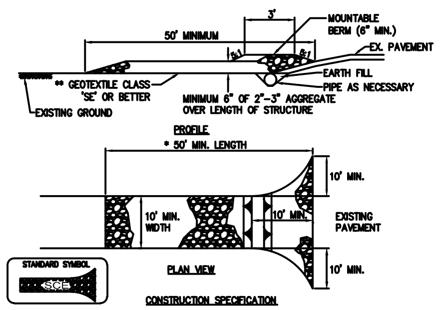
DETAIL 1 - STABILIZED CONSTRUCTION ENTRANCE

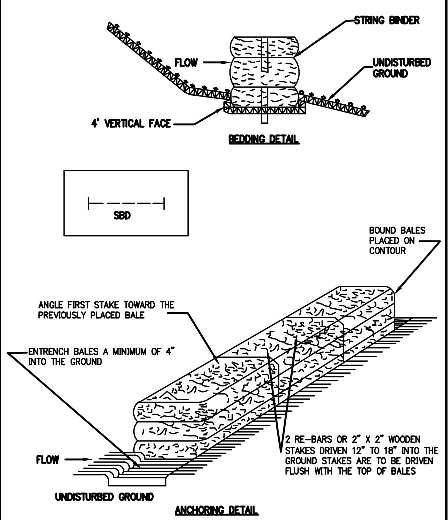


CONSTRUCTION SPECIFICATION

1. LENGTH – MINIMUM OF 50' (*30' FOR SINGLE RESIDENCE LOT).
2. WIDTH – 10' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE. ** THE PLAN APPROVAL AUTHORITY MAY NOT REQUIRE SINGLE FAMILY RESIDENCES TO USE GEOTEXTILE.
4. STONE – CRUSHED AGGREGATE (2" TO 3") OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER – ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" STONE OVER THE PIPE. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY A PIPE WILL NOT BE NECESSARY. PIPE SHOULD BE SIZED ACCORDING TO THE AMOUNT OF RUNOFF TO CONVEYED. A 6" MINIMUM WILL BE REQUIRED. THE MOUNTABLE BERM IS REQUIRED ON ALL SCEs NOT LOCATED AT A HIGH SPOT.
6. LOCATION – A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE A-1-3 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 3 - STRAW BALE DIKE



U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-4-3 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

STRAW BALE DIKE

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE, ON THE CONTOUR, AND IN A ROW WITH THE ENDS OF EACH BALE TIGHTLY ABUTTING THE ADJACENT BALES.

2. EACH BALE SHALL BE ENTRENCHED IN THE SOIL A MINIMUM OF 4' AND PLACED SO THE BINDINGS ARE HORIZONTAL.

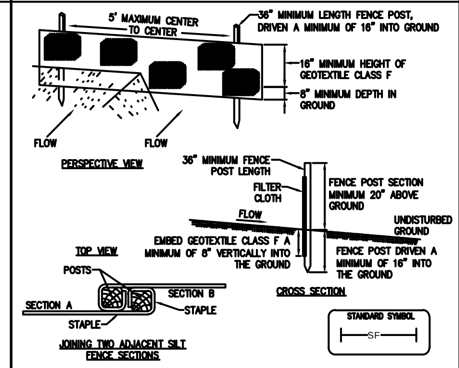
3. BALES SHALL BE SECURELY ANCHORED IN PLACED BY EITHER TWO 2" X 2" WOODEN STAKES OR RE-BARS DRIVEN THROUGH THE BALE 12" TO 18" INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF THE BALE.

4. STRAW BALE DIKES SHALL BE INSPECTED FREQUENTLY AND AFTER EACH RAIN EVENT AND MAINTENANCE PERFORMED AS NECESSARY.

5. ALL BALES SHALL BE REMOVED WHEN THE SITE HAS BEEN STABILIZED. THE TRENCH WERE THE BALES WERE LOCATED SHALL BE GRADED FLUSH AND STABILIZED.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B - 4 - 4 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 4 - SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. FENCE POSTS SHALL BE A MINIMUM OF 36" LONG DRIVEN 16" MINIMUM INTO THE GROUND. WOOD POSTS SHALL BE 1 1/2" x 1 1/2" SQUARE (MIN.) CUT, OR 1 3/4" DIAMETER (MIN.) ROUND AND SHALL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHTING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

2. GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID-SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F.

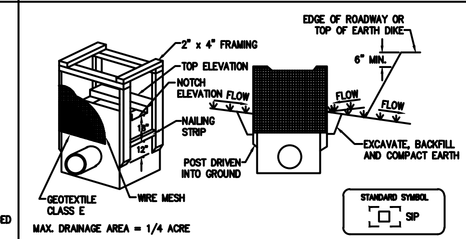
TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: ASTM D-4595
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: ASTM D-4595
FLOW RATE	0.3 GAL/FT2/MINUTE (MAX.)	TEST: ASTM D-5141
FILTERING EFFICIENCY	75% (MIN.)	TEST: ASTM D-5141

3. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.

4. SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 30% OF THE FABRIC HEIGHT.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-5-3 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 6A - STANDARD INLET PROTECTION



MAX. DRAINAGE AREA = 1/4 ACRE

CONSTRUCTION SPECIFICATIONS

1. EXCAVATE COMPLETELY AROUND THE INLET TO A DEPTH OF 18" BELOW THE NOTCH ELEVATION.

2. DRIVE THE 2' x 4' CONSTRUCTION GRADE LUMBER POSTS 1' INTO THE GROUND AT EACH CORNER OF THE INLET. PLACE NAIL STRIPS BETWEEN THE POSTS ON THE ENDS OF THE INLET. ASSEMBLE THE TOP PORTION OF THE 2' x 4' FRAME USING THE OVERLAP JOINT SHOWN ON DETAIL 6A. THE TOP OF THE FRAME (WEIR) MUST BE 6" BELOW ADJACENT ROADWAYS WHERE FLOODING AND SAFETY ISSUES MAY ARISE.

3. STRETCH THE 1/2" x 1/2" WIRE MESH TIGHTLY AROUND THE FRAME AND FASTEN SECURELY. THE ENDS MUST MEET AND OVERLAP AT A POST.

4. STRETCH THE GEOTEXTILE CLASS E TIGHTLY OVER THE WIRE MESH WITH THE GEOTEXTILE EXTENDING FROM THE TOP OF THE FRAME TO 18" BELOW THE INLET NOTCH ELEVATION. FASTEN THE GEOTEXTILE FIRMLY TO THE FRAME. THE ENDS OF THE GEOTEXTILE MUST MEET AT A POST, BE OVERLAPPED AND FOLDED THAN FASTENEND DOWN.

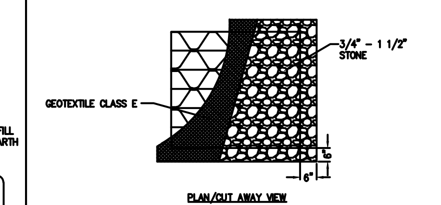
5. BACKFILL AROUND THE INLET IN COMPACTING 6" LAYERS UNTIL THE LAYER OF EARTH IS LEVEL WITH THE NOTCH ELEVATION ON THE ENDS AND TOP ELEVATION ON THE SIDES.

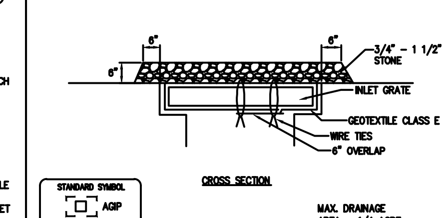
6. IF THE INLET IS NOT IN A SUMP, CONSTRUCT A COMPACTED EARTH DIKE ACROSS THE DITCH LINE DIRECTLY BELOW IT. THE TOP OF THE EARTH DIKE SHOULD BE AT LEAST 6" HIGHER THAN THE TOP OF THE FRAME.

7. THE STRUCTURE MUST BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND THE GEOTEXTILE REPLACED WHEN IT BECOMES CLOGGED.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-7-5 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 6B - AT GRADE INLET PROTECTION





MAX. DRAINAGE AREA = 1/4 ACRE

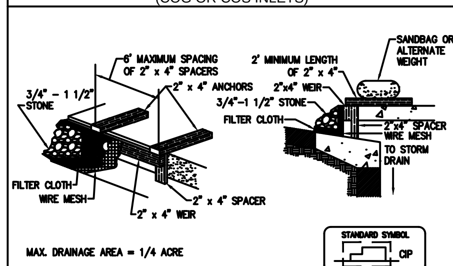
CONSTRUCTION SPECIFICATIONS

1. LIFT GRATE AND WRAP WITH GEOTEXTILE CLASS E TO COMPLETELY COVER ALL OPENINGS, THEN SET GRATE BACK IN PLACE.

2. PLACE 3/4" TO 1 1/2" STONE. 4"-6" THICK ON THE GRATE TO SECURE THE FABRIC AND PROVIDE ADDITIONAL FILTRATION.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-7-6 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 6C - CURB INLET PROTECTION (COG OR COS INLETS)



MAX. DRAINAGE AREA = 1/4 ACRE

CONSTRUCTION SPECIFICATIONS

1. ATTACH A CONTINOUS PIECE OF WIRE MESH (30" MINIMUM WIDTH BY THROAT LENGTH PLUS 4') TO THE 2" x 4" WEIR (MEASURING THROAT LENGTH PLUS 2') AS SHOWN ON THE STANDARD DRAWING.

2. PLACE A CONTINUOUS PIECE OF GEOTEXTILE CLASS E THE SAME DIMENSIONS AS THE WIRE MESH OVER THE WIRE MESH AND SECURELY ATTACH IT TO THE 2" x 4" WEIR.

3. SECURELY NAIL THE 2" x 4" WEIR TO A 9" LONG VERTICAL SPACER TO BE LOCATE BETWEEN THE WEIR AND THE INLET FACE (MAX. 4' APART).

4. PLACE THE ASSEMBLY AGAINST THE INLET THROAT AND NAIL (MINIMUM 2' LENGTHS OF 2" x 4" TO THE TOP OF THE WEIR AT SPACER LOCATIONS). THESE 2" x 4" ANCHORS SHALL EXTEND ACROSS THE INLET TOP AND BE HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHT.

5. THE ASSEMBLY SHALL BE PLACE SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.

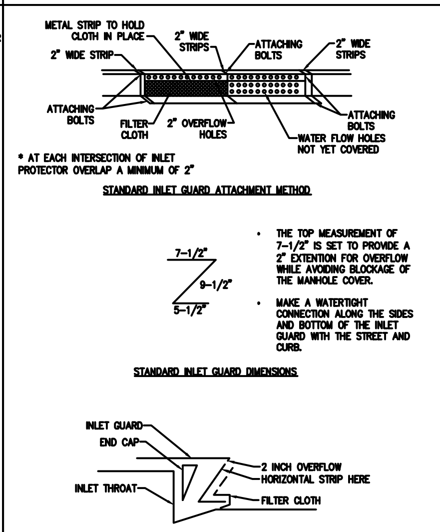
6. FORM THE 1/2" x 1/2" WIRE MESH AND THE GEOTEXTILE FABRIC TO THE CONCRETE GUTTER AND AGAINST THE FACE OF THE CURB ON BOTH SIDES OF THE INLET. PLACE CLEAN 3/4" x 1 1/2" STONE OVER THE WIRE MESH AND GEOTEXTILE IN SUCH A MANNER TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE GEOTEXTILE.

7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.

8. ASSURE THAT THE STORM FLOW DOES NOT BYPASS THE INLET BY INSTALLING A TEMPORARY EARTH OR ASPHALT DIKE TO DIRECT THE FLOW TO THE INLET.

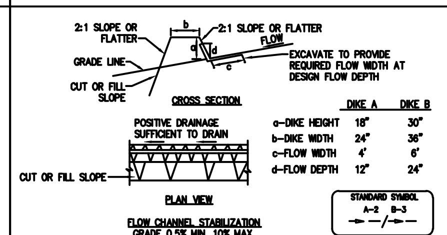
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-7-7 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 6E - AT GRADE INLET GUARD



U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-7-9 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 9 - EARTH DIKE



	DIKE A	DIKE B
a-DIKE HEIGHT	18"	30"
b-DIKE WIDTH	24"	36"
c-FLOW WIDTH	4'	6'
d-FLOW DEPTH	12"	24"

FLOW CHANNEL STABILIZATION
GRADE 0.5% MIN. 10% MAX.

1. SEED AND COVER WITH STRAW MULCH.
2. SEED AND COVER WITH SOIL STABILIZATION MATTING OR LINE WITH SOD.
3. 4"-7" STONE OR RECYCLED CONCRETE EQUIVALENT PRESSED INTO THE SOIL 7" MINIMUM.

CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY EARTH DIKES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%.

2. RUNOFF DIVERTED FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

3. RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED, STABILIZED AREA AT A NON-EROSIVE VELOCITY.

4. ALL TREES, BRUSH, STAMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIKE.

5. THE DIKE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

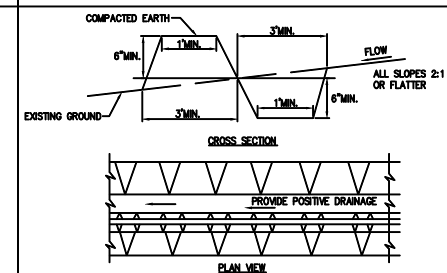
6. FILL SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIKE.

8. INSPECTION AND MAINTENANCE MUST BE PROVIDED PERIODICALLY AND AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE C-10-6 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 11 - PERIMETER DIKE / SWALE



STABILIZATION
PD/S-1 SEED AND MULCH (DRAINAGE ≤ 1 ACRE)
PD/S-2 SEED AND COVER WITH SOIL STABILIZATION MATTING OR LINE WITH SOD (DRAINAGE BETWEEN 1 AND 2 ACRES)

CONSTRUCTION SPECIFICATIONS

1. ALL PERIMETER DIKE/SWALES SHALL HAVE AN UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. SPOT ELEVATIONS MAY BE NECESSARY FOR GRADES LESS THAN 1%.

2. RUNOFF DIVERTED FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

3. RUNOFF DIVERTED FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT A NON-EROSIVE VELOCITY.

4. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS-SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.

5. FILL SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

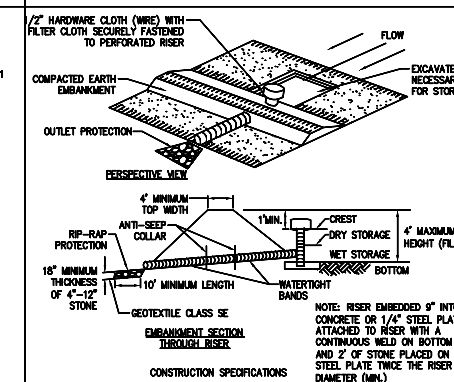
6. STABILIZATION WITH SEED AND MULCH OR AS SPECIFIED OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE COMPLETED WITHIN 7 DAYS UPON REMOVAL.

7. INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

NOTE: THE MAXIMUM DRAINAGE FOR THIS PRACTICE IS 2 ACRES.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE C-12-4 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 12 - PIPE OUTLET SEDIMENT TRAP - ST I



CONSTRUCTION SPECIFICATIONS

1. THE AREA UNDER THE EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.

2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.

3. THE TOTAL VOLUME AS MEASURED FROM THE BOTTOM TO RISER CREST ELEVATION SHALL BE 3600 CUBIC FEET PER ACRE OF DRAINAGE AREA (SEE TABLE 11). THE TOP OF EMBANKMENT MUST BE ≥ 1' ABOVE THE RISER CREST ELEVATION.

4. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE WET STORAGE DEPTH OF THE TRAP (900 CF/AC). THE SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

5. THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND REPAIRS.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE D-14-7 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

PIPE OUTLET SEDIMENT TRAP - ST I

6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED AND MULCH. POINTS OF CONCENTRATED INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE USING THE LIFE OF THE TRAP.

7. THE STRUCTURE SHALL BE REMOVED AND AREA STABLIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

8. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

9. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.

10. ABOVE THE WET STORAGE ELEVATION, THE RISER SHALL BE PERFORATED WITH 1/2" WIDE BY 6" LONG SLITS OR 1" DIAMETER HOLES SPACED 6" VERTICALLY AND HORIZONTALLY. NO PERFORATIONS WILL BE ALLOWED WITHIN 6" OF THE HORIZONTAL BARREL.

11. THE RISER SHALL BE WRAPPED WITH 1/2" HARDWARE CLOTH (WIRE) THEN WRAPPED WITH GEOTEXTILE CLASS E. THE FILTER CLOTH SHALL EXTEND 6" ABOVE THE HIGHEST SLIT AND 6" BELOW THE LOWEST SLIT. WHERE ENDS OF FILTER CLOTH COME TOGETHER, ,THEY SHALL BE OVERLAPPED, FOLDED AND FASTENED TO PREVENT BYPASS. FILTER CLOTH SHALL BE REPLACED AS NECESSARY TO PREVENT CLOGGING.

12. STRAPS OR CONNECTING BANDS SHALL BE USED TO HOLD THE FILTER CLOTH AND WIRE FABRIC IN PLACE. THEY SHALL BE PLACED AT THE TOP AND BOTTOM OF THE CLOTH.

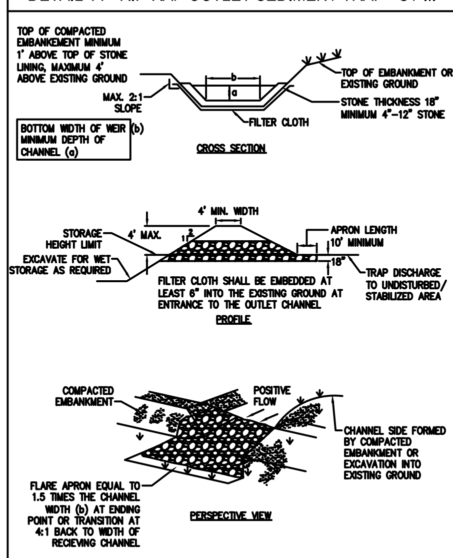
13. FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE HAND COMPACTED IN 4" LAYERS. A MINIMUM OF 2' OF HAND-COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.

14. THE RISER SHALL BE ANCHORED WITH EITHER A CONCRETE BASE OR STEEL PLATE BASE TO PREVENT FLOTATION. CONCRETE BASES SHALL BE AT LEAST TWICE THE RISER DIAMETER, 1/4" MINIMUM THICKNESS AND ATTACHED TO THE BOTTOM OF THE RISER BY A CONTINUOUS WELD TO FORM A WATERTIGHT CONNECTION. THEN PLACE 2' OF STONE, GRAVEL OR TAMPED EARTH ON THE PLATE.

15. ANTI SEEP COLLARS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PLANS (REF. TABLE 18 AND DETAILS 17 AND 18).

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE D-14-8 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 14 - RIP-RAP OUTLET SEDIMENT TRAP - ST III



NOTE: MAXIMUM DRAINAGE AREA = 10 AC.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-14-15 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

RIP-RAP OUTLET SEDIMENT TRAP - ST III

1. THE AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.

2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED. MAXIMUM HEIGHT OF EMBANKMENT SHALL BE 4', MEASURED AT CENTERLINE OF EMBANKMENT.

3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.

4. ELEVATION OF THE TOP OF ANY DIKE DIRECTING WATER INTO TRAP MUST EQUAL OR EXCEED THE HEIGHT OF TRAP EMBANKMENT.

5. STORAGE AREA PROVIDED SHALL BE FIGURED BY COMPUTING THE VOLUME MEASURED FROM TOP OF EXCAVATION. (FOR STORAGE REQUIREMENTS SEE TABLE 12).

6. FILTER CLOTH SHALL BE PLACED OVER THE BOTTOM AND SIDES OF THE OUTLET CHANNEL PRIOR TO PLACEMENT OF STONE. SECTION OF FABRIC MUST OVERLAP AT LEAST 1' WITH SECTION NEAREST THE ENTRANCE PLACED ON TOP. FABRIC SHALL BE EMBEDDED AT LEAST 6" INTO EXISTING GROUND AT ENTRANCE OF OUTLET CHANNEL.

7. STONE USED IN THE OUTLET CHANNEL SHALL BE 4" - 12" PLACED 18" THICK.

8. OUTLET - AN OUTLET SHALL BE PROVIDED, WHICH INCLUDES A MEANS OF CONVEYING THE DISCHARGE IN AN EROSION FREE MANNER TO AN EXISTING STABLE CHANNEL. PROTECTION AGAINST SCOUR AT THE DISCHARGE END SHALL BE PROVIDED AS NECESSARY.

9. OUTLET CHANNEL MUST HAVE POSITIVE DRAINAGE FROM THE TRAP.

10. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/4 OF THE WET STORAGE DEPTH OF THE TRAP (1350 cf/ac). REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

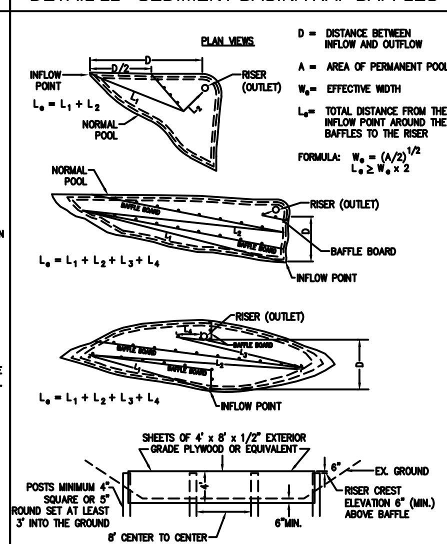
11. THE STRUCTURE SHALL BE INSPECTED PERIODICALLY AND AFTER EACH RAIN AND REPAIRED AS NEEDED.

12. CONSTRUCTION OF TRAPS SHALL BE CARRIED OUT IN SUCH A MANNER THAT SEDIMENT POLLUTION IS ABATED. ONCE CONSTRUCTED, THE TOP AND OUTSIDE FACE OF THE EMBANKMENT SHALL BE STABILIZED WITH SEED MULCH. POINTS OF CONCENTRATED INFLOW SHALL BE PROTECTED IN ACCORDANCE WITH GRADE STABILIZATION STRUCTURE CRITERIA. THE REMAINDER OF THE INTERIOR SLOPES SHOULD BE STABILIZED (ONE TIME) WITH SEED AND MULCH UPON TRAP COMPLETION AND MONITORED AND MAINTAINED EROSION FREE DURING THE LIFE OF THE TRAP.

13. THE STRUCTURE SHALL BE DEWATERED BY APPROVED METHODS, REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE B-14-16 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 22 - SEDIMENT BASIN/TRAP BAFFLES



$L_e = L_1 + L_2$

$L_e = L_1 + L_2 + L_3 + L_4$

$L_e = L_1 + L_2 + L_3 + L_4$

D = DISTANCE BETWEEN INFLOW AND OUTFLOW

A = AREA OF PERMANENT POOL

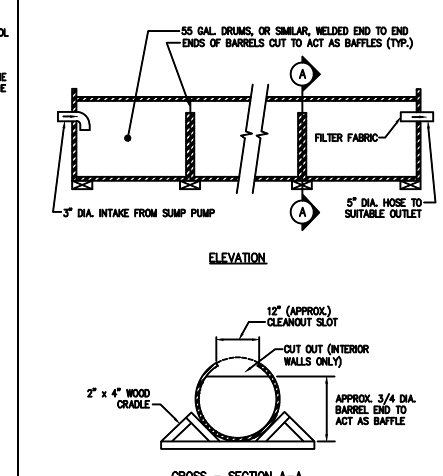
W_e = EFFECTIVE WIDTH

L_e = TOTAL DISTANCE FROM THE INFLOW POINT AROUND THE BAFFLES TO THE RISER

FORMULA: $W_e = (A/2)^{1/2}$, $L_e \geq W_e \times 2$

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE D-15-32 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

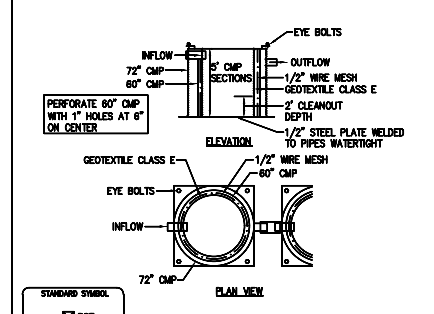
DETAIL 34 - PORTABLE SEDIMENT TANK (HORIZONTAL)



SOURCE: USDA - SCS

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE G-26-3 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 35 - PORTABLE SEDIMENT TANK (VERTICAL)



CONSTRUCTION SPECIFICATIONS

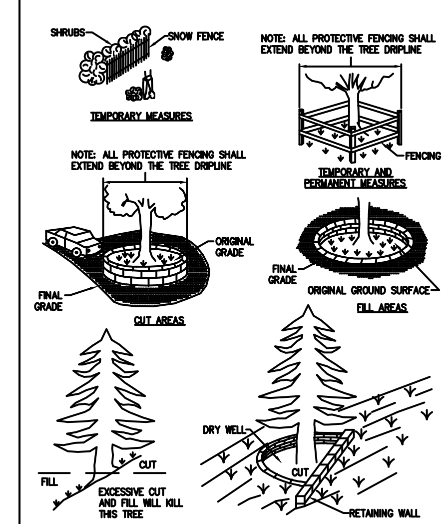
1. THE FOLLOWING FORMULA SHOULD BE USED IN DETERMINING THE STORAGE VOLUME OF THE SEDIMENT TANK: 1 CUBIC FOOT OF STORAGE FOR EACH GALLON PER MINUTE OF PUMP DISCHARGE CAPACITY.

2. AN EXAMPLE OF A TYPICAL SEDIMENT TANK IS SHOWN ABOVE. OTHER CONTAINER DESIGNS CAN BE USED IF THE STORAGE VOLUME IS ADEQUATE AND APPROVAL IS OBTAINED FROM THE LOCAL APPROVING AGENCY.

3. TANKS MAY BE CONNECTED IN SERIES.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE G-26-4 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

DETAIL 74 - TREE PROTECTION



U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCE CONSERVATION SERVICE | PAGE K-43-3 | WATERSHED PROTECTION DIVISION DISTRICT OF COLUMBIA DEPARTMENT OF HEALTH

EROSION AND SEDIMENT CONTROL DETAILS

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Date

04/12/2017

Project Name

2100 PENNSYLVANIA AVENUE NW

Project Number

A1613

Description

EROSION AND SEDIMENT CONTROL DETAILS

Scale

C-501

2100
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04/12/2017

Project Name
2100
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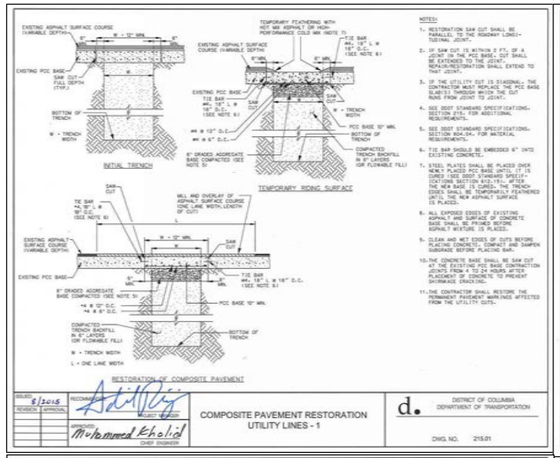
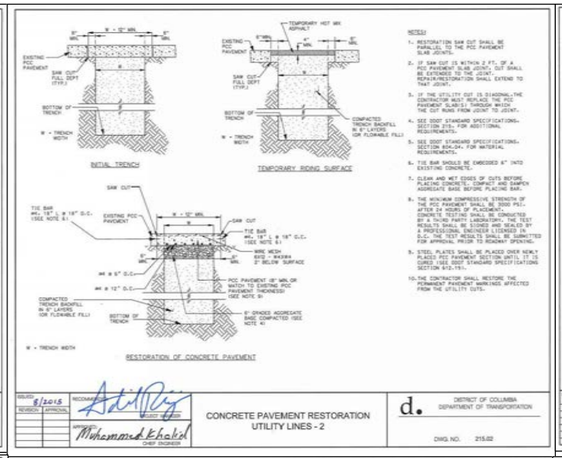
Project Number
A1613

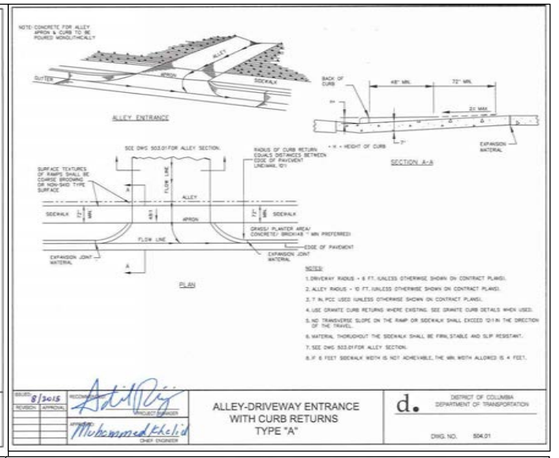
Description
SITE DETAILS

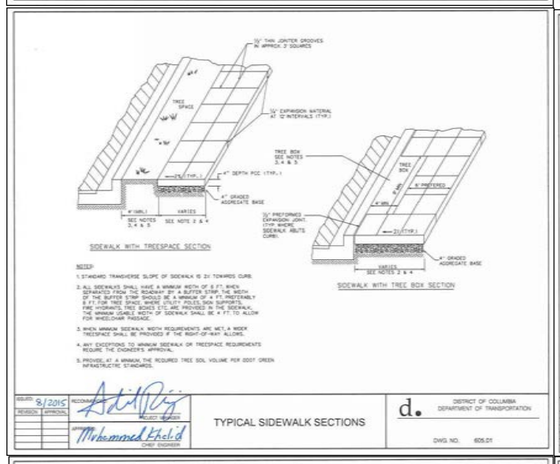
Scale

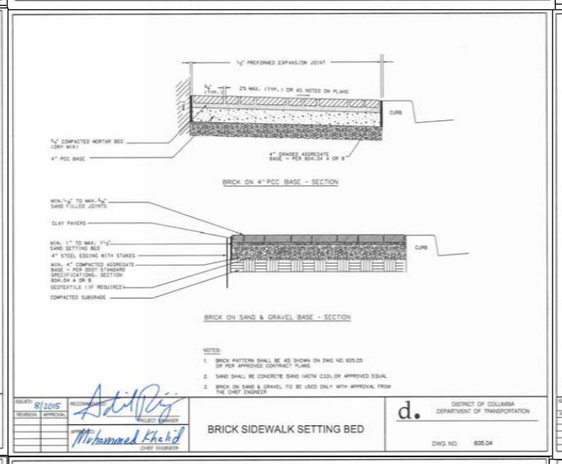
C-502

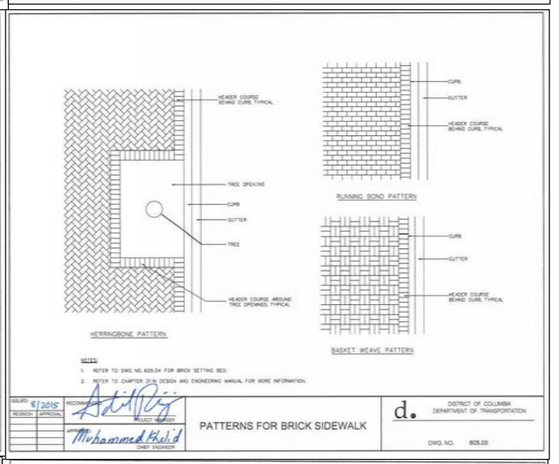


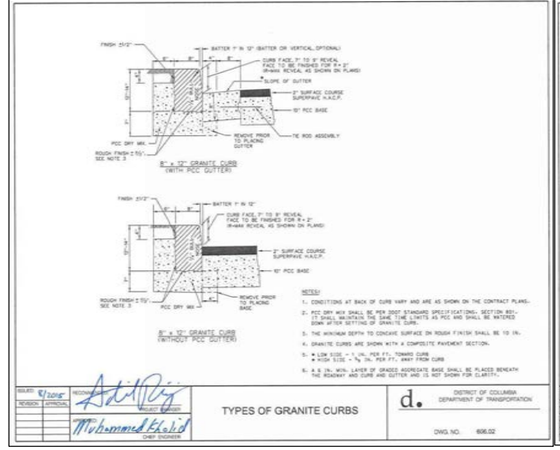


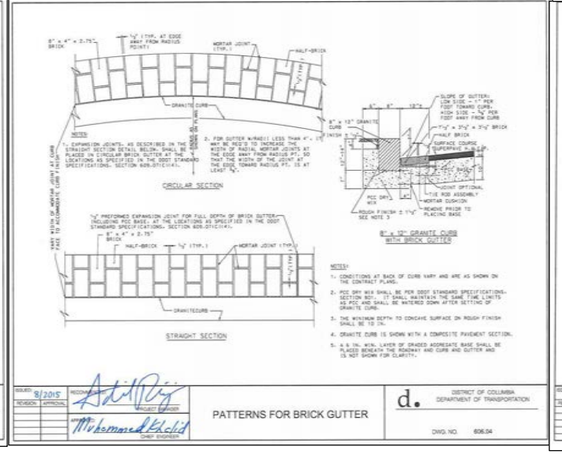


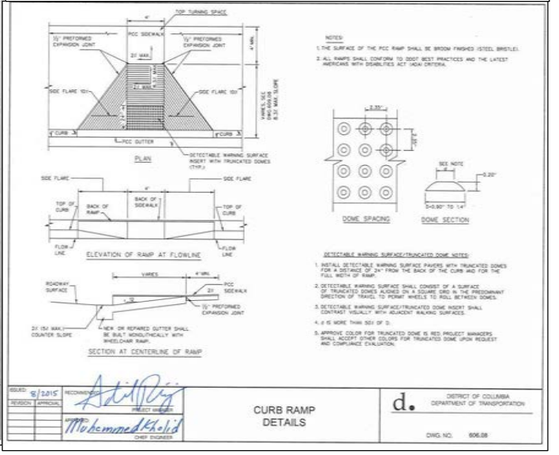


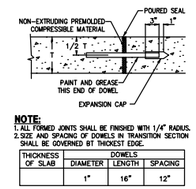








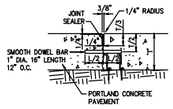




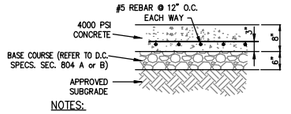
NOTE:
1. ALL FORMED JOINTS SHALL BE FINISHED WITH 1/4" RADIUS.
2. SIZE AND SPACING OF DOWELS IN TRANSITION SECTION SHALL BE GOVERNED BY THICKEST EDGE.

THICKNESS OF SLAB	DOWELS		
	DIAMETER	LENGTH	SPACING
	1"	16"	12"

DOWELED TRANSVERSE EXPANSION JOINT
FOR CONCRETE DRIVEWAY PAVEMENT
(NOT TO SCALE)

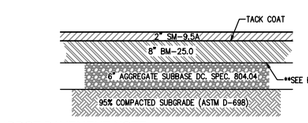


CONTRACTION JOINT WITH LOAD TRANSFER
FOR CONCRETE DRIVEWAY PAVEMENT
(NOT TO SCALE)



NOTES:
1. PROVIDE EXPANSION JOINTS ALONG FACE OF BUILDINGS, WHERE NEW CONCRETE PAVEMENT MEETS EXISTING FIXED OBJECTS AND AS SHOWN ON THE SITE PLAN.

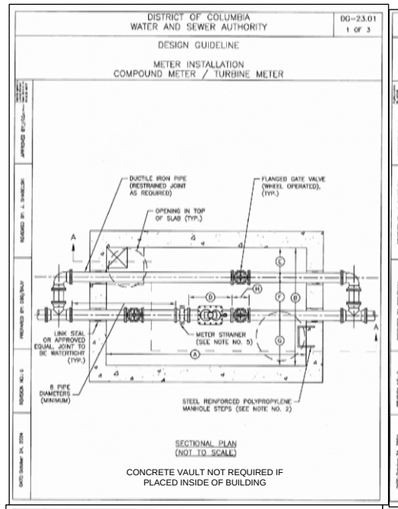
TYPICAL CONCRETE PAVEMENT DETAIL
FOR DRIVEWAY APRON
(NOT TO SCALE)

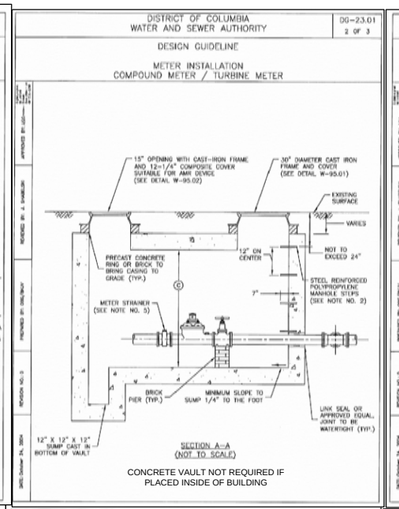


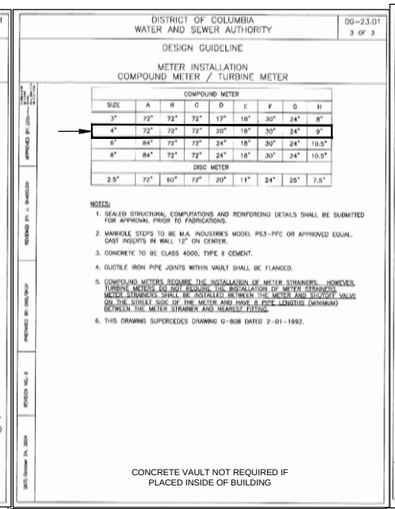
*DDOT PAVEMENT NOTE:
THE CONTRACTOR HAS THE OPTION OF USING THE ABOVE BITUMINOUS ASPHALT SECTION FOR ALL PROPOSED STREETS. THIS SECTION MAY BE MODIFIED BASED ON CBR VALUES TAKEN IN THE FIELD BY A CERTIFIED GEOTECHNICAL ENGINEER. CONTRACTOR SHALL COORDINATE WITH THE DDOT INSPECTOR PRIOR TO THE START OF PAVEMENT INSTALLATION.

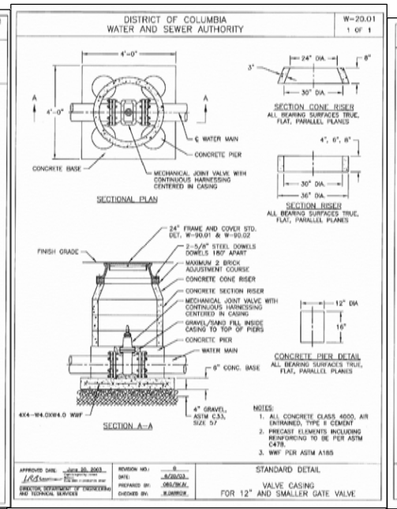
**CONTRACTOR HAS THE OPTION OF INSTALLING A 4" LAYER OF FREE DRAINING AGGREGATE OR SEAL COATING THE AGGREGATE SUBBASE.

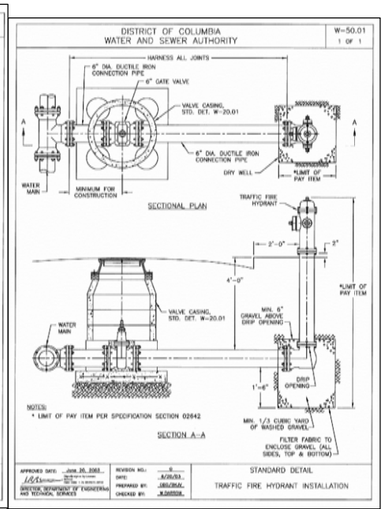
BITUMINOUS ASPHALT PAVING
(NOT TO SCALE)

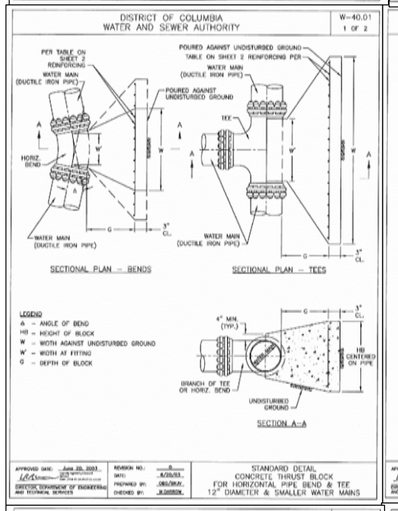


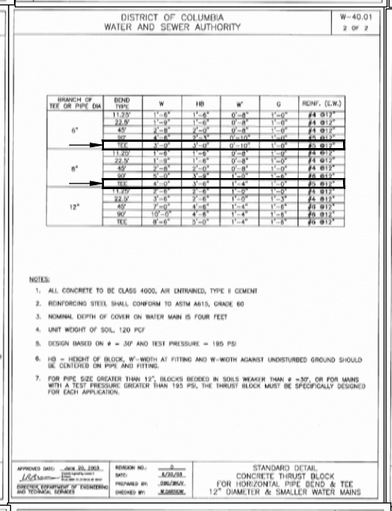


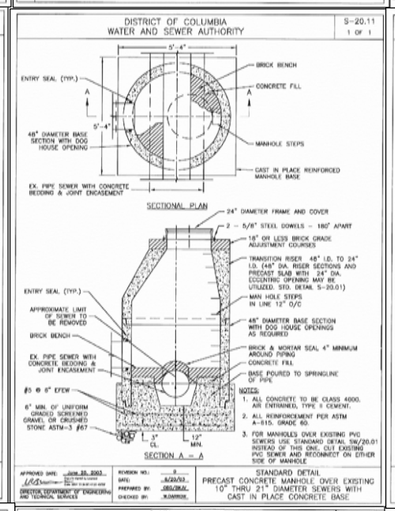


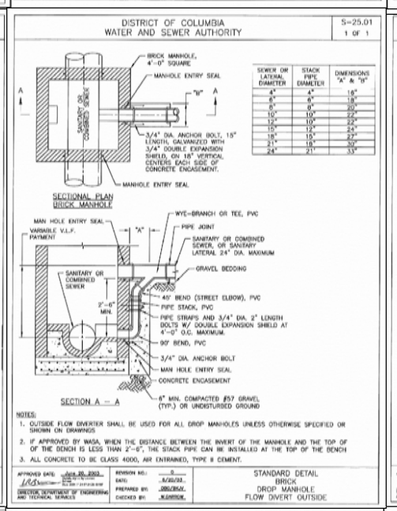


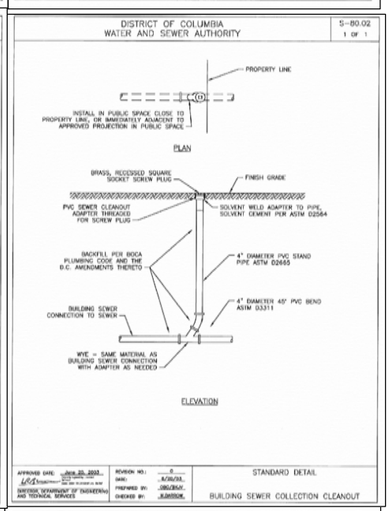


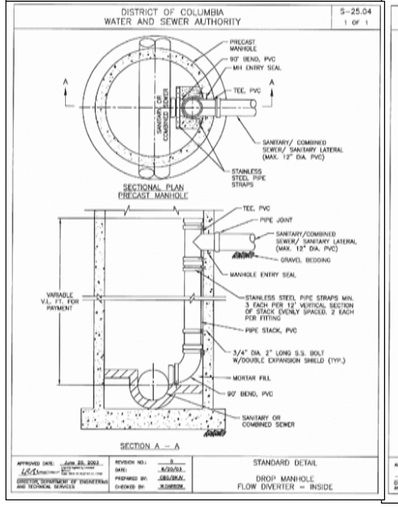


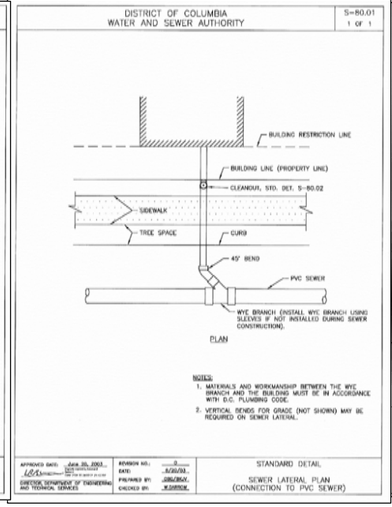


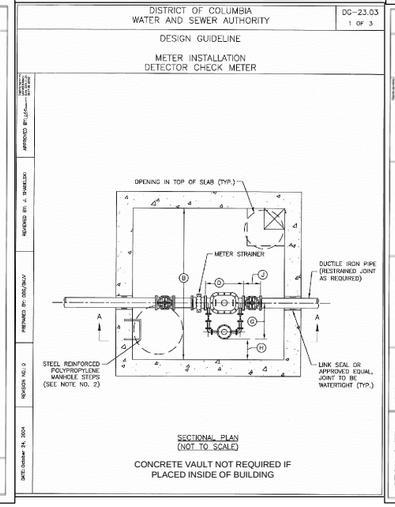


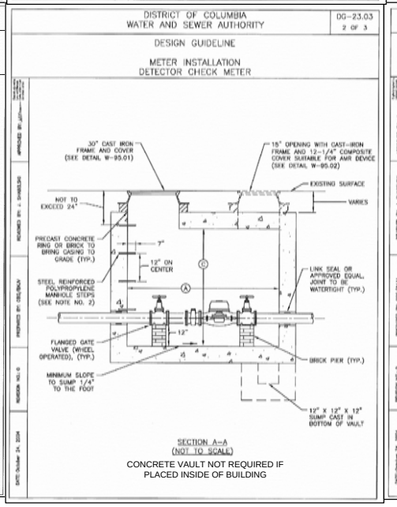


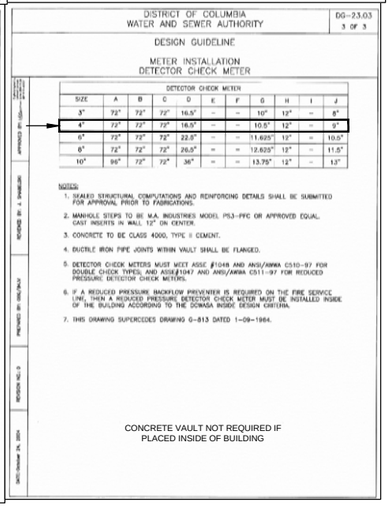












UTILITY DETAILS

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04/12/2017

Project Name
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Project Number
A1613

Description
UTILITY DETAILS

Scale

C-503

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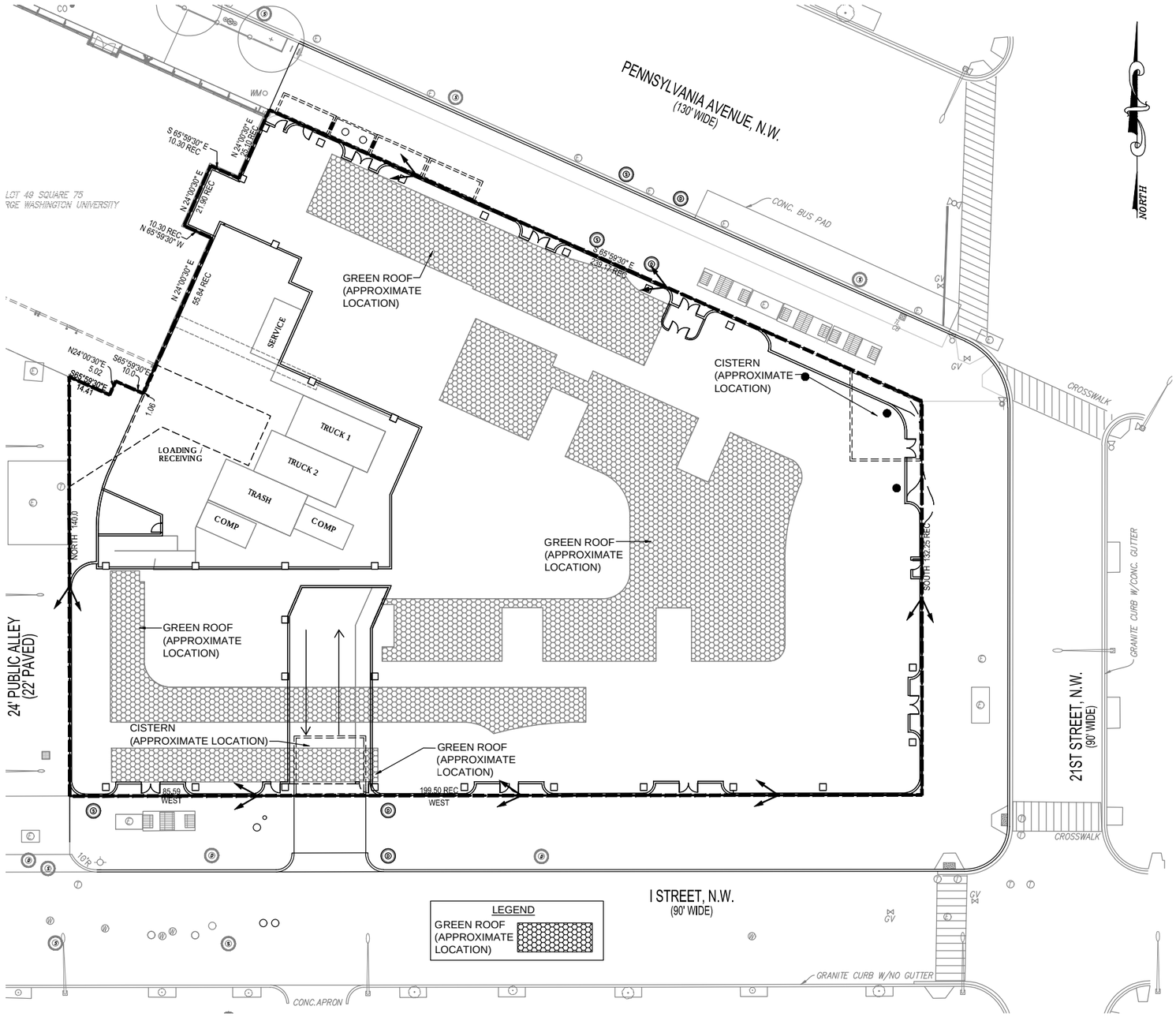
Project Name
2100
PENNSYLVANIA
AVENUE NW

Project Number
A1613

Description
STORMWATER
MANAGEMENT
PLAN

Scale

C-701



40' 20' 0 40' 80'

1" = 40'

STORMWATER MANAGEMENT NARRATIVE:

THE PROJECT WILL BE UNDER THE 2013 STORMWATER MANAGEMENT REQUIREMENTS PER THE DEPARTMENT OF ENERGY AND ENVIRONMENT. THIS WILL BE A MAJOR LAND DISTURBING ACTIVITY, THEREFORE, THE SITE WILL RETAIN THE FIRST 1.2" OF RAINFALL. GREEN ROOF AND RAINWATER HARVESTING WILL BE USED TO MEET THE RETENTION AND DETENTION REQUIREMENTS.

STORMWATER MANAGEMENT NARRATIVE:
MAXIMUM EXTENT PRACTICABLE IN THE PROW

THE PUBLIC RIGHT OF WAY PORTION OF THIS PROJECT WILL BE UNDER THE 2013 STORMWATER MANAGEMENT REQUIREMENTS PER THE DEPARTMENT OF ENERGY AND ENVIRONMENT FOR MAXIMUM EXTENT PRACTICABLE IN THE PUBLIC RIGHT OF WAY. THE SITE WILL MEET THE MEP IN THE PROW REQUIREMENTS USING STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES (BMPS).

NOTE:

"NO PERMITTED STORM WATER BMP IS COMPLETE UNTIL FINAL INSPECTION HAS BEEN CONDUCTED AND AN AS-BUILT PLAN HAS BEEN SUBMITTED TO THE DOEE WITHIN 21 DAYS AFTER FINAL INSPECTION FOR REVIEW AND APPROVAL."

STORMWATER MANAGEMENT PLAN

WMC
WILES MENSCH CORPORATION

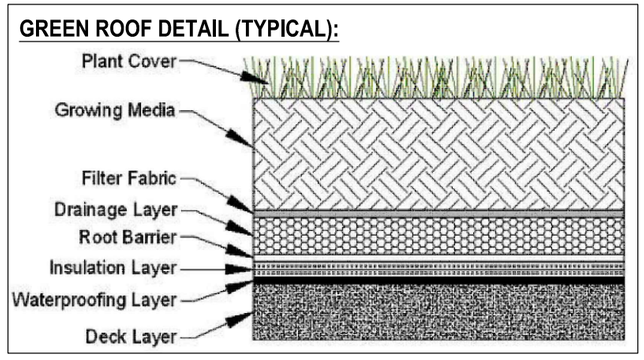
INITIAL STORMWATER MANAGEMENT ANALYSIS
GWU 2100 Pennsylvania Ave, NW

TOTAL SITE AREA:	50,497 SF	
Impervious Area	37,557 SF	
BMP Area	12,940 SF	(APPROXIMATE GREEN ROOF AREA)
Compacted Cover	0 SF	
TOTAL RETENTION VOLUME REQUIRED:	**4,797 CF**	
TOTAL DETENTION (2 YEAR) VOLUME REQUIRED:	**8,919 CF**	

GREEN ROOF NOTE:

FERTILIZER IS NOT RECOMMENDED. IF APPLIED, THE FERTILIZER MUST BE A SLOW RELEASE TYPE, RATHER THAN LIQUID OR GASEOUS FORM.

GREEN ROOF DETAIL (TYPICAL):



STORMWATER MANAGEMENT PLAN

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Project Name
2100
PENNSYLVANIA
AVENUE NW

Project Number
A1613

Description
STORMWATER
MANAGEMENT
PLAN

Scale

C-702

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Project Name
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Project Number
A1613

Description
STORMWATER MANAGEMENT NOTES

Scale

C-703

GREEN ROOF INSTALLATION

GIVEN THE DIVERSITY OF EXTENSIVE VEGETATED ROOF DESIGNS, THERE IS NO TYPICAL STEP–BY–STEP CONSTRUCTION SEQUENCE FOR PROPER INSTALLATION. THE FOLLOWING GENERAL CONSTRUCTION CONSIDERATIONS ARE NOTED:

- CONSTRUCT THE ROOF DECK WITH THE APPROPRIATE SLOPE AND MATERIAL.
- INSTALL THE WATERPROOFING METHOD, ACCORDING TO MANUFACTURER⁶S SPECIFICATIONS.
- CONDUCT A FLOOD TEST TO ENSURE THE SYSTEM IS WATERTIGHT BY PLACING AT LEAST 2 INCHES OF WATER OVER THE MEMBRANE FOR 48 HOURS TO CONFIRM THE INTEGRITY OF THE WATERPROOFING SYSTEM. ALTERNATELY, ELECTRIC FIELD VECTOR MAPPING (EFVM) CAN BE DONE TO TEST FOR THE PRESENCE OF LEAKS; HOWEVER, NOT ALL IMPERMEABLE MEMBRANES ARE TESTABLE WITH THIS METHOD. PROBLEMS
- HAVE BEEN NOTED WITH THE USE OF EFVM ON BLACK EPDM AND WITH ALUMINIZED PROTECTIVE COATINGS COMMONLY USED IN CONJUNCTION WITH MODIFIED BITUMINOUS MEMBRANES.
- ADD ADDITIONAL SYSTEM COMPONENTS (E.G., INSULATION, ROOT BARRIER, DRAINAGE LAYER AND INTERIOR DRAINAGE SYSTEM, AND FILTER FABRIC) PER THE MANUFACTURER'S SPECIFICATIONS, TAKING CARE NOT TO DAMAGE THE WATERPROOFING. ANY DAMAGE OCCURRING MUST BE REPORTED IMMEDIATELY. DRAIN COLLARS AND PROTECTIVE FLASHING SHOULD BE INSTALLED TO ENSURE FREE FLOW OF EXCESS STORMWATER.
- THE GROWING MEDIA SHOULD BE MIXED PRIOR TO DELIVERY TO THE SITE. MEDIA MUST BE SPREAD EVENLY OVER THE FILTER FABRIC SURFACE AS REQUIRED BY THE MANUFACTURER. IF A DELAY BETWEEN THE INSTALLATION OF THE GROWING MEDIA AND THE PLANTS IS REQUIRED, ADEQUATE EFFORTS MUST BE TAKEN TO SECURE THE GROWING MEDIA FROM EROSION AND THE SEEDING OF WEEDS. THE GROWING MEDIA MUST BE COVERED AND ANCHORED IN PLACE UNTIL PLANTING. SHEETS OF EXTERIOR GRADE PLYWOOD CAN ALSO BE LAID OVER THE GROWING MEDIA TO ACCOMMODATE FOOT OR WHEELBARROW TRAFFIC. FOOT TRAFFIC AND EQUIPMENT TRAFFIC SHOULD BE LIMITED OVER THE GROWING MEDIA TO REDUCE COMPACTION BEYOND MANUFACTURER'S RECOMMENDATIONS.
- THE GROWING MEDIA SHOULD BE MOISTENED PRIOR TO PLANTING, AND THEN PLANTED WITH THE GROUND COVER AND OTHER PLANT MATERIALS, PER THE PLANTING PLAN OR IN ACCORDANCE WITH ASTM E2400. PLANTS SHOULD BE WATERED IMMEDIATELY AFTER INSTALLATION AND ROUTINELY DURING ESTABLISHMENT.
- IT GENERALLY TAKES 2 TO 3 GROWING SEASONS TO FULLY ESTABLISH THE VEGETATED ROOF. THE GROWING MEDIUM SHOULD CONTAIN ENOUGH ORGANIC MATTER TO SUPPORT PLANTS FOR THE FIRST GROWING SEASON, SO INITIAL FERTILIZATION IS NOT REQUIRED. EXTENSIVE GREEN ROOFS MAY REQUIRE SUPPLEMENTAL IRRIGATION DURING THE FIRST FEW MONTHS OF ESTABLISHMENT. HAND WEEDING IS ALSO CRITICAL IN THE FIRST TWO YEARS.

GREEN ROOF INSTALLATION MAINTENANCE:

1. THE INSTALLATION MAINTENANCE SHALL BE A MINIMUM OF THREE MONTHS. THE MAINTENANCE PERIOD SHALL CONSIST OF PERIODIC WEEDING AND HAND WATERING DURING THE MONTHS OF JULY AND AUGUST IN THE EVENT OF DROUGHT OR AS DETERMINED.
2. THE GROWTH MEDIA WILL BE THOROUGHLY SOAKED PRIOR TO COMMENCING PLANTING.
3. THE PLUGS SHALL BE SET INTO THE MEDIA TO THEIR FULL DEPTH AND THE EMDIA PRESSED FIRMLY AROUND THE INSTALLED PLUG. AT THE END OF EACH DAY, THE NEWLY PLANTED AREAS WILL BE SOAKED.
4. AT THE END OF THE MAINTENANCE PERIOD, PLANTED AREAS SHALL HAVE NO BARE SPOTS GREATER THAN ONE SQUARE FOOT OVER GREATER THAN 5 PERCENT OF THE OVERALL PLANTED AREA. IF PLANTED AREAS ARE DEFICIENT, THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTED AREAS SHALL BE EXTENDED UNTIL DEFICIENCIES ARE CORRECTED. PLANTED AREAS TO BE CORRECTED SHALL BE PREPARED AND REPLANTED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS SECTION.
5. CONTRACTOR SHALL PROVED TEMPORARY PROTECTION ON AN AS NEEDED BASIS AGAINST WIND AND WILDLIFE DURING THE MAINTENANCE PERIOD. TEMPORARY BARRIERS WILL BE REMOVED AT THE TIME OF ACCEPTANCE.
6. ABSOLUTELY NO DEBRIS WILL BE LEFT ON THE SITE. CONTRACTOR WILL REPAIR ANY DAMAGE TO THE SITE OR STRUCTURE AND RESTORE THEM TO THEIR ORIGINAL CONDITION AT NO COST TO THE OWNER.

GREEN ROOF 2-YEAR MAINTENANCE SERVICE:

THE INSTALLER SHALL GUARANTEE 50 PERCENT COVER RATE AFTER 12 MONTHS AND 80 PERCENT COVER AT THE END OF 24 MONTHS. AS NECESSARY, PLANTS SHALL BE REPLACED TO ACHIEVE THIS REQUIREMENTS.

GREEN ROOF ONGOING MAINTENANCE:

1. BOTH PLANT MAINTENANCE AND MAINTENANCE OF THE WATERPROOFING ARE REQUIRED.
2. FOR PLANT MAINTENANCE, MONTHLY INSPECTIONS WILL OCCUR TO CHECK FOR WEEDS OR DAMAGE, OR FOR IRRIGATION, PRUNING AND/OR REPLANTING.
3. THE FREQUENCY OF PLANT MAINTENANCE INSPECTIONS MAY INCREASE DURING THE SUMMER MONTHS IN THE CASE OF DROUGHT.
4. INSPECTION OF THE WATERPROOFING MEMBRANE WILL TAKE PLACE TWO TO THREE TIMES A YEAR.

GREEN ROOF MAINTENANCE CRITERIA

SCHEDULE (FOLLOWING CONSTRUCTION)	ACTIVITY
AS NEEDED OR REQUIRED BY MANUFACTURER	– WATER TO PROMOTE PLANT GROWTH AND SURVIVAL. – INSPECT GREEN ROOF AND REPLACE ANY DEAD OR DYING VEGETATION
SEMI–ANNUALLY	– INSPECT THE WATERPROOF MEMBRANE FOR LEAKS AND CRACKS – WEED TO REMOVE INVASIVE PLANTS (DO NOT DIG OR USE POINTED TOOLS WHERE THERE IS POTENTIAL TO HARM THE ROOT BARRIER OR WATERPROOF MEMBRANE). – INSPECT THE ROOF DRAINS, SCUPPERS, AND GUTTERS TO ENSURE THEY ARE NOT OVERGROWN AND HAVE NOT ACCUMULATED ORGANIC MATTER DEPOSITS. REMOVE ANY ACCUMULATED ORGANIC MATTER OR DEBRIS. – INSPECT THE GREEN ROOF FOR DEAD, DYING, OR INVASIVE VEGETATION, PLANT REPLACEMENT VEGETATION AS NEEDED.

CISTERN STORAGE AREA MAINTENANCE

THE ACCESS COVER TO THE CISTERN STORAGE AREA SHALL BE OPENED. FOLLOWING ALL CONFINED SPACE ENTRY REQUIREMENTS, USING PROPER VENTILATION EQUIPMENT AND TRAINING AS REQUIRED BY OSHA, THE CISTERN STORAGE AREA SHALL BE ENTERED FOR INSPECTIONS. NO ONE SHALL ENTER THE CISTERN UNLESS THEY ARE PROPERLY TRAINED, EQUIPPED, AND QUALIFIED TO ENTER A CONFINED SPACE AS IDENTIFIED BY LOCAL OCCUPATIONAL SAFETY AND HEALTH REGULATIONS.

INSPECTION AND MAINTENANCE OF THE CISTERN MUST BE PERFORMED DURING A THREE (3) DAY DRY WEATHER FORECAST. THE CISTERN SHALL BE DRAINED USING A SUBMERSIBLE PUMP AND WATER DISCHARGED INTO THE CITY'S SEWER. PRIOR TO ENTERING THE CISTERN, ALL LIFT AND TRANSFER PUMPS SHALL BE TURNED OFF FOR SAFETY. ALL AREAS OF THE CISTERN AREA SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION. SEDIMENT ACCUMULATION SHALL BE MEASURED AT ALL SECTORS OF THE CISTERN STORAGE AREA.

THE PROPERTY SHALL MAINTAIN COPIES OF THESE INSPECTION RECORDS. IF THE SEDIMENT DEPTH REACHES EIGHT INCHES (8") IN ANY OF THESE AREAS, CLEANING OF THE ENTIRE CISTERN SHALL BE REQUIRED AS DESCRIBED BELOW.

THE SYSTEM SHALL BE COMPLETELY CLEANED BACK TO 100 PERCENT (100%) OF THE ORIGINALLY DESIGNED STORAGE VOLUME WHENEVER THE ABOVE SEDIMENT LEVELS HAVE BEEN REACHED. THE CISTERN SHALL BE COMPLETELY DRAINED PRIOR TO PROCEEDING WITH CLEANING.

MAINTENANCE IS TYPICALLY PERFORMED USING A VACUUM TRUCK. SEDIMENT SHALL BE FLUSHED TOWARDS A VACUUM HOSE FOR THOROUGH REMOVAL. AT THE MANHOLE ACCESS TO THE CISTERN STORAGE AREA, A VACUUM HOSE SHALL BE LOWERED INTO THE CISTERN SYSTEM. USING SEWER JETTING EQUIPMENT, SEDIMENT SHALL BE FLUSHED AT THE OPPOSITE END OF THE CISTERN TOWARD THE VACUUM HOSE AT THE MANHOLE ACCESS.

WHEN FINISHED, COVERS THAT WERE REMOVED SHALL BE REPLACED AND THE COLLECTED MATERIAL SHALL BE PROPERLY DISPOSED. THE MATERIAL THAT IS REMOVED MAY BE CONSIDERED LOW-LEVEL HAZARDOUS WASTE AND MUST BE DISPOSED OF IN ACCORDANCE WITH ANY AND ALL LOCAL AND NATIONAL REGULATIONS.

THE PROPERTY OWNER SHALL MAINTAIN COPIES OF ALL INSPECTION AND MAINTENANCE RECORDS.

CISTERN STRUCTURE COVER INSPECTIONS AND MAINTENANCE

ALL CISTERN COVERS AND HATCHES SHALL BE INSPECTED AND ANY DEBRIS AROUND COVERS OR HATCHES SHALL BE REMOVED. IF ANY DEBRIS IS BLOCKING GRATED ACCESS COVER TO CISTERN OVERFLOW, IT SHALL BE REMOVED. IF ANY CISTERN COVERS ARE DAMAGED, THEY SHALL BE REPAIRED OR REPLACED AS NECESSARY.

THE PROPERTY OWNER SHALL MAINTAIN COPIES OF ALL INSPECTION AND MAINTENANCE RECORDS.

CISTERN MAINTENANCE CRITERIA

RESPONSIBLE PERSON: OWNER

- FOUR TIMES A YEAR: INSPECT AND CLEAN PRESCREENING DEVICES AND FIRST FLUSH DIVERTERS
- TWICE A YEAR: KEEP GUTTERS AND DOWNSPOUTS FREE OF LEAVES AND OTHER DEBRIS
- ONCE A YEAR: INSPECT AND CLEAN STORAGE CISTERN LIDS, PAYING SPECIAL ATTENTION TO VENTS AND SCREENS ON INFLOW AND OUTFLOW SPIGOTS. CHECK MOSQUITO SCREENS AND PATCH HOLES OR GAPS IMMEDIATELY. INSPECT CONDITION OF OVERFLOW PIPES, OVERFLOW FILTER PATH AND/OR SECONDARY STORMWATER TREATMENT PRACTICES.
- EVERY THIRD YEAR: CLEAR OVERHANGING VEGETATION AND TREES OVER ROOF SURFACE

RESPONSIBLE PERSON: QUALIFIED THIRD PARTY INSPECTOR

- ACCORDING TO MANUFACTURER: INSPECT WATER QUALITY DEVICES.
- AS INDICATED IN TRAM: PROVIDE WATER QUALITY ANALYSIS TO DOEE.
- EVERY THIRD YEAR: INSPECT CISTERN FOR SEDIMENT BUILDUP, CHECK INTEGRITY OF BACKFLOW PREVENTER. INSPECT STRUCTURAL INTEGRITY OF CISTERN, PUMP, PIPE AND ELECTRICAL SYSTEM, AND REPLACE DAMAGED OR DEFECTIVE SYSTEM COMPONENTS.

STORMWATER MANAGEMENT NOTES

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Description
STORMWATER MANAGEMENT NOTES

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