

# Greening Richmond Public Libraries

IMPROVING THE HEALTH OF THE JAMES RIVER BY REDUCING STORMWATER POLLUTION

## East End Branch Library

1200 North 25th Street, Richmond, 23223

### Legend:

- City Water Sampling Station
  - Water Meter
  - Gas Meter
  - Electric Meter
  - Backflow preventer
  - City Street Lights
  - City Utility Pole
  - Hose Bib
  - City Electrical Vault
  - Gas Vault
  - Clean out
- Existing Trees & Shrubs To Be Preserved:

#### NOTES

THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES IS SHOWN ON THIS PLAN, CONTRACTOR TO CONTACT MISS UTILITY AND LOCATE GAS LINE CLOSEST TO PROPOSED IMPROVEMENTS ON R STREET.

CONTRACTOR TO ASSUME ALL RESPONSIBILITY FOR CONSTRUCTION METHODS EMPLOYED AND FIELD VERIFY ALL DIMENSIONS. ISSUES AND CONCERNS SHALL BE REPORTED TO FOUR WINDS.

CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AT ALL TIMES DURING THE DEMOLITION AND BUILDING PROCESS.

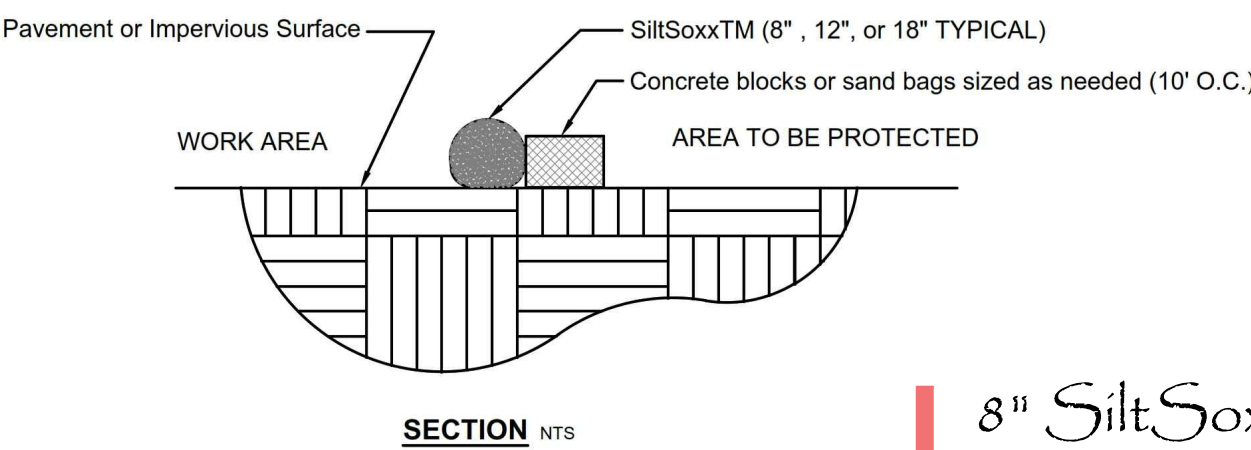
NO PUBLIC THOROUGHFARES INCLUDING SIDEWALKS SHALL BE BLOCKED DURING DEMOLITION OR CONSTRUCTION WITHOUT PROPERLY DISPLAYED MUNICIPALITY PERMITS. NO HOLES SHALL BE LEFT OPEN OVERNIGHT WITHOUT SECURING PERIMETER FENCING OR INSTALLING CAUTION TAPE AROUND THE HOLE.

CONTRACTOR TO OBTAIN ALL BUILDING PERMITS, SOIL STUDIES, AND STRUCTURAL DETAILS AS REQUIRED BY THE MUNICIPALITY.

CONTRACTOR AND MASON AND SUBCONTRACTORS IF APPLICABLE TO ATTEND A PRECONSTRUCTION MEETING WITH JRA REPRESENTATIVES AND FOUR WINDS DESIGN.

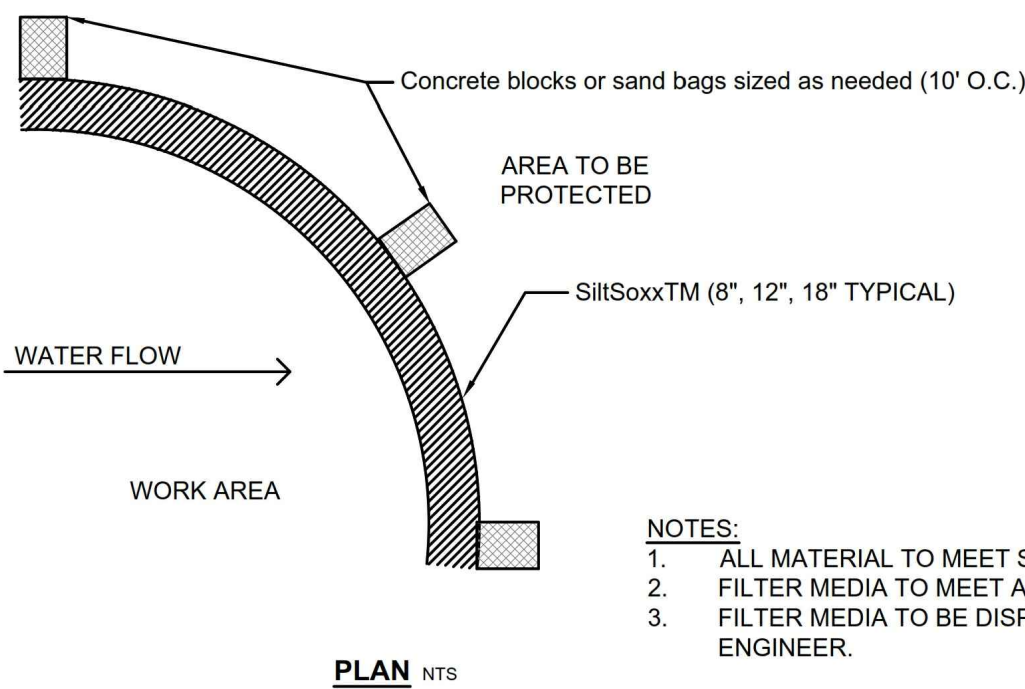
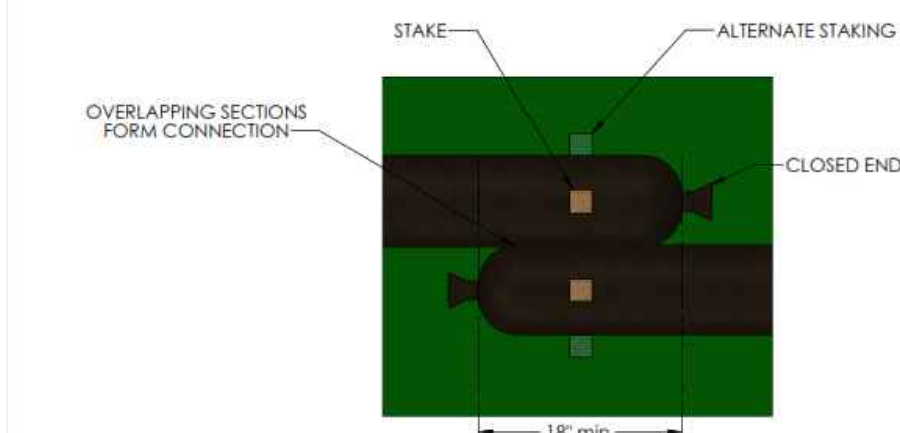
CONTRACTOR TO DOCUMENT DEPTH OF EXCAVATION IN PROPOSED BIORETENTION AND PERVIOUS PAVEMENT AREAS WITH PICTURES THAT SHOW MEASURING TAPE DIMENSIONS IN HOLES. THESE PICTURES SHALL BE EMAILED TO FOUR WINDS AS THEY ARE TAKEN. MINIMUM ONE PICTURE PER HOLE OR VARIED DEPTH APPLICATIONS.

THIS DRAWING SHALL BE PRINTED IN COLOR AND PRINTS TO SCALE ON 24"x36" PAPER. USING SMALLER PRINT SIZES IN THE FIELD IS NOT PERMISSIBLE. A COPY OF THE CITY APPROVED DRAWINGS AND STORMWATER PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.



8" SiltSoxx  
secured in place

#### COMPOST SOCK CONNECTION/ATTACHMENT DETAIL



#### SiltSoxxTM for Sediment Control on Pavement

NTS

- NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
  2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
  3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



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Backflow preventer
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City Utility Pole
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Hose Bib
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City Electrical Vault
- ⊙

Gas Vault
- ⊕

Clean out
- Bollard, 8
- ⊙

Proposed Trash Can, 3
- ◆

Interpretive Sign
- Proposed Bioretention Basins
- ▨

Velocity reducer & trash /salt trap, see detail
- Bee Zone Markers, 10
- ▬

Roll down curbs for ingress/ egress of stormwater
- ⊕

Bioretention basin inspection port, connect to underdrain, see notes
- ⊗

No Parking sign, 7
- Freestanding Trellis

Existing Trees & Shrubs To Be Preserved:

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IRRIGATION WILL BE INSTALLED BY RICHMOND IRRIGATION, CONTACT DAN BRADY FOR QUOTE TO INCLUDE IN CONTRACTORS PROPOSAL. SEE PLANTING PLAN FOR LAYOUT NARRATIVE FOR CONSIDERATION IN CONCRETE WORK.

THE PERVIOUS PAVERS WILL BE INSTALLED IN A SEPARATE PHASE TO OCCUR IN WINTER 2023.

AFTER ALL DEBRIS HAS BEEN REMOVED FROM FORMER PAVED AREAS AND WITHIN THE PLANTERS, A TOPSOIL/ COMPOST MIX SHALL BE INSTALLED TO BRING GRADES BACK UP TO 3" BELOW ALL PAVING OR WALL CAPS TO REMAIN.

THE BOTTOM OF THE BIORETENTION BASIN SHALL BE SCARIFIED BEFORE INSTALLATION OF MEDIA IF THE BASIN HAS RECEIVED ANY FOOT TRAFFIC OR COMPACTION. MAINTAIN SOIL DEPTH AS NOTED.

THE BIORETENTION SOIL SHALL BE 80% COARSE (MORTAR) SAND, 10% HIGH GRADE TOPSOIL, AND 10% LEAF OR MUSHROOM COMPOST.

SOIL TESTING: CONTRACTOR TO PROVIDE TESTING OF THE BIORETENTION SOIL MIX FOR ACCEPTABLE PHOSPHOROUS LEVELS. THE MIX SHALL HAVE A P-INDEX BETWEEN 10 AND 30 OR BETWEEN 7 AND 21 MG/ KG OF PHOSPHOROUS TOTAL IN THE SOIL MIX.

EACH BIORETENTION BASIN SHALL HAVE A 6" PERFORATED SCHEDULE 40 PVC PIPE IN A NYLON SOCK RUNNING THE LENGTH OF THE BASIN. THESE UNDERDRAINS SHALL BE DEAD LEVEL. A STANDPIPE TO THE SURFACE SHOULD BE FITTED WITH A METAL SCREW CAP. THESE INSPECTION PORTS ALLOW MAINTENANCE CREWS TO CONFIRM THE BASIN HASN'T BECOME SILTED IN THE FUTURE.

BASIN C SHALL HAVE AN OVERFLOW STANDPIPE INDEPENDENT OF THE UNDERDRAIN. THE PIPE SHALL BE 8" SCHEDULE 40 PVC WITH A FINISHED ELEVATION 3" ABOVE FINISHED ENGINEERED SOIL HEIGHT. IT SHALL BE FITTED WITH AN 8" DOMED TRASH RACK/ FLOATING DEBRIS GRATE. THE OVERFLOW PIPE SHALL BE CONNECTED TO THE EXISTING 20" BELOW GRADE CITY STORM SEWER UNDER THE STREET, SEE SHEET 1 FOR LOCATION.

THE TRASH CANS SHALL BE TF 1040 BY BELSON OUTDOORS WITH OPTIONAL ASH URN ATTACHMENT (PART TF2090). STANDARD COLOR/ FINISH SELECTED AT AWARD OF PROJECT CONTRACT.

NON-WOVEN GEOTEXTILE SHALL HAVE A FLOW RATE > 110 GAL/ MIN/ SQ FT (GEOTEX 351 OR EQUIVALENT).

THE NO PARKING SIGNS ON 25TH STREET SHALL BE 1" STEEL PIPE OR SIMILAR, SET 24" BELOW GRADE IN 160 LBS OF CONCRETE (THESE ARE BEING USED AS BOLLARDS).

Bioretention Basin Sizes and Media Depths

Basin	Basin Footprint	Engineered Soil Depth	Gravel Layer Depth	Underdrain	Overflow
A	216 square feet	24"	none	6" perf PVC	stone ledge into Basin B
B	260 square feet	24"	none	6" perf PVC	stone ledge into Basin C
C	69 square feet	24"	none	6" perf PVC	standpipe to city storm sewer
1	64 square feet	30"	12"	6" perf PVC	back into street
2	87 square feet	30"	12"	6" perf PVC	back into street
3	68 square feet	30"	12"	6" perf PVC	back into street

Pour new curb and gutter to layout shown, see detail

Public Alley

Richmond Public Libraries  
East End Branch

Pervious Paver  
Parking Lot,  
see detail

Repaint  
parking stalls  
and reinstall  
parking blocks  
(not shown)

Drop off Area

25th Street

Pour new curb and gutter to layout shown, see detail



Date: 7-19-22 Sheet 3 of 4



