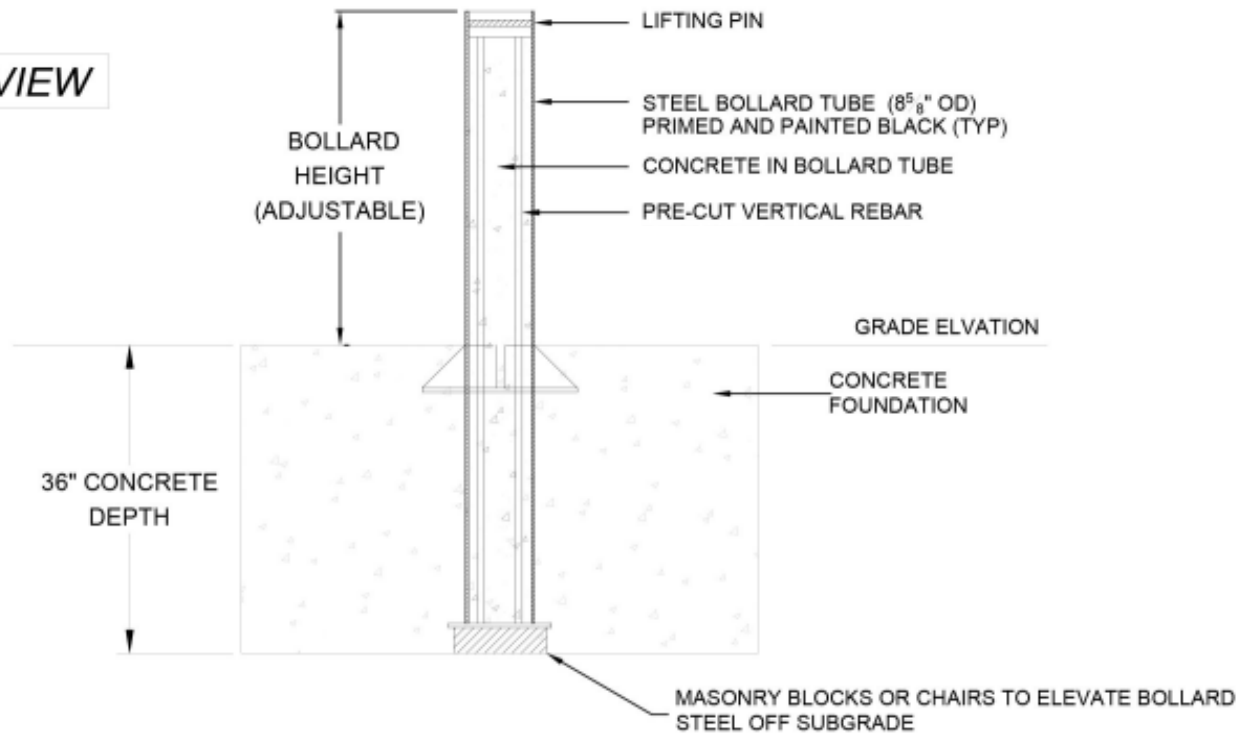


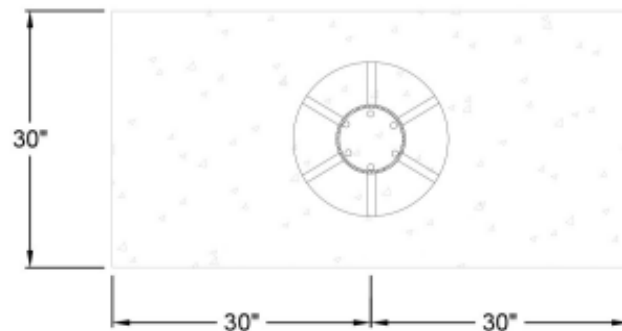
SET AND POUR BOLLARD - MODEL BCRAK4

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
 ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

FRONT VIEW



TOP VIEW



KEY CAPABILITIES

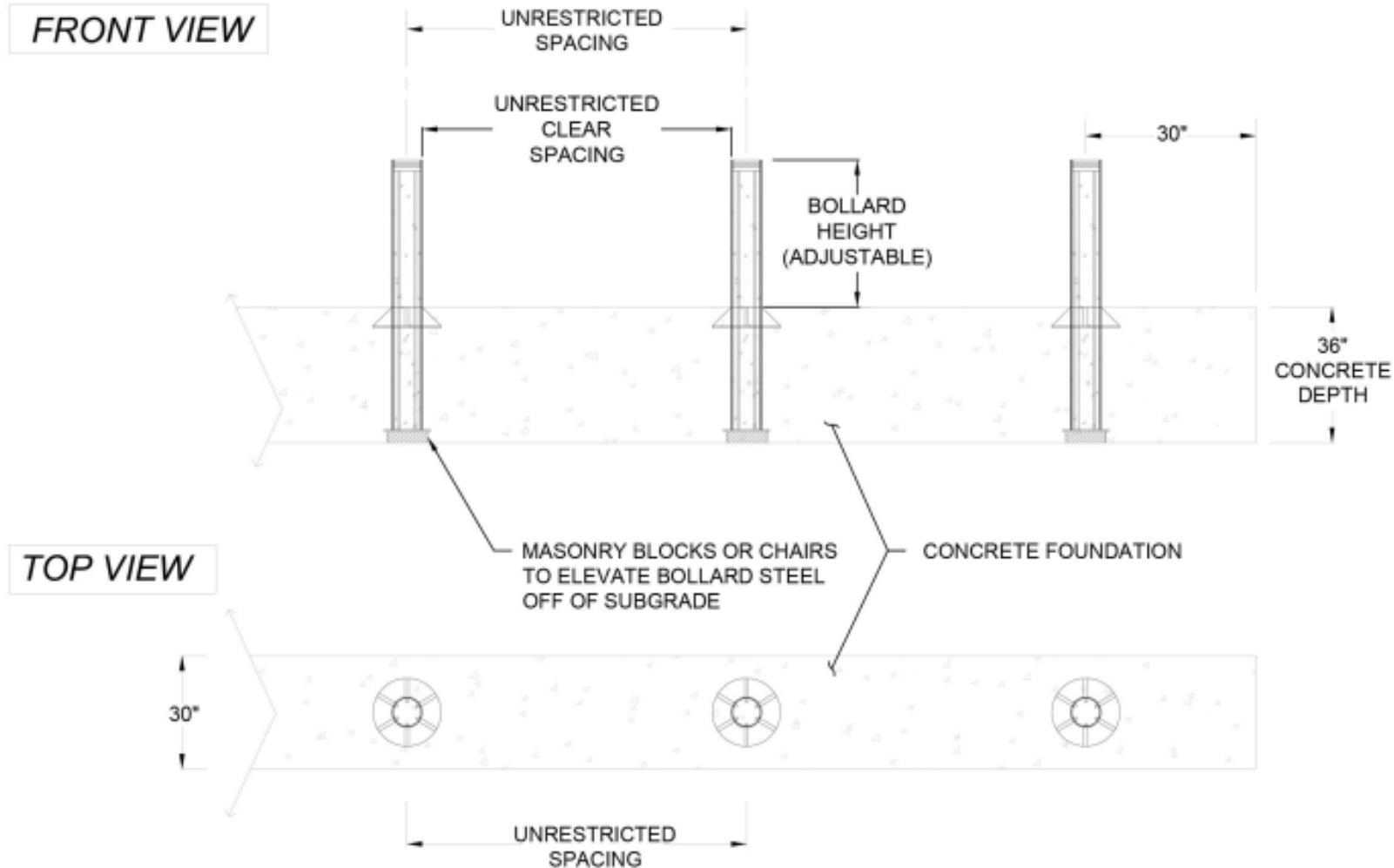
1. NO PLACING & TYING REBAR IN CONCRETE FOUNDATION. NO FIELD WELDING.
2. ONE (1) SINGLE PREFABRICATED BOLLARD UNIT, TO SET
3. QUICK INSTALLATION (EXCAVATE, THEN SET BOLLARD & POUR CONCRETE).
4. AVOIDS EXCAVATIONS BEING OPEN OVERNIGHT (SET & POUR BOLLARD ARRAY IN 1 DAY).
5. UNRESTRICTED BOLLARD SPACING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

SET AND POUR BOLLARD - MODEL BCRAMK4

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)

ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

TYPICAL BOLLARD ARRAY INSTALLATION



KEY CAPABILITIES

1. NO PLACING & TYING REBAR IN CONCRETE FOUNDATION. NO FIELD WELDING.
2. ONE (1) SINGLE PREFABRICATED BOLLARD UNIT.
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).



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TYPICAL ARRAY
ASTM M30(K4)
SET & POUR BOLLARD

SAMPLE DRAWINGS

SHEET: 2 OF 9

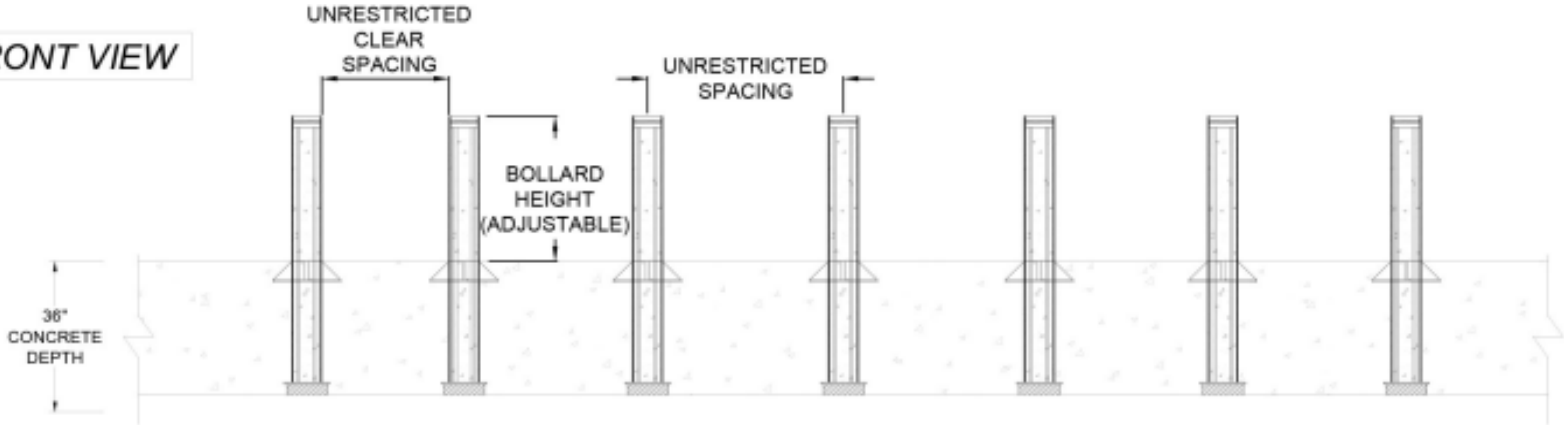
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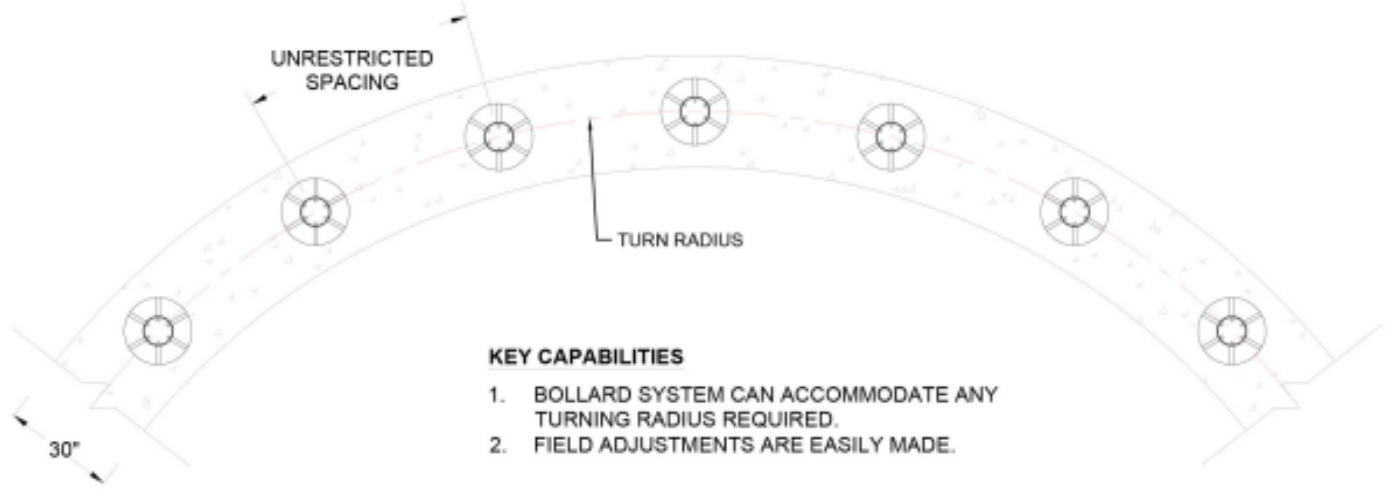
SET AND POUR BOLLARD - MODEL BCRAMK4
 STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
 ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

BOLLARD INSTALLATION WITH TURN

FRONT VIEW



TOP VIEW



KEY CAPABILITIES

1. BOLLARD SYSTEM CAN ACCOMMODATE ANY TURNING RADIUS REQUIRED.
2. FIELD ADJUSTMENTS ARE EASILY MADE.



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ARRAY ON CURVE
 ASTM M30(K4)
 SET & POUR BOLLARD

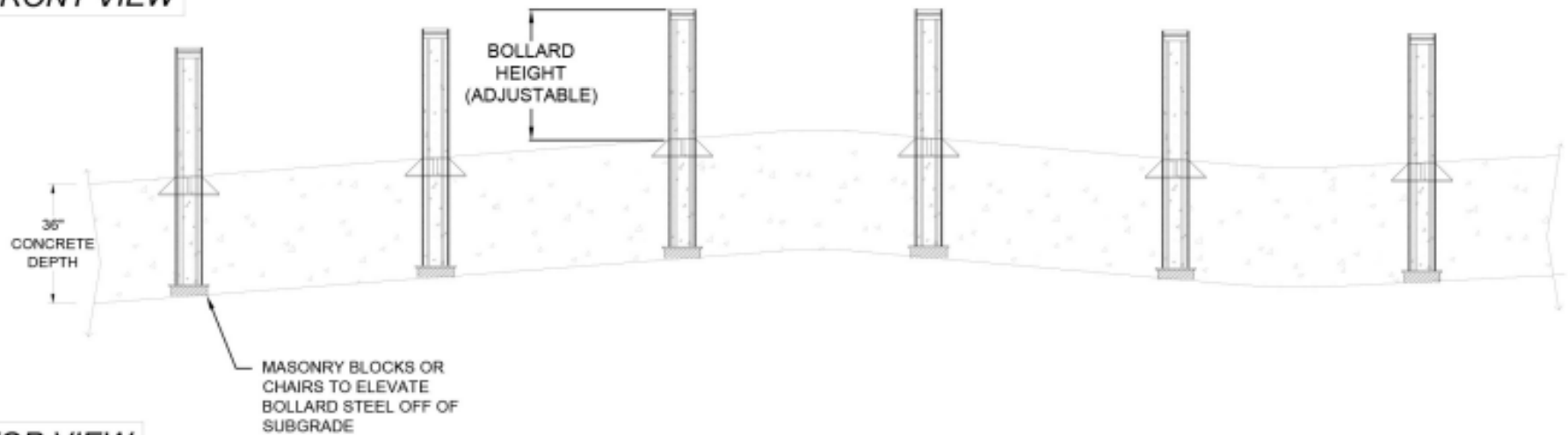
SAMPLE DRAWINGS

SET AND POUR BOLLARD - MODEL BCRAK4

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

BOLLARD INSTALLATION ACROSS GRADE CHANGES

FRONT VIEW



TOP VIEW

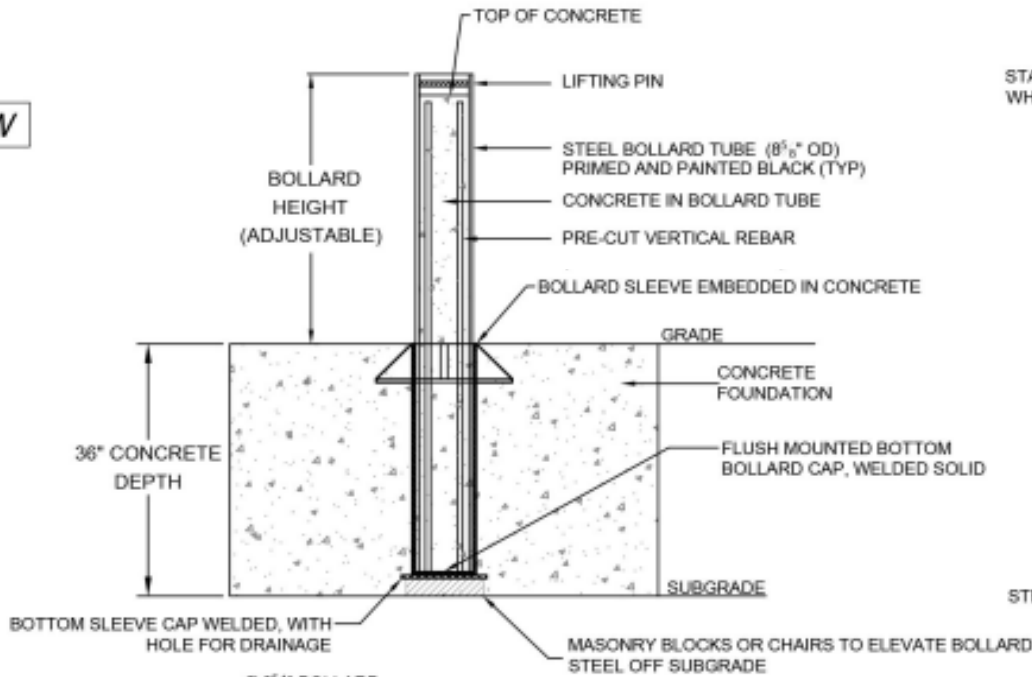


SET AND POUR BOLLARD - MODEL BCRAMK4

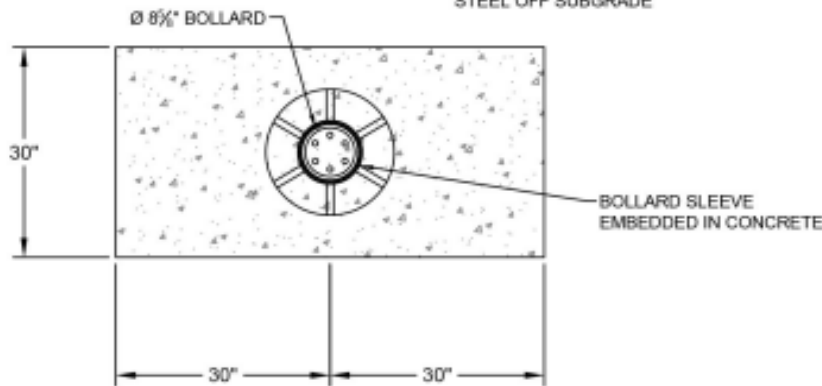
STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
 ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

REMOVABLE BOLLARD OPTION

FRONT VIEW

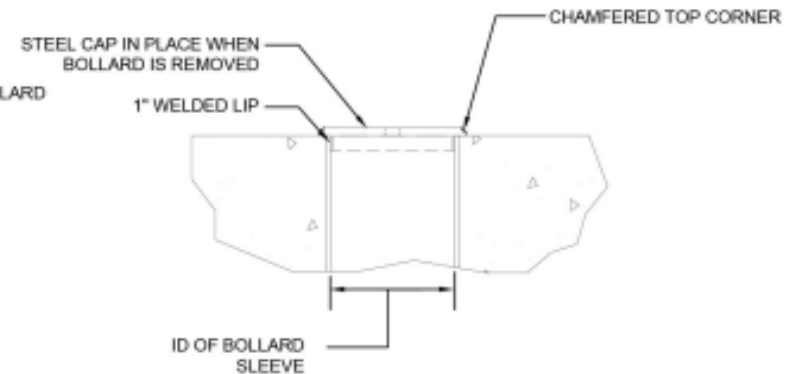
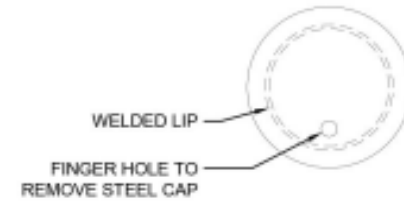


TOP VIEW



BOLLARD CAP DETAILS

STAINLESS STEEL CAP, USED WHEN BOLLARD IS REMOVED

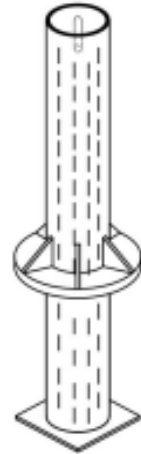


SET AND POUR BOLLARD - MODEL BCRAMK4

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)

ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

PREFABRICATED BOLLARD MATERIALS PROVIDED BY BARRIER1 SYSTEMS



(QTY 1) EACH:
BOLLARD TUBE



(QTY 6) EACH:
PRE-CUT VERTICAL REBAR
(INSIDE BOLLARD)



(QTY 1) EACH:
BOLLARD COVER

MATERIALS PROVIDED BY INSTALLER

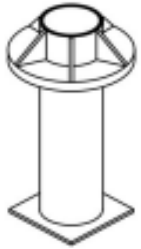
1. CONCRETE, 1.5 CUBIC YARDS PER BOLLARD
2. CHAIRS TO ELEVATE BOLLARDS ABOVE SUBGRADE

SET AND POUR BOLLARD - MODEL BCK4REMFIX036

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

REMOVABLE BOLLARDS

PREFABRICATED BOLLARD MATERIALS PROVIDED BY BARRIER1 SYSTEMS



(QTY 1) EACH:
BOLLARD SLEEVE



(QTY 1) EACH:
BOLLARD TUBE



(QTY 6) EACH:
PRE-CUT VERTICAL REBAR
(INSIDE BOLLARD)



(QTY 1) EACH:
BOLLARD SLEEVE CAP



(QTY 1) EACH:
BOLLARD COVER

MATERIALS PROVIDED BY INSTALLER

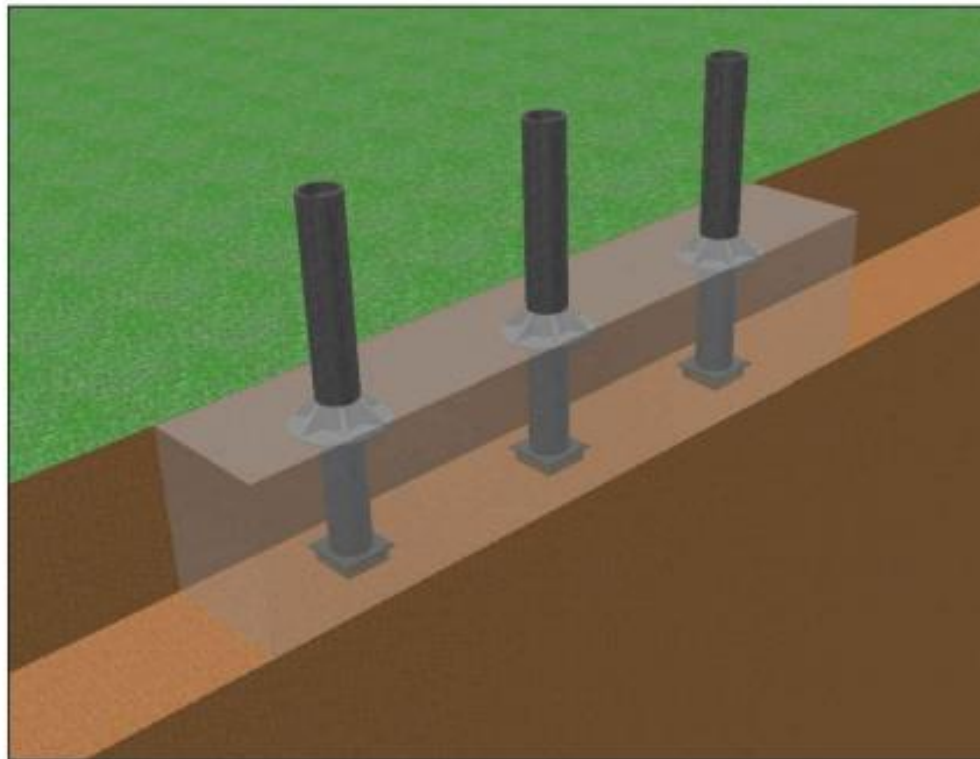
1. CONCRETE. 1.5 CUBIC YARDS PER BOLLARD.
2. CHAIRS TO ELEVATE BOLLARD ABOVE SUBGRADE

SET AND POUR BOLLARD - MODEL BCRAK4 - BCK4REMFIX036

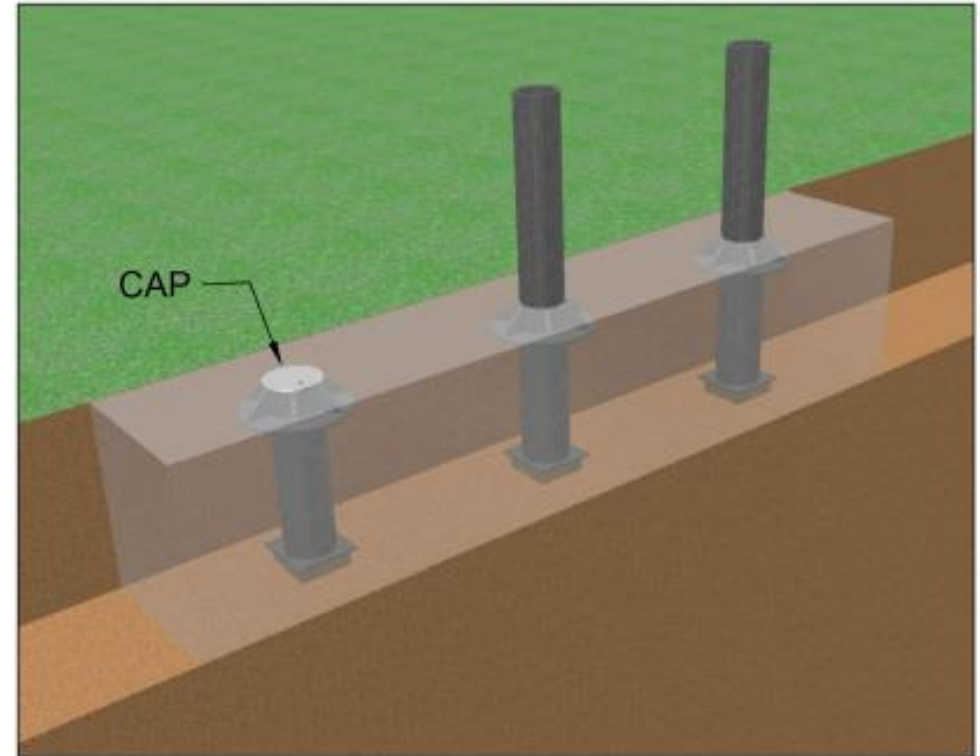
STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)

ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

FIXED BOLLARDS IN ARRAY



REMOVABLE BOLLARDS IN ARRAY



SET AND POUR BOLLARD - MODEL BCRAMK4

STOPS 15,000 LB. VEHICLE AT 30 MPH IMPACT (BOLLARD SPACING IS UNRESTRICTED)
ASTM F2656-07 M30(K4) CERTIFIED, APPROVED BY DoD AND ON ANTI-RAM LIST

BOLLARD COVER EXAMPLES - CUSTOM TYPES, SHAPES, SIZES AND COLORS ARE AVAILABLE

