with Incoloy corrosion-resistant metal alloy, rated less than 75 Watts per square inch.

2.06 WATER SOFTENERS

A. Manufacturers: Culligan International Company; Sterling Water Systems, LLC.

B. Performance: Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system; Electrical Characteristics: As indicated on the Drawings.

C. Control: Brass control valve cycled to regenerate from one to twelve day period.

2.07 IN-LINE CIRCULATOR PUMPS

A. Manufacturers: Armstrong Pumps Inc; ITT Bell & Gossett; Sterling Fluid Systems; Taco, Inc..

B. Casing: Bronze, rated for 125 psig working pressure; Impeller: Bronze; Shaft: Alloy steel with integral thrust collar and two oil lubricated bronze sleeve bearings; Seal: Carbon rotating against a stationary ceramic seat; Drive: Flexible coupling.

C. Performance: Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system; Electrical Characteristics: As indicated on the Drawings; Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order, connection of equipment or start-up. Responsibility for verification of proper power supply voltage and any product returns or damage resulting from incorrect connections shall rest with this Contractor.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install plumbing equipment in accordance with manufacturer's instructions, as required by code, and complying with conditions of certification, if any.

B. Provide concrete equipment bases for all floor mounted plumbing equipment.

C. Coordinate with plumbing piping and related fuel piping, gas venting, and electrical work as applicable to achieve operating system.

D. Pumps:

1. Ensure shaft length allows sump pumps to be located minimum 24 inches below lowest invert into sump pit and minimum 6 inches clearance from bottom of sump pit.
2. Provide air cock and drain connection on horizontal pump casings.
3. Provide line sized isolating valve and strainer on suction and line sized soft seated check valve and balancing valve on discharge.
4. Decrease from line size with long radius reducing elbows or reducers. Support piping adjacent to pump such that no weight is carried on pump casings. Provide supports under elbows on pump suction and discharge line sizes 4 inches and over.
5. Ensure pumps operate at specified system fluid temperatures without vapor binding and cavitation, are non-overlooding in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.
6. Align and verify alignment of base mounted pumps prior to start-up.
7. Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order, connection of equipment or start-up. Responsibility for verification of proper power supply voltage and any product returns or damage resulting from incorrect connections shall rest with this Contractor.

B. Refer to vibration isolation requirements specified in Vibration Isolation section of this Specification.

END OF SECTION

SECTION 224000 - PLUMBING FIXTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. All plumbing fixtures as scheduled on the Drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that walls and floor finishes are prepared and ready for installation of fixtures.

B. Verify that electric power is available and of the correct characteristics.

3.02 PREPARATION

A. Rough-in fixture piping connections in accordance with minimum sizes indicated in fixture rough-in schedule for particular fixtures.

3.03 INSTALLATION

A. Install each fixture with trap, easily removable for servicing and cleaning.

B. Install each fixture using brass angle ball stop valves for hot and cold water connections as applicable. Non-metallic valves or non-ball valve type stops will not be accepted.

C. Provide chrome plated rigid or flexible supplies to fixtures with specified stops, reducers, and escutcheons.

D. Install components level and plumb.

E. Install and secure fixtures in place with wall carriers, wall supports and bolts.

F. Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

G. Solidly attach floor mounted water closets to floor with lag screws. Lead flashing is not intended hold fixture in place.

H. Install fixtures and fittings in accordance with the manufacturer's instructions and in accordance with the ICC (IPC) or UPC.

I. When fixtures require both hot water and cold water supplies, provide the hot water supply to the left of the cold water supply.

J. Install off-the-floor supports to conform to ASME A112.6.1M.

3.04 INTERFACE WITH WORK OF OTHER SECTIONS

A. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

3.05 CLEANING

A. Clean plumbing fixtures and equipment.

3.06 PROTECTION

A. Protect installed products from damage due to subsequent construction operations.

B. Repair or replace damaged products before date of Substantial Completion.

3.07 FIELD INSPECTION

A. Continue inspection during installation and testing.

B. Correct or replace all rejected equipment prior to installation.

END OF SECTION

PAUL DHANENS • ARCHITECT

ARCHITECT

PAUL DHANENS
No. C-23843
RENEWAL
STATE OF CALIFORNIA

5100 CALIFORNIA AVE., SUITE 107
BAKERSFIELD, CALIFORNIA 93309
TELEPHONE: (661) 326-8536
FACSIMILE: (661) 326-8537

CONSULTANT

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NOTICE TO CONTRACTORS

Written dimensions on these drawings shall take precedence over scaled dimensions. Contractor shall verify and be responsible for confirming all dimensions and shall notify the Architect immediately of any descrepancies or field variations discovered.

PROJECT

TENANT IMPROVEMENT FOR

FAMOUS FOR Steak 'n Shake STEAKBURGERS

1966 WEST AVE L
LANCASTER, CA

DATE	ISSUED FOR
9-24-18	BUILDING DEPT SUBMITTAL
6-26-19	

NO.	REVISIONS
1	
2	
3	
4	

PLUMBING

FILE NAME: 2366A2-0

SHEET

P-503