EROSION AND SEDIMENT CONTROL PLAN
NARRATIVE

DESCRIPTION

THIS PROJECT IS A PROPOSED SINGLE FAMILY RESIDENTIAL SUBDIVISION CONSISTING OF APPROXIMATELY 66 ACRES OF LAND WITH AN ULTIMATE DEVELOPMENT OF 118 LOTS. GROUND DISTURBANCE SHALL PRIMARILY BE WITHIN ROADWAYS AND UTILITY AND DRAINAGE EASEMENTS; HOWEVER, DUE TO THE NATURE OF CERTAIN PORTIONS OF THIS PROPERTY, REGRADING OF THESE PORTIONS MAY BE REQUIRED.

EXISTING CONDITIONS

THE SITE IS MODERATELY TO HEAVILY WOODED WITH PRIMARILY SMALL TREES SUGGESTING TIMBERING ACTIVITIES IN THE RECENT PAST. SLOPES ARE FLAT TO STEEP RANGING FROM 0% TO 20%.

SURROUNDING AREAS

THE PROPERTY RECEIVES SHEET AND CONCENTRATED FLOWS FROM THE PROPERTY TO THE NORTHWEST. IN ORDER TO AVOID DAMAGE TO THE LOTS ALONG THE PROPERTY LINE, STORM RUNOFF SHALL BE CONVEYED BY DITCHES AND SWALES ALONG LOT LINES TO THE STORM DRAINAGE SYSTEM.

CRITICAL AREAS

THE PRIMARY AREAS OF CONCERN ARE THE EXISTING POND WHICH CURRENTLY COLLECTS THE DRAINAGE FOR THE WESTERN PORTION OF THE PROPERTY, THE OFFSITE STREAM THROUGH WHICH RUNOFF CURRENTLY FLOWS, AND THE OUTFALL WHICH CURRENTLY DRAINS THE EASTERN PORTION OF THE PROPERTY.

EROSION AND SEDIMENT CONTROL MEASURES

SINCE THE ULTIMATE DRAINAGE PATTERN IS DIFFERENT FROM THE EXISTING PATTERN, SEDIMENT CONTROL WILL BE TWO PART. DURING THE CLEARING AND GRADING PHASES OF CONSTRUCTION, SEDIMENTATION WILL BE CONTROLLED BY SEDIMENT TRAPS PLACED ACROSS THE EXISTING OUTFALLS. AFTER CONSTRUCTION OF THE STORM SEWER SYSTEM, AND BEFORE STABILIZATION, INLET PROTECTION DEVICES WILL PROVIDE THE PRIMARY SEDIMENT PROTECTION.

THE ENTRANCE TO THE SITE SHALL HAVE A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLED BEFORE ON-SITE WORK BEGINS.

REMOVAL OF POND

THE EXISTING POND WILL BE USED AS A TEMPORARY SEDIMENT BASIN DURING CONSTRUCTION. THE FIRST STEP WILL BE TO FILL THE CORNER OF THE POND ENOUGH TO FACILITATE CONSTRUCTION OF THE SANITARY AND STORM SEWER. AFTER CONSTRUCTION OF THE UTILITIES IS COMPLETE, COMPLETE THE GRADING PLAN EXCEPT FOR THE LOWER PORTION OF THE POND. ONCE THE UPSTREAM AREAS ARE STABILIZED, FINISH FILLING THE POND ACCORDING TO THE GRADING PLAN.

PERMANENT STABILIZATION

ALL DENUDED AREAS SHALL BE SEEDED AND MULCHED WITHIN FIFTEEN (15) DAYS OF ATTAINING FINISHED GRADE IN ACCORDANCE WITH THE SEEDING SCHEDULE IN THE GENERAL NOTES. THIS DOES NOT INCLUDE AREAS WHICH WILL BE COVERED WITH STONE, I.E. ROADWAYS, ETC.

MAINTENANCE

ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE CHECKED DAILY BY THE SITE FOREMAN TO ASCERTAIN THEIR CURRENT EFFECTIVENESS. ANY STRUCTURE THAT IS NOT PERFORMING ADEQUATELY SHALL BE RECONSTRUCTED OR REPLACED AS REQUIRED.

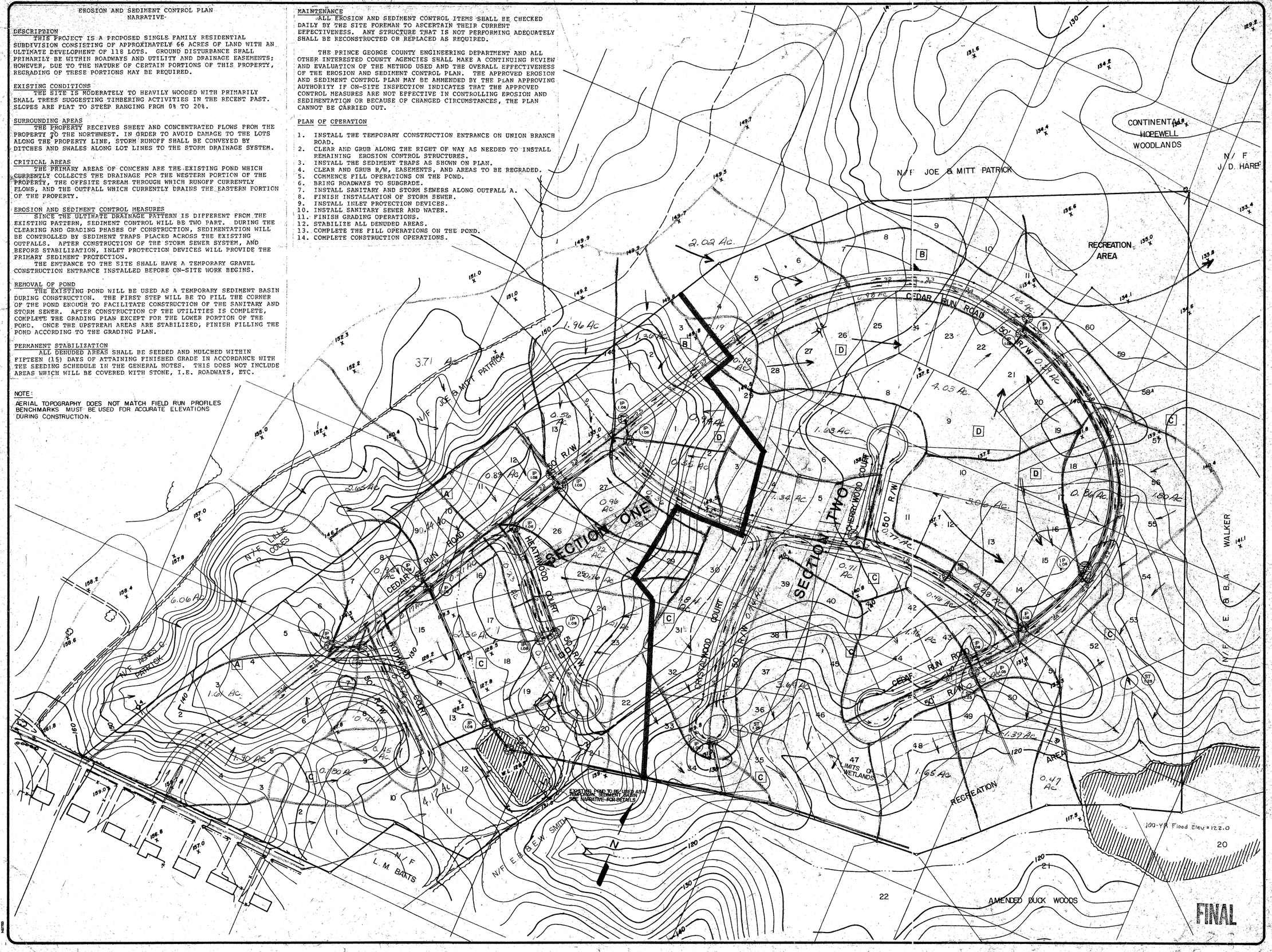
THE PRINCE GEORGE COUNTY ENGINEERING DEPARTMENT AND ALL OTHER INTERESTED COUNTY AGENCIES SHALL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHOD USED AND THE OVERALL EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL PLAN. THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MAY BE AMMENDED BY THE PLAN APPROVING AUTHORITY IF ON-SITE INSPECTION INDICATES THAT THE APPROVED CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION OR BECAUSE OF CHANGED CIRCUMSTANCES, THE PLAN CANNOT BE CARRIED OUT.

PLAN OF OPERATION

1. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE ON UNION BRANCH ROAD.
2. CLEAR AND GRUB ALONG THE RIGHT OF WAY AS NEEDED TO INSTALL REMAINING EROSION CONTROL STRUCTURES.
3. INSTALL THE SEDIMENT TRAPS AS SHOWN ON PLAN.
4. CLEAR AND GRUB R/W, EASEMENTS, AND AREAS TO BE REGRADED.
5. COMMENCE FILL OPERATIONS ON THE POND.
6. BRING ROADWAYS TO SUBGRADE.
7. INSTALL SANITARY AND STORM SEWERS ALONG OUTFALL A.
8. FINISH INSTALLATION OF STORM SEWER.
9. INSTALL INLET PROTECTION DEVICES.
10. INSTALL SANITARY SEWER AND WATER.
11. FINISH GRADING OPERATIONS.
12. STABILIZE ALL DENUDED AREAS.
13. COMPLETE THE FILL OPERATIONS ON THE POND.
14. COMPLETE CONSTRUCTION OPERATIONS.

NOTE:

AERIAL TOPOGRAPHY DOES NOT MATCH FIELD RUN PROFILES BENCHMARKS MUST BE USED FOR ACCURATE ELEVATIONS DURING CONSTRUCTION.



CHARLES C. TOWNES & ASSOCIATES
Engineers, Planners, Land Surveyors
110 Norfolk Ave., P.O. Box 97
Colonial Heights, Va. 23834
804-526-6766

COMMONWEALTH OF VIRGINIA
CHARLES E. TOWNES
CERTIFICATE No. # 10478
PROFESSIONAL ENGINEER

CEDARWOOD
SECTIONS ONE & TWO
RIVES DISTRICT
PRINCE GEORGE COUNTY, VIRGINIA

HYDRAULIC ANALYSIS / EROSION CONTROL

REVISIONS	
DATE	ITEM
9-26-88	
6-23-89	
4-14-91	larger lots
4-8-91	

DATE: 1/6/86
SCALE: 1" = 100'
DRAWN BY: HJH
CHECKED BY: SRH
F.B. #:
SHEET #: 1-H