



## **Product Specifications**

### **Shallow Mount Bollard (Model SMB-400 SA)**

1. Crash tested & certified with ASTM F2656-07 M30 (P1) rating.
2. Department of Defense (DoD) approved and listed on the most recent Anti-Ram Vehicle Barrier List.
3. One, single stand-alone bollard stops 15,000 lbs. vehicle at 30 MPH impact within 1 meter penetration.
4. Shallow foundation only 10" deep avoids underground utilities.
5. Excavation of 66" wide X 12" deep with 3000 dpi concrete (about 1.15 cy concrete per bollard).
6. One, prefabricated bollard unit to set; allows for field adjustments.
7. No field welding, bolted connections of specialty subgrade required for installation. Slide in horizontal rebar once bollard is set onsite at desired spacing.
8. Easily installed across turns and grade elevation changes.
9. Bollard spacing up to 54" on center. Minimizes number of bollards required (fewer bollards reduces both material and installation costs).
10. A variety of bollard covers available including stainless steel, thermoplastic, decorative shapes, concrete, lighted, and others.
11. Drawings, submittals, engineering support and installation support included.