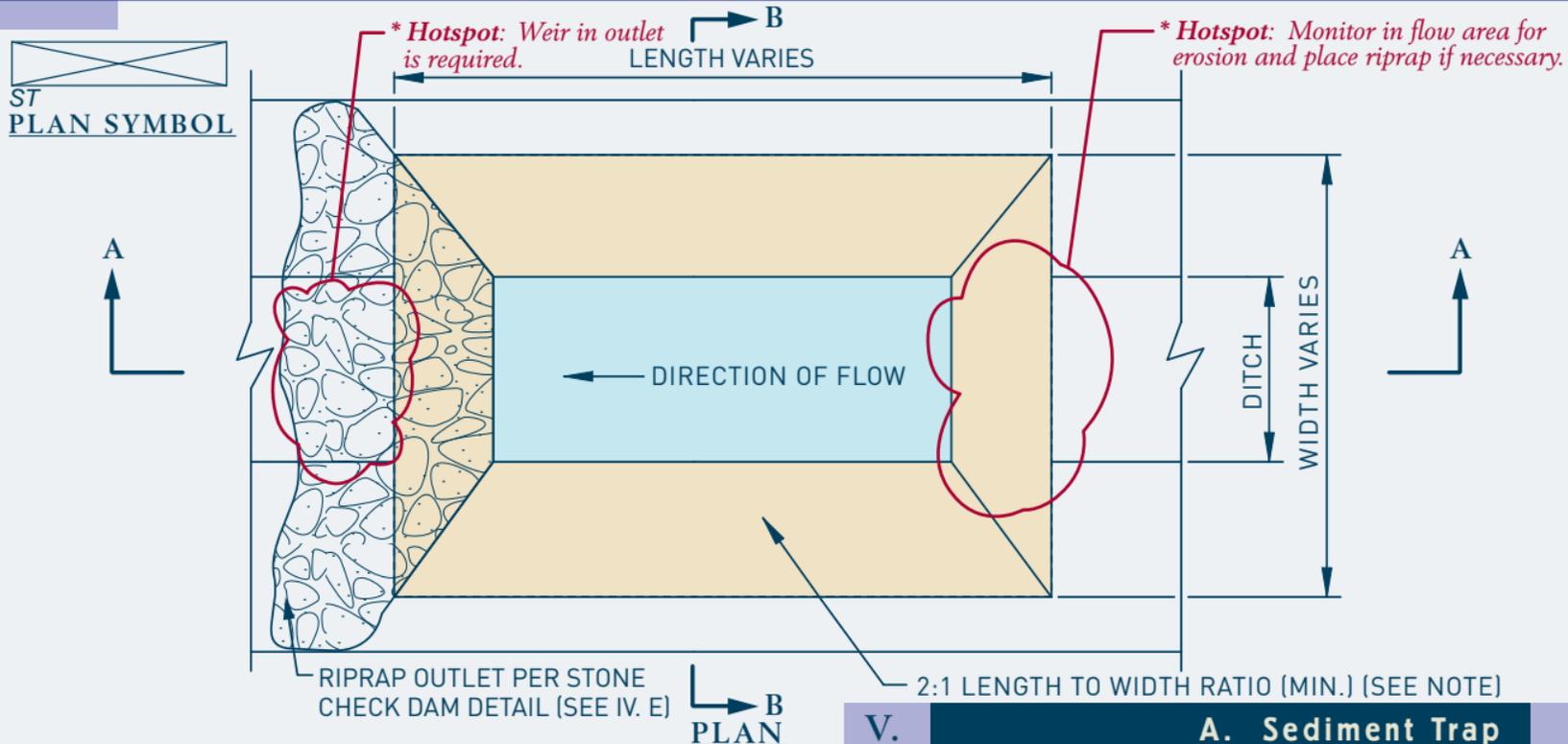




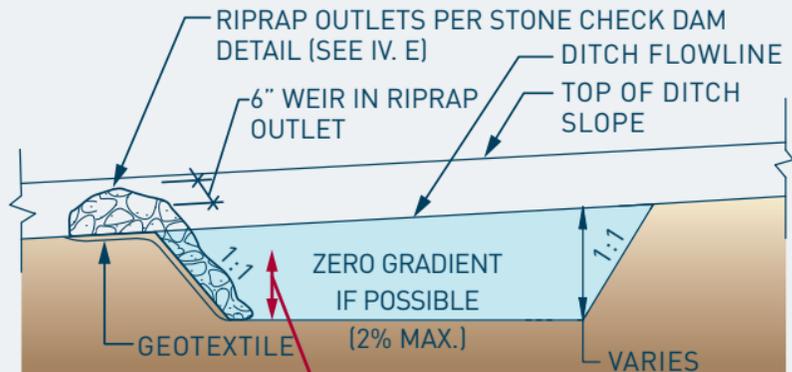
EROSION & SEDIMENT CONTROL

FIELD GUIDE

V. SEDIMENT TRAPS AND BASINS

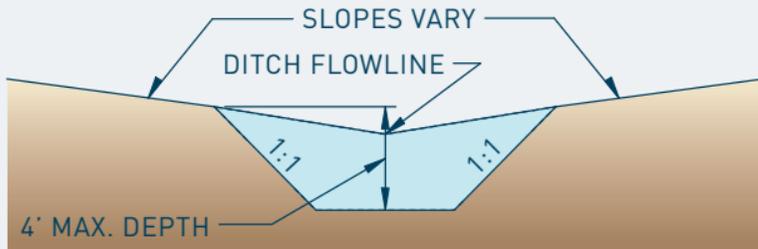


V. SEDIMENT TRAPS AND BASINS



SECTION A-A

** Hotspot: Sediment must be removed when accumulated to 1/2 the depth of the trap.*



NOTES

1. SEDIMENT TRAPS ARE INTENDED FOR USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES WITH A MAXIMUM DRAINAGE AREA OF 15 ACRES, AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. SIDE SLOPES SHALL BE STABILIZED WITH "TEMPORARY GRASS SEEDING, DRY GROUND" AND STRAW MULCH.
3. AN OUTLET STRUCTURE IS REQUIRED, STONE CHECK DAMS, PERFORATED RISER PIPES, SKIMMER DEWATERING DEVICES, OR DRAINAGE INLETS MAY BE USED. SEE APPROPRIATE STANDARD SHEET FOR ADDITIONAL INFORMATION.
4. FOR SIZE, LOCATION, ETC. OF SEDIMENT TRAP, SEE CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLANS.
5. ALL FILL SLOPES SHALL BE 2:1.
6. A 2:1 LENGTH TO WIDTH RATIO SHOULD BE ACHIEVED WHERE POSSIBLE. IF THIS IS NOT POSSIBLE, THE USE OF BAFFLES OR OTHER SPECIAL DESIGNS SHOULD BE INCORPORATED TO INCREASE FLOW TIME.

V. SEDIMENT TRAPS AND BASINS

V.A - Maintenance

- Throughout the phases of construction that require erosion and sediment control, the Contractor shall maintain the sediment trap to the original dimensions and function of the sediment trap. Immediately after every rainfall, the Contractor shall inspect the sediment trap and make repairs as needed.
- When sediment has accumulated to one-half the design depth of the trap, the sediment shall be removed and the trap restored to its plan dimensions and elevations. The Contractor shall clearly mark the cleanout elevation on a stake driven into the ground at the bottom of the trap. Sediment removed from the trap shall be disposed of in a manner suitable to the Engineer.

Good, but needs stabilization.

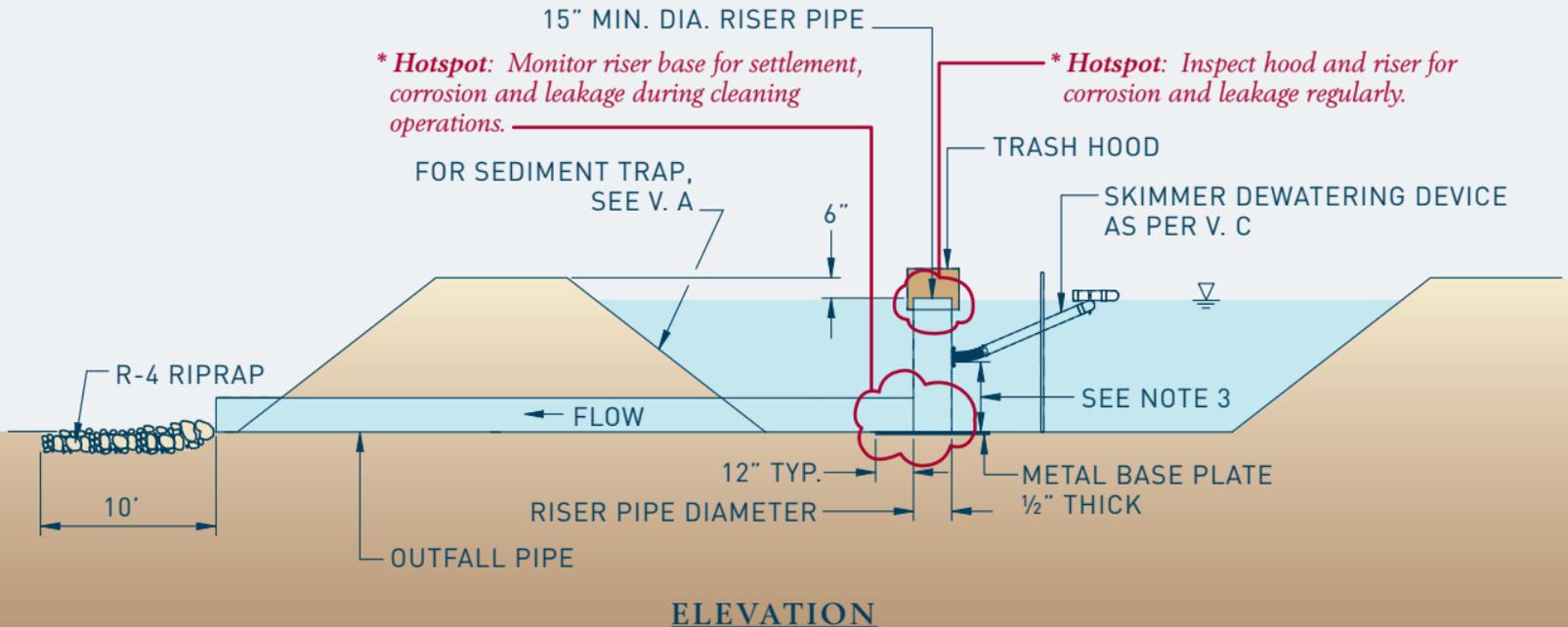


V. SEDIMENT TRAPS AND BASINS



Sediment accumulation upstream of trap.

V. SEDIMENT TRAPS AND BASINS



V. SEDIMENT TRAPS AND BASINS

V.B - Maintenance

- Throughout the Project construction period, the Contractor shall maintain the assembly by replacing any clogged geotextile and cleaning any clogged pipe and stone.

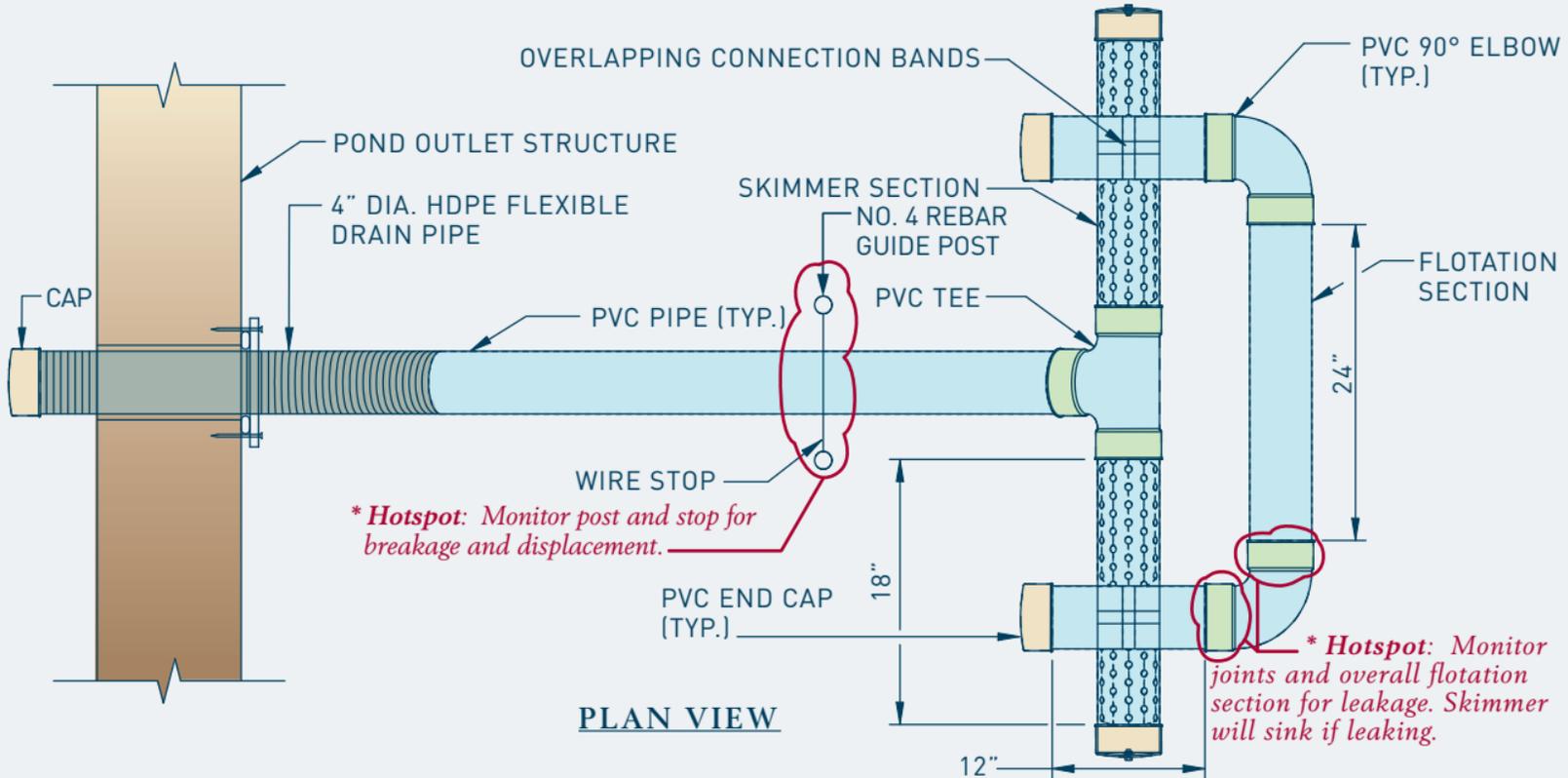
MIN. OUTFALL* PIPE DIA.	MIN. RISER DIA.
12"	15"
15"	18"
18"	21"
21"	24"
24"	27"

* OUTFALL PIPE DIAMETER MAY BE SAME SIZE AS RISER DIAMETER.

NOTES

- THE DEVICE IS INTENDED TO BE USED AS AN OUTLET FOR SEDIMENT TRAPS.
- THE PIPE OUTLET SHOWN SHALL ONLY BE USED WITH SEDIMENT TRAPS WITH DRAINAGE AREAS OF 5 ACRES OR LESS. LARGER DRAINAGE AREAS REQUIRE AN ENGINEERED DESIGN.
- THE HEIGHT OF THE SKIMMER DEWATERING DEVICE SHALL BE SPECIFIED BY THE ENGINEER IN THE FIELD.

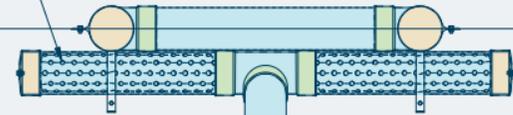
V. SEDIMENT TRAPS AND BASINS



V. SEDIMENT TRAPS AND BASINS

** Hotspot: Monitor for clogging.*

12 ROWS OF 1/2" DIA. HOLES, 1 1/4" C.C.



ORIFICE DRILLED
IN END CAP
(SEE NOTE 3)

END CAP

FRONT VIEW

** Hotspot: Monitor orifice for clogging
and clean as necessary.*

** Hotspot: Monitor flexible section for damage
and leakage at outfall structure wall.*

#4 REBAR GUIDE POST (TYP.) WITH
WIRE STOP AT TOP OF RISER

ATTACH FLEXIBLE
PIPE TO PVC WITH
TWO NO. 8 WOOD
SCREWS

6"

12"

48"

FLANGE WITH RUBBER
GASKET MATERIAL
(ATTACH TO STRUCTURE
WITH CONCRETE SCREWS OR OTHER
SUITABLE ATTACHMENT AS APPROVED
BY THE ENGINEER)



1" STEEL STRAP
(TYP.)

4' X 6' DELAWARE #57
STONE PAD FOR SKIMMER.
4" MINIMUM THICKNESS



SIDE VIEW

NOTES

1. ALL P.V.C. PIPES ARE TO BE 4" I.D., SCHEDULE 40.
2. 4" HDPE FLEXIBLE DRAIN PIPE IS TO BE ATTACHED TO THE POND OUTLET STRUCTURE WITH WATER-TIGHT CONNECTIONS.
3. ORIFICE DIMENSION PER PLANS.

V. SEDIMENT TRAPS AND BASINS

V.C - Maintenance

- After each rainfall when the water level returns to the normal wet storage elevation, the Contractor shall inspect the skimmer, in particular the flexible portion of the device and its connection to the outlet structure for damage, rupturing or other separation resulting in a non-watertight seal. Any component of the skimmer that becomes defective, or not watertight at the joints, shall be repaired immediately.

**Hotspot:
Guides for skimmer are required.
Missing required stone pad.*



V. SEDIMENT TRAPS AND BASINS



V. C. Skimmer Dewatering Device