

Diagram illustrating the placement of a bollard relative to a curb and sidewalk:

- Top View:** Shows a cross-section of the curb and sidewalk. A bollard is placed 6" from the curb. The curb is labeled "CURB" and the sidewalk is labeled "SIDEWALK". A note indicates "SEALANT & 1/2" EXP. JOINT FILLER WHERE WALK ABUTS CURB & EVERY 30' ALONG WALK." The curb size is noted as "CURB SIZE OF SIDEWALK".
- Bottom View:** Shows a top-down view of the bollard placement. The bollard is positioned 12" from the curb on both sides and 12" from the sidewalk edge. A note indicates "LOCATE BOLLARD 6" FROM CURB-SIDE WALK EDGE".
- Bottom View Details:** The bollard is shown as a circle. The distance from the curb to the bollard is 12" on both sides. The distance from the bollard to the sidewalk edge is 12". A note indicates "EXTEND 48" DEEP CONCRETE AWAY FROM BOLLARD A MINIMUM OF 12" IN THREE DIRECTIONS".

**3" FIXED TRAFFIC BOLLARD**

**DETAIL**  
**4" CONCRETE**

STANDARD BLUE BOLLARD  
SLEEVE WITH REFLECTIVE VEA  
LOGO TO MATCH EXISTING

STANDARD SCH 80 GALV. 8"  
PIPE  
PORT BARRICADE - CONCRETE  
FILLED MINIMUM 36" ABOVE  
GRADE

THICK CONCRETE  
"SWALL" ROOM  
SH SO AS NOT TO  
POOL WATER

REINFORCE BY  
FILLING BODY WITH  
CONCRETE

1" RIGID INSULATION  
(OVER 1-MIL VAPOR  
BARRIER)

6 X 6 10 TO W/M

CONCRETE BACKFILL  
48" DEEP TRENCH SET  
AND BRACE  
BOLLARDS PLUMB  
AND A MINIMUM 48"  
APART IN TRENCH

SET BOLLARD A MINIMUM  
36" BELOW GRADE

SECURITY AND PERIMETER FENCE		
PARTS PER SECTION		
ITEM		QTY
1	000-48 PICKET	13
2	70-1/2" - 13 HOLE IND. STRINGER	2
3	2-1/2" POST	2
4	2-1/2" ALUMINUM POST CAP	2
5	70-1/2" - 13 HOLE IND. HEADER	1

The drawing consists of two parts: a side elevation labeled 'SECTION A' and a plan view labeled 'PLAN'.

**SECTION A:** This view shows the curb ramp from the side. The horizontal distance from the pavement to the curb is 6'. The curb has a height of 4 inches. The ramp surface is sloped at a maximum of 1:12. The pavement is shown on the left, and the curb is on the right.

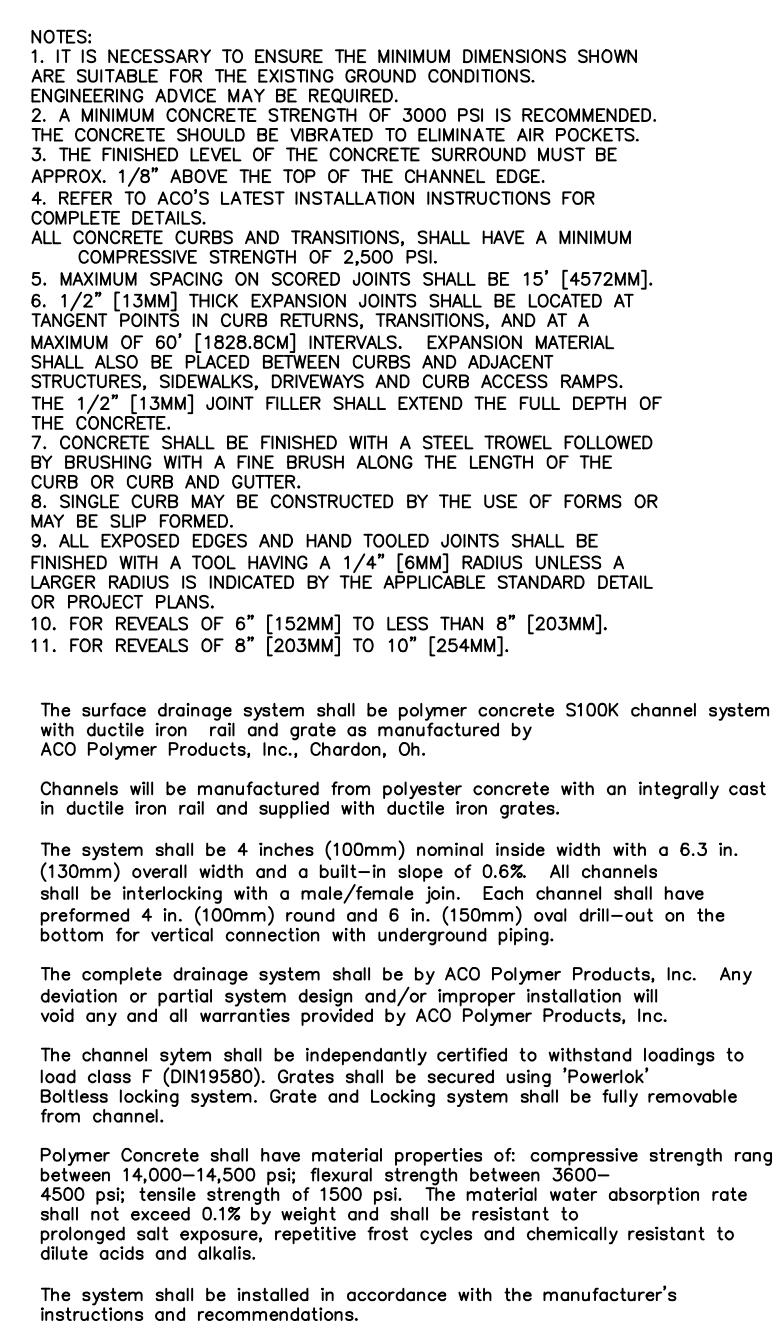
**PLAN:** This view shows the curb ramp from above. The curb is 6' wide. The ramp surface is 6' wide. The curb is made of concrete and has a concrete walkway on top. The ramp surface is made of concrete and has traction stamps. The curb is labeled 'CURB LINE' and the ramp surface is labeled 'CONCRETE WALK'. The ramp surface is also labeled 'TRACTION STAMPS SEE DETAIL 8/GS-103'. The curb is labeled 'EXPANSION JOINT'.

Diagram illustrating the cross-section of a retaining wall structure. The wall is constructed using ALLAM BLOCK UNIT. The wall face is finished with a FINISHED GRADE. The wall is supported by a base layer of WELL-GRADED GRANULAR WALL ROCK 0.25 in TO 1.5 in (5 mm to 38 mm) (LESS THAN 10 % FINES). A MINIMUM OF ONE BURIED BLOCK EXTENDED INTO SLOPE TO PREVENT EROSION is shown at the base of the wall.

The diagram illustrates the cross-section of a gravity retaining wall. Key components and specifications include:

- ALLAN BLOCK WALL BATTER FROM VERTICAL:** Indicated by an angle 'a' at the top of the wall face.
- ALLAN BLOCK UNIT:** The primary structural component of the wall.
- EXPOSED WALL HEIGHT:** The vertical distance from the finished grade to the top of the wall.
- EMBEDMENT DEPTH:** The vertical distance from the finished grade to the base of the wall.
- FINISHED GRADE:** The horizontal line representing the ground surface.
- 12 in (300 mm):** The thickness of the wall face.
- RETAINED SOIL:** The material held back by the wall, shown with a diagonal hatching pattern.
- WELL-GRADED GRANULAR WALL ROCK 0.25 in to 1.5 in (5 mm to 38 mm) LESS THAN 10 % FINES:** The material filling the core of the wall.
- 4 in (100 mm):** The thickness of the base layer below the wall.
- 4 in (100 mm) TOE DRAIN PIPE VENTED TO DAYLIGHT:** A pipe located at the base of the wall to collect and drain water.

Diagram illustrating the cross-section of a stepped slope stabilization system. The structure consists of three layers of ALLAN BLOCK UNITS. The top layer is a single row. The middle layer is a second row. The bottom layer is a third row, with one block extending further down the slope. A FINISHED GRADE line is shown above the top layer. A layer of WELL-GRADED GRANULAR WALL ROCK (0.25 in to 1.5 in / 5 mm to 38 mm) with less than 10% fines is shown between the block layers. A MINIMUM OF ONE BURIED BLOCK EXTENDED INTO SLOPE TO PREVENT EROSION is indicated for the bottom layer.



1. REMOVE EXISTING SURFACE AND BASE.
2. MATERIAL AND REPLACE PER DETAIL ABOVE, OR PROVIDE NEW SIDEWALK WHERE SHOWN
2. EXPANSION JTS. IN SIDEWALK EVERY 20' O.C. CAULKED WITH DOW CORNING 890-SL OR APPROVED EQUAL.
3. CAULKED EXPANSION JTS. IN NEW SIDEWALK, SHALL RUN FULL LENGTH OF EDGE ABUTTED TO EXISTING OR NEW CURB.
4. SUPPORT ALL NEW GRANITE CURBING WITH CONCRETE BACKER BEFORE PLACEMENT
4. WWF MUST BE SUPPORTED BY CHAIRS.
5. PITCH SIDEWALK 2% MIN FOR POSITIVE DRAINAGE.

CLASS B CONCRETE (3000 psi)

5' X 18" GRANITE CURB

6" THICK, 4000 PSI FIBERED CONCRETE

WIDTH SCALED FROM PLAN

SIDEWALK

WWF 6X6-W1.4 X W1.4

6" COMPACTED CRUSHER RUN

1 1/2" WEARING TOP COURSE

2" BINDER COURSE

8" OF 1 1/2" CRUSHED BANK RUN GRAVEL

CLASS B CONCRETE (3000 psi)

EXISTING OR NEW BANK RUN GRAVEL

5' X 18" GRANITE CURB

LANDSCAPED SURFACE FILL  
SEE SURFACE INDEX  
GS-101.

CLASS B CONCRETE)  
(3000 psi)

8" OF 1½" CRUSHED  
BANK RUN GRAVEL

1½" WEARING TOP  
2" BINDER COURSE

EXISTING OR NEW  
BANK RUN GRAVEL

5' X 18" GRANITE CURB

LANDSCAPED SURFACE FILL SEE SURFACE INDEX GS-101.

CLASS B CONCRETE)  
(3000 psi)

8" OF 1½" CRUSHED BANK RUN GRAVEL

1½" WEARING TOP

2" BINDER COURSE

EXISTING OR NEW BANK RUN GRAVEL

[illegible]

(Company Logo/Information Block)

Drawing Title

MISCELLANEOUS  
SITE PLAN DETAILS

Approved: Facility Manager

Project Title  
UPGRADE FOR BUILDING 16  
SITework

Building Number

Location	VAMC SYRACUSE, NY
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05/04/2013

Project No.  
528A7-13-71

DRAWING NO.

Dwg. 5 Of 11

