PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install gas-fired storage type water heater as described in Contract Documents.

B. Related Sections:
   1. Section 22 0501: Common Mechanical Requirements.
   2. Section 22 1116: Domestic Water Piping.
   3. Section 23 5135: Air Piping.

1.2 WARRANTY

A. Three-year on tank and one-year for parts.

B. Five-year on tank and one-year for parts.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

A. Condensing Type Water Heaters:
   1. Stainless steel or 90/10 cupronickel heat exchanger, pressure tested and rated for 150 psi w.p.
      complete with thermostat, high limit control, gas pressure regulator, 100 percent safety shutoff
      and powered combustion air blower. AGA and CGA approved.
   2. 94 percent thermal efficiency.
   3. Temperature and pressure relief valve sized to match heat input and set to relieve at 120 psi.
   4. 80 - 100 Gallon 303 - 378.5 Liter:
      a. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
         1) Cyclone-XHE Model BTH-199 by A. O. Smith.
         2) Voyager SSV-199-80R by Heat Transfer Products.
   5. 45 - 50 Gallon 170 - 189 Liter:
      a. Category Four Approved Products. See Section 01 6000 for definitions of Categories.
         1) Polaris PGC5 50-130-2NV by American.
         2) Voyager SSV-100-45 by Heat Transfer Products.
         3) Advantage Plus HE45-100 by Rheem-Ruud.
   6. 34 Gallon 128.7 Liter:
      a. Category Four Approved Product. See Section 01 6000 for definitions of Categories.
         1) Polaris Model PGC5 34-130-2NV by American.
   7. 35 Gallon 132.5 Liter:
      a. Anti-scald valve, expansion tank and concentric roof termination kit.
      b. Category Four Approved Product. See Section 01 6000 for definitions of Categories.
         1) Complete Heat Model HM30-150 by Lennox.

2.2 ACCESSORIES

A. Anchoring Components:
1. One inch by 18 ga 25 by 1.3 mm galvanized steel straps.
2. No. 10 by 2-1/2 inch 63 mm screws.

B. Thermal Expansion Absorbers:
1. Bladder type for use with potable water systems.
2. Type One Acceptable Products:
   b. Equal as approved by Architect before bidding. See Section 01 6000.

2.3 MANUFACTURERS
A. Contact Information:

PART 3 - EXECUTION

3.1 INSTALLATION
A. Install temperature-pressure relief valve on hot water heater and pipe discharge to directly above funnel of floor drain.

B. Anchor water heaters to wall using two anchoring straps and specified screws.