

STATE OF TEXAS

COUNTY OF BEXAR

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**INTERLOCAL AGREEMENT BETWEEN
THE CITY OF SAN ANTONIO, TEXAS, AND
THE SAN ANTONIO RIVER AUTHORITY
FOR SERVICES IMPLEMENTING GREEN
STORMWATER INFRASTRUCTURE
MEASURES IN THE 2017 CAPITAL
IMPROVEMENT PROGRAM BOND**

TASK ORDER NO. 4

Broadway Street Corridor Bond Project (E Houston to IH 35)

Scope:

San Antonio River Authority (River Authority) shall provide design input on potential Green Stormwater Infrastructure (GSI) for the Broadway Street Corridor Bond Project (PROJECT). River Authority shall provide construction inspection services for GSI that is installed as part of the PROJECT. River Authority shall contribute funding for the PROJECT.

Responsibilities:

City shall:

- (1) Identify Transportation and Capital Improvements (TCI) Project Manager or his/her designee as the contact for the PROJECT.
- (2) Provide timely inclusion of the River Authority in the design process to allow for conceptual design and development of cost differential (between traditional development and development incorporating GSI), as well as for design milestones.
- (3) Ensure the scope of the PROJECT includes analysis of the hydrology and drainage network of the project area to determine the placement, type and sizing of GSI methods.
- (4) Ensure PROJECT scope emphasizes GSI solution for the PROJECT.
- (5) Coordinate with the River Authority for mutual agreement on the extents of GSI implementation.
- (6) Invite and allow River Authority to participate in public meetings.
- (7) Adhere to the pre-construction checklist (attached), and coordinate with River Authority staff throughout the construction process and inspection of the GSI features.
- (8) Develop inspection schedules and coordinate with River Authority to schedule all inspections.
- (9) Develop a mutually agreeable operation and maintenance manual for each GSI feature to ensure that appropriate operation and maintenance practices are clearly understood.
- (10) Maintain each GSI feature so it is functional throughout its lifecycle in accordance with the operation and maintenance manual.

River Authority shall:

- (1) Attend design meetings with City’s contact and the design team.
- (2) Provide timely input on potential and recommended GSI.
- (3) Provide technical expertise as needed to fully incorporate GSI options.
- (4) Conduct inspection of the GSI features.
- (5) Upon substantial completion of construction, provide training for up to 10 City maintenance staff if requested.

Duration of Task Order:

This task order has an estimated end date of Nov 2023. This task order may be extended for an additional duration with the mutual written consent of the Parties.

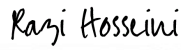
Funding:

GSI components for this task order are mutually agreed to by City and River Authority. River Authority commits to funding 50% of the cost difference, of actual cost of construction, between traditional design and design incorporating GSI, not exceeding \$396,195.37. City is funding the remaining cost.

Amendment:


This task order may be amended with the mutual written consent of the Parties.

EXECUTED THIS 14th DAY OF March, 2022.

DocuSigned by:


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Razi Hosseini, P.E.
 Director, Public Works
 City of San Antonio



R. Trebeza for:
 Derek E. Boese, JD, PMP

General Manager
 San Antonio River Authority



Approved as to form:
 Allison Elder, Director of Legal Services

Pre-Construction Checklist – Permeable Pavement

General Notes

- Protect permeable pavement area from stormwater runoff using silt fences, sandbags, etc.
- Designate staging area for materials. Eg. Gravel, bioretention soil, sand.
- Permeable materials must meet requirements from SARBLIDTM, p. B-39.
- Verify permeable pavement profile meets project load requirements.
- Liner – necessary if non-infiltrating. Required in Edwards Aquifer Recharge Zone.
- If unlined, use geotextile along perimeter sides to prevent soil from laterally entering the voids.
- Optional (case by case): If unlined and not designed to infiltrate, use geotextile along bottom to prevent soil from entering voids. Add geotextile at bottom if lower drainage area in shallow.
- Underdrain – necessary if lined or infiltration rate < 0.5 in/hr
- Underdrain materials, PVC Schedule 40, perforations every 6 inches, min. 4" diameter.
- Underdrain spaced 10' apart for large areas.
- If underdrain is not required, install observation well to monitor drawdown.
- Internal Water Storage – If using IWS, top of IWS must be at least 18 inches below surface.
- If underdrains is not required, minimum depth of subsoil is 12 inches.
- Concrete edge restraints are required around perimeter of permeable area.
- Outlet – orifice at underdrain outlet sized to release water quality volume over 2-5 days.

Material Submissions – submit to CE and/or LA and verified by SARA

- Liner (if necessary)– 30 mil PVC or approved equivalent
- Geotextile
- Underdrain materials
- ASTM C-33 washed sand
- Washed #8 stone
- Washed #57 stone

Inspections

- Full Excavation
- Installation of underdrain
- Installation of bioretention soil
- Final inspection

Call for inspections at least 5 working days before desired date

- | | | |
|--------------------------------------------|----------------------------------------------------------------------------------|--------------|
| <input type="checkbox"/> Amanda Nasto | anasto@sariverauthority.org | 210.302.3676 |
| <input type="checkbox"/> Joshua Spencer | jspencer@sariverauthority.org | 210.302.3237 |
| <input type="checkbox"/> Michelle E. Garza | megarza@sariverauthority.org | 210.302.3265 |
| <input type="checkbox"/> Reuben Bazan | rbazan@sariverauthority.org | 210.365.6547 |

Failure to submit materials or achieve necessary inspections can cause delays in approval of project funding.

Pre-Construction Checklist – Bioretention

General Notes

- Protect bioretention area from stormwater runoff using silt fences, sandbags, etc.
- Designate area for materials. Eg. Gravel, bioretention soil, sand.
- Protect Trees as needed
- Do not compact soils

Material Submissions – submit to CE and/or LA and verified by SARA

- Liner (if necessary)– 30 mil PVC or approved equivalent
- Geotextile
- Underdrain materials
- Bioretention Soil Media – submission with report – In Situ soil will be tested by SARA to verify
- ASTM C-33 washed sand
- Washed #8 stone
- Washed #57 stone
- Mulch – 3 inches of triple shredded hardwood.
- Vegetation – approved by landscape architect of record before planting

Inspections

- Full Excavation
- Installation of underdrain
- Installation of bioretention soil
- Final inspection

Call for inspections at least 5 working days before desired date

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