



## Architectural Services

130 Regional Park Drive  
Kingsport, TN 37660  
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[www.grcinc.com](http://www.grcinc.com)

# ADDENDUM ONE

Project: **Sullivan County Schools East High School Science Classroom Renovations**

Address: **4180 Weaver Pike, Bluff City, TN**

May 16, 2023

This Addendum is part of the Contract Documents for the above referenced project and modifies the original drawings and/or specifications, dated **May 1, 2023**, as noted below. The bidder shall acknowledge receipt of this Addendum in the place provided in the Bid Form. The published bid date and time shall remain the same.

#### GENERAL:

1. See attached Pre-Bid Meeting sign in sheet.

#### CLARIFICATION:

1. The existing roof is a FirberTite – XT membrane with a warranty that expires on June 2, 2023.

#### DRAWINGS:

1. **DRAWING A-03** – Clarification – The existing fume hood in room A-3 is to remain if Alternate NO. 2 is not accepted.
2. **DRAWING M-10** – See revisions for fire dampers within the corridor wall penetrations.
3. **DRAWING P-01** – See revisions to the water heater piping.
4. **DRAWING P-10** – See revisions to the water heater piping and LP gas installation.
5. **DRAWING P-11** – See revisions to the water heater piping.

#### SPECIFICATIONS:

1. **TITLE PAGE** – See Specification Title Page with the corrected issue date of May 1, 2023.
2. **Bid Form** – Clarification regarding the Project Duration and the Completion Date: The project is to be completed by September 30, 2023, however the Project Duration provided within the Bid Form will be evaluated on how or if the project can move forward if the duration extends beyond the Completion Date.

#### Cain Rash West Architects

Richard Lutz

OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT

3411 HIGHWAY 126-SUITE 201  
BLOUNTVILLE, TN 37617-0569

KRISTINIA DAVIS  
PURCHASING AGENT

PHONE 423-323-6400  
FAX 423-323-7249  
kris.davis@sullivancountyttn.gov

PRE-BID ATTENDANCE RECORD

DATE: 05.10.2023 TIME: 1:00PM

PROJECT DESCRIPTION: Sullivan East HS Science Classroom Renovation

LOCATION OF PROJECT: Sullivan East High School

\*NOTE: MANDATORY PRE-BID MEETING REQUIRES REPRESENTATION OF COMPANY AGENT, VERIFIED BY REGISTRATION, TO AFFORD AN OPPORTUNITY FOR COMPANY TO OFFER A PRICED PROPOSAL.

Purchasing Dept: Michelle Ramsey

YOUR NAME	COMPANY / AGENCY	PHONE NUMBER	EMAIL ADDRESS
<u>Charles Condit</u>	<u>Condit Const</u>	<u>423-335-6094</u>	<u>CONDIT@CONDITCONSTRUCTION.COM</u>
<u>CHARLES HUBBARD</u>	<u>SCDK</u>	<u>423-354-1151</u>	<u>CHARLES.HUBBARD@SULLIVANK12.EDU</u>
<u>RODNEY CONDUIT</u>	<u>PRESTON CONST.</u>	<u>423-439-9831</u>	<u>RODNEY@PRESTONCONSTRUCTION.COM</u>
<u>RICHARD WY2</u>	<u>CRW</u>		<u>RICKL@GRELLX.COM</u>

PROJECT MANUAL  
INCLUDING SPECIFICATIONS FOR



**SULLIVAN EAST HIGH SCHOOL  
SCIENCE CLASSROOM RENOVATIONS**

4180 WEAVER PIKE, BLUFF CITY, TN 37618

SULLIVAN COUNTY SCHOOLS  
BLOUNTVILLE, TENNESSEE

Prepared by



**Architectural  
Services**

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**VREELAND ENGINEERS INC.**  
CONSULTING ELECTRICAL ENGINEERS

3107 SUTHERLAND AVENUE  
P.O. BOX 10648  
KNOXVILLE, TENNESSEE 37939-0648  
PHONE 865/637-4451 FAX 865/637-1558



May 1, 2023

GENERAL NOTE: ALL WORK ON THIS SHEET TO BE PART OF ALTERNATE #2

**HVAC SPECIFICATIONS**

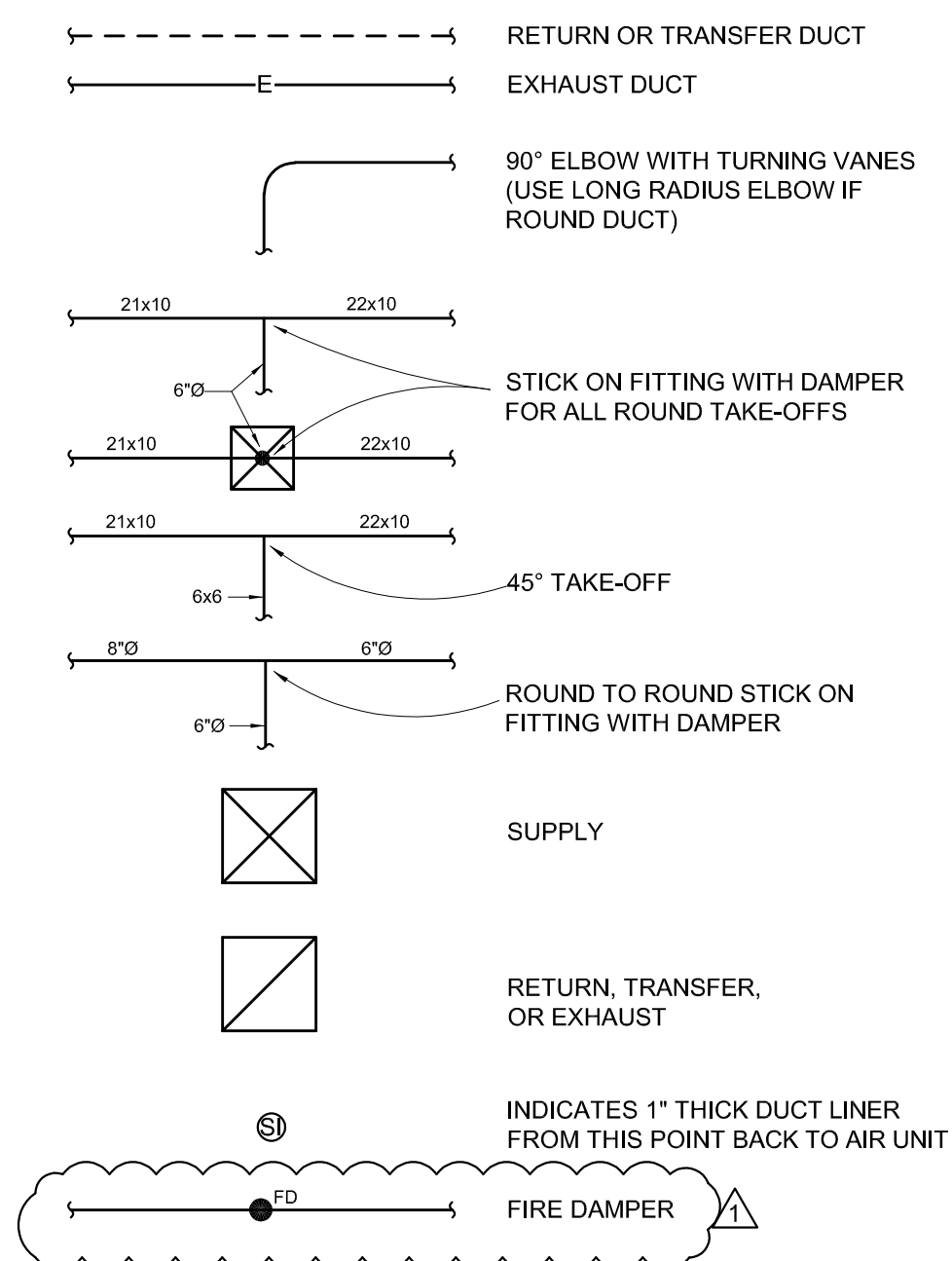
- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- ALL DUCTWORK SHALL BE GALVANIZED STEEL (EXCEPT WHERE NOTED) FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
- FLEXIBLE DUCT FOR NON-INSULATED DUCT SYSTEMS SHALL BE THERMAFLEX S-LD, OR EQUAL. ALL FLEXIBLE DUCT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. DUCT RUNS SHALL BE AS STRAIGHT AS POSSIBLE AND LIMITED TO MAXIMUM OF 5 FEET IN LENGTH.
- INSTALL SINGLE WALL TURNING VANES AT RIGHT ANGLES AND SMALL RADIUS TURNS IN DUCTS. MAKE REDUCTIONS IN DUCT SIZE WITH TAPERED TRANSITION PIECES. TRANSITIONS FOR CONNECTIONS TO EQUIPMENT SHALL BE DESIGNED TO SUIT CONDITIONS AND SO THAT AIR FLOW IS NOT RESTRICTED.
- FOR WALLS RATED FOR LESS THAN THREE HOURS, FIRE DAMPERS SHALL BE GREENHECK TYPE DFD-150, DFD-150X, OR APPROVED EQUAL. FOR WALLS RATED THREE HOURS OR GREATER, FIRE DAMPERS SHALL BE GREENHECK TYPE DFD-350 OR APPROVED EQUAL. DAMPERS SHALL BE DYNAMIC RATED WITH SLEEVE, ANGLES AND BLADES NOT IN THE AIR STREAM UNLESS THE DAMPER IS INSTALLED IN A WALL BEHIND A GRILLE IN WHICH CASE BLADES IN THE AIRSTREAM WILL BE ALLOWED. GREENHECK DFD-110 DYNAMIC RATED, THIN LINE DAMPERS MAY BE USED IN WALLS WHERE SPACE DOES NOT PERMIT THE USE OF DFD-150 DAMPERS. DAMPERS SHALL BE CONSTRUCTED OF GALVANIZED STEEL. ACCESS PANELS OR DOORS SHALL BE PROVIDED FOR RESETTING THE FIRE DAMPER.
- LINE ALL DUCTWORK WITH 1" THICK OWENS-CORNING FIBERGLASS DUCT LINER WHERE INDICATED ON THE DRAWINGS.
- ANY CUTS OR PENETRATIONS THROUGH THE EXISTING ROOF SHALL BE REPAIRED AND MADE WATERTIGHT IN A MANNER TO MAINTAIN THE EXISTING ROOF WARRANTY.
- WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

**GRILLES AND CEILING OUTLET SPECIFICATIONS**

GRILLES AND CEILING OUTLETS SHALL BE PRICE, OR EQUAL, STEEL CONSTRUCTION WITH ELECTRO-DEPOSITION PAINTED FINISH, SIZE SHOWN ON THE DRAWINGS AND SCHEDULED AS FOLLOWS.

CT CEILING TRANSFER, PRICE MODEL 800-TB EGG CRATE TRANSFER GRILLE, LAY-IN TYPE, 1/2" CUBES WITH OPPOSED BLADE DAMPER. FURNISH WITH SQUARE-TO-ROUND ADAPTER WHERE ROUND DUCT IS INDICATED ON DRAWINGS.

**DUCT LEGEND**

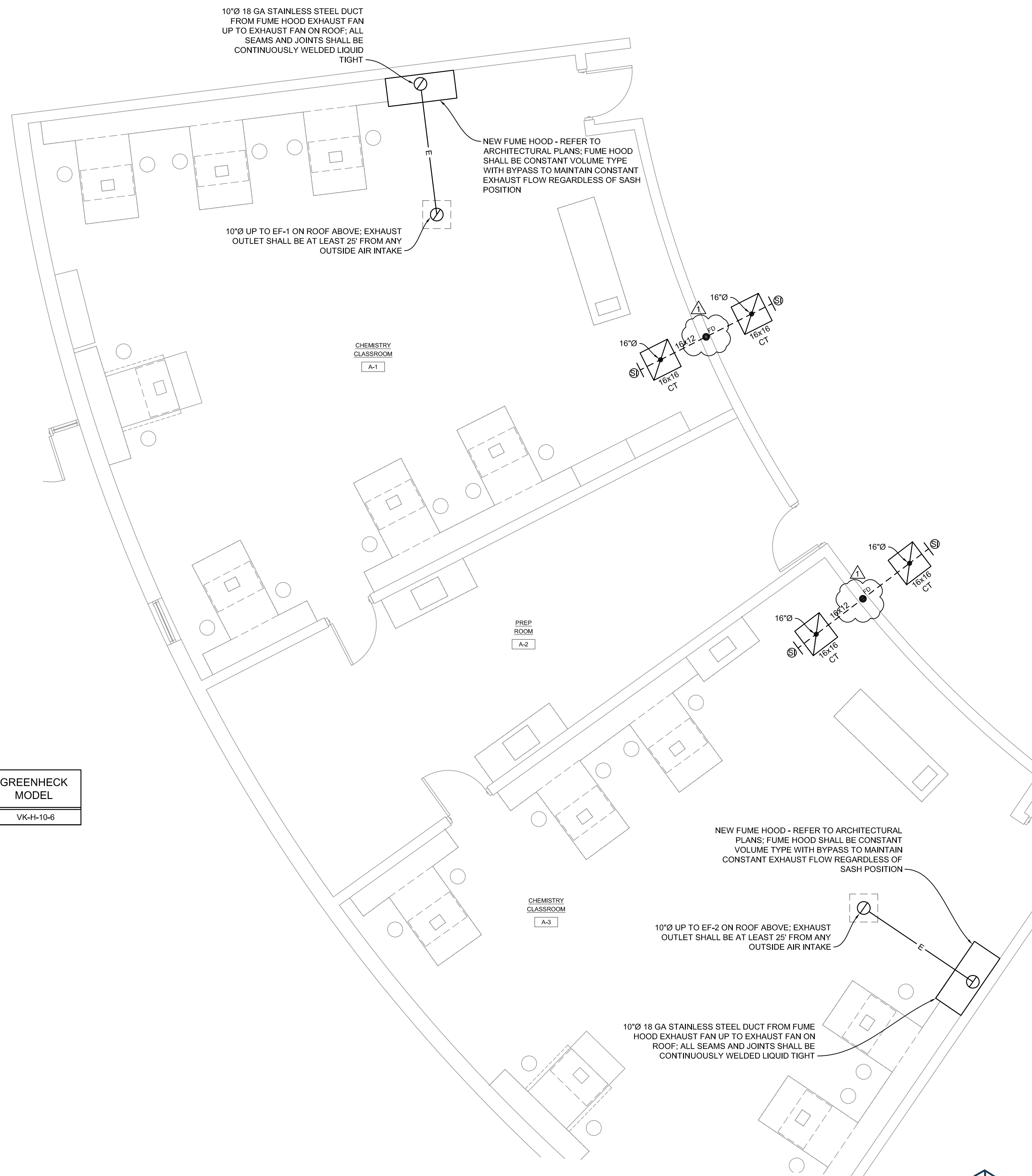


**EXHAUST FAN (EF) SCHEDULE - ALTERNATE #2**

MARK	CFM	EXT. STATIC (INCHES W.G.)	TYPE	HP	RPM	INLET SONES	OUTLET SONES	WEIGHT (LBS)	VOLTS/PHASE	GREENHECK MODEL
1 2	740	0.40	ROOF/LAB	1/2	2,425	14.4	10.9	325	208/3	VK-H-10-6

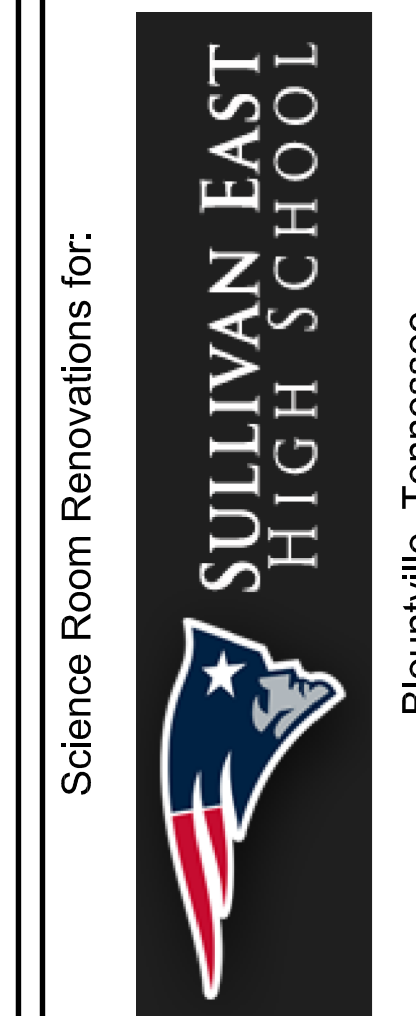
**NOTES:**

- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT; PROVIDE MAGNETIC MOTOR STARTER
- PROVIDE SWITCH CONTROL AT CORRESPONDING FUME HOOD
- PROVIDE TUBULAR HOUSING WITH HIGH PLUME DISCHARGE NOZZLE, CENTRIFUGAL BACKWARD INCLINED ALUMINUM WHEEL
- FANS SHALL HAVE SPARK RESISTANT C CERTIFICATION
- AIR OUTLET SHALL BE AT LEAST 10' FROM ROOF SURFACE



TRUE NORTH  
1/4"=1'-0"  
**FLOOR PLAN - HVAC**

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Blountville, Tennessee

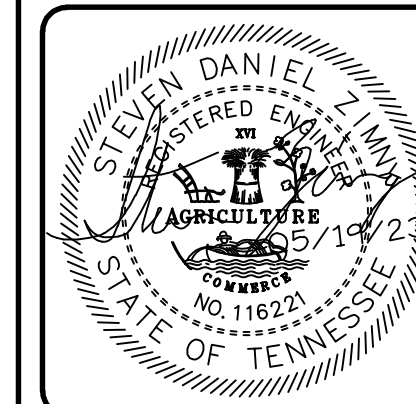
**Cain  
Rash  
West**

Architects

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no.	date	rev. description
1	5/19/23	ADDENDUM 1

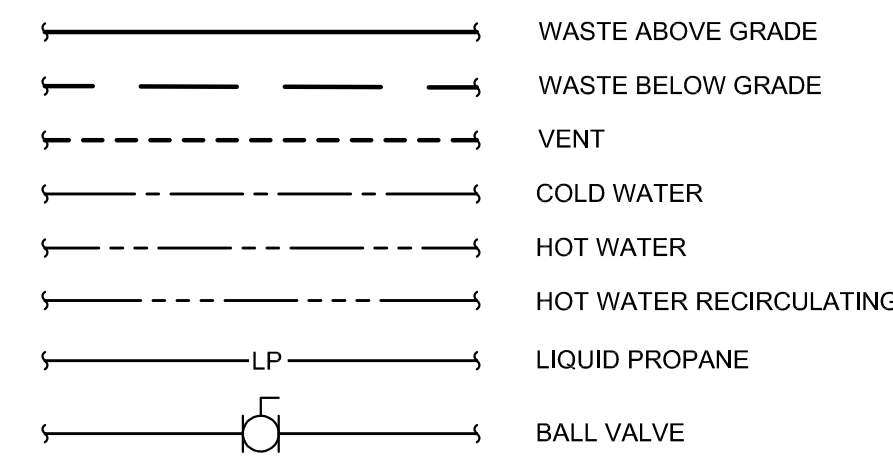


issued 01 MAY 2023  
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project no. 202000

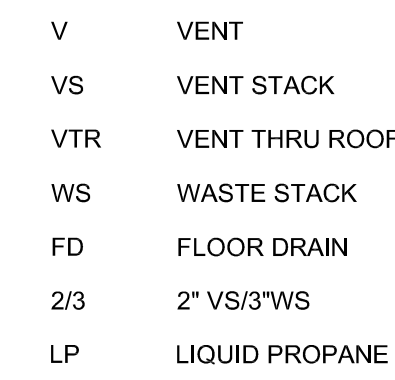
FLOOR PLAN - HVAC

M-10

**PLUMBING LEGEND**



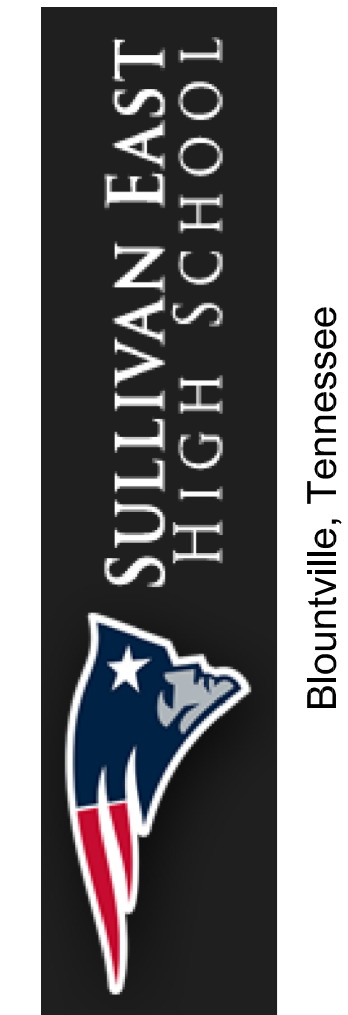
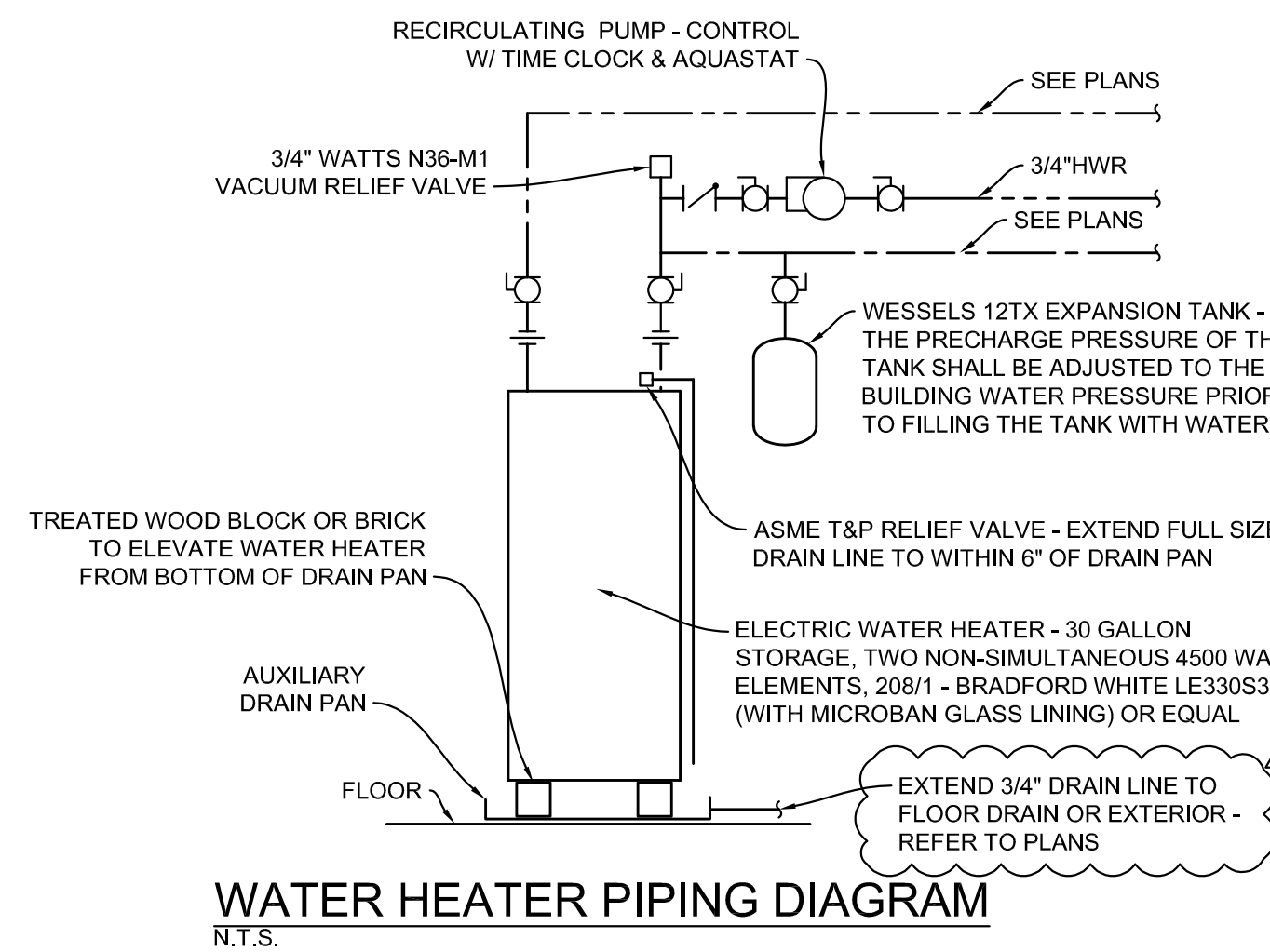
**PLUMBING SYMBOLS**



**PLUMBING SPECIFICATIONS**

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF FIXTURES AND EQUIPMENT AND THE ROUTING OF PIPING IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE PLUMBING DRAWINGS.
- INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC SOLID WALL-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
- THE TOP OF ANY BELOW SLAB PIPING SHALL BE NO LESS THAN 2" FROM THE BOTTOM OF THE SLAB.
- INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS AT BASE OF ALL SOIL AND WASTE STACKS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
- THIS CONTRACTOR IS TO ARRANGE WITH THE LOCAL UTILITY COMPANY FOR INSTALLATION OF THE LP SERVICE, METER, REGULATOR, ETC. AND PAY ALL COSTS FOR PERMITS, FEES, INSTALLATION AND INSPECTIONS.
- INSTALLATION OF LP PIPING SHALL COMPLY WITH THE LOCAL UTILITY CO., INTERNATIONAL GAS CODE, NFPA AND ALL OTHER AGENCIES HAVING JURISDICTION. ABOVE GROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASSEMBLED WITH MALLEABLE IRON FITTINGS & GROUND JOINT UNIONS. LP PIPING AT EACH APPLIANCE SHALL HAVE DIRT LEG & AND AGA GAS COCK. PAINT ALL LP PIPING ON THE EXTERIOR AND INTERIOR OF THE BUILDING WITH TWO COATS OF CAUTION YELLOW PAINT.
- UNDERGROUND LP PIPING SHALL BE COATED TYPE AS APPROVED AND USED BY THE UTILITY AND SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18" BELOW FINISHED GRADE. AT THE CONTRACTOR'S OPTION, UNDERGROUND GAS PIPING MAY BE PEXCO YELLOWPIPE, OR EQUAL POLYETHYLENE TYPE II, CLASS B, CATEGORY 5, GRADE P24 OR AS APPROVED BY THE LOCAL UTILITY.
- ABOVE GRADE DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER, TYPE "L" PIPING ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. CONNECTIONS OF COPPER PIPE TO FERROUS PIPE SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
- DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYLENE PEXA AS MANUFACTURED BY REHAU. FITTINGS SHALL BE AS RECOMMENDED BY THE PEX MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER, INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER.
- ALL COLD WATER, HOT WATER AND HOT WATER RECIRCULATING LINES SHALL BE INSULATED WITH ARMAFLEX, OR EQUAL, WITH A FLAME SPREAD AND SMOKE DEVELOPED RATING NOT EXCEEDING 25 AND 50 RESPECTIVELY.
  - COLD WATER
    - 1/2" TO 1 1/2" PIPE - 1/2" THICK INSULATION
    - 1 1/2" TO 8" PIPE - 1" THICK INSULATION
  - HOT WATER & HOT WATER RECIRCULATING
    - 1/2" TO 1 1/2" PIPE - 1" THICK INSULATION
    - 1" TO 8" PIPE - 1 1/2" THICK INSULATION
- HOT WATER CIRCULATOR SHALL BE GRUNDFOS UPS 15-55 SFC, OR APPROVED SUBSTITUTE, STAINLESS STEEL HOUSING, CERAMIC AXIAL BEARINGS, STAINLESS STEEL ROTOR CAN AND BEARING PLATE AND CORROSION RESISTANT COMPOSITE IMPELLER CAPABLE OF CIRCULATING 8 GPM AT 10 FEET HEAD, FURNISHED WITH MANUAL STARTER AND STRAP-ON AQUASTAT.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- AFTER THE WATER SYSTEM HAS BEEN TESTED FOR LEAKS AND BEFORE THE SYSTEM HAS BEEN PLACED IN USE, INTRODUCE HTH SOLUTION, CHLORINE GAS, OR OTHER SIMILAR CHLORINATING AGENT IN SUFFICIENT QUANTITY TO PRODUCE A RESIDUAL OF 100 PPM THROUGHOUT THE ENTIRE SYSTEM AND ALLOW TO STAND THUS FILLED FOR 24 HOURS. AFTER THE 24 HOURS PERIOD, FLUSH CLEAN WATER THROUGHOUT THE PIPING SYSTEM UNTIL ALL NOTICEABLE TRACE OF CHLORINE GAS HAS DISAPPEARED. VERIFY PROCEDURES AND TESTING REQUIREMENTS WITH THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

PLUMBING FIXTURE SCHEDULE		
ITEM	DESCRIPTION	Specification
FD	FLOOR DRAIN	ZURN, ZN415-5BZ1 FLOOR OR SHOWER DRAIN, DURA-COATED CAST IRON BODY, 5" ROUND POLISHED NICKEL BRONZE STRAINER, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT
	TRAP SEAL	ZURN, Z1072 ZSHIELD BARRIER TRAP SEAL DEVICE



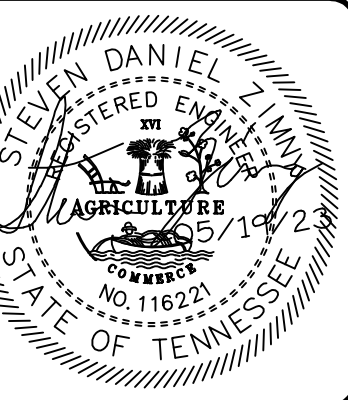
Science Room Renovations for:



130 Regional Park Dr.  
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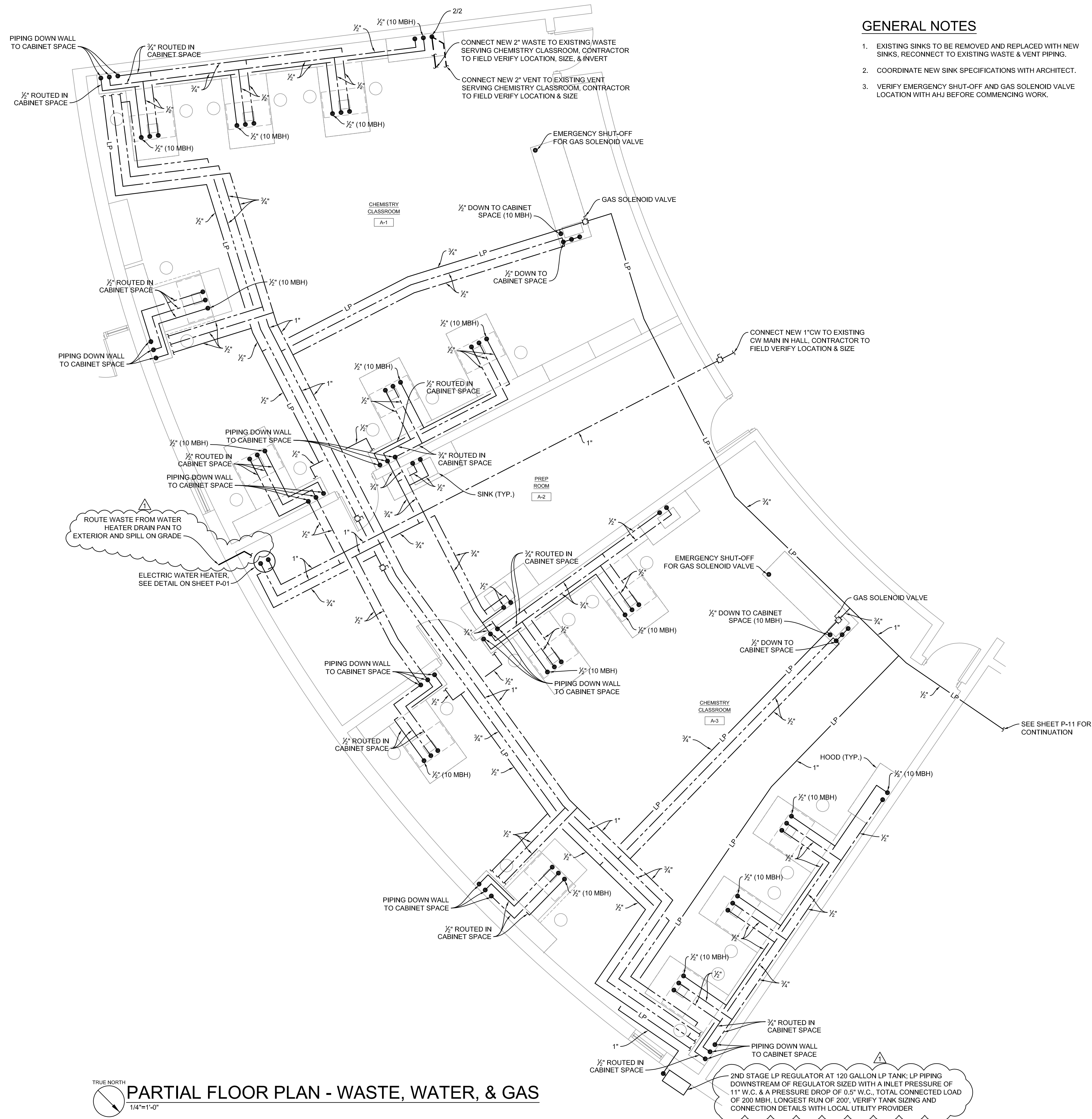
issued	01 MAY 2023
checked	SDZ
drawn	ASC
project no.	202000

SCHEDULES & DETAILS

P-01



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**GENERAL NOTES**

- EXISTING SINKS TO BE REMOVED AND REPLACED WITH NEW SINKS, RECONNECT TO EXISTING WASTE & VENT PIPING.
- COORDINATE NEW SINK SPECIFICATIONS WITH ARCHITECT.
- VERIFY EMERGENCY SHUT-OFF AND GAS SOLENOID VALVE LOCATION WITH AHJ BEFORE COMMENCING WORK.



**PARTIAL FLOOR PLAN - WASTE, WATER, & GAS**

1/4"=1'-0"

2ND STAGE LP REGULATOR AT 120 GALLON LP TANK; LP PIPING DOWNSTREAM OF REGULATOR SIZED WITH AN INLET PRESSURE OF 11" W.C. & A PRESSURE DROP OF 0.5" W.C., TOTAL CONNECTED LOAD OF 200 MBH, LONGEST RUN OF 200'. VERIFY TANK SIZING AND CONNECTION DETAILS WITH LOCAL UTILITY PROVIDER

**BCE**  
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Science Room Renovations for:

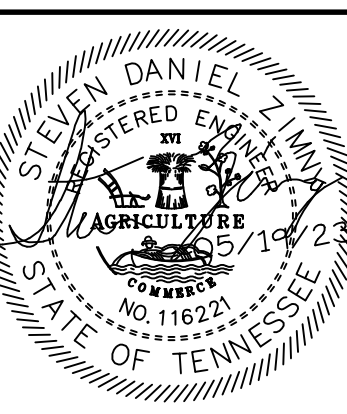
**SULLIVAN EAST  
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Blountville, Tennessee

**Cain  
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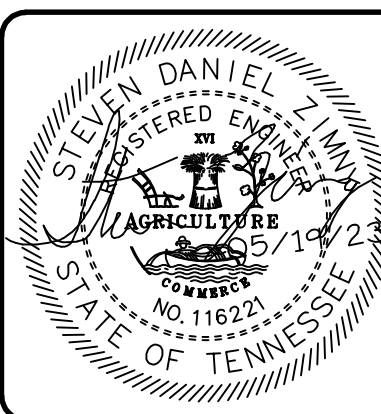


issued	01 MAY 2023
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project no.	202000

PARTIAL FLOOR PLAN - WASTE, WATER, & GAS

**P-10**

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PARTIAL FLOOR PLAN - WASTE, WATER, & GAS

**P-11**

**GENERAL NOTES**

- EXISTING SINKS TO BE REMOVED AND REPLACED WITH NEW SINKS, RECONNECT TO EXISTING WASTE & VENT PIPING.
- COORDINATE NEW SINK SPECIFICATIONS WITH ARCHITECT.
- VERIFY EMERGENCY SHUT-OFF AND GAS SOLENOID VALVE LOCATION WITH AHJ BEFORE COMMENCING WORK.

