SECTION ### - OIL AND SEDIMENT WASTE INTERCEPTORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Oil interceptors.

1.3 DEFINITIONS

A. FRP: Fiberglass-reinforced plastic.

B. OIL AND SEDIMENT WASTE INTERCEPTOR: Elliptical fiberglass (FRP) tank system designed with built-in inlet piping and baffle penetration that introduces wastewater in a tangential laminar flow to reduce disruption of collected hydrocarbon oil, sediment~~, automotive fluids~~ and solids. Tank system is designed to capture and hold waste fluids and solids to maximize waste retention and optimize Stokes Law separation. System backed by 30 year manufacturer warranty.

1. OIL AND SEDIMENT INTERCEPTOR OR SEPARATOR: Elliptical fiberglass (FRP) interceptor that is certified to meet IAPMO PS 80-2008 and applicable sections of the latest editions of the Uniform Plumbing Code or the International Plumbing Code. Interceptor is designed to deliver 10 PPM non-emulsified free-floating oil and 350 PPM Total Suspended Solids effluent quality based on inlet peak fixture flow.
2. CLARIFIER: Elliptical fiberglass (FRP) interceptor that is certified to meet IAPMO PS 80-2008 and applicable sections of the latest editions of the Uniform Plumbing Code or the International Plumbing Code. Interceptor is designed to deliver 10 PPM non-emulsified free-floating oil and 350 PPM Total Suspended Solids effluent quality based on inlet peak fixture flow
3. FLAMMABLE OIL AND SOLIDS INTERCEPETOR OR SEPARATOR: Elliptical fiberglass (FRP) interceptor that is certified to meet IAPMO PS 80-2008 and applicable sections of the latest editions of the Uniform Plumbing Code or the International Plumbing Code. Interceptor is designed to deliver 10 PPM non-emulsified free-floating oil and 350 PPM Total Suspended Solids effluent quality based on inlet peak fixture flow

1.4 ACTION SUBMITTALS

A. Product Data: Include materials of fabrication, dimensions, rated capacities, retention capacities, operating characteristics, size and location of each pipe connection, furnished specialties, and accessories.

B. Shop Drawings: For each type and size of interceptor indicated.

1. Include materials of construction, dimensions, rated capacities, retention capacities, location and size of each pipe connection, furnished specialties, and accessories.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Interceptors, drawn to scale, on which the following items are shown and coordinated with each other, based on input from Installers of the items involved:

1. Interceptors.
2. Piping connections. Include size, location, and elevation of each.
3. Interface with underground structures and utility services.

1.6 PROJECT CONDITIONS

A. Interruption of Existing Sewer Services: Do not interrupt services to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary sewer services according to requirements indicated:

1. Notify [**Architect**] [**Construction Manager**] [**Owner**] no fewer than [**seven**] <**Insert number**> days in advance of proposed interruption of service.
2. Do not proceed with interruption of sewer services without [**Architect's**] [**Construction Manager's**] [**Owner's**] written permission.

PART 2 - PRODUCTS

2.1 OIL INTERCEPTORS

A. Basis of Design: Elliptical Fiberglass (FRP) oil interceptor construction, as supplied by Green Turtle Americas Ltd. or Green Turtle Technologies Ltd., with inlet piping and baffle penetration designed to introduce wastewater in a tangential laminar flow pattern, to be appropriately sized based on anticipated usage and flow rates to meet applicable sanitary sewer discharge limits, incl. municipal by-laws.

1. Include accessways, cells or baffles, and piping or openings to retain ~~grease~~ hydrocarbon and solids and to permit wastewater flow.

2. Factory installed Schedule 40 PVC cement welded type socket ports, or straight pipe, fitted into interceptor walls for each pipe connection.
3. Accessway Extension Collar:
   a. Fiberglass risers (EC2), 24-inch (610-mm). 36-inch (915-mm) optional alternate.

4. Accessway Frames and Covers: Round cover with non slip cover finish, gasketed and non vented top design with "Proceptor" lettering cast into cover.

   a. Cast Iron: AASHTO M306 Traffic load rated. 24 inch- (610-mm-) diameter cover with 0.25" (6-mm-) gasket. Two closed pickholes. Non Bolted or Bolted option. Weight 249 lbs. ASTM A48 CL35B. 36-inch (915-mm) optional alternate is acceptable to match fiberglass risers.

   b. Fiberglass: Pedestrian loading 24" diameter bolted and gasketed.

5. Watertight Flexible Caulking: Sikaflex 255 or Sikaflex 221 or approved alternate to provide watertight seal at extension collar joints.

B. Capacities and Characteristics:

1. Number of Compartments: <x **cells**>
2. Oil Retention Capacity: <xxx **USG**>.
3. Solids Retention Capacity: <xxx **USG** >.
4. Inlet and Outlet Pipe Size: <**4"/6"**>.
   a. Centerline of Inlet to Floor: <**Insert inches (mm)**>.
   b. Centerline of Outlet to Floor: <**Insert inches (mm)**>.
5. Vent Pipe Size: <**3"**>.
6. Installation Position: Above grade or **Underground with accessway collar riser to grade**.
7. OPTIONS as required:
   a. 4" Side or Top Suction port for remote pump-out.
   b. Alarm for high oil accumulation. Includes alarm probe to be installed in top of tank accessway and alarm panel ~~with buzzer and light~~ for indoor wall mount.
8. Green Turtle Proceptor Model: : <**OMC XXX**>.

2.2 FIBERGLASS ACCESSWAY RISERS

A. Fiberglass accessway extensions: Fiberglass wound pipe.

1. Length: From top of underground tank to underside of access frame at grade.
2. Extension Sections: 0.25-inch (6-mm) minimum thickness and [**24-inch (610-mm) or 36-inch (915-mm) I.D.**] as a single continuous piece, without joints unless approved by the manufacturer.
3. Sealant: Watertight Flexible Caulking, Sikaflex 255 or Sikaflex 221 or approved alternate to provide watertight seal at extension collar joining to tank on bottom and access frame at top.

PART 3 - EXECUTION

3.1 EARTHWORK

A. Excavating, trenching, and backfilling are specified in Section ### "Earth Moving."

3.2 INSTALLATION

A. Install fiberglass interceptors according to manufacturer's installation instructions.

3.3 CONNECTIONS

A. Piping installation requirements are specified in Section ### "Sanitary Waste and Vent Piping." Drawings indicate general arrangement of piping, fittings, and specialties.

B. Make piping connections between interceptors and piping systems.

3.4 IDENTIFICATION

A. Identification materials and installation are specified in Section ### "Earth Moving." Arrange for installation of green warning tapes directly over piping and at outside edges of underground interceptors.

1. Use warning tapes or detectable warning tape over ferrous piping.
2. Use detectable warning tape over nonferrous piping and over edges of underground structures.

END OF SECTION ###