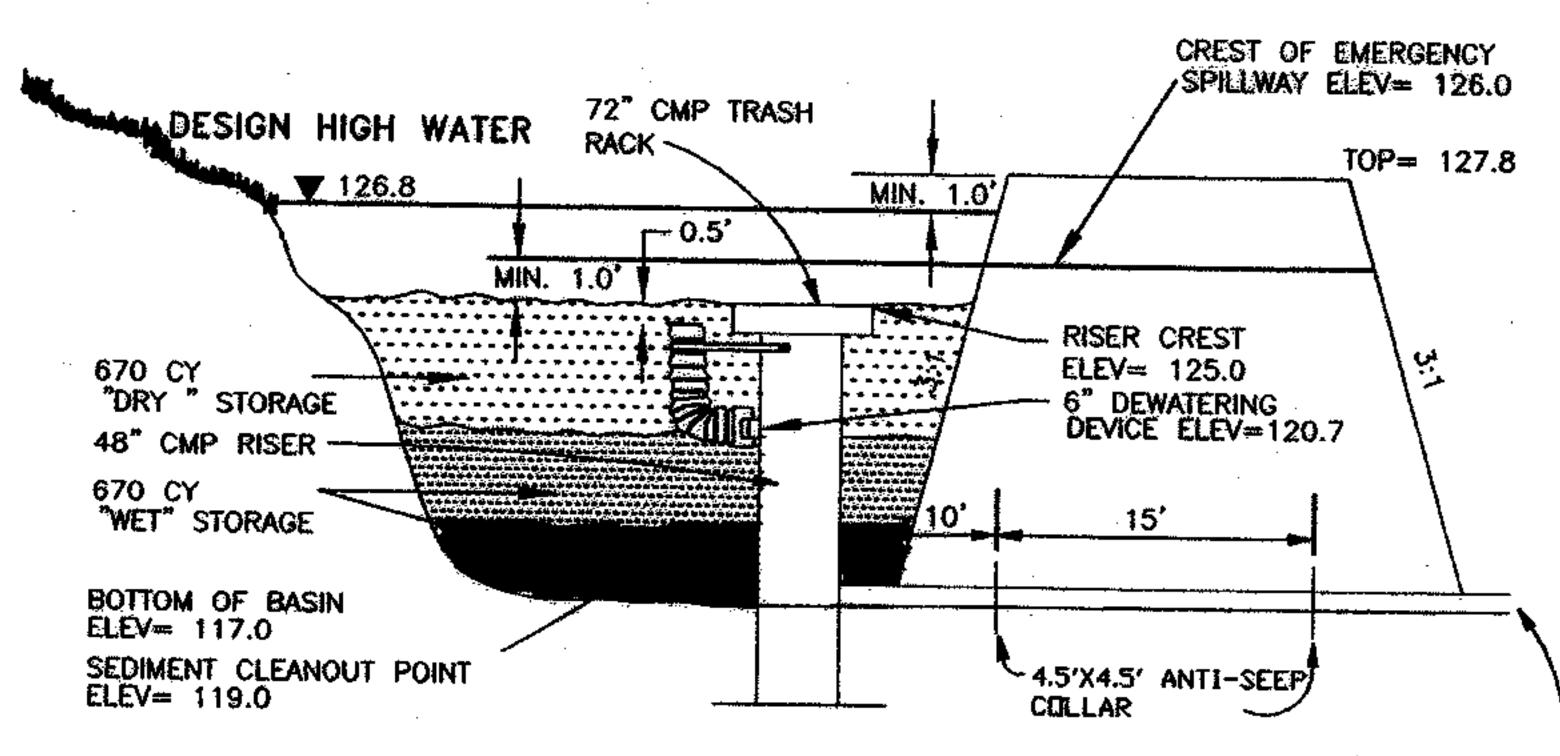
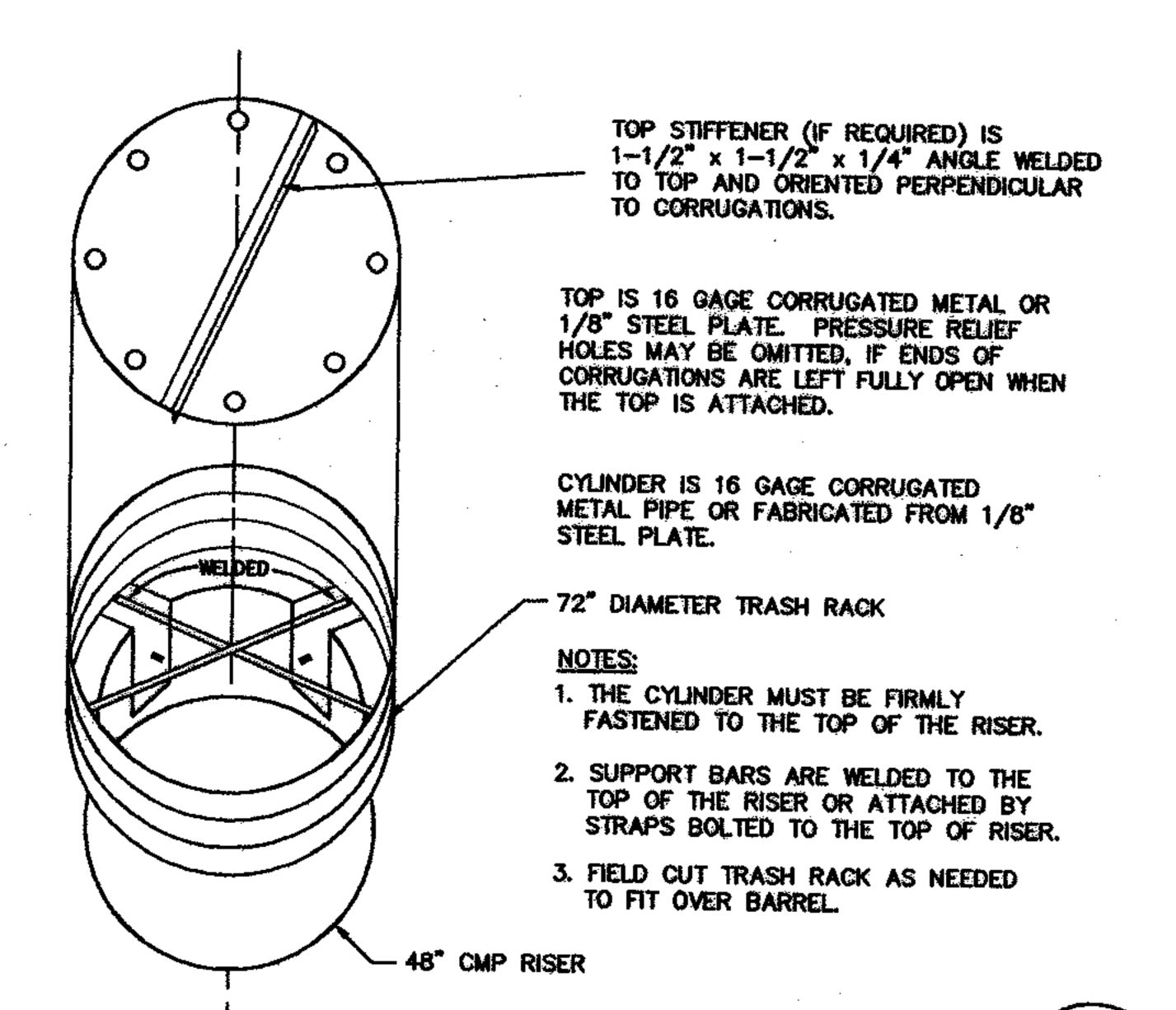


TEMPORARY SEDIMENT BASIN "C"

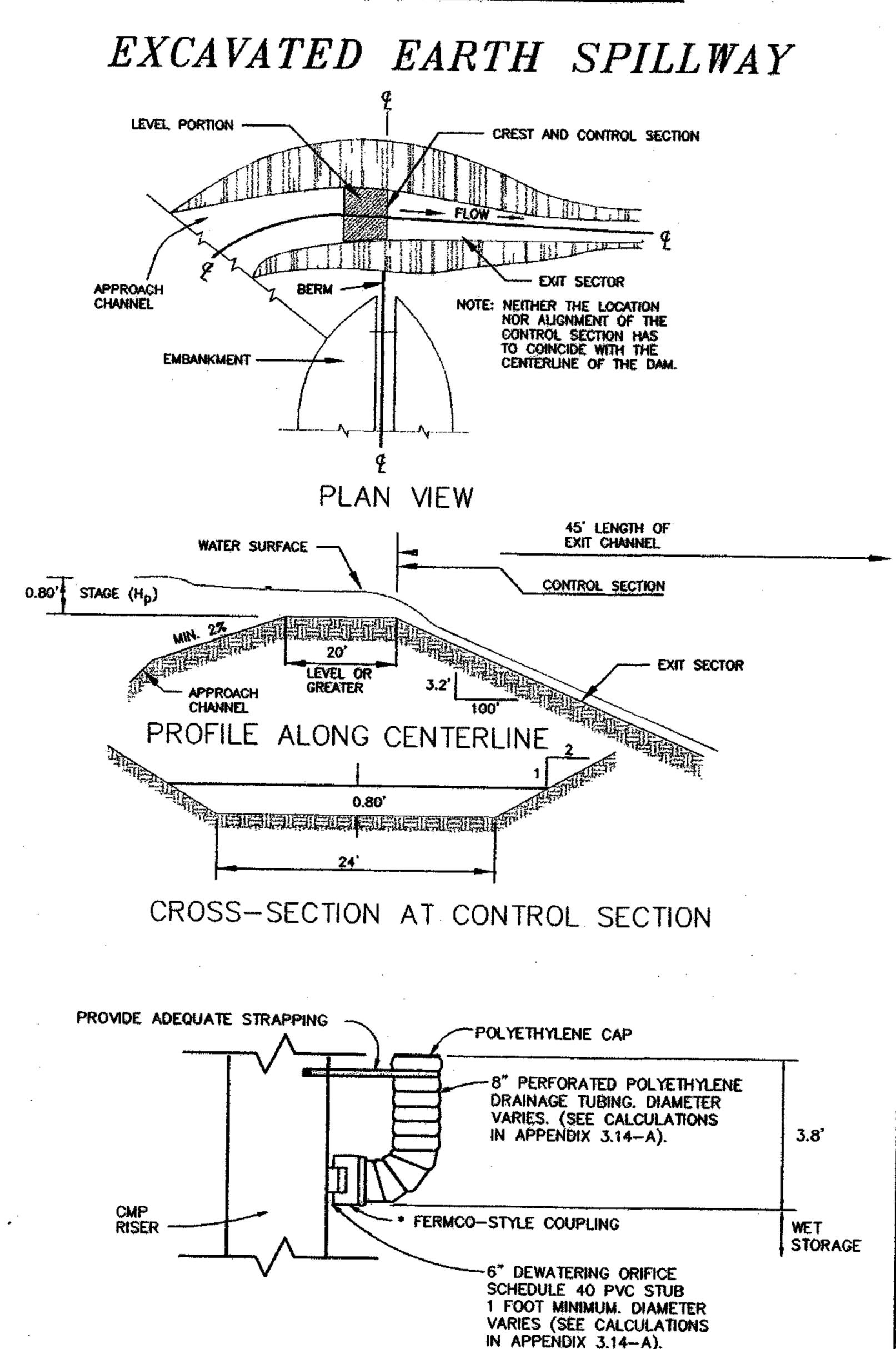
SEDIMENT BASIN "C" SCHEMATIC ELEVATIONS



DESIGN ELEVATIONS WITH 64 LF OF 36" CMP @ 0.50% EMERGENCY SPILLWAY INV. OUT= 120.38



TRASH RACK DETAIL



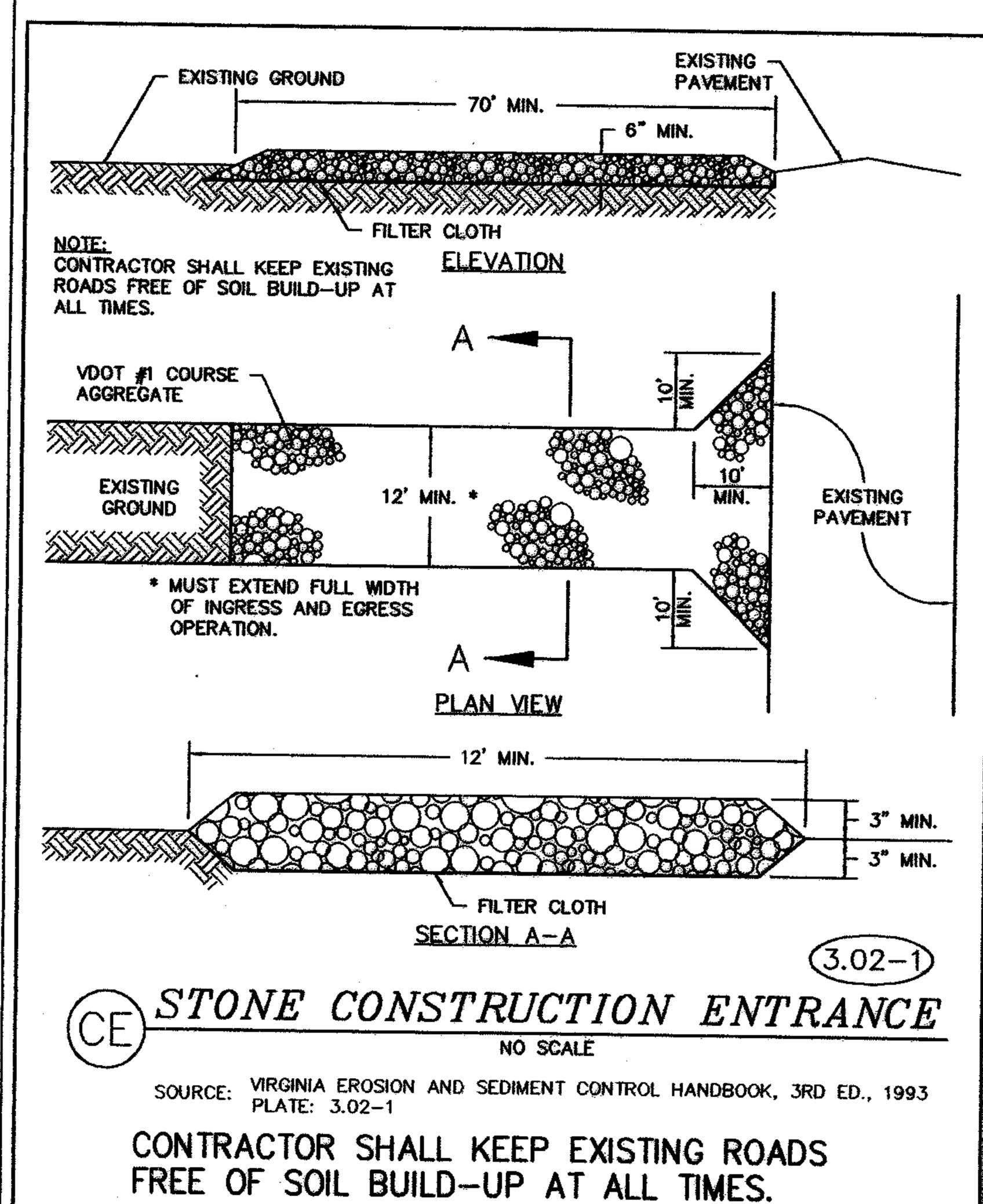
RECOMMENDED DEWATERING SYSTEM

NOTE: WITH CONCRETE RISER, USE PVC SCHEDULE 40 STUB

* DRAINAGE TUBING SHALL COMPLY WITH ASTM F667 AND AASHTO M294

FOR DEWATERING ORIFICE.

FOR SEDIMENT BASINS



EROSION AND SEDIMENT CONTROL MININUM STANDARDS

1. Permanent or temporary seeding soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant (undisturbed) for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.

2. During construction of the project, soil stockpiles shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.

3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that, in the opinion of the local program administrator or his designated agent, is uniform, mature enough to survive and will inhibit erosion.

4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.

5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation. 6. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or

equal to three acres shall be controlled by a sediment basin. The sediment basin shall be designed and constructed to accommodate the anticipated sediment loading from the land-disturbing activity. The outfall device or system design shall take into account the total drainage area flowing through the disturbed area to be served by the basin. 7. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion.

Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.

8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.

9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. 10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise

11. Before newly constructed stormwater conveyance channels are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.

2. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover material.

13. When construction vehicles must cross a live watercourse more than twice in any six-month period, a temporary stream crossing constructed of nonerodible material shall be provided. 14. All applicable federal, state and local regulations pertaining to working in or crossing live

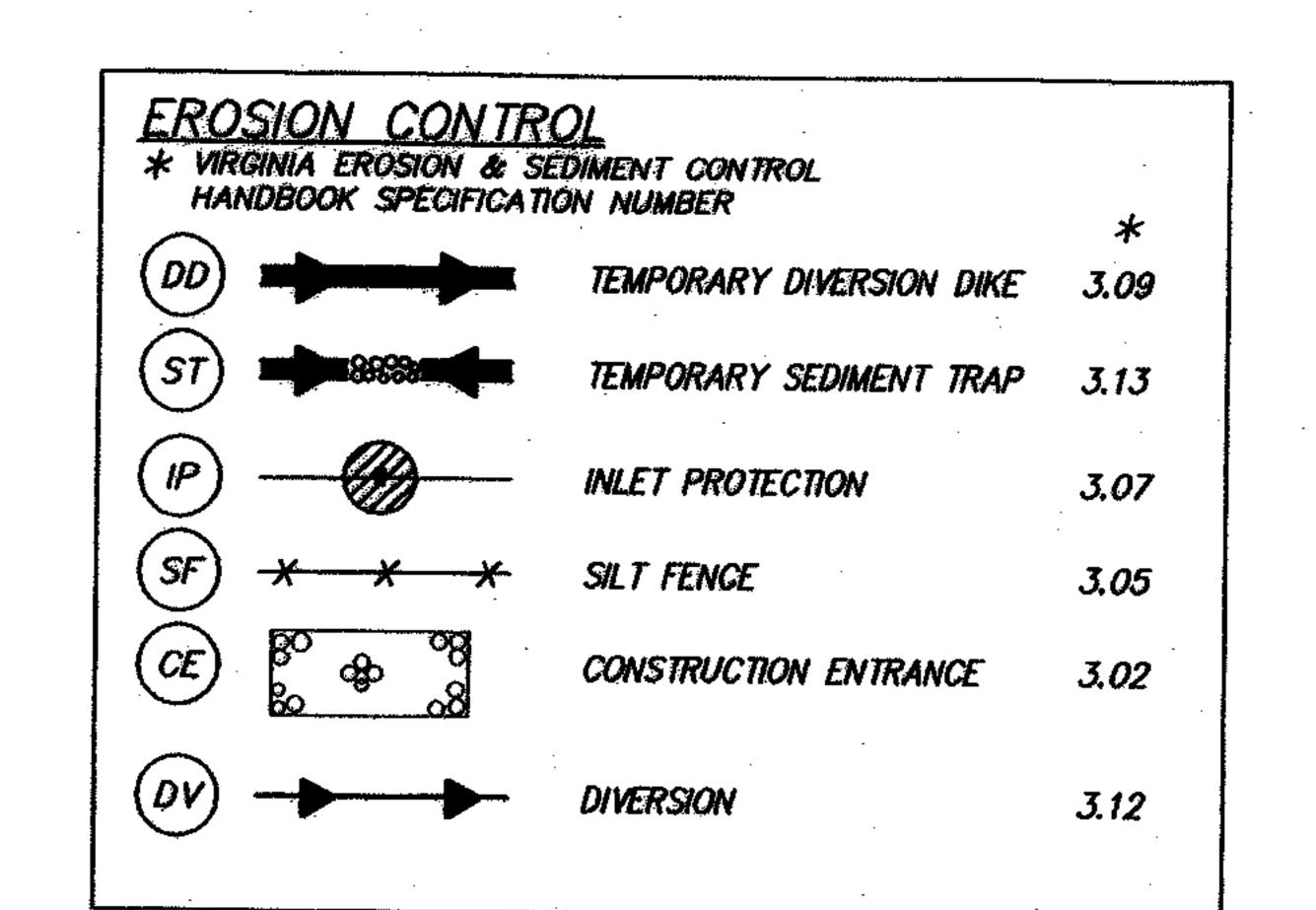
15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse

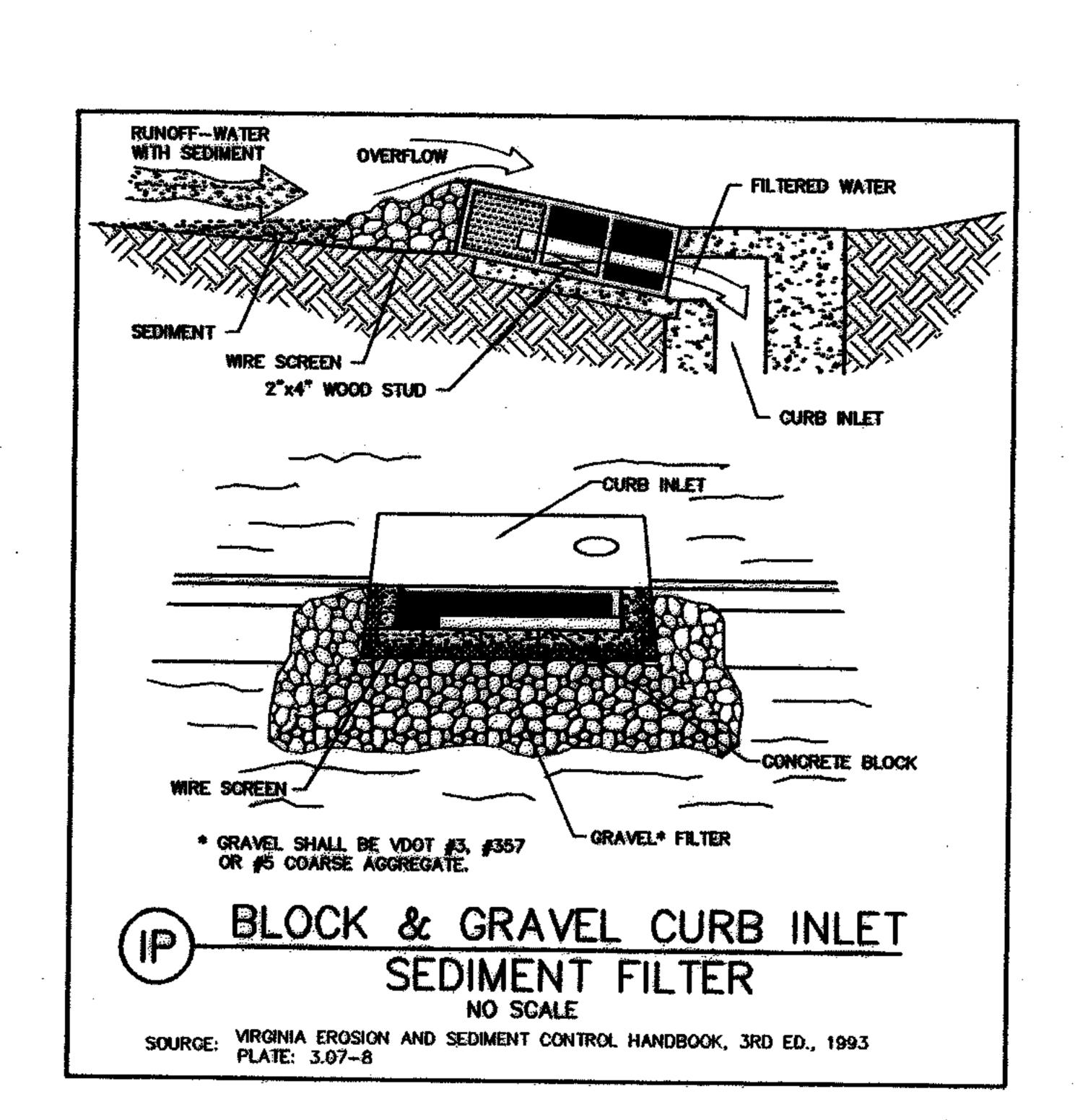
16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria: a. No more than 500 linear feet of trench may be opened at one time. b. Excavated material shall be placed on the uphill side of trenches. c. Effluent from dewatering operations shall be filtered or passed through approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or

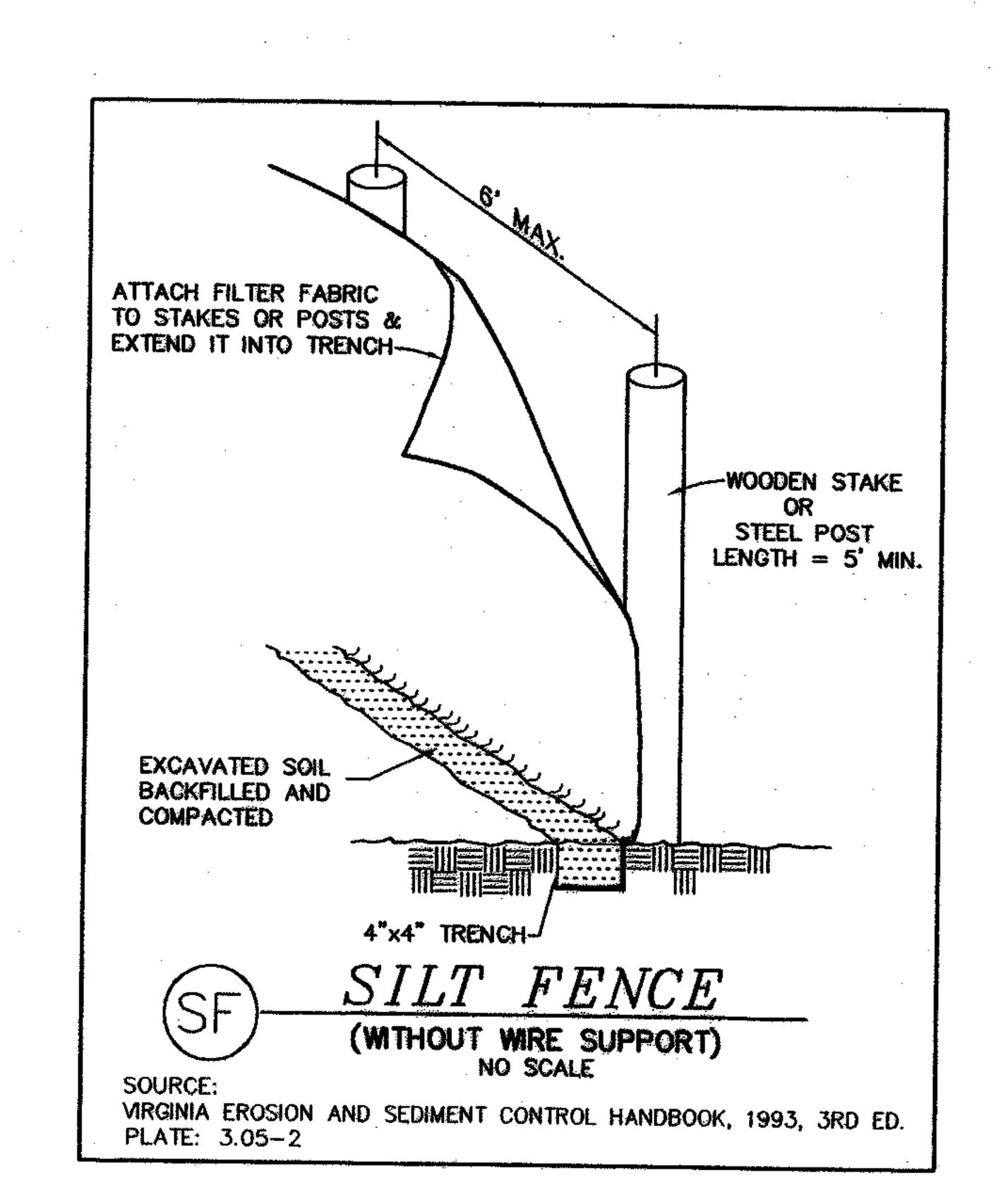
off-site property. d. Restabilization shall be accomplished in accordance with these regulations e. Applicable safety regulations shall be complied with.

17. Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a public road surface, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger

18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the local program administrator. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and







EROSION CONTROL NARRATIVE

This 35.91 acre site is to be developed as a new section of residential ' subdivision. The site is currently sits on undeveloped and forested acerage in between existing sections 8,14, and 164 of the Branchester Lakes development. Slopes range from 2% to 7% percent with an average of around 4% on most the property. High points exist on the south side of the site, along Willow Oak Drive, creating a natural drainage channel to the basins on the North side of the site. No critical areas of erosion are present. The proposed basins will capture the majority of the proposed development, along with a significant amount of off-site areas. These basins will outfall into the existing channel that separates Section 17 from Section 16. A small part of , the runoff will discharge directly into the channel on the western side of the development. Runoff from disturbed areas will be treated with temporary sediment basins, then released into the existing channel as per plan. Soils in this area are made up of a combination of Montross Silt Loam, Aycock Silt Loam, Ackwater Silt Loam, and Emporia fine Sandy Loam.

EROSION CONTROL SEQUENCE OF EVENTS 1. NOTIFY THE PRINCE GEORGE COUNTY PLANNING DEPT. AT (804) 733-2608 FOR A PRE-CONSTRUCTION MEETING AND ON-SITE VISIT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.

2. INSTALL CONSTRUCTION ENTRANCES, TEMPORARY SEDIMENT BASINS, AND PERIMETER SILT FENCE AS PER PLAN. 3. BEGIN CLEARING AND GRUBBING OPERATIONS. STABILIZE THE SITE WITH VEGETATION AND STRAW MULCH ACCORDING TO STATE

4. INSTALL STORM SEWER, DRAINAGE DITCH, AND UTILITIES AS PER PLAN. . IMMEDIATELY AFTER PLACING BASE STONE AND INSTALATION OF CURB & GUTTER, INSTALL INLET PROTECTION AS PER PLAN.

6. FINISH ROAD CONSTRUCTION AS SHOWN ON PLANS: SEED DENUDED AREAS AS SOON AS POSSIBLE AND MULCH ALL DISTURBED AREAS. INSTALL PAVEMENT.

/. ONCE ROAD CONSTRUCTION IS COMPLETE, AND SITE IS STABILIZED, COMPLETELY FLUSH STORM SEWER STRUCTURES 10 THROUGH 20 TO REMOVE ANY ACCUMULATED SEDIMENT. CONVERT TEMPORARY SEDIMENT BASINS TO PERMANENT STORM WATER MANAGEMENT BASIN AS SHOWN ON SHEETS 3 AND 4. REMOVE RISERS FROM BOTH BASINS AND REMOVE THE 36" CMP IN BASIN "B". INSTALL 12" ORIFICE PLATE ON STRUCTURE # 47. CONSTRUCT THE OUTLET STRUCTURES FOR EACH BASIN.

3. CONTINUING MAINTENANCE PRACTICES SHALL BE PERFORMED TO ENSURE PROTECTION OF DOWNSTREAM PROPERTIES. 9. NO EROSION CONTROL DEVICE SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED.

NOTE: ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE TO BE CONSTRUCTED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION VR 625-02-00.

EROSION CONTROL NOTES

. THE PRINCE GEORGE COUNTY PLANNING OFFICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY PLANS TO BEGIN CLEARING AND GRADING OPERATIONS.

2. THE PLANNING DEPARTMENT AND OTHER INTERESTED COUNTY AGENCIES SHALL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHOD USED AND THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PROGRAM. AN APPROVED EROSION AND SEDIMENT CONTROL PLAN MAY BE AMENDED BY THE PLAN APPROVING AUTHORITY IF ON-SITE INSPECTIONS INDICATE THAT THE APPROVED CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENT OR, IF BECAUSE OF CHANGED CIRCUMSTANCES. THE APPROVED PLAN CANNOT BE CARRIED OUT.

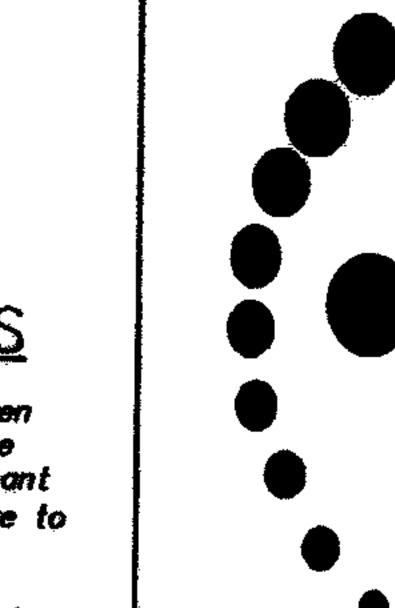
3. EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL GRASS HAS BEEN ESTABLISHED ON THE EXPOSED SOIL SURFACES. STRUCTURES SHALL BE PLACED PRIOR TO CLEARING AND GRADING. 4. CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE CRITERIA AND SPECIFICATIONS CONTAINED

IN THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. 5. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEAN UP

6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT AND SEDIMENTATION AS DETERMINED BY TH ENVIRONMENTAL ENGINEERING DEPARTMENT.

8. ALL YEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION VR 625-02-00.



CHECKED BY D. JOHNSON SCALE

DRAWN BY

B.CRUTCHFIELD

'CRUTCHFIELD