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i. Description

FILTER BAG DETAIL

1 FILTER BAG SHALL BE PLACED IN A SLIPPING OR LEVEL VELL-VEGETATED S. THE FILTER BAG HUST BE STAKED IN PLATE AND SECURED TO THE PUMP DISCHARGE LINE. 3. FILTER BAG SHALL NOT BE USED FOR DISCHARGE FLOWS GREATER THAN 300 GPM. 4. DEVICE SHALL BE REMOVED AND DISPUSED OF AFTER BAG IS FILLED WITH SEBURENT. SERBHENT FROM BAG SHALL BE SPREAD IN AN UPLANT AREA.

UTILITY NOTES

- 1. OPEN DAILY THAT SECTION OF TRENCH THAT CAN BE BACKFILLED AND STABILIZED
- 2. PLACE ALL EXCAVATED MATERIAL ON UPHILL SIDE OF TRENCH.
- ANY SEDIMENT CONTROLS DISTURBED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY. SEDIMENT CONTROL NOTES
- A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF CONSTRUCTION INSPECTION PRIOR TO THE START OF ANY CONSTRUCTION. (313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 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, SOD, TEMPORARY SEEDING AND MULCHING. 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 N/A ACRES AREA DISTURBED 0.28 ACRES ± AREA TO BE ROOFED OR PAVED 0.01 ACRES ± AREA TO BE VEGETATIVELY STABILIZED 0.27 ACRES ± TOTAL CUT 1600 CU. YDS. TOTAL FIL N/A CU. YDS.
- OFFSITE WASTE/BORROW AREA LOCATION-TO BE DETERMINED BY THE CONTRACTOR. 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 CONTROLS MUST BE PROVIDED IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- 10. 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.

SEQUENCE OF CONSTRUCTION

	TIME OF COMPLETE
1. OBTAIN A GRADING PERMIT FROM HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS.	0.5 WEEKS
2. CONTACT HOWARD COUNTY, BUREAU OF CONSTRUCTION INSPECTION (313-1880) PRIOR TO STARTING DATE.	0.5 WEEKS

- 3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD 1.5 WEEKS COUNTY DESIGN MANUAL, VOL. IV. 4. EXCAVATE AND INSTALL PROPOSED 8"/10"/16" SEWER MAIN AND 6" P.V.C. FORCE MAIN. 8.0 WEEKS DETAILED SEQUENCE BELOW A.) THROUGH I.).
- 5. RESTORE PAVING AND EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD 2.50 WEEKS COUNTY STANDARDS. 6. UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTOR, REMOVE SEDIMENT 0.5 WEEKS
- CONTROL DEVICES. 7. FINE GRADE ALL DISTURBED AREAS AND STABILIZE WITH PERMANENT SEEDING. 1.0 WEEKS

DETAILED SEQUENCE

- A) INSTALL SANDBAG/STONE DIVERSION (W/FILTER BAG DEWATERING DEVICE)
 ON EAST SIDE OF RIVER, THE DIVERSION FOR THIS PHASE
 SHALL BE INSTALLED SO THAT 40% OF THE EXISTING RIVER BED WIDTH REMAINS UNDISTURBED.
- INSTALL PROPOSED 10" MAIN (INCLUDING STREAM EROSION PROTECTION, CONCRETE ENCASEMENT AND GABION BASKETS EACH SIDE OF CONCRETE ENCASEMENT, AS CLOSE TO LIMIT OF DIVERSION AS POSSIBLE WITHOUT COMPROMISING ITS STABILITY OR FUNCTION, TEMPORARILY CAP OR PLUG END OF MAIN, BACKFILL TRENCH, REMOVE TEMP, ACCESS RAMP AND REPAIR EAST RIVER BANK PER DETAILS & STABILIZE ALL DISTURBED AREAS.
- C) RE-ALIGN THE DIVERSION TO CREATE THE CONSTRUCTION AREA ON THE WEST SIDE OF THE RIVER (EXTEND LIMITS BEYOND TEMPORARY CAP/PLUG SUFFICIENTLY TO PERMIT REMOVAL AND CONTINUED CONSTRUCTION) AND INSTALL TEMPORARY ACCESS RAMP.
- D) REMOVE THE TEMPORARY CAP/PLUG AND CONTINUE INSTALLATION OF 10" MAIN (INCLUDING STREAM EROSION PROTECTION, CONCRETE ENCASEMENT AND GABION BASKETS, AS REQUIRED)
- E) BACKFILL TRENCH, REPAIR WEST RIVER BANK PER DETAILS, AND STABILIZE ALL DISTURBED AREAS.
- F) REMOVE DIVERSION AND TEMPORARY ACCESS RAMP AND REPAIR AND/OR STABILIZE ALL RELATED DISTURBED AREAS.
- G) INSTALL REMAINDER OF PROPOSED MAIN.
- H) RESTORE EARTH TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS.
- I) RESTORE AREAS DISTURBED BY CONSTRUCTION

RESTORATION SCHEDULE - 16",10",8" & 6" SAN F.M LOCATION - 16" SAN LENGTH TYPE EX MH 740 TO PROP. MH STA 0+00 TO STA 0+15 SEED & MULCH STA 0+15 TO STA 0+70 55′ PAVING 27′ STA 0+70 TO 1+97 SEED & MULCH 10"/8" SAN MH 1 TO MH 2 STA 0+00 TO STA 1+37 137′ SEED & MULCH MH2 TO MH3 STA 0+00 TO STA 0+35 SEED & MULCH 126' STA 0+60 TO STA 1+86 SEED & MULCH MH 3 TO MH4 STA 0+00 TO STA 2+10 210' SEED & MULCH MH 4 TO MH 5 STA 0+00 TO STA 4+00 400' SEED & MULCH MH 5 TO MH 6 STA 0+00 TO STA 4+00 400' SEED & MULCH MH 6 TO MH 7 STA 0+00 TO STA 2+73 273′ SEED & MULCH MH 7 TO MH8 STA 0+00 TO STA 3+10 310′ SEED & MULCH MH 8 TO MH 9 STA 0+00 TO STA 1+75 175 SEED & MULCH MH 9 TO MH 10 STA 0+00 TO STA 3+50 350 SEED & MULCH 6" SAN FORCE MAIN MH 10 TO EX. VALVE VAULT 1615 SEED & MULCH

"CONDITIONS AND MANAGEMENT PRACTICES WORKING IN NON-TIDAL WETLANDS

1. NO MATERIALS OR EQUIPMENT MAY BE STORED OR STOCKPILED WITHIN NON-TIDAL WETLANDS. 25-FOOT WETLANDS BUFFER OR 100-YEAR FLOODPLAIN.

2. STOCKPILE AND MAINTAIN SEPERATELY THE TOP 6"-12" OF TOPSOIL MATERIAL EXCAVATED FROM NON-TIDAL WETLANDS, TO BE REPLACED AS THE TOP LAYER OF THE BACKFILLED MATERIAL; 3. REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN

UNPLANED DISPOSAL AREA; 4. PLACED MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF

THE NON-TIDAL WETLAND; 5. PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY OPERATE THE EQUIPMENT TO PREVENT DAMAGE TO THE NON-TIDAL WETLANDS.

6. USE PREVIOUSLY EXCAVATED MATERIALS AS BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE, USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL;

7. ALL STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFORUM), MILLET (SETARIA ITALICA), BARELY (HOREDUM SP), OATS (UNIOLA SP) AND/OR RYE (SECALE CEREALE). THESE SPECIES ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF NATURAL WETLAND SPECIES. OTHER NONPERSISTENT VEGETATION MAY BE ACCEPTABLE, BUT MUST BE APPROVED BY THE DIVISION, KENTUCKY 31 FESCUE SHALL NOT BE UTILIZED IN THE WETLAND OR BUFFER AREAS.
THE AREA SHOULD BE SEEDED AND MULCHED TO REDUCE EROSION AFTER
CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

8. AFTER INSTALLTION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATION OF NON-TIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATION:

9. TO PROTECT IMPORTANT AQUATIC SPECIES, IN-STREAM WORK IS PROHIBITED AS DETERMINED BY THE CLASSIFICATION OF THE STREAM AS FOLLOWS:

USE 1 WATERS, IN-STREAM WORK MAY NOT BE CONDUCTED DURING THE PERIOD MARCH 1 THROUGH JUNE 15, INCLUSIVE, DURING ANY

*THESE CONDITIONS ALSO APPLY FOR WORK THAT WILL RESULT IN IMPACTS TO THE 25-FOOT WETLAND BUFFER, F.E.M.A. MAPPED 100 YEAR FLOOD PLAIN, AND REGULATED WATERWAYS.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DATE

Lepson 8/23/00

THICKS ENGINEERING (CO., ENGINEERS, SURVEYORS & PLANNERS 200 EAST JOPPA ROAD - SUITE TOWSON, MARYLAND 21286-3160 **- (**410) 494-0001

1000 sf)

ii. For sites having disturbed area over 5 acres, the rates shown on this table shall be deleted and the

iii. For areas receiving low maintenance, apply ureaform fertilizer (46-0-0) at 3 1/2 lbs/1000 sq.ft. (150

Permanent Seeding Summary

Seeding Depths

lbs/ac), in addition to the above soil amendments shown in the table below, to be performed at the

Fertilizer Rate

Rate

2 tons/ac

(100 lb/

1000 sf)

(10-20-20)

90 lb/ac 175 lb/ac 175 lb/ac

1000 sf) 1000 sf)

(2.0 lb/ (4 lb/ (4 lb/

rates recommended by the soil testing agency shall be written in.

Seeding Dates

(From Table 25)

Rate (lb/ac)

DES: RAI/FW DRN: JAC CHK: DEH DATE: 6/30/00 BY REVISION DATE

NOTES & DETAILS

BLOCKS 9 & 10

ALPHA RIDGE LANDFILL LEACHATE DISPOSAL SYSTEM ELECTION DISTRICT NO.3 HOWARD COUNTY, MARYLAND CAPITAL PROJECT NO. S-6215 CONTRACT NO. 20-3776

SCALE ΑS SHOWN SHEET 4 OF 4