

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THE PROJECT CONSISTS OF 57 SINGLE FAMILY LOTS. PUBLIC UTILITIES ARE PLANNED. TOTAL PROJECT AREA IS 31.2 ACRES. TOTAL DISTURBED AREA IS APPROXIMATELY 15.0± ACRES.

EXISTING SITE CONDITIONS
THE SITE IS WOODED WITH EXISTING SLOPES OF 5% TO 10% ALONG THE CREEK, ALONG THE NORTH AND WEST PROPERTY LINES THE SLOPE GENERALLY RUNS AT 40%. DRAINING TO AN EXISTING WATERCOURSE ON THE EAST SIDE.

ADJACENT PROPERTIES:
ADJACENT PROPERTIES ARE RESIDENTIAL IN USE ON THE EAST AND SOUTH AND UNDEVELOPED TO THE WEST AND NORTH.

OFF-SITE AREAS:
NO OFFSITE AREAS WILL BE ADVERSELY IMPACTED BY THIS DEVELOPMENT.

SOILS:
ON SITE SOILS WERE IDENTIFIED ON THE "GENERALIZED SOIL PARENT MATERIAL MAP" OF ROANOKE VIRGINIA. SOILS IN THIS AREA ARE GENERALLY IDENTIFIED AS 13A, AND 49B, C, D CLASSIFIED AS DERROC COBBLY SANDY LOAM AND TUMBLING LOAM..

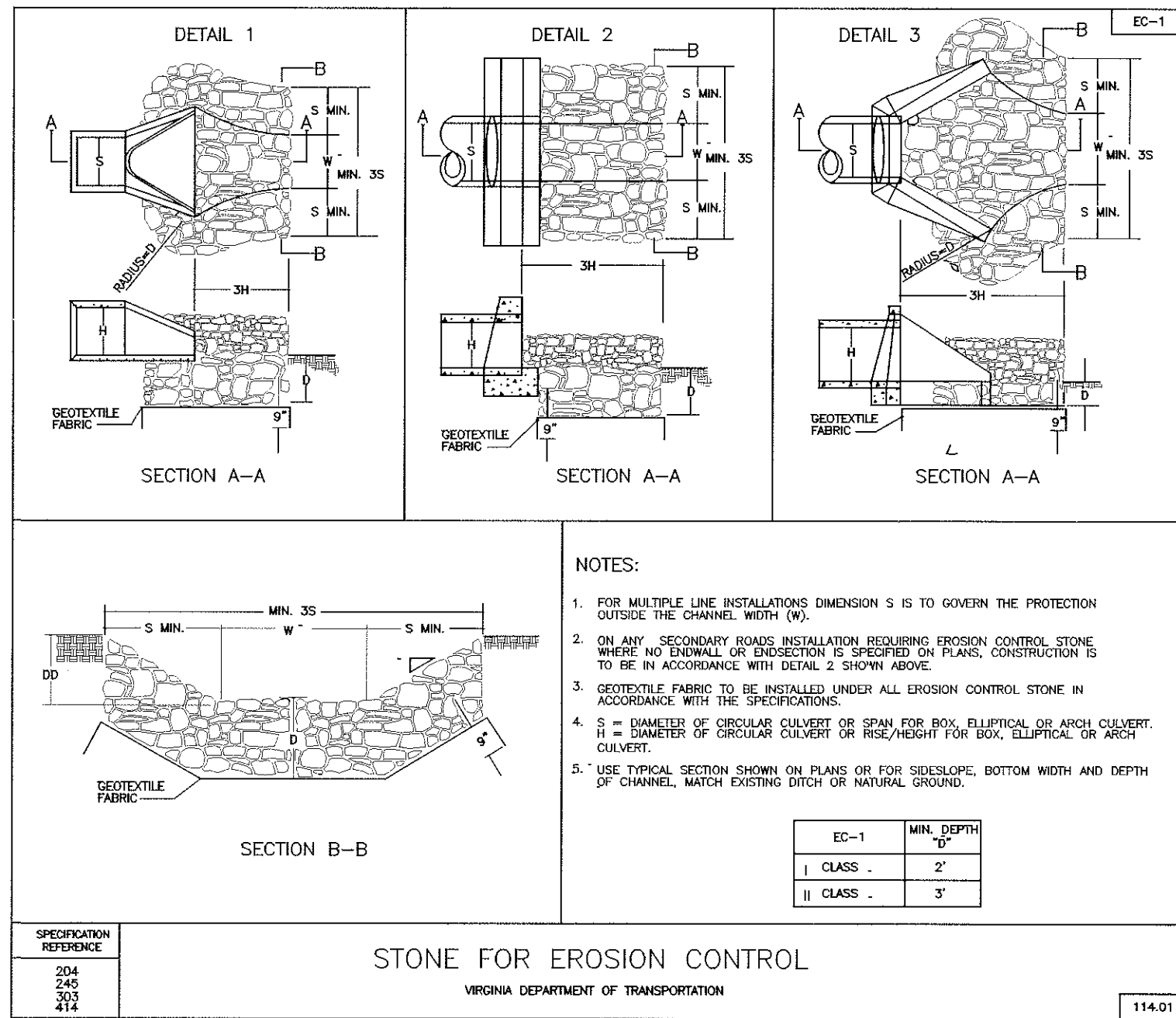
CRITICAL EROSION AREAS:
DUE TO THE SLOPING CONDITION OF THE SITE IT IS CRITICAL TO KEEP ALL SOIL OUT OF THE CREEK ON THE EASTERN PROPERTY LINE. SEDIMENT BASINS, DIVERSION AND SILT FENCE WILL BE USED TO PROTECT THE EXISTING CREEK.

MANAGEMENT STRATEGIES:
1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
2. THE GRAVEL CONSTRUCTION ENTRANCE WILL BE INSTALLED AS A FIRST STEP IN CONSTRUCTION.
3. SILT FENCE WILL BE INSTALLED AS A SECOND STEP IN CONSTRUCTION.
4. OTHER MEASURES WILL BE INSTALLED AS WORK PROGRESSES INTO THOSE AREAS.
5. TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
6. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
7. AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE CLEANED AND

PERMANENT STABILIZATION:
ALL AREAS DISTURBED BY CONSTRUCTION WHICH DO NOT RECEIVE BUILDINGS OR PAVING SHALL BE STABILIZED WITH PERMANENT SEEDING AS SPECIFIED. ALL SEEDING SHALL BE TACKED AND MULCHED AND PLACED IMMEDIATELY AFTER REACHING FINISHED GRADE. THE PARKING AREA SHALL RECEIVE PAVING.

STORM WATER MANAGEMENT:
TWO STORM WATER MANAGEMENT FACILITIES ARE PLANNED FOR THIS DEVELOPMENT. THE FIRST POND WILL BE LOCATED AT THE ENTRANCE TO THE PROPERTY AND WILL RECEIVE RUNOFF FOR SECTIONS 1 AND 2. THE SECOND POND WILL BE LOCATED AS SHOWN AND WILL RECEIVE RUNOFF FROM SECTION 3.

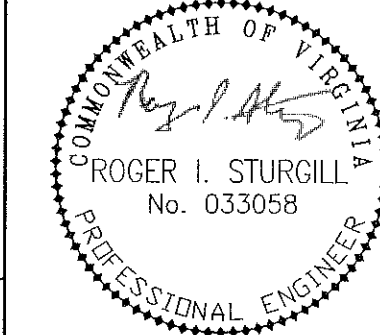
MAINTENANCE:
IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:
1. SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES HALFWAY TO THE TOP OF THE BARRIER.
2. THE SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEED AS NEEDED.
3. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES IMMEDIATELY AFTER EACH SIGNIFICANT RAINFALL AND DAILY DURING PERIODS OF PROLONGED OR HEAVY RAINFALL AND REPAIR ALL STRUCTURES AS NECESSARY WITHIN 48 HOURS.



| STR | D50 | 300 | D0 | LA | W | STONE |
|-----|------|-------|-------|--------|--------|------------|
| 1 | 6" | 3.75' | 1.25' | 8.00' | 9.25' | EC-1 CL I |
| 5 | 1.0' | 3.75' | 1.25' | 20.00' | 12.25' | EC-1 CL I |
| 16 | 6" | 3.00' | 1.00' | 9.00' | 10.00' | EC-1 CL I |
| 17 | 6" | 3.75' | 1.25' | 8.00' | 9.25' | EC-1 CL I |
| 23 | 8" | 3.75' | 1.25' | 12.50' | 13.75' | EC-1 CL I |
| 31 | 6" | 3.00' | 1.00' | 11.00' | 12.00' | EC-1 CL I |
| 32 | 8" | 4.50' | 1.50' | 13.00' | 17.50' | EC-1 CL II |
| 44 | 6" | 3.75' | 1.25' | 11.00' | 14.75' | EC-1 CL II |
| 57 | 1.0' | 9.00' | 3.00' | 29.00' | 32.00' | EC-1 CL II |
| 58 | 6" | 3.75' | 1.25' | 9.25' | 10.50' | EC-1 CL I |

EROSION & SEDIMENT CONTROL NOTES

1. PROVIDE CONSTRUCTION MATERIALS AND METHODS IN ACORDANCE WITH ALL STATE AND LOCAL REGULATIONS, INCLUDING THE STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION. REFER TO THIS HANDBOOK FOR DETAILS AND SPECIFICATIONS OF EROSION CONTROL DEVICES.
2. SCHEDULE A PRECONSTRUCTION MEETING INVOLVING THE ENGINEER, DEVELOPER'S REPRESENTATIVE AND SELECTED CONTRACTOR ON SITE PRIOR TO BEGINNING CONSTRUCTION.
3. ADHERE TO THE EROSION AND SEDIMENT CONTROL NARRATIVE AS PART OF THIS CONTRACT. INSTALL EROSION CONTROL DEVICES AS PER THE NARRATIVE/PLAN.
4. NOTIFY THE PROJECT ENGINEER WHEN THE LOCAL GOVERNING OFFICIAL HAS INSPECTED AND APPROVED ALL IN-PLACE EROSION AND SEDIMENT CONTROL DEVICES, REQUIRED BY LOCAL ORDINANCES TO BE IN PLACE PRIOR TO LAND DISTURBANCE.
5. NOTIFY THE PROJECT ENGINEER 24 HOURS IN ADVANCE OF BEGINNING CLEARING AND GRADING OPERATIONS.
6. DISPOSE OF EXCESS EXCAVATION, AS WELL AS ALL ORGANIC MATTER AND DEBRIS, OFF SITE.
7. SEED AND MULCH OR TEMPORARILY STABILIZE ALL DENUDED AREAS WITHIN SEVEN DAYS OF DISTURBANCE. SEED TRENCHES IMMEDIATELY FOLLOWING BACKFILL.
8. REMOVE ALL DEMOLISHED MATERIAL FROM THE PROJECT SITE AND DISPOSE OF IN AN ACCEPTABLE LOCATION.
9. REINSTALL ANY STRUCTURE(S) RELOCATED AND/OR REMOVED DURING THE INSTALLATION OF THE PROPOSED IMPROVEMENTS AT NO ADDITIONAL COST TO OWNER.
10. INSPECT ESC MEASURES WEEKLY AND AFTER EACH RAINFALL TO INSURE PROPER FUNCTIONING.
11. AVOID CONSTRUCTION TRAFFIC IN NATURAL STREAMS AND DRAINAGE WAYS WHENEVER POSSIBLE.
12. REMOVE ALL SILT FROM STREAMS AND DRAINAGE WAYS PRIOR TO BOND RELEASE.
13. CONVERT SEDIMENT BASINS INTO THE STORMWATER MANGEMENT FACILITIES.



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HANGING ROCK TERRACE
SECTION 1, 2 & 3
EROSION CONTROL PLAN
CATAWBA MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

DRAWN BY: DRB
DESIGNED BY: DRB
CHECKED BY: RIS
DATE: NOV. 1, 2002

REVISIONS:
04-02-03
11-04-03
03-30-04
05-12-04

SCALE: 80'

SHEET NO.

6 OF 11

JOB NO.
R0200117.00

