Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
Maryland's Guidelines To Waterway Construction
DETAIL 2.2: IMBRICATED RIPRAP

DEFINITION SKETCH
1. Imbricated Shape Angle (SHA): 16° - 20°
2. Imbricated Level (HL): 12° - 15°
3. Imbricated Vertical (HV): 40° - 45°

SECTION VIEW
- Imbricated depth shall be sufficient to support multimedia. Existing riprap shall be removed to the elevation shown for detailed rock surfacing.
- Riprap shall be angular and have a minimum width equal to the vertical height of the wall.
- Degree of imbrication shall depend on design stone size.
- Top trench and toe trench sizes shall be based on site conditions and the maximum block size to prevent failure due to shear.

PLAN VIEW
- Construction Note: stone blocks shall be oriented into the bank during placement such that the downstream blocks overlap the downstream blocks by a minimum of 3 inches (8 cm).

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Watts Branch Stream Restoration - 100% Plan
Standard Details

Government of the District of Columbia
District Department of the Environment
Washington, D.C. 20002
Tel. (202) 554-2347

U.S. Fish and Wildlife Service
Chesapeake Bay Field Office
Ewing Road, P.O. Box 3207
Annapolis, MD 21403
Tel. (410) 973-4518
USE OF CORRUGATED MAT AND SOIL LIFTS
CROSS SECTION VIEW

HEX TO SCALE

- LIME FIBER MATING FILLED WITH TAMATED MATERIAL THOROUGHLY COMPACTED IN A RICH-BAULCE LIFT
- FILL THROUGH 1.0, 1.5, OR 2 FEET EACH LIFT
- EACH LIFT SHALL EXTEND A MINIMUM OF 1/4 FEET FROM EXTEND END
No stream repairs in PA-1

General Notes:

1. Planting only in Project Area 1. No grading will occur.

2. Planting zones on plan view are approximate (also refer to Channel Planting Detail - Cross Section View on Planting Detail Sheets).

3. Do not disturb existing stream bank vegetation unless invasive. See planting detail sheets for invasive species removal.

4. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park in the street.
General Notes:
1. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park on the street.
2. Location of structures on plan sheets is approximate. For exact locations refer to structure tables.
3. Contractor shall use silt fence approved by the District of Columbia Department of the Environment.

No stream repairs in this part of PA-3
Repair J-Hook arm and backfill with cobble mix. Add splash rocks along vane arm.

Install rock wall behind J-Hook (~25 LF) and backfill with cobble mix.

Install rock wall on right bank between J-Hooks (~25 LF). Backfill structure with cobble mix.

Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
No stream repairs in PA-4
No stream repairs in PA-4

General Notes:
1. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park on the street.
2. Location of structures on plan sheets is approximate. For exact locations refer to structure tables.
3. Contractor shall use silt fence approved by the District of Columbia Department of the Environment.
No stream repairs in this part of PA-5

General Notes:
1. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park on the street.
2. Location of structures on plan sheets is approximate. For exact locations refer to structure tables.
3. Contractor shall use biodegradable silt fence approved by the District of Columbia Department of the Environment.
Watts Branch Stream Restoration - 100% Plans
EROSION AND SEDIMENT CONTROL

Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
General Note:
1. Location of structures on plan sheets is approximate.
   For exact locations refer to structure tables.
Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
No stream repairs on this part of PA-8

General Notes:
1. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park on the street.
2. Location of structures on plan sheets is approximate. For exact locations refer to structure tables.
3. Contractor shall use biodegradable silt fence approved by the District of Columbia Department of the Environment
Access for PA-7 & PA-8 from Nannie Helen Burroughs Ave via SCE

Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
No stream repairs in PA-9

General Notes:

1. No staging of equipment or material is permitted in areas not permitted to park on the street.
2. Location of structures on plan sheets is approximate. For exact location refer to structure tables.
3. Contractor shall erect site fence approved by the District of Columbia Department of the Environment.
4. Do not disturb existing channel geometry pattern or profile in this project area. Structures only in this project area.
No stream repairs in PA-10
Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.
SEQNCE OF CONSTRUCTION

1. CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BEGIN UNTIL ALL REQUIRED PERMITS ARE OBTAINED AND PREVIOUS MEETING HAS BEEN HELD ON SITE.

2. NOTIFY THE PROJECT INSPECTOR AT LEAST FIVE DAYS PRIOR TO THE START DATE FOR INSPECTION.

3. NOTIFY THE DISTRICT OF COLUMBIA DEPARTMENT OF THE ENVIRONMENT, EROSION AND SEDIMENT CONTROL, AT 202-686-3027 OR AT LEAST FIVE DAYS PRIOR TO STARTING CONSTRUCTION.

4. CONTACT "MISU UTU" AT 440-391-0777 AT LEAST THREE DAYS IN ADVANCE OF BEGINNING WORK.

5. STATE OUT STAGING AREAS FOR ENTIRE SITE.

6. CONTACT THE DISTRICT OF COLUMBIA DEPARTMENT OF THE ENVIRONMENT, EROSION AND SEDIMENT CONTROL, AT 202-686-3027 OR AT LEAST FIVE DAYS PRIOR TO STARTING CONSTRUCTION.

7. INSTALL ANY EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON EROSION AND SEDIMENT CONTROL PLANS THAT ARE NOT DIRECTLY RELATED TO PUMP AND PUMP SURFACE.

8. NOTIFY DISTRICT OF COLUMBIA DEPARTMENT OF THE ENVIRONMENT, EROSION AND SEDIMENT CONTROL, OF THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

9. ALL EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES SHOWN ON EROSION AND SEDIMENT CONTROL PLANS THAT ARE NOT DIRECTLY RELATED TO PUMP AND PUMP SURFACE.

10. WITH THE APPROVAL OF THE DISTRICT OF COLUMBIA DEPARTMENT OF THE ENVIRONMENT, EROSION AND SEDIMENT CONTROL, CLEANING AND DISCHARGING SHALL BE CONDUCTED TO MINIMIZE EROSION AND SEDIMENT CONTROL MEASURES KEEP CLEAN.

11. CONSTRUCTION ACTIVITIES INCLUDING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES SHALL NOT BEGIN UNTIL ALL REQUIRED PERMITS ARE OBTAINED AND PREVIOUS MEETING HAS BEEN HELD ON SITE.

12. NO EQUIPMENT SHALL CROSS OR OPERATE ON THE PATH UNTIL CROSSING POINTS UNLESS DAILY LOAD PROTECTION IS INSTALLED.

PHASE 2: STATION 1SB TO 5HD

1. CONSTRUCTION OF PHASE 2 WILL START AT THE UPSTREAM END OF THE WORK AREA AND PROGRESS DOWNSTREAM. ACCESS THE STREAM FROM THE ACCESS CORSO ALIGNED TO HUNT PLACE, AND THEN TRAVEL UP THE STREAM TO REACH THE WORK AREA.

2. INSTALL CLEAN WATER PUMP. CLEAN WATER SHALL BE DISCHARGED INTO THE STREAM DOWNSLATE OF THE STABLE VELOCITY DEPOSITOR MADE OF IMPACTOR OR SAND WASH.

3. WATER FROM THE WORK AREA SHALL BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A SEDIMENT TRAP TO TREMENDOUS IMPACTOR OR SAND WASH.

4. WATER FROM THE WORK AREA SHALL BE PUMPED TO A SEDIMENT FILTERING MEASURE SUCH AS A SEDIMENT TRAP TO TREMENDOUS IMPACTOR OR SAND WASH.

5. ALL GRADING MUST BE STABLED AT THE END OF EACH WORK DAY WITH SEEDS AND SEEDLINGS OR SEED MIXTURES AS SPECIFIED ON THE PLANS.

6. AFTER THE PHASE IS COMPLETED AND STABALIZED, THE CLEAN WATER PUMP SHAL BE DISCHARGED INTO THE STREAM DOWNSLATE OF THE STABLE VELOCITY DEPOSITOR MADE OF IMPACTOR OR SAND WASH.

7. GENERAL NOTES:

   1. No staging of equipment or material is permitted in public space or the right of way. The contractors are not permitted to park on the street.
   
   2. Location of structures on plan sheets is approximate. For exact locations refer to structure tables.
   
   3. Contractor shall use biodegradable silt fence approved by the District of Columbia Department of the Environment.
Note: The Contractor must obtain public space permit for each public space crossing and access road from DDOT.