

SEDIMENT CONTROL NOTES

- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTION, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION, (313-1850).
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE MOST CURRENT "MARYLAND STANDARDS AND SPECIFICATION FOR SOIL EROSION AND SEDIMENT CONTROL", REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 12, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOD (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7. SITE ANALYSIS:

TOTAL AREA OF SITE ____1.27±____ ACRES 0.33 ACRES
0.00 ACRES AREA DISTURBED AREA TO BE ROOFED OR PAVED 0.10 ACRES 3,208 CU YDS AREA TO BE VEGETATIVELY STABILIZED TOTAL CUT TOTAL FILL 0.00 SPOIL ON SITE CU YDS OFFSITE WASTE/BORROW AREA LOCATION

- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACK FILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDBED PREPARATION

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ON OF THE FOLLOWING SCHEDULES:

- PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0- UREAFORM FERTILIZER (9 LBS/1000 SQ FT).
- 2. ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ FT) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ FT) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THROUGH APRIL 30 AND AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ FT) OF KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (.05 LBS/1000 SQ FT) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THROUGH FEBRUARY 28 PROTECT SITE BY OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS PER ACRE OF KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE OF WELL ANCHORED STRAW.

MULCHING: APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ FT) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ FT) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ FT) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDBED PREPARATION

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: APPLY 600 LBS PER ACRF 10-10-10 FERTILIZER (14 LBS/1000 SQ FT).

SEEDING: FOR PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15. SEED WITH 2-1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ FT), FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (.07 LBS/1000 SQ FT). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

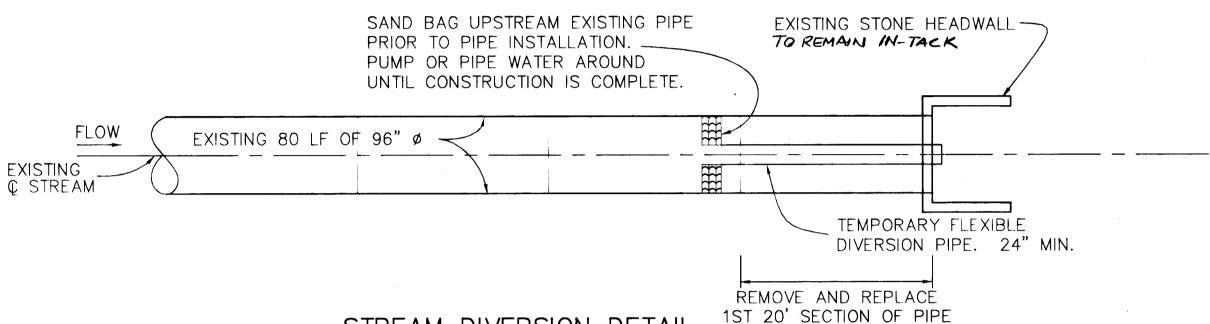
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REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

APPROVED: HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS.

SEQUENCE OF CONSTRUCTION TO REMOVE THE 96" DIAMETER STORM DRAIN CULVERT AND REPLACE WITH A 96" DIAMETER CULVERT.

- 1. OBTAIN PERMITS. DAY I
- 2. FIELD VERIFY ALL EXISTING UTILITY LOCATION AND DEPTH. DAY 2-3
- 3. REMOVE EXISTING COVERED PORCH PRIOR TO ANY CONSTRUCTION. (SAVE AND STORE ALL USEABLE MATERIALS FOR RESTORATION OF THE PORCH PER OWNER'S INSTRUCTION.) DAY 4-6
- 4. WORK SHOULD BE PERFORMED DURING THE DRY SEASON WHEN WATER LEVEL IN THE STREAM IS MINIMAL. NOTE THAT THIS STREAM IS A CLASS I AND ITS RESTRICTION FOR CONSTRUCTION IS FROM MARCH 1 TO JUNE 15. CONTRACTOR MUST TAKE PRECAUTION TO ENSURE THE FLOW AND THE INTEGRITY OF THE STREAM.
- 5. THE STREAM BASE FLOW SHALL REMAIN FLOWING THROUGH THE PIPE AT ALL TIMES. PRIOR TO REMOVAL AND INSTALLATION FIRST 20 FOOT SECTION OF 96 INCH DIAMETER PIPE, A SAND BAG DIKE SHALL BE PLACED IMMEDIATELY UPSTREAM WITH A FLEXIBLE PIPE TO PASS THE IMPOUNDED WATER. IF THE BASE FLOW IS HEAVY, A DEWATERING PUMP SHALL BE USED TO BY-PASS THE WATER. DAY 7
- 6. ALL PIPE WORK SHALL BE DONE IN 20 FOOT SECTIONS ONE AT A TIME.
- 7. BEGIN AT THE DOWNSTREAM STONE HEADWALL.
- 8. USE METAL SHEATHING TO SUPPORT TRENCH BETWEEN HISTORICAL STRUCTURES IF NECESSARY. EXTREME CAUTION SHOULD BE TAKEN NOT TO DISTURB THE FOUNDATION OR STRUCTURAL INTEGRITY OF THE BUILDINGS.
- 9. RFMOVE 20 FEET OF 96" CMP. PREPARE TRENCH BOTTOM AND INSTALL 6 INCHES OF #57 STONE IN BOTTOM OF TRENCH. SHAPE STONE TO CONTOUR OF PIPE INVERT. DAY 7-9
- 10. INSTALL NEW 96" DIAMETER 10 GA ALUMINUM CORRUGATED PIPE AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS, INC. THE REPLACEMENT PIPE SHALL BE INSTALLED IN 20 FOOT
- SECTIONS AND CONSIST OF 106 LINEAR FEET. DAY 10-12 11. COMPACT #57 STONE AROUND THE INVERT OF THE PIPE APPROXIMATELY 16 INCHES THICK, DAY 12.
- 12. THE NEXT 20 FOOT PIPE SECTION SHALL BE INSTALLED. START OVER WITH #6 ABOVE. DAY 13-15
- 13. ONCE THE SECOND 20 FOOT PIPE SECTION IS INSTALLED THE TWO (2) PIPES SHALL BE CONNECTED WITH 9-C CORRUGATED BAND 24" WIDE WITH A 12" X 3/8" FLAT NEOPRÉNE GASKET (ASTM D-1056, GRADE SCE-43-L) AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS, INC. THE BANDS SHALL BE ATTACHED USING 7/16" GALVANIZED RODS (ASTM A-307) GRADE A, CAST IRON LUGS AND ASTM A-563 GRADE C NUTS. DAY 15
- 14. AS SOON AS EACH PIPE CONNECTION IS MADE, THE SAND BAG DIKE SHALL BE REMOVED IN ORDER NOT TO IMPOUND AND DELAY THE STREAM FLOW. DAY IS
- 15. THE ABOVE PROCEDURE SHALL BE PERFORMED FOR THE REMAINING 3 -20 FOOT SECTIONS FOR A TOTAL OF 106 LINEAR FEET. DAY 16 - 20
- 16. THE REMAINING 86 LINEAR FEET OF 96 INCH CMP SHALL BE REMOVED ENTIRELY. THE TOP HALF PORTION OF THE EXISTING PIPE SHOULD BE REMOVED. THE BOTTOM SHALL REMAIN TO ALLOW THE STREAM FLOW TO CONTINUE. DAY 21-22
- 17. PRIOR TO REMOVING THE BOTTOM HALF OF THE EXISTING 96" PIPE, THE STREAM SHALL BE SAND BAGGED (2' MIN.) AT THE UPSTREAM EXISTING HEADWALL AND A FLEXIBLE 24" MIN. PIPE INSTALLED TO ALLOW THE STREAM BASE FLOW TO PASS. THIS SHALL REMAIN IN PLACE UNTIL THE TRAPEZOIDAL CHANNEL IS GRADED AND LINED WITH STONE. DAY 23
- 18. GROUT SHALL BE USED AROUND THE PIPE CIRCUMFERENCE ON DOWNSTREAM PIPE END WHERE THE EXISTING STONE HEADWALL AND PIPE MEET. TINT NEW GROUT WHEN POINTING TO MATCH THE EXISTING GROUT.
- 19. GRADE A TRAPEZOIDAL CHANNEL WITHIN THE EXISTING STREAM WHERE THE 96" PIPE WAS REMOVED FROM. THE BOTTOM WIDTH SHALL BE AT LEAST 8 FEET WIDE WITH SIDE SLOPES OF 2:1 (SEE DETAIL). THE DEPTH SHALL BE A MINIMUM OF 5.6 +/- FEET WIDE AND SLOPE BOTTOM TOWARD CENTER. DAY 24 - 26
- 20. LINE BOTTOM AND SIDES OF TRAPEZOIDAL CHANNEL WITH GABION AND EROSION CONTROL MATTING AS SHOWN IN THE CHANNEL DETAIL (SHEET 2 OF 3). STABILIZED AND PERMANENT SEED THE CHANNEL WITH TALL FESUE. DAY 27-31
- 21. STABILIZE ALL DISTURBED AREAS IN ACCORDANCE WITH THE SEEDING NOTES. DAY 32
- 22. REMOVE STREAM SAND BAGGING AND EROSION & SEDIMENT DEVICES WITH APPROVAL OF SEDIMENT CONTROL INSPECTOR. DAY 33
- 23. RESTORE THE CONSTRUCTION AREA IN-KIND. DAY 34

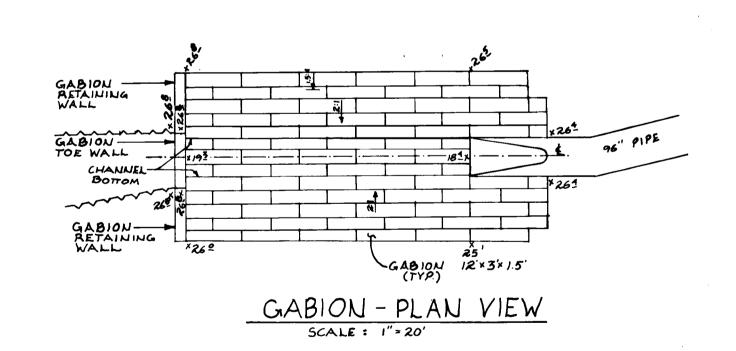


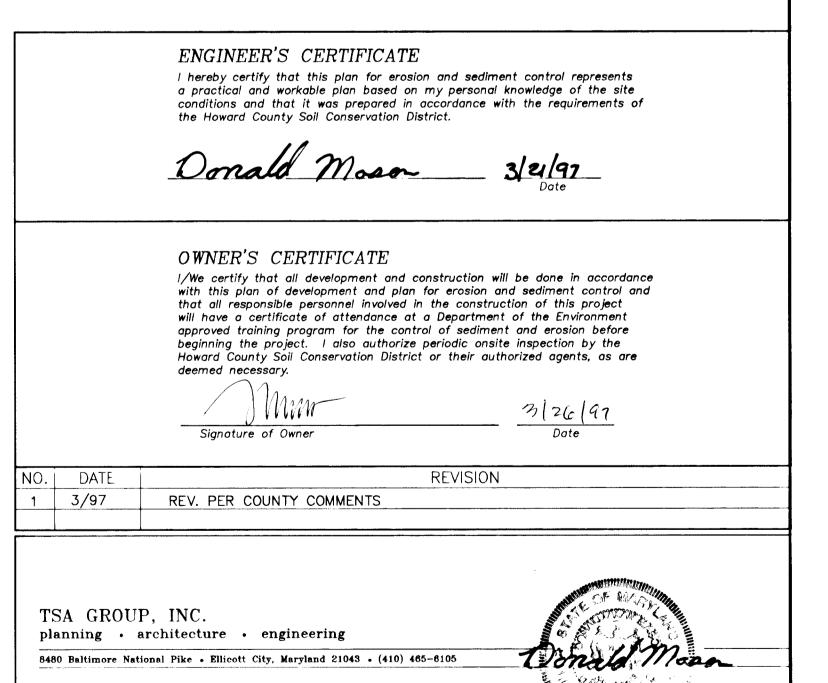
STREAM DIVERSION DETAIL PLAN VIEW

NOT TO SCALE

1.) SAND BAG HEIGHT SHALL BE A MINIMUM OF 2' ONCE THE 20 FOOT PIPE SECTION IS INSTALLED THE FLEXIBLE PIPE CAN BE LAID IN THE NEW PIPE AND ALLOWED TO DISCHARGE DOWNSTREAM

3.) THE EXISTING 96" Ø PIPE SHALL BE REMOVED AND REPLACED STARTING AT THE DOWNSTREAM HEADWALL





OWNER/DEVELOPER: CAPITAL PROJECT D-1119 ELLICOTT CITY PROPERTIES, INC. LOCATION: TAX MAP 25 - PARCEL 260 C/O BARBARA SCHULTE. PRESIDEN 2ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND 4555 ILCHESTER ROAD ELLICOTT CITY, MD. 21043 (410) 788-5025NOTES AND DETAILS NOVEMBER, 1996

SCALE: AS SHOWN

| Draft:

JMC

CAM

Design:

SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT 6-5-97 REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

THIS DEVELOPMENT IS APPROVED FOR EROSION AND

D1077_03

PROJECT NO. 0873

DRAWING $\frac{3}{}$ OF