

7. DISPENSER CHECK-OUT:

- a. Dispensers shall be activated only in the presence of an authorized dispenser representative. Contractor has sole responsibility of damage to dispenser(s) if this instruction is not followed.
- b. Purge Lines
- c. Activate dispenser by turning operating handle on for the most remote STP but do not open nozzle. Allow STP to remain on without opening the nozzle for five minutes. Inspect connections under each dispenser and at the STP union for leaks.
- d. Deactivate dispenser and allow to stand five minutes.
- e. Reactivate dispenser and open each nozzle starting at nozzle most remote from STP and working back in sequence. Deliver 20 to 30 gallons or as necessary to be assured all air has been removed from the system through each nozzle.

8. CHECK-OUT OF DISPENSING SYSTEM ELECTRICAL

- a. Turn of all circuit breakers controlling STP's.
- b. Confirm all nozzles are in boot.
- c. Turn on circuit breakers or switch controlling one STP. One hose at a time for Product grade matching STP. Perform the following:
 - 1. Remove nozzle
 - 2. Turn operating handle on and dispense product to confirm hose is pressurized.
 - 3. Verify that only the correct STP turns on.
 - 4. Verify that brand panels on each side of dispenser are the same grade.
 - 5. Repeat items above for each product grade.
- d. The above operation shall be repeated for each hose position.
- e. If misconnections or other problems are detected using above procedure, corrections are to be made and repeat entire system check-out.

9. LEAK DETECTOR TEST

- a. Contractor shall perform testing of each leak detector as per Red-Jacket instructions and specifications.
- b. Prior to acceptance of the project by Amoco Oil Company, the Contractor shall furnish to the Amoco Engineer for his files, a certification that all leak detector tests have been performed properly.
- c. Contractor to have test equipment consisting of short section of tubing, pressure gauge and bibcock.
- d. Test equipment is to be installed at the test port in the safety valve (shear valve) under the dispenser.
- e. Start test by closing the bibcock valve. Line pressure should be zero.
- f. Start STP by activating dispenser operating handle and dispense a few gallons to remove any air which may have entered when installing test apparatus.
- g. Turn off STP and open bibcock to drop line pressure to zero. (No more than about half a cup -- one to three ounces --- of product should drain from bibcock which indicates there is no air in system and that line pressure is zero).
- h. Close bibcock and start STP. (The line pressure should rise immediately to 8-10 psi and after approximately two seconds full pump pressure will be shown on gauge, 27 to 36 psi. This confirms that the leak detector is operating properly.
- i. As a further assurance a leak detector is operating properly, turn STP off, open bibcock on test apparatus and drop line pressure to zero. Leaving bibcock open several turns to establish a "leak" in the line (collect product in appropriate container).
- j. Again turn STP on, line pressure should read below 8 psi (depending upon flow rate through bibcock).
- k. Open nozzle into test container. Flow rate should be approximately 1.5 to 3.0 GPM. If full flow rate is realized through nozzle, leak detector is not operating properly.
- l. Close dispenser nozzle. The pressure reading should return to 8 to 10 psi. If full line pressure (approximately 26 psi) is achieved while "leak" is in bibcock, it indicates the leak detector is not operating properly and must be replaced. If test results are favorable, turn STP off and remove test apparatus.

NOTE: If it takes more than 2 seconds for the line pressure to build to full pump pressure and the leak detector to pen to the unrestricted flow position, then either a leak is present in the system downstream from the leak detector or air is trapped in the piping. If the problem is not due to air in the system then the piping shall be tested for leaks.

- m. Amoco Engineer to assure above check-out procedure is followed and confirm that all leak detectors are operational before acceptance of project.
- n. Calibrate and seal meters per local regulations.

10. ABANDONMENT OR REMOVAL OF UNDERGROUND TANKS

- a. DOCUMENTATION - All permits, receipts, bills of sale, etc. obtained by the Contractor during the course of the work shall be turned over to Amoco Oil Company's representative. The Contractor shall also furnish on his letterhead the following information: (1) Site Location (2) Size of Tanks in Gallons (3) Number of Tanks (4) Type of Product Removed from Tank (5) Date (6) Method Employed to Fill Tanks (if abandoned temporarily or permanently.) (7) Names of Local Authorities Contacted and Present at the Site During the Work. (8) Name and Location of Disposal Site of Tanks or Name of Party to Whom Sold.

- b. PREPARATION - The Contractor shall perform this work in accordance with local and state codes where applicable or in accordance with National Fire Protection Association Standards No. 30, No. 329M and No. 327 and the Federal Occupational Safety and Health Act of 1971. Complete familiarization with all applicable regulations, including Amoco Oil Company's General Conditions of Construction Contracts shall be considered prerequisite for the execution of this work. All necessary permits, insurance certificates, fees or Amoco's written permission, where necessary, shall be obtained by the Contractor at the Contractor's expense.

- c. REMOVAL - The Contractor shall personally survey the tank area and observe the conditions under which this work will be performed. The Contractor shall pay particular attention to the proximity of all possible sources of ignition. Natural surface drainage, open inlets, adjacent buildings, vehicular and pedestrian traffic shall all be carefully evaluated as potential contributing factors to the collection and ignition of explosive vapors released during the performance of this work; and he shall take steps to make the proposed work area safe from vehicular and pedestrian traffic at all times, posting and enclosing the site sufficiently for the safe execution of this work. The Contractor shall have on hand at all times adequate fire fighting equipment, Class B foam type, and shall notify the local fire department as to the scope of the anticipated work. All underground tanks, including shall be removed and disposed of using equipment designed for such work suitable for Class I, Group D locations. Only those tanks that can be properly uncovered, degassed, inspected and removed safely from the site in one continuous operation within one (1) working day shall be considered for removal. Adjacent tanks also scheduled for removal shall be left covered and adequately protected until the next working day. Time shall be of the essence and all possible effort should be made to complete the entire removal project without violating safe working standards. Tanks or related piping shall be drained of product as much as possible using hand pumps before purging with an approved material. Care shall be taken to prevent purging material or any other matter, liquid or solid, used during this operation from entering any public sewer, inlets or natural drainage systems, or be spilled on any surface that would ultimately allow material to drain onto soil.

Only after the tank has been thoroughly emptied of product and checked for flammable vapors with a combustible gas indicator shall the tank be completely uncovered and removed from the ground. Immediately upon removal the tank shall be loaded on a suitable transport and removed from the site. Preparations shall be made for escort service through congested urban areas as may be required by local authorities. The tanks shall be tested again at the disposal site with a combustible gas indicator before physically puncturing the tank to prevent possible re-use by salvage dealers or other unknown parties. A receipt of delivery shall be obtained from the salvage dealer by the Contractor; or in the event of sale to other parties, a bill of sale shall be properly executed at time of delivery. Used tanks shall not be sold for use as storage tanks.

- d. TEMPORARY ABANDONMENT - The Contractor shall fill all tanks with water as required after product removal according to instructions herein. All product lines and tank fittings shall be capped, except vent line system which shall remain operative. Water shall be removed and disposed of per all local and state regulations and codes.

- e. PERMANENT ABANDONMENT - The Contractor shall fill all tanks with a solid inert material such as sand or, if required by local code, sand/concrete mix 6:1 (six parts sand to one part portland cement) after product removal and vapor freeing according to instructions herein. When it is necessary to enlarge the opening in the tank to allow filling, care should be made to vapor check the tank compartment before applying cutting tools. All product lines and tank fittings shall be permanently capped and the area over the tank area backfilled with suitable inorganic earth material.

- f. CLEAN UP - Contractor shall remove all crates, cartons, cuttings, and other debris resulting from this installation from the property and dispose of it in an acceptable manner. Contractor shall correct any damage or soiling of building or equipment as a result of his work at his own expense and to the satisfaction of Amoco's Project Engineer.



UNDERGROUND TANK INSTALLATION DETAILS

Scale: _____	District: _____
Drawn By: _____	Date: _____
Checked By: _____	No. TD-5
Approved: _____	Do not scale, use dimensions only