s section of the sble requirements anditions of the

The work under this section of tispecifications includes all labor, requipment, including installation and points of connection to onutility lines and stub-outs for further connections to new portable build complete plumbing system, tester for use, as indicated on the Archambing Drawings and described. The work includes, but is not neaton, the following:

All labor, materials, and equipment not indicated by drawings or specifications, which are required for the proper operation of the systems, in accordance with the true intent and meaning of the Contract Documents, shall be provided and incorporated in the work by and at the expense of the Contractor.

CODES, RULES, AND SAFETY ORDERS

All work shall conform with the latest requirements of the following Codes ar orders:

Bakersfield City School District Uniform Plumbing Code. California Code of Regulations, 24. Titles 19

All other Ordinances and regulations of authorities having jurisdiction.
PERMITS, FEES, AND INSPECTIONS Obtain and pay for all necessary permit fees, Plan Check fees, and inspections required by governing authorities.

AS—BUILT DRAWINGS Keep an up—to—date, legible, accurate, dimensional, reproducible record of as—built locations of all work for submittal to and approval of the Architect.

MATERIALS, EQUIPMENT DATA, AND SHOP DRAWINGS Within 14 days after award of Contract, submit four copies of a complete list and required shop drawings of all materials and equipment proposed for installation.

All dimensions must be checked at the job by the contractor who accepts full responsibility for their occuracy under the contract. These plane & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

(2) 24'x40' MODULAR BUILDINGS AT CESAR E CHAVEZ ES.

4201 MESA WARIN DRIVE BAKERSFIELD, CA 93306

EXISTING UTILITY LINES Location and character of principal existing utilities, including of principal existing utilities, including dimensions as shown in the drawings, are for convenience only, and are believed complete and correct, but shall be subject to verification by the Contractor, as the School District assume no responsibility for their correctness.

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Sanitary Waste System: Connect to existing on—site sanitary waste system. Verify the exact location, size, and depth before starting construction.

Domestic Water System: Connect to existing on—site domestic water system. Verify the exact location, size, and water pressure before starting construction.

Provide all necessary trench excavation and backfilling for installing all underground piping. Backfilling shall conform with applicable portions of Architectural and/or Structural Sections.

ON-SITE VISIT

It shall be the Contractor's responsibility to visit the existing project site and acquaint himself with all existing conditions, as well as ascertain the extent of the work involved. By the act of submitting a Bid, the Contractor shall be deemed to have made such an examination, to have accepted such conditions, and to have made allowances therefor in preparing his figure.

Contractor shall maintain continuity of service to the existing domestic water and sanitary waste systems, except for designated intervals by the School District, during which time connections can be made.

The premises and existing building shall be in use at the time the work of the Contract is in progress. Contractor shall conduct his work so as to cause no inconvenience or danger to the personnel on the premises.

latest applicable odes and safety

STERILIZING OF WATER PIPING

The water supply and distribution be sterilized by chlorine—in—solution accordance with the American Wassociation Publication C—601—19 Ordinances. Provide additional in as required. ubmit a Certificate of Steriliza chool District. tion to the

CLOSING—IN OF UNINSPECTED WORK Contractor shall not allow or cause any of the work to be covered up until it has been inspected, tested, and approved by the Architect's representative and local inspector. Should any of his work be covered up or enclosed before such inspection and test he shall, at his own expense, uncover the work, and, after it has been inspected, tested, and approved, make all repairs with such materials as may be necessary to restore all his work and that of other trades to its original and proper condition.

ecessarily limited GUARANTEES Before the acceptance of the project, deliver to the Architect a written one—year guarantee on all workmanship, equipment, and material repair or replace any such defective items occurring during this period. Contractor shall be responsible for all damages to premises caused by leaks or breaks in piping during this period.

MATERIAL (GENERAL) All materials shall be new and in perfect condition, all materials for similar uses shall be of the same type, material, and manufacture for ease of future maintenance.

VALVES All water shut—off valves shall be gate valves, unless otherwise noted. All valves of the same type shall be of the same make and model. Valves shall be Nibco, Crane, or Milwaukee.

YARD BOXES Yard boxes shall be concrete box with steel locking traffic cover, Carson—Brooks, or equal, with a minimum clearance of 2—inches on all sides of equipment or valves, and with gas or water marked on cover of boxes. CLEANOUTS All cleanouts shall be located inside a yard box. Cleanouts shall be J.R. Smith or Zurn.

Pipe And Fittings Soil, Waste piping, underground, inside of buildings and to points five feet outside of buildings shall be service weight, coated, cast iron no-hub joint soil pipe with stainless steel couplings neoprene gaskets.

Domestic water piping, below ground, inside and to five feet outside of buildings shall be type "K", hard drawn copper tubing, ASTM B-88. Joints in copper tubing shall be silver brazed with wrought copper fittings in accordance with pipe manufacturers recommendations. soil and waste piping, underground, from five feet outside of building, shall be PVC gravity sewer sipe and fittings (SRD-35) bell and spigot compression ring-tite joint, ASTM D3034, Manville Corp. RX-11 or equal by Certainteed. ometic water piping underground outside five feet from building shall be CPVC type 1, Grade 1, chedule 40 pipe and shall meet NSF No. 14, OS-207-60 and ASTM D-1784 and ASTM D-1785 with PVC Type 1 Grade 1 Schedule 80 fittings ASTM D-2464 for threaded fittings or D-2467 for socket ement welded fittings.

All connections between 85% red brass pipe, Type "K" or Type "L" copper tubing and steel pipe shall be made with Maloney, or approved equal, dielectric unions or flanges which will prevent the flow of electrical current from one Lype of metal to another. All underground piping that is coated and wrapped shall be electrically tested prior to placing it in the ground with the holiday detector method, using a setting between 7000 and 7200 volts. Any defects in coatings shall be required, and test shall be repeated. Test shall be made in the presence of the Mechanical Inspector, and shall be made until all defects are repaired to his satisfaction.

2. Provide tracer wire for all underground plastic and covered plastic piping. Tracer wire shall be #14 copper ines and yellow for sanitary waste and vent lines. Tape securely to pipe at 20" maximum on center. Terminate with extra 18" minimum loop of wire in yard box or in yard box with shut—off valve. . Tape wrap method: First, wrap with overlapping layers of butyl molding tape to a 1/8" minimum thickness, lapping oating 1" minimum. Then, double—wrap with overlapping of polyethelene tape, lapping 3" minimum beyond butyl tape. athodic Protection: All metal underground piping, joints, fittings and valves, including cast iron sanitary soil, aste, vent piping, domestic water type "K" copper and ductile fire piping, shall have cathodic protection overing. Cathodic protection shall be of the tape—wrap method, with butyl molding tape and 10 mil. polyethelene ressure sensitive tape.

Condensate Water Lines shall be Type "M" copper, hard drawn copper tubing, ASRM B-88, and wrought solder joint fittings. Joints shall be made up with 50-50 solder intermediately corrosive flux, and complete system shall slope at 1/8—inch per foot minimum. Provide running trap at air conditioning units, as per Details. Complete system shall meet all Code requirements for Title 24.

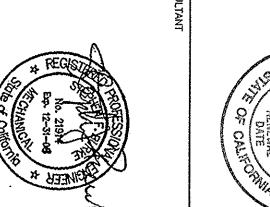
Test the water pressure. Test all other piping in applicable Codes. <u>¥:</u>

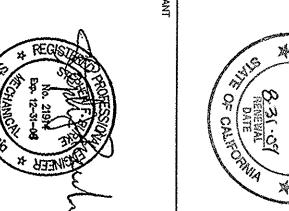
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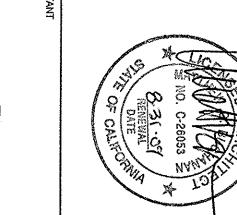
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