





ADDENDUM NO. 3 TO CONTRACT DOCUMENTS FOR ECKSTEIN PARK RESTROOM IMPROVEMENTS

CITY OF WARREN MACOMB COUNTY, MICHIGAN IWB-W-1253

Issued: March 26, 2025 HRC Job No. 20200165.27

Intent:

This Addendum is issued prior to receipt of bids to provide for certain changes and clarifications to the Specifications and/or the Plans, as herein specified, and is hereby made a part of the Contract Documents and shall be taken into consideration in preparing the Proposal. All other conditions remain the same. The following lists the extent of this Addendum. Descriptions of the changes or clarifications are given within each heading.

DRAWINGS

Sheet G-4 (reissued):

HUBBELL, ROTH & CLARK, INC CONSULTING ENGINEERS SINCE 1915

• Drinking fountain specification added.

Prepared by

HUBBELL, ROTH & CLARK, INC.

Steven T. Sack, RA, NCARB Staff Architect

Bloomfield Hills Delhi Township Detroit Grand Rapids Howell Jackson Kalamazoo Traverse City Troy

GENERAL MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS:

READ AND BE BOUND BY THE ARCHITECTURAL SPECIFICATIONS.

THESE SPECIFICATIONS, ALL OTHER DOCUMENTS ATTACHED HERETO, ALL ADDENDA ISSUED AND THE ACCOMPANYING PLANS ARE INTENDED TO PROVIDE FOR THE COMPLETE FURNISHING AND INSTALLATION OF THE ENTIRE MECHANICAL SYSTEM.

THE WORK SHALL BE DONE IN ACCORDANCE WITH BEST PRACTICE SO AS TO CONTRIBUTE TO EFFICIENCY OF OPERATION AND MINIMUM MAINTENANCE AND SHALL BE INSTALLED WITH PROPER ACCESSIBILITY. THE MATERIALS AND EQUIPMENT. INCLUDING ALL NECESSARY ACCESSORIES. SHALL BE PUT INTO PROPER ADJUSTMENT SO THAT THE COMPONENT PARTS FUNCTION TOGETHER AS A WORKABLE SYSTEM. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS AND OPERATIONS AS INDICATED EITHER ON THE DRAWINGS OR CONTAINED HEREIN OR AS MAY BE REASONABLY IMPLIED BY EITHER TO ACCOMPLISH THE COMPLETE INSTALLATION.

PROVIDE ALL MATERIALS, EQUIPMENT, LABOR AND INCIDENTALS NECESSARY FOR COMPLETE AND OPERABLE MECHANICAL SYSTEMS. PROVIDE ALL NECESSARY TESTS AND PAY FOR ALL FEES, PERMITS, INSPECTIONS, ETC. AS REQUIRED BY LOCAL AUTHORITIES. SECURE PERMITS PRIOR TO STARTING WORK. OBTAIN ALL PERMITS, LICENSES, INSPECTIONS AND BONDS. PERFORM ALL TESTS REQUIRED. UPON COMPLETION OF THE WORK, OBTAIN AND SEND CERTIFICATES OF INSPECTION AND APPROVAL TO THE ARCHITECT/OWNER. PAY ALL FEES AND EXPENSES FOR PERMITS, LICENSES, TESTS AND INSPECTIONS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR THAT HIS WORK IS INSTALLED IN THE MOST DIRECT AND WORKMANLIKE MANNER AND THAT INTERFERENCE IS

THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE EQUIPMENT AND SYSTEMS TO BE INSTALLED AND THE GENERAL LOCATION AND ARRANGEMENT OF MECHANICAL WORK. DUE TO THE SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE THE EXACT LOCATION AND ROUTING OF MECHANICAL WORK, UNLESS REFERENCE DIMENSIONS ARE SPECIFICALLY INDICATED ON DRAWINGS. DEVIATIONS FROM CONTRACT DRAWING LAYOUT IN ORDER TO AVOID INTERFERENCES WITH OTHER TRADES, OR OTHER MECHANICAL WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT, WITH NO INCREASE IN CONTRACT PRICE. ALL COSTS FOR REMOVAL AND RELOCATION OF MECHANICAL WORK RESULTING FROM FAILURE TO COORDINATE WITH OTHER TRADES SHALL BE PAID BY THE MECHANICAL SUBCONTRACTOR.

INSTALLATION SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES. THE CONTRACTOR SHALL BE HELD TO BE FULLY INFORMED OF ALL LAWS, ORDINANCES AND CODES, AND SHALL, IN THE PERFORMANCE OF THE CONTRACT, COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL AFORESAID REGULATIONS. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS AND ANY ADDITIONAL WORK NECESSARY TO MEET CODE REQUIREMENTS, SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA COST TO THE OWNER.

WORK SHALL BE DONE IN ACCORDANCE WITH THE RULES OF LOCAL UTILITY COMPANIES.

ALL EQUIPMENT IS TO BE U.L. LISTED AND LABELED.

THE MECHANICAL TRADES (M.T.) SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO SUBMITTING A BID. NOTIFY THE ARCHITECT OF INTERFERENCES OR DISCREPANCIES.

EACH TRADE SHALL BE RESPONSIBLE FOR ITS OWN CLEAN-UP. COORDINATE WITH THE ARCHITECTURAL TRADES (A.T.).

UNLESS OTHERWISE NOTED, ALL CUTTING SHALL BE PROVIDED BY THE M.T. AND PATCHING BY THE A.T. COORDINATE ALL OPENINGS WITH THE A.T.

GUARANTEE: THE M.T. SHALL REPAIR OR REPLACE ANY PART OF THE MECHANICAL SYSTEMS INSTALLATION WHICH MAY FAIL WITHIN A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.

TESTS, ADJUSTMENTS AND ACCEPTANCE

UPON COMPLETION OF THE ERECTION OF ALL EQUIPMENT AND ALL WORK SPECIFIED HEREIN AND/OR SHOWN ON THE APPROVED SHOP DRAWINGS, OR AT SUCH TIME AS DIRECTED BY THE ARCHITECT, THIS SUBCONTRACTOR SHALL START ALL APPARATUS, MAKE NECESSARY TESTS AS DIRECTED AND AS SPECIFIED HEREIN, AND MAKE COMPLETE ADJUSTMENTS OF ALL ITEMS OF EQUIPMENT BEFORE ACCEPTANCE BY THE ARCHITECT TO WHOSE REPRESENTATIVE THIS SUBCONTRACTOR SHALL DEMONSTRATE (BY PERFORMANCE) ALL OF THE VARIOUS APPARATUS AND EQUIPMENT. START UP AND ADJUSTMENT OF EQUIPMENT SHALL INCLUDE ALL EQUIPMENT FURNISHED AND INSTALLED BY THIS CONTRACTOR.

WORK UNDER THIS SECTION OF THE SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE UNTIL THIS SUBCONTRACTOR HAS OBTAINED REQUIRED INSPECTIONS, CONDUCTED PERFORMANCE TESTS, MADE NECESSARY ADJUSTMENTS AND HAS SUBMITTED SATISFACTORY EVIDENCE OF COMPLIANCE. THE ARCHITECT SHALL MAKE SPOT CHECKS TO DETERMINE THE ACCURACY AND COMPLETENESS OF FINAL ADJUSTMENTS. SHOULD SPOT CHECKS INDICATE MORE THAN A REASONABLE DEVIATION FROM DESIGN DRAWINGS AND REQUIREMENTS, THIS SUBCONTRACTOR SHALL REPEAT TESTS AND ADJUSTMENTS TO THE SATISFACTION OF THE ARCHITECT. DURING THE TESTING PERIOD, THIS SUBCONTRACTOR SHALL MAINTAIN ON THE JOB A COMPETENT INDIVIDUAL, THOROUGHLY FAMILIAR WITH ALL PHASES OF THE HEATING AND VENTILATION SYSTEMS, FOR AS LONG AS MAY BE REQUIRED TO THOROUGHLY ADJUST ALL OF THE SYSTEMS AND TO DEMONSTRATE TO THE ARCHITECT AND/OR ENGINEER THAT THEY ARE FUNCTIONING PROPERLY.

PLUMBING SPECIFICATIONS

PLATED.

SEWERS ARE TO BE PITCHED DOWN IN DIRECTION OF FLOW AT 1/8" PER FOOT UNLESS OTHERWISE NOTED. PITCH VENT PIPING UP. WATER PIPING SHALL BE PITCHED TO FACILITATE DRAINAGE.

CONNECTIONS TO HORIZONTAL UNDERGROUND WASTE OR SOIL STACKS. CONNECT TO PLUMBING SERVICES AS INDICATED ON THE MECHANICAL

PROVIDE MINIMUM 10 PIPE DIAMETERS DISTANCE BETWEEN FIXTURE

DRAWINGS. ALL PIPING SHALL BE CONCEALED UNLESS NOTED OR APPROVED BY THE

PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS AND RAIN

ARCHITECT. EXPOSED PIPING SERVING PLUMBING FIXTURES SHALL BE CHROME

CONDUCTORS, CHANGES IN DIRECTION GREATER THAN 45 DEGREES AND 50 FEET ON CENTER ON STRAIGHT RUNS.

PROVIDE BRANCH LINE SHUT-OFF VALVES ON DOMESTIC WATER PIPING TO EACH GROUP OF PLUMBING FIXTURES OR EQUIPMENT. PROVIDE CHROME PLATED RIGID SUPPLIES WITH LOOSE KEY STOPS AT EACH FIXTURE.

ALL HOSE END FITTINGS ARE TO BE FURNISHED WITH WATTS 84 VACUUM BREAKERS.

ALL VALVES ARE TO BE TYPES AS RECOMMENDED BY THE MANUFACTURER FOR THE INTENDED SERVICE AND SHALL BE PROPERLY RATED FOR PRESSURE AND TEMPERATURE.

TO PREVENT ELECTROLYTIC CORROSION, PROVIDE INSULATED COUPLINGS WHERE DISSIMILAR METALS ARE JOINED. COUPLINGS SHALL BE EQUAL TO LOCHINVAR "V-LINE" WITH AN INERT, NON-CONDUCTIVE, LINED-IMPREGNATED LAMINATE MATERIAL AND THREADED TO NPS STANDARDS. COUPLINGS SHALL BE SUITABLE FOR HYDROSTATIC PRESSURE UP TO 300 PSI AND 225 DEGREE F. TEMPERATURE.

PROVIDE ALL NECESSARY LABOR, MATERIALS AND EQUIPMENT TO FLUSH THE LISTED PIPING SYSTEM WITH CLEAN WATER AT A MINIMUM VELOCITY OF 6 FEET/SECOND UNTIL DIRTY WATER DOES NOT APPEAR AT THE OUTLETS. USE OPEN END BRANCHES, SETTLING BASINS, PUMPS, OR TEMPORARY FILTERS AS SUITABLE FOR THE JOB CONDITIONS AND AS THE REASONABLE DISPOSAL OF FLUSHING WATER PERMITS. THE CONTRACTOR HAS THE OPTION OF HIGH PRESSURE HYDRAULIC JET CLEANING IN LIEU OF FLUSHING.

PROTECT ALL VALVES AND DEVICES FROM DAMAGE DURING THE CLEANING OPERATION.

- A. ALL DOMESTIC WATER SYSTEMS SHALL BE PURGED OF DELETERIOUS MATTER AND DISINFECTED PRIOR TO UTILIZATION. THE METHOD TO BE FOLLOWED SHALL BE AS PRESCRIBED BY THE HEALTH AUTHORITY HAVING JURISDICTION, OR IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE IN EITHER AWWA C651 OR AWWA C652 OR AS FOLLOWS:
 - 1. FLUSH OUT SYSTEM FIRST, THEN HOLD A SOLUTION MIXTURE OF 50 PPM OF CHLORINE/ WATER FOR A 24 HOUR PERIOD OR THE SYSTEM SHALL BE FILLED WITH WATER/CHLORINE SOLUTION CONTAINING AT LEAST 200 PPM OF CHLORINE AND ALLOWED T REMAIN TO STAND FOR AT LEAST 3 HOURS. DRAIN SYSTEMS AND FLUSH WITH CLEAN WATER UNTIL THE CHLORINE IS PURGED FROM THE SYSTEM.
 - 2. CHLORINATION PROCEDURES SHALL CONFORM TO AWWA C651 OR AWWA C652. REPEAT CHLORINATION AS NECESSARY UNTIL NO CONTAMINANTS REMAIN IN THE SYSTEM.

PLUMBING MATERIALS

UNDERGROUND SEWERS AND VENTS SHALL BE STANDARD WEIGHT CAST IRON SOIL PIPE WITH COMPRESSION TYPE FITTINGS OR SCHEDULE 40 PVC.

ABOVEGROUND WASTE AND VENT PIPING SHALL BE CAST IRON WITH NO-HUB JOINTS, SCHEDULE 40 GALVANIZED STEEL, ALUMINUM WITH NO-HUB CAST IRON JOINTS OR DWV COPPER. SCHEDULE 40 PVC MAY BE USED ABOVEGROUND. WHERE CODE PERMITS. ALL PIPING IN RETURN AIR PLENUMS SHALL BE PLENUM RATED WITH MAXIMUM FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50 OR LESS.

DOMESTIC WATER PIPING 2-1/2" AND SMALLER SHALL BE TYPE "L" HARD DRAWN COPPER WITH LEAD-FREE SOLDER TYPE FITTINGS. ALL UNDERFLOOR PIPING IS TO BE TYPE "K" COPPER WITH NO JOINTS.

WATER, SEWER AND VENT PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ON CLEVIS TYPE HANGERS SPACED IN ACCORDANCE WITH ASHRAE GUIDE RECOMMENDATIONS.

WHERE PIPING PENETRATES UNDERGROUND BUILDING WALLS, THE PIPING SHALL BE RUN THROUGH A SLEEVE 2" LARGER IN DIAMETER THAN THE LINE, AND THE SPACE BETWEEN THE SLEEVE AND THE PIPE SHALL BE SEALED EXPANDING NEOPRENE EQUAL TO METRAFLEX "METRASEAL" OR "LINK-SEAL" BY THUNDERLINE.

PLUMBING SPECIALTIES

PLUMBING SPECIALTIES SHALL BE JOSAM, J.R. SMITH, WADE, MIFAB, SIOUX CHIEF OR ZURN.

CLEANOUTS: THREADED BRASS PLUGS WITH ZURN Z-1460-9 STAINLESS STEEL COVER IN WALLS AND Z-1400-2 NICKEL BRONZE SCORIATED COVER IN FLOORS.

TRAP SEALS SHALL BE PROVIDED FOR ALL FLOOR DRAINS TO PREVENT TRAP EVAPORATION. SEALS SHALL BE EQUAL TO RECTORSEAL "SURESEAL", SIZED TO MATCH THE DRAIN TRAP.

PLUMBING FIXTURES FOR PHYSICALLY HANDICAPPED USE SHALL BE MOUNTED AND PIPED PER STATE OF MICHIGAN "BARRIER FREE CODE" (ADA) REQUIREMENTS. PROVIDE ADJUSTMENT CAP WITH LOCKING FEATURE.

JOINTS BETWEEN PLUMBING FIXTURES AND WALLS OR COUNTERTOPS SHALL BE FILLED WITH WHITE PLASTIC SEAM COMPOUND EQUAL TO DE WITT "TUB AND

MECHANICAL SPECIFICATIONS

EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED OF PROPER PRESSURE CLASSIFICATION GAUGES AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. MINIMUM 2" PRESSURE RATING FOR LOW VELOCITY

RECTANGULAR DUCT JOINTS SHALL BE CONNECTED WITH DUCTMATE 25/35/45 JOINT SYSTEMS THAT UTILIZE ROLL-FORMED FLANGES, CORNER PIECES, GASKET AND CLEAT. DUCT JOINTS MAY BE INDIVIDUALLY REMOVED. SEAL ALL JOINTS WITH UL 181B-M LISTED JOINT SEALANT EQUAL TO DUCTMATE PROSEAL, HARDCAST OR AIRSEAL FOR THE APPROPRIATE PRESSURE CLASSIFICATION,

TEMPERATURE AND WEATHER-RESISTANCE.

ROUND SPIRAL DUCT FITTINGS AND ELBOWS SHALL BE JOINED USING SLIP-JOINT FITTINGS. FITTING SHALL HAVE A STOP BEAD TO LOCATE FITTING INSIDE PIPE. ALL PIPE TO PIPE CONNECTIONS REQUIRE A SLIP COUPLING THAT FITS INSIDE BOTH MATING SECTIONS. SEAL ALL JOINTS WITH UL 181B-M LISTED JOINT SEALANT EQUAL TO DUCTMATE PROSEAL, HARDCAST OR AIRSEAL FOR THE APPROPRIATE PRESSURE CLASSIFICATION, TEMPERATURE AND WEATHER-RESISTANCE.

DUCTWORK FITTINGS SHALL BE PER SMACNA RECOMMENDATIONS. RADIUS TURNS ON SUPPLY AIR DUCTS SHALL BE 1-1/2 TIMES DUCT WIDTH MINIMUM. WHERE SPACE OR CLEARANCE REQUIRES THE USE OF MITERED TURNS, PROVIDE HIGH PERFORMANCE DOUBLE THICKNESS TURNING VANES EQUAL TO AERO/DYNE "HEP" AND VOLUME DAMPERS. REFER TO DETAILS ON THE

PROVIDE FACTORY MANUFACTURED TEST HOLE UNITS IN DUCTWORK WHERE REQUIRED TO FACILITATE AIR BALANCE.

ALL DUCTWORK AND PIPING INSIDE THE BUILDING IS TO BE SUSPENDED FROM THE TOP CORD OF BAR JOIST AT PANEL POINTS ONLY OR WITH BEAM CLAMPS AT BEAM MEMBERS.

DUCT SIZES INDICATED ON THE DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

THE CONTRACTOR HAS THE OPTION OF USING EQUIVALENT SIZE ROUND DUCT (NOT FLEXIBLE DUCT) WHERE SPACE PERMITS.

NO OUTDOOR AIR INTAKES ARE TO BE LOCATED WITHIN 10 FEET OF EXHAUST FAN DISCHARGE OR PLUMBING VENTS.

M.T. SHALL FURNISH AND INSTALL ALL REQUIRED AUTOMATIC CONTROLS INCLUDING ELECTRICAL WIRING, TRANSFORMERS, ETC. FOR PROPER OPERATION OF THE HVAC SYSTEM MODIFICATIONS. WIRING SHALL BE IN ACCORDANCE WITH N.E.C. STANDARDS. POWER FOR CONTROLS IS AVAILABLE IN ONE OF THE ELECTRICAL PANELS. COORDINATE CIRCUIT AND BREAKER SIZE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

AT COMPLETION OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE PDF VERSION OF "AS-BUILT" DRAWINGS OF ALL HVAC WORK.

<u>DIFFUSERS AND REGISTERS</u>

DIFFUSERS AND REGISTERS SHALL BE MANUFACTURED BY PRICE, CARNES, TUTTLE & BAILEY, TITUS OR KRUEGER. PROVIDE DAMPERS AT EACH DIFFUSER AND REGISTER. PROVIDE BAKED OFF-WHITE ENAMEL FINISH UNLESS NOTED.

IN-LINE FANS SHALL BE PENN, COOK, ACME OR GREENHECK MODEL SQ, DIRECT DRIVEN TYPE IN-LINE CENTRIFUGAL FAN WITH GALVANIZED STEEL HOUSING, CORROSION RESISTANT FASTENERS, ALUMINUM WHEEL, VARI-GREEN EC MOTOR AND DRIVE OUT OF THE AIR STREAM, DUCT CONNECTION FLANGES, HANGER KIT WITH NEOPRENE ISOLATIONS, DISCONNECT SWITCH. REFER TO FAN SCHEDULE ON THE DRAWINGS.

AIR AND WATER BALANCING

THE AIR SYSTEMS ARE TO BE BALANCED TO WITHIN 5% OF THE QUANTITIES INDICATED ON THE DRAWINGS.

PREPARE AN AIR BALANCE REPORT COMPLETE WITH AN 8-1/2" X 11" SKETCH OF EACH SYSTEM ON FORMS SIMILAR TO AABC OR NEBB AND SCHEDULE EACH OUTLET, FAN, TERMINAL UNIT, ETC. INCLUDE SUCTION AND DISCHARGE STATIC PRESSURES AT EACH FAN. SUBMIT (6) COPIES OF THE REPORT TO THE

PREPARE A WATER BALANCE REPORT ON FORMS SIMILAR TO AABC OR NEBB AND SCHEDULE EACH NEW FINNED TUBE PIPING LOOP. SUBMIT (6) COPIES OF THE REPORT TO THE ARCHITECT.

BALANCE IS TO BE PERFORMED BY AN INDEPENDENT AND CERTIFIED SYSTEMS BALANCE CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

	TAG	ITEM	MAKE	MODEL NAME	MODEL NUMBER	PIPE CONNECTION SIZES				NOTEC/ACCECCODIEC	
						W	V	CW	HW	NOTES/ACCESSORIES	
	FD-1	FLOOR DRAIN	JR SMITH		2005Y-B05NB-U	SEE PLANS	-	-	-	A, B, G, L, Q	
	LAV-1	LAVATORY	ACORN	PENAL-WARE STAINLESS STEEL	1652LRB-ADA	1 1/2"	1 1/2"	1/2"	-	A, B, E, F, AA, CC, FF, GG	
	UR-1	URINAL	ACORN	PENAL-WARE STAINLESS STEEL	1709	2"	1 1/2"	1"	-	WALL MOUNT CONCEALED VALVE, ADA A, B, O, JJ, MM	
	WC-1	WATER CLOSET	ACORN	DURA-WARE STAINLESS STEEL	2120	4"	2"	1"	-	FLOOR/WALL MOUNT FLOOR OUTLET, EXPOSED VALVE, ADA A, B, C, J, M, DD, LL	
	HB-1	HOSE BIB	ZURN		Z1341-C12-RC	-	-	3/4"	-	w/ Z1399-VB VACUUM BREAKER	
	MS-1	MOP SINK	MUSTEE	24x24 SMG FIBERGLASS	63 CM	3"	2"	1/2"	1/2"	SERVICE FAUCET W/ WALL BRACKET & VACUUM BREAKER, MOP HANGER, HØSE KIT	
	DF-1	DRINKING FOUNTAIN	MURDOCK	BARRIER-FREE BI-LEVEL	GYV34			1/2" NPT		GREEN POWDER COAT FINISH, PUSH BUTTON OPERATION ONLY, FREEZE RESISTANT VALVES, PP	
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PLUMBING FIXTURE NOTES/ACCESSORIES

	Α	VERIFY COLOR/FINISH WITH ARCHITECT	В	PROVIDE ALL SLEEVES, TEMPLATES, ETC. AS REQUIRED FOR ROUGH-IN OF FIXTURES. COORDINATE WITH ARCHITECTURAL TRADES.	С	PROVIDE INTEGRAL CONTOURED SEAT	
	D	PROVIDE BRASSCRAFT COMMERCIAL ANGLE SUPPLY WITH RISER	E	PROVIDE ADA SUPPLY AND WASTE PIPING	F	PROVIDE BRASSCRAFT 1 1/2" CAST BRASS "P" TRAP	
	G	PROVIDE DEEP SEAL TRAP UNLESS OTHERWISE NOTED	I	FLUSH VALVE: SLOAN MODEL REGAL 9603-1.6- XL CONCEALED w/ HY-100-A ACTUATOR 1.6 GPF & 1-1/2" SPUD COUPLING; PROVIDE WALL MOUNT HARDWARE	J	FLUSH VALVE: SLOAN MODEL REGAL 111 EXPOSED MOUNT W/ 1.6 GPF & 1-1/2" BACK SPUD; PROVIDE WALL MOUNT H'WARE & VANDAL RESISTANT STOP CAP	
	K	LAVATORY FAUCET: OPTION 03-M PNEUMATICALLY OPERATED PUSHBUTTON AIR CONTROL VALVE.	L	SURE SEAL OR J.R. SMITH D2692 TRAP SEAL DEVICE	М	WASTE OUTLET SHALL BE 7-1/2" GASKETED WASTE W/ 6" MOUNTING CENTERS	
	N	PROVIDE BRASSCRAFT 1 1/4" CAST BRASS "P" TRAP	0	FLUSH VALVE: SLOAN MODEL 995 CONCEALED w/ HY-100-A ACTUATOR 0.5 GPF & 3/4" SPUD COUPLING; PROVIDE WALL SLEEVE & WALL MOUNT HARDWARE	Р	FLUSH VALVE: MANUAL OPERATION FVI, FVT THRU WALL	
	Q	VERIFY SIZE OF DRAIN IN FIELD; STRAINER SHALL BE NICKEL BRONZE W/ VANDAL PROOF SCREWS	AA	PROVIDE CHAIR CARRIER W/ FOOT SUPPORTS, MOUNT PER ADA REQUIREMENTS	СС	TEMPERING VALVE: POWERS: LFe480, ASSE 1070	
	DD	PROVIDE STAINLESS STEEL FLOOR ANCHORS	EE	BACKFLOW CHECK AND WALL BOX	FF	MODEL #: 1652lrb-1-9-H34-LW1-SW	
	GG	LAVATORY FAUCET: SLOAN ETF-600-BOX- TEE-CP-0.5GPM-MLM-IR-BT-FCT	НН	MODEL # 1695-W-3-1.6 GPF-FVBO-ADA	JJ	MODEL # 1709-W-1-0.5GPF-FVBO-SW	
LL		MODEL # 2120-T-3-1.6-HPS		WALL MOUNTING HARDWARE	00	FLUSH VALVE: SLOAN REGAL 186-1.0 EXPOSED MOUNT, 1.0 GPF, 3/4" BACK SPUD, PROVIDE WALL MOUNT HARDWARE & VANDAL RESISTANT STOP CAP.	
{	PP	GYV34 ADULT ADA COMPLIANT, PUSHBUTTON BOTTLE FILLER WITH FREEZE RESISTANT VALVES, 6 AA BATTERY PACK, LAMINAR FLOW BOTTLE FILLER, HEAVY DUTY CONSTRUCTION, SS ANTI SQUIRT AND ROTATION BUBBLER, 100 MESH INLET STRAINER, LEAD AND CYCST FILTER, ACCESS COVER					

	GKII	ALLE REGISTER AND DIFFUSER SCHEDULE								
TAG	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL NUMBER	CFM RANGE	NECK SIZE (IN)	FACE DIMENSIONS (IN)	MOUNTING	NOTES/ACCESSORIES		
E-1	EXHAUST AIR GRILLE	PRICE	530		8x8 OR 12x6 (MATCH EXISTING IF LARGER)		SURFACE	1, 2, 3		

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NOTES & ACCESSORIES

1	CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE ARCHITECTS REFLECTED CEILING PLAN. MATCH MOUNTING FRAME TO CEILING TYPE AS APPLICABLE. SURFACE MOUNTING TYPES INSTALLED IN LAY-IN CEILINGS SHALL BE CENTERED IN ONE DIMENSION FOR APPEARANCE. PROVIDE ADAPTER FRAME FOR LAY-IN TYPES INSTALLED IN HARD CEILINGS.
2	PROVIDE OFF-WHITE FINISH UNLESS OTHER WISE NOTED OR DICTATED BY THE ARCHITECT.
3	FIXED BLADE GRILLE, 3/4" BLADE SPACING, 45 DEG BLADE ANGLE, STEEL CONSTRUCTION, BLADES PARALLEL TO LONG DIMENSION.

MECHANICAL LEGEND

WM	WATER METER	AC	AIR CONDITIONING UNIT	DN	DOWN	SAN	SANITARY
Ø	DIAMETER	ACCU AIR CONDITIONING CONDENSING UNIT		EF	EXHAUST FAN	V.T.R.	VENT THRU ROOF
\bowtie	GATE VALVE	A.F.F.	ABOVE FINISHED FLOOR	EWH	ELECTRIC WATER HEATER	WC	WATER CLOSET
T	THERMOSTAT	CFM	CUBIC FEET PER MINUTE	FD	FLOOR DRAIN		DOMESTIC COLD WATER
<u> </u>	PIPE DOWN	СО	CLEANOUT	HW	HOT WATER		DOMESTIC HOT WATER
O	PIPE UP	COND	CONDENSATE	I.E.	INVERT ELEVATION	— —SAN— —	SANITARY SEWER
	PIPE TEE	CW	COLD WATER (DOMESTIC)	LAV	LAVATORY		VENT PIPING
	FLOOR DRAIN						

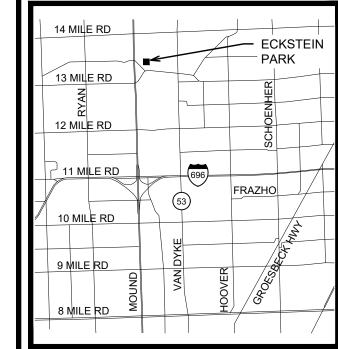




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03-22-2025 | ADDENDUM 03 $\sqrt{3}$ ISSUED FOR BID 02-13-2025 12-20-2024 | 100% OWNER REVIEW 07-16-2024 75% OWNER REVIEW ADDITIONS AND/OR REVISIONS DESIGNED STS DRAWN STS CHECKED AMM APPROVED MCM



CITY OF WARREN **ECKSTEIN PARK RESTROOM IMPROVEMENTS** ITB-W-1253

MECHANICAL SPECIFICATIONS AND SCHEDULES

HRC JOB NO.	SCALE				
20200165	AS NOTED				
DATE MARCH 2025	SHEET NO.				