

B1 HERCULES M30

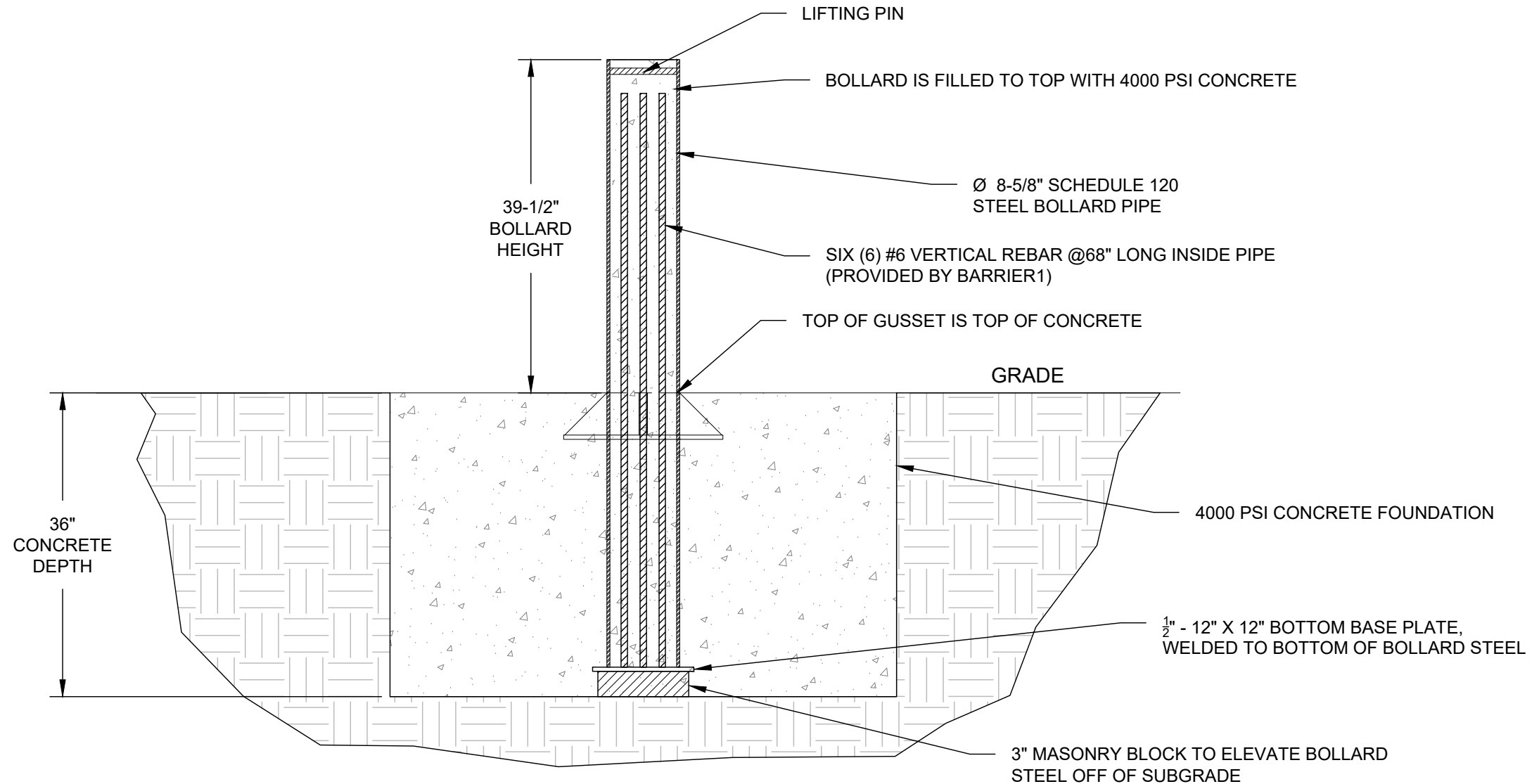
SET & POUR BOLLARD - MODEL SPB-400

CRASH TESTED TO ASTM F2656-07 - M30/P1 RATED - STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT

TYPICAL SINGLE BOLLARD INSTALLATION

KEY FEATURES:

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



BARRIER1 SYSTEMS, LLC

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ELEVATION VIEW
(STAND-ALONE)

SPB-400
SUBMITTAL DRAWING

SHEET: 1 OF 6

20230227-10-M

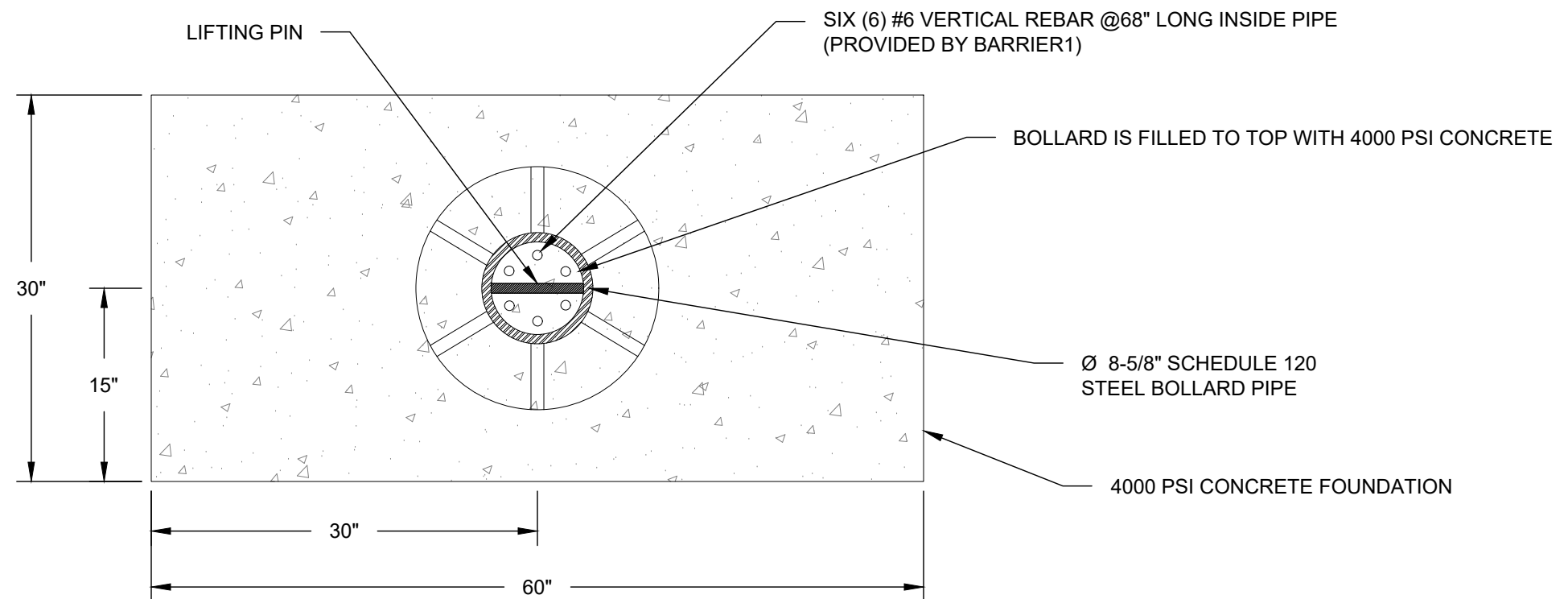
SCALE: N.T.S.

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PLAN VIEW
(STAND-ALONE)

SPB-400
SUBMITTAL DRAWING

SHEET: 2 OF 6

20230227-10-M

SCALE: N.T.S.

B1 HERCULES M30

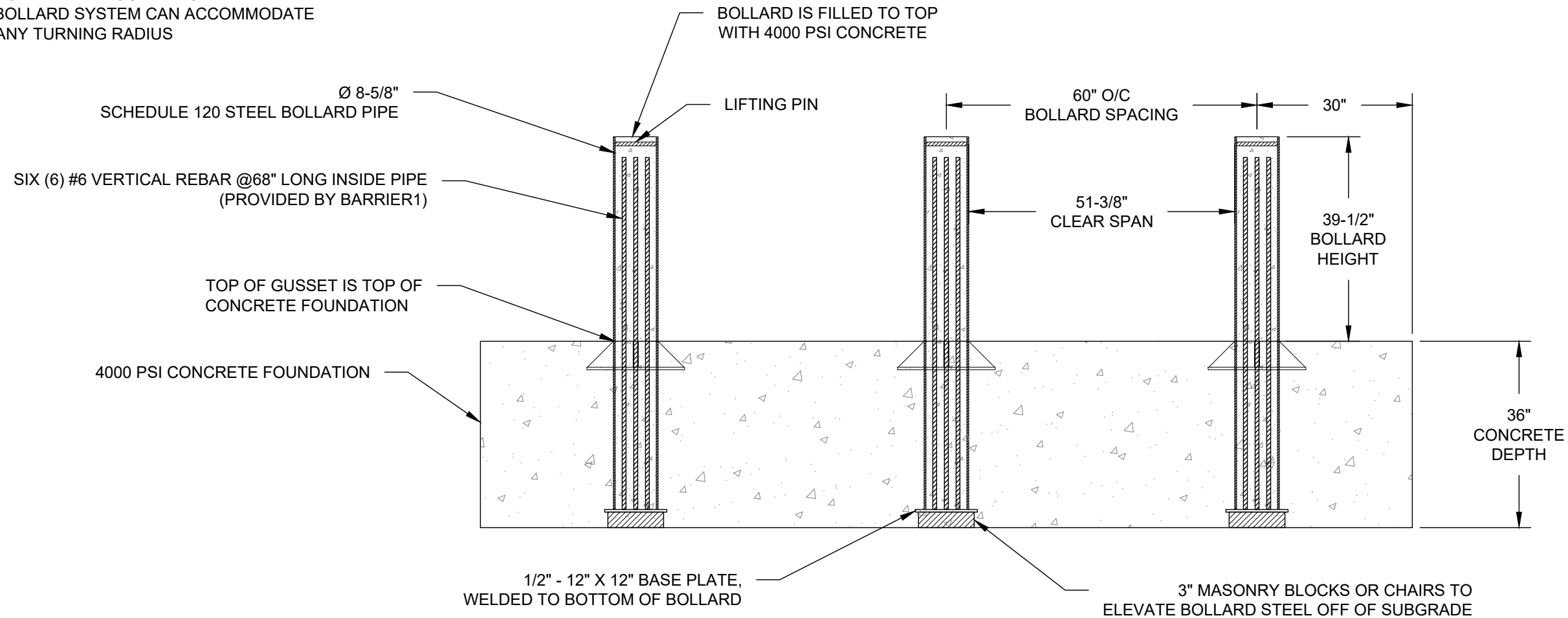
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TYPICAL BOLLARD ARRAY INSTALLATION

KEY FEATURES:

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



NOTE:

1. MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



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ELEVATION VIEW
(ARRAY)

SPB-400
SUBMITTAL DRAWING

SHEET: 3 OF 6

20230227-10-M

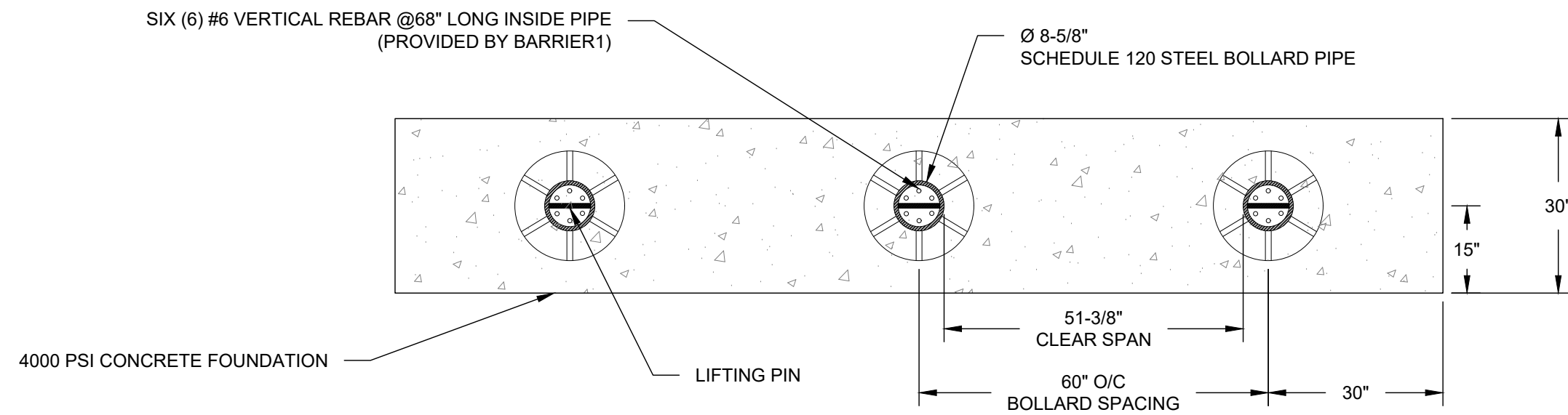
SCALE: N.T.S.

B1 HERCULES M30

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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-400
SUBMITTAL DRAWING

SHEET: 4 OF 6

20230227-10-M

SCALE: N.T.S.

B1 HERCULES M30

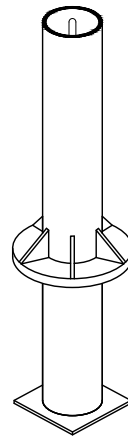
SET & POUR BOLLARD - MODEL SPB-400

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MATERIALS PROVIDED

PREFABRICATED BOLLARD MATERIALS PROVIDED BY BARRIER1 SYSTEMS

STANDARD FINISH:
BLACK PAINT



(QTY 1) EACH:
BOLLARD ASSEMBLY



(QTY 6) EACH:
PRE-CUT #6 VERTICAL REBAR
@ 68" LONG
(PLACED INSIDE BOLLARD)

MATERIALS PROVIDED BY INSTALLER

1. CONCRETE, ABOUT 1.5 CUBIC YARDS PER BOLLARD
2. MASONRY BLOCKS OR CHAIRS TO ELEVATE BOLLARDS OFF OF SUBGRADE



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MATERIALS
PROVIDED

SPB-400
SUBMITTAL DRAWING

SHEET: 5 OF 6

20230227-10-M

SCALE: N.T.S.

B1 HERCULES M30

SET & POUR BOLLARD - MODEL SPB-400

CRASH TESTED TO ASTM F2656-07 - M30/P1 RATED - STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT

INSTALLATION STEPS

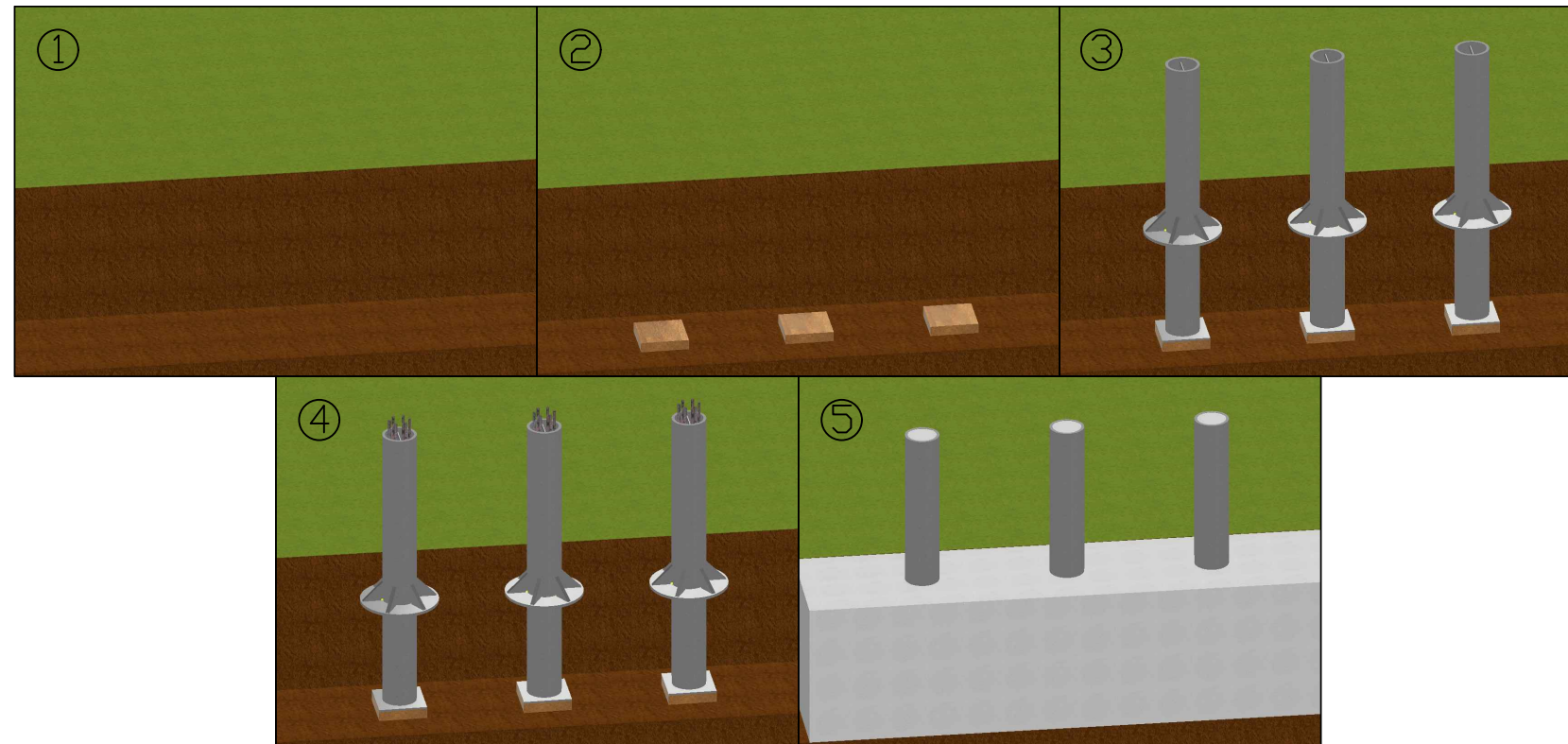
① EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.

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-400
SUBMITTAL DRAWING

SHEET: 6 OF 6

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SCALE: N.T.S.