DOCUMENT 00 90 00 ADDENDUM

ADDENDUM NO. [3] Date: January 24, 2020

RE: SCHOOL DISTRICT OF HOLMEN

VIKING ELEMENTARY SECURE ENTRY

500 EAST WALL ST.

HOLMEN, WISCONSIN 54636 HSR PROJECT NO. 19022

FROM: HSR Associates, Inc

100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated January 2020. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [1] page and [2] 30 x 42 drawings.

CHANGES TO DRAWINGS

- 1. Sheet P000 FLOOR PLANS NOTES AND SCHEDULES 30 x 42 attached hereto
 - a. Revisions clouded on Drawings.
- 2. Sheet P101 PLUMBING FLOOR PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawings

END OF DOCUMENT 00 90 00

		MANUFACTURER			PLUMBING FIXTURE SCHEDULE													
FIXTURE SYMBOL			MODEL	MATERIAL DESCRIPTION	TRIM				FLOW FIXTURE		FLUSH FIXTURE		PIPE CONNECTIONS					
					MANUFACTURER	MODEL NO.	FINISH	TYPE		MAX. MIXED WATER TEMP.	VOLUME PER FLUSH	R VOLUME	SANITARY ROUGH-IN PIPE DIAMETER	VENT PIPE DIAMETER	COLD WATER ROUGH-IN PIPE DIAMETER	HOT WATER ROUGH-IN PIPE DIAMETER		
									FLOW									
HYD-	EXTERIOR WALL HYDRANT	WOODFORD	67	STAINLESS STEEL			CHROME	MANUAL	2.5 GPM						3/4"		NON-FREEZE TYPE WALL HYDRANT, WITH DOUI MAKE ARRANGEMENTS WITH THE GENERAL CO THE CHASE WITH 2" STYROFOAM INSULATION O	
L-1	LAVATORY - WALL HUNG - ADA	KOHLER	K-2861	ENAMELED COATED CAST IRON	ZURN	Z86500-XL-3M	CHROME	MANUAL	0.5 GPM	105 °F			1 1/2"	1 1/2"	1/2"	1/2"	WALL HUNG LAVATORY WITH BACKSPLASH, FL WATER AND WASTE WITH INSULATION KIT. MOI	
S-1	SINK - SINGLE	ELKAY	LRAD2219-55-3	STAINLESS STEEL	DELTA	1903-DST	STAINLESS STEEL	MANUAL	0.5 GPM	105 °F			1 1/2"	1 1/2"	1/2"	1/2"	SINGLE COMPARTMENT, ADA COMPLIANT, SELF AND WASTE TO MEET ADA REQUIREMENTS.	
SH-1	SHOWER STALL				SYMMONS	9605-PLR	CHROME	MANUAL	2.5 GPM	105 °F			2"	1 1/2"	1/2"	1/2"	THE INDIVIDUAL SHOWER STALL IS TILE AND SF THERMOSTATIC/PRESSURE BALANCING COMBI ADA ROLL IN REQUIREMENTS ICC A117.1	
WC-1	WATER CLOSET - FLOOR MOUNT - FLUSH VALVE	KOHLER	K-96057	WHITE VITREOUS CHINA	SLOAN	8111-1.28	CHROME	SENSOR			1.28 gal	1.28 gal	4"	2"	1"		ELONGATED FLOOR MOUNTED WATER CLOSET	

NON-FREEZE TYPE WALL HYDRANT, WITH DOUBLE CHECK BACKFLOW PREVENTER, VALVE ON THE INSIDE OF THE WALL, SPOUT WITH BACKFLOW PREVENTER, AND LOOSE KEY SOCKET ON THE OUTSIDE OF THE WALL. MAKE ARRANGEMENTS WITH THE GENERAL CONTRACTOR TO PROVIDE THE NECESSARY RECESS IN THE WALL. WHERE A RISER TO A WALL HYDRANT OCCURS IN AN OUTSIDE WALL THE CONTRACTOR SHALL INSULATE THE CHASE WITH 2" STYROFOAM INSULATION ON ALL SIDES OF THE CHASE, EXCEPT THE INSIDE WALL OF THE CHASE. PROVIDE SHUTOFF VALVE IN ACCESSIBLE LOCATION. WALL HUNG LAVATORY WITH BACKSPLASH, FLOOR MOUNTED CONCEALED ARM SUPPORT, FAUCET HOLES ON 4" CENTERS. DECK-MOUNTED FAUCET, GRID DRAIN, LOOSE KEY ANGLE STOPS AND SUPPLIES. INSULATE WATER AND WASTE WITH INSULATION KIT. MOUNT AT ADA COMPLIANT HEIGHT. INSULATE WATER AND WASTE TO MEET ADA REQUIREMENTS USING ADA INSULATION KIT. THERMOSTATIC MIXING VALVE

SINGLE COMPARTMENT, ADA COMPLIANT, SELF-RIMMING, 18 GAUGE. SINGLE LEVER SWIVEL FAUCET. ONE ELKAY MODEL NO. LK35 BASKET STRAINER, P-TRAP, TAILPIECES, SUPPLIES AND STOPS. INSULATE WATER

THE INDIVIDUAL SHOWER STALL IS TILE AND SPECIFIED IN ANOTHER DIVISION. PROVIDE A SHOWER DRAIN AS SPECIFIED IN "FLOOR DRAIN CLEANOUT SPECS." SHOWER SYSTEM WITH TYPE "T/P" THERMOSTATIC/PRESSURE BALANCING COMBINATION MIXING VALVE WITH ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. PROVIDE MANUFACTURER'S FLOW RATE RESTRICTOR ON SHOWERHEAD. INSTALL PER ADA ROLL IN REQUIREMENTS ICC A117.1 ELONGATED FLOOR MOUNTED WATER CLOSET, 1-1/2" TOP SPUD, WITH CHURCH 295CT ELONGATED OPEN FRONT SEAT. SOLAR POWERED SENSOR ACTIVATED FLUSHOMETER. INSTALL AT ADA COMPLIANT HEIGHT.

SPECIFICATIONS

MATERIAL SPECIFICATIONS:

CODE: COMPLY WITH ALL LOCAL AND STATE BUILDING CODES. SECURE PERMITS FROM PROPER OFFICES AND PAY FEES. FURNISH OWNER WITH ONE COPY OF ALL PERMITS.

AS-BUILT DRAWINGS: SUBMIT COPY TO OWNER AT COMPLETION OF PROJECT.

SANITARY DRAIN, WASTE AND VENT PIPING (BELOW FLOOR): SCHEDULE 40 PVC DWV PIPE AND FITTINGS.

SANITARY DRAIN, WASTE AND VENT PIPING (ABOVE FLOOR): HUBLESS CAST IRON SOIL PIPE AND FITTINGS, CISPI 301; WITH NO-HUB

- TYPE L COPPER WATER TUBE. HARD TEMPER. ASTM B88: WITH CAST COPPER PRESSURE FITTINGS. ANSI B16.18: WROUGHT COPPER PRESSURE FITTINGS, ANSI B16.22; LEAD FREE (<.2%) SOLDER, ASTM B32; FLUX, ASTM B813 OR .. A. MECHANICALLY FORMED TEE CONNECTIONS AS CREATED BY T-DRILL. JOINTS SHALL BE BRAZED USING SIL-FOS. ALL JOINTS CREATED IN THIS MANNER SHALL BE INSTALLED (BRAZED) IN COMPLIANCE WITH CODE AND THE MANUFACTURER'S RECOMMENDATIONS. SOFT SOLDERED JOINTS SHALL NOT BE PERMITTED. THE BRANCH TUBE SHALL BE NOTCHED AND CONTAIN A DOUBLE DIMPLE. THE FIRST TO INSURE PROPER PENETRATION INTO THE MAIN LINE. THE SECOND DIMPLE WILL SERVE AS A VISUAL INSPECTION POINT.
- . COPPER TUBE PRESS WATER FITTINGS AND COUPLINGS AS PROVIDED BY VIEGA PROPRESS OR NIBCO PRESSYSTEM. . GROOVED FITTINGS AND COUPLINGS AS PROVIDED BY VICTUALIC OR ANVIL GRUVLOK. USE DIELECTRIC UNIONS OR BRASS CONVERTOR FITTINGS TO CONNECT COPPER TUBING TO STEEL TANKS, HEATERS, OR

OMESTIC WATER PIPING (ABOVE FLOOR): TYPE L COPPER WATER TUBE, HARD TEMPER, ASTM B88; WITH CAST COPPER PRESSURE TTINGS, ANSI B16.18; WROUGHT COPPER PRESSURE FITTINGS, ANSI B16.22; LEAD FREE (<.2%) SOLDER, ASTM B32; FLUX, ASTM B813. DOMESTIC WATER PIPING (BELOW FLOOR): TYPE K COPPER WATER TUBE, SOFT TEMPER, ASTM B88; WITH WROUGHT COPPER

RESSURE FITTINGS, ANSI B16.22; LEAD FREE (<.2%) SOLDER, ASTM B32; FLUX, ASTM B813. PRESS SYSTEM VALVES (WATER): NIBCO, APOLLO. BALL VALVES - 2" AND SMALLER, NIBCO #PF-585-70 (MALE END) OR PS-585-70 (FEMALE END), FULL PORT TWO PIECE (1/2" - 2" SIZES), PTFE STEM PACKING, GLAND NUT, BRONZE BODY (LESS THAN 15% ZINC), CHROME PLATED BALL, REINFORCED TEFLON SEATS (RTFE), BLOW-OUT PROOF STEM, ADJUSTABLE PACKING GLAND, 600 PSI WOG, 250°F MAXIMUM OPERATING TEMPERATURE.

CONTRACTOR SHALL INSTALL BRONZE BALL VALVES AS SPECIFIED AND WHERE SHOWN ON DRAWINGS. IF BRASS BALL VALVES ARE SUBSTITUTED AND INSTALLED, THE CONTRACTOR WILL BE REQUIRED TO REPLACE EACH WITH AS SPECIFIED OR TO PROVIDE A CREDIT OF \$150 FOR EACH VALVE SUBSTITUTION. A/E WILL DISCUSS WITH THE OWNER AND IF ACCEPTABLE WILL PROCESS A BALL VALVES (WATER): APOLLO, CRANE, HAMMOND, JOMAR, KITZ, MILWAUKEE. NIBCO. VIEGA PROPRESS. WATTS.

ANDARD PORT TWO-PIECE (1/2" - 4" SIZES), APOLLO #70LF-100 SERIES, THREADED ENDS OR APOLLO #70LF-200 SERIES, SOLDER ENDS, RPTFE STEM PACKING, GLAND NUT, LEAD FREE BRONZE BODY (LESS THAN 15% ZINC), CHROMIUM PLATED LEAD FREE BRASS BALL, LEAD FREE BRASS STEM, REINFORCED TEFLON SEATS (RPTFE), 600 PSI CWP. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL NOT CONTAIN MORE THAN 0.25% LEAD CONTENT PER SDWA 1417(A)(1)(A) - 2011. NSF/ANSI STANDARD 372 "LEAD FREE" ANSI 3RD PARTY CERTIFIED. MAXIMUM TEMPERATURE RATING SHALL BE 270°F. CONTRACTOR SHALL INSTALL BRONZE BALL VALVES AS SPECIFIED AND WHERE SHOWN ON DRAWINGS. IF BRASS BALL VALVES ARE SUBSTITUTED AND INSTALLED, THE CONTRACTOR WILL BE REQUIRED TO REPLACE EACH WITH AS SPECIFIED OR TO PROVIDE A CREDIT OF \$150 FOR EACH VALVE SUBSTITUTION. A/E WILL DISCUSS WITH THE OWNER AND IF ACCEPTABLE WILL PROCESS A CHANGE ORDER.

STRAINER (WATER): WATTS, CONBRACO, CRANE, MUELLER STEAM SPECIALTY (MUESSCO), NIBCO, ZURN/WILKINS, VATTS NO. 777SI OR S777SI BRONZE "Y" TYPE STRAINER, THREADED OR SOLDER CONNECTIONS, BRONZE BODY, #20 MESH STAINLESS STEEL SCREEN, TAPPED BRASS RETAINER CAP AND CLOSURE PLUG, 300 P.S.I. W.P. AT 210°F, 3/8" - 3" SIZES.

HWR BALANCING VALVE: VICTAULIC, NIBCO, GRUVLOK, MACON. VICTAULIC STAS/STAD SERIES 786/787 BALANCING VALVE WITH PROVISIONS FOR CONNECTING A PORTABLE DIFFERENTIAL PRESSURE METER, PRESSURE/TEMPERATURE PROBES, Y-PATTERN STYLE, DIGITAL HAND WHEEL WITH FOUR 360° ADJUSTMENT TURNS WITH HIDDEN MEMORY FEATURE, 1/2" - 2" SIZE, 300 P.S.I. CAPABLE OF BEING INSTALLED IN ANY DIRECTION OR POSITION. PIPE HANGERS: FEE AND MASON, B-LINE, GRINNELL, MICHICAN, UNI-STRUT.

CHECK VALVES: 3" AND SMALLER, MILWAUKEE #509/1590, BRONZE BODY AND DISC, SWING, 200# WOG.

PIPE INSULATION: INSULATE EXISTING EXPOSED DOMESTIC HOT WATER SUPPLY ABOVE LAY-IN CEILING AND RELATED BRANCH PIPING. INSULATE EXISTING EXPOSED DOMESTIC HOT WATER SUPPLY AND RELATED BRANCHES IN BASEMENT AND STAIRWELL. (INSULATE ALL HOT WATER AND HOT WATER RETURN PIPING AS REQUIRED FOR INSTALLATION OF NEW GAS WATER HEATER - FIELD VERIFY) MANVILLE, ARMACELL, KNAUF, MANSON AND OWENS-CORNING. MANVILLE MICRO-LOK FIBERGLASS INSULATION WITH FACTORY APPLIED "AP-T PLUS" VAPOR BARRIER JACKET WITH PRESSURE SENSITIVE TAPE LAP SEALING SYSTEM WITH MATCHING BUTT STRIPS. MANVILLE "ZESTON", KNAUF "PROTO FITTING COVERS", FOSTER "SPEEDLINE 25/50 SMOKE-SAFE" OR UNIVERSAL PREMOLDED ONE PIECE PVC INSULATED FITTING COVERS. INSTALLATION TO CONFORM WITH MANUFACTURER'S RECOMMENDATIONS. USE PVC Z-TAPE ON ALL JOINTS; AND STATE FLAME SPREAD AND SMOKE DEVELOPED RATINGS ARE COMPLIED WITH. RIGID FIBERGLASS INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT., AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR BARRIER JACKET. 1" THICKNESS (HOT WATER), 1/2" THICKNESS (COLD WATER).

PIPE INSULATION (ABOVE FLOOR - DOMESTIC HOT & COLD WATER): PROVIDE COMPOSITE PIPING INSULATION (INSULATION, JACKETS, OVERINGS, SEALERS, MASTICS, AND ADHESIVES) WITH RATINGS NOT EXCEEDING FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50 (TEST METHOD ASTM E-84). INSULATE PIPING LOCATED ABOVE FLOOR EXCEPT PIPING IN WALLS. RIGID FIBERGLASS INSULÀTION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT., AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR BARRIER JACKET. 1/2"

<u>PIPE INSULATION (BELOW FLOOR - DOMESTIC HOT WATER)</u>: ARMSTRONG "AP ARMAFLEX" ELASTOMERIC THERMAL INSULATION; ALL JOINTS AND SEAMS SEALED WITH ARMSTRONG 520 ADHESIVE. FITTINGS SHALL BE INSULATED WITH FLEXIBLE TUBING OR SHEET INSULATION MITERED AND FORMED, ALL JOINTS SEALED WITH ARMSTRONG 520 ADHESIVE. 1/2" THICKNESS.

PIPE INSULATION: PROVIDE COMPOSITE PIPING INSULATION (INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES) WITH RATINGS NOT EXCEEDING FLAME SPREAD OF 25 AND A SMOKE DEVELOPED OF 50 (TEST METHOD ASTM E-84). COMPLY WITH ALL CODES REGARDING THE USE OF FOAM INSULATION. INSULATE PIPING LOCATED IN INTERIOR SPACES: DOMESTIC COLD WATER PIPING & RAINWATER PIPING. RIGID FIBERGLASS INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT. AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR BARRIER JACKET.

SERVICE INSULATION TYPE PIPE SIZE INSULATION THICKNESS 1. RAINWATER RIGID FIBERGLASS 6" AND SMALLER 2. HOT WATER RIGID FIBERGLASS 1" AND SMALLER 3. COLD WATER RIGID FIBERGLASS 2" AND SMALLER

GAS REGULATOR (NATURAL GAS): FISHER. MAXITROL, PIETRO FIORENTINI GOVERNOR. ISHER TYPE HSR DIRECT-OPERATED, SPRING-LOADED REGULATOR WITH ECONOMICAL PRESSURE REDUCING CONTROL, NATURAL GAS, INTERNAL RELIEF ACROSS THE DIAPHRAGM TO HELP MINIMIZE OVERPRESSURE. ANY OUTLET PRESSURE ABOVE THE START-TO-DISCHARGE POINT OF THE NONADJUSTABLE RELIEF VALVE SPRING MOVES THE DIAPHRAGM OFF THE RELIEF VALVE SEAT. ALLOWING EXCESS PRESSURE TO BLEED OUT THROUGH THE SCREENED SPRING CASE VENT, IRON BODY, SCREWED, UNION RING

PERMITTING MAINTENANCE OR INSPECTION OF PARTS WITHOUT REMOVING BODY FROM PIPING. 360° ADJUSTABILITY, 125# MAXIMUM INLET PRESSURE FOR 1/8" ORIFICE, MAXIMUM OPERATING OUTLET PRESSURE OF 3 PSI ABOVE OUTLET PRESSURE SETTING TO AVOID INTERNAL PART DAMAGE, ORIFICE DIAMETER AS REQUIRED, STANDARD-BOOST STEM GUIDE, INTERNAL RELIEF START TO DISCHARGE POINT WITH STANDARD RELIEF VALVE SPRING OF 7 TO 11 INCHES WC ABOVE OUTLET PRESSURE SETTING, -20°F TO 160° F TEMPERATURE LIMITS, OUTLET PRESSURE SETTING ADJUSTING SCREW, 3/4" NPT SPRING CASE VENT CONNECTION WITH REMOVABLE SCREEN, REDUCED PRESSURE RANGE OF 6" WC TO 2.2 PSIG. MEETS ANSI B109.4 / CGA 6.18. (289 NOT REQUIRED). CAPACITY OF: 3/4" SIZE - 1620 SCFH (20 PSI TO 7"WC).

NATURAL GAS PIPING: SCHEDULE 40 BLACK STEEL PIPE, SEAMLESS, CONTINUOUS WELDS, ASTM A-53, WITH 150 PSI MALLEABLE IRON

NATURAL GAS PIPING (OVER 5 PSI): SCHEDULE 40 BLACK STEEL PIPE WITH 150 PSI STEEL WELD FITTINGS.

TRAINER (NATURAL GAS): WATTS, CONBRACO, CRANE, MUELLER STEAM SPECIALTY (MUESSCO), ZURN/WILKINS. WATTS NO. 777SI BRONZE "Y" TYPE STRAINER. THREADED CONNECTIONS, BRONZE BODY, 60 MESH STAINLESS STEEL SCREEN. TAPPED BRASS RETAINER CAP AND CLOSURE PLUG, 300 P.S.I. W.P. AT 210°F, 3/8" - 3" SIZES.

BALL VALVES (NATURAL GAS): APOLLO, BRASSCRAFT, HAMMOND, JOMAR, MILWAUKEE, NIBCO, WATTS. NO. 80-100 SERIES. SCREWED CONNECTIONS, ADJUSTABLE GLAND PACKING, BRONZE WITH CHROME PLATED BALL AND RTFE STEM PACKING AND SEATS, BLOW-OUT-PROOF STEM, 600 PSI WOG, 250 PSI LP GAS, RATED FOR VACUUM SERVICE, UL LISTED,

INSTALL B-LINE ARMAFIX — B2000 SERIES B2000 SERIES B2400 SERIES B4000 SERIES INSULATED PIPE SUPPORT \ PIPE CLAMP PIPE CLAMP PIPE CLAMP PIPE CLAMP CLAMP INSERTS WITH (3/8"-8") (3/8"-8") (1/2"-8") (1/2"-4") PAINTED ALUMINUM JACKET & NON-SKID PIPE STRAPS. (AVAILABLE IN -MAPLE CLAMP 1/2", 3/4", & 1" INSULATION (PARAFFIN THICKNESSES) **IMPREGNATED**) HORIZONTAL OR → VERTICAL UNISTRUT PIPE SUPPORT INTEGRAL UR/PIP SUPPORTS-INSULATION COLD WATER -INSULATION-B3172 PROTECTION ADJUSTABLE ADJUSTABLE SHIELD **B3100 SERIES CLEVIS HANGER** SWIVEL RING BAND (1/2"-8")

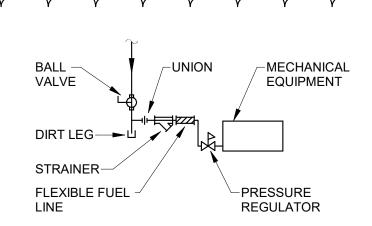
(1/2"-30") - STANDARD TYPE.

(1/2"-4") - LIGHT DUTY TYPE.

B3104 SERIES CLEVIS HANGER

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PIPE SUPPORT DETAIL



GAS PIPING DETAIL

FLOOR DRAIN CLEANOUT SPECS:

- SIOUX CHIEF, J.R. SMITH, ZURN, JOSAM, WADE, WATTS. A. FD-1, SIOUX CHIEF NO. 842-3PNQ SQUARE CAST NICKEL/BRASS STRAINER AND RING, PVC TOP HOUSING WITH THREADED BRASS INSERTS, ADJUSTABLE, PVC ADAPTER, OVERALL DIMENSION OF SQUARE RING - 5-11/16", ROUND STRAINER, FEMALE PVC GLUE JOINT,
- B. FD-2, SIOUX CHIEF NO. 842-3PNR ROUND CAST NICKEL/BRASS STRAINER AND RING, PVC TOP HOUSING WITH THREADED BRASS INSERTS, ADJUSTABLE, PVC ADAPTER, OVERALL RING DIAMETER - 5
- ½", FEMALE PVC GLUE JOINT, 3" PIPE SIZE). C. FD-3, J.R. SMITH FIG. 2010C-A OR 2005Y-A FOR EITHER CAULK OR NO-HUB CONNECTIONS (3" SIZE), CAST IRON BODY AND FLASHING/CLAMPING COLLAR WITH PROTECTOR CAP, ROUND NICKEL BRONZE STRAINER (6") AND J.R. SMITH FIG. 3580 ROUGH BRASS ROUND FUNNEL (4" DIA. & 4 1/4" HIGH) TO BE ATTACHED TO GRATE. PROVIDE PLASTIC SAFING MEMBRANE EXTENDING 12" FROM THE EDGE OF THE FLOOR DRAIN AND BE PROPERLY DRAINED. FLASH AND CLAMP WATERPROOF MEMBRANE INTO COLLAR.
- FLOOR DRAINS THAT ARE LOCATED IN CERTAIN AREAS THAT CANNOT MAINTAIN THE TRAP SEAL SHALL BE PROVIDED WITH A DEEP SEAL TRAP AND A SUFFICIENT QUANTITY OF VEGETABLE OIL OR OTHER ACCEPTABLE PRODUCT TO MINIMIZE EVAPORATION.

SIOUX CHIEF, J.R. SMITH, JOSAM, WADE, WATTS, ZURN.

- IN CONCRETE FLOORS: A. J.R. SMITH FIG. 4023, 4033, OR 4028 WITH SPIGOT, SPEEDI-SET, OR CAULK OUTLET, CAST IRON ADJUSTABLE CLEANOUT WITH ROUND
- SCORIATED N.B. COVER AND BRONZE PLUG, (2", 3", 4", 6" SIZES), OR B. SIOUX CHIEF NO. 850-2T. 850-3T. 850-4T ADJUSTABLE ACCESS COVER WITH ROUND TENZ ALLOY SCORIATED COVER AND NO. 878 SERIES
- POLYPROPYLENE SLOTTED FLUSH PLUG (1 ½"-6" SIZE). C. SIOUX CHIEF NO. 852-4PNQ/852-3PNQ ADJUSTABLE ACCESS COVER WITH SQUARE NICKET-BRONZE SCORIATED COVER AND NO. 878-60
- POLYPROPYLENE PLUG. IN RESILIENT OR CERAMIC TILE FLOOR:
- A. J.R. SMITH FIG. 4043, 4053, OR 4048 WITH SPIGOT, SPEEDI-SET OR CAULK OUTLET, CAST IRON ADJUSTABLE CLEANOUT WITH SQUARE SCORIATED N.B. COVER AND BRONZE PLUG, OR B. SIOUX CHIEF NO. 850-3T ADJUSTABLE ACCESS COVER WITH ROUND TENZ ALLOY SCORIATED COVER AND NO. 878-60 POLYPROPYLENE
- SLOTTED FLUSH PLUG. IN WALLS: INSTALL A THREADED BRONZE RAISED HEAD PLUG AND A J.R. SMITH FIG. 4710 OR ZURN MODEL Z-1469 ROUND STAINLESS STEEL CLEANOUT ACCESS COVER WITH SECURING SCREW.

PLUMBING AND PIPING SYMBOLS DOMESTIC COLD WATER DOMESTIC HOT WATER ______HW_____ SANITARY SEWER

ABBREVIATIONS:

FROM FLOOR ABOVE FROM FLOOR BELOW TO FLOOR ABOVE TO FLOOR BELOW

WORK WITH THE OWNER

GENERAL PLUMBING NOTES:

BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED. ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED. PORTIONS OF THE BUILDING WILL BE CONTINUOUSLY OCCUPIED DURING THE CONSTRUCTION PERIOD. AVOID INTERFERENCE WITH

SANITARY VENT

THIS PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND IS NOT INTENDED TO BE ALL-INCLUSIVE. VISIT THE BUILDING SITE AND BECOME THOROUGHLY FAMILIAR WITH

BUILDING FUNCTION. COORDINATE TIMING OF CONSTRUCTION

- ALL EXISTING CONDITIONS AFFECTING THE WORK. VERIFY ALL MEASUREMENTS, PIPE SIZES, PIPE LOCATIONS, ELEVATIONS, ETC. AT SITE.
- REVIEW, COORDINATE, AND SCHEDULE INSTALLATION OF WORK WITH OTHER TRADES. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY OWNER. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE
- DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR THE WORK OF THE OTHER TRADES. HOWEVER. ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE OWNER'S REPRESENTATIVE.
-). REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL. PLUMBING FIXTURES. STRUCTURAL DIMENSIONS AND LAYOUT I. IT IS THE INTENT OF THESE DRAWINGS THAT EACH AFFECTED
- SYSTEM BE COMPLETE, WORKING, TESTED, AND OPERATIONAL. 2. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID
- OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL DECISION. 3. INCLUDE ALL PLUMBING RELATED CUTTING, PATCHING AND/OR REMOVAL AND REPLACEMENT OF EXISTING WALLS, FLOORS &
- CEILINGS UNLESS OTHERWISE INDICATED. 4. NO JOINTS SHALL BE INSTALLED IN UNDERFLOOR WATER PIPING. 15. ALL WATER PIPING SHALL BE SO INSTALLED TO FACILITATE
- COMPLETE DRAINAGE. 16. ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS
- DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40(7). FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS.
- 8. BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES, CONFORMING TO SPS 382.41(3). 9. EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(c)
- 20. TERMINATE WATER AND SANITARY LATERAL 5'-0" BEYOND EXTERIOR
- FACE OF FOUNDATION WALL. CONTINUATION SHALL BE UNDER A SEPARATE CONTRACT. I. UNLESS NOTED OTHERWISE ALL WASTE AND DRAIN PIPING 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND
- WASTE AND DRAIN, PIPING 2" AND SMALLER AT 1/4" PER FOOT. 2. CONNECT VENT PIPING ABOVE THE CENTERLINE OF HORIZONTAL DRAIN PIPING IN CONFORMANCE TO SPS 382.31(15)(b)1.
- 23. FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(15)
- 24. THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL CONFORM TO SPS 384.40(14), WHEN APPLICABLE.
- 25. WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LONG SWEEP FITTINGS. 26. CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35.
- 27. ALL WATER CLOSETS SHALL BE WATER CONSERVING TYPE, USING A MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS
- 28. ALL SINK FAUCETS SHALL USE A MAXIMUM OF 2.2 GPM, CONFORMING TO SPS 384.20(3).
- 29. ALL LINE VALVES WHICH SERVE TWO OR MORE PLUMBING FIXTURES SHALL HAVE A FLOW OPENING NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING

CONNECTING TO THE VALVE. CONFORMING TO SPS 384.30(5)(b)3.

- CUTTING. NOTCHING OR BORING OF METAL STUD WALL SYSTEM IS NOT PERMITTED UNLESS APPROVED BY THE MANUFACTURER AND THE STRUCTURAL INTEGRITY HAS NOT BEEN REDUCED TO
- UNACCEPTABLE LEVELS. PLASTIC PIPE MAY PENETRATE REQUIRED FIRE-RESISTIVE RATED FLOORS, WALLS, CEILINGS AND FIRE RATED ASSEMBLIES
- PROTECTED WITH AN APPROVED FIRE-STOP SYSTEM HAVING AN F-RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY
- SIZE OF OPENINGS SHALL NOT EXCEED 1" LARGER THAN THE O.D. OF THE PIPING PENETRATING THE ASSEMBLY. COORDINATE WITH
- DRAFT/FIRE STOPPING REQUIREMENTS. IDENTIFY PIPING LOCATED ABOVE CEILINGS PRIOR TO CEILING GRID INSTALLATION.

CORE DRILL OPENINGS IN EXISTING FLOOR/WALL, AS REQUIRED.

PLUMBING SHEET INDEX

P000 FLOOR PLANS, NOTES, SCHEDULES P100 PLUMBING UNDERFLOOR PLAN

P101 PLUMBING FLOOR PLAN

BEING PENETRATED.

P102 ISOMETRIC DIAGRAMS

Description A3 ADDENDUM 3 1/24/2020 Graphic Scale: **VARIES**

1/24/2020 12:39:15 PM

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ARCHITECTURE

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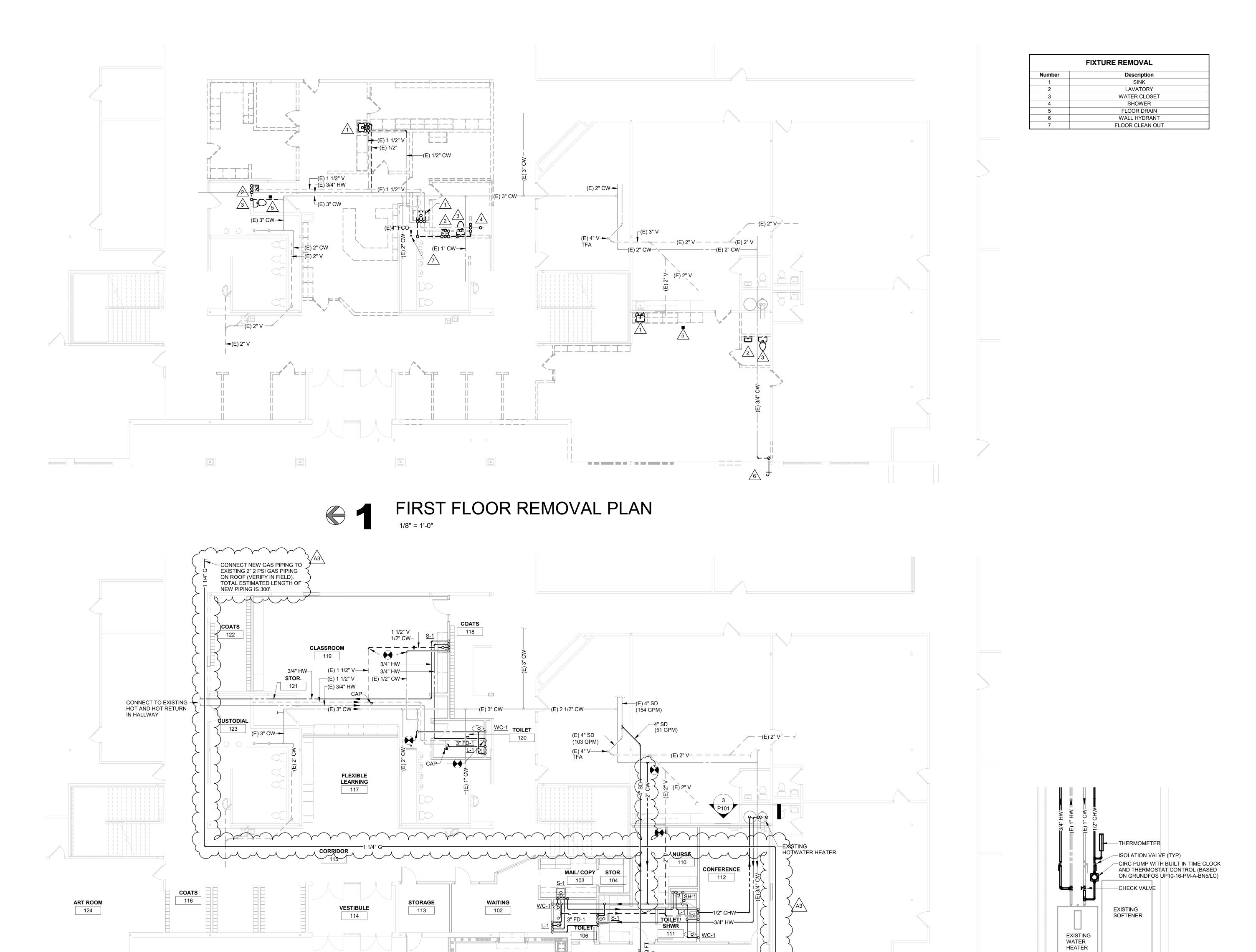
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HSR Project Number: 19022 Project Date:

JANUARY 2020 Drawn By

Key Plan:



105

OFFICE 109

3/4" CW−-

DROP 1 1/4" GAS FROM ROOF ALONG WALL. CONNECT TO NEW MECH EQUIP (98 MBH) (SEE MECH).

4" DOWNSPOUT NOZZEL 18" ABOVE GRADE (1320 SQ FT, 51 GPM)

FIRST FLOOR REMODEL PLAN

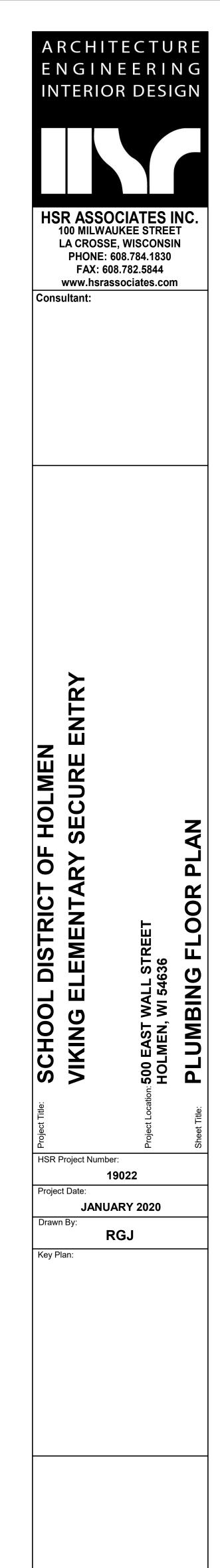
1/8" = 1'-0"

VESTIBULE

100

RECEPTION 101

107



Revisions:

No. Description Date

A3 ADDENDUM 3 1/24/2020

WATER HEATER DETAIL

VARIES

Last Update:
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Graphic Scale:

P101