Typical Details for Utilities Below Wall

- **Depth Varies**
- **Utilities (Designed by Others)**
- **Any Disturbance of the Soils Outside the 1:1 Excavation Area Must Also Be Filled with Select Fill**
- **This Area Must Be Backfilled with Select Fill, Compacted to 100 Percent of the Standard Proctor Maximum Dry Density.**

**Geosynthetic Reinforcement (L)**

- **6" Minimum Compacted Granular-Base Leveling Pad**
- **W_{gf} = Width of Granular Fill**
- **D_{p} = Depth of Pipe**
- **L = Length of Geosynthetic Reinforcement**
- **W_{gf} = (2 \times D_{p}) + L + 6"**

This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.