**AMENDMENT OF SOLICITATION**

**MODIFICATION OF CONTRACT**

<table>
<thead>
<tr>
<th>1. Solicitation No.</th>
<th>2. Contract No.</th>
<th>3a. Addendum No. 1</th>
<th>3b. Modification No.</th>
<th>4. Effective Date of this Action</th>
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<td>12/16/22</td>
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</table>

<table>
<thead>
<tr>
<th>5. Name and Address of Offeror or Contractor</th>
<th>6. For Information Call:</th>
<th>7. Amount of Contract/Order is:</th>
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<td></td>
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<td>Decreased by:</td>
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<tr>
<td></td>
<td>Phone No.: 830-221-4389</td>
<td>New Total:</td>
</tr>
<tr>
<td></td>
<td>Fax No.: 830-608-2112</td>
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</table>

8. **THIS BLOCK APPLIES TO AMENDMENTS OF SOLICITATIONS ONLY:**

The above numbered solicitation is amended as set forth in Block 10 below.

- The date and time specified for receipt of offers IS NOT extended.

**THE DATE AND TIME SPECIFIED FOR RECEIPT OF OFFERS IS CHANGED TO:**

Offerors must acknowledge receipt of this amendment prior to the date and time specified in the solicitation or as amended, by one of the following methods:

1. By completing Blocks 5 and 11 and returning this Addendum in the number of copies specified for the solicitation;
2. By acknowledging receipt of this Addendum on each copy of the bid submitted; or,
3. By separate letter, telegram, or fax referencing the solicitation and addendum.

If by virtue of this Addendum offeror desires to change an offer already submitted, such change may be made by letter, telegram, or fax, provided each such notice makes reference to the solicitation AND this Addendum, and is received prior to the date and time specified.

**NOTICE: NON-RECEIPT OF YOUR OFFER AND THIS ADDENDUM AT THE DESIGNATED PLACE WITHIN THE DATE AND TIMESPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.**

9. **THIS BLOCK APPLIES TO MODIFICATIONS TO CONTRACTS, DELIVERY OR PURCHASE ORDERS ONLY.**

The above numbered Contract, Delivery, or Purchase order is modified as set forth in block 10 below.

- This Change Order is issued in accordance with authority granted by instrument referenced in block 2.
- The instrument in Block 2 is modified to reflect administrative changes.
- This Supplemental Agreement is entered into pursuant to the Authority of:
- Other (Specify type of modification and authority):
- CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ONE ORIGINAL.
- Contractor is not required to sign this document but is requested to acknowledge receipt.

10. **DESCRIPTION OF CHANGES**

This Addendum No. 1 provides the minutes to the Pre-proposal Conference hosted on December 7, 2022 and answers to questions received by the question deadline of December 9, 2022.

Clarifications to the Plans are included and attached.

Except as provided herein, all terms and conditions of the document referenced above remain unchanged and in full force and effect.

11a. SIGNATURE OF OFFEROR OR CONTRACTOR

<table>
<thead>
<tr>
<th>CITY OF NEW BRAUNFELS, TEXAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Barbara Coleman&quot;</td>
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11b. PRINTED NAME AND TITLE

<table>
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<tr>
<th>11c. DATE</th>
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</thead>
<tbody>
<tr>
<td>Barbara Coleman</td>
</tr>
<tr>
<td>Date</td>
</tr>
</tbody>
</table>

Purchasing Manager
A. Announcement of Solicitation: CSP 23-005 New Braunfels Fire Training Complex Site Infrastructure

1. Solicitation Schedule:
   1. Date issued: November 16, 2022
   2. Non-mandatory Pre-Proposal Conference: December 7, 2022 at 10:00 A.M. (Central Time)
      Hosted via zoom:
      Register in advance for this webinar:
      https://us02web.zoom.us/webinar/register/WN_a4clSvXrTcSqxuXBq2SipA
      After registering, you will receive a confirmation email containing information about joining the webinar. The call in Telephone: (833) 926-2300
   3. All questions must be submitted to Barbara Coleman no later than December 9, 2022 by 5:00 P.M. (Central Time).
   4. All proposals are due to New Braunfels City Hall, City Secretary Office - Attention: Purchasing, no later than 3:00 P.M. (Central Time) on January 10, 2022.
   5. Proposals will be read aloud at City Hall and posted on the city website:
      • City of New Braunfels’ website, https://www.nbtexas.org/2694/Solicitations.
   6. Notice of Award: It is the City’s intent to make its recommendation to City Council for approval in January 2023.

B. Introductions (Staff)

1. Barbara Coleman, Purchasing Manager – primary point of contact until the contract is awarded.
   Phone: (830) 221-4389  Email: bcoleman@nbtexas.org
2. Adam Michie, City Project Manager – Project Contact
   Phone: (830) 221-4079  Email: AMichie@nbtexas.org
3. Design Engineer, Brown Reynolds Watford Architects, Inc.

C. Description of Work:

The City is seeking a construction company for the facilities included in the New Braunfels Fire Training Site Infrastructure plans with quality experience in site development, utility and drainage infrastructure construction.

Technical description will be discussed during this meeting.

D. Review of Bidding Procedures

1. Solicitation documents may be obtained at:
   • The BidNet Direct website, https://www.bidnetdirect.com/texas/city-of-new-braunfels
   • The City of New Braunfels’ website, https://www.nbtexas.org/2694/Solicitations

2. Submission: Proposer must follow proposal instructions notated within Sections 1 through 5 of the solicitation documents to provide consistency for the evaluation committee.
   a. Deadline for submittal of Questions and Requests for clarifications will be Dec. 9, 2022 at 5:00 p.m.
b. All proposals are due to New Braunfels City Hall, City Secretary Office - Attention: Purchasing, no later than 3:00 P.M. (Central Time) on January 10, 2023.

c. All proposals must be time stamped by the City Secretary’s Office at the New Braunfels City Hall.

d. Proposals received after the time and date set for submission will be returned, unopened, upon request.

e. Label as follows:

```
Delivery Address                                     Labeled:
Purchasing Department                                 CSP 23-005
City of New Braunfels                                  NB Fire Training Complex Site Infrastructure
550 Landa Street                                      Due: Jan. 10, 2023 – 3pm
New Braunfels, TX 78130
```

E. Required Proposal Documents:

**TAB 1 – Solicitation and Offer Form; completed and signed.**

**TAB 1 – Acknowledgment of Addenda, if applicable.**

**TAB 2 – Cover Letter:** Name and address of the Proposer, as well as a brief description of the firm and its history.

**TAB 3 – Executive Summary:** A brief summary highlighting the most important points of the proposal.

**TAB 4 – Cost Proposal Form** (Exhibit 1A & Exhibit 1B)

**TAB 5 – Qualifications of Proposer** – as required in Section 04.10.C.

**TAB 6 – Vendor Certifications** (Exhibit 4)

**TAB 7 – Plan and Schedule** as required in Section 4.10.C.3 and Vendor Certifications (Exhibit 4)

**TAB 8 – Acceptable Documentation**

- **Bond Form - Proposal Guaranty/Bid Bond** in an amount no less than five percent (5%) of price proposal (Exhibit 2).
- One copy of **Certificate of Insurance** completed and signed (Section 4.17).
- **Conflict of Interest** (Section 4.18.13).
- **Certificate of Interested Parties; Form 1295** (Section 4.18.12).

**TAB 8 – Required information indicated in Drawings, if applicable.**

**Required January 11, 2023** – completed Schedule of Values (Exhibit 1B)

**Note:** To be submitted no later than January 11, 2023 at 3:00 P.M. (CST) via email to Barbara Coleman, Purchasing Manager at BColeman@nbtexas.org

**Required after contract award** – Performance and Payment Bonds (Exhibit 1B).

F. General Information

1. **CONTRACT TIMES:**

   a. Days to Achieve Substantial Completion and Final Payment: The Work will be substantially completed within **120** calendar days after the date when the Contract Times commence to run

   b. Days to completed and ready for final payment within **150** calendar days after the date when the Contract Times commence to run.
c. The substantial completion schedule will be further defined with the final contract.

2. **Liquidated Damages:** $500 for each calendar day that expires after the time specified.

G. Other Instructions

1. **Evaluation Criteria –**

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<th>Percent</th>
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<td>70</td>
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<td>Experience and Qualifications</td>
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<td>10</td>
<td>Plan and Schedule</td>
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<td>Optional 10</td>
<td>Optional Interview</td>
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</table>

2. **Retainage:** (5%)
   - **Bonding & Insurance** – Bid Bond (5%)
   - Performance (100%) Equal to Contract Amount
   - Payment (100%) Equal to Contract Amount
   - Insurance and Liability Coverage – Section 4.17

3. **Prevailing wage rates:** Davis Bacon Wage Rates – Exhibit 3 – Prevailing Wage Schedule
4. **General Contractor Registration with the City:** Section 04.11, 05.23
5. **Anti-Lobbying:** Section 4.18.10

H. **Proposal Form – Exhibit 1A –**

- Line-item proposal is provided in Excel Form with the solicitation.

I. **Technical Discussion – Project Manager and Engineer:**

   **Statement of Work:**
   - Extend road pavement through to neighborhood.
   - Demolition of existing trees and regrading of subgrade.
   - Installation of a landscaped detention / retention pond.
   - Construction of concrete paving and parking lot improvements including wheel stops and striping.
   - Installation of a grate inlet and underground reinforced concrete storm pipe to tie-in to existing storm sewer.
   - Install privacy and security fencing and motorized gates.
   - Run utilities to site and to areas of future building locations.
   - Contractor shall coordinate all work, inspections, and approvals with the City of New Braunfels.
   - Project shall comply with the United States Occupational Safety & Health Administration regulations.
   - Methods & Means of construction shall be compliant with all applicable Federal, State, and Local regulations. This includes obtaining all necessary permits and inspections.
• Contractor to adhere to City of New Braunfels construction administration procedures.
• Maintain and submit all project records such as record drawings, project manuals, and warranties for approval by the City of New Braunfels.

J. Questions and Answers:

1. What size casing should be quoted for the sanitary bore?
   The answer to this question is Item 10 under clarifications to the Plans included in this addendum 1.

2. What is the Project Cost?
   The Estimated Project Costs is $5.2M

3. How will the city support Generator lead times?
   The proposers should identify long lead items and include strategies to mitigate delays in their submittal.
## Attendee Report

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<tr>
<td>Yes</td>
<td>John Kovar</td>
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<td><a href="mailto:johnk@dwilsonconstruction.com">johnk@dwilsonconstruction.com</a></td>
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<td>Jose Dominguez</td>
<td>Jose</td>
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<td><a href="mailto:j.dominguez@dsconcretecontractors.net">j.dominguez@dsconcretecontractors.net</a></td>
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<td>Raul Scott</td>
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<td><a href="mailto:rauljr@apgc.pro">rauljr@apgc.pro</a></td>
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<tr>
<td>No</td>
<td>Mike</td>
<td>Mike</td>
<td>Guy</td>
<td><a href="mailto:mguy@dntconstruction.com">mguy@dntconstruction.com</a></td>
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</table>
ADDENDUM NO. 01

PROJECT: NEW BRAUNFELS FIRE TRAINING SITE INFRASTRUCTURE
LOCATION: NEW BRAUNFELS, TEXAS
PROJECT NO: 219065.00
DATE: DECEMBER 14, 2022

The Construction Documents on the above referenced project, dated 11/01/2022, shall be revised as follows:

DRAWINGS

Item No. 1 (RE: Sheet AS1.5, Detail 2) – Architectural Site Details
A. The 8 bollards on the west side of the propane tank have been revised to be removable. Product listed as Postguard 6” x 36” Removable Steel Bollard RMB636Y EMB6x12

Item No. 2 (RE: Sheet C1.0) – Site Plan
A. The water line loop around the training facility was expanded to accommodate the future training facility.
B. One of the 8”x6” tee connections to the 8” loop was removed and relocated to branch off of the 6” fire water line stub out running to the building instead.
C. The easement was also adjusted to follow the new routing of the water line.

Item No. 3 (RE: Sheet C4.0) – Utility Plan
A. The water line loop around the training facility was expanded to accommodate the future training facility.
B. One of the 8”x6” tee connections to the 8” loop was removed and relocated to branch off of the 6” fire water line stub out running to the building instead.
C. The easement was also adjusted to follow the new routing of the water line.
D. The irrigation meter was reduced to a 1.5” meter, and callouts for valves were added to the water lines for clarity.

Item No. 4 (RE: Sheet C7.0) – Water Plan
A. The water line loop around the training facility was expanded to accommodate the future training facility.
B. One of the 8”x6” tee connections to the 8” loop was removed and relocated to branch off of the 6” fire water line stub out running to the building instead.
C. The easement was also adjusted to follow the new routing of the water line.
D. The irrigation meter was reduced to a 1.5” meter, and callouts for valves were added to the water lines for clarity.

Item No. 5 (RE: Sheet C7.1) – Water Profile
A. Callouts for valves were added to the water lines for clarity.
Item No. 6  (RE: Sheet L1.3, Legend) – Irrigation Plan and Details
B. The Irrigation Manufacturer has been changed to state “Manufacturer must be acceptable per the New Braunfels Parks Specifications” see attached.

Item No. 7  (RE: Sheet MEP1.0) – MEP Site Plan
A. An underground communications conduit has been added to run from the modular building location and connecting the owner provided cameras to be mounted at the light poles on the east and west sides of the burn building locations.

Item No. 8  (RE: Sheet MEP2.0) – MEP Site Plan – Lift Station
A. New Generator has been shifted over to the West of the existing generator for the NBU facility.

CLARIFICATIONS

Item No. 9  The generator shown on sheet MEP2.0 is a new generator that will serve the lift station for the detention pond at the east end of the site. This generator does not replace or tie into the existing generator.

Item No. 10  The casing required for the sanitary bore shown on sheet C6.0, Sanitary Sewer Plan should follow the AWWA recommendation of a 14” casing for a 6” pipe. The 14” casing should span from the pit to 15’ before to the proposed public sanitary manhole. Refer to Casing Detail on sheet C10.1

Attachments: AS1.5, C1.0, C4.0, C7.0, C7.1, L1.3, MEP1.0, MEP2.0
NEW BRAUNFELS PARKS DEPARTMENT IRRIGATION COMPONENTS SPECS

END OF ADDENDUM NO. 01
6" CONCRETE SLAB ON GRADE:
W/ #4 BARS 12" o.c. EACH WAY:
(SIZE TO BE DETERMINED)

TYPICAL 12"W X 24"D CONCRETE PERIMETER FOOTING W/ 2- #4 BARS

PROPANE TANK

GENERAL NOTES

1. 2,000 GALLON PROPANE TANK TO BE PROVIDED AND
INSTALLED BY GENERAL CONTRACTOR, INCLUDING ALL
REQUIRED AGENCY PERMITS AND APPROVALS.

2. CONTRACTOR TO CONFIRM PHYSICAL TANK SIZE WITH
PROVIDER PRIOR TO PLACEMENT OF SHOWN UTILITY PAD.

3. ONLY FULL-PORT SHUT-OFF VALVES AT POINTS OF
TERMINATION FOR PROPANE LINES SHALL BE USED. SET
SHUT-OFF VALVES INSIDE THE AREA OF UTILITY PAD.

4. CONCRETE PAD SHALL BE SLOPED TO DRAIN AT A
MINIMUM OF 1/4" PER LINEAR FOOT. FINISHED SURFACE OF
PAD TO BE 2" ABOVE ADJACENT GRADE: REFER TO CIVIL.

5. INSTALLATION OF UNDERGROUND POLYETHYLENE SUPPLY
LINES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH
THE CURRENT EDITIONS OF THE IBC AND NFPA.

6. CONTRACTOR SHALL PROVIDE FINAL CONNECTION AND
TESTING FROM ABOVE GROUND SHUT-OFF VALVES TO TANK
PORTS UPON PLACEMENT OF TANK. PIPING SHALL BE AS
FOLLOWS:

A. FOR VAPOR LINES (TOP OF TANK) 3" DIAMETER SUPPLY.
B. FOR LIQUID LINES (BOTTOM OF TANK) 1" DIAMETER
SUPPLY.

1-3" UNDERGROUND PROPANE VAPOR LINE TO EACH BUILDING'S POINT OF
CONNECTION. (20 psi)

FULL-PORT SHUT-OFF VALVE @ 12" ABOVE
FIN. SURFACE: TYP - 4

TYPICAL PROTECTIVE METAL BOLLARD:
REFER TO DETAIL

1-1" PROPANE LIQUID LINE FOR FUTURE USE: TERMINATE AT SHUT-OFF VALVE

1-3" PROPANE VAPOR LINE FOR FUTURE USE (20 psi): TERMINATE AT SHUT-OFF VALVE

REMOVABLE BOLLARD:
POSTGUARD 6" X 36" REMOVABLE STEEL
BOLLARD RMB636Y EMB6X12
QTY: 8

DRIVING COURSE SKILLS
**WATER AND SEWER SUMMARY TABLE**

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<th>ELEMENT</th>
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<tr>
<td>TEE</td>
<td>1 EA</td>
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<td>WATER LINE STUBOUT (DOUBLE WRENCH)</td>
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<td>FIRE HYDRANT ASSEMBLY (6&quot; GATE VALVE)</td>
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<td>WATER METER</td>
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<td>FIRE SUPPRESSION LINE (DUCTILE IRON)</td>
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<td>IRIGATION LINE (6&quot;) X 6&quot; TEE</td>
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<tr>
<td>PVC DURABLE PIPE</td>
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**Water and Sewer**

Water is a precious commodity in the State of Texas and New Braunfels Utilities (NBU) is committed to providing safe and reliable water services to its customers. In order to maintain the integrity of the water distribution system, certain installations and modifications are necessary. This summary table provides an overview of the elements that will be included in the project.

1. **Connection to EX. I**
   - 1 EA: 1 Element

2. **Tee**
   - 1 EA: 1 Element

3. **Tee**
   - 1 EA: 1 Element

4. **Tee**
   - 1 EA: 1 Element

5. **Water Line Stubout (Double Wrench)**
   - 1 EA: 1 Element

6. **Fire Hydrant Assembly (6" Gate Valve)**
   - 1 EA: 1 Element

7. **Water Meter**
   - 1 EA: 1 Element

8. **Fire Suppression Line (Ductile Iron)**
   - 1 EA: 1 Element

9. **Irrigation Line (6") X 6" TEE**
   - 1 EA: 1 Element

10. **45 Degree Bend**
    - 1 EA: 1 Element

11. **45 Degree Bend**
    - 1 EA: 1 Element

12. **30.5 Degree Bend**
    - 1 EA: 1 Element

13. **11.25 Degree Bend**
    - 1 EA: 1 Element

14. **PVC**
    - 4 EA: 1432 LF

15. **Ductile Iron Pipe**
    - 4 EA: 2461 LF

16. **PVC Durable Pipe**
    - 4 EA: 2461 LF

### Contractual Requirements

- **Engineer of Record**
  - The Engineer of Record acknowledges that the point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

- **City Plumbing Codes**
  - Compliance with all City Plumbing Codes or other applicable codes is required. No valves, hydrants, cleanouts etc. shall be constructed within curbs, sidewalks, or driveways.

- **Geotechnical Engineering**
  - The ability of the compacting operation and equipment used to meet the required density must be ensured. Each lift shall be compacted in accordance with the required density.

- **Safety Protection**
  - The proper trench excavation safety protection that comply with as a minimum, OSHA standards for trench excavation. Specifically, contractor and/or contractor's independently retained employee or structural engineer shall provide adequate trench excavation safety protection that comply with OSHA standards for the contractor's implementation of these systems, programs and/or procedures shall provide for the presence and activities of individuals working in and around trench excavations.

- **Valve Installation**
  - The point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

- **Structural Integrity**
  - The structural integrity of all areas shall be maintained with structural glues and adhesives. Any structural work shall be completed in accordance with structural engineering requirements.

- **Geotechnical Engineering**
  - The proper trench excavation safety protection that comply with as a minimum, OSHA standards for the contractor's implementation of these systems, programs and/or procedures shall provide for the presence and activities of individuals working in and around trench excavations.

- **Valve Installation**
  - The point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

### Additional Notes

- **Permits**
  - All projects shall comply with the applicable permits required by local, state, and federal agencies.

- **Quality Control**
  - Quality control and assurance procedures shall be followed to ensure the long-term reliability and durability of the water distribution system.

- **Field Inspection**
  - Field inspection shall be performed regularly to ensure compliance with the contract documents and specifications.

- **Record Keeping**
  - Detailed records shall be maintained for all materials, labor, and equipment used in the project.

- **Safety Measures**
  - All personnel shall wear personal protective equipment (PPE) as required by applicable regulations.

- **Environmental Considerations**
  - The project shall comply with all applicable environmental regulations and permits.

### Contact Information

- **New Braunfels Utilities**
  - 979.694.1791
  - www.gessnerengineering.com

- **Gessner Engineering**
  - 7525 2700 EARL RUDDER FWY SOUTH
  - NEW BRAUNFELS, TX 78130

### Site Information

- **Location**
  - NEW BRAUNFELS, TX 78130
  - PROP. 6" CONCRETE PAVEMENT
  - PROP. BURN

### Legal Considerations

- **Contractual Omissions**
  - Any omissions or省略s in the contract documents may result in additional costs to the contractor.

- **Liability Limitations**
  - The contractor shall be held harmless for any injuries or damages resulting from their own negligence or the negligence of their subcontractors.

- **Environmental Compliance**
  - All projects shall comply with all applicable environmental regulations and permits.

- **Safety Compliance**
  - All personnel shall wear personal protective equipment (PPE) as required by applicable regulations.

### Additional Notes

- **Valve Installation**
  - The point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

- **Geotechnical Engineering**
  - The proper trench excavation safety protection that comply with as a minimum, OSHA standards for the contractor's implementation of these systems, programs and/or procedures shall provide for the presence and activities of individuals working in and around trench excavations.

- **Valve Installation**
  - The point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

### Construction Site

- **Location**
  - NEW BRAUNFELS, TX 78130
  - PROP. 6" CONCRETE PAVEMENT
  - PROP. BURN

### General Notes

- **Site Security**
  - Access to the construction site shall be restricted to authorized personnel only.

- **Noise Abatement**
  - Noise abatement measures shall be implemented to minimize disturbance to the surrounding community.

- **Site Clean-Up**
  - The contractor shall be responsible for cleaning up the site to the satisfaction of the owner's representative.

### Site Safety

- **Safety Training**
  - All personnel shall complete safety training as required by applicable regulations.

- **First Aid**
  - First aid kits shall be available on site, and all personnel shall be trained in basic first aid procedures.

- **Emergency Procedures**
  - Emergency procedures shall be established and communicated to all personnel on site.

### Site Management

- **Site Security**
  - Access to the construction site shall be restricted to authorized personnel only.

- **Noise Abatement**
  - Noise abatement measures shall be implemented to minimize disturbance to the surrounding community.

- **Site Clean-Up**
  - The contractor shall be responsible for cleaning up the site to the satisfaction of the owner's representative.

### Legal Considerations

- **Contractual Omissions**
  - Any omissions or省略s in the contract documents may result in additional costs to the contractor.

- **Liability Limitations**
  - The contractor shall be held harmless for any injuries or damages resulting from their own negligence or the negligence of their subcontractors.

- **Environmental Compliance**
  - All projects shall comply with all applicable environmental regulations and permits.

- **Safety Compliance**
  - All personnel shall wear personal protective equipment (PPE) as required by applicable regulations.

### Additional Notes

- **Valve Installation**
  - The point of delivery for an NBU system is the main water meter, unless otherwise specified in the contract documents.

- **Geotechnical Engineering**
  - The proper trench excavation safety protection that comply with as a minimum, OSHA standards for the contractor's implementation of these systems, programs and/or procedures shall provide for the presence and activities of individuals working in and around trench excavations.

- **Valve Installation**
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### Construction Site

- **Location**
  - NEW BRAUNFELS, TX 78130
  - PROP. 6" CONCRETE PAVEMENT
  - PROP. BURN

### General Notes

- **Site Security**
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- **Noise Abatement**
  - Noise abatement measures shall be implemented to minimize disturbance to the surrounding community.

- **Site Clean-Up**
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New Braunfels Parks Department Irrigation Components to be used on all projects installing any irrigation

- **Controller**
  - System under 25 zones
    - Baseline 1000 controller
    - Ethernet preferred, 3G if ethernet not available
  - System over 25 zones
    - Baseline 3200
    - Ethernet preferred, 3G if ethernet not available
- Brass ball valve isolation valves (no manufacture preference)
- Lightning protection BL-LA01 surge suppressor required, installed per Baseline Specs
- Bicoder BL501,502 or 504 depending
- Baseline BL-5315B Bi-sensor soil moisture sensor
- Baseline Stainless steel free standing controller pedestal (if not wall mounted)
- 3M-DBR/Y-6 splice kit 3M brand only, no substitutions
- Baseline BHM series Hydrometer & Master Valve Normally open
  - Flowmeter volume size to match water meter GPM
- NDS purple top Valve boxes 11x17 for control valves
- NDS 9” round for all wire Splices
- Hunter Mini-Click Rain sensor
- NO BURIED WIRE SPLICES

**Control Valves, Heads and Drip**

- Hunter ICV series valves
- Hunter Pro Spray Pros-06-r-cv (reclaimed designation with check valve)
- Hunter PGP-06-R-CV (reclaimed designation with check valve)
- Hunter I-25-06-R (reclaimed designation)
- Hunter I-20-06-R (reclaimed designation)
- Hunter ICZ drip control zone kits with stainless filter
- Rainbird XFS-P drip tubing (reclaimed designation)
- Hunter Accu-Sync AS-ADJ adjustable pressure regulator installed on valves
- Hunter HSJ swing joints or equivalent for all rotor heads
- Hunter SJ swing joints or equivalent for all pop up sprays
- Rain Bird R-Van nozzles to be used in place of Spray nozzles

**All sizes of PVC Pipe**

- No manufacturer preference must be Reclaimed designation.
Backflow

- Backflow flow to match water meter GPM
- Watts 957 series RPZ when 2.5” or above
- Watts 009 series RPZ when below 2.5”
- Guardshack brand backflow cage
- Frost Guard brand frost protection bag

Recommendations

- Multiple soil moisture sensor to be installed, minimum one in each area requiring different moisture, multiple depending on property size.
- All heads to be installed on swing joint with minimum of 12’ from hardscape
- Sub surface drip to be installed in place of pop-ups in the flowing areas:
  - all turf areas with less than 8’ width
  - greenbelts
  - parking lot islands
  - areas of conflict with hardscape or vehicles
  - at Park staff discretion