SEE DETAIL B FOR REINFORCING STEEL OF PIPE ENTRY (SHEET 2)

PLAN VIEW

SEE DETAIL A (SHEET 2)

CUTOFF WALL

3-4" WEEPHOLES EQUALLY SPACED LATERALLY AND CENTERED VERTICALLY

*12" ABOVE EXISTING OR DESIGN GRADE LINE (WHICHEREVER IS HIGHER)

P.C.C. CLASS 560-C-3250

SECTION A-A ELEVATION NO SCALE

CITY OF MISSION VIEJO

PIPE ENTRANCE TO EARTH CHANNEL

STANDARD PLAN NO. 433

APPROVED RCE 30190 DATE 9.23.05

SHT 1 OF 2
NOTES:

1. IF LATERAL FLOW EXCEEDS 10% OF THE UPSTREAM FLOW, ANGLE θ SHALL BE DETERMINED BY THE HYDRAULICS OF THE CONFLUENCE.

2. MAXIMUM SIDE SLOPE GRADIENT EQUALS 1.5 TO 1.0.

3. TERMINATE TRANSVERSE DIMENSION OF RIPRAPH 10 FEET FROM TOE OF SLOPE. IF 10 FEET EXCEEDS 50% OF CHANNEL BASE WIDTH, OR CHANNEL VELOCITY EXCEEDS 10 FPS, RIPRAPH "X" FEET WIDE SHALL EXTEND ACROSS INVERT AND 4 FEET UP OPPOSITE SLOPE, PER SECTION A-A.

4. INCREASE DOWNSTREAM LIMIT OF INVERT RIPRAPH BLANKET BY "L" FEET IF LATERAL PIPE'S HORIZONTAL ENTRY ANGLE IS DEFLECTED FROM NORMAL. L=2 SIN θ (PIPE DIAMETER). IF "W" EXCEEDS 50% OF CHANNEL BASE WIDTH, OR CHANNEL VELOCITY EXCEEDS 10 FPS RIPRAPH SHALL EXTEND ACROSS ENTIRE INVERT.

5. PROVIDE 1.5" STEEL COVER.

6. LATERALS OF 24" OR LESS MAY BE BEVELED PIPE, 27" OR LARGER SHALL BE BARRELED.

CITY OF MISSION VIEJO

PIPE ENTRANCE TO EARTH CHANNEL

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APPROVED RCE 30190 DATE 9.23.03 SHT 2 OF 2