2018 STREET RAIN GARDEN RETROFITS
TOWN OF GREENVILLE

OUTAGAMIE COUNTY, WISCONSIN
MCM # G0014-9-15-00205

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Sheet Index
1. Abbreviations, Symbols & Notes
2. Survey Control & Horizontal Alignment Detail
3. Temporary Drives
4. Permanent Drives
5. Marcy Court
6. Fabrique Drive
7. Greenridge Lane
8. Miscellaneous Details
9. Erosion Control & Planting Details
RAIN GARDEN CONSTRUCTION SEQUENCE:

1. **STORAGE LAYER:** A 3-INCH LAYER OF SAND SHALL BE PLACED BELOW THE STORAGE LAYER AND MIXED VERTICALLY WITH THE NATIVE SOIL INTERFACE TO A DEPTH OF 2-4 INCHES. SAND SHALL SATISFY THE SPECIFICATIONS AS IDENTIFIED BELOW IN THE SAND SPECIFICATIONS.

2. **PLANTS:** PLANTS SHALL BE PLACED IN THE STORAGE LAYER. PLANTS SHALL BE FERTILIZED AND WATERED AS NEEDED TO MAXIMIZE PLANT GROWTH AND SURVIVAL.  THE SHREDDED HARDWOOD MULCH OR CHIPS SHALL BE 3 INCHES IN DEPTH AND THE MAT SHALL BE OVERLAPPED AND ANCHORED BY THE ADMINISTERING AUTHORITY.

3. **MULCH:** THE MULCH SHALL BE PUSHED ASIDE FOR INDIVIDUAL PLANT PLACEMENT. RUBBER TIRES FROM THE VEHICLE SHALL NOT BE USED AS MULCH.  CONTRACTOR SHALL SUBMIT MATERIAL CERTIFICATIONS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.  CERTIFICATIONS SHALL STATE THAT MATERIALS SATISFY SPECIFICATIONS.

4. **SAND:** A THIRD LAYER OF SAND MAY BE USED IF THE SAND CONSISTING OF DOLOMITE OR CALCIUM CARBONATE MAY ALSO BE USED. THE SAND LAYER SHALL BE LEFT TO SETTLE PRIOR TO PLANTING, THE SURFACE SHALL BE MULCHED. THE SHREDDED HARDWOOD MULCH OR CHIPS SHALL BE 3 INCHES IN DEPTH AND THE MAT SHALL BE OVERLAPPED AND ANCHORED BY THE ADMINISTERING AUTHORITY.

5. **WEED CONTROL:** WEED CONTROL SHALL BE PERFORMED AS NEEDED TO PREVENT OVERGROWTH OF UNEVALUATED PLANTS OR MULCH.  CONTRACTOR SHALL PROVIDE A 2-YEAR WARRANTY FOR ALL INSTALLED PLANTS, SHRUBS, AND TREES.

6. **COMPACTORS:** COMPACTORS SHALL NOT BE USED. THE USE OF COMPACTORS WILL CONTRIBUTE TO SOIL SMEARING, CLUMPING, OR OTHER FORMS OF COMPACTION.  HAND TOOLS, WIDE-TRACK TIRES, OR SLOW-TRACK TIRES MAY BE USED FOR REMEDIATION (AS DESCRIBED BELOW).

7. **MOISTURE:** MOISTURE SHALL BE MAINTAINED IN THE STORAGE LAYER TO HELP PREVENT RUNOFF DURING PERIODS OF HEAVY RAINFALL OR SNOWMELT.  THE STORAGE LAYER SHALL REMAIN WET AND MOIST UNTIL DENSE VEGETATION IS ESTABLISHED.  THE MULCH SHALL BE FREE OF FOREIGN MATERIAL, INCLUDING OTHER PLANT MATERIAL.

8. **COMPACTORS:** COMPACTORS SHALL NOT BE USED. THE USE OF COMPACTORS WILL CONTRIBUTE TO SOIL SMEARING, CLUMPING, OR OTHER FORMS OF COMPACTION.  HAND TOOLS, WIDE-TRACK TIRES, OR SLOW-TRACK TIRES MAY BE USED FOR REMEDIATION (AS DESCRIBED BELOW).

9. **RESIDUAL:** RESIDUALS MAY OCCUR AT TIMES. A PREVENTION PLANNED BY THE ADMINISTERING AUTHORITY.  IF ANY RESIDUAL OCCURS, THE AREA SHALL BE LEFT TO SETTLE PRIOR TO PLANTING, THE SURFACE SHALL BE MULCHED. THE SHREDDED HARDWOOD MULCH OR CHIPS SHALL BE 3 INCHES IN DEPTH AND THE MAT SHALL BE OVERLAPPED AND ANCHORED BY THE ADMINISTERING AUTHORITY.

10. **REMOVAL:** REMOVAL OF SAND MAY OCCUR AT TIMES. A PREVENTION PLANNED BY THE ADMINISTERING AUTHORITY.  IF ANY SAND IS REMOVED, THE AREA SHALL BE LEFT TO SETTLE PRIOR TO PLANTING, THE SURFACE SHALL BE MULCHED. THE SHREDDED HARDWOOD MULCH OR CHIPS SHALL BE 3 INCHES IN DEPTH AND THE MAT SHALL BE OVERLAPPED AND ANCHORED BY THE ADMINISTERING AUTHORITY.

11. **COMPACTORS:** COMPACTORS SHALL NOT BE USED. THE USE OF COMPACTORS WILL CONTRIBUTE TO SOIL SMEARING, CLUMPING, OR OTHER FORMS OF COMPACTION.  HAND TOOLS, WIDE-TRACK TIRES, OR SLOW-TRACK TIRES MAY BE USED FOR REMEDIATION (AS DESCRIBED BELOW).

RAIN GARDEN SPECIFICATIONS:

1. **FILTER SOCK:** THE FILTER SOCK FABRIC SHALL SATISFY SECTION 612.2.8(1-3), WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2003 EDITION. THE FLOW RATE OF THE FILTER SOCK FABRIC SHALL BE CAPABLE OF PASSING WATER AT A RATE EQUAL TO OR GREATER THAN THE FLOW RATE CAPACITY OF THE TOTAL COMBINED DRAIN PIPE.

2. **UNDERDRAIN PIPE:** THE UNDERDRAIN PIPE SHALL BE A MINIMUM 6-INCH DIAMETER CORRUGATED POLYETHYLENE PIPE WITH CIRCULAR OR SLOTTED PERFORATIONS. AT A MINIMUM, PIPES SHALL HAVE 1.0 SQUARE INCH OF PERFORATED OPENING PER FOOT.

3. **SAND:** A 3-INCH LAYER OF SAND SHALL BE PLACED BELOW THE STORAGE LAYER AND MIXED VERTICALLY WITH THE NATIVE SOIL INTERFACE TO A DEPTH OF 2-4 INCHES. SAND SHALL SATISFY THE SPECIFICATIONS AS IDENTIFIED BELOW IN THE SAND SPECIFICATIONS.