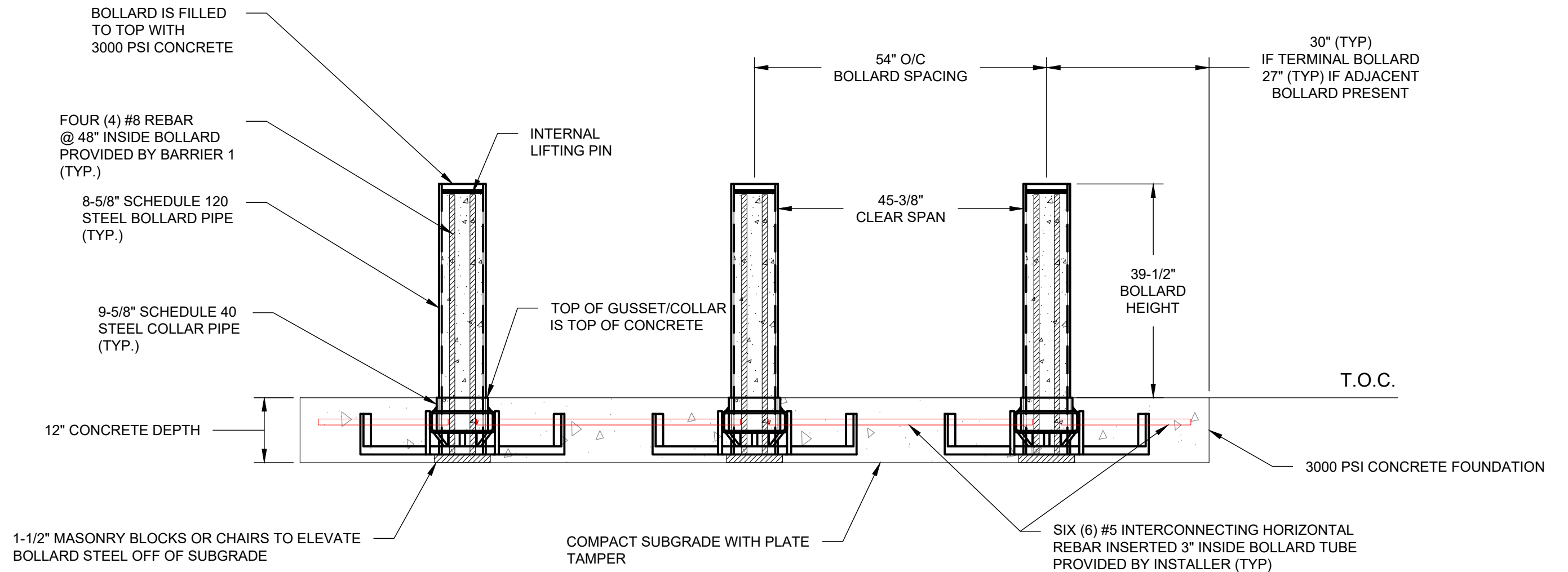


B1 HORNET M30

SHALLOW MOUNT BOLLARD - MODEL SMB-400 (FIXED)

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

TYPICAL BOLLARD ARRAY INSTALLATION



NOTE:
MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.



BARRIER1 SYSTEMS, LLC

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sales@barrier1.com

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ELEVATION VIEW

SMB-400
SUBMITTAL DRAWING

SHEET: 1 OF 4

20230227-10-M

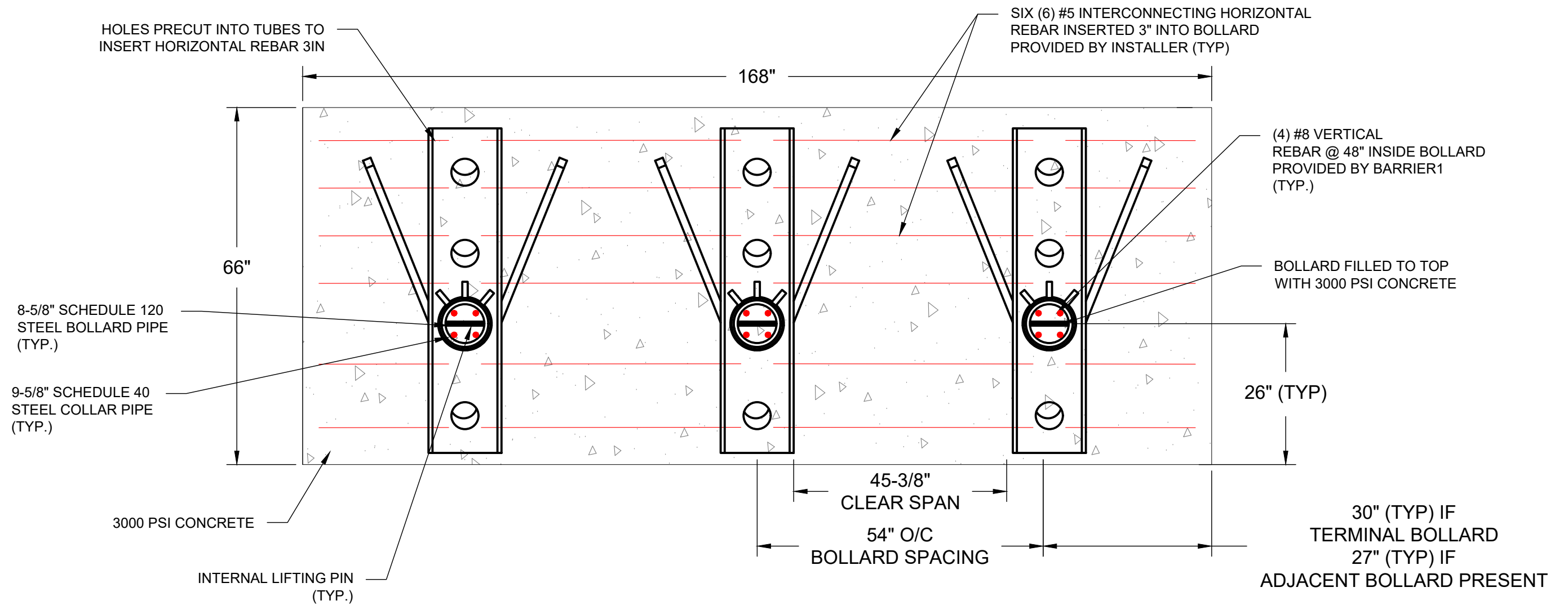
SCALE: N.T.S.

B1 HORNET M30

SHALLOW MOUNT BOLLARD - MODEL SMB-400 (FIXED)

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PLAN VIEW

SMB-400
SUBMITTAL DRAWING

SHEET: 2 OF 4

20230227-10-M

SCALE: N.T.S.

B1 HORNET M30

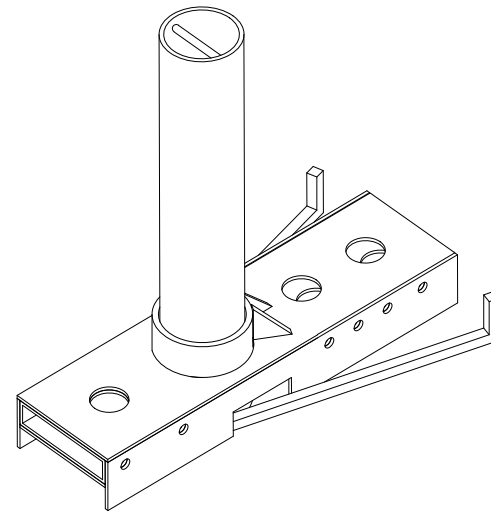
SHALLOW MOUNT BOLLARD - MODEL SMB-400 (FIXED)

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

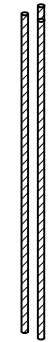
MATERIALS PROVIDED

MATERIALS PROVIDED BY BARRIER1 SYSTEMS

STANDARD FINISH:
BLACK PAINT



(1) EACH:
PREFABRICATED BOLLARD
WITH BASE STRUCTURE
(PRE-ASSEMBLED)



(4) EACH:
#8 VERTICAL REBAR
@ 48"

MATERIALS PROVIDED BY INSTALLATION CONTRACTOR:

1. ABOUT 1.0 CUBIC YARDS OF CONCRETE PER BOLLARD
2. SIX (6) #5 HORIZONTAL REBAR PER BOLLARD TO CONNECT ADJACENT BOLLARDS
3. MASONRY BRICKS OR CHAIRS TO ELEVATE BOLLARD STEEL OFF SUBGRADE



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MATERIALS
PROVIDED

SMB-400
SUBMITTAL DRAWING

SHEET: 3 OF 4

20230227-10-M

SCALE: N.T.S.

B1 HORNET M30

SHALLOW MOUNT BOLLARD - MODEL SMB-400 (FIXED)

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.

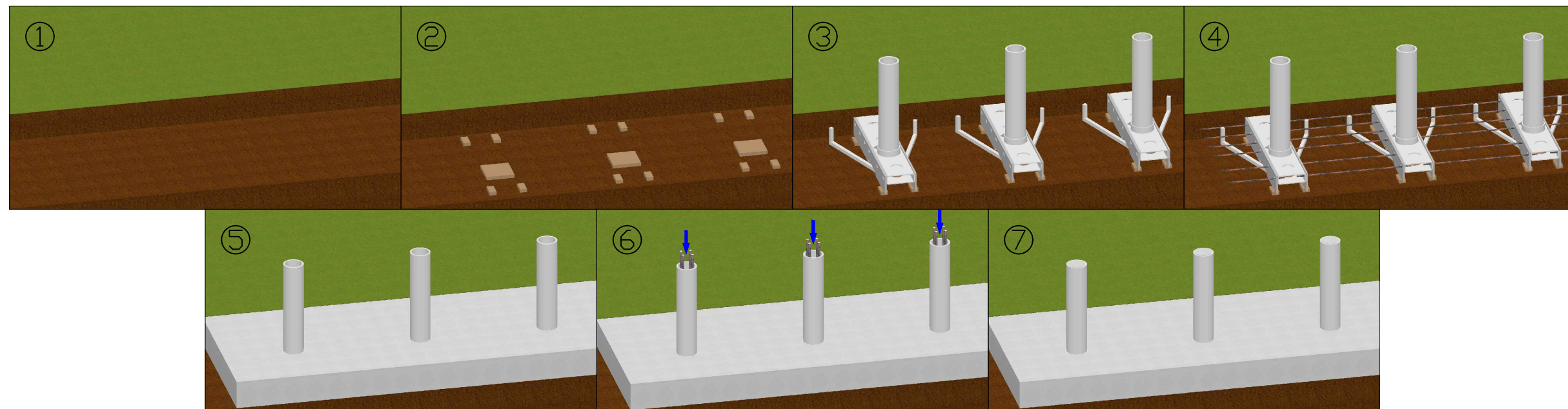
② USE MASONRY BLOCK OR CHAIRS TO ELEVATE BOLLARD OFF SUBGRADE, SO THAT TOP OF GUSSET / SLEEVE IS SAME HEIGHT AS TOP OF CONCRETE.

③ PLACE PREFABRICATED BOLLARDS INTO EXCAVATION.

④ INSERT #5 REBAR 3" INSIDE PREFABRICATED HOLES TO CONNECT BOLLARDS.

⑤ INSERT VERTICAL REBAR INTO BOLLARD TUBE.

⑥ FILL BOLLARD TUBE AND FOUNDATION WITH CONCRETE.



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INSTALLATION STEPS

SMB-400
SUBMITTAL DRAWING

SHEET: 4 OF 4

20230227-10-M

SCALE: N.T.S.