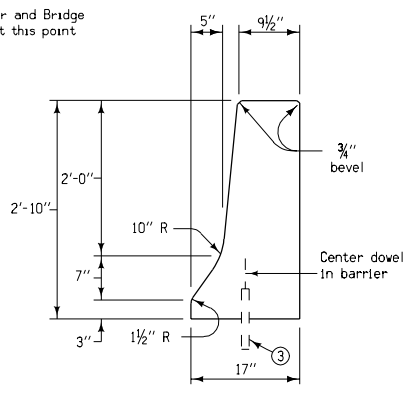


SIDEWALK - exact shape and dimensions shall be as directed by the Engineer to conform to individual project requirements.



SECTION FULL BARRIER RAIL

GENERAL NOTES:

Details shown hereon describe the construction requirements for a cast-in-place concrete approach barrier for use at a bridge (with sidewalk) which will utilize a concrete pedestrian barrier as part of the concrete bridge barrier rail.

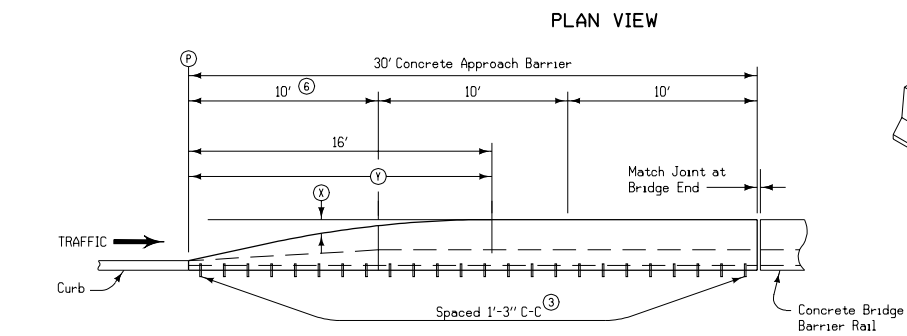
Barrier shall be constructed as specified in section 2513 of the current specifications or by methods approved by the Engineer.

Concrete approach barrier shall have a 'C' joint installed to match the location of all joints in both roadway and bridge approach pavement.

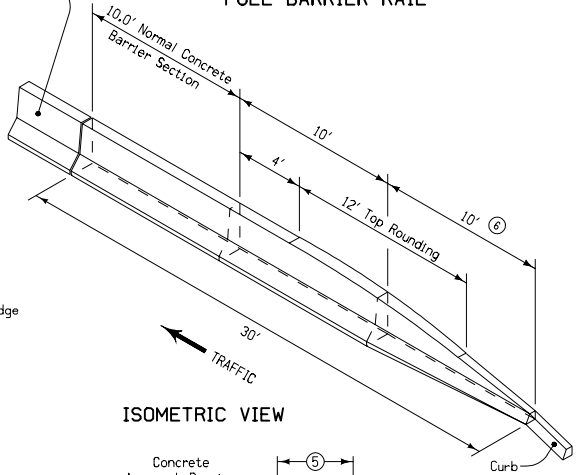
Delineators and object markers shall not be placed in front of, or on, the barrier.

Price bid for "RE-46 Concrete Approach Barrier" shall include all necessary work and material to construct one (1) barrier a minimum of 30 ft. in length as detailed hereon. Additional concrete quantity required for extended roadway pavement, as detailed hereon or as directed by the Engineer, shall be included in roadway paving quantity.

Where sidewalk is required, it shall be measured and paid for separately.



ELEVATION

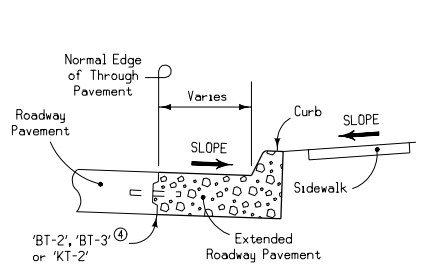


ISOMETRIC VIEW

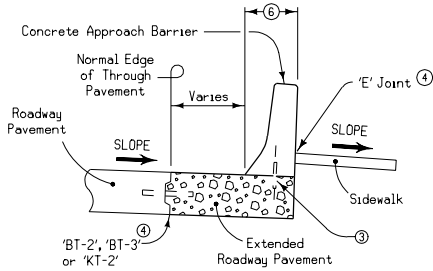
NOTE - Approximately 2.0 cu. yds. of concrete are required to construct barrier as shown. Amount may vary depending on individual site requirements.

- ① Joint spacing and location are typical. Specific project requirements shall be as directed by the Engineer.
- ② Boxout width shall match existing curb and gutter joint. If curb and gutter are not constructed, boxout width shall be 2 feet.
- ③ #8 x 8" Deformed bars or 1" diameter smooth.
- ④ For joint detail, refer to RH-50, RH-51 and RH-52.
- ⑤ Bottom width of barrier is maintained at 17".
- ⑥ Bottom width of barrier transitions from 8" to 17".

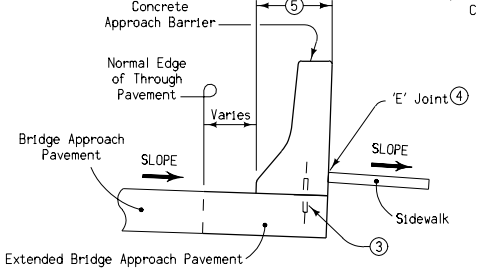
OFFSETS FOR ROUNDED BARRIER TOP										
Y = Distance from (P)	ft.	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
X = Offset to Rounded Top	ft.	2.13	1.91	1.70	1.48	1.26	1.06	0.87	0.70	0.54
		0.42	0.30	0.20	0.12	0.06	0.02	0.00		



SECTION A-A



SECTION B-B



SECTION C-C

Iowa Department of Transportation
Highway Division

STANDARD ROAD PLAN RE-46

REVISION: Add object marker information.	REVISION NO.
	11
<i>William J. Altan</i>	REVISION DATE
APPROVED BY DESIGN METHODS ENGINEER	10-29-02

**DETAILS OF
CONCRETE APPROACH BARRIER
(35 MPH OR LESS)**