

- O. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
- P. Refer to Section 15001 for excavation, backfilling and pumping requirements.
- Q. Install valves with stems upright or horizontal, not inverted.
- R. Pipe vents from gas pressure reducing valves to outdoors and terminate in weather proof hood.
- S. Install water piping to ASME B31.9.
- T. Buried water piping shall be at least 12" deep.
- U. Install trap primers in accessible locations. Provide access panels as necessary.
- V. Maintain water/sewer horizontal separation of 10'.
- W. PVC Pipe: Make solvent-welded joints in accordance with ASTM D 2855.
- X. Sleeve pipes passing through partitions, walls and floors with a schedule 40 pipe two sizes larger.
- Y. Prior to located building drain and branch lines, confirm piping will not be placed so as to run lengthwise under load bearing portions of or in footings. Adjust placement of pipe as necessary to avoid this condition.
- Z. Insulation
 - 1. Insulate all hot water distribution piping and all cold water piping exposed ambient temperatures including cold water piping in uninsulated attic space.
 - 2. Use application details in accordance with the insulating material supplies recommendations except where a higher standard is specified herein.
 - 3. Run covering for piping unbroken through hanger clevises, sleeves, etc. Use details for covering odd surfaces such that continuous covering with unbroken vapor barrier is provided. Use these same covering and hanging details for pipes connecting to vibrating equipment or carrying pulsating pressure to avoid metal-to-metal contact between pipes and hangers.
 - 4. Provide an insert, not less than 6" long, of the same thickness and contour as adjoining insulation, between support shield and piping, but under the finish jacket, on piping 2" or larger, to prevent insulation from sagging at support points. Use heavy density insulation materials suitable for the specified temperature range and strong enough to prevent crushing.
 - 5. Cover surfaces of valves, fittings, stainers, and specialties with built-up insulation around irregular shapes to form smooth cylindrical surfaces. Cover such specialties in "cold" systems with special care to maintain continuous vapor barrier. Cover flanges and ground joint unions in "cold" systems.

AA. Sleeve and Escutcheon Installation

- 1. Accurately locate and set required sleeves in walls, foundations, floors, etc. Where more than