

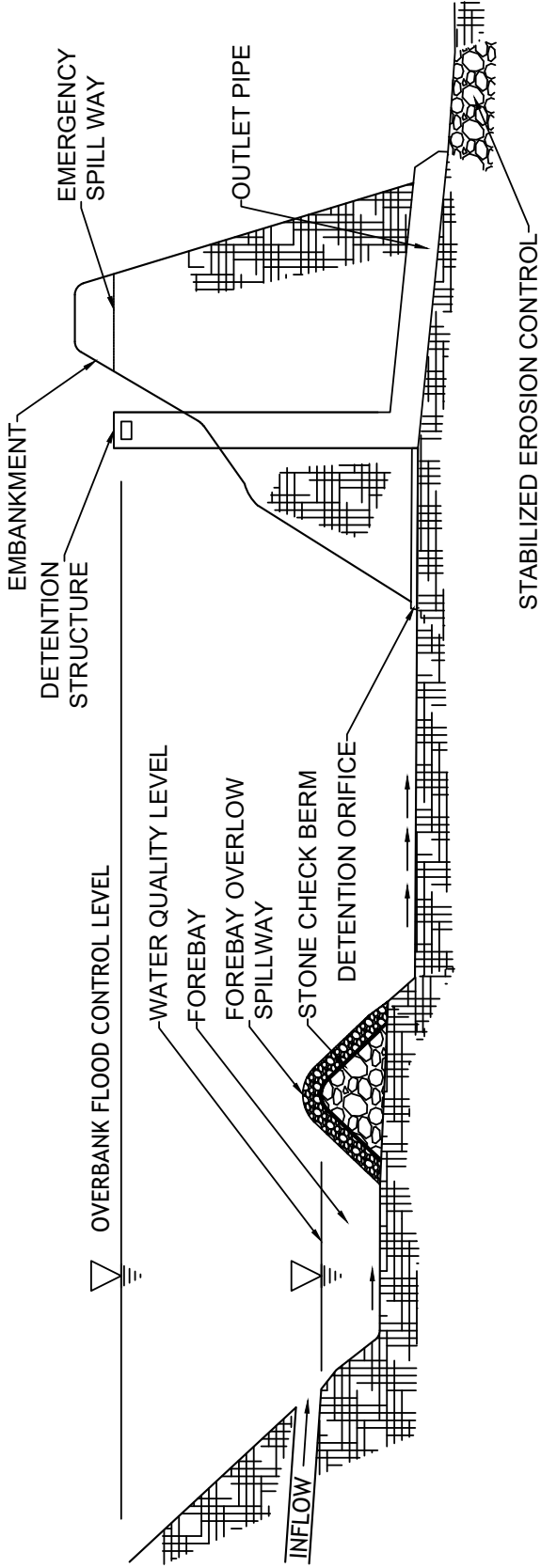


Eric Sawyer

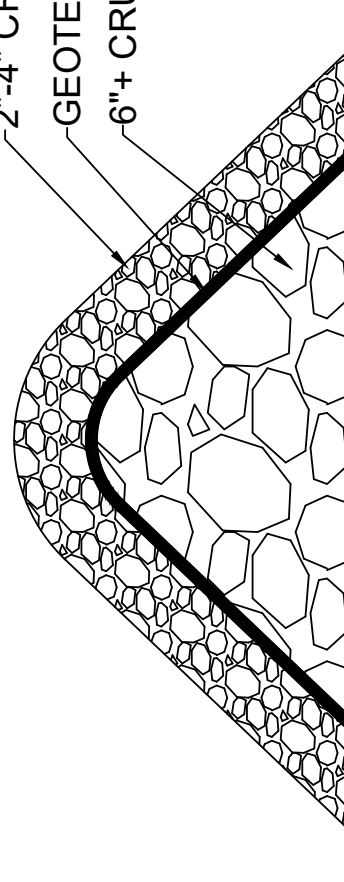
Approved

Detention Basin - 120356

23



2"-4" CRUSHED LIMESTONE
 GEOTECHNICAL FILTER FABRIC
 6"+ CRUSHED LIMESTONE



DETENTION BASIN FOREBAY
CHECK BERM DETAIL

General SMU Notes

1. Inlet chambers shall be precast or made from concrete block in accordance with latest ODOT CMS and City Supplement specifications.
2. All structures must meet standard inside dimensions.
3. Block chambers shall be made from solid slab blocks.
4. Mortar joints shall be a minimum of 3/8".
5. Block walls shall be skim coated with a minimum 1/8" mortar.
6. Casting shall be set in a bed of mortar.
7. Block floors are not permitted.
8. Precast box shall be set on a bed of 6" compacted #57 stones with the floor poured to match flow lines.
9. Concrete floors shall be a minimum of 6" thick.
10. Precast walls shall be a minimum 6" thick.
11. All risers shall be sealed with 2 rows of Con-seal. One interior and one exterior.
12. Pipes shall not enter within 8" of an inside corner.
13. Outlet pipe shall be flush with wall or protrude no more than 1".
14. For incoming conduits with diameter of 8" and smaller see Acc. # 120340.
15. For standard casting, see Acc. # 49017.
16. For standard reinforcing steel notes see Acc. # 49010.
17. Inlet connections in a cone section are not permitted.
18. No more than 2 inlet connections spaced 2' +/- apart horizontally in a 3' or 4' manhole section.
19. Hubs inside of any structure are not permitted.
20. All reinforcing bars shall clear interior face of wall by 2".
21. For installation of risers, a 1" tolerance in either direction is permitted.
22. Protrusions for inlet pipes shall be a minimum of 1" and a maximum of 2".

23. All pipes shall be set in a bed of mortar, dry fitting is not permitted.
24. Pipe edges shall be smooth. No jagged edges are permitted.
25. Shop drawings for precast structures must be approved prior to work commencing.
26. No knockouts are permitted.
27. No steps are permitted.
28. All penetrations shall be manufactured or cored and shall not exceed 4" greater than the conduit's outside diameter.
29. Shims are not permitted.

Detention Basin

1. Forebay volume shall be equal to 20% of the calculated detention basin volume.
2. Stone check berm shall be constructed of 6" or larger crushed aggregate as a core and wrapped with a geotechnical filter fabric. The exterior layer shall be constructed of 2"-4" crushed aggregate.
3. For detention volume calculations, the stone check berm shall be treated as having no storage benefit.
4. Maintenance of the Forebay shall be part of the O&M plan that is submitted by the owner prior to final approval of the site.
5. Outfall Orifice, Detention Structure, Embankment slopes to be designed per Stormwater Management Utilities Rules and Regulations.
6. Stabilized Erosion Control to be constructed of at least 6" stone.

