

NYACK UNION FREE SCHOOL DISTRICT OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

131 N Midland Ave
Nyack, NY, 10960

APRIL 18, 2025

**OLD NYACK HIGH SCHOOL
BOILER REPLACEMENT**

NY SED Project Control No.

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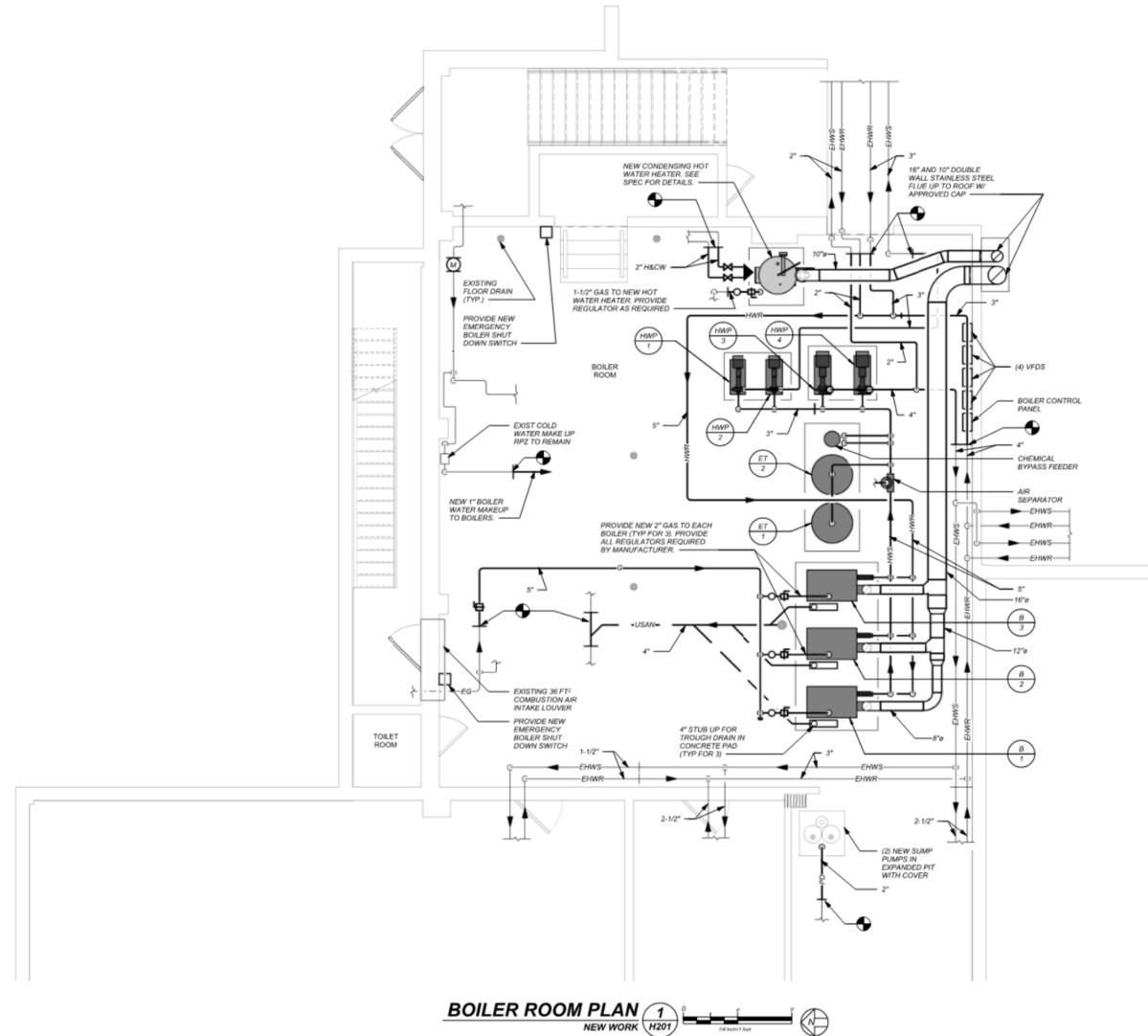
DESIGN TEAM

ISSUED FOR BID

SED # 50-03-04-03-0-003-019

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BOILER ROOM PLAN
NEW WORK H201

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COVER SHEET

G000

ABBREVIATIONS

& @ x #	AND AT BY CENTER LINE DIAMETER DIMENSION POUND / NUMBER	DA DEM DET DF DIA DIM DN DR DWG DWR	DEVICE ARRANGEMENT DEMOLISH / DEMOLITION DETAIL DRINKING FOUNTAIN DIMENSION DOWN DRAWING DRAWER	GA GALV GEN GFB GFRG GL GOG GWB GYP	GALVE GALVANIZED GENERAL CONTRACTOR GENERAL GROUND FACE BLOCK GLASS FIBER REINFORCED GYPSUM GLASS GOSGLE GYPSUM WALLBOARD GYPSUM	MAINT MATL MAX MBR MCP MCB MECH MEMB MFR MH MIN MISC MLWK MLDG	MAINTAIN/MAINTENANCE MATERIAL MAXIMUM MEMBRANE METAL COMPOSITE PANEL METAL CORNER BEAD MECHANICAL MEMBRANE MANUFACTURER MATCH HEIGHT / MAGNETIC HOLD MINIMUM MISCELLANEOUS MILL WORK MOLDING	R RA RB RCP RD REF REFL REFR REG REIN REQ REQ, REQD REV RFI RH RM RO RSF RTB RTN RTT RW	RISER RETURN AIR RUBBER BASE REFLECTED CEILING PLAN ROOF DRAIN REFERENCE MECH REFRIGERATOR REGISTER REINFORCED / REINFORCING REQUIRED REVISED / REVISION REQUEST FOR INFORMATION RIGHT HAND ROOM ROUGH OPENING RUBBER SPORTS FLOOR RUBBER TREAD / TILE RUBBER TREAD BASE RETURN RESILIENT TERRAZZO TILE RESCUE WINDOW	TURF UNFIN UNO, UNON UR URIL UTILITY VAT VCT VEN VERT VET VFY VIF VRS VSF VT VWC W W/ W/O WB WBP WC WD WDP WD BULK WD DR WF WGL WOM WR WT WW YCD YD ZCC ZCP	ARTIFICIAL TURF UNFINISHED UNLESS NOTED OTHERWISE URINAL UTILITY VINYL ASBESTOS TILE VINYL COMPOSITE TILE VENEER VERTICAL VENT VINYL ENHANCED TILE VERIFY VERIFY IN FIELD VENTED RUBBER BASE VINYL REDUCER STRIP VINYL SHEET FLOORING VINYL TILE VINYL WALL COVERING WEST WITH WHEEL CHAIR WITHOUT WHITEBOARD WATER CLOSET WOOD WOOD PANEL WOOD BLOCKING WOOD DOOR WATER FOUNTAIN WIRE GLASS WALK-OFF MAT WATERPROOFING / WORK POINT WARDROBE WEIGHT WINDOW WALL YARD CLEANOUT YARD ZINC COATED COPPER ZINC COMPOSITE PANEL
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GENERAL NOTES

- THESE NOTES ARE INTENDED TO SUPPLEMENT & BRING ATTENTION TO SPECIFIC REQUIREMENTS WITHIN THE GENERAL CONDITIONS OF THE CONTRACT AS INCLUDED IN THE PROJECT MANUAL / SPECIFICATIONS.
- THE WORK SHALL CONFORM TO ALL APPLICABLE & CURRENTLY ADOPTED BUILDING CODES & OTHER GOVERNING CODES, ORDINANCES & REGULATIONS. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SHALL APPLY.
 - THE CONTRACTOR SHALL MAINTAIN A CURRENT & COMPLETE SET OF CONSTRUCTION DOCUMENTS ON THE JOB SITE TO BE MADE AVAILABLE FOR REFERENCE BY THE OWNER, ARCHITECT & OTHER OWNER CONSULTANTS.
 - THE WORK SHALL CONSIST OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS & EQUIPMENT NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF THE WORK, LEAVING ALL WORK READY FOR USE BY THE OWNER. EVEN IF ITEMS ARE MISSING FROM THE DRAWINGS OR SPECIFICATIONS, BUT ARE NORMALLY REQUIRED FOR PROPER OPERATION OR TO COMPLETE OTHERWISE INCOMPLETE CONSTRUCTION, THEY SHALL BE INCLUDED BY THE CONTRACTOR.
 - QUESTIONS REGARDING THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN ACCORDANCE WITH THE REQUEST FOR INFORMATION PROCEDURE. IN THE EVENT OF INCONSISTENCIES BETWEEN PARTS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL (1) PROVIDE THE BETTER QUALITY OR GREATER QUANTITY OF WORK OR (2) COMPLY WITH THE MORE STRINGENT REQUIREMENTS, EITHER OR BOTH IN ACCORDANCE WITH THE ARCHITECT'S INTERPRETATION.
 - PRIOR TO THE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL EXAMINE EXISTING PROJECT CONDITIONS & SUBMIT PHOTO OR VIDEO DOCUMENTATION TO THE ARCHITECT & OWNER FOR RECORD. EXISTING CONDITIONS CRITICAL FOR THE EXECUTION OF THE WORK, SUCH AS FLOOR ELEVATIONS, PLAN DIMENSIONS, OVERALL BUILDING DIMENSIONS, TIE-IN POINTS, ETC SHALL BE CONFIRMED, WHERE FEASIBLE, BY THE CONTRACTOR IN ADVANCE OF STARTING THE WORK.
 - MEANS, METHODS & JOB-SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - THE CONTRACTOR SHALL BE PRESUMED TO HAVE EXAMINED THE PROJECT SITE TO CONSIDER FULLY ALL CONDITIONS THAT MAY BE BEARING ON THE WORK & TO HAVE ACCOUNTED FOR THESE CONDITIONS. THE CONTRACTOR IS DEEMED TO BE A QUALIFIED EXPERT IN THE REQUIREMENTS OF THE WORK. THE CONTRACTOR'S FAILURE TO FAMILIARIZE ITSELF WITH EXISTING CONDITIONS OR FAILURE TO SUBMIT REQUIRED DOCUMENTS IN A TIMELY MANNER SHALL NOT BE GROUNDS FOR EXTENSION OF TIME OR ADDITIONAL COMPENSATION.
 - THE CONTRACTOR SHALL EXERCISE EXTREME CARE & PRECAUTION DURING CONSTRUCTION TO MINIMIZE DISTURBANCE TO ADJACENT STRUCTURES, PROPERTY, OCCUPANTS, PUBLIC THOROUGHFARES, ETC. THE CONTRACTOR SHALL TAKE ALL REASONABLE CONTROL MEASURES & PRECAUTION TO MINIMIZE DUST, NOISE, ODOR, NUISANCE & THE LIKE TO THE PREMISES & OCCUPANTS. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE CONDITIONS TO REMAIN INCLUDING INTERIOR, EXTERIOR, TREES, SHRUBS, PAVING, FENCES, ETC.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING, FITTING, OR PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY. ALL AREAS REQUIRING CUTTING, FITTING, OR PATCHING SHALL BE RESTORED TO THE CONDITION EXISTING PRIOR UNLESS NOTED OTHERWISE. THE PROJECT SPECIFICATION MAY CONTAIN MORE DETAIL REGARDING CUTTING & PATCHING RESPONSIBILITIES.
 - MANY PORTIONS OF THE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC & INSTALLATION OF SUCH SYSTEMS OR COMPONENTS MAY REQUIRE DETAILED ATTENTION TO ROUTING & COORDINATION WITH OTHER SUCH SYSTEMS OR EXISTING COMPONENTS. MINOR ADJUSTMENT TO ROUTING TO ACCOMMODATE EXISTING CONDITIONS & OTHER SYSTEMS SHALL BE THE PRIMARY RESPONSIBILITY OF THE CONTRACTOR. MAJOR ADJUSTMENTS TO ROUTING OR RECONFIGURATION MUST BE REVIEWED WITH THE ARCHITECT.
 - THE CONTRACTOR SHALL PAY ATTENTION TO IMPLIED PLAN & SECTION SPATIAL RELATIONSHIPS & VERIFY ALL DATUMS, AXES & IMPLIED SYMMETRIES. ALL DIMENSIONS SHALL BE CHECKED FOR ACCURACY AS THE WORK PROGRESSES.
 - THE CONTRACT DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, & EXTENTS OF THE WORK & ARE PARTLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO SERVE AS 'SHOP' OR 'ERECTION' DRAWINGS.
 - DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. DIMENSIONS ON LARGER SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
 - WHERE DIMENSIONS ARE NOTED AS "CLEAR" THEY ARE CODE OR FUNCTIONAL REQUIREMENTS & MUST BE MAINTAINED FROM FINISHED FACES. SEEK CLARIFICATION OF THE INTENT FROM THE ARCHITECT WHEN IN DOUBT.
 - DETAILS SHOWN ARE TYPICAL, UNLESS NOTED OTHERWISE. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS.
 - VERIFY ALL ARCHITECTURAL DETAILS WITH STRUCTURAL, PLUMBING, MECHANICAL & ELECTRICAL CONDITIONS BEFORE ORDERING OR INSTALLING ANY ITEM OF WORK.
 - WHERE LOCATIONS OF NEW DOORS OR WINDOWS ARE NOT DIMENSIONED, THEY SHALL BE CENTERED IN THE WALL OR PLACED AS INDICATED IN TYPICAL DETAILS FROM ADJACENT WALLS.
 - ALL CHANGES OF FLOOR MATERIAL SHALL OCCUR AT CENTERLINE OF DOOR OR FRAMED OPENING UNLESS NOTED OTHERWISE.
 - SUPPLEMENTAL BLOCKING & REINFORCING FOR WALL-MOUNTED OR WALL-SUPPORTED ITEMS, SUCH AS TOILET ACCESSORIES, SHELVING, CABINETRY, AV EQUIPMENT, ETC IS TYPICALLY NOT SPECIFICALLY DESIGNED ON THE DRAWINGS BUT IS REQUIRED IN THE SPEC. FURTHERMORE, THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
 - ALL WORK SHALL BE FIRM, WELL & SECURELY ANCHORED, ERECTED & INSTALLED PLUMB, LEVEL, SQUARE, IN TRUE & PROPER ALIGNMENT & ADJUSTMENT WITHOUT WAIVES, DISTORTIONS, HOLES, MARKS, CRACKS, STAINS, OR DISCOLORATION. JOINTING SHALL BE CLOSE FITTING, NEAT & WELL SCRIBED. FINISHED WORK SHALL NOT HAVE EXPOSED, UNSIGHTLY ANCHORS OR FASTENERS & SHALL NOT PRESENT HAZARDOUS, UNSAFE CORNERS. ALL WORK SHALL HAVE THE PROVISION FOR EXPANSION, CONTRACTION & SHRINKAGE AS NECESSARY TO PREVENT CRACKS, BUCKLING, & WARPING DUE TO TEMPERATURE & HUMIDITY CONDITIONS. INSTALL ALL MATERIALS & EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

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SYMBOLS LEGEND

	EXISTING AREA OF NO MAJOR ARCHITECTURAL WORK TO REMAIN		ROOM NAME 101 150 SF		CENTERLINE		OCCUPANT LOAD MAX CAPACITY
	EXISTING WALL / ELEMENT TO BE DEMOLISHED		WALL TAG		COLUMN GRID		FEC - FIRE EXTINGUISHER CABINET
	EXISTING WALL / ELEMENT TO BE DEMOLISHED		OPENING TYPE (I.E. WINDOW, HM / ALUM ASSEMBLY, LOUVER, ETC), SEE WINDOW TYPES		EXTERIOR ELEVATION REFERENCE		EXIT SIGN
	1hr OR NON-RATED WALL		KEYNOTE		INTERIOR ELEVATION REFERENCE		MAX TRAVEL DISTANCE / COMMON PATH OF TRAVEL
	2hr RATED WALL		SPECIALTY EQUIPMENT, CASEWORK, SIGNAGE OR MATERIAL TYPE		WALL OR BUILDING SECTION REFERENCE		OCCUPANT LOAD ON PATH
	EXISTING DOOR TO REMAIN (U.N.D.)		DATUM / SPOT ELEVATION MARKER		DETAIL REFERENCE		ADA ACCESSIBLE ENTRY / EXIT
	EXISTING DOOR & OR FRAME TO BE DEMOLISHED		CONTROL JOINT		NORTH ARROW		2hr FIRE RATING
	NEW DOOR & OR FRAME, SEE DOOR SCHEDULE				REVISION MARKER		1hr FIRE RATING
	BREAK IN A STRAIGHT ELEMENT				DIRECTION OF TRAVEL		RESCUE WINDOW, PROVIDE 24" MIN CLEAR WIDTH, 6 SF MIN CLEAR AREA
	BREAK IN A ROUND ELEMENT						

MATERIALS LEGEND

	CMU WALL		WATERPROOFING / ROOFING MEMBRANE OR FLASHING (THICK SOLID LINE)
	CMU WALL		AIR / VAPOR CONTROL LAYER (THICK DASHED LINE)
	GIB WALL		RIGID INSULATION
	MASONRY		BATT INSULATION
	GYPSUM WALLBOARD (GWB) TYPE 'X' (SEE SPEC)		POROUS FILL
	PLYWOOD (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)		SUITABLE COMPACTED BACKFILL
	WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)		UNDISTURBED SOIL
	SEALANT w/ BACKER ROD		CONCRETE OR CAST STONE
	GLASS SURFACE		

SHEET IDENTIFICATION LEGEND

A101-A

DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SEQUENCE NUMBER
BUILDING / BUILDING AREA DESIGNATOR (IF USED)

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

Professional Seal

NYSED Project Control No.
50-03-04-03-0-003-019

Design Phase
ISSUED FOR BID

No.	Date	Issue
3	2025-04-18	ISSUED FOR BID
1	2024-09-12	CONSTRUCTION DOCUMENTS

Sheet Title
GENERAL LEGENDS, ABBREVIATIONS & NOTES

Job No. 2024-1037 Date xx/xx/xxxx
Scale AS NOTED Drawn / Checked - -
Sheet Number
G001

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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THE OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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**BCNYS CHAPTERS 3 - 6:
OCCUPANCY CLASSIFICATION & USE; BUILDING
HEIGHTS & AREAS; TYPES OF CONSTRUCTION**

EXISTING BUILDING

USE & OCCUPANCY CLASSIFICATION(S): EDUCATIONAL GROUP E
 TYPE OF CONSTRUCTION: IIB

FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS	TYPE IIB
PRIMARY STRUCTURAL FRAME:	0 HRS
FLOORS:	0 HRS
ROOFS:	0 HRS
BEARING WALLS (EXT. INT):	0, 0 HRS
NON-BEARING WALLS (EXT. INT):	0, 0 HRS

PROJECT INFORMATION

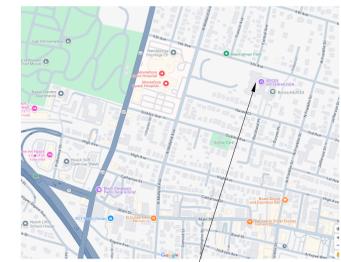
NYSED CONTROL NUMBER: 50-03-04-03-0-003-019
 DISTRICT NAME / OWNER: NYACK UNION FREE SCHOOL DISTRICT
 13A DICKINSON AVENUE
 NYACK, NY 10960
 PHONE: 845-353-7000
 BUILDING NAME / LOCATION: OLD NYACK HIGH SCHOOL
 131 N MIDLAND AVENUE
 NYACK, NY 10960
 TYPE OF PROJECT: LEVEL 1 ALTERATIONS
 PROJECT DESCRIPTION: BOILER REPLACEMENT
 PROJECT COMMENCEMENT: SUMMER 2025
 PROJECTED COMPLETION: FALL 2025
 APPLICABLE CODES: 2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE (BCNYS)
 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE (ECCCNYS)
 2022 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT (NYS&D)

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

NYACK UNION FREE SCHOOL DISTRICT
 131 N Midland Ave
 Nyack, NY, 10960



LOCATION MAP



UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION & MAINTENANCE PROJECTS

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

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

GENERAL SAFETY & SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

- ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE & SECURE MANNER.
- FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- 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 & PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
- WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION & SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES:

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR & THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST & CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION & 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 VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, & SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

- A SPECIFIC STAIRWELL &/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
- 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.
- 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.

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

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

CONSTRUCTION & 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, & OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

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

LARGE & SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED. NOTE: IT IS OUR INTERPRETATION THAT THE TERM "BUILDING," AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON-COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION & VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED & SEALED AT THE ISOLATION BARRIER.

EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED. A COMPLETE ISOLATION OF VENTILATION SYSTEMS & AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT INTERRUPTED BY NOISE OR VISUAL DISTRACTION.

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

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Professional Seal

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Design Phase		
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		ISSUED FOR BID
3	2025-04-18	ISSUED FOR BID
2	2025-04-16	SED ADDENDUM
1	2024-09-12	CONSTRUCTION DOCUMENTS

CODE COMPLIANCE INFORMATION

Job No. 2024-1037 Date xx/xx/xxxx
 Scale AS NOTED Drawn / Checked - - -
 Sheet Number

CC001

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

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ABBREVIATIONS	
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL TRADE CONTRACTOR
ATC	AUTOMATIC TEMPERATURE CONTROL SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM (ATC)
BR	BOTTOM WALL REGISTER
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CR	CEILING REGISTER
CO	CLEAN OUT (DOOR)
CV	MOTORIZED CONTROL VALVE
EC	ELECTRICAL CONTRACTOR
EMS	ENERGY MANAGEMENT SYSTEM (ATC)
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FSC	FULL SIZE CONNECTION
FSD	FIRE/SMOKE DAMPER
GC	GENERAL TRADES CONTRACTOR
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
MFR	MANUFACTURER
MD	MOTORIZED DAMPER
OA/FAI	OUTSIDE (FRESH) AIR INTAKE
PFRE	PRE-FINISHED SHEET METAL ENCLOSURE
PL	PLUMBING CONTRACTOR
SMRE	SHEET METAL RISER ENCLOSURE (PRE-FINISHED)
TD	TRANSFER DUCT
TR	TOP WALL REGISTER
WMG	1/2" SQ. WIRE MESH GRILLE
VIF	VERIFY IN FIELD
VFD	VARIABLE FREQUENCY DRIVE

- ### GENERAL NOTES
- BEFORE SUBMITTING A PROPOSAL, BIDDERS SHALL EXAMINE ALL CONDITIONS RELATED TO THIS WORK AND SHALL BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE OTHER WORK IN THE BUILDING.
 - BEFORE COMMENCING WORK, THE CONTRACTOR WILL EXAMINE ALL CONDITIONS OF THE PROJECT UPON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR PERFECT WORKMANSHIP ACCORDING TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. NO WAIVER OF RESPONSIBILITY FOR INCOMPLETE, INADEQUATE OR DEFECTIVE ADJOINING WORK WILL BE CONSIDERED UNLESS NOTICE HAS BEEN FILED BY THIS CONTRACTOR AND ACCEDDED TO BY THE OWNER'S REPRESENTATIVE IN WRITING BEFORE THE CONTRACTOR BEGINS ANY PART OF THE WORK.
 - THE CONTRACTOR WILL PAY FOR ALL LICENSES, PERMITS AND INSPECTION FEES REQUIRED BY CIVIL AUTHORITIES HAVING JURISDICTION. COMPLY WITH ALL LAWS, ORDINANCES, REGULATIONS, AND FIRE UNDERWRITER'S REQUIREMENTS APPLICABLE TO WORK HEREIN SPECIFIED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
 - SMALL SCALE DRILLING THROUGH WALLS AND FLOORS OR CUTTING OF PIPING INSULATION WHICH MAY CONTAIN ASBESTOS SHALL BE PERFORMED BY A PERSON WITH A "RESTRICTED ASBESTOS HANDLER ALLIED TRADES CERTIFICATE" AND SHALL HAVE A COPY OF IT IN HIS POSSESSION AT ALL TIMES WHILE WORKING OF THE PROJECT. THIS SHALL ALSO APPLY TO REMOVAL OF PIPING, DUCTWORK OR EQUIPMENT INSULATION.
 - IT IS SPECIFICALLY INTENDED THAT ANYTHING (WHETHER MATERIAL OR LABOR), WHICH IS USUALLY FURNISHED AS A PART OF SUCH EQUIPMENT, AS IS HERINAFTER CALLED FOR (AND WHICH IS NECESSARY FOR THE COMPLETION AND PROPER OPERATION) SHALL BE FURNISHED AS PART OF THIS CONTRACT WITHOUT ADDITIONAL COST TO THE OWNER, WHETHER OR NOT SHOWN IN DETAIL OR DESCRIBED IN THE SPECIFICATIONS.
 - WHEN DRAWINGS AND SPECIFICATIONS CONFLICT OR THERE IS A QUESTION AS TO THE PROPER INTENT OF THIS CONTRACT, THE CONTRACTOR SHALL ASSUME THE GREATER QUANTITY, THE HIGHER QUALITY AND/OR THE MORE EXPENSIVE METHOD IN HIS PRICING. ALL QUESTIONS SHALL BE DIRECTED TO THE ARCHITECT/ENGINEER IN WRITING ONLY AND ONLY UP TO TEN (10) DAYS PRIOR TO BIDDING.
 - THE DRAWINGS INDICATE THE GENERAL RUNS OF THE PIPING, DUCTWORK, ETC. SYSTEMS AND THE LOCATION OF EQUIPMENT AND APPARATUS, HOWEVER IT SHALL BE UNDERSTOOD THAT THE RIGHT IS RESERVED BY THE ARCHITECT/ENGINEER TO CHANGE THE LOCATION OF PIPING, DUCTWORK, EQUIPMENT AND APPARATUS TO A REASONABLE EXTENT AS BUILDING CONDITIONS MAY DICTATE, PRIOR TO THEIR INSTALLATION WITHOUT EXTRA COST TO THE OWNER.
 - ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS. THE CONTRACTOR SHALL ACCOUNT FOR ANY LINING IN SIZING OF SHEET METAL.
 - ALL COMPONENTS SUPPLIED BY THIS CONTRACTOR SHALL BE UL LISTED AND/OR ETL LABELED AND SHALL CONFORM TO ASHRAE STANDARD 15.
 - ANY CHANGES FROM THE DRAWINGS AND SPECIFICATIONS AND ANY INTERPRETATION THEREOF SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SUBMIT IN WRITING, AT THE TIME OF SIGNING THE CONTRACT, ANY ITEMS OF NECESSARY LABOR AND MATERIALS, WHICH, IN HIS OPINION, ARE LACKING IN REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS TO INSURE A COMPLETE JOB IN ALL RESPECTS. NO CONSIDERATION WILL BE GRANTED TO ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, WORK TO BE DONE, OR CONDITIONS TO BE COMPLIED WITH, IT BEING UNDERSTOOD THAT THE TENDER OF A PROPOSAL CARRIES WITH IT THE AGREEMENT TO ALL TERMS AND CONDITIONS REFERRED TO HEREIN, OR INDICATED ON THE ACCOMPANYING DRAWINGS.
 - FURNISH ALL COMBINATION MOTOR STARTER/DISCONNECTS FOR EQUIPMENT (WITH THE EXCEPTION OF STARTERS AND ELECTRIC ITEMS ALREADY MOUNTED ON EQUIPMENT OR EQUIPMENT NOT REQUIRING SAME). FAN MOTOR STARTER/DISCONNECTS SHALL HAVE CONTACTS FOR ATC CONNECTION AND A TERMINAL BLOCK CONNECTION FOR FIRE ALARM FAN SHUTDOWN, STARTERS PER MANUFACTURERS RECOMMENDATIONS, UNDERWRITERS INSPECTION AND CERTIFICATE REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - THIS CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PROVIDING ELECTRIC, GAS, WATER, ETC. CONNECTIONS TO SYSTEMS OR EQUIPMENT THAT ARE PART OF THIS CONTRACT. PROVIDE EQUIPMENT CUTS AND EXACT LOCATIONS, INCLUDING ORIENTATION, OF ALL SYSTEMS AND EQUIPMENT REQUIRING SUCH CONNECTIONS. THIS SHALL BE DONE WELL IN ADVANCE OF THOSE TRADES INSTALLING THEIR CONNECTION WORK.
 - COORDINATION DRAWINGS (IF APPLICABLE): ATTENTION IS DIRECTED TO DIVISION 1 FOR COORDINATION DRAWING REQUIREMENTS FOR THIS PROJECT. THESE DRAWINGS ARE CRITICAL TO THE PROPER EXECUTION OF THE WORK AND FAILURE TO HONOR THESE REQUIREMENTS MAY BECOME THE BASIS FOR DENIAL OF ANY AND ALL CLAIMS FOR EITHER OR BOTH "TIME" AND "MONEY".
 - LOCATION AND SIZES OF EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING WORK SHALL BE VERIFIED ON THE JOB.
 - BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.
 - THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS, UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
 - REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED ITEMS.
 - OPENINGS AROUND PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER MCP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
 - PREPARE "AS-BUILT" DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

LEGEND

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OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

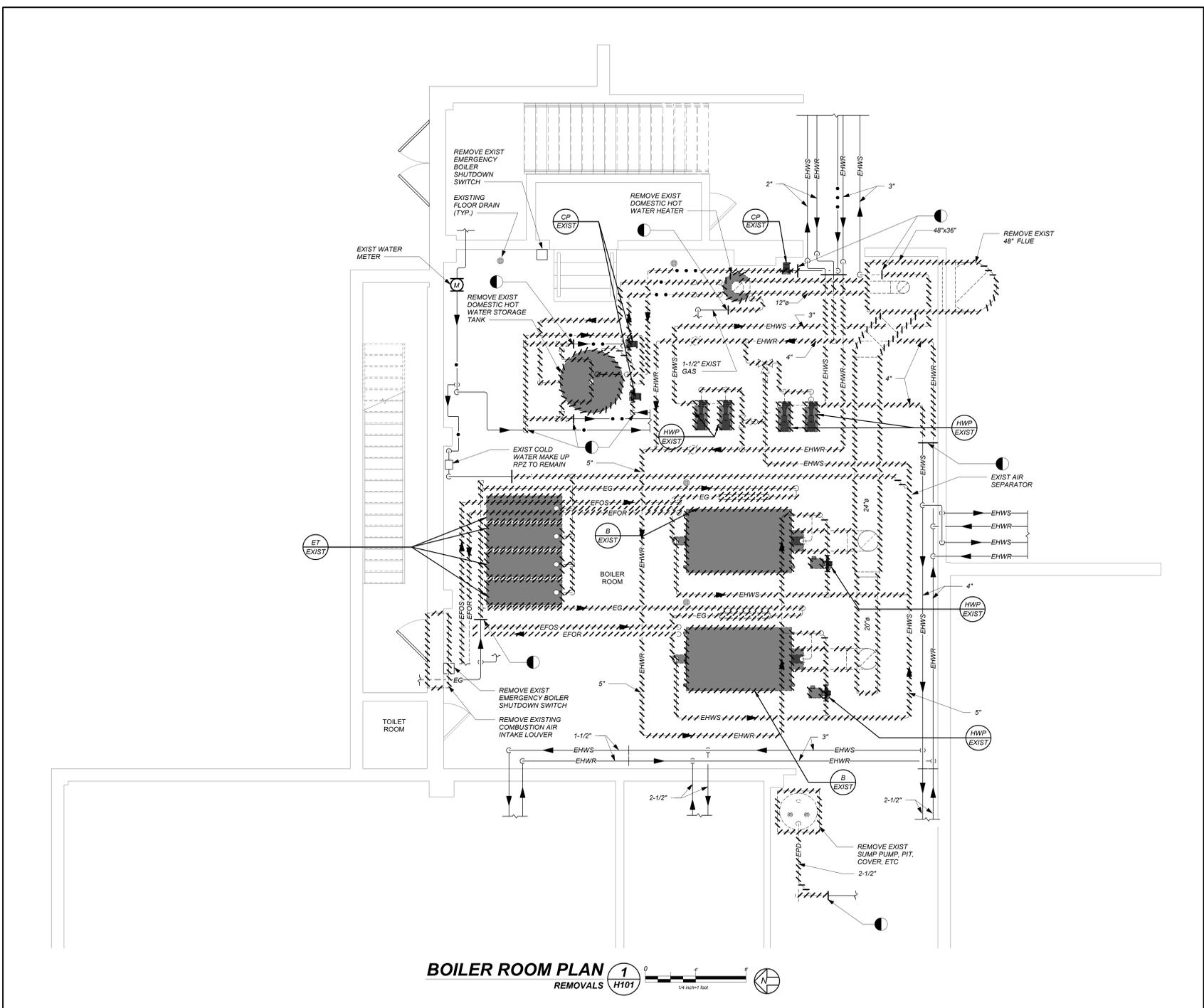
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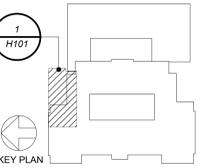


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BOILER ROOM PLAN
 REMOVALS 1 H101



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NOTE:
 BEFORE COMMENCEMENT OF ANY REMOVAL WORK, THIS CONTRACTOR SHALL TEST HOT WATER FLOW AT EXISTING PUMPS AND ALL HOT WATER MAINS AND PRIMARY BRANCHES THAT ARE TO REMAIN. UPON THE CONCLUSION OF THE NEW WORK, ALL WATER FLOWS SHALL BE RETURNED TO THESE CONDITIONS.

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

Professional Seal

NYSED Project Control No.
 50-03-04-03-0-003-019

Design Phase
 ISSUE FOR BID

2	04/18/2025	ISSUE FOR BID
1	09/12/2024	CONSTRUCTION DOCUMENTS
No.	Date	Issue

BOILER ROOM PLAN (REMOVALS)

Job No. 2024-1035 Date 04/18/2025
 Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number
H101

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

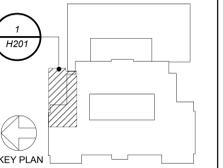
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Professional Seal

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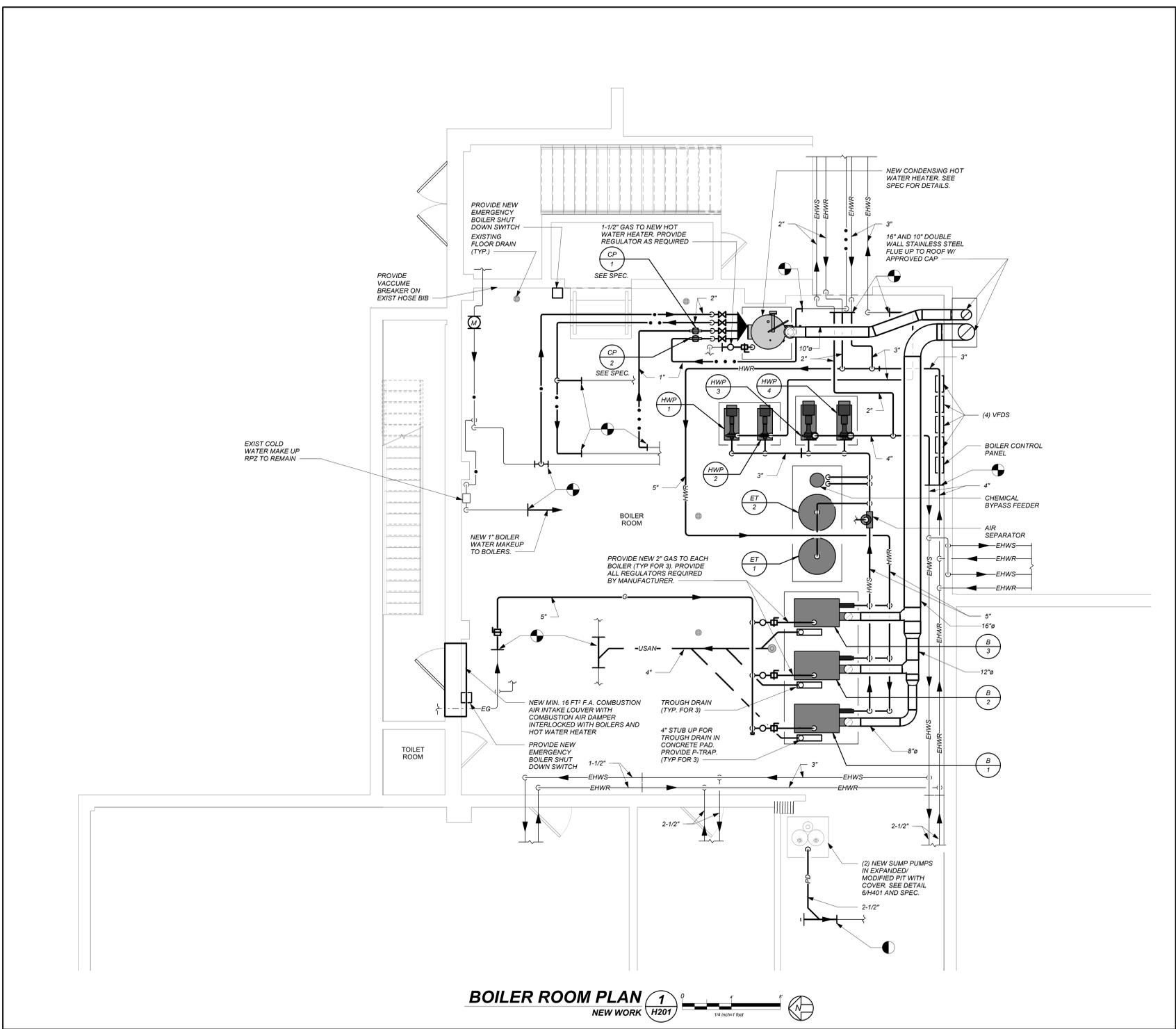
Design Phase
ISSUE FOR BID

No.	Date	Issue
2	04/18/2025	ISSUE FOR BID
1	09/12/2024	CONSTRUCTION DOCUMENTS

BOILER ROOM PLAN (NEW WORK)

Job No. 2024-1035 Date 04/18/2025
 Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number
H201



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

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

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SCHEDULE OF BOILERS

BOILER DATA			BURNER DATA				WATER DATA				ELECTRICAL			PHYSICAL DATA		REMARKS		
MARK	LOCATION	MODEL No. ①	INPUT (CFH)	OUTPUT (MBH)	FUEL	AHR/ EFFICIENCY	MIN-MAX GAS PRESSURE	OPERATING PRESSURE	RELIEF VALVE PRESSURE	RATED PRESSURE	WATER TEMP. LWT EWT	MIN / MAX FLOW	SERVICE	FLA	BURNER MOTOR HP		LxWx(H) IN	WEIGHT (LBS)
(B) (S) (R) (C)	BOILER ROOM	BMK-2000	2000	1900	NATURAL GAS	94.6%	4 - 14 IN W.C.	25 PSIG	50 PSIG	160 PSIG	180 F 160 F	25350 GPM	120/160	16	1.6 HP	58 x 28 x 78	1760	REFER TO ② ③ ④

NOTES

- AS MANUFACTURED BY "AERCO".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE BOILER SEQUENCER W/ HW RESET, BOILER SEQUENCING VALVE AND CONTROLLER, SINGLE RETURN INLET CONNECTION, CHECK VALVE ON EACH INLET CONNECTION, AND CONDENSATE NEUTRALIZER FOR EACH BOILER AND COMMON FLUE DRAINS.
- VENTLESS GAS TRAIN, MIN TURNDOWN: 15:1, MAX NOX: 9 PPM, 3% O2 CORRECTION, NATIVE BACNET BMS COMMUNICATION, BOILER STAGING POINT TO NOT EXCEED 40%.

SCHEDULE OF HOT WATER PUMPS

MARK	LOCATION	SERVICE	MODEL No. ①	GPM	HEAD FT H2O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
(H) (C) (S)	BOILER ROOM	1949 ADDITION	E-1510 1.5BC	125	78	1800	5	208/3/60	REFER TO ② ③
(H) (C) (S)	BOILER ROOM	1949 ADDITION	E-1510 1.5BC	125	78	1800	5	208/3/60	REFER TO ② ③ ④
(H) (C) (S)	BOILER ROOM	ORIGINAL BUILDING	E-1510 2.5BB	215	83	1800	10	208/3/60	REFER TO ② ③
(H) (C) (S)	BOILER ROOM	ORIGINAL BUILDING	E-1510 2.5BB	215	83	1800	10	208/3/60	REFER TO ② ③ ④

NOTES

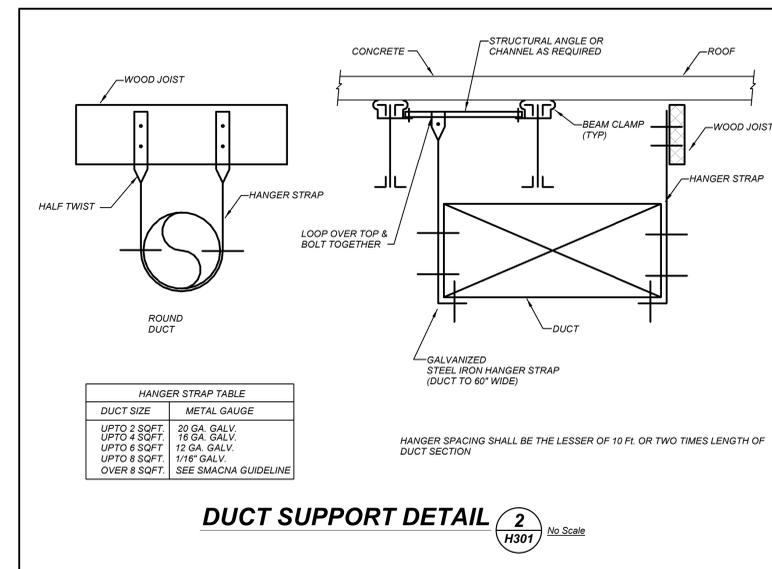
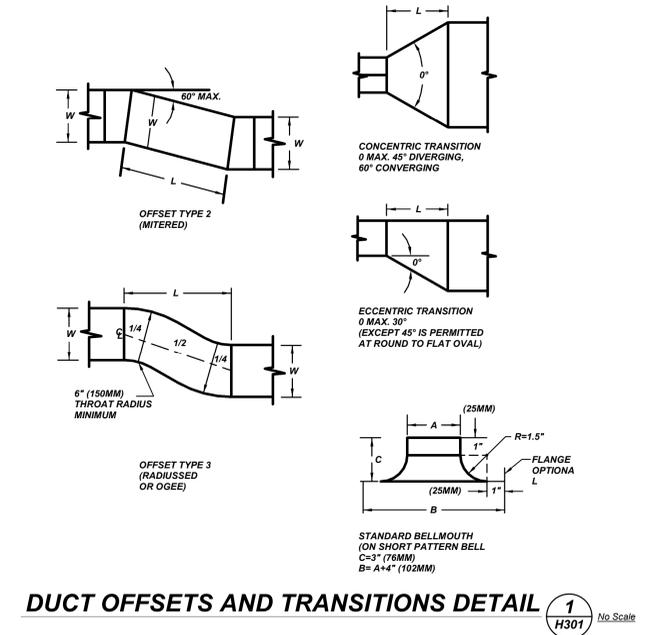
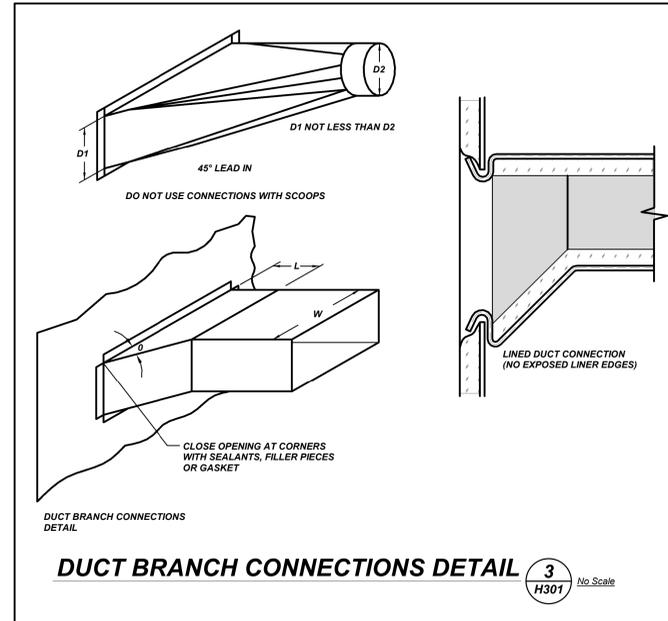
- AS MANUFACTURED BY "BELL & GOSSETT".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VFD.
- STANDBY SERVICE WITH LEAD/LAG OPERATION.

SCHEDULE OF EXPANSION TANKS

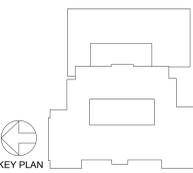
MARK	LOCATION	SERVICE	MODEL No. ①	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
(E) (C) (S)	BOILER ROOM	BMK-2000	B1000	264	264	REFER TO ② ③
(E) (C) (S)	BOILER ROOM	BMK-2000	B1000	264	264	REFER TO ② ③

NOTES

- AS MANUFACTURED BY "BELL & GOSSETT".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ASME RATED, VERTICAL FLOOR MOUNTING.



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



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Professional Seal

NYSED Project Control No.
50-03-04-03-0-003-019

Design Phase
ISSUE FOR BID

No.	Date	Issue
2	04/18/2025	ISSUE FOR BID
1	09/12/2024	CONSTRUCTION DOCUMENTS

SCHEDULES & DETAILS

Job No. 2024-1035 Date 04/18/2025
 Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number
H301

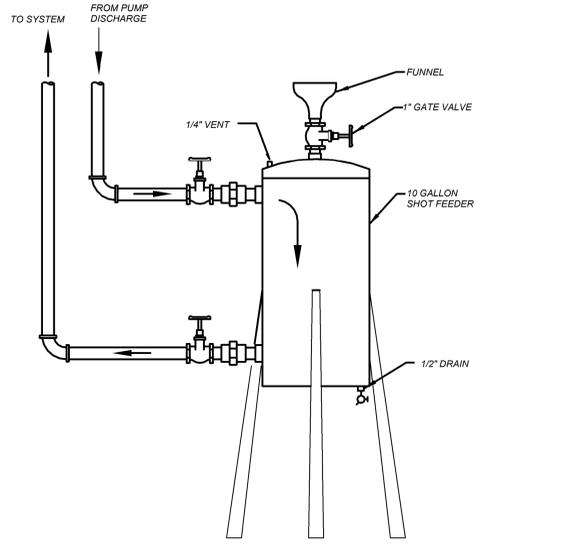
OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

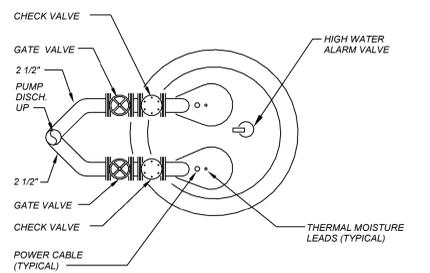
131 N Midland Ave
Nyack, NY, 10960

KG+D listen imagine build
KG+D ARCHITECTS, PC
 285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
 P: 914.666.5900 KGDARCHITECTS.COM

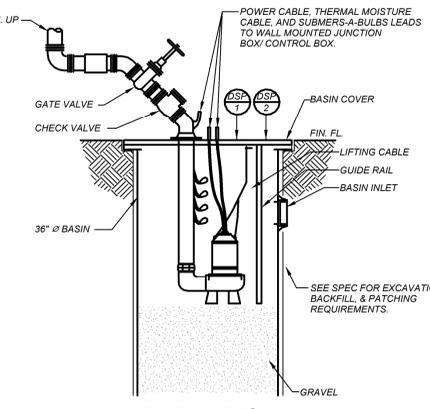
bga
BARILE GALLAGHER & ASSOCIATES
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 39 NARBURIE AVE. TULSAVILLE, NY 10757
 PH: 914.328.6500 FAX: 914.328.9348 Contact@BGA-A.com



MANUAL CHEMICAL BY-PASS & FEEDER DETAIL 5 H401 No Scale

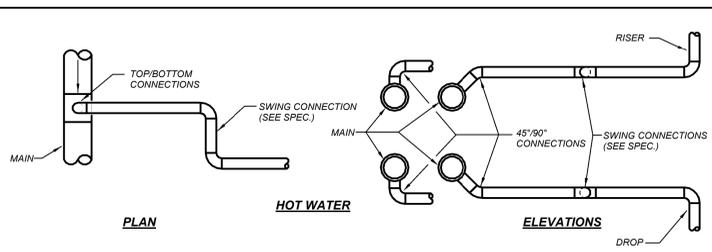


PLAN

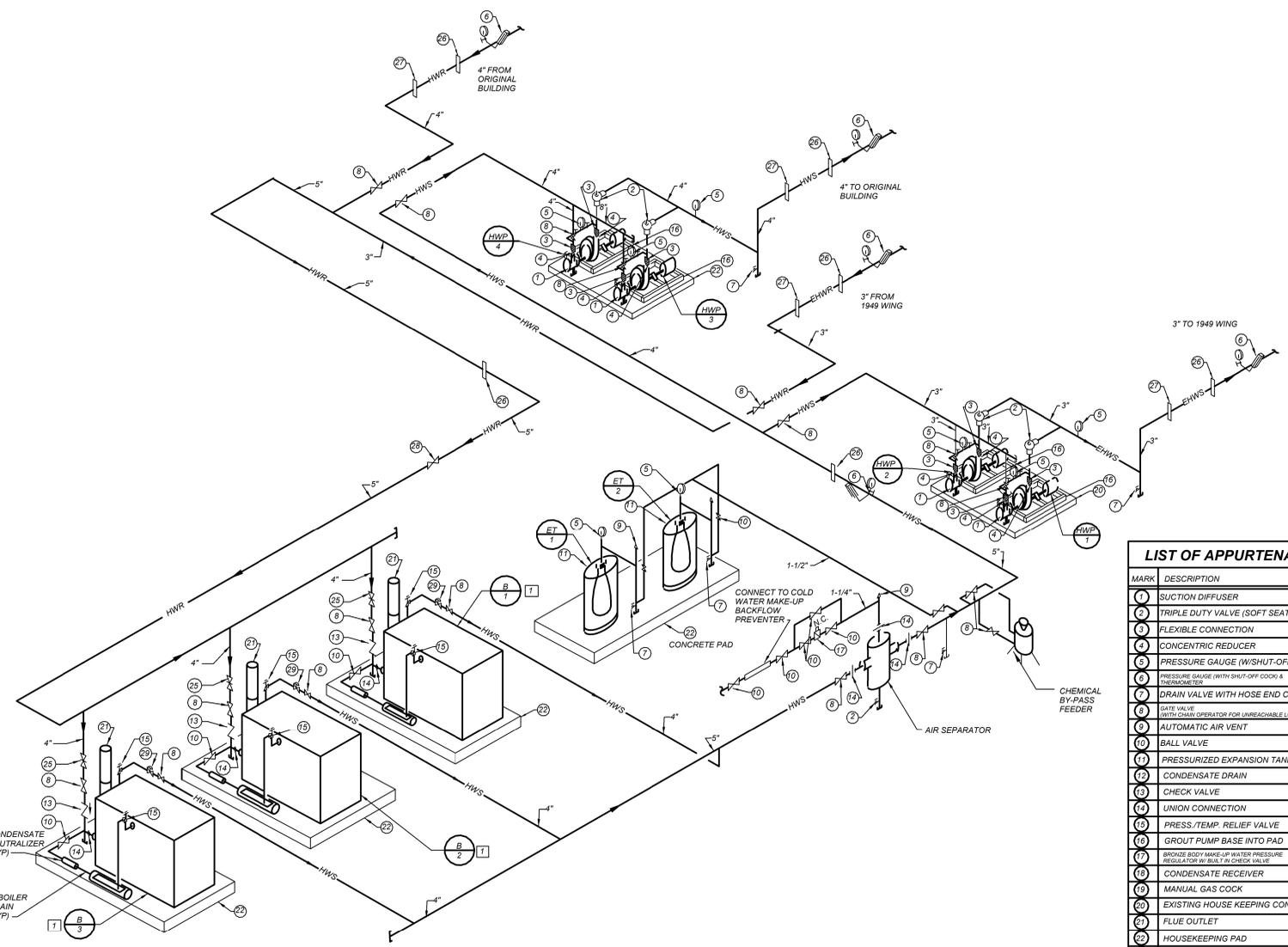


ELEVATION

DUPLEX SUMP PUMP DETAIL 6 H401 No Scale



PIPING BRANCH CONNECTION DETAIL 7 H401 No Scale

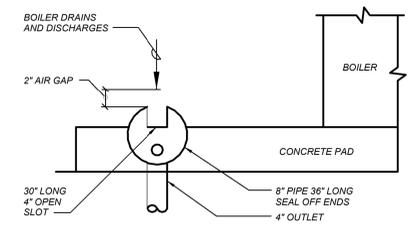


LIST OF APPURTENANCES

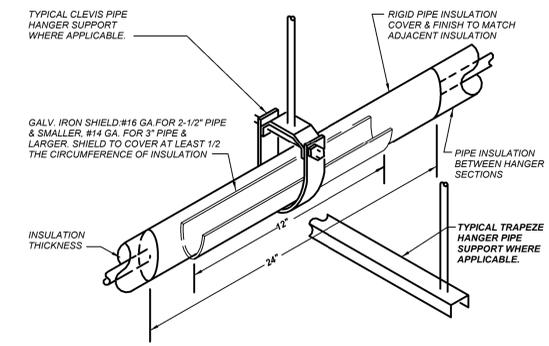
MARK	DESCRIPTION
1	SUCTION DIFFUSER
2	TRIPLE DUTY VALVE (SOFT SEAT)
3	FLEXIBLE CONNECTION
4	CONCENTRIC REDUCER
5	PRESSURE GAUGE (W/SHUT-OFF COCK)
6	PRESSURE GAUGE (WITH SHUT-OFF COCK & THERMOMETER)
7	DRAIN VALVE WITH HOSE END CONNECTION
8	GATE VALVE (WITH CHAIN OPERATOR FOR UNREACHABLE LOCATIONS)
9	AUTOMATIC AIR VENT
10	BALL VALVE
11	PRESSURIZED EXPANSION TANK
12	CONDENSATE DRAIN
13	CHECK VALVE
14	UNION CONNECTION
15	PRESS. /TEMP. RELIEF VALVE
16	GROUT PUMP BASE INTO PAD
17	BRONZE BODY MAKE-UP WATER PRESSURE REGULATOR W/ BUILT IN CHECK VALVE
18	CONDENSATE RECEIVER
19	MANUAL GAS COCK
20	EXISTING HOUSE KEEPING CONCRETE PAD
21	FLUE OUTLET
22	HOUSEKEEPING PAD
23	BOILER DRAIN
24	GAS PRESSURE REGULATOR
25	BALANCING VALVE
26	HEADER TEMPERATURE SENSOR
27	DIFFERENTIAL PRESSURE SENSOR (VFD)
28	BUTTERFLY VALVE
29	AUTOMATIC ISOLATION VALVE
30	MANUAL ISOLATION VALVE

- KEYED NOTES (NEW WORK)**
- PROVIDE (3) NEW CONDENSING HOT WATER BOILERS. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND OBTAIN ALL APPROVALS. SEE SPECIFICATIONS.
 - PROVIDE DUAL LOW WATER CUTOUTS FOR EACH BOILER.

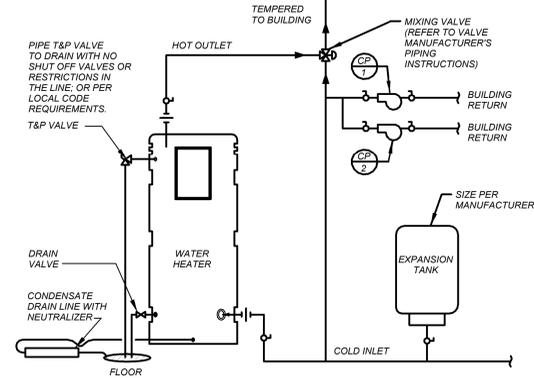
BOILER SCHEMATIC HEATING PIPING DIAGRAM 1 H401 No Scale



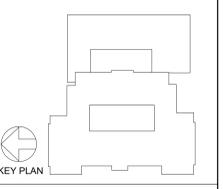
TROUGH DRAIN DETAIL 4 H401 No Scale



INSULATED PIPE HANGER DETAIL 3 H401 No Scale



CONDENSING HOT WATER HEATER 2 H401 No Scale



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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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DETAILS

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

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

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 39 N. BIBLE AVE. TULSA, OKLAHOMA 74106
 PH: 918.438.0000 FAX: 918.438.9348 Contact@BGA-Eng.com

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
- THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
- WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY "NOISY" WORK (CHOPPING, CORE DRILLING/HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
- ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RW) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
- CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL. SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
- FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 15'), IN LUGS/MISCELLANEOUS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
- PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
- ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
- PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
- THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
- EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
- WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
- CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
- PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
- ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
- THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
- PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
- COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
- ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
- MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
- ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.
- ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
- ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED UNLESS OTHERWISE NOTED. PROVIDE UL924 EMERGENCY RELAY TO BYPASS SWITCH UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF SWITCH POSITION.
- OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER MCP-25 (NO LESS THAN 2" THICK BACKED UP WITH MINERAL WOOL).
- ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK FROM DESIGN DRAWINGS.
- LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
- CONTRACTOR IS OBLIGATED TO INSTALL THE LIGHTING SYSTEM AND CONTROLS IN OBSERVANCE OF ALL APPLICABLE LOCAL AND NATIONAL CODES IN ACCORDANCE WITH APPROVED SUBMITTALS, INCLUDING ALL NOTES AND REVISIONS.
- LIGHTING CONTROL SYSTEM MANUFACTURER OR REPRESENTATIVE SHALL PROVIDE ORCHESTRATE PROJECT MANAGEMENT AND QUALIFIED STARTUP OR COMMISSIONING SERVICES TO MEET THE SPECIFICATION AND CONTROL INTENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, WIRING, PLACEMENT, AND ADJUSTMENT OF ALL SENSORS AS PER MANUFACTURER'S SPECIFICATIONS, ENGINEER'S DESIGN INTENT, AND APPROVED SUBMITTALS.

GENERAL REMOVAL NOTES

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

DISPOSAL OF MERCURY CONTAINING LAMPS

- ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS MATERIAL.
- FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT FIXTURES AND DISPOSED OF AS PER NEW YORK STATE DEC REGULATIONS AND METHODS.
- LAMPS MUST BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKING.
- EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING PHRASES: UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS.
- THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS.

ABBREVIATIONS

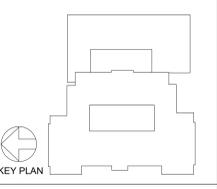
ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMP INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CH	CABINET HEATER
CKT	CIRCUIT
CU	CONDENSING UNIT
EM	EMERGENCY
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
F.A.C.P.	FIRE ALARM CONTROL PANEL
F.B.O.	FURNISHED BY OTHERS
G.G.RD	GROUND
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING UNIT
HWH	HOT WATER HEATER
kcmil	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
RECP	RECEPTACLE
TVSS	TRANSFER VOLTAGE SURGE SUPPRESSION SYSTEM
TYP.	TYPICAL
UH	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
W	WATT
WP	WEATHERPROOF

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
A	RECESSED	41 WATTS LED UNV	LBX LINEAR PENDANT MOUNTED LIGHT FIXTURE 8 5/8" X 48" 5500 LUMENS, 3500K, COLOR TEMP. PROVIDE HANGING BRACKET INCLUDING CHAINS AND WIRE GUARDS.	SIGNIFY DAY-BRITE LBX-55L-835-UNV-W-FD LBX-HANGER BKT LBX-WGUD4.
A EM	RECESSED	41 WATTS LED UNV	SAME AS TYPE "A" WITH EMERGENCY BATTERY BACK UP.	SIGNIFY DAY-BRITE LBX-55L-835-UNV-W-FD-EMLED LBX-HANGER BKT LBX-WGUD4.
	WALL MOUNT	6 WATTS LED UNV	LED STEEL HOUSING EXIT COMBINATION W/HEADS WITH 90 MINUTE EMERGENCY BATTERY PACK	ENCORE LIGHTING #LCS-2-PER DWG
	CEILING WALL MOUNT	1-5W LED UNV	LED EXIT LIGHTS, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF-POWERED MODEL WITH 90 MINUTE BATTERY.	ENCORE LIGHTING #LSE-6-R-1/U
	EXTERIOR WALL MOUNT	1-5W LED UNV	NEMA 4X EXTERIOR WEATHERPROOF LED EXIT LIGHTS, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF-POWERED MODEL WITH 90 MINUTE BATTERY.	ENCORE LIGHTING #LE4X-6-R-1/U

LEGEND

	2x4' LED LIGHT FIXTURE, UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	2x4' LED LIGHT FIXTURE FOR CONNECTED TO EMERGENCY SOURCE 'EM'. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX. DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
S	FLUSH WALL MOUNTED LIGHTING CONTROL TOGGLE SWITCH.
S T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S 2T	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH, SIMILAR TO EATON #AH4361 + #AHZ7940G NEMA 1 ENCLOSURE.
S 3K a	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "a", "K" WHERE USED INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH, '4' INDICATES 4-WAY SWITCH.
S M	FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW-100. WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION.
S V	WALL RECESS MOUNTED DUAL TECHNOLOGY VACANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DSW-100. MANUAL ON, AUTO OFF.
	CEILING/WALL MOUNTED JUNCTION BOX.
	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4" U.O.N.
	HOMERUN TO DESIGNATED PANEL, NUMBERS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE TAMPER RESISTANCE WALL MOUNTED DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5382WTR
	SAME AS ABOVE EXCEPT DOUBLE DUPLEX RECEPTACLE.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE TAMPER RESISTANCE USB PORT WALL MOUNTED DUPLEX RECEPTACLE SIMILAR TO HUBBELL #USB 20ASW
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, 'NF' INDICATES NON-FUSED (OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE.
	WALL MOUNTED COMBINATION FIRE ALARM SPEAKER/STROBE DEVICE.
	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR
	CEILING OR WALL MOUNTED GAS LEAK DETECTOR
	CEILING MOUNTED HEAT DETECTOR
	WALL MOUNTED FIRE ALARM STROBE LIGHT.
	FIRE ALARM CONTROL PANEL.
	FIRE ALARM ALPHANUMERIC ANNUNCIATOR PANEL.
	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	BREAK GLASS STATION FOR BOILER SHUTDOWN.
	TAG SYMBOL, NUMERAL DENOTES REFERENCE TO A WORK NOTE.
MECHANICAL EQUIPMENT IDENTIFICATION:	
	EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
	EQUIPMENT NUMBER
DETAIL/PART PLAN NUMBER IDENTIFICATION:	
	DETAIL/PART PLAN NUMBER
	DRAWING NUMBER



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Design Phase
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2	04/18/2025	ISSUE FOR BID
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LEGEND, ABBREVIATIONS AND NOTES

Job No. 2024-1035 Date 04/18/2025
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 Sheet Number

E001

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

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

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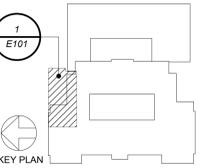


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BOILER ROOM REMOVAL PLAN 1 E101



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- REMOVAL WORK NOTES**
- 1 EXISTING BOILER TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.
 - 2 EXISTING BOILER CONTROL PANEL TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.
 - 3 EXISTING HOT WATER PUMP TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.
 - 4 EXISTING HOT WATER HEATER TO BE REMOVED BY OTHERS. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.
 - 5 EXISTING SUMP PUMP TO BE REMOVED BY OTHERS. EC SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.
 - 6 EXISTING LIGHTING AND LIGHTING SWITCHES IN BOILER ROOM SHALL BE REMOVED AND REPLACED WITH NEW BY ELECTRICAL CONTRACTOR. REMOVE ALL ASSOCIATED WIRING, CONDUITS AND SWITCHING IN ITS ENTIRETY BACK TO THE POWER SOURCE. SEE 1/E201 FOR NEW LIGHTING LAYOUT.
 - 7 EXISTING RECEPTACLE SHALL BE REPLACED WITH NEW 120V, 20 AMPERE RATED GFCI RECEPTACLE.
 - 8 EXISTING PUMP TO BE REMOVED BY OTHERS. EC SHALL REMOVE ALL ASSOCIATED WIRING, CONDUITS, DISCONNECT SWITCHES AND ACCESSORIES IN ITS ENTIRETY BACK TO THE POWER SOURCE.

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

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Design Phase
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No.	Date	Issue
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Sheet Title
BOILER ROOM REMOVAL PLAN

Job No.	2024-1035	Date	04/18/2025
Scale	AS NOTED	Drawn / Checked	BGA / BGA

Sheet Number
E101

OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

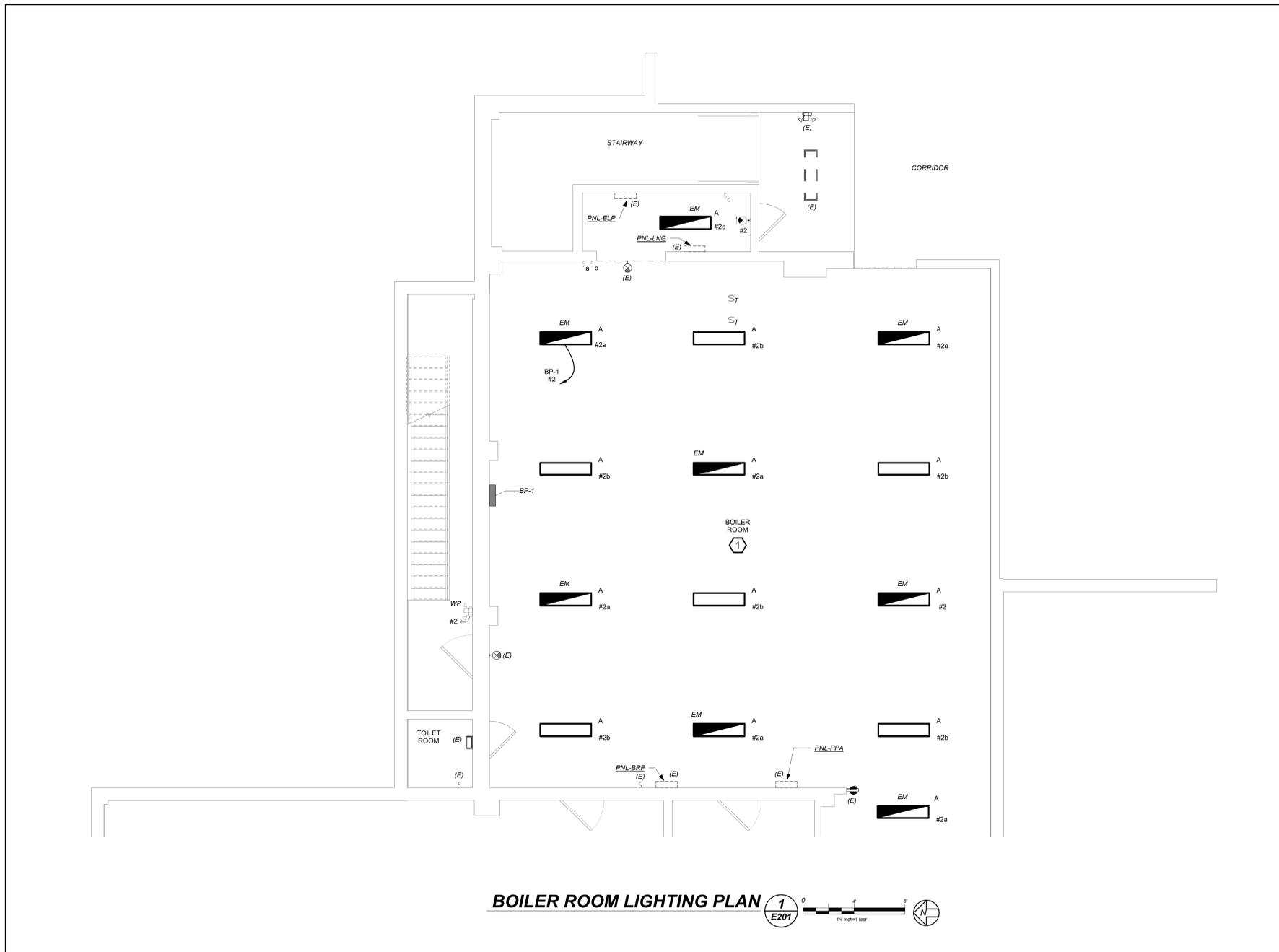
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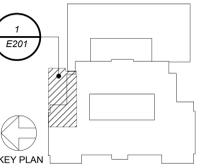


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BOILER ROOM LIGHTING PLAN 1 E201



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WORK NOTES

1 COORDINATE LIGHTING FIXTURE LAYOUT WITH MECHANICAL CONTRACTOR BASED ON EQUIPMENT AND DUCT WORK LAYOUT TO OBTAIN OPTIMUM FIXTURE LAYOUT / ILLUMINANCE.

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BOILER ROOM LIGHTING PLAN

Job No. 2024-1035 Date 04/18/2025
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Sheet Number
E201

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OLD NYACK HIGH SCHOOL

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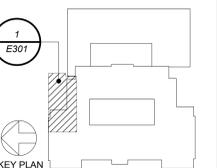
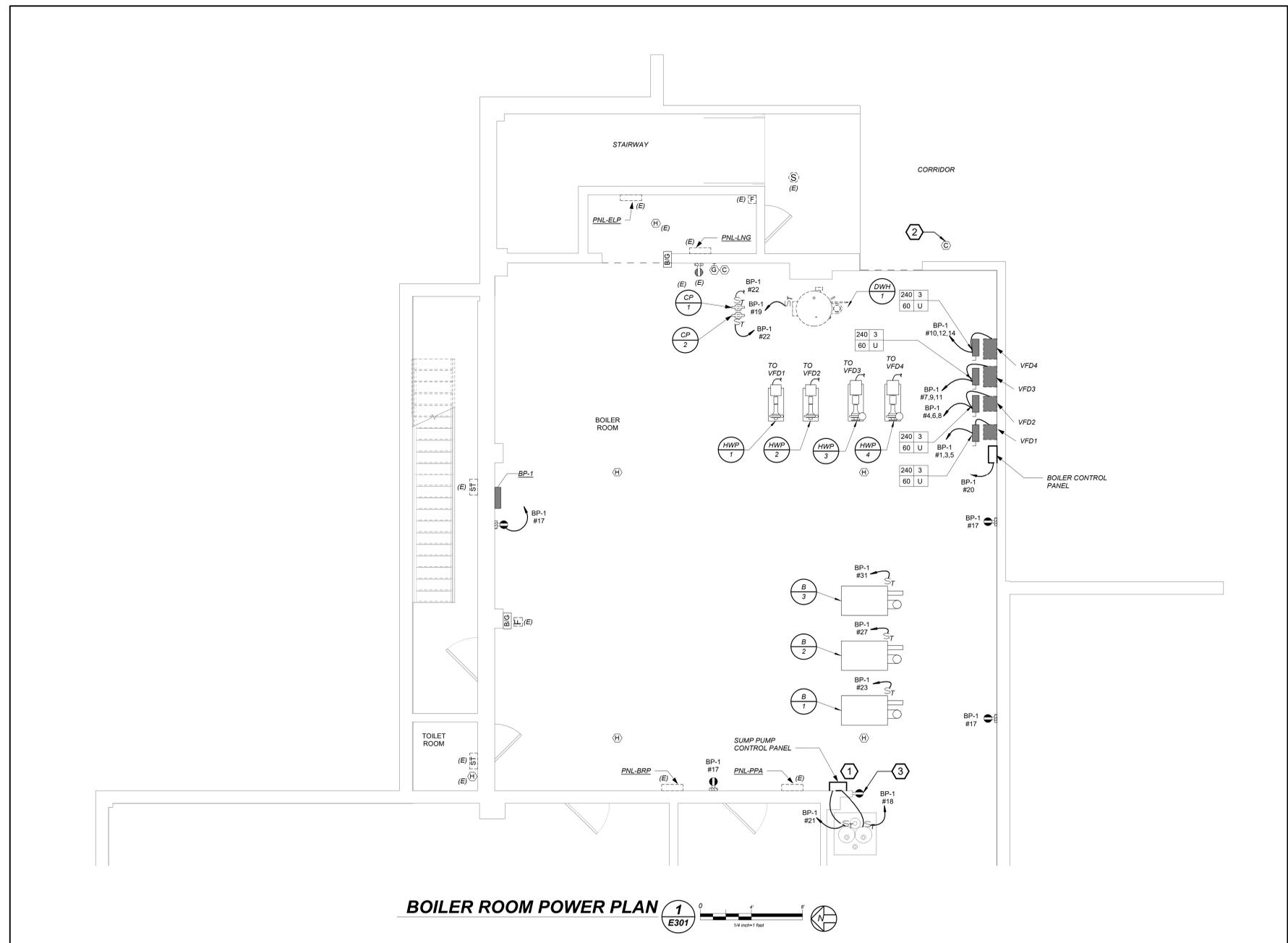


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WORK NOTES	
1	NEW SUMP PUMP CONTROL PANEL. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION IN FIELD WITH PLUMBING CONTRACTOR.
2	NEW CARBON MONOXIDE DETECTOR SHALL BE MOUNTED IN THE CORRIDOR OUTSIDE OF THE BOILER ROOM. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3	EXISTING RECEPTACLE SHALL BE REPLACED WITH NEW 120V, 20 AMPERE RATED GFCI RECEPTACLE.

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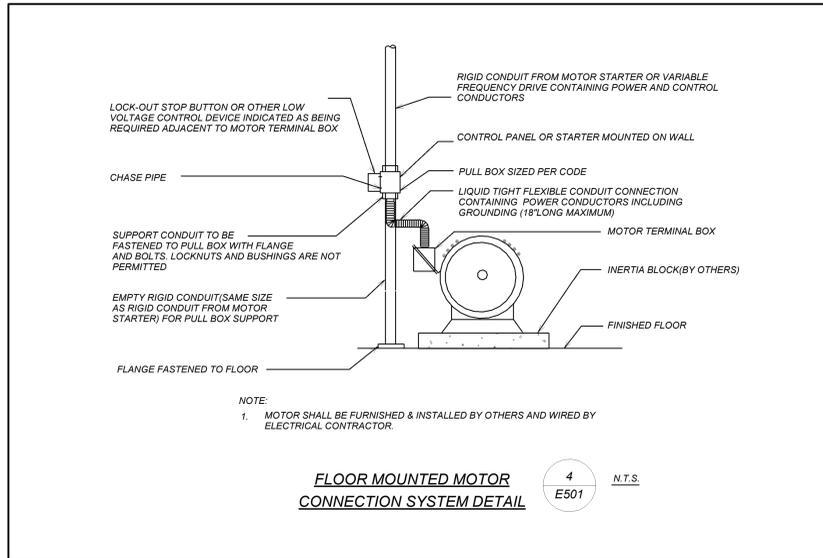
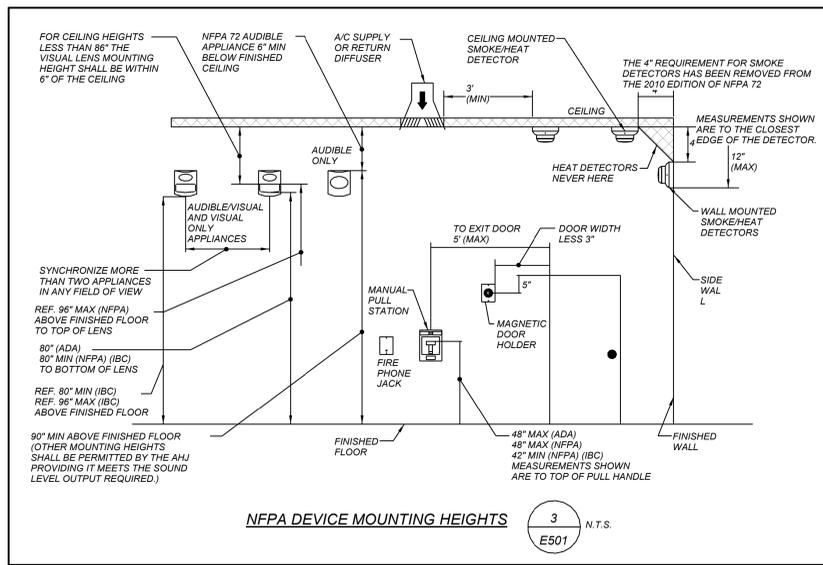
Design Phase
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No.	Date	Issue
2	04/18/2025	ISSUE FOR BID
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BOILER ROOM POWER PLAN

Job No. 2024-1035 Date 04/18/2025
Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number
E301



Branch Panel: BP-1

Location: BOILER ROOM 08
Supply From:
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating: 22,000
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

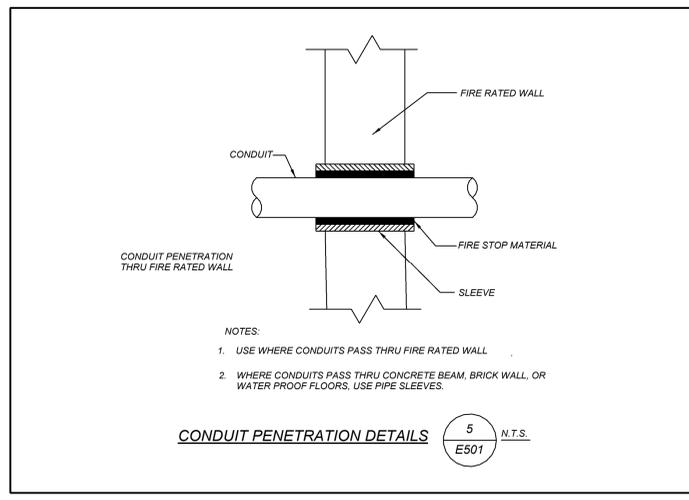
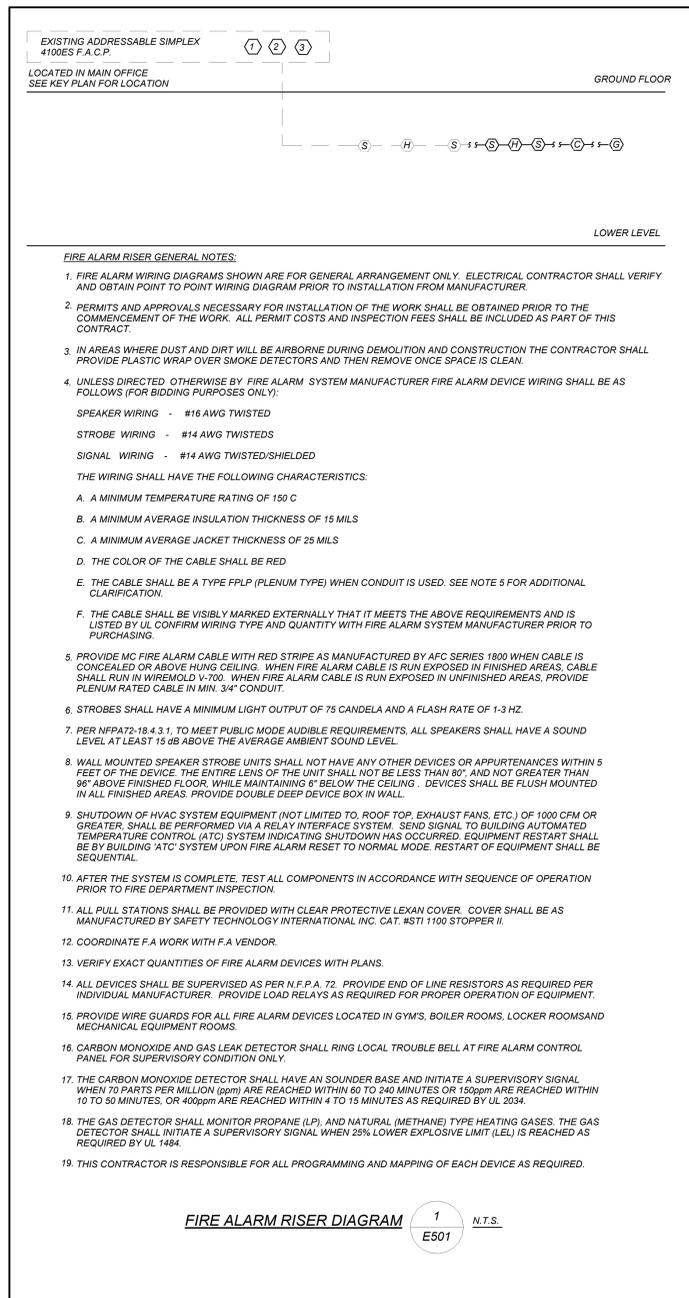
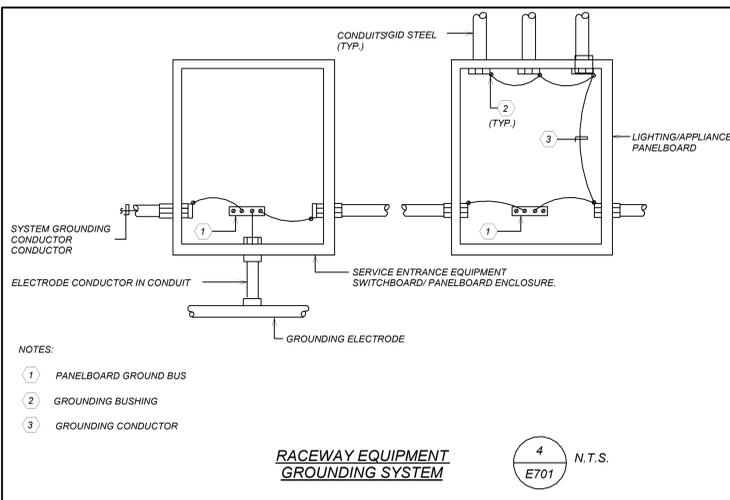
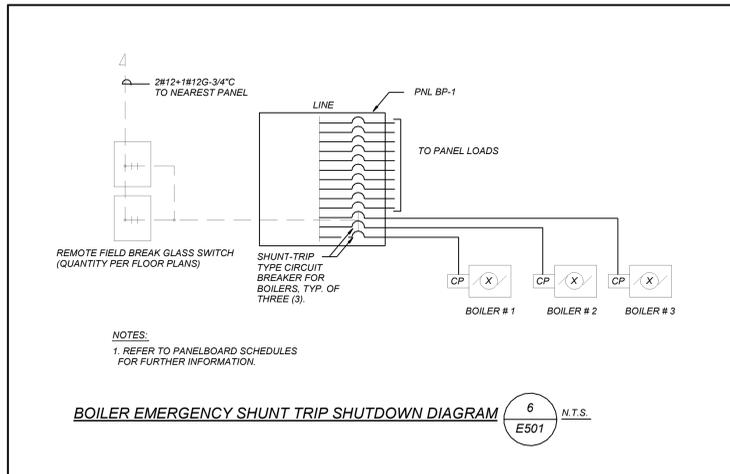
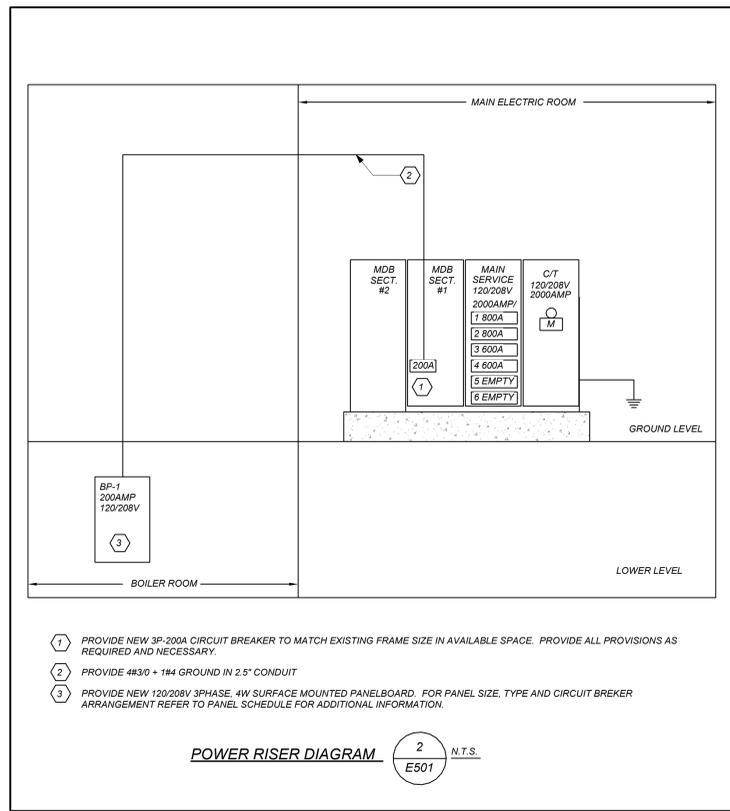
Notes: BOILER #1, BOILER #2, BOILER #3 CIRCUIT BREAKERS SHALL BE SHUNT TRIP TYPE AND INTEGRATED WITH NEW BREAK GLASS STATIONS.

CKT	TRIP	Circuit Description	Wire Size	Conduit Size	A	B	C	A	B	C	Conduit Size	Wire Size	Circuit Description	TRIP	CKT
1	25 A	HWP-1	3#10 + 1#10G	3/4"C	2005 VA	2005 VA	616 VA	2005 VA		3/4"C	2#12 + 1#12G	Lighting	20 A	2	
3													20 A	4	
5													25 A	6	
7	50 A	HWP-3	3#8 + 1#10G	3/4"C	3483 VA	3483 VA	2005 VA	3483 VA	2005 VA	3/4"C	3#10 + 1#10G	HWP-2	25 A	8	
9													20 A	10	
11													50 A	12	
13	20 A	Spare			0 VA								20 A	14	
15	20 A	Spare			0 VA			0 VA					20 A	16	
17	20 A	GFCI CONVENIENCE	2#12 + 1#12G	3/4"C			720 VA			3/4"C	2#12 + 1#12G	SUMP PUMP #1	20 A	18	
19	20 A	HOT WATER HEATER	2#12 + 1#12G	3/4"C	1200 VA			180 VA		3/4"C	2#12 + 1#12G	BOILER CONTROL...	20 A	20	
21	20 A	SUMP PUMP #2	2#12 + 1#12G	3/4"C		1920 VA				3/4"C	2#12 + 1#12G	CP	20 A	22	
23	30 A	BOILER #1	2#10 + 1#10G	3/4"C		1920 VA				3/4"C	0 VA		20 A	24	
25	20 A	SHUNT TRIP			0 VA			0 VA					Spare	20 A	
27	30 A	BOILER #2	2#10 + 1#10G	3/4"C		1920 VA				3/4"C	0 VA		Spare	20 A	
29	20 A	SHUNT TRIP			0 VA			0 VA					Spare	20 A	
31	30 A	BOILER #3	2#10 + 1#10G	3/4"C	1920 VA			0 VA		3/4"C	0 VA		Spare	20 A	
33	20 A	SHUNT TRIP			0 VA			0 VA					Spare	20 A	
35	20 A	Spare			0 VA			0 VA					Spare	20 A	
37	20 A	Spare			0 VA			0 VA					Spare	20 A	
39	20 A	Spare			0 VA			0 VA					Spare	20 A	
41	20 A	Spare			0 VA			0 VA					Spare	20 A	
		SUBTOTAL			14892 VA		16136 VA			15536 VA				20 A	42

Legend:

PANEL TOTALS	Load Classification	Connected Load (VA)	Estimated Demand (VA)
Total Conn. Load:	Motor	45048 VA	45048 VA
Total Est. Demand:	Other	180 VA	180 VA
Total Conn. SHUNT TRIP BREAKER 129 A	Lighting	616 VA	616 VA
Total Est. Demand:	Total Connected Load	720 VA	720 VA

Notes:



OLD NYACK HIGH SCHOOL BOILER REPLACEMENT

OLD NYACK HIGH SCHOOL

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RISER, SCHEDULES AND DETAILS

Job No. 2024-1035 Date 04/18/2025

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E501

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