



## PRODUCED WATER PIT CONSTRUCTION PROFILE

### MULTI-LAYER GEOYNTHETIC SYSTEM WITH STANDARD LEAK DETECTION

1

#### PRIMARY LAYER

- 40 TO 60 MIL HDPE LINER
- DURABLE TOP LAYER
- RUB SHEETS FOR TRAFFIC AREAS

2

#### DRAINAGE LAYER

- 200 MIL GEO NET
- MIDDLE DRAINAGE LAYER
- CHANNELS FLUID TO SUBSUMP

3

#### SECONDARY LAYER

- 40 TO 60 MIL HDPE LINER
- INITIAL LEAK PROTECTION
- CONTAINS LEAKAGE FROM PRIMARY

4

#### BASE PROTECTIVE LAYER

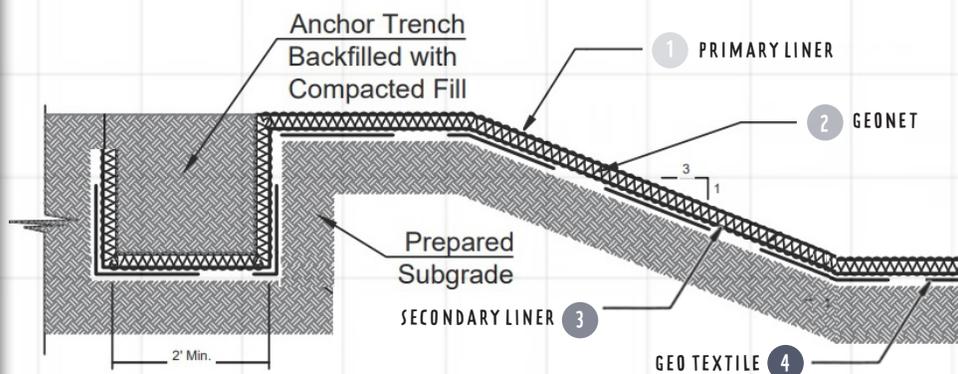
- 8 OZ GEOTEXTILE
- BOTTOM CUSHION LAYER
- PROTECT LINER FROM SUBGRADE

5

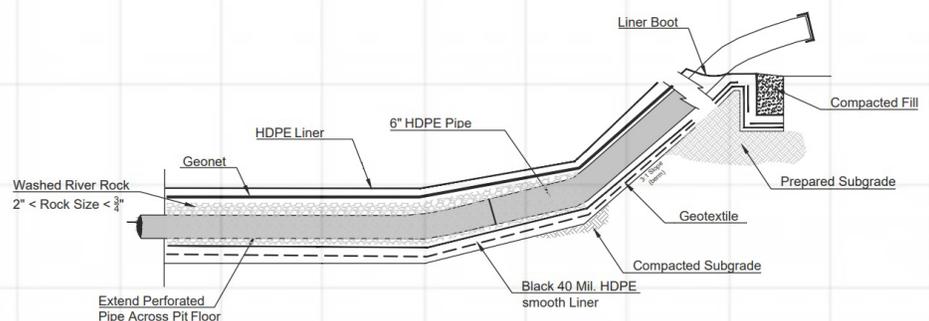
#### LEAK DETECTION SYSTEM

- GRAVEL FILLED SUBSUMP
- PERFORATED POLY PIPE INSERT
- REMOVABLE SUMP PUMP

### ANCHOR TRENCH AND LINER LAYERS



### STANDARD LEAK DETECTION INSTALL



# PROTECTED BY PATRIOT!



**BUILD. LINE. SECURE.**



Patriot Environmental, LLC is an industry innovator for fluid containment solutions. We support the domestic Oil & Gas Hydraulic Fracturing & Drilling sector and provide containment solutions to other industries nationally.



**Liners & Pit Construction**

- Geosynthetic Liner Sales, Service & Installation
- Fresh & Produced Water Pit Containments
- Leak Detection Systems, Fencing & Erosion Control



**Secondary Containments**

- Spray-in Liner or Rolled Liner Systems
- Flat Metal or Corrugated Containment Walls
- Tank Pads, Walk-Overs and Containment Accessories



**Asset Mapping & Monitoring**

- Aerial & Water Drone Mapping & Volumetrics
- Remote Level/Volume, Water Quality & Meter Monitoring
- Up-to-the-Minute Reporting, Alarms & Full History Reports