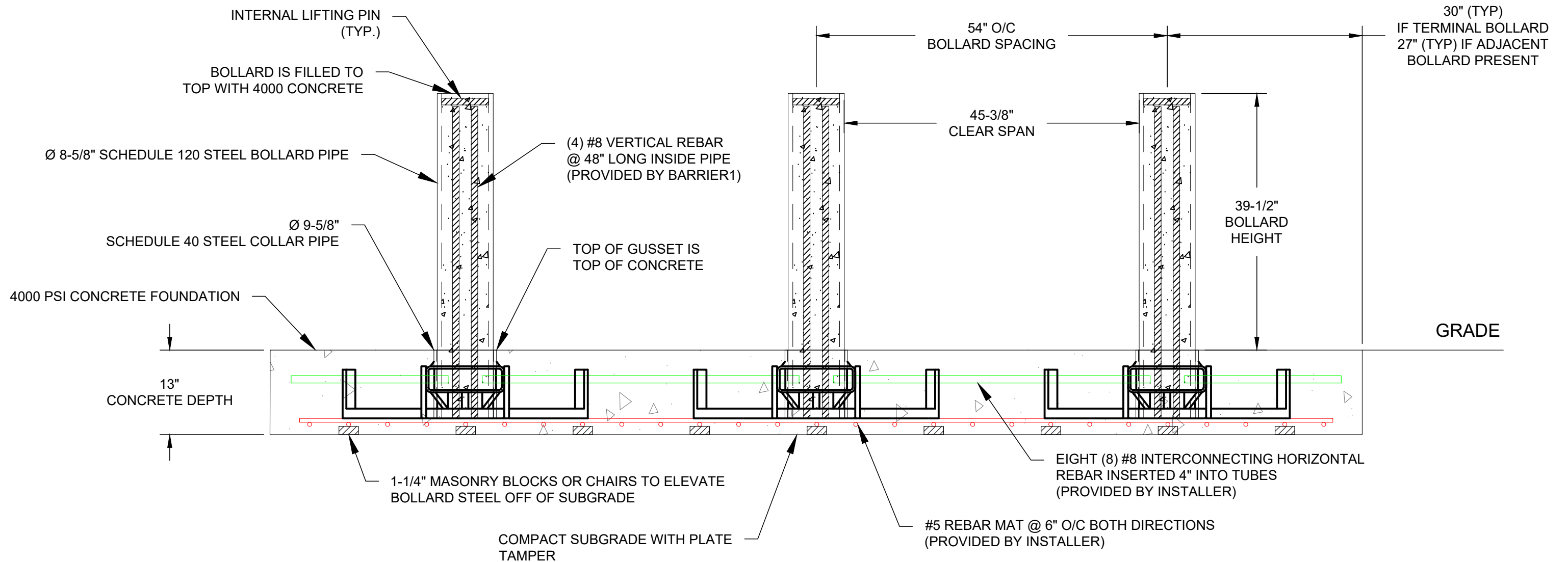


B1 HORNET M40

SHALLOW MOUNT BOLLARD - MODEL SMB-800

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



NOTE:
MODIFIED SPACING FOR SITE SPECIFIC CONDITIONS AVAILABLE.

BARRIER1 SYSTEMS, LLC

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ELEVATION VIEW

SMB-800
WEBSITE DRAWING

SHEET: 1 OF 4

20240409-10-W

SCALE: N.T.S.



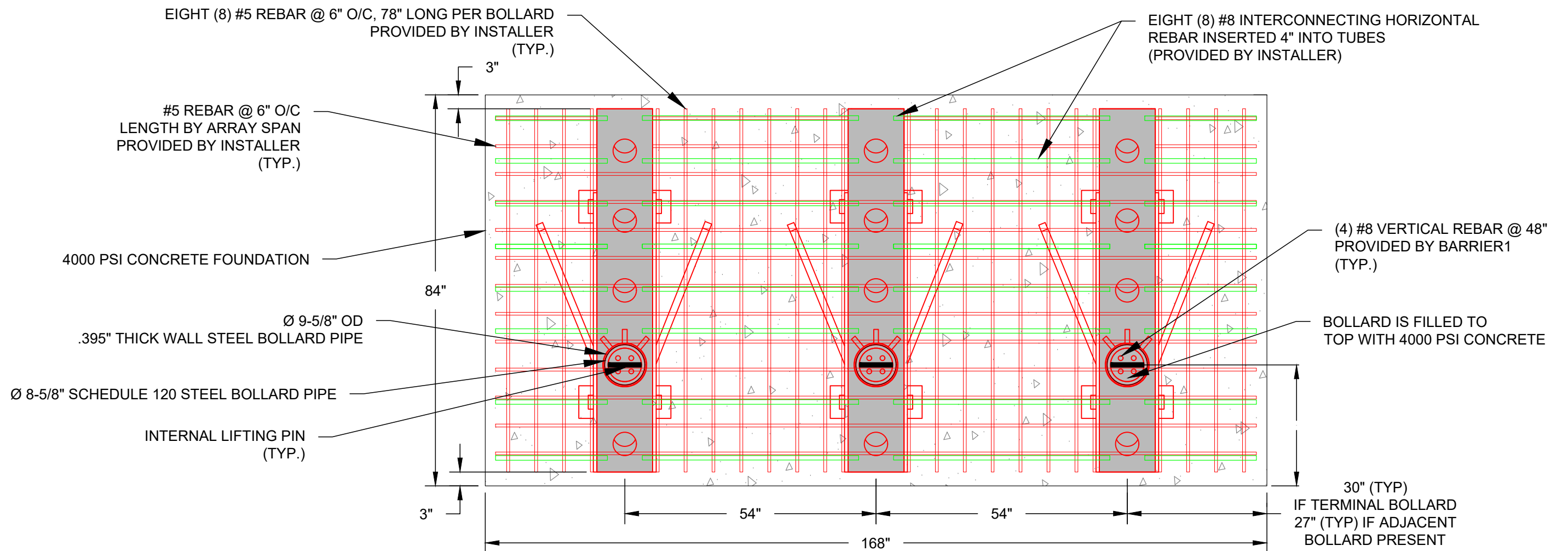
B1 HORNET M40

CP-PBES-2024-04-000

SHALLOW MOUNT BOLLARD - MODEL SMB-800

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

TYPICAL BOLLARD ARRAY INSTALLATION



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PLAN VIEW

SMB-800
WEBSITE DRAWING

SHEET: 2 OF 4

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SCALE: N.T.S.



B1 HORNET M40

CP-PBES-2024-04-000

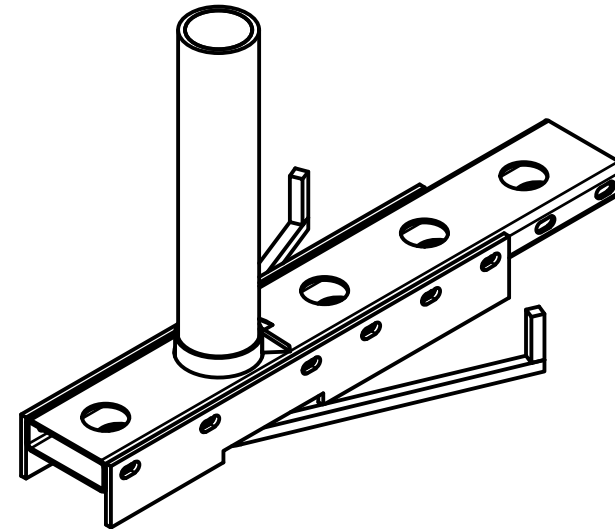
SHALLOW MOUNT BOLLARD - MODEL SMB-800

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

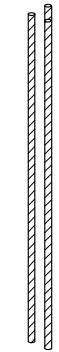
MATERIALS PROVIDED

STANDARD FINISH:
GLOSS BLACK PAINT

MATERIALS PROVIDED BY BARRIER1 SYSTEMS



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



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

MATERIALS PROVIDED BY INSTALLATION CONTRACTOR:

1. ABOUT 1.4 CUBIC YARDS OF 4,000 psi CONCRETE PER BOLLARD
2. #8 INTERCONNECTING REBAR THROUGH PREDRILLED HOLES IN BOLLARD
3. #5 HORIZONTAL REBAR @ 6" O/C BOTH DIRECTIONS
4. MASONRY BRICKS OR CHAIRS TO ELEVATE BOLLARD STEEL OFF SUBGRADE



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MATERIALS
PROVIDED

SMB-800
WEBSITE DRAWING

SHEET: 3 OF 4

20240409-10-W

SCALE: N.T.S.

B1 HORNET M40

SHALLOW MOUNT BOLLARD - MODEL SMB-800

CRASH TESTED TO ASTM F2656-07 - M40/P1 RATED - STOPS 15,000 LB. VEHICLE AT 40 MPH IMPACT

INSTALLATION STEPS

① EXCAVATE THEN TAMP SUBGRADE WITH PLATE TAMPER.

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

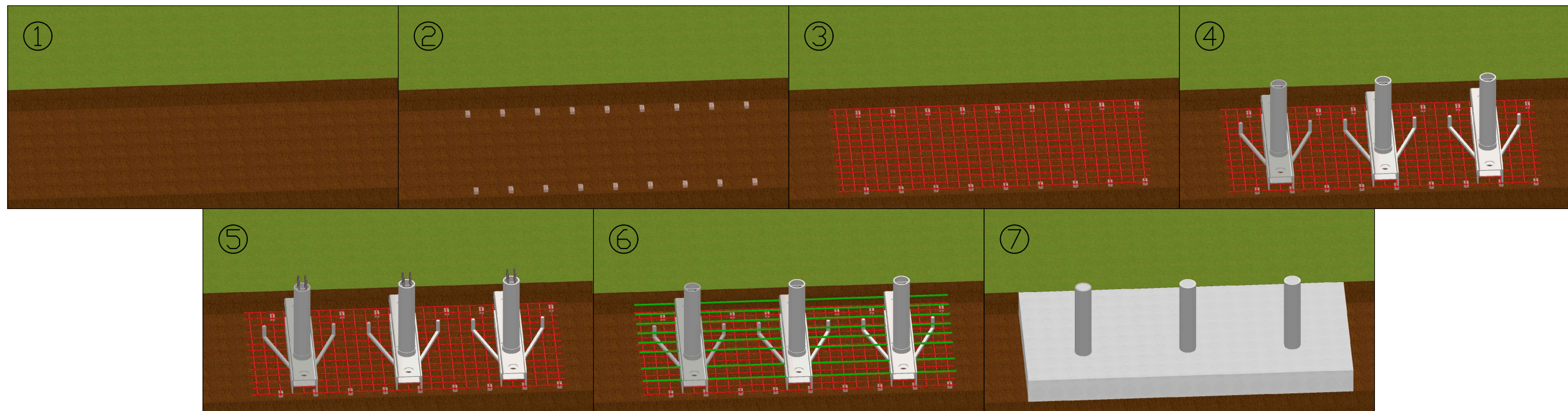
③ PLACE #5 REBAR MAT INTO EXCAVATION AT 6" O/C BOTH DIRECTIONS.

④ PLACE PREFABRICATED BOLLARD IN EXCAVATION ON #5 REBAR MAT.

⑤ INSERT #8 INTERCONNECTING REBAR 4" INTO BOLLARD FRAME TUBE.

⑥ INSERT #8 VERTICAL REBAR INTO BOLLARD PIPE.

⑦ FILL BOLLARD TUBE AND FOUNDATION WITH CONCRETE.



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INSTALLATION STEPS

SMB-800
WEBSITE DRAWING

SHEET: 4 OF 4

20240409-10-W

SCALE: N.T.S.