

**PURE ELEMENTS, INC TOTAL PROPERTY WATER TREATMENT SYSTEM:**

THE TOTAL PROPERTY WATER TREATMENT SYSTEM SPECIFIED UNDER THIS SECTION SHALL CONSIST OF A SALT-FREE TOTAL PROPERTY CONDITIONER, FULLY AUTOMATIC MULTI-MEDIA FILTER, CATALYTIC CONDITIONER, OPTIONAL HIGH EFFICIENCY ION-EXCHANGE SOFTENER, AND AN OPTIONAL CENTRALIZED REVERSE OSMOSIS PURIFICATION SYSTEM. ALL EFFORTS SHALL BE MADE TO UTILIZE COMPONENTS THAT ARE ENVIRONMENTALLY SOUND AND GREEN IN NATURE. THE COMPREHENSIVE SYSTEM, INCLUDING DESIGN, EQUIPMENT, INSTALLATION AND ONGOING MAINTENANCE, SHALL BE PROVIDED BY PURE ELEMENTS, NEWPORT BEACH, CA. A COMPANY WITH 29 YEARS OF EXPERIENCE IN PROVIDING CUSTOM-DESIGNED SYSTEMS SPECIFICALLY FOR CUSTOM HOME USE. SERVICE TECHNICIANS FROM PURE ELEMENTS, NEWPORT BEACH, CA SHALL PERFORM INSTALLATION AND SYSTEM START-UP. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS AND SYSTEM START-UP. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

THE WATER SYSTEM SHALL BE DESIGNED AND VALVED TO PROVIDE TOTAL PROPERTY WATER CONDITIONING, WHOLE-HOUSE FILTRATION, WHOLE-HOUSE CONDITIONING AND/OR SOFTENING, DRINKING WATER, AND MAKE-UP WATER TO POOL, SPA, WATER FEATURES AND LANDSCAPE IRRIGATION AT THE OWNER'S OPTION. LOCATE ALL EQUIPMENT AS SHOWN ON PLANS.

A \$1.75 PER SQUARE FOOT ALLOWANCE FOR A COMPREHENSIVE TOTAL PROPERTY WATER SYSTEM SHALL BE ALLOCATED. ALLOWANCE SUBJECT TO CHANGE BASED ON EQUIPMENT AS SELECTED BY OWNER.

**0001 TOTAL PROPERTY WATER CONDITIONING (SALT-FREE):**

THE TOTAL PROPERTY WATER CONDITIONING SYSTEM SHALL CONSIST OF A SALT-FREE CATALYTIC WATER CONDITIONER OR A SYSTEM UTILIZING CATALYTIC MEDIA, DESIGNED AND SUPPLIED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA. EITHER SYSTEM SHALL BE CUSTOM BUILT TO MEET SUPPLY AND DELIVERY PIPE SIZES AND SHALL MAINTAIN WATER PRESSURE AND VOLUME WITH A 5 % MAXIMUM VARIANCE WHEN INCOMING PRESSURE MEETS OR EXCEEDS 50 PSI. AS PART OF A COMPLETE WHOLE-HOUSE SYSTEM, CONDITIONING COMPONENT(S) SHALL BE 100% COMPATIBLE AND MATCHED WITH ALL OTHER COMPONENTS IN THE OVERALL SYSTEM. ALL WATER ON PROPERTY SHALL BE TREATED THROUGH THE TOTAL PROPERTY CONDITIONING SYSTEM.

**MECHANICAL SPECIFICATIONS:**

PLUMBING CONFIGURATION: ACCESS TO MAIN WATER SUPPLY PRIOR TO ANY TAKEOFFS SHALL BE PROVIDED, IN THE EVENT OF INSTALLATION IN THE GROUND, A LANDSCAPE VAULT AND FULL-PORT BALL VALVE OR BYPASS ASSEMBLY SHALL BE INTEGRATED INTO THE FINAL CONFIGURATION.

**0002 DOMESTIC WHOLE-HOUSE WATER FILTRATION:**

A COMMERCIAL GRADE, FULLY AUTOMATIC WHOLE-HOUSE FILTER SHALL BE DESIGNED AND SUPPLIED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA. THE UNIT SHALL CONTAIN MULTIPLE MEDIA AND BE CAPABLE OF REMOVING CHEMICALS, HEAVY METALS, COLORS, TASTES, ODORS, AND PHYSICAL IMPURITIES DOWN TO 5 MICRONS IN SIZE. BACTERIOSTATIC FEATURE TO BE BUILT-IN.

ALL CONSTANT PRESSURE PIPING FROM THE FILTER UNIT SHALL BE COPPER AND SHALL MATCH DIAMETER OF SERVICE SUPPLY LINE. INTERNAL ORIFICES SHALL REMAIN CONSTANT WITH THE INCOMING SERVICE SUPPLY LINE. INCOMING WATER VOLUME AND PRESSURE SHALL BE MAINTAINED WITH 5 % MAXIMUM VARIANCE WHEN INCOMING PRESSURE MEETS OR EXCEEDS 50 PSI.

SERVICE TECHNICIANS FROM PURE ELEMENTS, INC., NEWPORT BEACH, CA SHALL PERFORM INSTALLATION AND SYSTEM START-UP. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**MECHANICAL SPECIFICATIONS:**

PLUMBING CONFIGURATION: PLUMBER SHALL SUPPLY A COPPER LOOP IN A PREDETERMINED EQUIPMENT LOCATION TO SUPPLY BOTH HOT AND COLD DOMESTIC WATER. POOL AND WATER FEATURE(S) MAKE-UP WATER SHALL BE ON THE TREATED SIDE OF THE LOOP.

DRAINAGE: PLUMBER SHALL SUPPLY A MINIMUM 1-1/2" WASTE P-TRAP OR OTHER VENTED WASTE ELECTRICAL: ELECTRICIAN SHALL PROVIDE A 110-VOLT SINGLE PHASE 20 AMP ELECTRICAL SUPPLY.

**0003 DOMESTIC WHOLE-HOUSE WATER CONDITIONER (SALT-FREE):**

THE WHOLE-HOUSE CONDITIONING SYSTEM SHALL CONSIST OF A SALT-FREE CATALYTIC WATER CONDITIONER OR A SYSTEM UTILIZING CATALYTIC MEDIA, DESIGNED AND SUPPLIED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA. EITHER SYSTEM SHALL BE CUSTOM BUILT TO MEET SUPPLY AND DELIVERY PIPE SIZES AND SHALL MAINTAIN WATER PRESSURE AND VOLUME WITH A 5% MAXIMUM VARIANCE WHEN INCOMING PRESSURE MEETS OR EXCEEDS 50 PSI. AS PART OF A COMPLETE WHOLE-HOUSE SYSTEM, CONDITIONING COMPONENT(S) SHALL BE 100% COMPATIBLE AND MATCHED WITH ALL OTHER COMPONENTS IN THE OVERALL SYSTEM. ALL DOMESTIC HOT AND COLD WATER SHALL BE TREATED THROUGH THE WHOLE-HOUSE CONDITIONING SYSTEM.

**MECHANICAL SPECIFICATIONS**

PLUMBING CONFIGURATION: PLUMBER SHALL SUPPLY A COPPER LOOP IN A PREDETERMINED EQUIPMENT LOCATION TO SUPPLY BOTH HOT AND COLD DOMESTIC WATER. POOL AND WATER FEATURE MAKE-UP WATER SHALL BE ON THE TREATED SIDE OF THE LOOP.

**0004 DOMESTIC HOT WATER DEMAND-DRIVEN (DIR) WATER SOFTENER (OPTIONAL):**

THE (OPTIONAL) WATER SOFTENING SYSTEM SHALL CONSIST OF A DIR ION EXCHANGE SOFTENER DESIGNED SUPPLIED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA AS SELECTED BY OWNER. SYSTEM SHALL BE CUSTOM BUILT TO MEET SUPPLY AND DELIVERY PIPE SIZES AND SHALL MAINTAIN WATER PRESSURE AND VOLUME WITH A 5% MAXIMUM VARIANCE WHEN INCOMING PRESSURE MEETS OR EXCEEDS 50 PSI. AS PART OF A COMPLETE WHOLE-HOUSE SYSTEM, SOFTENING UNITS SHALL BE COMPATIBLE AND MATCHED WITH ALL OTHER COMPONENTS IN THE OVERALL SYSTEM.

SERVICE TECHNICIANS FROM PURE ELEMENTS, INC., NEWPORT BEACH, CA SHALL PERFORM INSTALLATION AND SYSTEM START-UP. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**MECHANICAL SPECIFICATIONS:**

PLUMBING CONFIGURATION: PLUMBER SHALL SUPPLY A COPPER LOOP IN A PREDETERMINED EQUIPMENT LOCATION TO SUPPLY ONLY HOT DOMESTIC WATER. DRAINAGE: PLUMBER SHALL SUPPLY A MINIMUM 1-1/2" WASTE P-TRAP OR OTHER VENTED WASTE. ELECTRICAL: ELECTRICIAN SHALL PROVIDE A 110-VOLT SINGLE PHASE 20 AMP ELECTRICAL SUPPLY. NOTE: ALL DIR ION-EXCHANGE WATER SOFTENING SYSTEMS SHALL BE COMPATIBLE FOR USE WITH POTASSIUM CHLORIDE.

**0005 DRINKING WATER PURIFICATION:**

THE (OPTIONAL) CENTRALLY LOCATED WATER PURIFICATION SYSTEM SHALL BE DESIGNED AND PROVIDED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA, WITH REMOTE POINTS OF PURIFIED DRINKING WATER DELIVERY AS SELECTED BY OWNER. SYSTEM SHALL INCLUDE COMMERCIAL REVERSE OSMOSIS TECHNOLOGY TO REMOVE CHEMICALS, HEAVY METALS, MOST PHARMACEUTICALS, DISSOLVED SOLIDS, FLUORIDE AND PHYSICAL IMPURITIES WITH EFFLUENT PRODUCT WATER NOT TO EXCEED 40 PARTS PER MILLION (PPM) OF TOTAL DISSOLVED SOLIDS (TDS) AT LOCATIONS AS DIRECTED BY OWNER.

LOCATE DEDICATED PURIFIED WATER FIXTURES AT KITCHEN SINK AND IN OTHER LOCATIONS AS DIRECTED BY OWNER. ALL DEDICATED FAUCETS SHALL BE PROVIDED WITH CUSTOM COLOR OR FINISH AS SELECTED BY OWNER. PROVIDE PURIFIED WATER LINES TO ALL COFFEE MAKERS, REFRIGERATORS, AND DRAINLESS ICE MAKERS WHERE THEY OCCUR.

WATER PURIFICATION SYSTEM SHALL BE PROVIDED WITH OUTPUT AND STORAGE TANK CAPACITIES SIZED TO SYSTEM REQUIREMENTS AS SELECTED BY THE OWNER. COMMERCIAL PUMP(S) TO BE INCLUDED WHEN REQUIRED, BASED ON SYSTEM REQUIREMENTS.

SERVICE TECHNICIANS FROM PURE ELEMENTS, INC., NEWPORT BEACH, CA SHALL PERFORM INSTALLATION AND SYSTEM START-UP. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**MECHANICAL SPECIFICATIONS:**

PLUMBING CONFIGURATION: PLUMBER SHALL BE SUPPLY A 1/2" COPPER FEED LINE WITH A 3/8" COMPRESSION OUTLET AT PURIFICATION SYSTEM LOCATION. DRAINAGE: PLUMBER SHALL SUPPLY 1" OR LARGER WASTE P-TRAP OR OTHER VENTED WASTE AT PURIFICATION SYSTEM LOCATION. SMITTY PAN: PLUMBER SHALL SUPPLY AND INSTALL A 30" DIAMETER ROUND SMITTY PAN WITH 1" O.D. P.V.C. DRAIN LINE TO OUTSIDE PER U.P.C. WHEN PURIFICATION SYSTEM IS LOCATED IN AN ATTIC OR CLOSET. ELECTRICAL: ELECTRICIAN SHALL PROVIDE A 110-VOLT SINGLE PHASE 20 AMP ELECTRICAL SUPPLY (NOT REQUIRED FOR SYSTEMS WITHOUT REPRESSURIZATION PUMPS).

**0006 PURIFIED DRINKING WATER DISTRIBUTION:**

ALL TUBING REQUIRED FOR THE OPERATION OF THE CUSTOM HOME WATER SYSTEM SHALL BE PROVIDED AND INSTALLED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA. ALL LINES FROM THE PURIFICATION UNIT SHALL BE NON-METALLIC, PASS ASTM STANDARDS F876 & F877, MEET OR EXCEED PPI STANDARDS, MEET NSF STANDARD CERTIFICATIONS, AND BE RATED TO TEMPERATURES OF 140 DEGREES. PURIFIED WATER LINES SHALL BE FINISHED WITH FULL PORT BALL VALVE SHUT-OFFS AT EACH POINT OF USE TO ALLOW COMPLETE ISOLATION FOR MAINTENANCE.

ALL CONNECTIONS SHALL BE MADE WITH CRIMP AND/OR EXPANSION PROCESSES. SERVICE TECHNICIANS FROM PURE ELEMENTS, INC., NEWPORT BEACH, CA SHALL PERFORM INSTALLATION AND COMPLETE FLUSHING OF LINES. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**0007 WATER CHILLING UNIT:**

A COMMERCIAL QUALITY WATER CHILLING UNIT SHALL BE PROVIDED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA AS AN UPGRADE TO THE WATER PURIFICATION SYSTEM AT LOCATIONS PER OWNER'S DIRECTIONS.

WATER CHILLER UNIT SHALL PROVIDE ICE-COLD WATER TO 38 DEGREES. WARRANTY SHALL BE 5 YEARS ON REFRIGERATION SYSTEM. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**MECHANICAL SPECIFICATIONS:**

ELECTRICAL: ELECTRICIAN SHALL PROVIDE A 110-VOLT SINGLE PHASE 20 AMP ELECTRICAL SUPPLY. IF REQUIRED BY CODE, OUTLET SHALL BE ON A DEDICATED CIRCUIT.

**0008 INSTANT HOT WATER DISPENSER:**

DUAL-TEMPERATURE HOT WATER DISPENSER AS PROVIDED BY PURE ELEMENTS, INC., NEWPORT BEACH, CA SHALL BE INSTALLED AT LOCATIONS AS SELECTED BY OWNER AND SHALL BE CAPABLE OF PROVIDING INSTANTANEOUS HOT WATER TO 190 DEGREES AND ROOM TEMPERATURE (DUAL-TEMPERATURE FIXTURE). EACH DISPENSING LOCATION SHALL BE PROVIDED WITH CUSTOM FAUCET IN COLOR AND FINISH AS SELECTED BY OWNER.

ROOM TEMPERATURE CAN BE UPGRADED TO CHILLED WATER WITH THE ADDITION OF WATER CHILLING UNIT IN 0007 ABOVE. CONTACT RICK ALLEN AT 949.644.1800. HOMEOWNERS SHALL BE REGISTERED WITH PURE ELEMENTS, INC. FOR FUTURE SERVICE AND REGULAR MAINTENANCE.

**MECHANICAL SPECIFICATIONS:**

ELECTRICAL: ELECTRICIAN SHALL PROVIDE A 110-VOLT SINGLE-PHASE 20 AMP ELECTRICAL SUPPLY. IF REQUIRED BY CODE, OUTLET SHALL BE ON A DEDICATED CIRCUIT.

**SCOPE OF WORK:**

PURE ELEMENTS, INC. SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, FIXTURES, AND SERVICES NECESSARY FOR THE EXECUTION AND COMPLETION OF ALL WORK AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. FOR EQUIPMENT THAT MAY BE PROVIDED BY SEPARATE CONTRACTOR, PURE ELEMENTS, INC. SHALL COORDINATE TO FACILITATE PROPER SYSTEM INSTALLATION AND START UP.

ALL WORK AND MATERIALS TO CONFORM STRICTLY TO ALL REQUIREMENTS OF LOCAL PLUMBING AND BUILDING CODES.

PURE ELEMENTS, INC. SHALL PROVIDE ALL PURIFIED WATER LINES, FINAL CONNECTIONS, AND TESTING AS REQUIRED.

PURE ELEMENTS, INC. SHALL PROVIDE NECESSARY CONNECTIONS FROM ALL EQUIPMENT TO APPROPRIATE WASTE SYSTEM DRAINS AS SUPPLIED BY PLUMBING CONTRACTOR.

ALL MATERIALS AND EQUIPMENT FOR THE PLUMBING SYSTEMS SHALL BE OF NEW STOCK AND PER PLUMBING SCHEDULE. UNLESS OTHERWISE NOTED AND/OR SPECIFIED, ALL MATERIALS, EQUIPMENT, AND APPARATUS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL.

ALL COPPER SHALL BE TYPE "K" BELOW SLAB.  
ALL COPPER SHALL BE TYPE "M" ABOVE SLAB.  
ALL COPPER LINES SHALL BE SOLDERED; NO JOINTS ARE PERMITTED BELOW ANY SLAB AREAS.

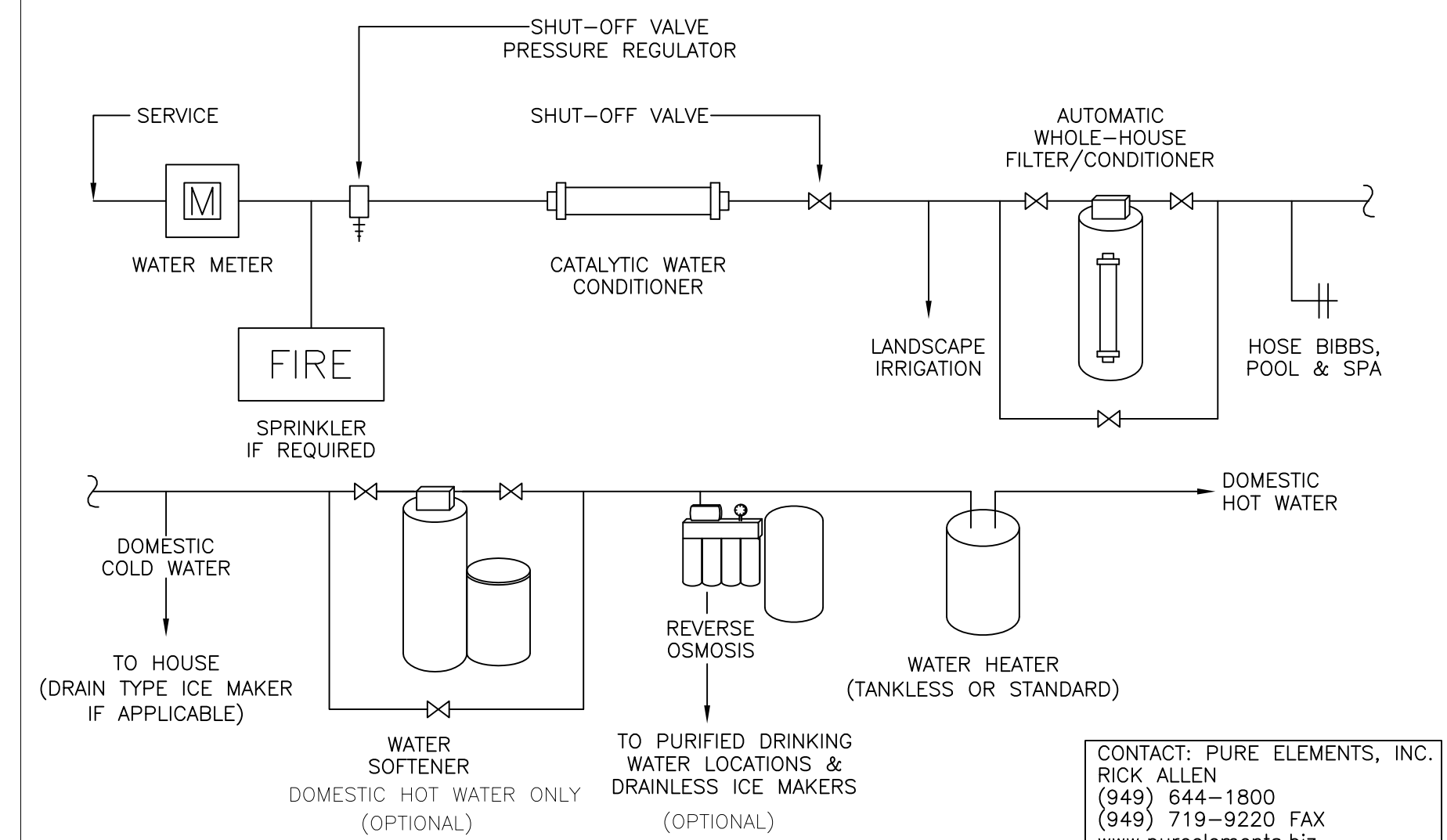
PLUMBER SHALL REVIEW LOCATION OF SUPPLY LOOP AND WASTE LINES WITH PURE ELEMENTS, INC. PRIOR TO COMMENCEMENT OF INSTALLATION.

ELECTRICIAN SHALL REVIEW LOCATION OF ELECTRICAL OUTLETS WITH PURE ELEMENTS, INC. PRIOR TO COMMENCEMENT OF INSTALLATION.

**CONTACT INFORMATION:**

RICK ALLEN  
PURE ELEMENTS, INC.  
2549B EASTBLUFF DRIVE, #468  
NEWPORT BEACH, CA 92660

PHONE: 949.644.1800  
FAX: 949.719.9220  
WEBSITE: WWW.PUREELEMENTS.BIZ  
E-MAIL: RICK@PUREELEMENTS.BIZ



CONTACT: PURE ELEMENTS, INC.  
RICK ALLEN  
(949) 644-1800  
(949) 719-9220 FAX  
www.pureelements.biz  
specs@pureelements.biz

**TOTAL PROPERTY WATER TREATMENT SYSTEM - SPECIFICATIONS**

PURE ELEMENTS, INC.

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