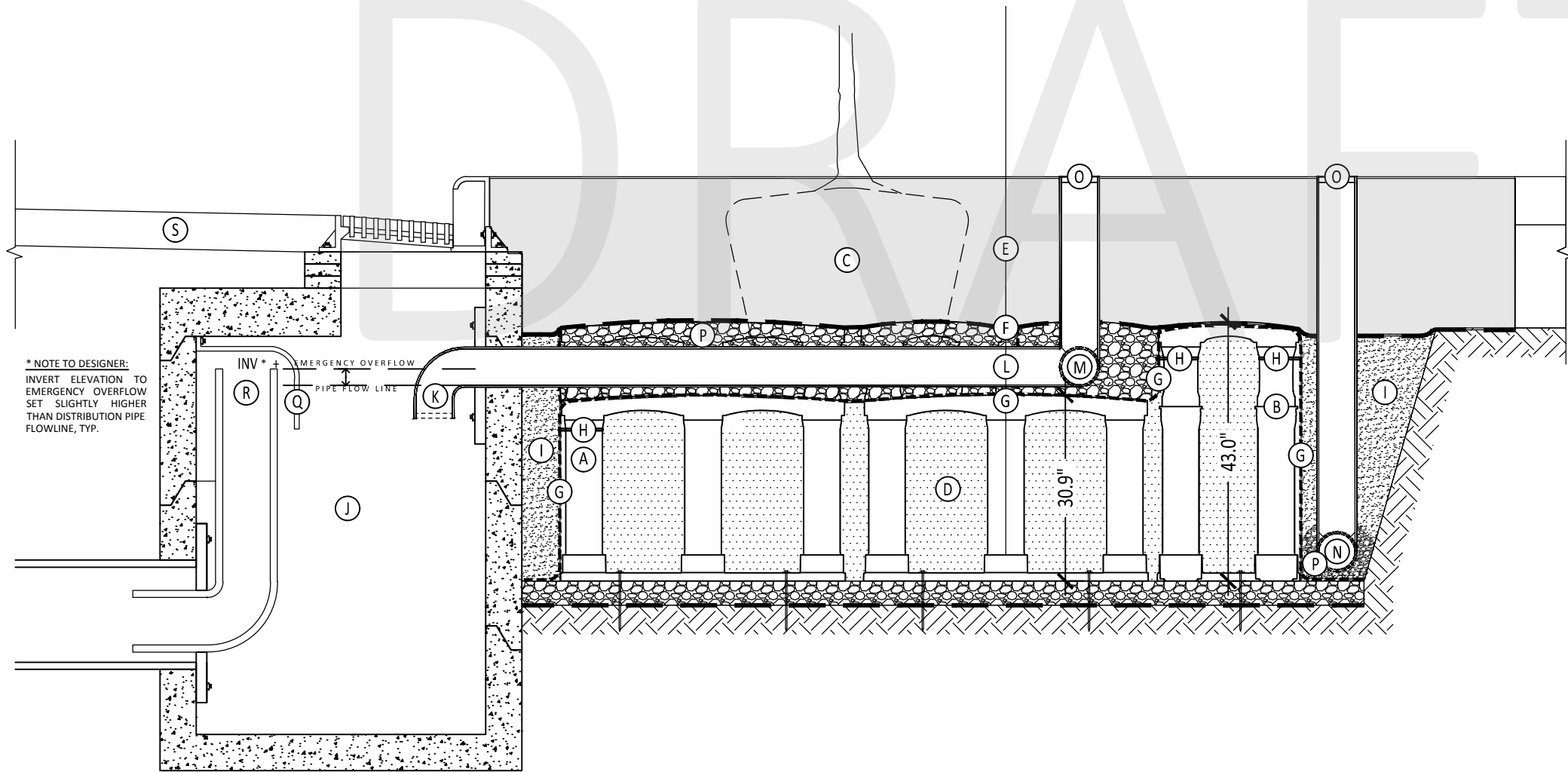


1 CB1 STORMWATER TREE APPLICATION | STORM.xCB | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: STANDARD CATCH BASIN - SAMPLE LAYOUT
NOT TO SCALE

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 18" 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.
- (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

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



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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

CB.1



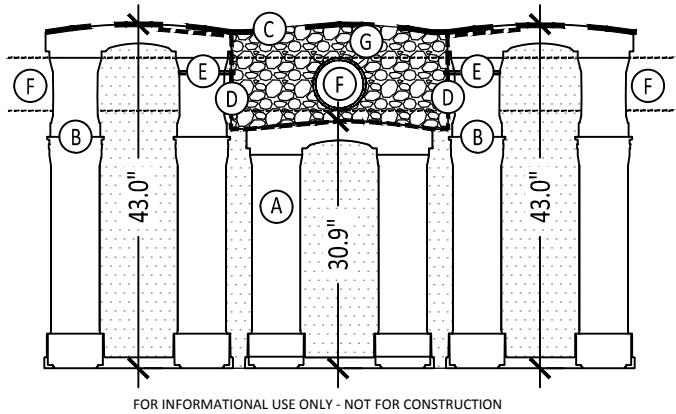
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CB2

STORMWATER TREE APPLICATION | STORM.xCB | SAMPLE INLET IMAGE

NOT TO SCALE

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



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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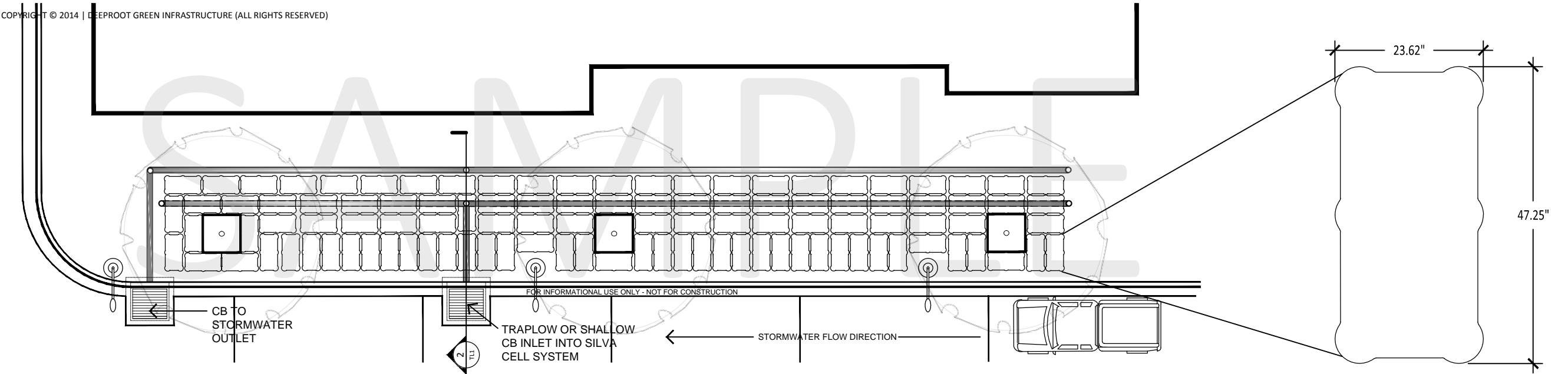
SILVA CELL 2 FOR STORMWATER TREES

STORM.xCB

SHEET: 2 OF 2

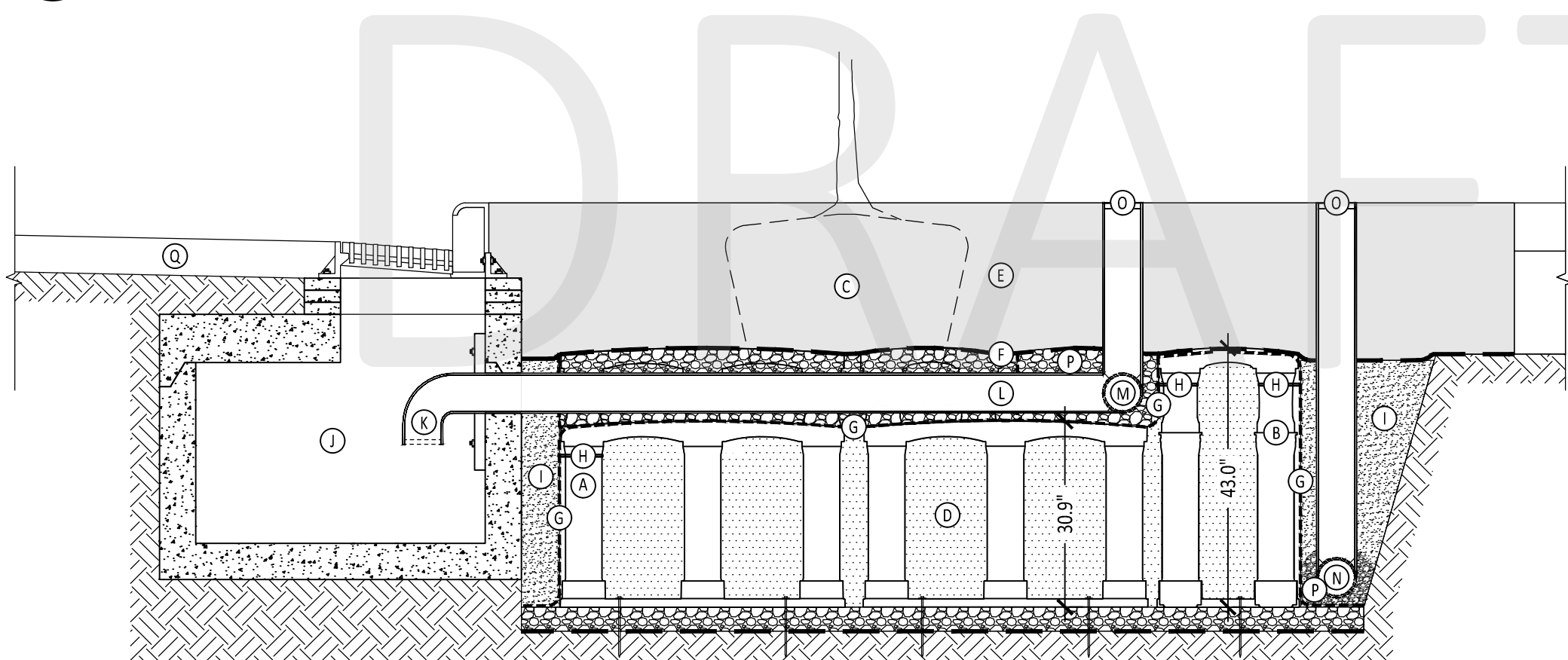
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CB.2



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 18" 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.
- (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 APPLICATIONS
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SILVA CELL 2 FOR STORMWATER TREES

STORM.xTL

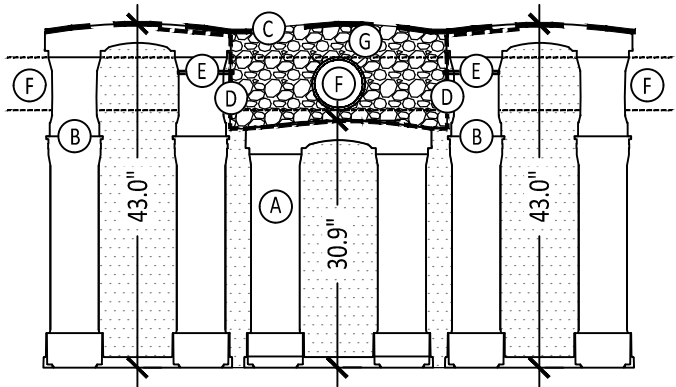


1
TL2

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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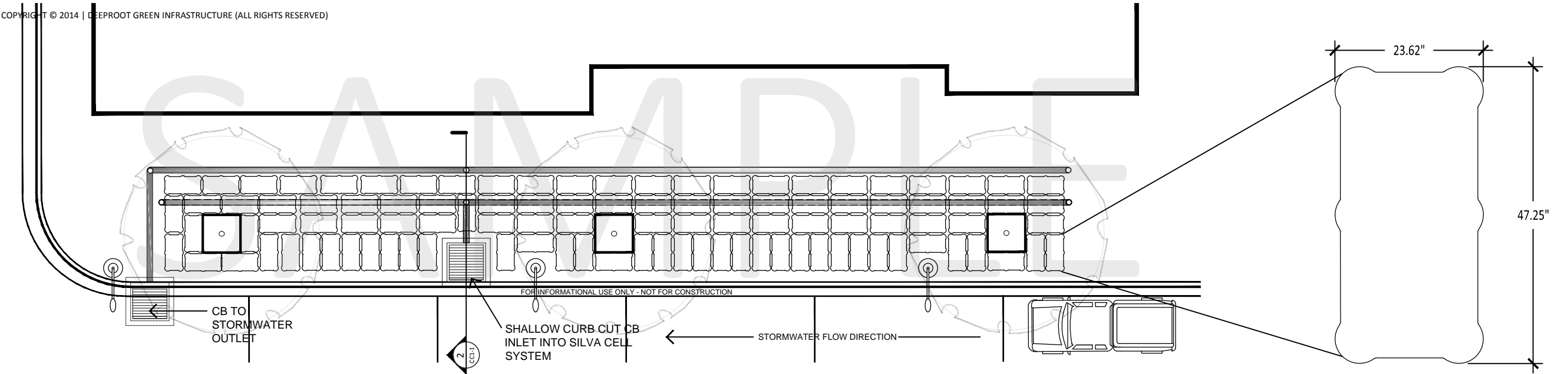
SILVA CELL 2 FOR STORMWATER TREES

STORM.xTL

SHEET: 2 OF 2

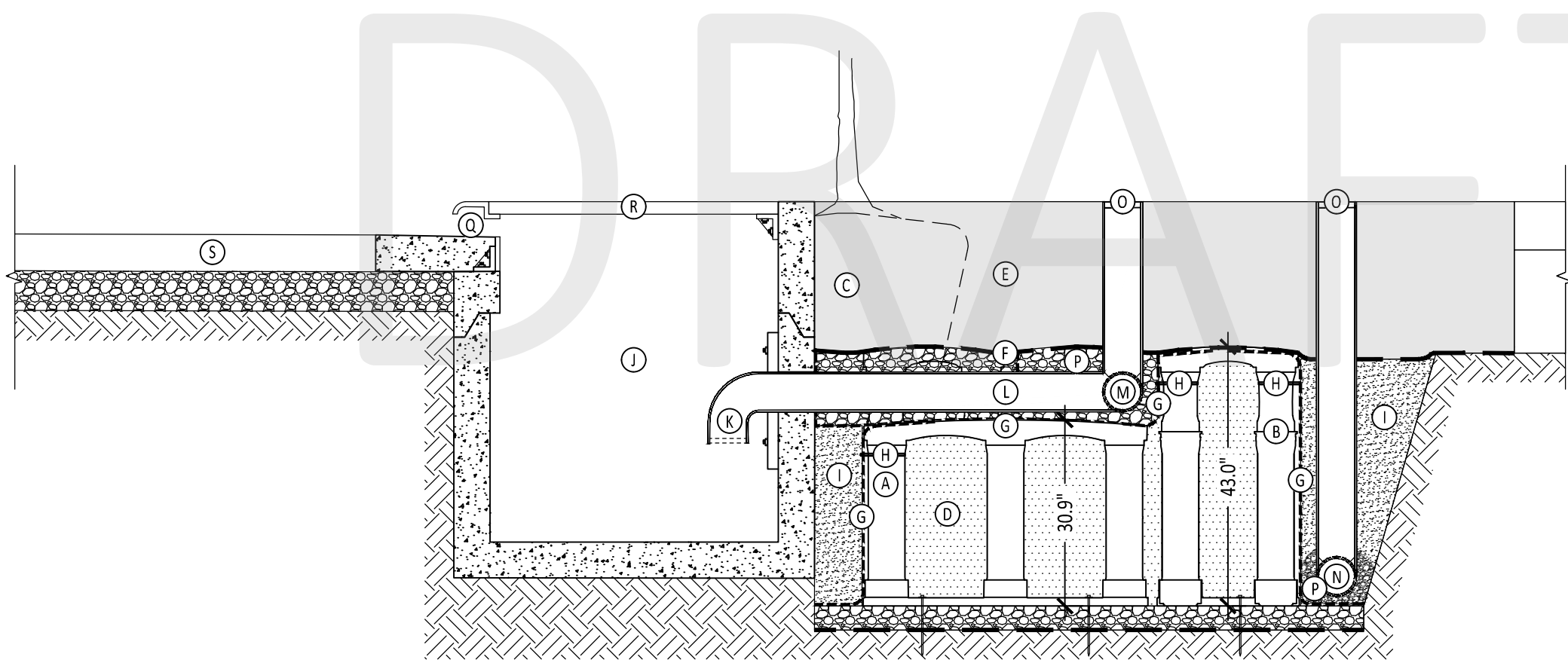
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TL.2



1 STORMWATER TREE APPLICATION | STORM.xCC1 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 1 - SAMPLE LAYOUT
CC1-1 NOT TO SCALE

3 TYPICAL SILVA CELL
CC2-1 NOT TO SCALE



2 STORMWATER TREE APPLICATION | STORM.xCC1 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 1 - SECTION
CC1-1 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 18" 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.
- (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.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

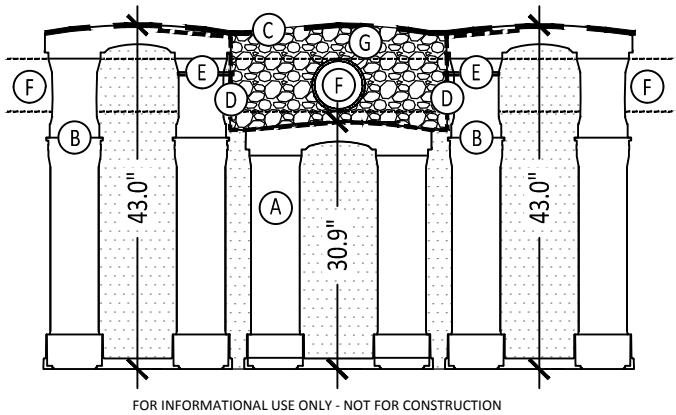


1

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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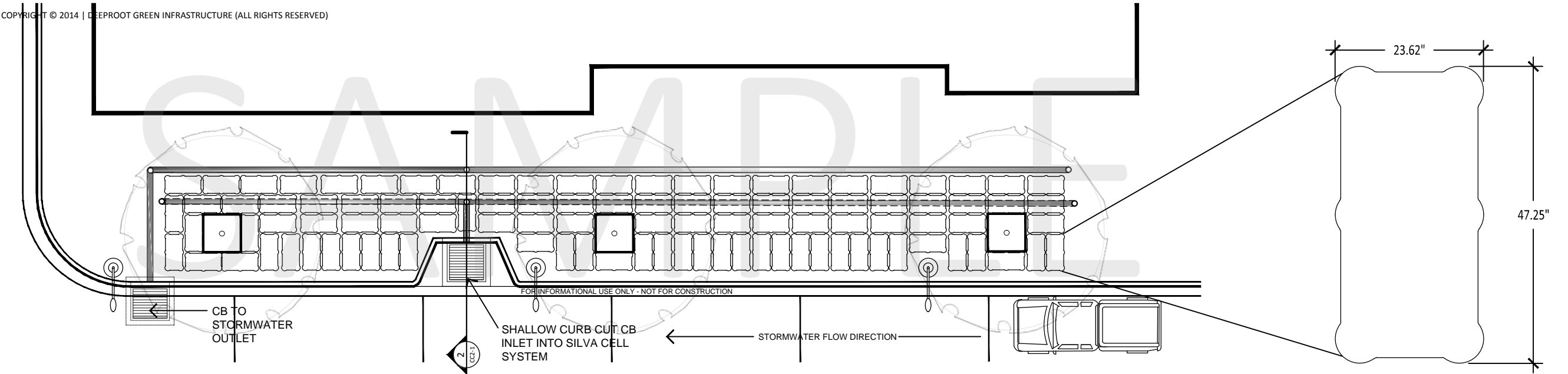
SILVA CELLS FOR STORMWATER TREE APPLICATIONS
STORM.xCC1 | Silva Cell Stormwater System for Variable Pavement Types: Curb Cut Catch Basin Type 1
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SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC1

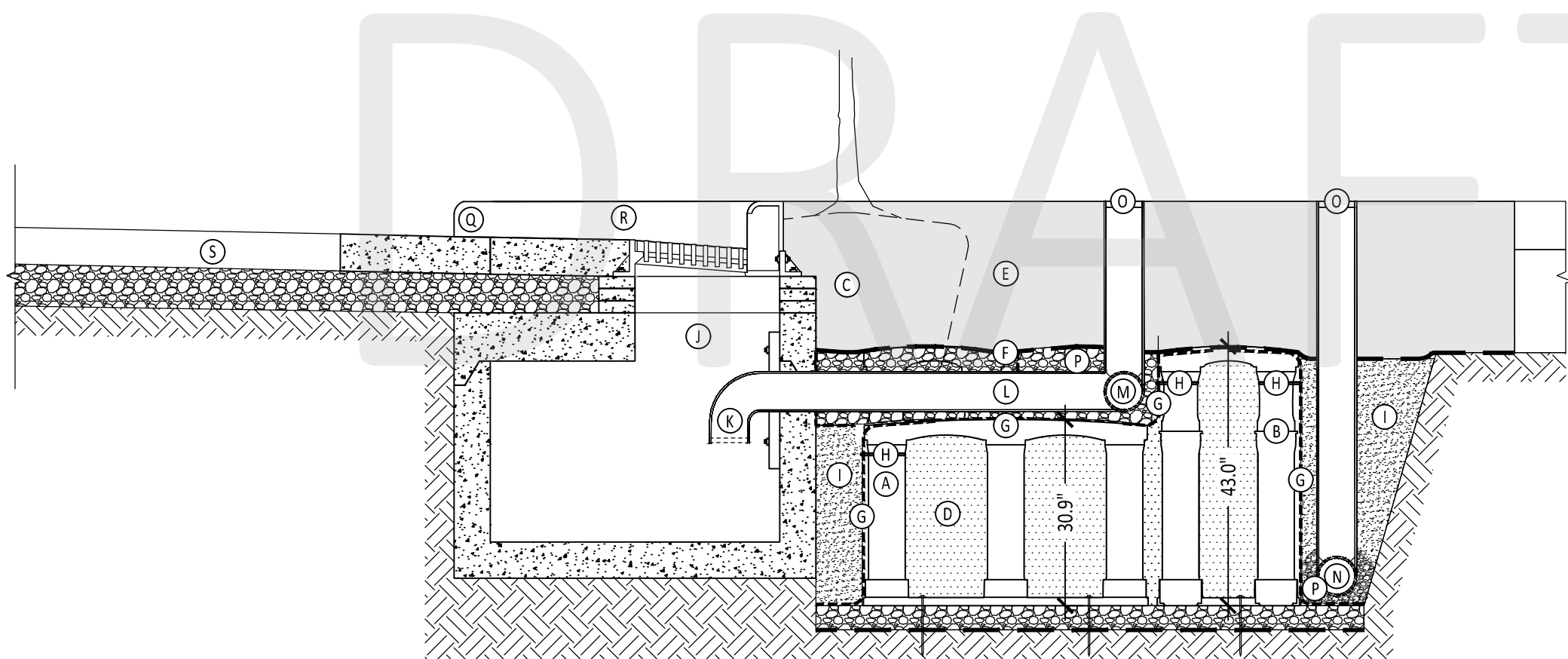
SHEET: 2 OF 2 SCALE: Not To Scale

CC1.2



1 STORMWATER TREE APPLICATION | STORM.xCC2 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 2 - SAMPLE LAYOUT
CC2-1 NOT TO SCALE

3 TYPICAL SILVA CELL
CC2-1 NOT TO SCALE



2 STORMWATER TREE APPLICATION | STORM.xCC2 | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: CURB CUT CATCH BASIN TYPE 2 - SECTION
CC2-1 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 18" 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.
- (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) FACE OF CURB, BEYOND INLET
- (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

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC2

SHEET: 1 OF 2

SCALE: Not To Scale

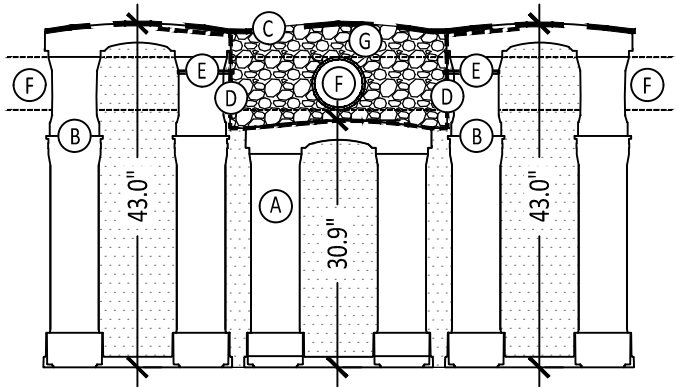
CC2.1



1
CC2-2

STORMWATER TREE APPLICATION | STORM.xCC2 | SAMPLE INLET IMAGE

NOT TO SCALE



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

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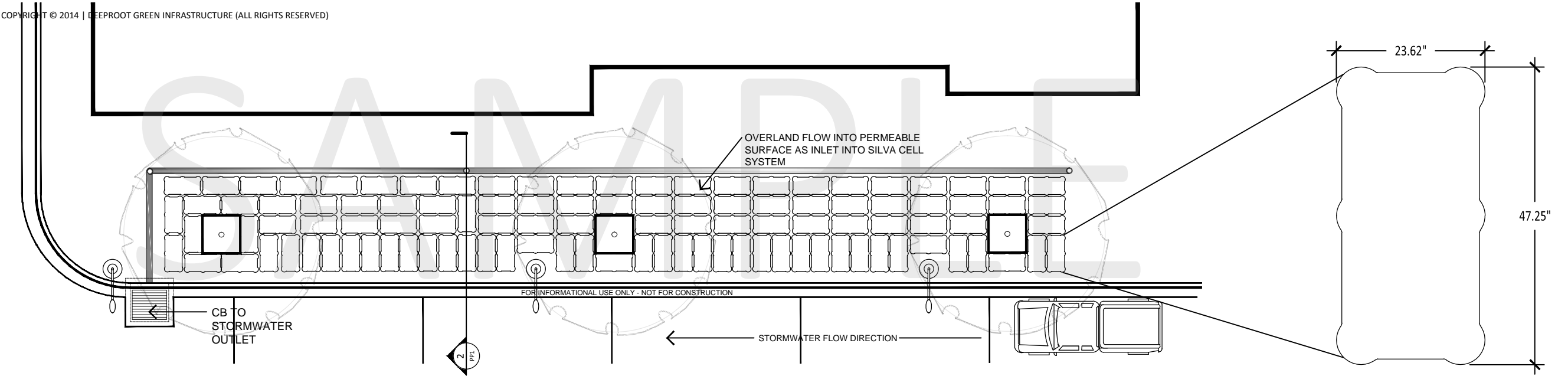
SILVA CELL 2 FOR STORMWATER TREES

STORM.xCC2

SHEET: 2 OF 2

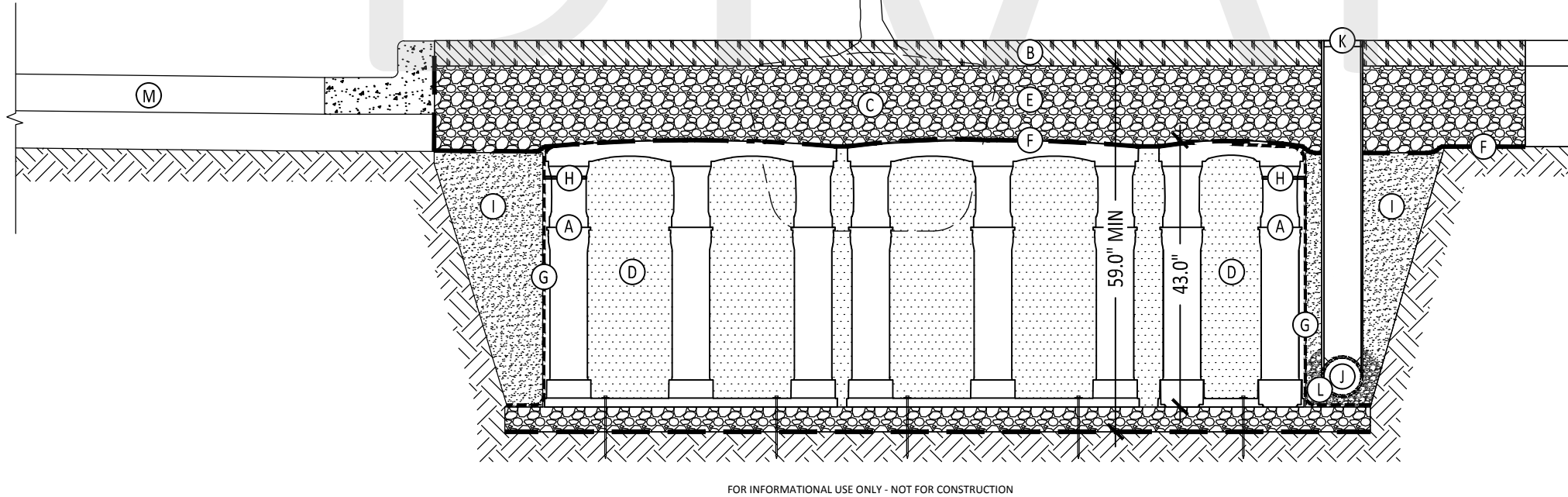
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CC2.2



1 STORMWATER TREE APPLICATION | STORM.xPP | SILVA CELL STORMWATER SYSTEM FOR VARIABLE PAVEMENT TYPES: PERMEABLE PAVEMENT - SAMPLE LAYOUT
NOT TO SCALE

3 TYPICAL SILVA CELL
NOT TO SCALE



2 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) 12" (300MM) MIN AGGREGATE CLEAR STONE BASE, PER PROJECT
- (F) GEOTEXTILE 18" 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

NOTES

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SILVA CELL 2 FOR STORMWATER TREES

STORM.xPP

SHEET: 1 OF 2

SCALE: Not To Scale

PP.1