains City School District

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

CONTRACT E
ELECTRICAL CONSTRUCTION

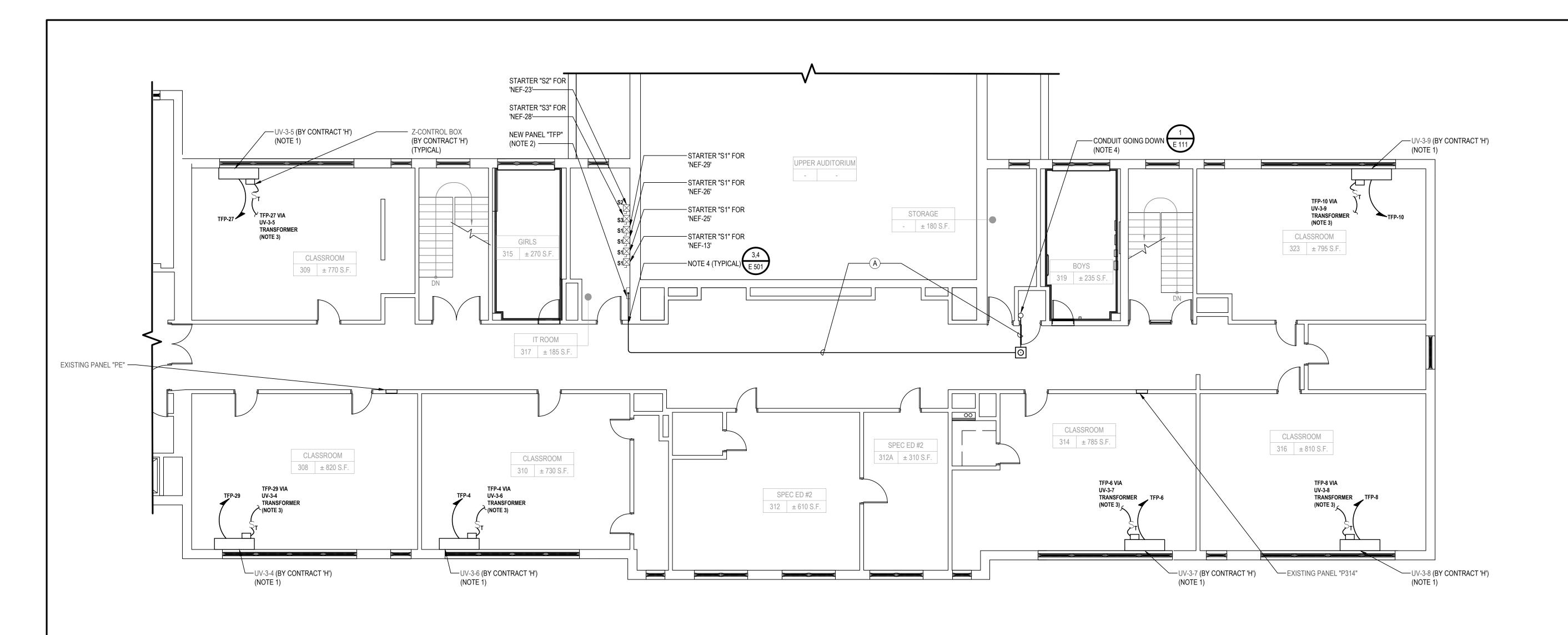
FINAL BID DOCUMENT

HEET TITLE

ELECTRICAL PARTIAL SECOND FLOOR HVAC POWER PLAN

IG No.

E 112.00





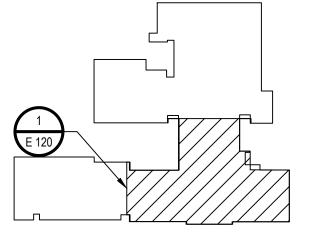


ELECTRICAL GENERAL NOTE:

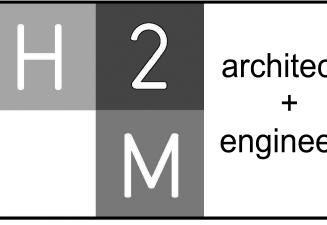
- G1. REFER TO FEEDER SCHEDULE ON SHEET E 501 FOR WIRE AND CONDUIT SIZES.
- G2. CONTRACTOR SHALL NOTE THAT ALL CONDUITS SHALL BE INSTALLED ABOVE DROP CEILING.

ELECTRICAL KEY NOTES:

- 1. MANUFACTURER PROVIDED DISCONNECT SWITCH.
- CONTRACTOR SHALL COORDINATE WITH SCHOOL DISTRICT FOR THE REMOVAL AND RELOCATION OF EXISTING FILE CABINET ON THIS WALL.
- 3. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.
- 4. CONTRACTOR SHALL COREDRILL WALL AND FLOOR AS REQUIRED. INSTALL NON SHRINK GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.

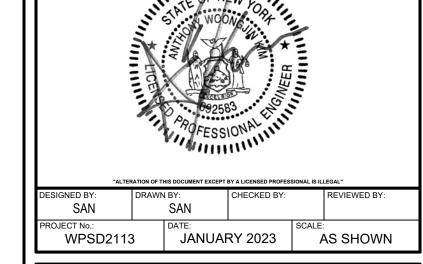






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MARK	DATE	DESCRIPTION



White Plains City School District

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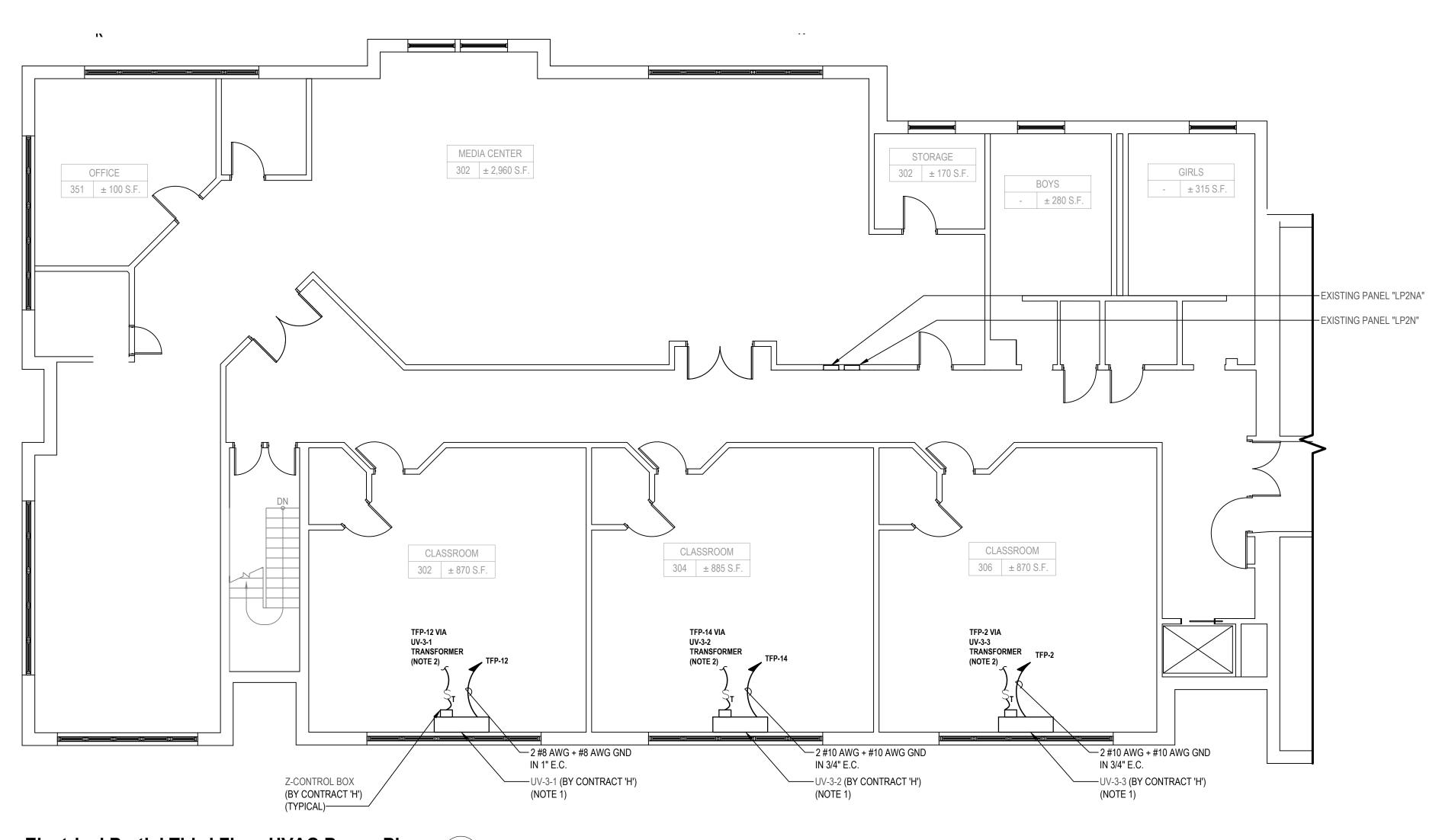
66-22-00-01-0-009-017

CONTRACT E ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN

E 120.00



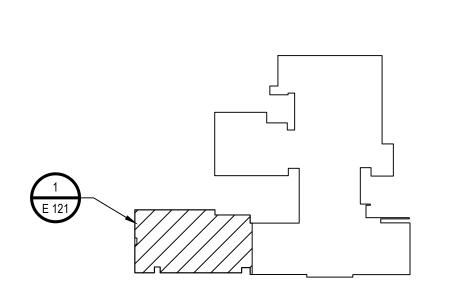
1 Electrical Partial Third Floor HVAC Power Plan
SCALE: 1/8"=1'-0"

ELECTRICAL GENERAL NOTE:

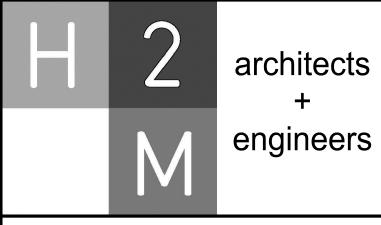
1. REFER TO DRAWING E 120 FOR LOCATION OF PANEL "TFP".

ELECTRICAL KEY NOTES:

- 1. MANUFACTURER PROVIDED DISCONNECT SWITCH.
- 2. CONTRACTOR SHALL NOTE TRANSFORMER IS PROVIDED FOR Z CONTROL BOX IN THE ASSOCIATED UNIT VENTILATOR. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM. REFER TO CONTRACT 'H' DRAWINGS FOR ADDITIONAL INFORMATION.



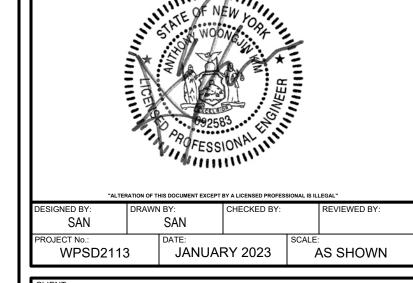




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UV Replacements at the George Washington Elementary School



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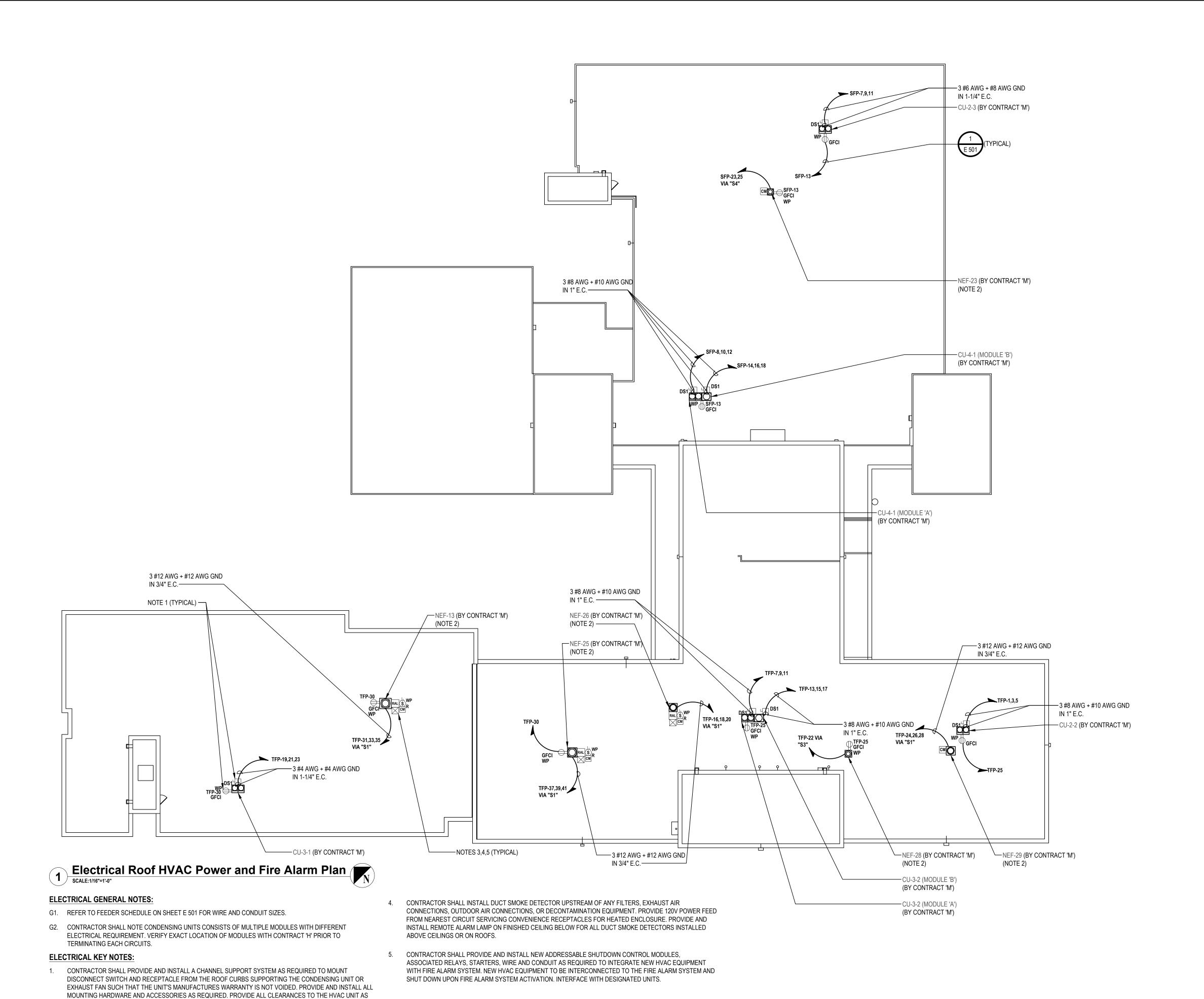
CONTRACT E
ELECTRICAL CONSTRUCTION

FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL PARTIAL THIRD FLOOR HVAC POWER PLAN

E 121.00



MANUFACTURER PROVIDED DISCONNECT SWITCH. PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS

CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO

MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" USING MANUFACTURER'S

RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDES TO NEW FIRE ALARM DEVICE LOCATION. REFER TO FLOOR PLANS FOR APPROXIMATE LOCATION OF EXISTING FACP. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. TYPICAL OF ALL

REQUIRED TO TERMINATE EQUIPMENT VIA FACTORY SHIPPED DISCONNECT SWITCH.

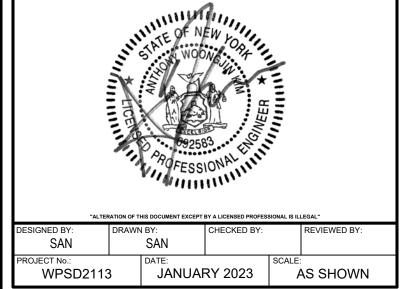
FIRE ALARM DEVICES.

1 2 arcl

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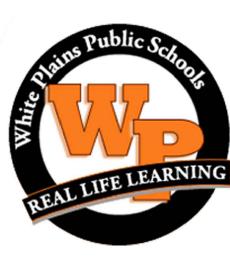
CONSULTANTS:

MARK	DATE	DESCRIPTION



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UV Replacements at the George Washington Elementary School



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CONTRACT E
ELECTRICAL CONSTRUCTION

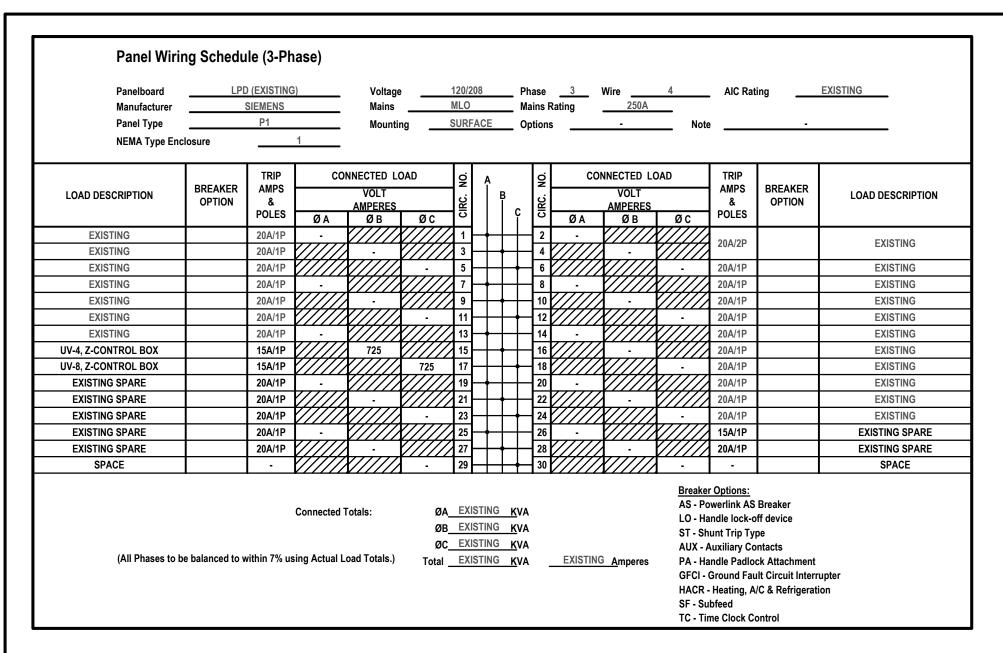
FINAL BID DOCUMENT

SHEET TITLE

ELECTRICAL ROOF HVAC POWER AND FIRE ALARM PLAN

AWING No.

E 130.00



Panelboard Manufacturer Panel Type	•	D1 (EXISTING) SIEMENS P1		ENS Mains 100A MCB Mains Rating			Wire	250A							
NEMA Type End	closure		1												
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CO Ø A	NNECTED LO VOLT AMPERES Ø B		CIRC. NO.	А В 		CIRC. NO.	Ø A	ONNECTED LOA VOLT AMPERES Ø B	Ø C	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P	-			71	+	+[2		V////X		20A/1P		EXISTING
EXISTING		15A/2P		/////	/////	3 5		+	4			///// -	25A/2P		EXISTING
EXISTING		20A/2P	/////	////// -		7 9		\pm	8 10				15A/2P		EXISTING
					·	11	++	+[12		X////		20A/1P		EXISTING
EXISTING		30A/3P	-			13	+	+	14				20A/1P		EXISTING
						15	++	+	16				20A/1P		SPARE
					1 -	17	+	+	18		<i>X////</i>	-	20A/1P		SPARE
EXISTING		40A/3P	<u> </u>			19	++	+	20		<u> </u>		20A/1P		SPARE
				1		21	+	+	22				20A/1P		SPARE
UV-5, Z- CONTROL BOX		15A/1P			756	23	++	┽┨	24		<u> </u>	-	20A/1P		SPARE
SPARE		20A/1P	<u> </u>			25	++	╫	26		<u> </u>		20A/1P		SPARE
SPARE		20A/1P		1		27	+	╫	28		<u> </u>		20A/1P		SPARE
SPARE		20A/1P			1	29	++	┽┨	30	<u>////</u>	<i>X////</i>	-	20A/1P		SPARE
SPARE		20A/1P	<u> </u>			31	+	+	32	<u> </u>	<i>\////</i>		20A/1P		SPARE
SPARE		20A/1P		1		33	+	+	34		<u> </u>		20A/1P		SPARE
SPARE		20A/1P			1 -	35 -	+	+	36	<u>////</u>	<i>X////</i>	-	20A/1P		SPARE
SPARE		20A/1P	<u> </u>		<i>\////</i>	37	+	+	38		V///X		20A/1P		SPARE
SPARE		20A/1P		1	<u> </u>	39	++	+	40		<u> </u>		20A/1P		SPARE
SPARE		20A/1P		<u> </u>	<u> </u>	41		丑	42	<u>////</u>	<u> </u>	-	20A/1P		SPARE
(All Phases to b	pe balanced to v		Connected		ØB ØC	EXIS	TING TING	KVA KVA	_	EXISTII	NG <u>A</u> mperes	AS - Po LO - Ha ST - Shi AUX - A PA - Ha GFCI - (Ground Fau Heating, A	off device pe	

Panelboard Manufacturer Panel Type NEMA Type En		(EXISTING) SIEMENS P1	1	Voltage Mains Mountir		MLO RECES		Ma		ating	Wire250A		_	ing <u> </u>	EXISTING
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES		NNECTED LO VOLT AMPERES ØB	OAD Ø C	CIRC. NO.	А В 	С	CIRC. NO.	CC Ø A	ONNECTED L VOLT AMPERES Ø B		TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P				1	+	+	2				20A/1P		EXISTING
EXISTING		20A/1P		<u> </u>		3	+	+	4		<u> </u>		20A/1P		EXISTING
EXISTING		20A/1P	<u>/////</u>		<u> </u>	5	\dashv	\dashv	6	<u>/////</u>	<i>X/////</i>	1	20A/1P		EXISTING
EXISTING		20A/1P				27	\dashv	+	8		<u> </u>	<i>\////</i>	20A/1P		EXISTING
EXISTING		20A/1P		<u> </u>		9	- - 	+	10		<u> 1 ·</u>		20A/1P		EXISTING
EXISTING		20A/1P	<u>/////</u>		<u> </u>	11	\dashv	\dashv	12	<u>/////</u>	<i>X/////</i>	<u> 1 ·</u>	20A/1P		EXISTING
EXISTING		20A/1P				13	\dashv		14	-	<i>\////</i>	<i>X/////</i>	20A/1P		EXISTING
EXISTING		20A/1P				15	+	+	16		<u> </u>		20A/1P		EXISTING
EXISTING		20A/1P			<u> </u>	17	\dashv	+	18		X/////	1	20A/1P		EXISTING
EXISTING		20A/2P	//////	///// ·		19 21		\pm	20	/////	<i>/////</i>		20A/2P		EXISTING
EXISTING		20A/1P				23	-	\rightarrow	24		X/////	1	20A/1P		EXISTING
UV-2-8, Z-CONTROL BOX		15A/1P	725			25	\dashv	+	26	725		X/////	15A/1P		UV-2-9, Z-CONTROL BOX
UV-2-11, Z-CONTROL BOX		15A/1P	//////	725		27	\rightarrow	+	28	/////	7	V/////	-		SPACE
UV-2-10, Z-CONTROL BOX		15A/1P			725	29	+	\dashv	30		X/////	7	-		SPACE
(All Phases to I	pe balanced to v		Connected 1		ØE ØC	EXI	STING STING STING	KVA KVA		EXISTIN	G <u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI -	Ground Fau	ff device pe	

Panelboard Manufacturer Panel Type	S	N (EXISTING QUARE D NQOD		Voltage Mains Mountii	150	120/2 DA MO		_ Ma	nase ains F ptions	Rating	150A -	Note		ing <u>E</u>	XISTING
NEMA Type En	closure		1												
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CO Ø A	NNECTED LO VOLT AMPERES Ø B	OAD Ø C	CIRC. NO.	A	B C	CIRC. NO.	CO Ø A	NNECTED L VOLT AMPERES Ø B	OAD Ø C	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P		177777	17777	1	ightarrow	$\sqcup \!\!\!\! \perp$	2		17777	177777	20A/1P		EXISTING
EXISTING		20A/1P	/////			3	\perp	₩	4	/////	1		20A/1P		EXISTING
EXISTING		20A/1P		//////		5	-	$\vdash \downarrow$	6		X/////		20A/1P		EXISTING
EXISTING		20A/1P			/////	7	\rightarrow	$\vdash \vdash$	8	-		//////	20A/1P		EXISTING
EXISTING		20A/1P	/////	-		9		₩	10		1		20A/1P		EXISTING
EXISTING		20A/1P		//////		11		$\vdash \vdash$	12		X/////		20A/1P		EXISTING
EXISTING		20A/1P			/////	13	\rightarrow	\vdash	14	-			20A/1P		EXISTING
EXISTING		20A/1P	/////			15		₩	16		1		20A/1P		EXISTING
EXISTING		20A/1P		//////		17	_	$\vdash \vdash$	18		X/////		20A/1P		EXISTING
EXISTING		20A/1P			/////	19	\rightarrow	$\vdash\vdash$	20	-		1/////	20A/1P		EXISTING
EXISTING		20A/1P				21	_	╀	22		1 .		20A/1P		EXISTING
EXISTING		20A/1P		/////		23		┝	24		X/////		20A/1P		EXISTING
EXISTING		20A/1P				25	\vdash	₩	26				20A/1P		EXISTING
EXISTING		20A/1P				27	-	₩	28		1 .		20A/1P		EXISTING
EXISTING	İ	20A/1P		/////		29	+	$\vdash \vdash$	30		X/////		20A/1P		EXISTING
EXISTING		100A/2P	· · · · · · · · · · · · · · · · · · ·	<i>//////</i>		31 33			32 34		<i>/////</i>		20A/2P		EXISTING
JV-2-6, Z-CONTROL BOX		15A/1P			725	35	-	┝	36			725	15A/1P		UV-2-3, Z-CONTROL BOX
JV-2-4, Z-CONTROL BOX		15A/1P	725			37	\vdash	$\vdash\vdash$	38	725			15A/1P		UV-2-5, Z-CONTROL BOX
JV-2-2, Z-CONTROL BOX		15A/1P		725		39		\vdash	40		725		15A/1P		UV-2-7, Z-CONTROL BOX
UV-2-1, Z-CONTROL BOX		15A/1P			725	41		\vdash	42			-	-		SPACE
(All Phases to	be balanced to v	vithin 7% us	Connected 1		ØB_	EXI	STING STING	KVA KVA KVA KVA	i I	EXISTIN	G <u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha		ff device pe	nter

TC - Time Clock Control

Panelboard Manufacturer		(EXISTING)	Voltage Mains		120/2)A M(_	hase ains l	3 Nating	Vire	4	AIC Rat	ing	EXISTING
Panel Type		S1		Mountii	ng 🥌	SURF	ACE	0	ption	s	-	Note	·	-	
NEMA Type Encl	osure		1						•						
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CO Ø A	NNECTED LO VOLT AMPERES Ø B	Ø C	CIRC. NO.	A	В с	CIRC. NO.	CON Ø A	VOLT AMPERES ØB	OAD Ø C	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTIO
EXISTING		30A/3P		/////		1 3			2		/////		20A/1P 20A/1P		EXISTING EXISTING
				//////		5	\vdash	\vdash	- 6				20A/1P		EXISTING
EXISTING		20A/1P			//////	7	$\vdash \vdash$	\vdash	8	-		1/////	20A/1P		EXISTING
EXISTING		20A/1P	/////			9	$\vdash \vdash$	+	10		-		15A/1P		EXISTING SPARE
UV-2-9, Z CONTROL BOX		15A/1P		//////	725	11	╙	$\vdash \downarrow$	12		/////		15A/1P		EXISTING SPARE
UV-2-10, Z CONTROL BOX		15A/1P	725		/////	13	$\vdash \vdash$	\vdash	14			//////	15A/1P		EXISTING SPARE
UV-2-11, Z CONTROL BOX		15A/1P	/////	725		15	╙	\vdash	16				-		SPACE
SPACE		-		1/////		17	\vdash	$\vdash \!\!\!\! +$	18				-		SPACE
SPACE		-				19	$\vdash \vdash$	₩	20	-			-		SPACE
SPACE		-		-		21	⊣	++	22				-		SPACE
SPACE		-				23	₩	+	24				-		SPACE
SPACE		-				25	⊢	₩	26				-		SPACE
SPACE		-				27	₩	+	28		-		-		SPACE
SPACE		-				29	₩	╁	30				-		SPACE
SPACE		-				31	⊢	₩	32				-		SPACE
SPACE		-		-		33	$\vdash \vdash$	+	34		-		-		SPACE
SPACE		-			-	35	$\vdash \vdash$	+	36			-	-		SPACE
SPACE		-				37	$\vdash \vdash$	++	38	-			-		SPACE
SPACE		-		1		39	\vdash	++	40		-		-		SPACE
SPACE		-			-	41	$\vdash\vdash$	+	42			1 - 1	-		SPACE
(All Phases to be	e balanced to w		Connected 1		ØB_	EXI	ISTING ISTING	KVA KVA KVA	١	EXISTING	<u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI - (Ground Fau	off device pe	•

Panelboard Manufacturer Panel Type	-	SIEMENS P1		Voltage Mains		MLO RECE			Mains F	Rating	Wire 250A		_	ing <u>E</u>	XISTING
NEMA Type End	closure		1	Mounti	ng	KEGE	SSEI	<u> </u>	Options	·	-	Not	·	<u> </u>	
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS &	COI	NNECTED L	OAD	C. NO.	A	B	C. NO.	со	NNECTED L		TRIP AMPS &	BREAKER OPTION	LOAD DESCRIPTION
	OPTION	POLES	ØΑ	AMPERES Ø B	ØС	CIRC.		ļç	CIRC.	ØΑ	AMPERES Ø B	Øc	POLES	OPTION	
EXISTING		20A/1P	-		/////	1	$\vdash \vdash$	+	_ 2	-	/////	1////	20A/1P		EXISTING
EXISTING		20A/1P				3	\vdash	\dashv	4				20A/1P		EXISTING
EXISTING		20A/1P				5	\vdash	\rightarrow	- 6			1 .	20A/1P		EXISTING
EXISTING		20A/1P	-			7	\vdash	++	- 8	-		X/////	20A/1P		EXISTING
EXISTING		20A/1P				9	\vdash	\rightarrow	10				20A/1P		EXISTING
EXISTING		20A/1P				11	\vdash	\rightarrow	12			1 .	20A/1P		EXISTING
EXISTING		20A/1P	-		/////	13	$\vdash \vdash$	+	14	-		X/////	20A/1P		EXISTING
EXISTING		20A/1P				15	\vdash	\dashv	16				20A/1P		EXISTING
EXISTING		20A/1P				17	\vdash	\rightarrow	18			1 .	20A/1P		EXISTING
EXISTING		20A/1P				19	\mapsto	+	20	-		X/////	004/00		EVICTING
EXISTING		20A/1P				21	\vdash	\rightarrow	22				20A/2P		EXISTING
EXISTING		20A/1P				23	\vdash	\rightarrow	24			1 .	20A/1P		EXISTING
UV-2-8, Z-CONTROL BOX		15A/1P	725		1////	25	\mapsto	++	26	-		X/////	-		SPACE
SPACE		-				27	\vdash	+	28		1 -	V////	-		SPACE
SPACE		-				29	Н	\rightarrow	30			7	-		SPACE
(All Phases to b	e balanced to v		Connected T		ØB ØC	EXI	ISTIN ISTIN	IG KV IG KV IG KV	/A /A	EXISTING	<u>A</u> mperes	AS - Po LO - Ha ST - SH AUX - A PA - Ha GFCI -	Ground Fau	ff device pe	

Panelboard Manufacturer Panel Type		FFP SIEMENS P2		Voltage Mains Mountir	25	120/20 0A MC SURF	В	Ma		ating	Wire 250A	4 Note	AIC Rat	ing	42,000
NEMA Type End	closure		1	Modifil	·9 <u> </u>	001417	IOL	_	110113						
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	COI	NNECTED LO VOLT AMPERES Ø B	OAD Ø C	CIRC. NO.	А В Н	Ç	CIRC. NO.	COI Ø A	VOLT AMPERES Ø B	DAD Ø C	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIP
UV-1-6, Z-CONTROL BOX		15A/1P	725			11	+	-	2	725			15A/1P		UV-1-4, Z-CONTR
UV-1-2, Z-CONTROL BOX		15A/1P		725		3 -	\rightarrow	_	4		725		15A/1P		UV-1-1, Z-CONTR
UV-1-3, Z-CONTROL BOX		15A/1P			725	5	++	+	6			725	15A/1P		UV-1-5, Z-CONTR
UV-1-7, Z-CONTROL BOX		15A/1P	725			7	++	+	8	4359					
CU-2-1 (MODULE 'B')	HACR	45A/3P	4359	4359	4359	9 11 13			10 12 14	4356	4359	4359	45A/3P	HACR	CU-2-1 (MODUI
CU-1-1 (MODULE 'B')	HACR	45A/3P		4359	4359	15 17		+	16 18		4356	4356	45A/3P	HACR	CU-1-1 (MODUL
			4359	/////		19	11		20	360			20A/1P		CONVENIENCE REC
SPARE	_	20A/1P	<i>\////</i>	1 .		21	11	\top	22	/////	· /////		20A/1P		SPARE
SPARE		20A/1P	<i>[/////</i>	Y/////		23	$\dashv \dashv$	\dashv	24	/////		· · · · · · · · · · · · · · · · · · ·	20A/1P		SPARE
SPARE		20A/1P	· · · · · · · · · · · · · · · · · · ·	<i>[/////</i>		25	+		26		/////		20A/1P		SPARE
SPARE		20A/1P	<i>\////</i>	1 .		27	+	\top	28		· · · · · · · · · · · · · · · · · · ·		20A/1P		SPARE
SPARE		20A/1P	<u> </u>		-	29		_	30	//////		1 .	20A/1P		SPARE
			Connected 1	Γotals:	ØA _. ØB).97 3.89	<u>K</u> VA KVA				AS - Po LO - Ha	r Options: werlink AS indle lock-o unt Trip Ty	ff device	

GFCI - Ground Fault Circuit Interrupter

HACR - Heating, A/C & Refrigeration

SF - Subfeed TC - Time Clock Control

Panelboard Manufacturer		SFP SIEMENS		Voltage Mains		120/2 0A MC		_	nase ains R		Wire	4	AIC Rat	ing	42,000
Panel Type		P2		Mounti	•	SURF			ptions	•		—— Note		-	
NEMA Type Enc	losure		1	Mount	9			_ `	ptions						
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CO Ø A	VOLT AMPERES Ø B	OAD Ø C	CIRC. NO.	A	В с	CIRC. NO.	CO Ø A	NNECTED L VOLT AMPERES Ø B		TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
UV-6, Z-CONTROL BOX		15A/1P	725			1	\rightarrow	++	2	725			15A/1P		UV-7, Z-CONTROL BOX
UV-2-15, Z-CONTROL BOX		15A/1P		725		3	-	+	4		725		15A/1P		UV-2-14, Z-CONTROL BOX
UV-2-13, Z-CONTROL BOX		15A/1P			725	5	-	++	6			725	15A/1P		UV-2-12, Z-CONTROL BOX
CU-2-3	HACR	45A/3P	4359	4359	4359	7 9 11			8 10 12	4359	4359	4359	45A/3P	HACR	CU-4-1 (MODULE 'A')
CONVENIENCE RECEPTACLES		20A/1P	540			13	\rightarrow	\vdash	14	3314		X/////			
SPARE		20A/1P		1		15		+	16	/////	3314		35A/3P	HACR	CU-4-1 (MODULE 'B')
SPARE		20A/1P			-	17		+	18			3314			
SPARE		20A/1P	-			19	+	++	20	-			20A/1P		SPARE
SPARE		20A/1P		1		21	-	++	22		1 .		20A/1P		SPARE
NEF-23		15A/2P			395	23	-	++	24	<u>/////</u>		1	20A/1P		SPARE
		107421	395			25	\rightarrow	++	26			<i>X/////</i>	20A/1P		SPARE
SPARE		20A/1P		1		27		+ +	28		1		20A/1P		SPARE
SPARE		20A/1P	<i>/////</i>	<u> </u>	1	29			30	<u>/////</u>	<u> </u>	<u> </u>	20A/1P		SPARE
(All Phases to be	e balanced to w		Connected of the connec		ØA ØB ØC Total	1	4.43 3.49 3.89 1.81	<u>K</u> VA <u>K</u> VA <u>K</u> VA		116	<u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI - I HACR - SF - Su	Ground Fau Heating, A	off device pe ontacts ck Attachment ult Circuit Interro /C & Refrigerati	

Panel Wiring Schedule (3-Phase)

Panelboard Manufacturer		TFP SIEMENS		Voltage Mains		120/2 0A MC			Phase Mains R	3 lating	Wire	4	AIC Rat	ing	42,000
Panel Type		P2		Mounti	ng	SURF	ACE	0	Options		-	Note	·	-	
NEMA Type Enc	losure		1												
LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	COI Ø A	VOLT AMPERES Ø B	OAD Ø C	CIRC. NO.	A	B Ç	CIRC. NO.	Ø A	ONNECTED L VOLT AMPERES Ø B	OAD Ø C	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
			4359			1	\vdash	++	2	725			15A/1P		UV-3-3, Z-CONTROL BOX
CU-2-2	HACR	45A/3P		4359		3	\vdash	++	4		725		15A/1P		UV-3-6, Z-CONTROL BOX
					4359	5	\vdash	+	6		//////	725	15A/1P		UV-3-7, Z-CONTROL BOX
			4359			7	\vdash	++	- 8	725			15A/1P		UV-3-8, Z-CONTROL BOX
CU-3-2 (MODULE 'A')	HACR	45A/3P		4359		9	+	++	10		725		15A/1P		UV-3-9, Z-CONTROL BOX
					4359	11	\vdash	+	12		//////	725	15A/1P		UV-3-1, Z-CONTROL BOX
			3314			13	\vdash	++	14	725			15A/1P		UV-3-2, Z-CONTROL BOX
CU-3-2 (MODULE 'B')	HACR	35A/3P		3314	3314	15 17			16 18		432	432	15A/3P		NEF-26
CU-3-1	HACR	45A/3P	4359	4359		19 21			20 22	432	342		15A/1P		NEF-28
					4359	23	+	+	24		//////	432			
ONVENIENCE RECEPTACLES		20A/1P	540			25	\vdash	++	26	432			15A/3P		NEF-29
UV-3-5, Z-CONTROL BOX		15A/1P		725		27	+	++	28		432				
UV-3-4, Z-CONTROL BOX		15A/1P			725	29	\vdash	+	30		X/////	540	20A/1P		CONVENIENCE RECEPTACLE
			1165			31	\vdash	++	32	-			-		SPACE
NEF-13		15A/3P		1165		33	\vdash	++	34				-		SPACE
					1165	35	\vdash	+	36		//////		-		SPACE
			1165			37	\vdash	++	38			<i>X/////</i>	-		SPACE
NEF-25		15A/3P		1165		39	+	++	40		<u>/</u>		-		SPACE
					1165	41		++	42		/X/////	7 - 1	-		SPACE
(All Phases to be	e balanced to w		Connected T		ØA ØB ØC Total	2	2.89 2.11 1.26 6.71	<u>K</u> V. <u>K</u> V. <u>K</u> V.	A A	185	<u>A</u> mperes	AS - Po LO - Ha ST - Sh AUX - A PA - Ha GFCI - (Ground Fau	ff device be	

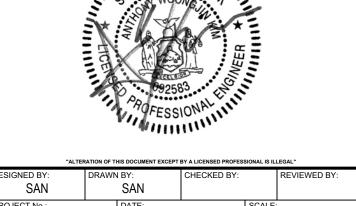


+ engineers

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JANUARY 2023

White Plains City School District

WPSD2113

UV Replacements at the George Washington Elementary School



100 Orchard Street White Plains NY, 10604

66-22-00-01-0-009-017

CONTRACT E
ELECTRICAL CONSTRUCTION

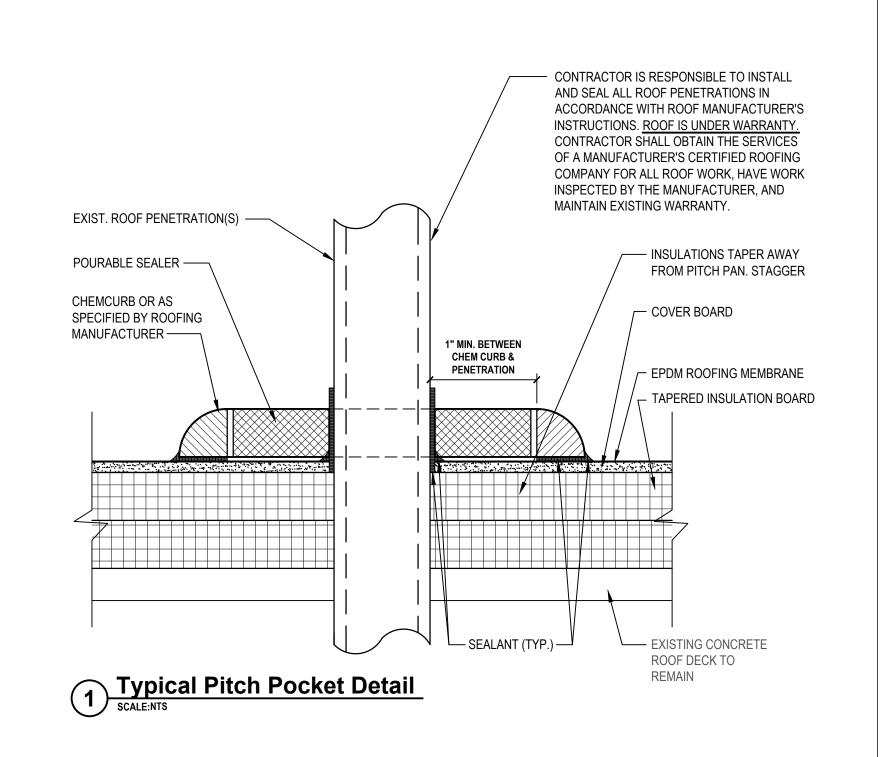
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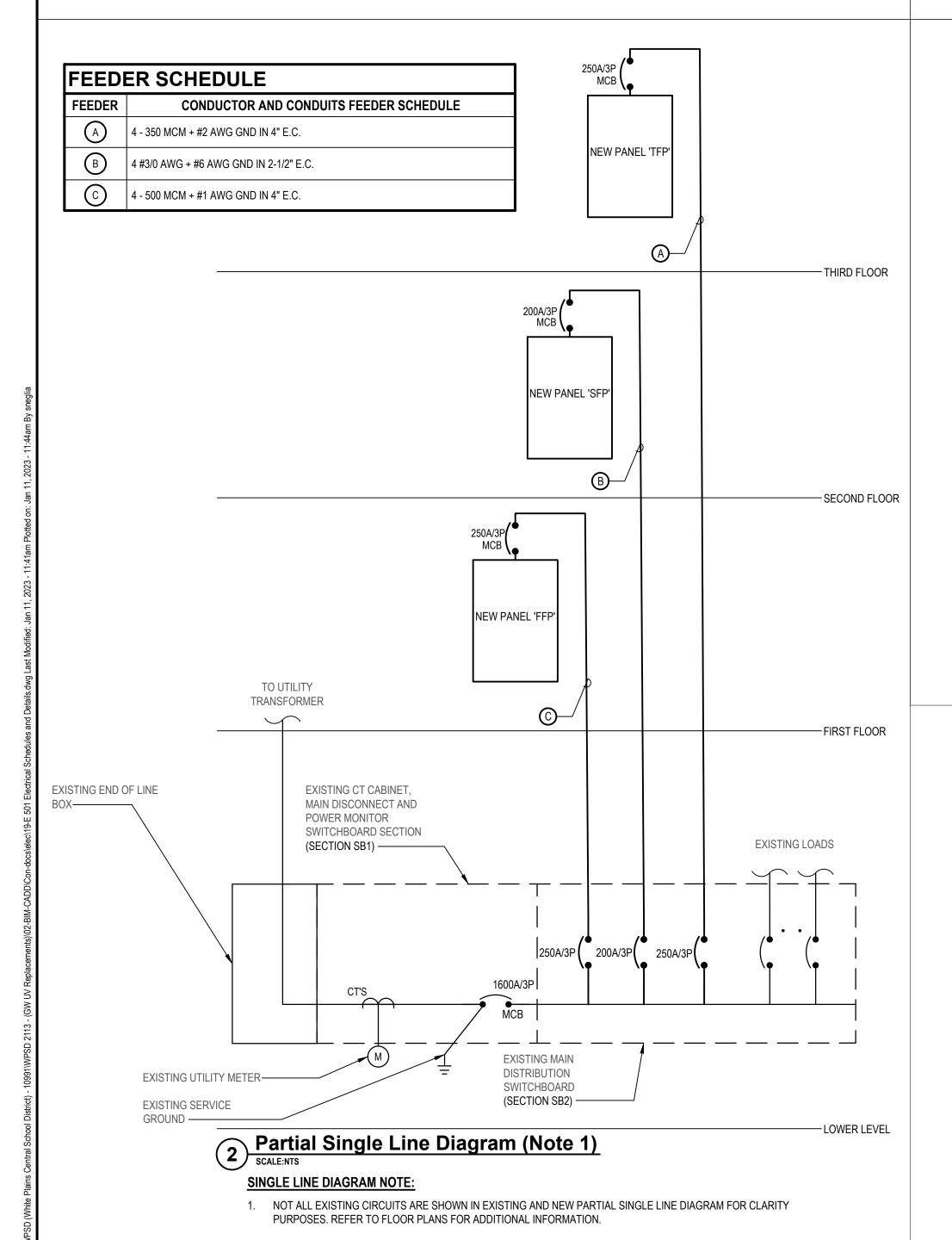
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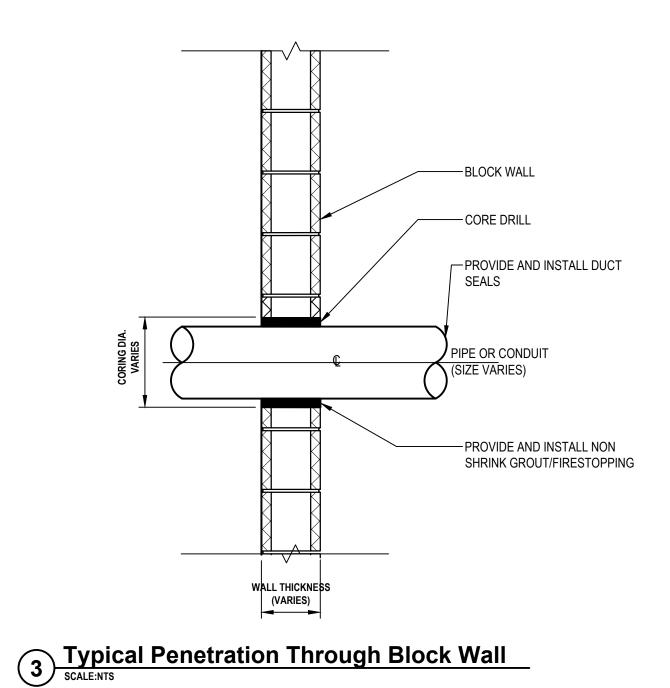
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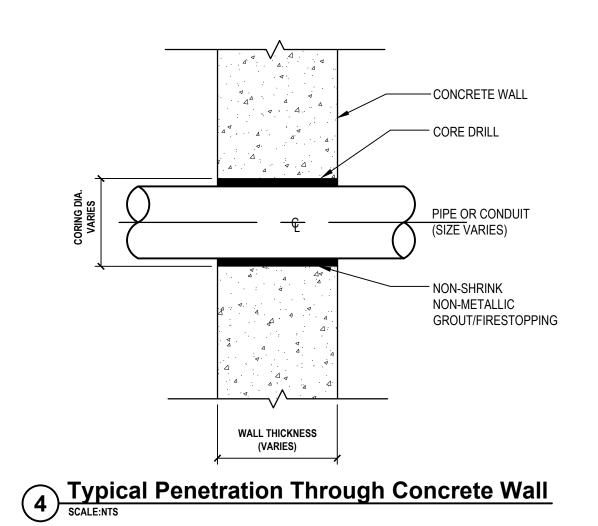
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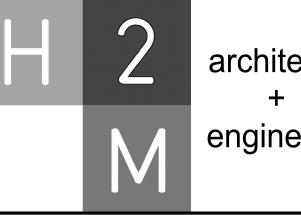






DISCONNE	CT SWI	TCH SCHED	ULE			
DISCONNECT SWITCH IDENTIFICATION	TYPE	ENCLOSURE	VOLTS	POLES	FRAME SIZE AMPS	FUSE RATING
DS1	UNFUSED	NEMA 3R	240	3	60	-

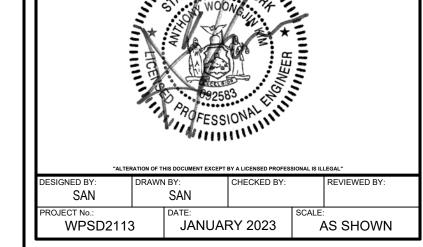
MOTOR STAI	RTER SCHE	DULE			
IDENTIFICATION	NEMA SIZE	VOLTS / PHASE	ENCLOSURE TYPE	DISCONNECT AMPS / POLE	ACCESSORIES
S1	0	208 / 3Ø	NEMA 1	15 / 3	H-O-A SWITCH, RUN AND OVERLOAD LIGHT
S2	0	208 / 3Ø	NEMA 1	15 / 2	H-O-A SWITCH, RUN AND OVERLOAD LIGHT
S3	0	120 / 1Ø	NEMA 1	15 / 1	H-O-A SWITCH, RUN AND OVERLOAD LIGHT



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White Plains City School District

UV Replacements at the George Washington Elementary School



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FINAL BID DOCUMENT

HEET TITLE

ELECTRICAL SCHEDULE, DETAILS
AND SINGLE LINE DIAGRAM

RAWING No.

E 501.00