

5. MANHOLE ASSEMBLY

- a. manhole cover, frame, and skirt assemblies shall be provided in the tank top slab over tank openings where required by the Contract Drawings. The Contract Drawings show number, size, and location of manhole assemblies required for each tank top slab. Each manhole assembly shall be a Fibrelite Composite Manhole, as manufactured by Fibrelite Corporation, Cresskill, New Jersey, or approved equal.
2. Cover: Each manhole cover and frame shall be suitable for use under NYSDOT H-20 live loads. Where applicable, each cover shall be provided with a FRP inscription and shall be color-coded to conform to the American Petroleum Institute Color and Symbol Code. The surface resistivity of each cover shall be less than 1×10^8 Ohms to prevent the buildup of static charge.
3. Frame: Each manhole frame shall incorporate a physical water check system to prevent surface water from entering the manhole. This system shall require no penetrations. A locking device shall be provided for each manhole.
4. Skirt: Each manhole shall be constructed of fiberglass and colored to match the cover with it will be used. The skirt shall extend to within two inches of the manhole cover. Each skirt will be supplied with a stabilizer rod kit for concrete installation. The rod kit shall be made of stainless steel.
5. Handle: Each handle shall be formed with 1-1/8-inch stainless steel tubing with alloy casting for the key and a plastic grip. Each handle shall include a locking tool. A handle shall be furnished for each individual manhole cover.

1.02 SPILL CONTAINMENT FILL BOX ASSEMBLY

- A. Below Grade Spill Containment Fill Box Assembly
 1. Below grade spill containment fill box assemblies shall be provided where required by the Contract Drawings. The Contract Drawings show the type, number, size, and location of spill containment fill box assemblies required for each tank. Each spill containment fill box, manhole cover, frame, and skirt assembly shall be Fibrelite Spill Containment Fill Box Model 1229-76, as manufactured by Fibrelite Corporation, Cresskill, New Jersey, or approved equal.
 2. Spill Containment Fill Boxes:
 - a. Each below grade spill containment fill box shall be constructed of 304 stainless steel, capable of withstanding a 150-psi line test.
 - b. Each spill containment fill box shall have a capacity of no less than fifteen (15) gallons for containment of product spilled during the coupling and uncoupling of the fill hose and all related tank filling operations. Each spill containment fill box shall be provided with an automatic drain, test plug assembly, lockable fill cap, bronze fill adapter, and a No. 20-mesh brass screen.
 - c. An FRP product ID tag shall be provided with each spill containment fill box and inscribed as follows:

Motor Oil
(Actual Capacity of Tank) Gallons
Tank No. 1, No. 2, etc.

3. Spill Containment Fill Box Manhole Covers and Frames:
 - a. Cover: Each manhole cover and frame shall be suitable for use under NYSDOT H-20 live loads. Each cover shall be provided with a FRP inscription and shall be color-coded to conform to the American Petroleum Institute Color and Symbol Code. The surface resistivity of each cover shall be less than 1×10^8 Ohms to prevent the buildup of static charge.
 - b. Frame: Each manhole frame shall incorporate a physical water check system to prevent surface water from entering the manhole. This system shall require no gaskets, penetrations, or other mechanical device.
 - c. Skirt: Each manhole skirt shall be constructed of fiberglass and colored to match the cover with which it will be used. Each skirt shall extend within two inches of the manhole cover. Each skirt will be supplied with a stabilizer rod kit for concrete installation. Each rod kit shall be made of stainless steel.
 - d. Handle: Each handle shall be formed with 1-1/8-inch stainless steel tubing with alloy casting for the key and a plastic grip. Each handle shall include a locking tool. A handle shall be furnished for each individual manhole cover.