

# B1 HERCULES M50

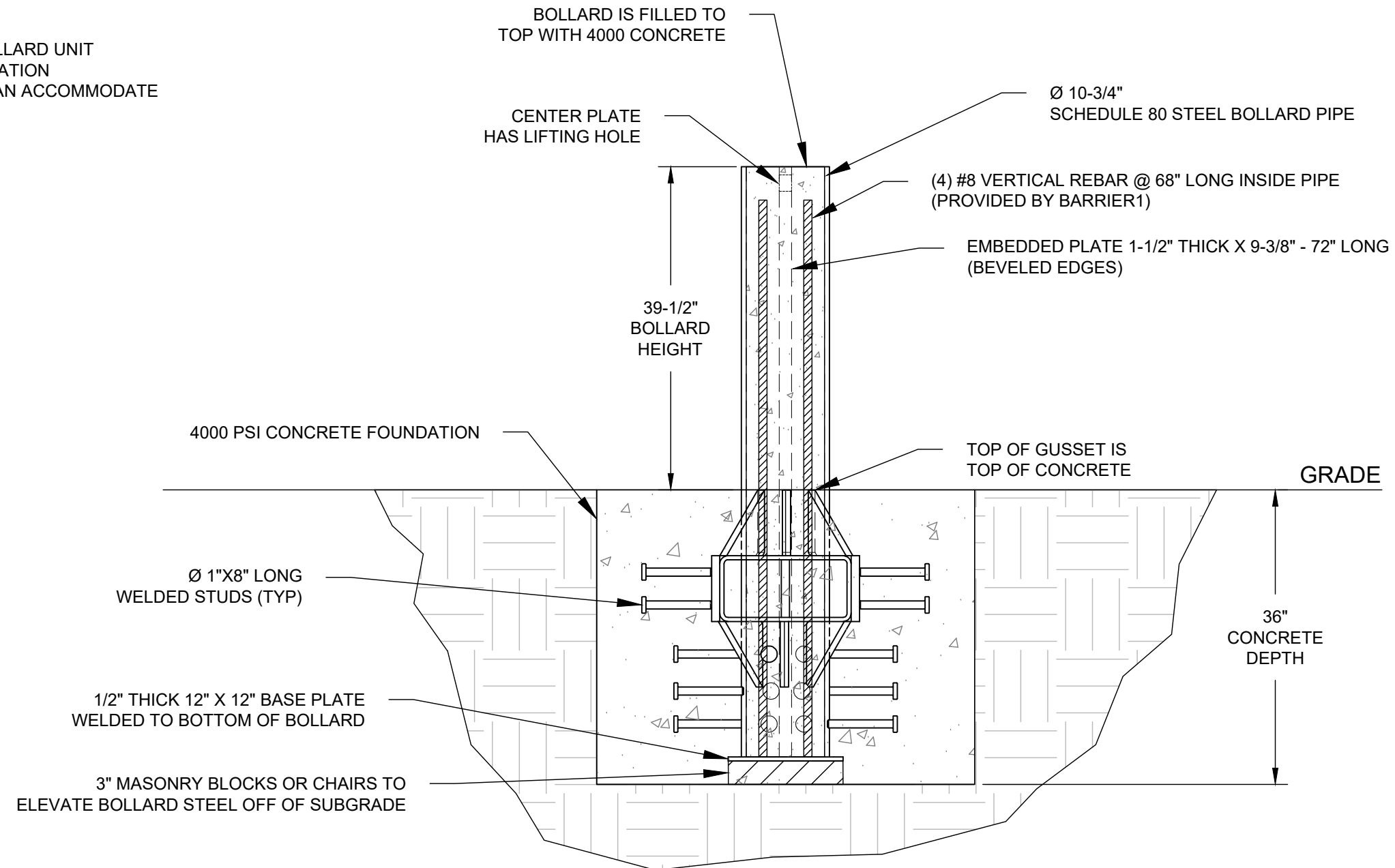
SET & POUR BOLLARD - MODEL SPB-1200

CRASH TESTED TO ASTM F2656-07 - M50/P2 RATED - STOPS 15,000 LB. VEHICLE AT 50 MPH IMPACT

## TYPICAL SINGLE BOLLARD INSTALLATION

### KEY FEATURES:

1. PREFABRICATED BOLLARD UNIT
2. NO REBAR IN FOUNDATION
3. BOLLARD SYSTEM CAN ACCOMMODATE TURNING RADIUS



**BARRIER1 SYSTEMS, LLC**

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ELEVATION VIEW  
(STAND-ALONE)

SPB-1200  
SUBMITTAL DRAWING

SHEET: 1 OF 6

20230227-10-M

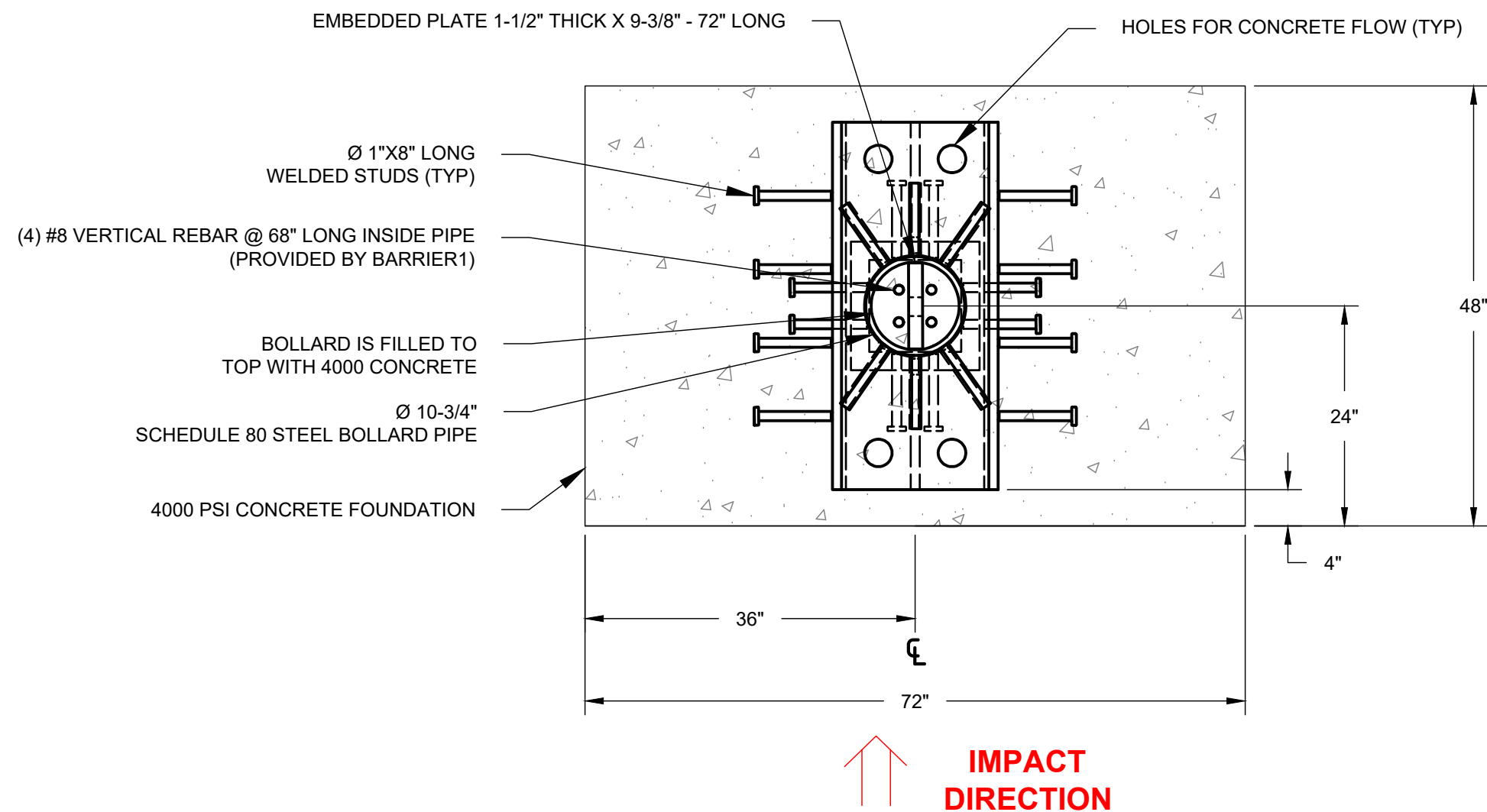
SCALE: N.T.S.

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PLAN VIEW  
(STAND-ALONE)

SPB-1200  
SUBMITTAL DRAWING

SHEET: 2 OF 6

20230227-10-M

SCALE: N.T.S.

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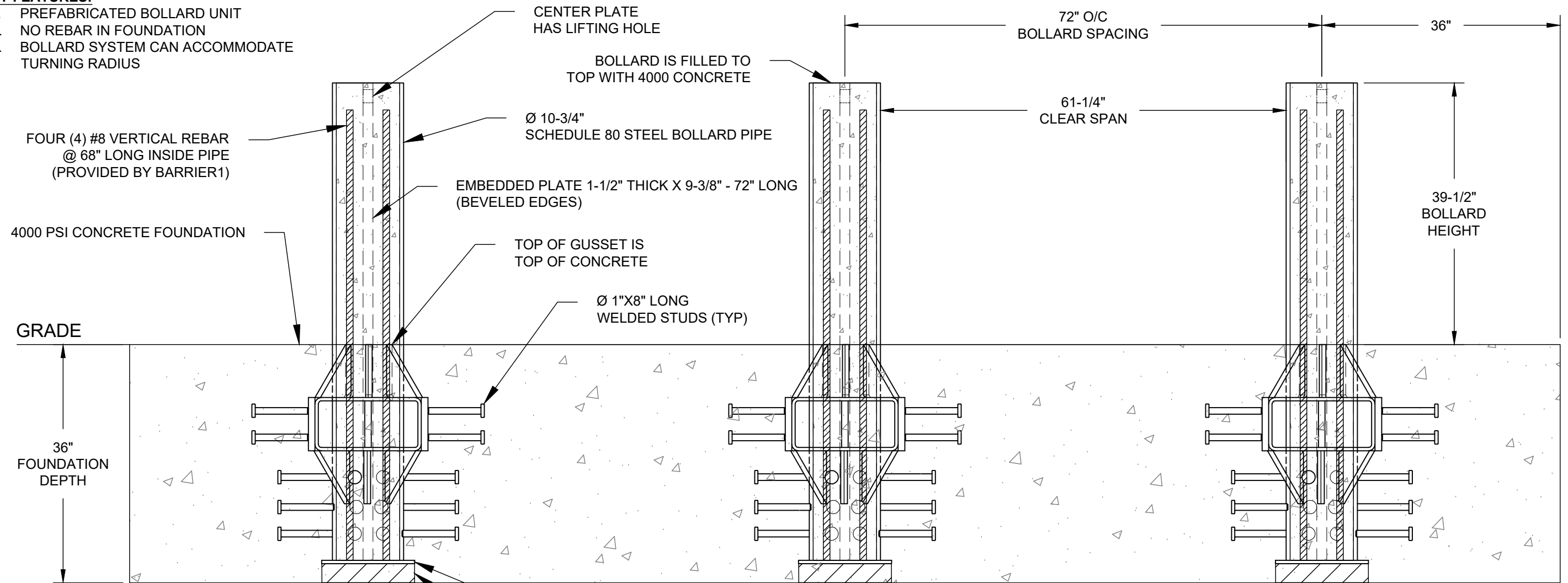
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## TYPICAL BOLLARD ARRAY INSTALLATION

**KEY FEATURES:**

1. PREFABRICATED BOLLARD UNIT
2. NO REBAR IN FOUNDATION
3. BOLLARD SYSTEM CAN ACCOMMODATE TURNING RADIUS



- NOTE:**
1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.

1/2" THICK 12" X 12" BASE PLATE WELDED TO BOTTOM OF BOLLARD  
 3" MASONRY BLOCKS OR CHAIRS TO ELEVATE BOLLARD STEEL OFF OF SUBGRADE



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ELEVATION VIEW (ARRAY)

SPB-1200 SUBMITTAL DRAWING

SHEET: 3 OF 6

20230227-10-M

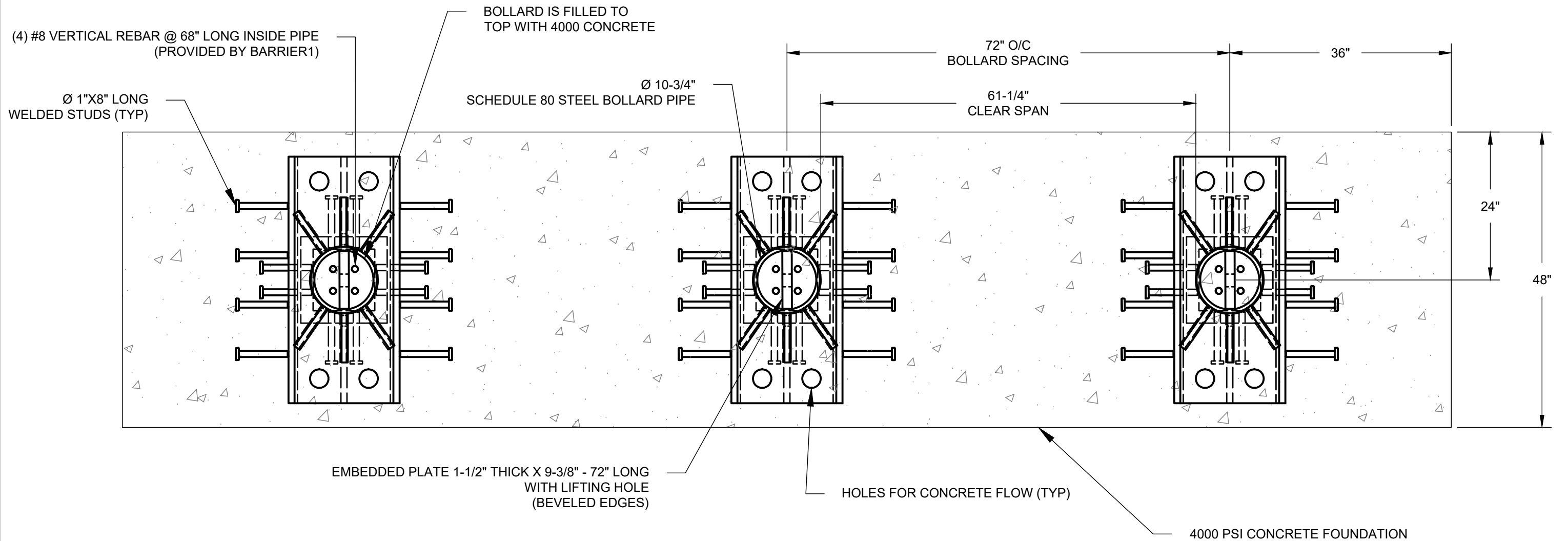
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## TYPICAL BOLLARD ARRAY INSTALLATION



**NOTE:**

1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



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PLAN VIEW  
 (ARRAY)

SPB-1200  
 SUBMITTAL DRAWING

SHEET: 4 OF 6

20230227-10-M

SCALE: N.T.S.

# B1 HERCULES M50

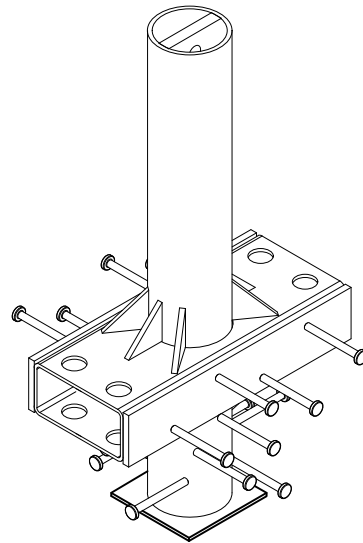
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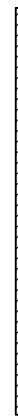
## MATERIALS PROVIDED

STANDARD FINISH:  
BLACK PAINT

### PREFABRICATED BOLLARD MATERIALS PROVIDED BY BARRIER1 SYSTEMS



(QTY 1) EACH:  
BOLLARD ASSEMBLY



PRE-CUT #8 REBAR  
@ 68" LONG  
QTY: FOUR (4) PER BOLLARD  
(INSIDE BOLLARD)

### MATERIALS PROVIDED BY INSTALLER

1. CONCRETE, 2.7 CUBIC YARDS PER BOLLARD
2. CHAIRS TO ELEVATE BOLLARDS ABOVE SUBGRADE



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MATERIALS PROVIDED

SPB-1200  
SUBMITTAL DRAWING

SHEET: 5 OF 6

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## INSTALLATION STEPS

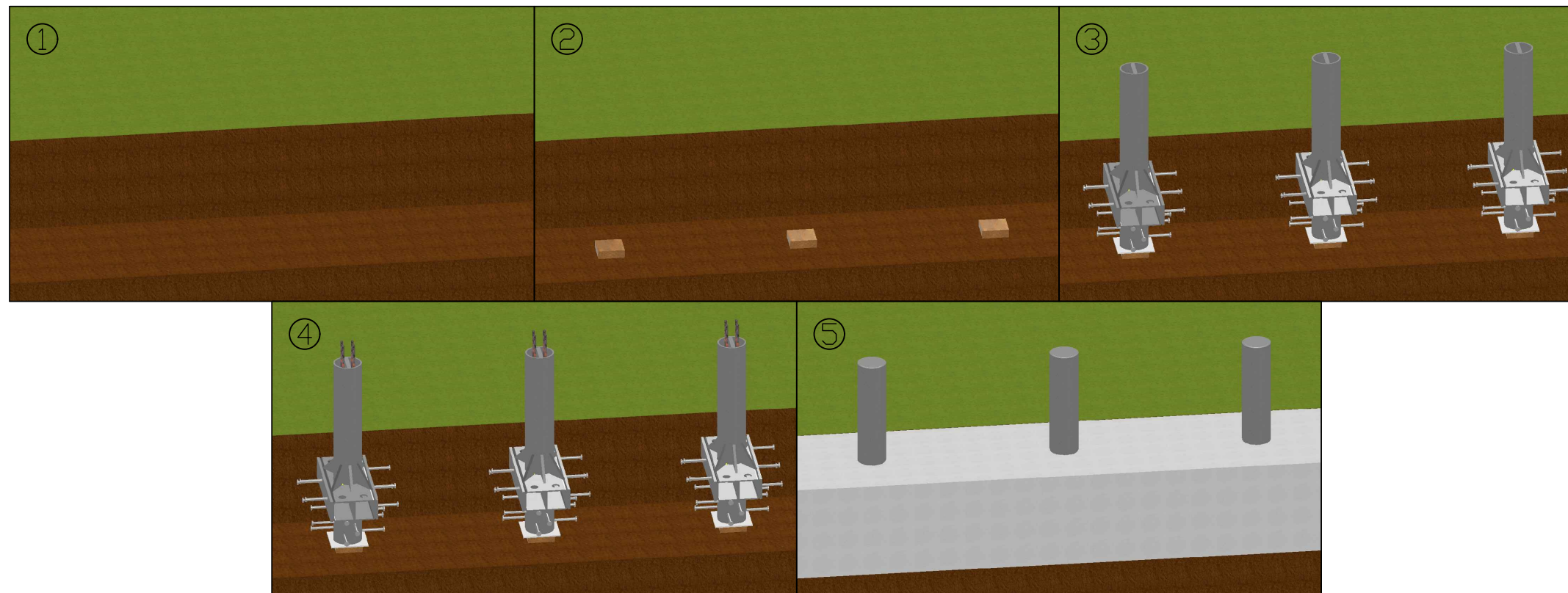
① EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.

② USE MASONRY BLOCK OR CHAIRS TO ELEVATE BOLLARD OFF SUBGRADE, SO THAT TOP OF GUSSET / SLEEVE IS SAME HEIGHT AS TOP OF CONCRETE.

③ PLACE PREFABRICATED BOLLARDS INTO EXCAVATION.

④ INSERT VERTICAL REBAR INTO BOLLARD TUBE.

⑤ FILL BOLLARD TUBE AND EXCAVATION WITH CONCRETE.



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INSTALLATION STEPS

SPB-1200  
SUBMITTAL DRAWING

SHEET: 6 OF 6

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