



**DESIGN NOTES:**

1. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO SIZE, DESIGN AND DETAIL ALL EDB STRUCTURES, INCLUDING REINFORCING STEEL GRATING, ORIFICE PLATE, WELL SCREEN, HINGED OPENING FOR ACCESS AND ALL METAL WORK CONNECTIONS.
2. A STANDARD EDB MAY BE USED FOR SITES WITH A TRIBUTARY AREA OF 5 ACRES UP TO 1 SQUARE MILE.
3. EDB MAY PROVIDE WQCV AND FULL-SPECTRUM DETENTION (EURV AND 100-YEAR) IN A SINGLE FACILITY, OR THESE MAY BE SPLIT BETWEEN SEPARATE FACILITIES.
4. ACCESS IS REQUIRED TO FOREBAY, OUTLET AND SPILLWAY. SEE MAINTENANCE ACCESS ON THE GENERAL DETAILS SHEET.
5. FOREBAY, TRICKLE CHANNEL AND MICROPOOL MUST ALL BE CONCRETE (NOT VEGETATED OR SOFT BOTTOMED).
6. THE MINIMUM TRICKLE CHANNEL LONGITUDINAL SLOPE IS 0.5%.
7. THE DISTANCE BETWEEN THE INLET(S) AND OUTLET SHALL BE MAXIMIZED TO MINIMIZE SHORT CIRCUITING. THE BASIN LENGTH (MEASURED ALONG THE FLOW PATH FROM THE INLET TO THE OUTLET) TO WIDTH RATIO SHOULD BE A MINIMUM OF 2:1.
8. OVERFLOW EMBANKMENT (EMERGENCY SPILLWAY) SHALL BE DESIGNED PER USDCM CHAPTER 12.
9. THE OUTLET STRUCTURE SHALL BE LOCATED IN THE EMBANKMENT OF THE EDB. THE MICROPOOL SHALL BE DIRECTLY IN FRONT OF OR INTEGRATED WITH THE STRUCTURE (SEE OUTLET STRUCTURE DETAILS).
10. PROVIDE AN INITIAL SURCHARGE VOLUME ABOVE THE MICROPOOL FOR FREQUENT EVENTS (SEE OUTLET STRUCTURE DETAILS).
11. HANDRAIL IS RECOMMENDED FOR USE ADJACENT TO COARSE GRATING AND/OR WHERE PEDESTRIAN TRAFFIC IS IN CLOSE PROXIMITY TO THE OUTLET STRUCTURE. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO DETERMINE WHETHER HANDRAIL IS TO BE USED.
12. THE WELL SCREEN MAY BE OMITTED FROM THE OUTLET STRUCTURE IF THE CONTROL ORIFICES ARE 2.5 INCHES IN DIAMETER OR 2 INCHES SQUARE OR GREATER.
13. EDBS SHALL BE VEGETATED WITH ARAPAHOE COUNTY STANDARD SEED MIXES. ROCK AND MULCH ARE NOT PERMITTED WITHIN AN EDB. SHRUBS AND TREES MAY BE PLANTED ABOVE THE EURV WATER SURFACE.
14. OUTLET MODIFICATION AND FLOOD HAZARD WARNING SIGNS SHALL BE PROVIDED AND MEET THE REQUIREMENTS ON THE GENERAL DETAILS SHEET.

**CONSTRUCTION NOTES: (INCLUDE ON CONSTRUCTION DRAWINGS)**

1. TEMPORARY IRRIGATION IS REQUIRED FOR ALL EDBS TO AID IN ESTABLISHING VEGETATION. IRRIGATION HEADS SHALL BE PLACED ABOVE THE EURV AND LOCATED TO ENSURE COMPLETE COVERAGE.

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| REFERENCE: | SCALE: | Standard Plan Revision |             |
|            |        | No.                    | Date        |
|            |        |                        | Description |
|            |        |                        |             |



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**EXAMPLE PLAN  
 EXTENDED DETENTION  
 BASIN**

**SHEET  
 1 OF 1**