

# KEEP PEDESTRIANS AND STUDENTS SAFE

PEDESTRIAN SAFETY PRODUCTS BY 1254, STOPS A 15,000 LB VEHICLE @ 50MPH

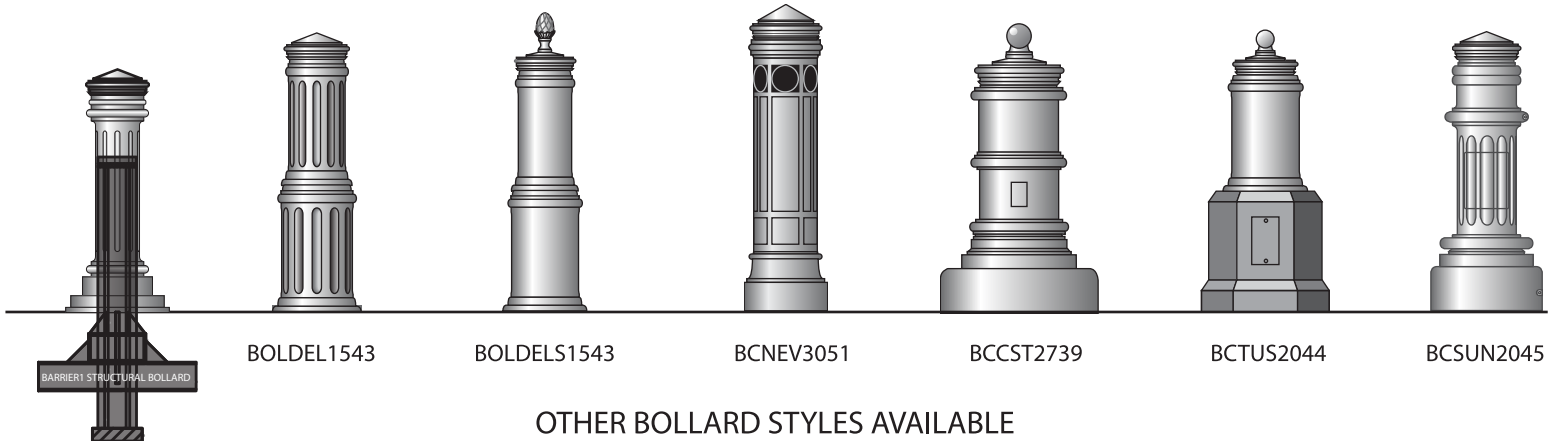
# 1254

TWELVE FIFTY FOUR INDUSTRIES

MODEL #: 12BOL-SP-15K50MPH



- ◆ Crash tested and certified with ASTM F2656-07 M50 rating (K12).
- ◆ Department of Defense (DoD) approved and listed on Anti-Ram Vehicle Barrier List.
- ◆ One single standalone bollard stops 15,000 lb. vehicle at 50 mph with 1.2 meters penetration.
- ◆ 2+ bollard array is ASTM M50 P1 (K12) certified. Vehicle penetration less than 1 meter.
- ◆ Unrestricted bollard spacing (any distance), while maintaining ASTM M50 P1 certification. (fewer bollards results in less costs)
- ◆ Simply set single prefabricated bollard in excavation and pour concrete (no rebar in foundation).
- ◆ No tying, bolting, welding, assembly, or specialty subgrade required.
- ◆ Excavation 48" wide by 36" deep with 4000 psi concrete.
- ◆ Easy to install with turns and across grade elevation changes using standard bollard.
- ◆ Drawings, submittals, engineering support, and installation instructions with photos are included.
- ◆ Variety of bollard covers are available including stainless steel, plastic, decorative shapes, concrete, lighted covers, and others
- ◆ Bi-directional stopping capability.
- ◆ Removeable bollard configuration is available.
- ◆ Reduce installation time and cost by about 50%
- ◆ Allows for field adjustment.

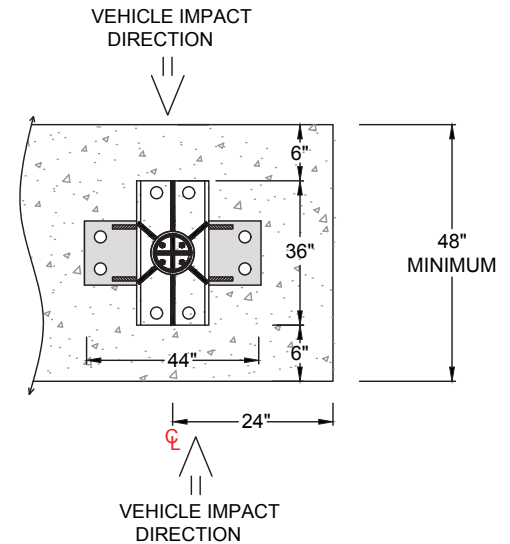
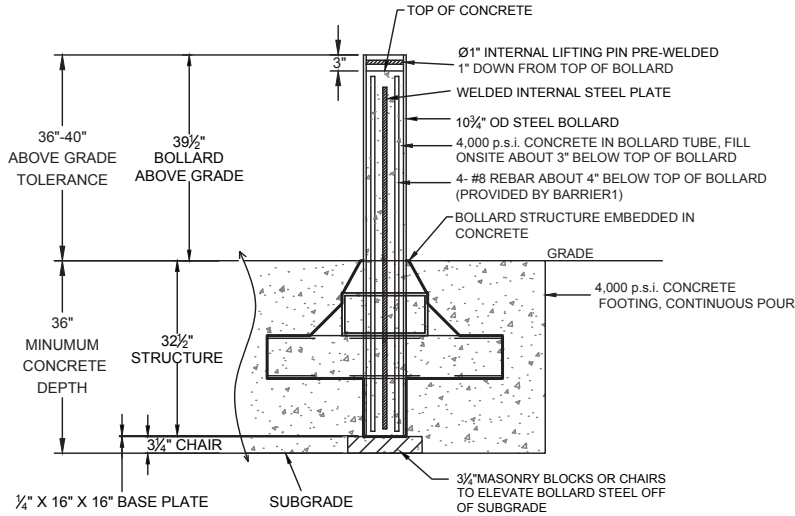


OTHER BOLLARD STYLES AVAILABLE

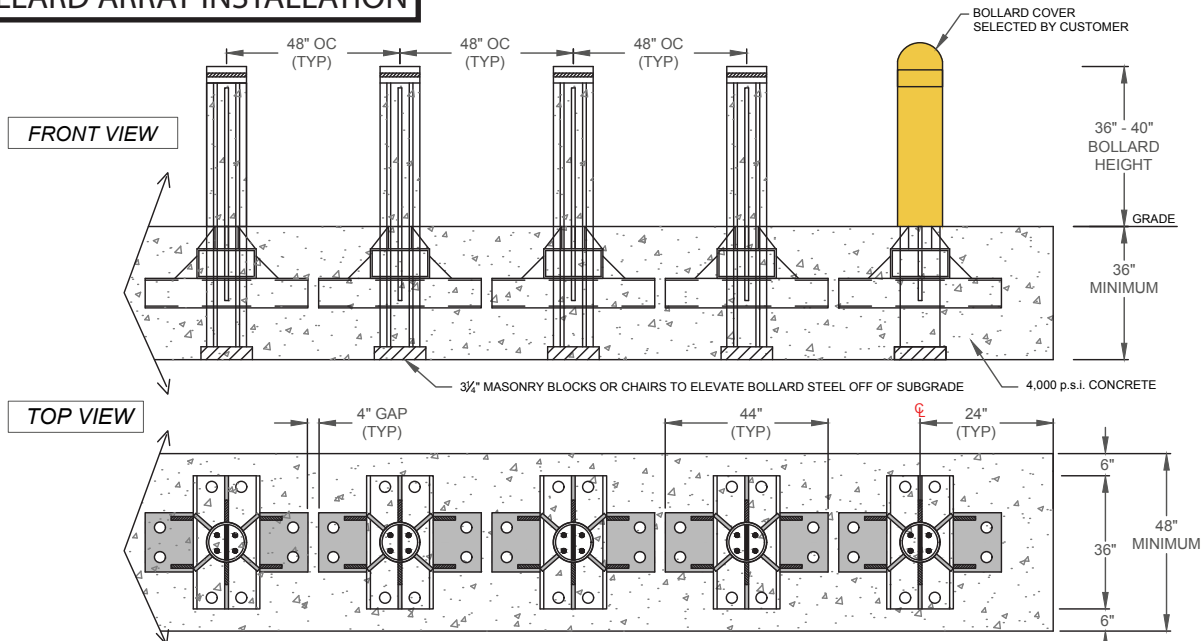


## INSTALLATION INSTRUCTIONS

### FIXED BOLLARDS (PREFABRICATED)



### TYPICAL BOLLARD ARRAY INSTALLATION

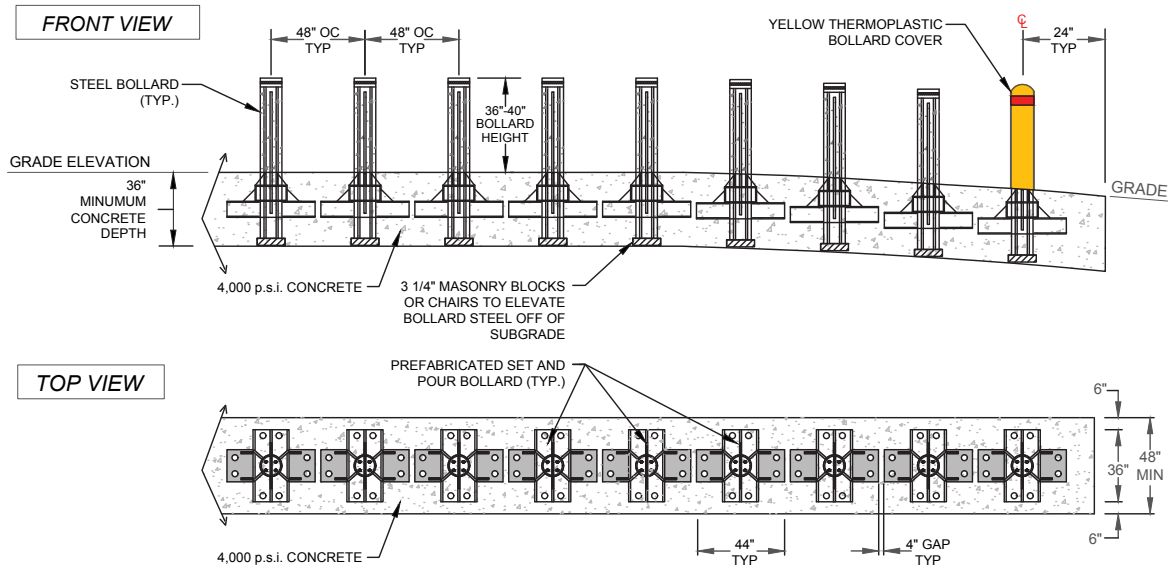


#### KEY CAPABILITIES

1. NO PLACING & TYING REBAR IN CONCRETE FOUNDATION.
2. ONE (1) SINGLE PREFABRICATED BOLLARD UNIT STOPS THE VEHICLE IMPACT.
3. QUICK INSTALLATION (EXCAVATE, THEN SET BOLLARD & POUR CONCRETE).
4. AVOIDS EXCAVATIONS BEING OPEN OVERNIGHT (SET & POUR BOLLARD ARRAY IN 1 DAY).
5. UNRESTRICTED BOLLARD SPACING (ONE BOLLARD STOPS VEHICLE IMPACT).

# INSTALLATION INSTRUCTIONS (cont.)

## BOLLARD INSTALLATION ACROSS GRADE CHANGES



## BOLLARD INSTALLATION WITH TURN

