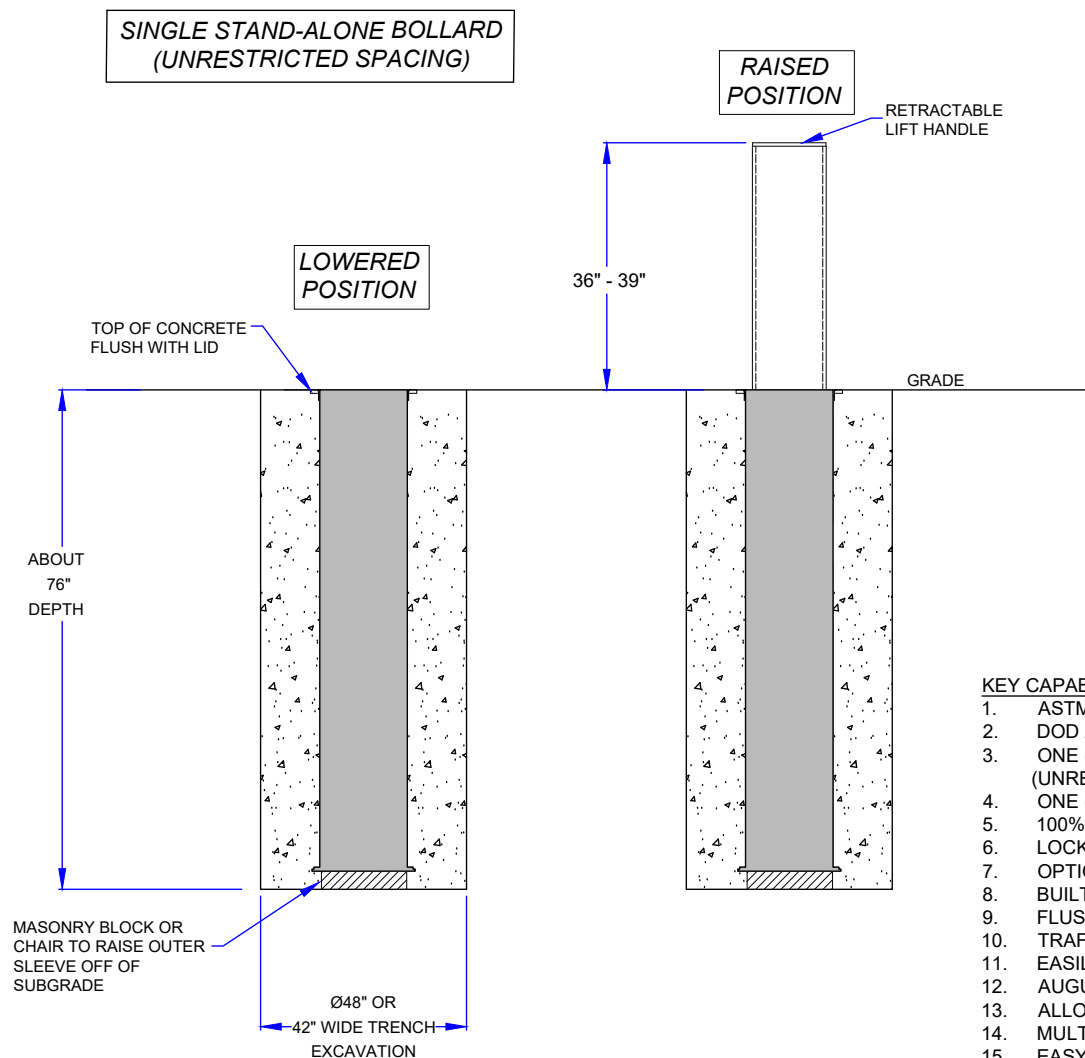


MANUAL RETRACTABLE BOLLARD - MODEL MRB-400 (PREFABRICATED SINGLE BOLLARD UNIT)

CRASH TESTED AND CERTIFIED TO STOP 15,000 LB. VEHICLE AT 30 MPH IMPACT ASTM F2656-07 M30-P1 (K4)

**PROPRIETARY AND CONFIDENTIAL
DO NOT COPY OR REPRODUCE
ALL RIGHTS RESERVED**



**ONLY 35 LBS
TO RAISE OR LOWER CRASH
RATED AND CERTIFIED BOLLARD**

KEY CAPABILITIES

1. ASTM M30 P1 (K4) CRASH RATED AND CERTIFIED.
2. DOD APPROVED AND LISTED ON ANTI-RAM VEHICLE BARRIER LIST.
3. ONE (1) SINGLE STAND-ALONE BOLLARD STOPS VEHICLE IMPACT (UNRESTRICTED BOLLARD SPACING)
4. ONE (1) PERSON RAISES AND RETRACTS BOLLARD WITH LESS THAN 35 LBS.
5. 100% STAINLESS STEEL OR HOT DIP GALVANIZED COMPONENTS (NON-RUSTING)
6. LOCKABLE IN THE RAISED OR LOWERED POSITION.
7. OPTIONAL HEAT TRACE WITH AUTO THERMOSTAT IN COLD WEATHER REGIONS.
8. BUILT IN DRILL PUMP TO REMOVE WATER SEEPING INSIDE.
9. FLUSH WITH PAVEMENT WHEN LOWERED.
10. TRAFFIC RATED FOR HEAVY TRUCK LOADS.
11. EASILY INSTALLED AND DELIVERED PREFABRICATED AND PREASSEMBLED.
12. AUGURED HOLE OR CONTINUOUS EXCAVATION FOR CONCRETE FOUNDATION (OPTIONS).
13. ALLOWS FOR FIELD ADJUSTMENTS DURING INSTALLATION
14. MULTI-DIRECTIONAL STOPPING CAPABILITY.
15. EASY TO INSTALL WITH TURNS AND ACROSS GRADE ELEVATION CHANGES.
16. DRAWINGS, SUBMITTALS, ENGINEERING SUPPORT AND INSTALLATION SUPPORT ARE INCLUDED.



BARRIER1 SYSTEMS

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(336) 617-8478 (336) 617-8471 FAX
mlamore@barrier1.us www.barrier1.us

PATENT PENDING

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE
PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY
PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS,
INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

MANUAL
RETRACTABLE
BOLLARD

WEBSITE
DRAWING

SHEET: 1 OF 5

20210324-01-PD

SCALE: N.T.S.

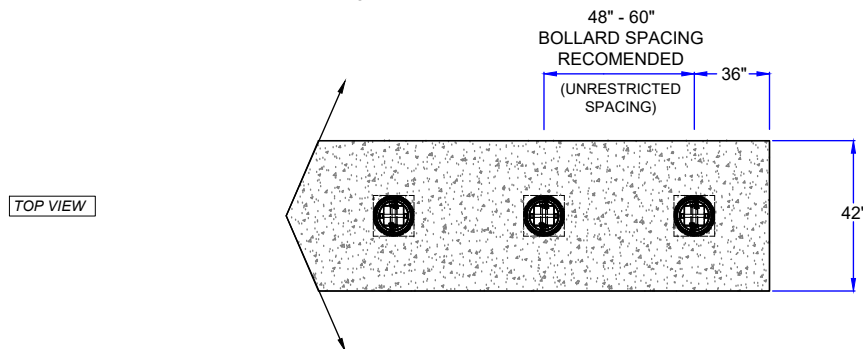
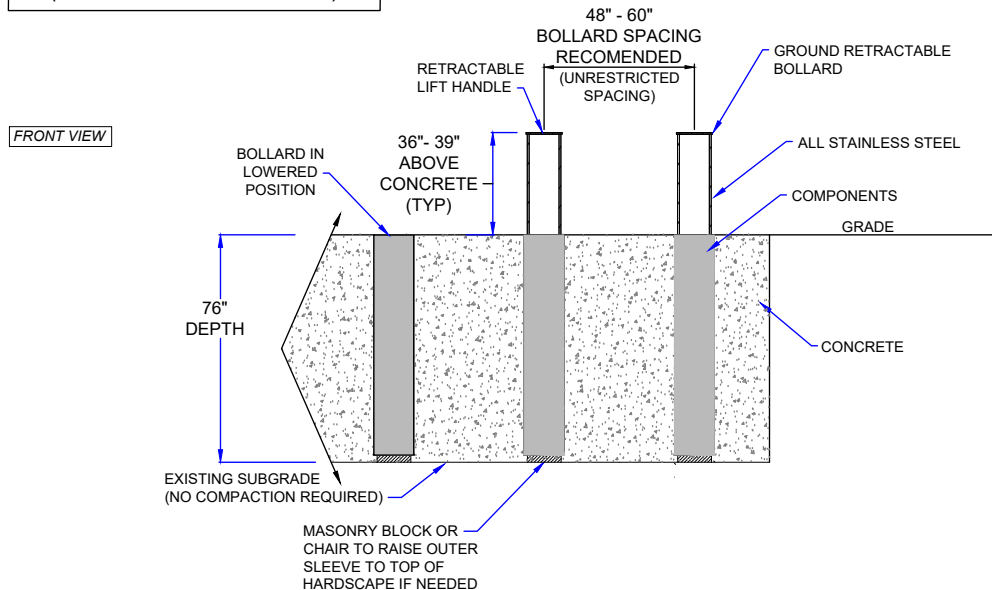
MANUAL RETRACTABLE BOLLARD - MODEL MRB-400 (PREFABRICATED SINGLE BOLLARD UNIT)

CRASH TESTED AND CERTIFIED TO STOP 15,000 LB. VEHICLE AT 30 MPH IMPACT ASTM F2656-07 M30-P1 (K4)

BOLLARD ARRAY WITH CONTINUOUS FOOTING

**PROPRIETARY AND CONFIDENTIAL
DO NOT COPY OR REPRODUCE
ALL RIGHTS RESERVED**

SINGLE STAND-ALONE BOLLARD (UNRESTRICTED SPACING)



**ONLY 35 LBS
TO RAISE OR LOWER CRASH
RATED AND CERTIFIED BOLLARD**

KEY CAPABILITIES

1. ASTM M30 P1 (K4) CRASH RATED AND CERTIFIED.
2. DOD APPROVED AND LISTED ON ANTI-RAM VEHICLE BARRIER LIST.
3. ONE (1) SINGLE STAND-ALONE BOLLARD STOPS VEHICLE IMPACT (UNRESTRICTED BOLLARD SPACING)
4. ONE (1) PERSON RAISES AND RETRACTS BOLLARD WITH LESS THAN 35 LBS.
5. 100% STAINLESS STEEL OR HOT DIP GALVANIZED COMPONENTS (NON-RUSTING)
6. LOCKABLE IN THE RAISED OR LOWERED POSITION.
7. OPTIONAL HEAT TRACE WITH AUTO THERMOSTAT IN COLD WEATHER REGIONS.
8. BUILT IN DRILL PUMP TO REMOVE WATER SEEPING INSIDE.
9. FLUSH WITH PAVEMENT WHEN LOWERED.
10. TRAFFIC RATED FOR HEAVY TRUCK LOADS.
11. EASILY INSTALLED AND DELIVERED PREFABRICATED AND PREASSEMBLED.
12. AUGURED HOLE OR CONTINUOUS EXCAVATION FOR CONCRETE FOUNDATION (OPTIONS).
13. ALLOWS FOR FIELD ADJUSTMENTS DURING INSTALLATION
14. MULTI-DIRECTIONAL STOPPING CAPABILITY.
15. EASY TO INSTALL WITH TURNS AND ACROSS GRADE ELEVATION CHANGES.
16. DRAWINGS, SUBMITTALS, ENGINEERING SUPPORT AND INSTALLATION SUPPORT ARE INCLUDED.



BARRIER1 SYSTEMS

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(336) 617-8478 (336) 617-8471 FAX
mlamore@barrier1.us www.barrier1.us

PATENT PENDING

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE
PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY
PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS,
INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

MANUAL
RETRACTABLE
BOLLARD

WEBSITE
DRAWING

SHEET: 2 OF 5

20210324-01-PD

SCALE: N.T.S.

MANUAL RETRACTABLE BOLLARD - MODEL MRB-400 (PREFABRICATED SINGLE BOLLARD UNIT)

CRASH TESTED AND CERTIFIED TO STOP 15,000 LB. VEHICLE AT 30 MPH IMPACT ASTM F2656-07 M30-P1 (K4)

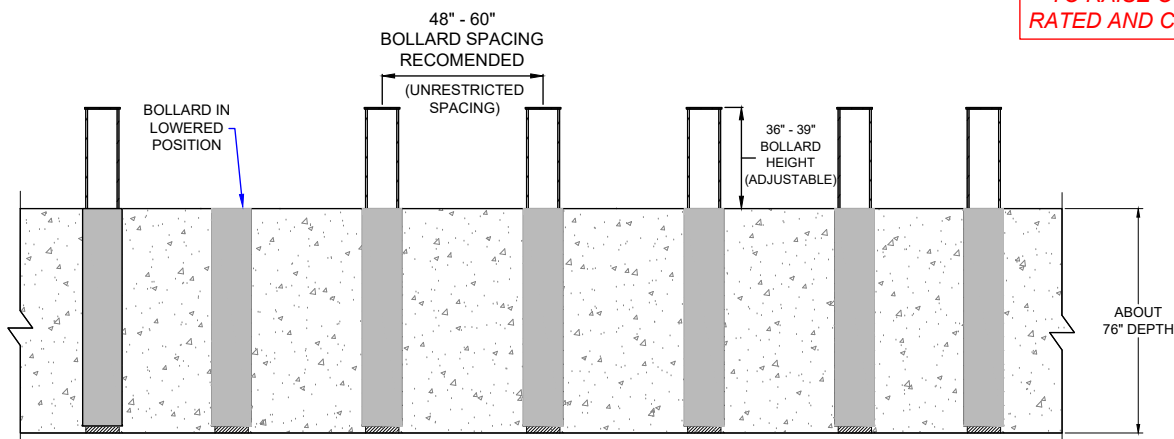
SINGLE STAND-ALONE BOLLARD
(UNRESTRICTED SPACING)

BOLLARD ARRAY WITH TURN

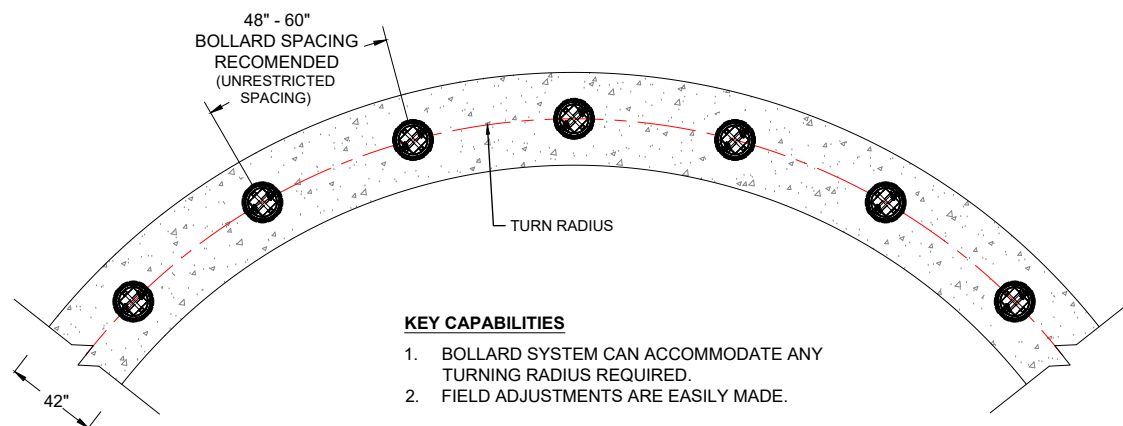
PROPRIETARY AND CONFIDENTIAL
DO NOT COPY OR REPRODUCE
ALL RIGHTS RESERVED

ONLY 35 LBS
TO RAISE OR LOWER CRASH
RATED AND CERTIFIED BOLLARD

FRONT VIEW



TOP VIEW



KEY CAPABILITIES

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



BARRIER1 SYSTEMS

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(336) 617-8478 (336) 617-8471 FAX
mlamore@barrier1.us www.barrier1.us

PATENT PENDING

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE
PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY
PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS,
INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

MANUAL
RETRACTABLE
BOLLARD

WEBSITE
DRAWING

SHEET: 3 OF 5

20210324-01-PD

SCALE: N.T.S.

MANUAL RETRACTABLE BOLLARD - MODEL MRB-400 (PREFABRICATED SINGLE BOLLARD UNIT)

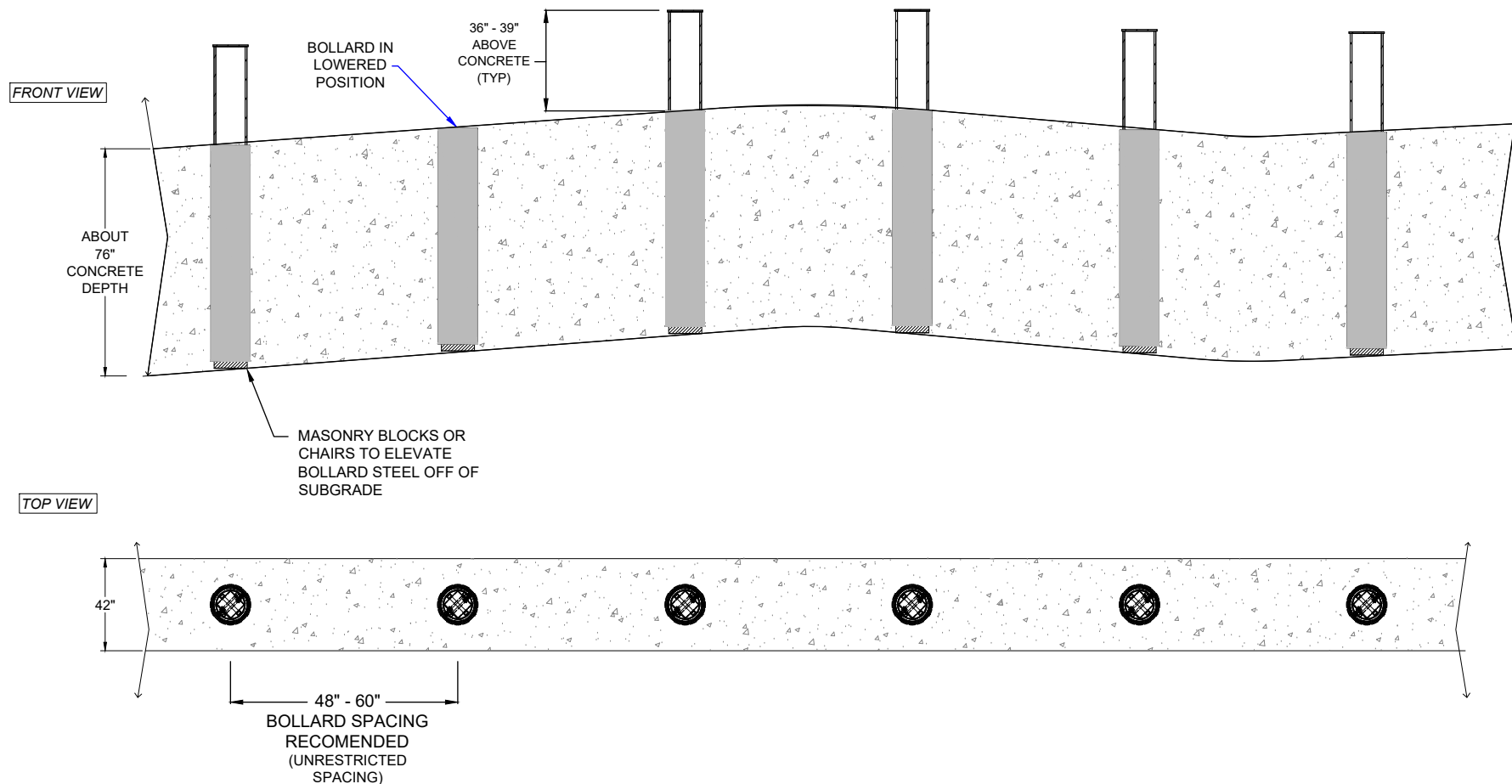
CRASH TESTED AND CERTIFIED TO STOP 15,000 LB. VEHICLE AT 30 MPH IMPACT ASTM F2656-07 M30-P1 (K4)

BOLLARD INSTALLATION ACROSS GRADE CHANGES

PROPRIETARY AND CONFIDENTIAL
DO NOT COPY OR REPRODUCE
ALL RIGHTS RESERVED

SINGLE STAND-ALONE BOLLARD
(UNRESTRICTED SPACING)

ONLY 35 LBS
TO RAISE OR LOWER CRASH
RATED AND CERTIFIED BOLLARD



BARRIER1 SYSTEMS

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(336) 617-8478 (336) 617-8471 FAX
mlamore@barrier1.us www.barrier1.us

PATENT PENDING

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE
PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY
PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS,
INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

MANUAL
RETRACTABLE
BOLLARD

WEBSITE
DRAWING

SHEET: 4 OF 5

20210324-01-PD

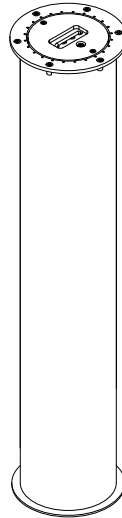
SCALE: N.T.S.

MANUAL RETRACTABLE BOLLARD - MODEL MRB-400 (PREFABRICATED SINGLE BOLLARD UNIT)

CRASH TESTED AND CERTIFIED TO STOP 15,000 LB. VEHICLE AT 30 MPH IMPACT ASTM F2656-07 M30-P1 (K4)

MATERIALS PROVIDED BY BARRIER 1

1 SINGLE PREFABRICATED AND PRE-ASSEMBLED RETRACTABLE BOLLARD.
READY TO SET AND POUR CONCRETE



SINGLE STAND-ALONE BOLLARD
(UNRESTRICTED SPACING)

**PROPRIETARY AND CONFIDENTIAL
DO NOT COPY OR REPRODUCE
ALL RIGHTS RESERVED**

**ONLY 35 LBS
TO RAISE OR LOWER CRASH
RATED AND CERTIFIED BOLLARD**

PROVIDED BY INSTALLER

1. ABOUT 4 C.Y. CONCRETE PER BOLLARD.
2. CHAIRS OR MASONRY BLOCKS TO ELEVATE BOLLARD OFF SUBGRADE.



BARRIER1 SYSTEMS

8015 THORNDIKE ROAD
GREENSBORO, NC 27409
(336) 617-8478 (336) 617-8471 FAX
mlamore@barrier1.us www.barrier1.us

PATENT PENDING

THE DRAWINGS AND INFORMATION CONTAINED HEREIN ARE
PROPRIETARY AND CONFIDENTIAL AND FOR USE BY ONLY
PERSONS WORKING ON PROJECT WITH BARRIER1 SYSTEMS,
INC. DO NOT COPY OR REPRODUCE. ALL RIGHTS RESERVED.

MANUAL
RETRACTABLE
BOLLARD

WEBSITE
DRAWING

SHEET: 5 OF 5

20210324-01-PD

SCALE: N.T.S.