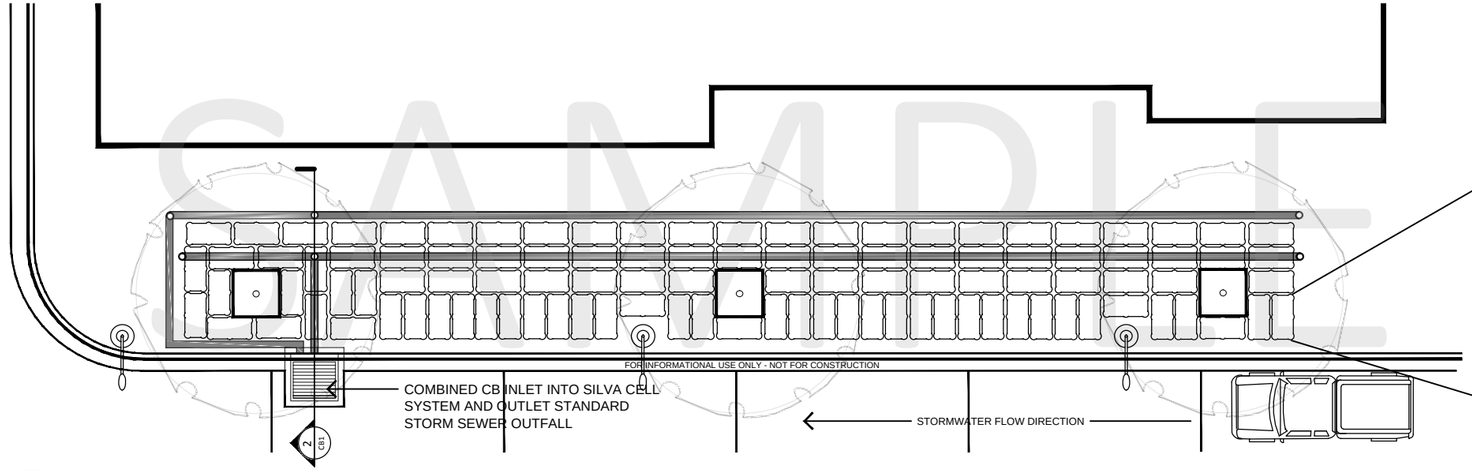
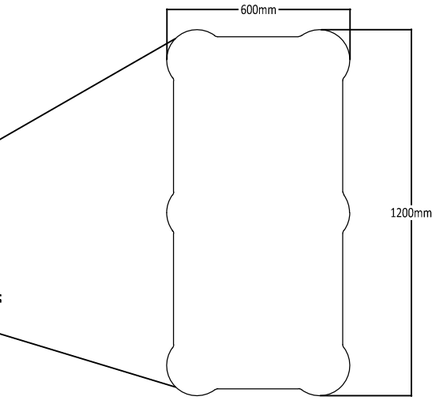


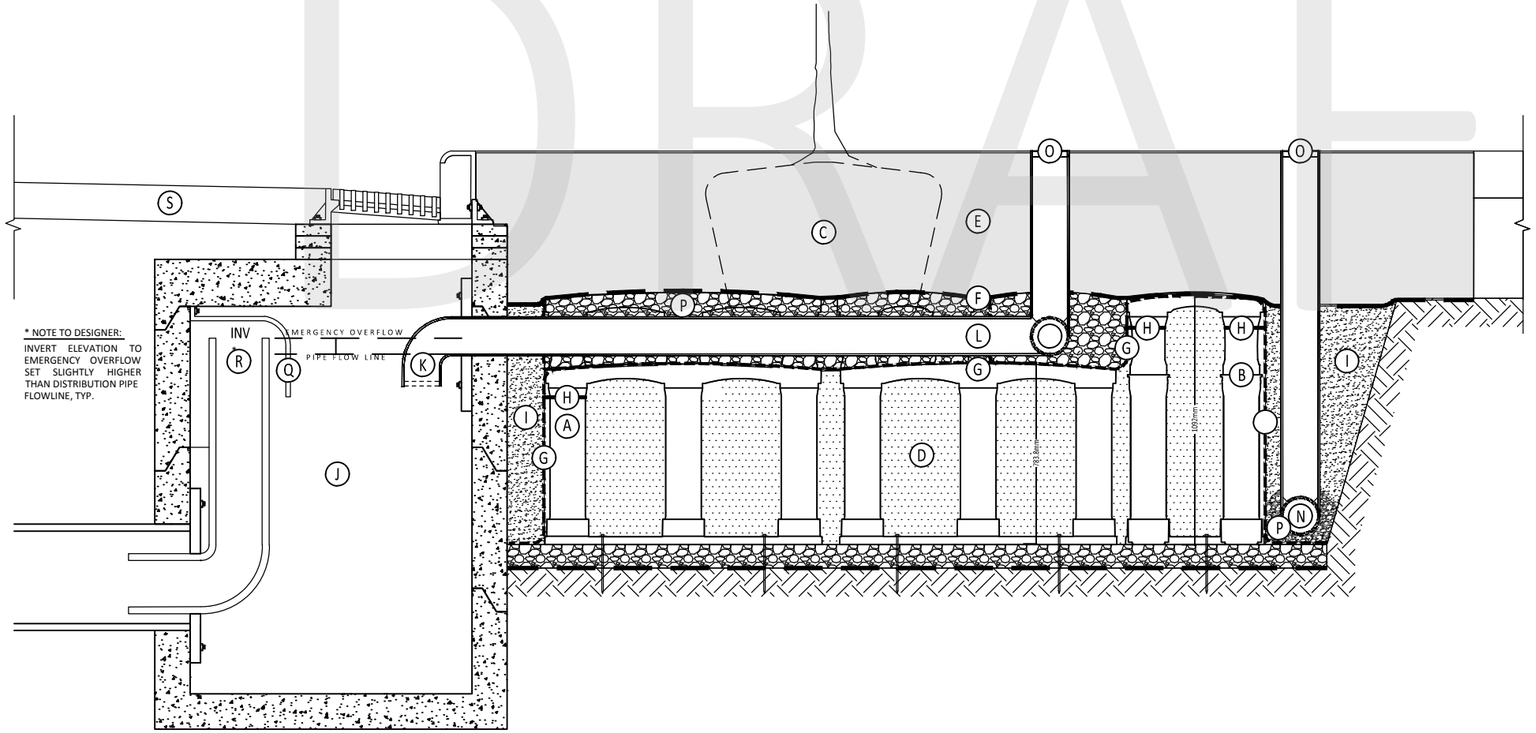
1 CB1 STORMWATER TREE APPLICATION | STORM.xCB | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: STANDARD CATCH BASIN - SAMPLE LAYOUT

NOT TO SCALE



3 CB1 TYPICAL SILVA CELL

NOT TO SCALE



2 CB1 STORMWATER TREE APPLICATION | STORM.xCB | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CATCH BASIN - SECTION

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) TREE IN STORMWATER SILVA CELL SYSTEM, SIZE VARIES
- (D) BIORETENTION PLANTING SOIL, PER PROJECT
- (E) PAVEMENT SECTION, PER PROJECT
- (F) GEOTEXTILE 450mm MIN OVERLAP PAST EXCAVATION
- (G) GEOGRID, PER PROJECT SPECIFICATION. MAX. APERTURE SIZE DETERMINED BY AGGREGATE CLEAR STONE Ø FOR STORMWATER DISTRIBUTION PIPE. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (H) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (I) BACKFILL, PER PROJECT SPECIFICATIONS
- (J) CATCH BASIN WITH CURB INLET AND GRATE PER PROJECT
- (K) STORMWATER DISTRIBUTION PIPE INLET INTO SILVA CELLS WITH TRASH FILTER, SIZE AND MATERIAL PER PROJECT
- (L) SOLID DISTRIBUTION PIPE INTO SILVA CELL SYSTEM. SEE DETAIL 2 CB2
- (M) PERFORATED DISTRIBUTION PIPE IN AGGREGATE CLEAR STONE.
- (N) UNDERDRAIN, ENSURE POSITIVE DRAINAGE TO STORMWATER OUTFALL
- (O) CLEANOUT PIPE WITH CAP, PER PROJECT AND PER CITY STANDARDS. SECURE TO PAVEMENT AT SURFACE
- (P) CLEAR STONE AGGREGATE, PER PROJECT
- (Q) PIPE HOOD
- (R) CATCH BASIN OUTLET, SIZE AND INVERT ELEVATION PER PROJECT TO PREVENT PRESSURE FLOW DISTRIBUTION INTO SILVA CELL SYSTEM
- (S) ROADWAY

NOTES

1. DETAIL TO BE USED IN CONJUNCTION WITH SILVA CELL STANDARD DETAILS, IN ACCORDANCE WITH ALL MANUFACTURER'S SPECIFICATIONS
2. DEEPROOT ACCEPTS NO LIABILITY FOR PROJECT APPLICATION OF DETAILS SHOWN

RELEASE VERSION: v1.1 | RELEASE DATE: 11.10.2014

deeproot
DeepRoot Green Infrastructure - USA
101 Montgomery Street, Suite 2850
San Francisco, CA 94104
www.deeproot.com
T 415 781 9700
F 415 781 0191

JAMES URBAN, FASLA
915 Creek Drive
Annapolis, MD 21403
410 263 4838 | www.jamesurban.net

PREPARED BY
KestrelDesignGroup
the green + blue infrastructure company
7109 Ohms Lane
Minneapolis,MN 55439
T 952 928 9600
F 952 224 9860
www.kestreldesigngroup.com

SILVA CELLS FOR STORMWATER TREE APPLICATIONS

STORM.xCB | Silva Cell Stormwater System for Variable Pavement Types: Catch Basin

FOR INFORMATIONAL USE ONLY - NOT FOR CONSTRUCTION

SILVA CELL 2 FOR STORMWATER TREES

STORM.xCB

SHEET: 1 OF 2

SCALE: Not To Scale

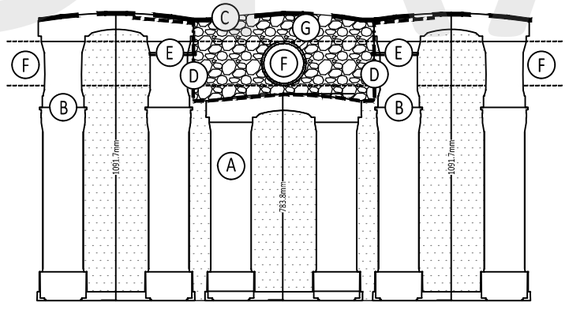
CB1

1
CB2

STORMWATER TREE APPLICATION | STORM.xCB | SAMPLE INLET IMAGE

NOT TO SCALE

IMAGE SOURCE: http://ebpave.com/wp-content/themes/quark/images/eco-drain.jpg



FOR INFORMATIONAL USE ONLY - NOT FOR CONSTRUCTION

2
CB2

STORMWATER TREE APPLICATION | STORM.xCB | TYPICAL DISTRIBUTION PIPE DETAIL

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) GEOTEXTILE FABRIC
- (D) GEOGRID. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (E) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (F) DISTRIBUTION PIPE ASSEMBLY
- (G) CLEAR STONE AGGREGATE

NOTES

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STORM.xCB | Silva Cell Stormwater System for Variable Pavement Types: Catch Basin

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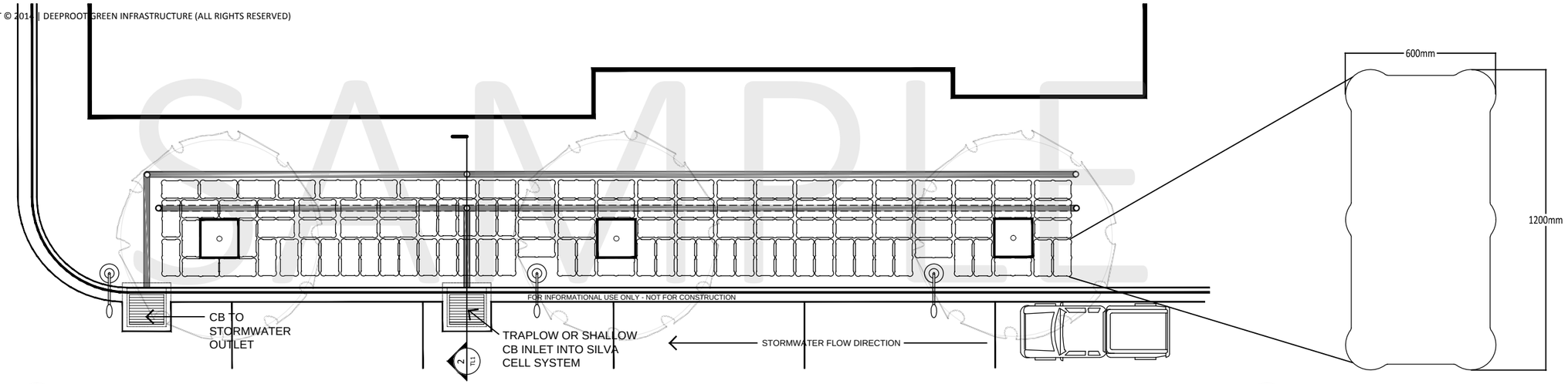
SILVA CELL 2 FOR STORMWATER TREES

STORM.xCB

SHEET: 2 OF 2

SCALE: Not To Scale

CB2

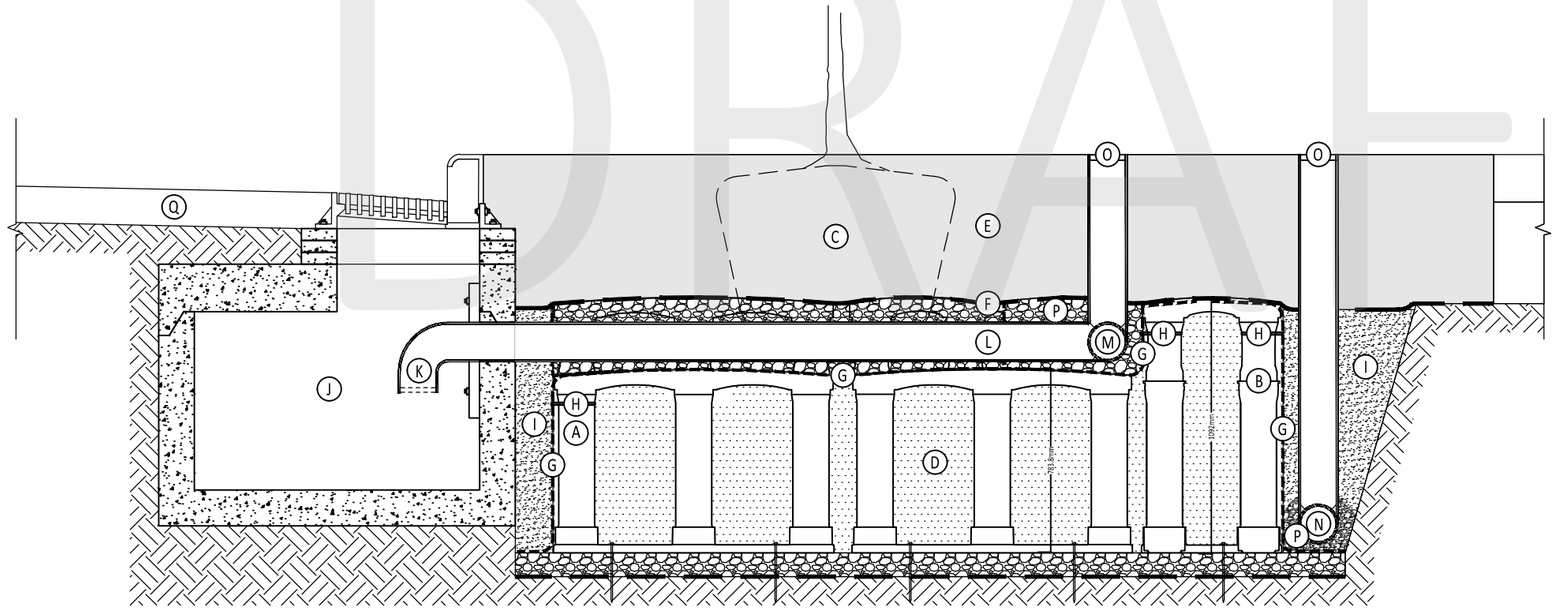


1 / TL1 STORMWATER TREE APPLICATION | STORM.xTL | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: TRAPLOW CATCH BASIN - SAMPLE LAYOUT

NOT TO SCALE

3 / TL1 TYPICAL SILVA CELL

NOT TO SCALE



2 / TL1 STORMWATER TREE APPLICATION | STORM.xTL | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: TRAPLOW CATCH BASIN - SECTION

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) TREE IN STORMWATER SILVA CELL SYSTEM, SIZE VARIES
- (D) BIORETENTION PLANTING SOIL, PER PROJECT
- (E) PAVEMENT SECTION, PER PROJECT
- (F) GEOTEXTILE 450mm MIN OVERLAP PAST EXCAVATION
- (G) GEOGRID, PER PROJECT SPECIFICATION. MAX. APERTURE SIZE DETERMINED BY AGGREGATE CLEAR STONE Ø FOR STORMWATER DISTRIBUTION PIPE. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (H) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (I) BACKFILL, PER PROJECT SPECIFICATIONS
- (J) TRAPLOW OR SHALLOW CATCH BASIN WITH CURB INLET AND GRATE, PER PROJECT
- (K) STORMWATER DISTRIBUTION PIPE INLET INTO SILVA CELLS WITH TRASH FILTER, SIZE AND MATERIAL PER PROJECT
- (L) SOLID DISTRIBUTION PIPE INTO SILVA CELL SYSTEM. SEE DETAIL 2 / TL2
- (M) PERFORATED DISTRIBUTION PIPE IN AGGREGATE CLEAR STONE.
- (N) UNDERDRAIN, ENSURE POSITIVE DRAINAGE TO STORMWATER OUTFALL
- (O) CLEANOUT PIPE WITH CAP, PER PROJECT AND PER CITY STANDARDS. SECURE TO PAVEMENT AT SURFACE
- (P) CLEAR STONE AGGREGATE, PER PROJECT
- (Q) ROADWAY

NOTES

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SILVA CELLS FOR STORMWATER TREE APPLICATION

STORM.xTL | Silva Cell Stormwater System for Variable Pavement Types: Traplow or Shallow Catch Basin

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xTL

SHEET: 1 OF 2

SCALE: Not To Scale

TL1

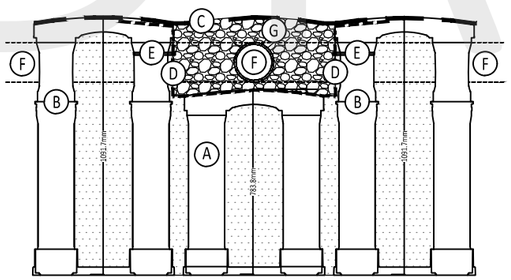
K:\DG FILE NAME AND LOCATION | \\07337 DeepRoot_KD Jobs\KD.14.010 Silva Cell 2\Silva Cell 2_TitleBlock_Stormwater_Imperial_11x17.dwg

\\07337 DEEPROOT_KD JOBS\KD14.010 SILVA CELL 2\TITLE-BLOCK\SILVA CELL 2_TITLEBLOCK-11x17.DWG

1 / TL2 STORMWATER TREE APPLICATION | STORM.xTL | SAMPLE INLET IMAGE

NOT TO SCALE

IMAGE SOURCE: http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/images/drainage18.jpg



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2 / TL2 STORMWATER TREE APPLICATION | STORM.xTL | TYPICAL DISTRIBUTION PIPE DETAIL

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) GEOTEXTILE FABRIC
- (D) GEOGRID. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (E) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (F) DISTRIBUTION PIPE ASSEMBLY
- (G) CLEAR STONE AGGREGATE

NOTES

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SILVA CELLS FOR STORMWATER TREE APPLICATIONS

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xTL

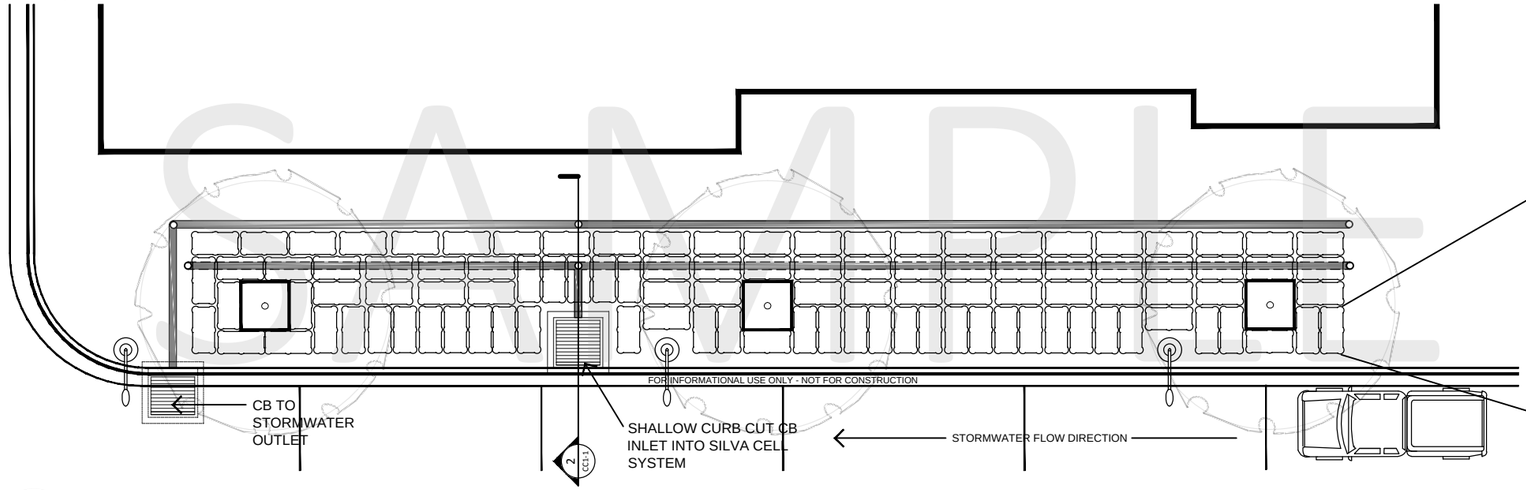
SHEET: 2 OF 2

SCALE: Not To Scale

TL2

KDG FILE NAME AND LOCATION | \\07337 DeepRoot_KD Jobs\KD.14.010 Silva Cell 2\Silva Cell 2_TitleBlock_Stormwater_Imperial_11x17.dwg

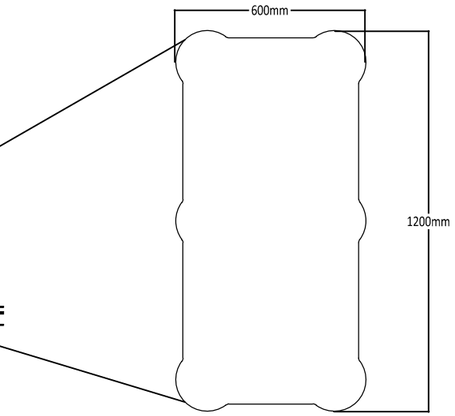
\\07337 DEEPROOT_KD JOBS\KD14.010 SILVA CELL 2\TITLE BLOCK\SILVA CELL 2_TITLEBLOCK-11x17.DWG



1 CC1-1 STORMWATER TREE APPLICATION | STORM.xCC1 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 1 - SAMPLE LAYOUT

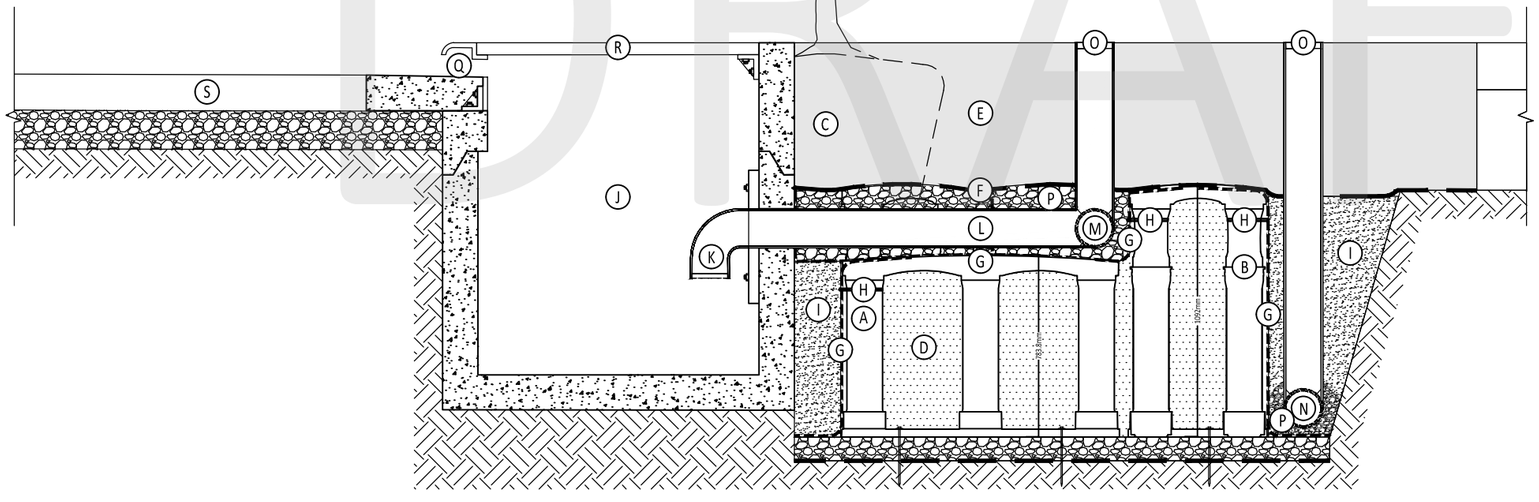
NOT TO SCALE

NOT FOR CONSTRUCTION



3 CC1-1 TYPICAL SILVA CELL

NOT TO SCALE



2 CC1-1 STORMWATER TREE APPLICATION | STORM.xCC1 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 1 - SECTION

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) TREE IN STORMWATER SILVA CELL SYSTEM BEYOND INLET, SIZE VARIES.
- (D) BIORETENTION PLANTING SOIL, PER PROJECT
- (E) PAVEMENT SECTION, PER PROJECT
- (F) GEOTEXTILE 450mm MIN OVERLAP PAST EXCAVATION
- (G) GEOGRID, PER PROJECT SPECIFICATION. MAX. APERTURE SIZE DETERMINED BY AGGREGATE CLEAR STONE Ø FOR STORMWATER DISTRIBUTION PIPE. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (H) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (I) BACKFILL, PER PROJECT SPECIFICATIONS
- (J) TRAP LOW OR SHALLOW CATCH BASIN WITH CURB INLET AND GRATE, PER PROJECT
- (K) STORMWATER DISTRIBUTION PIPE INLET INTO SILVA CELLS WITH TRASH FILTER, SIZE AND MATERIAL PER PROJECT
- (L) SOLID DISTRIBUTION PIPE INTO SILVA CELL SYSTEM. SEE DETAIL 2 / CC1-2
- (M) PERFORATED DISTRIBUTION PIPE IN AGGREGATE CLEAR STONE.
- (N) UNDERDRAIN, ENSURE POSITIVE DRAINAGE TO STORMWATER OUTFALL
- (O) CLEANOUT PIPE WITH CAP, PER PROJECT AND PER CITY STANDARDS. SECURE TO PAVEMENT AT SURFACE
- (P) CLEAR STONE AGGREGATE, PER PROJECT
- (Q) STORMWATER INLET INTO CURB CUT OR RECESSED AREA
- (R) REMOVABLE INLET ACCESS COVER OR INLET GRATE
- (S) ROADWAY

NOTES

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deeproot
DeepRoot Green Infrastructure - USA
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San Francisco, CA 94104
www.deeproot.com
T 415 781 9700
F 415 781 0191

JAMES URBAN, FASLA
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Annapolis, MD 21403
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7109 Ohms Lane
Minneapolis,MN 55439
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F 952 224 9860
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SILVA CELLS FOR STORMWATER TREE APPLICATIONS

STORM.xCC1 | Silva Cell Stormwater System for Variable Pavement Types: Curb Cut Catch Basin Type 1

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC1

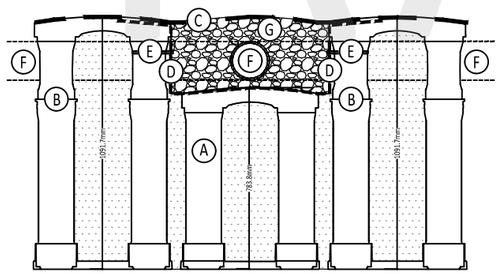
SHEET: 1 OF 2

SCALE: Not To Scale

CC1-1

1 / CC1-2 STORMWATER TREE APPLICATION | STORM.xCC1 | SAMPLE INLET IMAGE

NOT TO SCALE



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2 / CC1-2 STORMWATER TREE APPLICATION | STORM.xCC1 | TYPICAL DISTRIBUTION PIPE DETAIL

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) GEOTEXTILE FABRIC
- (D) GEOGRID. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (E) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (F) DISTRIBUTION PIPE ASSEMBLY
- (G) CLEAR STONE AGGREGATE

NOTES

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SILVA CELLS FOR STORMWATER TREE APPLICATIONS

STORM.xCC1 | Silva Cell Stormwater System for Variable Pavement Types: Curb Cut Catch Basin Type 1

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC1

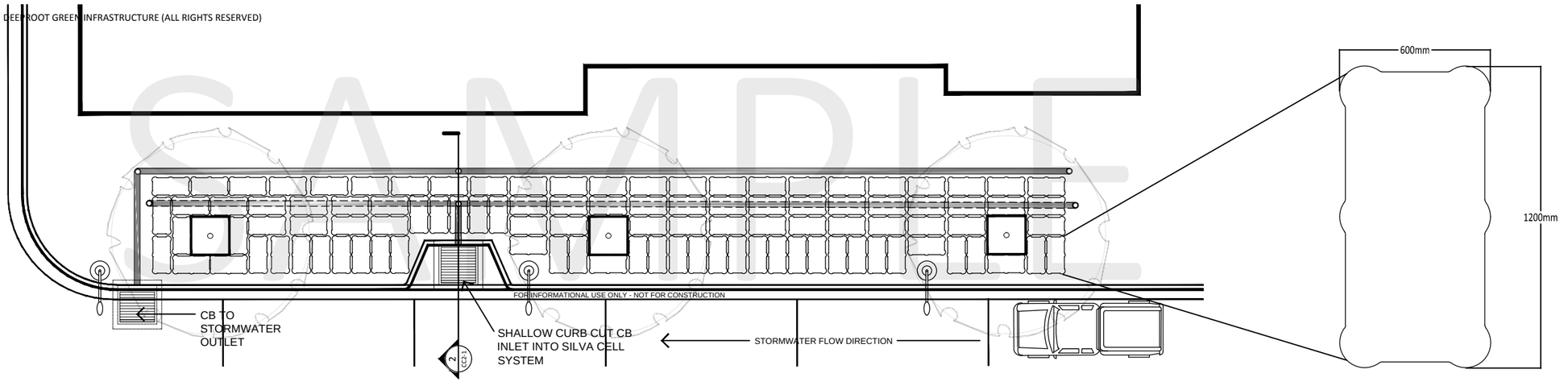
SHEET: 2 OF 2

SCALE: Not To Scale

CC1-2

KDG FILE NAME AND LOCATION | \\07337 DeepRoot_KD Jobs\KD 14.010 Silva Cell 2\Silva Cell 2_TitleBlock_Stormwater_Imperial_11x17.dwg

\\07337 DEEPROOT_KD JOBS\KD14.010 SILVA CELL 2\TITLE BLOCK\SILVA CELL 2_TITLEBLOCK-11x17.DWG

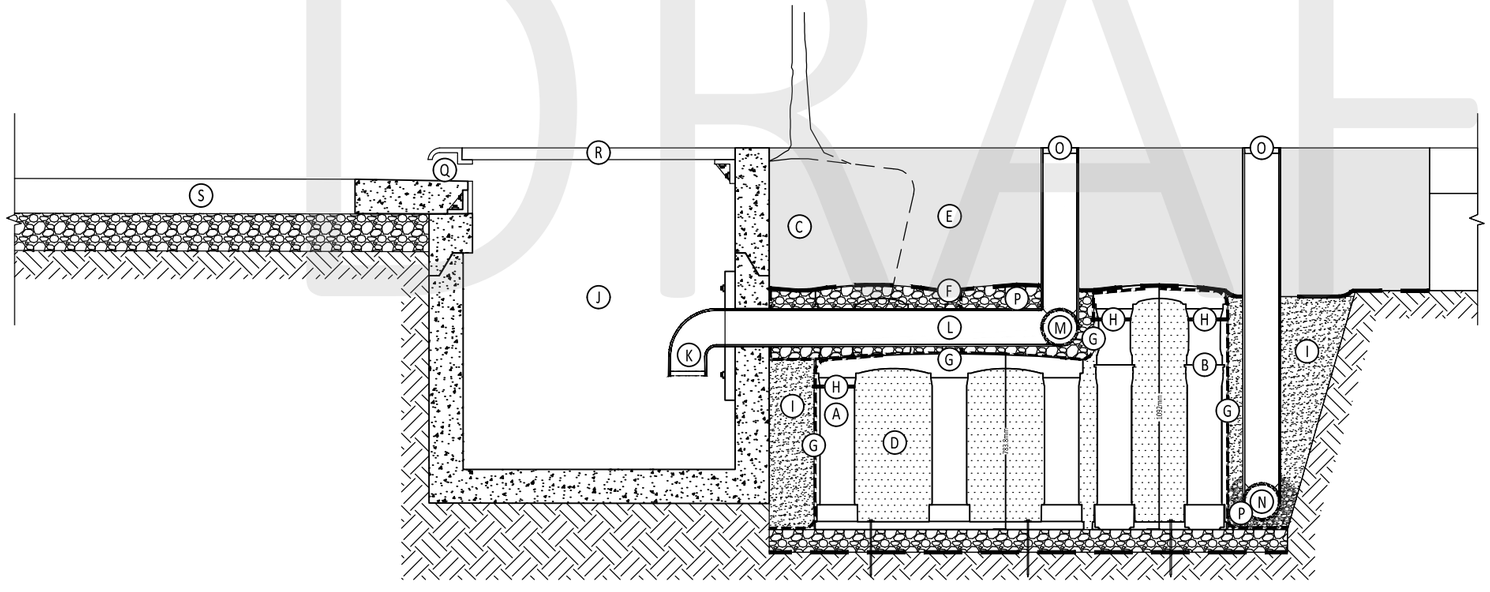


1 / CC2-1 STORMWATER TREE APPLICATION | STORM.xCC2 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 2 - SAMPLE LAYOUT

NOT TO SCALE

3 / CC2-1 TYPICAL SILVA CELL

NOT TO SCALE



2 / CC1-1 STORMWATER TREE APPLICATION | STORM.xCC1 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 1 - SECTION

NOT TO SCALE

KEY PLAN

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- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) TREE IN STORMWATER SILVA CELL SYSTEM BEYOND INLET, SIZE VARIES.
- (D) BIORETENTION PLANTING SOIL, PER PROJECT
- (E) PAVEMENT SECTION, PER PROJECT
- (F) GEOTEXTILE 450mm MIN OVERLAP PAST EXCAVATION
- (G) GEOGRID, PER PROJECT SPECIFICATION. MAX. APERTURE SIZE DETERMINED BY AGGREGATE CLEAR STONE Ø FOR STORMWATER DISTRIBUTION PIPE. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (H) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (I) BACKFILL, PER PROJECT SPECIFICATIONS
- (J) TRAP LOW OR SHALLOW CATCH BASIN WITH CURB INLET AND GRATE, PER PROJECT
- (K) STORMWATER DISTRIBUTION PIPE INLET INTO SILVA CELLS WITH TRASH FILTER, SIZE AND MATERIAL PER PROJECT
- (L) SOLID DISTRIBUTION PIPE INTO SILVA CELL SYSTEM. SEE DETAIL 2 / CC1-2
- (M) PERFORATED DISTRIBUTION PIPE IN AGGREGATE CLEAR STONE.
- (N) UNDERDRAIN, ENSURE POSITIVE DRAINAGE TO STORMWATER OUTFALL
- (O) CLEANOUT PIPE WITH CAP, PER PROJECT AND PER CITY STANDARDS. SECURE TO PAVEMENT AT SURFACE
- (P) CLEAR STONE AGGREGATE, PER PROJECT
- (Q) STORMWATER INLET INTO CURB CUT OR RECESSED AREA
- (R) REMOVABLE INLET ACCESS COVER OR INLET GRATE
- (S) ROADWAY

NOTES

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SILVA CELLS FOR STORMWATER TREE APPLICATIONS

STORM.xCC2 | Silva Cell Stormwater System for Variable Pavement Types: Curb Cut Catch Basin Type 2

FOR INFORMATIONAL USE ONLY - NOT FOR CONSTRUCTION

SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC2

SHEET: 1 OF 2

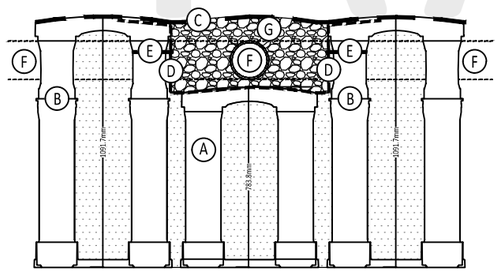
SCALE: Not To Scale

CC2.1

1
CC2-2

STORMWATER TREE APPLICATION | STORM.xCC2 | SAMPLE INLET IMAGE

NOT TO SCALE



FOR INFORMATIONAL USE ONLY - NOT FOR CONSTRUCTION

2
CC2-2

STORMWATER TREE APPLICATION | STORM.xCC2 | TYPICAL DISTRIBUTION PIPE DETAIL

NOT TO SCALE

KEY PLAN

- (A) 2x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) 3x SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (C) GEOTEXTILE FABRIC
- (D) GEOGRID. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (E) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (F) DISTRIBUTION PIPE ASSEMBLY
- (G) CLEAR STONE AGGREGATE

NOTES

1. DETAIL TO BE USED IN CONJUNCTION WITH SILVA CELL STANDARD DETAILS, IN ACCORDANCE WITH ALL MANUFACTURER'S SPECIFICATIONS
2. DEEPROOT ACCEPTS NO LIABILITY FOR PROJECT APPLICATION OF DETAILS SHOWN

deeproot
DeepRoot Green Infrastructure - USA
101 Montgomery Street, Suite 2850
San Francisco, CA 94104
www.deeproot.com
T 415 781 9700
F 415 781 0191

JAMES URBAN, FASLA
915 Creek Drive
Annapolis, MD 21403
410 263 4838 | www.jamesurban.net

PREPARED BY
KestrelDesignGroup
the green + blue infrastructure company
7109 Ohms Lane
Minneapolis,MN 55439
T 952 928 9600
F 952 224 9860
www.kestreldesigngroup.com

RELEASE VERSION: v1.1 | RELEASE DATE: 11.10.2014

SILVA CELLS FOR STORMWATER TREE APPLICATIONS

STORM.xCC2 | Silva Cell Stormwater System for Variable Pavement Types: Curb Cut Catch Basin Type 2

FOR INFORMATIONAL USE ONLY - NOT FOR CONSTRUCTION

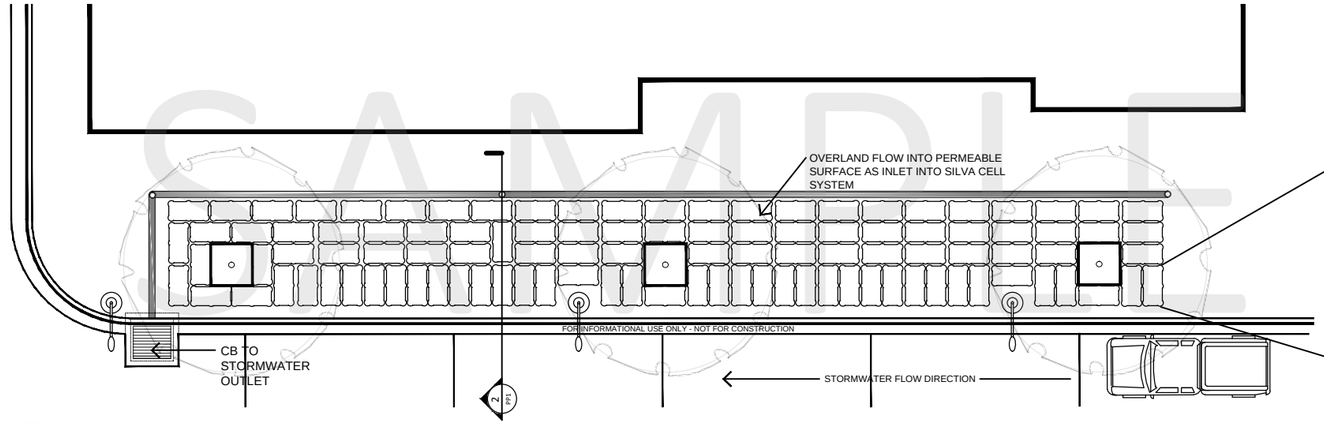
SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC2

SHEET: 2 OF 2

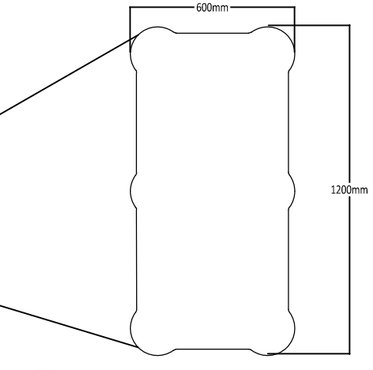
SCALE: Not To Scale

CC2-2



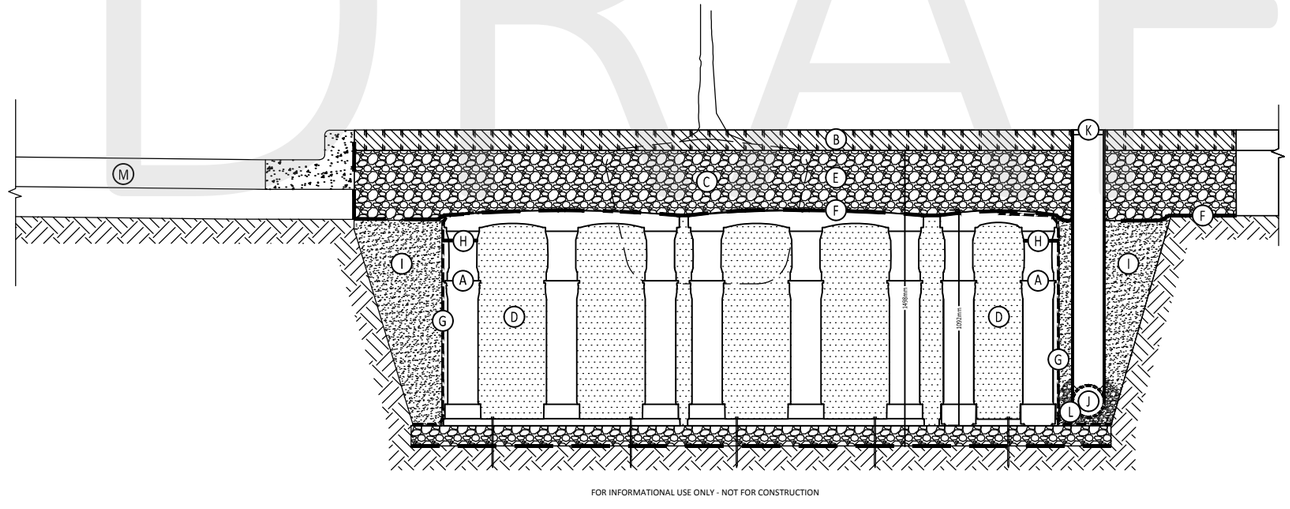
1 / PP1 STORMWATER TREE APPLICATION | STORM.xPP | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: PERMEABLE PAVEMENT - SAMPLE LAYOUT

NOT TO SCALE



3 / PP1 TYPICAL SILVA CELL

NOT TO SCALE



2 / PP1 STORMWATER TREE APPLICATION | STORM.xPP | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: PERMEABLE PAVEMENT - SECTION

NOT TO SCALE

KEY PLAN

- (A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
- (B) PERMEABLE PAVEMENT, PER PROJECT
- (C) TREE IN STORMWATER SILVA CELL SYSTEM, SIZE VARIES
- (D) BIORETENTION PLANTING SOIL, PER PROJECT
- (E) 300MM MIN AGGREGATE CLEAR STONE BASE, PER PROJECT
- (F) GEOTEXTILE 450mm MIN OVERLAP PAST EXCAVATION
- (G) GEOGRID, PER PROJECT SPECIFICATION. MAX. APERTURE SIZE DETERMINED BY AGGREGATE CLEAR STONE Ø. ATTACH TO CELL FRAMES WITH CABLE TIES.
- (H) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL LEG
- (I) BACKFILL, PER PROJECT SPECIFICATIONS
- (J) UNDERDRAIN, ENSURE POSITIVE DRAINAGE TO STORMWATER OUTFALL
- (K) CLEANOUT PIPE WITH CAP, PER PROJECT AND PER CITY STANDARDS. SECURE TO PAVEMENT AT SURFACE
- (L) CLEAR STONE AGGREGATE, PER PROJECT
- (M) ROADWAY

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xPP

SHEET: 1 OF 1

SCALE: Not To Scale

PP1