**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

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**Legend:**

- City Water Sampling Station
- Water Meter
- Gas Meter
- Existing Trees
- Electric Meter
- & Shrubs To
- Be Preserved:
- Backflow preventer
- City Street Lights
- City Utility Pole
- Hose Bib
- City Electrical Vault
- Gas Vault
- Clean out
- Underground electrical line, abandoned
- [Additional Symbols]
- Overhead electrical line
- Underground gas line
- Underground sewer line
- Underground water line

**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.
- 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 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 Building Permits, Soil Studies, and Structural Details as required by the municipality.
- Contractor and Mason and Subcontractors to attend a preconstruction meeting with JRA representatives and Four Winds Design.
- Contractor to document depth of excavation in proposed bioretention and pervious paver 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.
- Contractor to make sure positive drainage away from all buildings at all times during the demolition and building process.
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**Existing Conditions & Demolition Plan**

For construction

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Bee Zone Markers: 3500 psi concrete, set as second pour on top of walls with (3) pcs 1/2" rebar in wall pour for connection. Treat face with Artex to remove any form marks or striations. Use project standard color admixture, tooled top corners.

SECTION A

SCALE 1" = 4'

Bioretention basin walls: 3500 psi concrete with 1 1/2" rebar 18" OC horizontally and vertically. Treat exposed faces with artex to remove any form marks or striations. Tooled top corners. Waterproof interior of walls, contractor to submit product cut sheet.

Velocity reduced and trash/salt trap: mix 3-5" and 2-3" tan riverstone sizes at 75/25%. Place larger stones over fabric and carefully fill gaps with mortar, apply smaller stones. No mortar shall be visible. This application is intended to be semi-pervious to capture road salt. Contractor to provide mock-up for approval.

SECTION B

SCALE 1" = 4'

Red line denotes existing grade

Notes & Sections

For construction Date: 1-31-23
BIORETENTION BASINS 1-4

**No Scale**

- Bioretention basins walls: 3500 psi concrete with 1/2" rebar, 1" OC, horizontally and vertically. Treat exposed faces with artex to remove any form marks or striations. Tooled top corners. Water proof interior of walls, contractor to submit product cut sheet.
- To down gradient BMP or outlet at proposed curb and gutter for Basin C.
- Velocity reducer and trash trap, see layout. Use 1-3" riverstone stone at inlet and 4-6" at outlet. 2% slope at top, 10% slope along bottom. Install over non-woven fabric.
- Existing asphalt, repair edges after demo as nec.
- Roll down curbs to height of asphalt, see layout.
- #57 clean stone 6" perforated schedule 40 PVC in nylon sock. Note observation port location on layout plan.

**Details**

- For construction
- Date: 1-31-23
- Sheet 4 of 5

**East End Branch Library**
1200 North 25th Street, Richmond, 23223

**CG DETECTABLE WARNING SURFACE RAMP**

**No Scale**

- A 4" schedule 40 PVC overflow pipe with trash trap.
- 2'-6" ponding depth
- Bioretention Medium, see notes
- Existing asphalt, repair edges after demo as nec.
- Roll down curbs to height of asphalt, see layout.
- #57 clean stone
- 6" perforated schedule 40 PVC in nylon sock. Note observation port location on layout plan.

**BIORETENTION BASINS A-C**

**No Scale**

- Bioretention basin walls: 3500 psi concrete with 1/2" rebar, 1" OC, horizontally and vertically. Treat exposed faces with artex to remove any form marks or striations. Tooled top corners. Water proof interior of walls, contractor to submit product cut sheet.
- To down gradient BMP or outlet at proposed curb and gutter for Basin C.
- Velocity reducer and trash trap, see layout. Use 1-3" riverstone stone at inlet and 4-6" at outlet. 2% slope at top, 10% slope along bottom. Install over non-woven fabric.
- Existing asphalt, repair edges after demo as nec.
- Roll down curbs to height of asphalt, see layout.
- #57 clean stone 6" perforated schedule 40 PVC in nylon sock. Note observation port location on layout plan.

**Details**

- For construction
- Date: 1-31-23
- Sheet 4 of 5

**East End Branch Library**
1200 North 25th Street, Richmond, 23223
HOLE TWICE AS LARGE AS ROOT BALL.

Tree Planting Scale: none

- City Water Sampling Station
- Water Meter Existing Trees
- Gas Meter & Shrubs To Be Preserved:
- Electric Meter
- Backflow preventer
- City Street Lights
- City Utility Pole
- Hose Bib
- City Electrical Vault
- Gas Vault
- Clean out
- Proposed Trash Can
- Interpretive Sign
- Proposed Bioretention Basins
- Velocity reducer & trash/silt trap, see detail
- Bee Zone Markers, 10
- Bioretention basin inspection port, connect to underdrain, see notes

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 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 PERVERSIVE PAVING BASES WITH PICTURES AT EACH END. DEPTH DIMENSIONS OF HOLES. THESE PICTURES SHALL BE EMAILED TO FOUR WINDS AS THEY ARE TAKEN. MAINTAIN ONE PICTURE PER HOLES OR VARIOUS DEPTH APPLICATIONS.
- **THE DRAWING SHALL BE PRINTED IN COLOR AND PRINT TO SCALE ON 24" x 36" PAPER. THE SMALLER PRINT USED IN THE POST NOT PERMISSIBLE. A COPY OF THE CITY APPROVED DRAWINGS AND STORMWATER PERMIT SHALL BE KEPT ON SITE AT ALL TIMES.**

IN ADDITION TO THE PLANTINGS SHOWN, 11 MV SHALL BE INSTALLED AS STREET TREES ALONG R STREET. LOCATIONS PLACED IN THE FIELD AT TIME OF INSTALL.

- Irrigation will be installed by Richmond Irrigation, contact Dan Brady for quote to include in contractor’s proposal. See planting plan for layout narrative for consideration in concrete work.
- In addition to the plantings shown, 11 MV shall be installed as street trees along R Street. Locations placed in the field at time of installation.

**PLANTING & IRRIGATION PLAN**

Not for construction