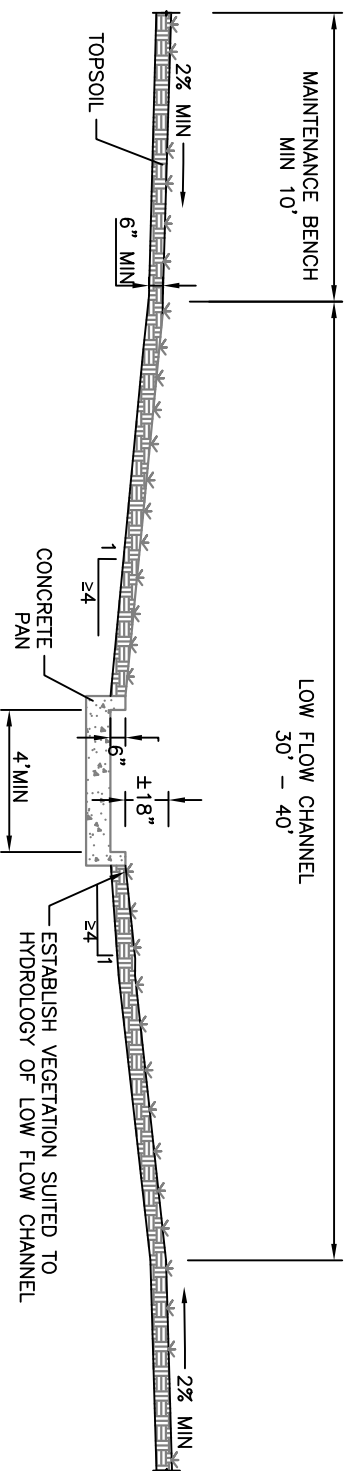
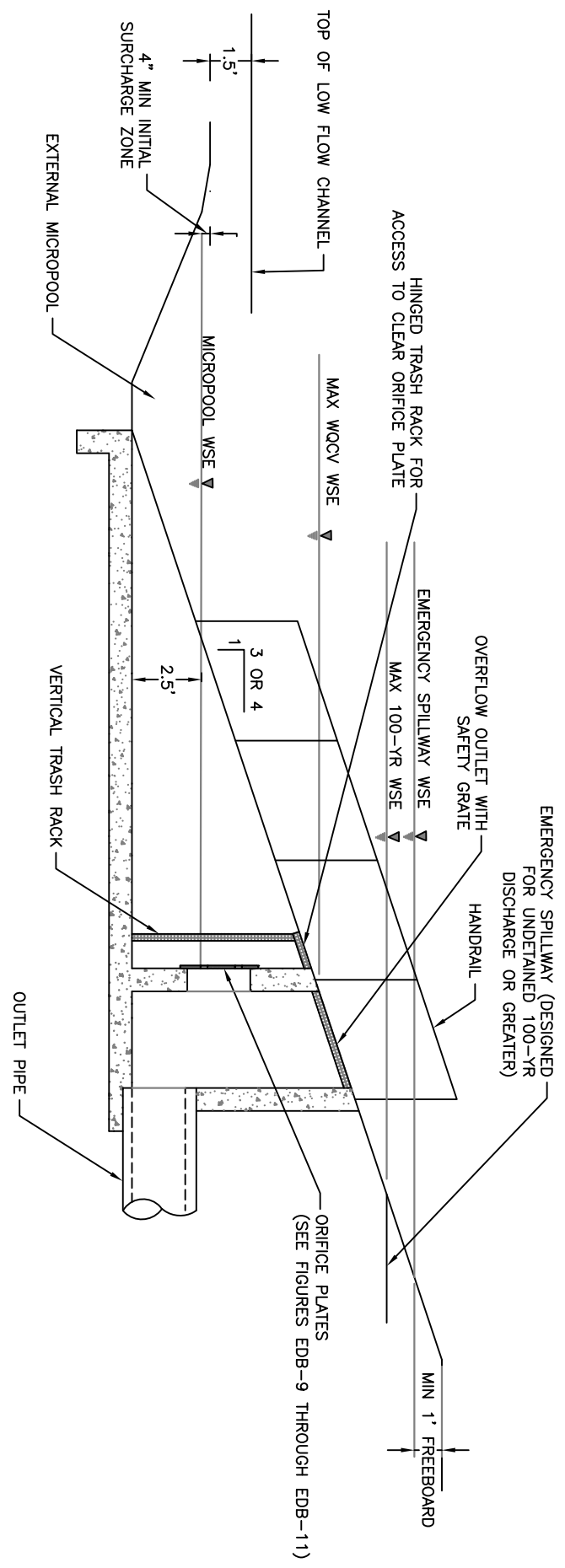


VEGETATED LOW FLOW CHANNEL



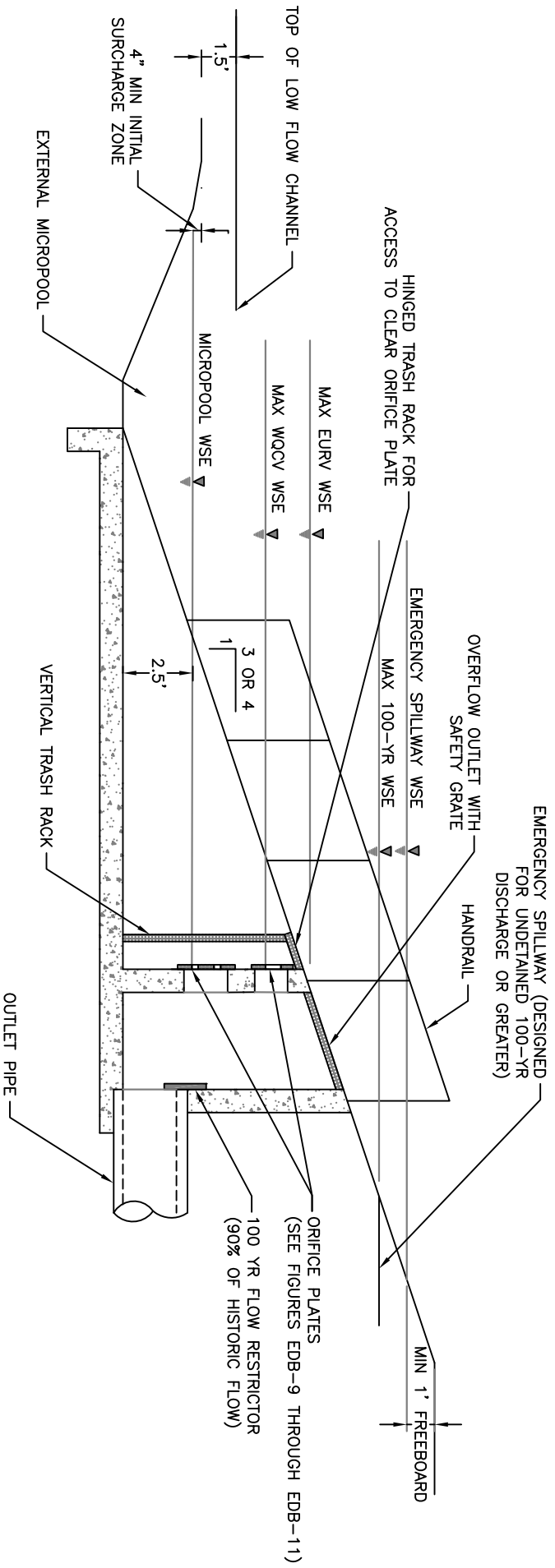
LOW FLOW CHANNEL WITH CONCRETE PAN

FIGURE EDB-2
CONCEPTUAL CROSS SECTIONS FOR LOW FLOW
CHANNEL WITH AND WITHOUT CONCRETE PAN



NOTE: CONFIGURATION ASSUMES ORIFICES ARE LARGE ENOUGH THAT A WELL SCREEN IS NOT REQUIRED. IF WELL SCREEN IS NEEDED, SEE FIGURES EDB-9 THROUGH EDB-11 FOR ADDITIONAL DETAILS.

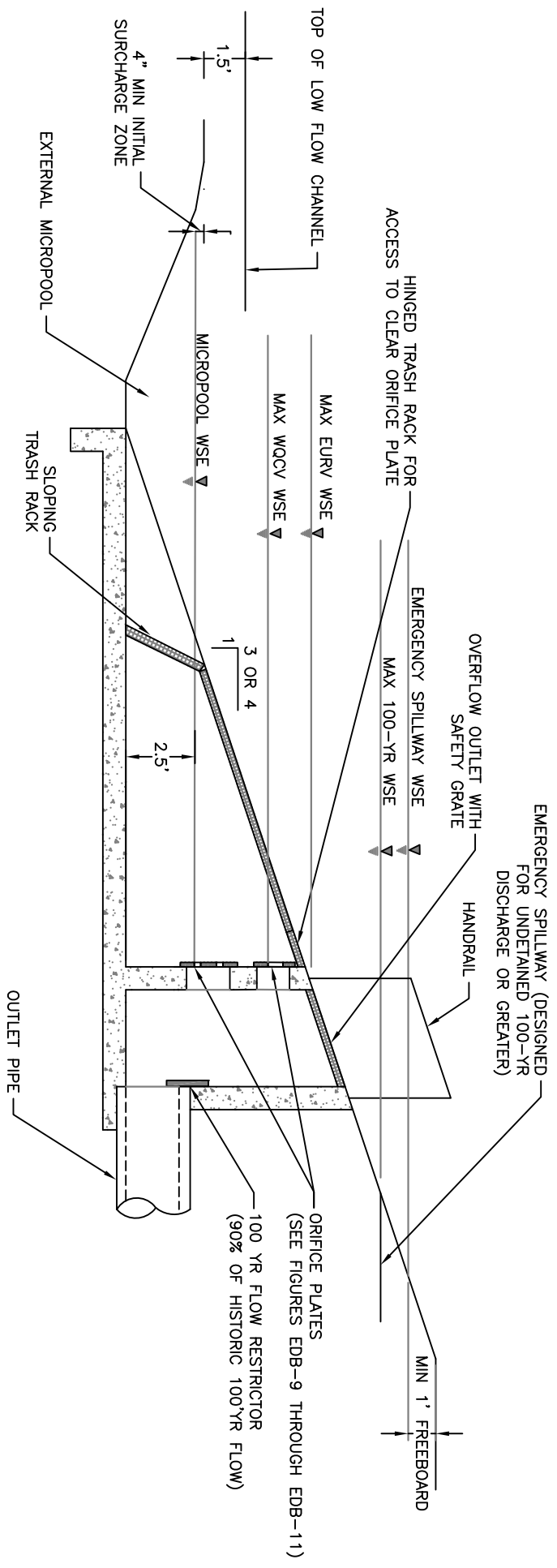
FIGURE EDB-3
OUTLET STRUCTURE FOR WQCV TREATMENT WITH EXTERNAL MICROPOL & VERTICAL TRASHRACK



NOTE: CONFIGURATION ASSUMES ORIFICES ARE LARGE ENOUGH THAT A WELL SCREEN IS NOT REQUIRED. IF WELL SCREEN IS NEEDED, SEE FIGURES EDB-9 THROUGH EDB-11 FOR ADDITIONAL DETAILS.

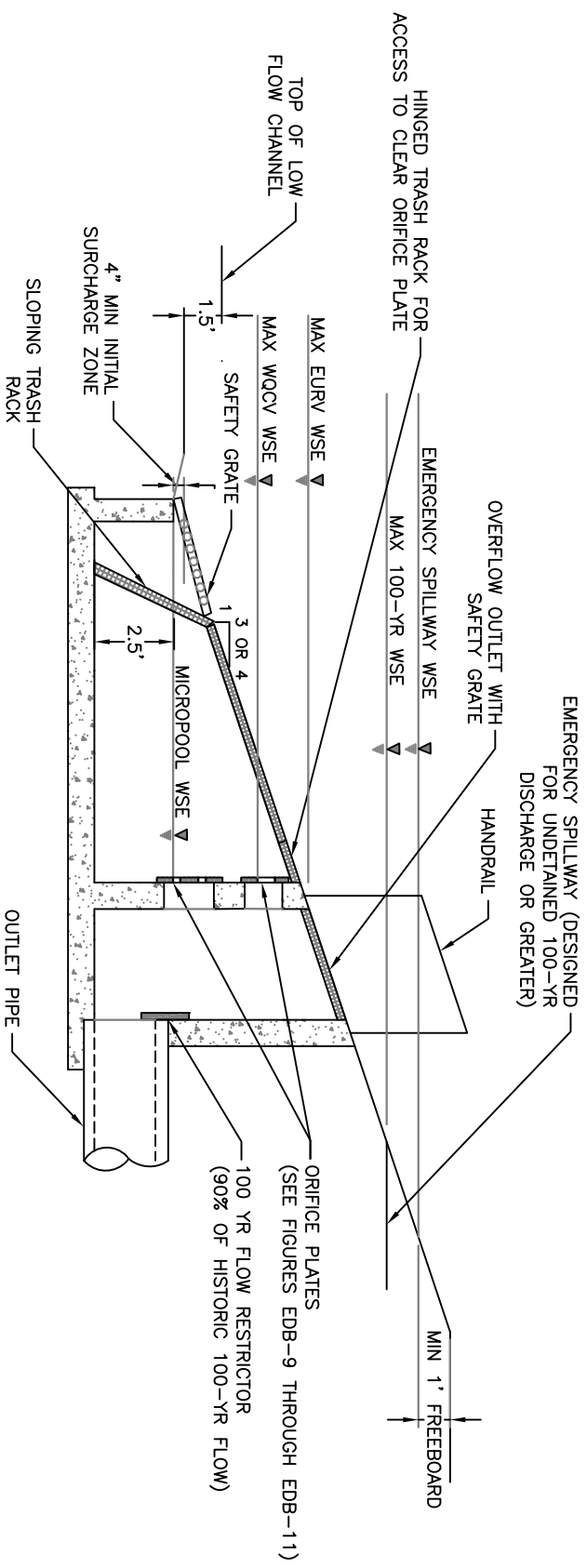
FIGURE EDB--4

OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION
WITH EXTERNAL MICROPOL & VERTICAL TRASH RACK



NOTE: CONFIGURATION ASSUMES ORIFICES ARE LARGE ENOUGH THAT A WELL SCREEN IS NOT REQUIRED. IF WELL SCREEN IS NEEDED, SEE FIGURES EDB-9 THROUGH EDB-11 FOR ADDITIONAL DETAILS.

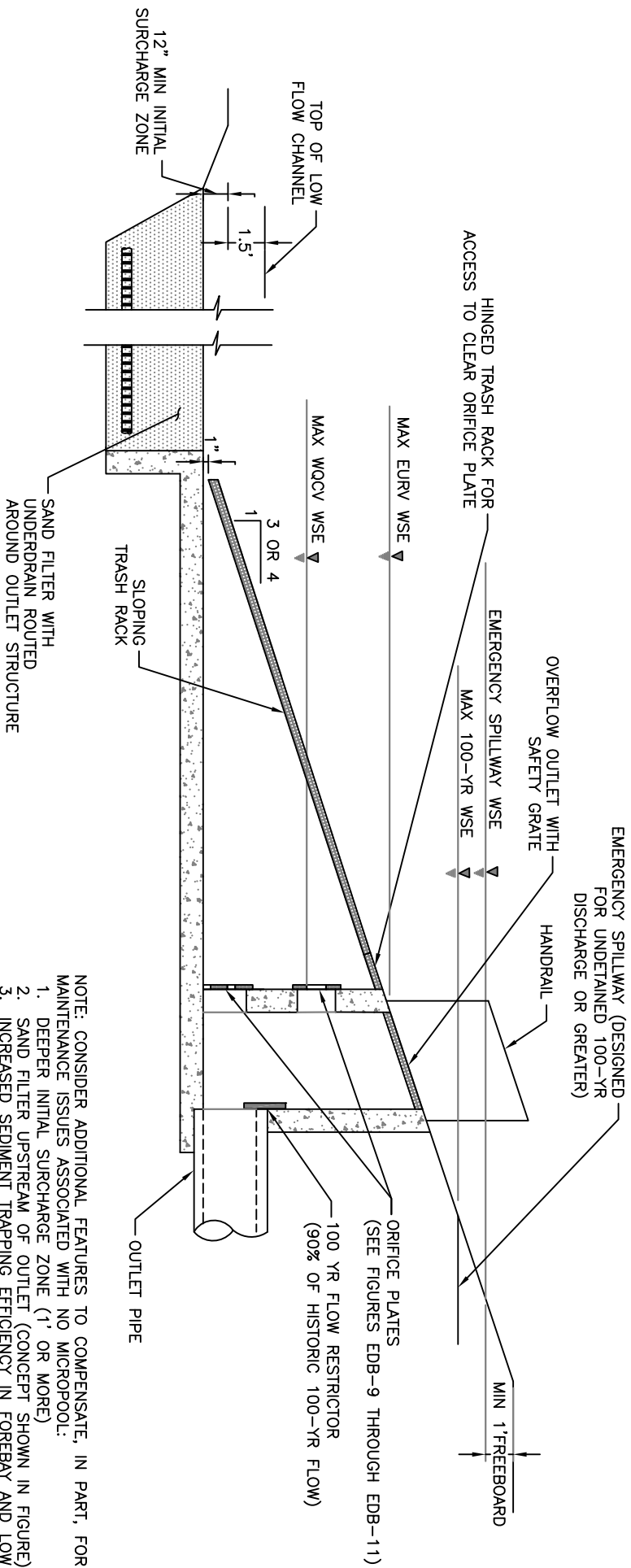
FIGURE EDB-5
OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION
WITH EXTERNAL MICROPOL & SLOPING TRASH RACK



NOTE: CONFIGURATION ASSUMES ORIFICES ARE LARGE ENOUGH THAT A WELL SCREEN IS NOT REQUIRED. IF WELL SCREEN IS NEEDED, SEE FIGURES EDB-9 THROUGH EDB-11 FOR ADDITIONAL DETAILS.

FIGURE EDB-6

OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION WITH INTERNAL MICROPOL & SLOPING TRASH RACK



NOTE: CONSIDER ADDITIONAL FEATURES TO COMPENSATE, IN PART, FOR MAINTENANCE ISSUES ASSOCIATED WITH NO MICROPOOL:

1. DEEPER INITIAL SURCHARGE ZONE (1' OR MORE)
2. SAND FILTER UPSTREAM OF OUTLET (CONCEPT SHOWN IN FIGURE)
3. INCREASED SEDIMENT TRAPPING EFFICIENCY IN FOREBAY AND LOW FLOW CHANNEL
4. ADDITIONAL TRASH CAPTURE AT INFLOW POINTS
5. WATER QUALITY ORIFICES 2" OR GREATER
6. CONFIGURATION ASSUMES ORIFICES ARE LARGE ENOUGH THAT A WELL SCREEN IS NOT REQUIRED. IF WELL SCREEN IS NEEDED, SEE FIGURES EDB-9 THROUGH EDB-11 FOR ADDITIONAL DETAILS

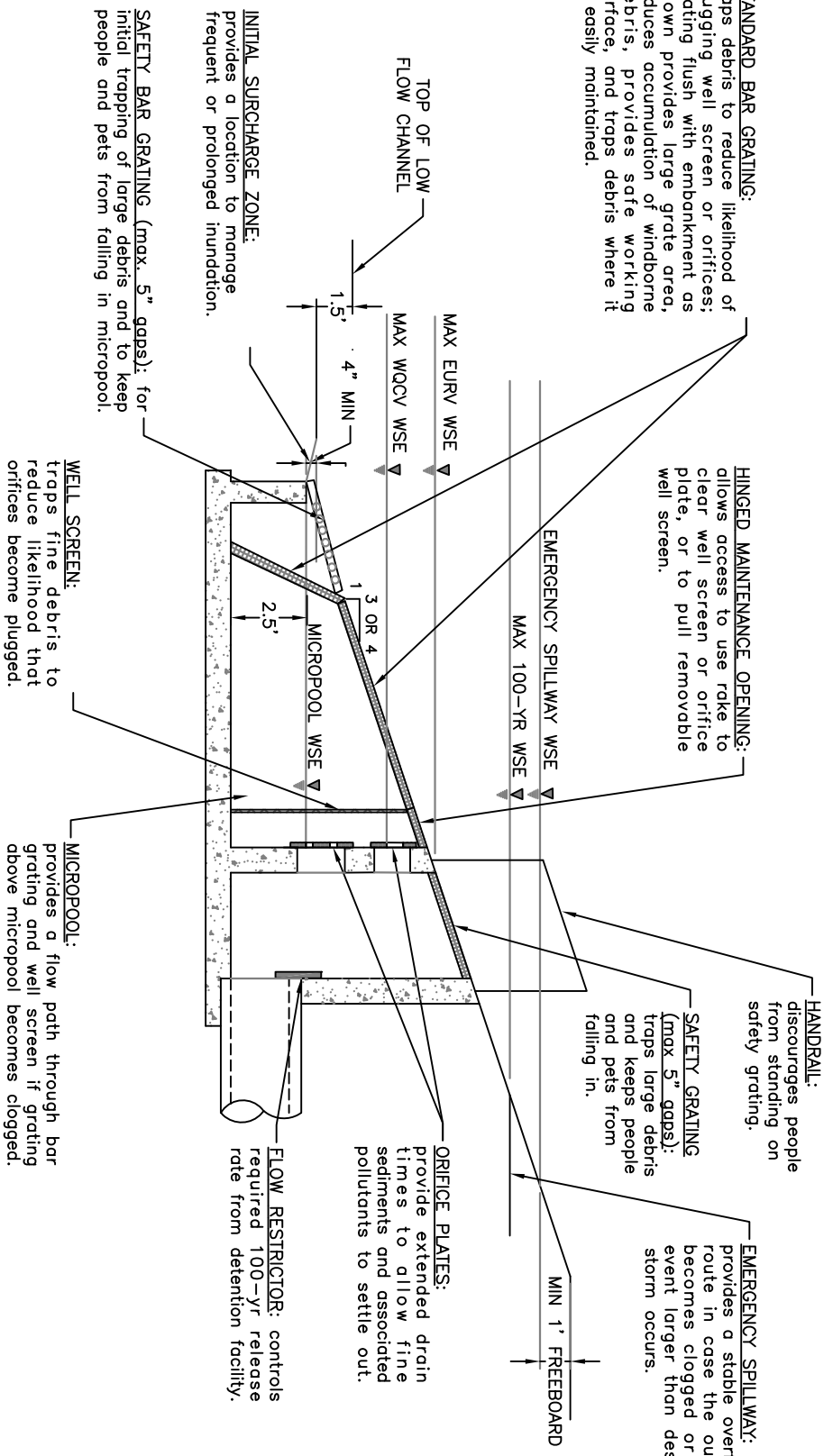
FIGURE EDB-7
OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION
WITHOUT MICROPOOL & WITH SLOPING TRASH RACK

STANDARD BAR GRATING:
traps debris to reduce likelihood of plugging well screen or orifices; grating flush with embankment as shown provides large grate area, reduces accumulation of windborne debris, provides safe working surface, and traps debris where it is easily maintained.

HINGED MAINTENANCE OPENING:
allows access to use rake to clear well screen or orifice plate, or to pull removable well screen.

HANDRAIL:
discourages people from standing on safety grating.

EMERGENCY SPILLWAY:
provides a stable overflow route in case the outlet becomes clogged or an event larger than design storm occurs.



INITIAL SURCHARGE ZONE:
provides a location to manage frequent or prolonged inundation.

SAFETY BAR GRATING (max. 5" gaps): for initial trapping of large debris and to keep people and pets from falling in micropool.

WELL SCREEN:
traps fine debris to reduce likelihood that orifices become plugged.

MICROPOL:
provides a flow path through bar grating and well screen if grating above micropool becomes clogged.

ORIFICE PLATES:
provide extended drain times to allow fine sediments and associated pollutants to settle out.

FLOW RESTRICTOR: controls required 100-yr release rate from detention facility.

NOTE: SOME COMPONENTS MAY NOT BE NEEDED DEPENDING ON SITE CHARACTERISTICS & DESIGN. FOR EXAMPLE, WELL SCREEN MAY NOT BE NEEDED IF ORIFICES ARE LARGE ENOUGH THAT BAR GRATING IS SUFFICIENT.

FIGURE EDB-8
OUTLET STRUCTURE FOR FULL SPECTRUM DETENTION
- INTENT OF OUTLET COMPONENTS

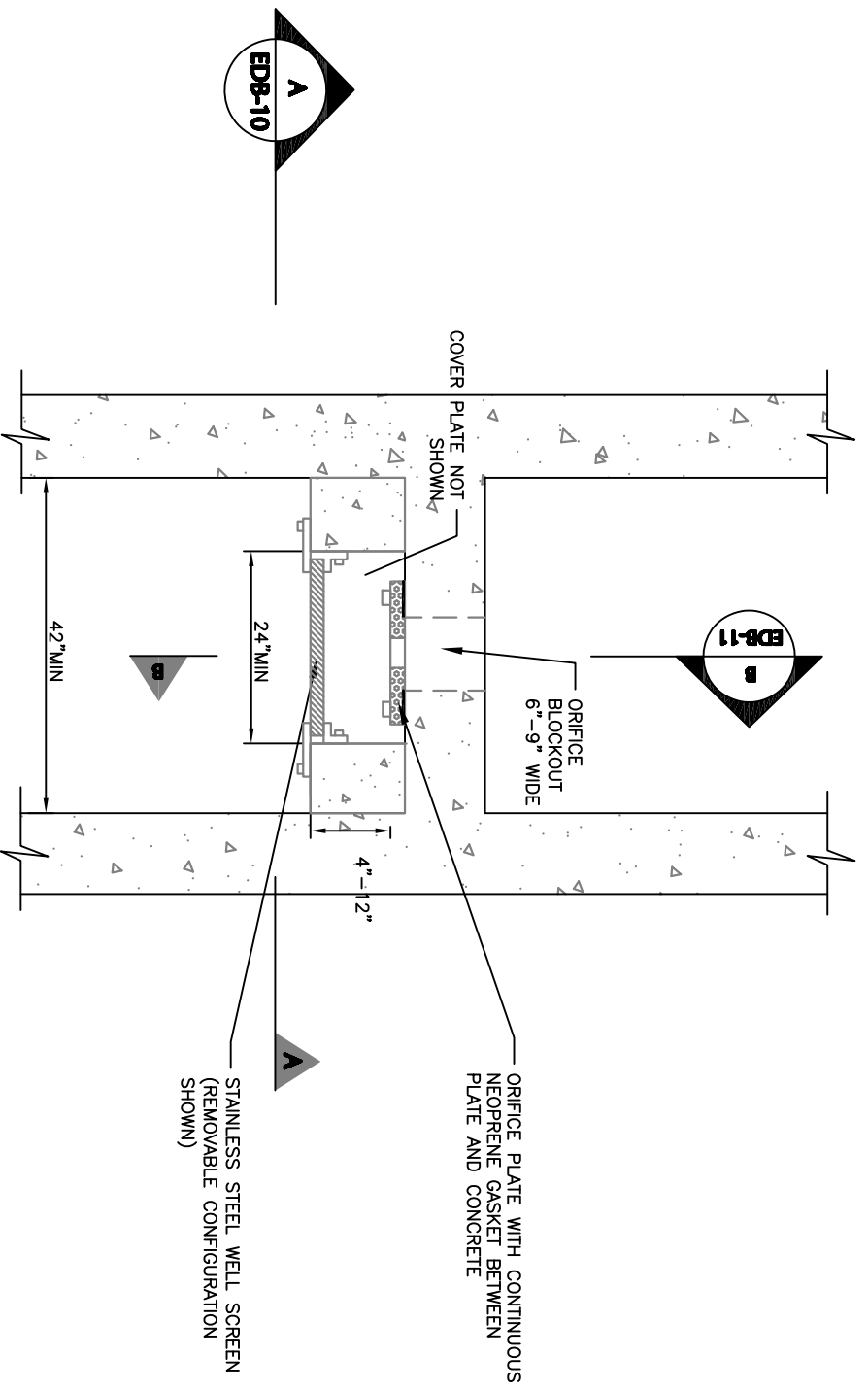


FIGURE EDB-9
CONCEPTUAL PLAN VIEW OF ORIFICE PLATES
WITH WELL SCREEN

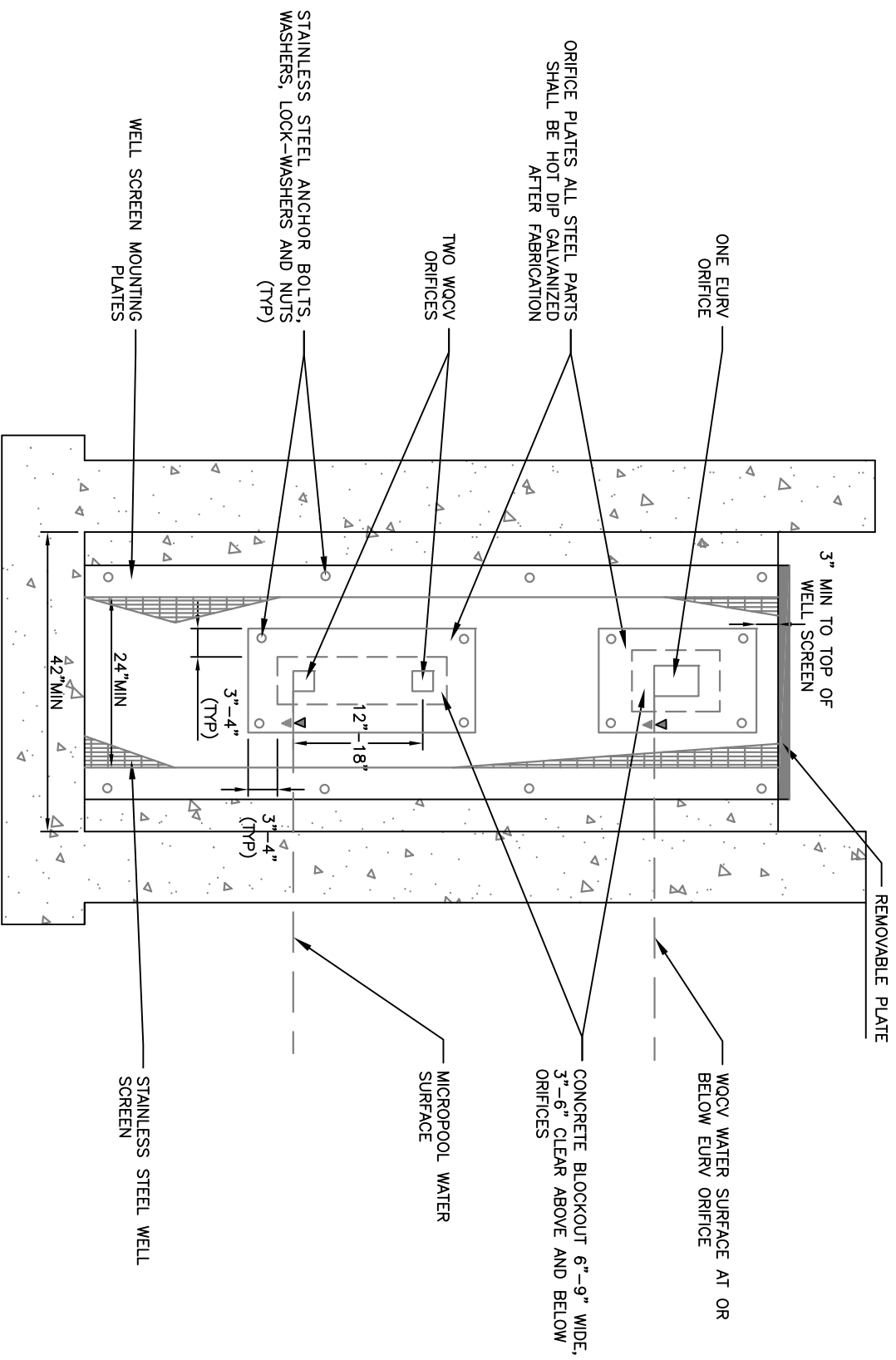


FIGURE EDB-10
CONCEPTUAL FRONT VIEW OF ORIFICE PLATES
WITH WELL SCREEN - SECTION A

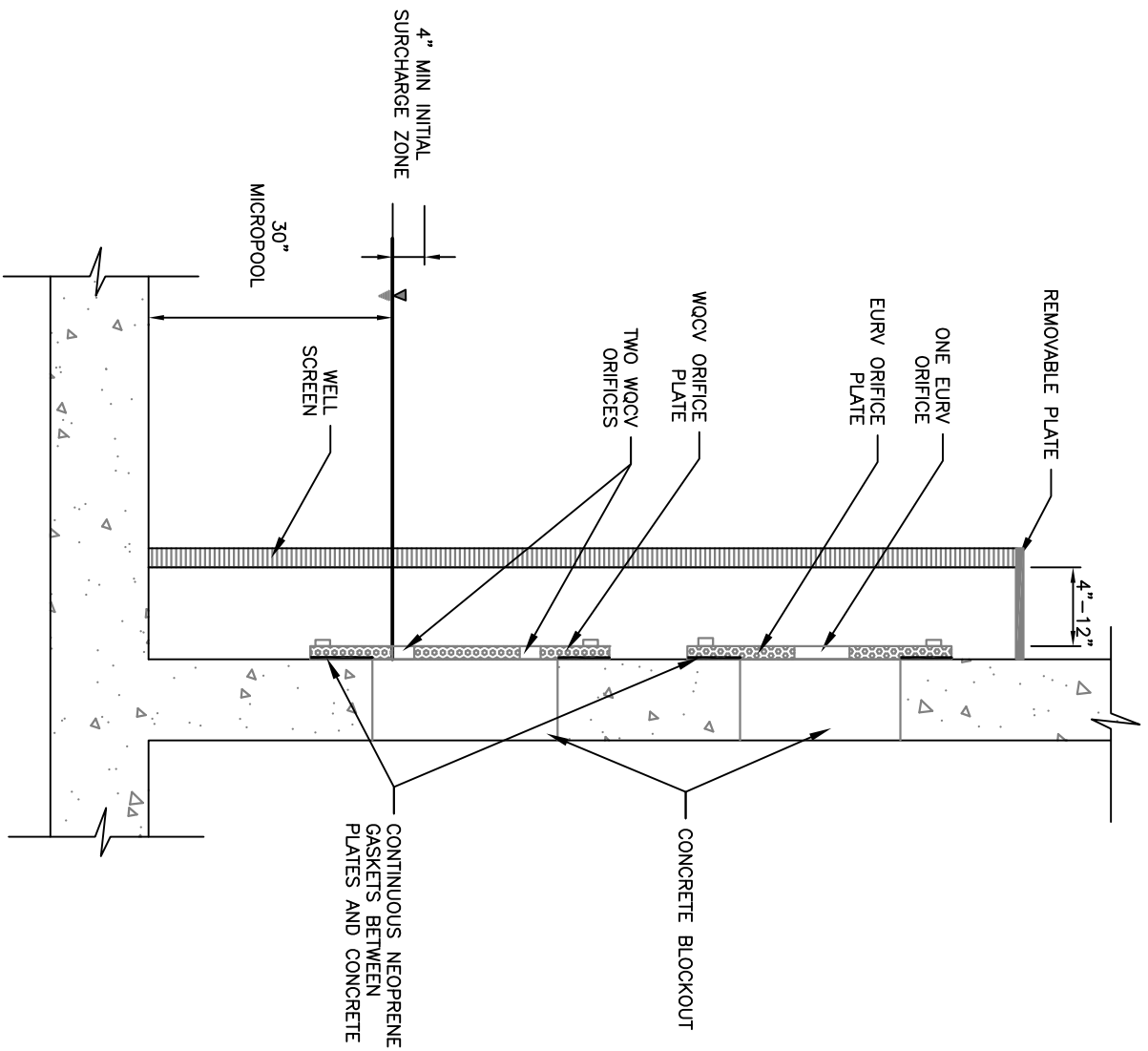


FIGURE EDB-11

CONCEPTUAL SIDE VIEW OF ORIFICE PLATES
WITH WELL SCREEN - SECTION B