BLOW-OFFS

Blow-off assemblies shall be required at all low points in the transmission and distribution system pipelines, except at dead ends where flush-out is provided. Blow-off assemblies shall conform to Riverside Highland Water Company Standards herein.

THRUST BLOCKS

Concrete thrust blocks shall be installed as required, according to Riverside Highland Water Company Standards.

LOCATION WIRE

A continuous 14 gauge coated wire shall be placed along the full length of all non-metallic water mains. The locater wire shall be solid copper. The locator wire shall be affixed to the top of the pipe at 10 foot intervals and brought to the surface at each valve box cover. Wire shall be laid on all mains, laterals and services. (Disregard if the service is metallic). All locator wires shall be inter-connected and corrosion protected E joints.

1.07 ELECTRICAL EQUIPMENT

All electrical starters, switches, lights, motors, fixtures, controllers, and instruments shall be enclosed and constructed in accordance with the National Board of Fire Underwriters Specifications to meet the hazardous conditions anticipated. All Federal, State, and Local Fire Codes shall also be met. Outside type convenience outlets shall have ground fault with a separate circuit breaker and weather proof cover.

All starters shall be of the magnetic type and be provided with hand-off automatic selector switches. Only copper wire conductors shall be permitted. Starters for motors 50 horsepower and larger shall be soft start.

Company will specify equipment to be used to compliment that existing in the system.

1.08 AUTOMATIC CONTROLS

Wells, booster stations, storage facilities, and security devices shall be connected to the Company SCADA System. All facilities shall be electronically inter-connected to give the system automatic control. Provisions shall be made for manual control in the event of failure of automatic controls. All automatic controls shall be designated fail safe.

All automatic control valves shall be designed and integrated into the Company SCADA System.