

CITY OF PORTSMOUTH, NH

MADBURY WTP UPGRADE AND
BELLAMY RESERVOIR IMPROVEMENTS



RESPONSE TO BIDDERS QUESTIONS No. 3

AND
ADDENDUM No. 4

2/26/09

This Response to Bidders' Questions Addendum shall be part of the Contract Documents as provided in the Instructions to Bidders of the referenced project. The following additions to and modifications of the Contract Documents shall be included in, and become a part of any Contract that may be executed for construction of this project. Bidders are instructed to take the following into account in rendering a Bid for the Work.

Please acknowledge receipt of this addendum within your bid, failure to do so may subject a bidder to disqualification.

Response to Bidder Questions:

- 4-1. Lower Gallery Level Plan, on Drawing S-2, indicates that the three outside walls of Stairwell #1 are all 24" wide. The plan view, shown on Drawing S-4, of this same Stairwell, indicates that two of the walls are 24" wide while one of them switches from a 24" wall to an 18" wall at that level. Section N/S-19 shows, by scale, that the two end walls are 18" all the way from Elev. 52.00 at the bottom to Elev. 86.00 at the top. Please clarify.

The dimensions shown on Drawings S-2 and S-4 are correct. In Sketch S19-SK-01, Section N/S-19 has been revised to reflect this. Also the reinforcement on Section N/S-19 has been clarified. One other minor clarification to Section G/S-19 is also included on this sketch. See Addendum 4, Item 4-7.

- 4-2. Lower Gallery Level Plan, on Drawing S-1, indicates the end wall of the Gallery and Filters to be 24" wide. Section A/S-12, which is mislabeled at this level as A/S-11, shows this wall to be 18" wide by scale. Section J/S-18 through this same area is 16" wide by scale. Which is correct?

The end wall of Gallery and Filters at column Line F should be bid as 24" thick. Also, see Addendum 4, Item 4-6.

- 4-3. Upper Gallery Level Plan, on Drawing S-3, shows the perimeter footings as 37" wide. Section B/S-13, through this region, shows these footings to be 42" wide

by scale. The walls on these footings are detailed as 13” wide in Plan view, but are shown as 16” and 19” wide, by scale, in Section B/S-13. Please clarify.

Footing width is 42”, wall thickness is 18”

- 4-4. In reviewing the specification for concrete (03300) specific to portland cement to be used in ready mix concrete there is a limit on the following 2 chemical constituents; tricalcium aluminate or C3A at 4% max and tetracalcium aluminoferrite or C4AF at 10% max. Of the available cements in the New England region none will meet this requirement. C3A is typically 7% and C4AF typically 12%. Is this a critical requirement for this project? Also, if slag was used at a 35-40% replacement for portland cement as allowed in the spec, would this requirement be relaxed ?

See Addendum 4, Item 4-3.

- 4-5. Section C/S-14 indicates beams at Column lines “2” and “6” much wider and deeper than the 18” wide by 24” deep dimensions that are shown in the Concrete Beam Schedule on Drawing S-22. Please clarify.

The values provided in the beam schedule are correct. Beam schedules shall be used for bidding purposes.

- 4-6. Section C/S-14 indicates beams at Column lines “3” and “5.1” that scale 36” deep as compared to the 24” deep posted depth given in the Concrete Beam Schedule shown on Drawing S-22. Please clarify.

The values provided in the beam schedule are correct. Beam schedules shall be used for bidding purposes.

- 4-7. We again request that the lists of proposed subcontractors and suppliers be required after Bids are opened rather than at the Bid submission deadline as is specified now.

The bid documents have been updated to allow for listing proposed subcontractors and suppliers after bids are opened. See Addendum 4, Items 4-1 and 4-2.

- 4-8. Reference drawing M-11, Will expansion joints and roller type hangers be required on the 18” and 20” water headers?

Expansion joints and roller type hangers will not be required on the referenced headers.

- 4-9. Door No. 101-1 at the P.A.C. Rm. Is indicated as a double swinging door on the door schedule, and a roll-up door on A-6. Please clarify

Door 101 is a double door, see Addendum 3, Item 3-36

- 4-10. Please clarify which concrete surfaces will be required to be coated per spec sections 07140 and 07160.

Concrete coatings shall be provided as shown on the architectural drawings and as modified in Addendum 3, Item 3-31.

- 4-11. Ductile Iron Fittings are specified in section 15060, para. D.1 as being AWWA C-110, these are a full body, more expensive fitting. Would the more current standard AWWA C-153 compact fitting be acceptable.

C-110 fittings are required, also see Addendum 2, Question 3-33.

- 4-12. Ref drawing A-27, Wall types. Will “ground” block be required on both sides of interior masonry walls?

Ground block will be required on both sides of interior masonry walls as specified in Section 04200.

- 4-13. Please clarify the structural backfill materials required to be placed under and alongside structures. Will all backfill materials be required to be imported from off site?

Structural fill is required under and alongside structures. As indicated in Specification 02229 if excavated materials meet the requirements for the fill material(s), they may be used.

- 4-14. Drawing BR-S-3 Section B what does “W.P” stand for (also on M-4 detail 3) no abbreviation in legend

W.P. stands for Work Point

- 4-15. Drawing S-3 Platform Plan, Section D cuts thru 6” interior support, yet detail shows 8 inch support with diagonal angle. Do both need similar angle bracing/sizing? The interior support does not show a diagonal angle in either section A or C.

The section D cut in plan is shown in the wrong place; the diagonal bracing configuration is required on the north and south end of the platform only. The interior 6” supports as shown in section C do not require this bracing.

- 4-16. Drawing S-3 platform and S-4 bridge. A toe rail is not apparent. (but is required by Code). They suggested to change the 1x1/4 bar on Section A, BR4 to a 5" or whatever height needed for rail. Would also need to change platform. (I believe he is correct on toe rail. suggest addressing this one whether or not we actually get a question on it)

Toe boards are specified for railings in specification Section 05520 – Handrails and Railings. Follow Architectural contract drawing A-32 Detail 18 as a guide and use an aluminum toe-board since the railing is aluminum. Also, note that the toe board should be welded to the inside face of the handrails.

Modifications to Contract Documents:

Procurement and Contracting Requirements:

Item 4-1. Specification Section 00200 – Instruction to Bidders

A. Article 15.01

1. Delete Line “A) List of Proposed Subcontractors” and replace with “A) Not Used”
2. Delete Line “B) List of Proposed Suppliers” and replace with “B) Not Used”

Item 4-2. Specification Section 00410 – Bid Form

- A. Delete this section and replace with the attached Section 00410 – Bid Form

Technical Specifications

Item 4-3. Specification Section 03300 – Cast in Place Concrete

- A. Delete Article 2.01.A.4. and replace with the following:

“4) The proposed Portland Cement shall not contain more than 4% tricalcium aluminate and more than 10% tetracalcium aluminoferrite. If an appropriate amount of fly ash (Article 2.02) or ground granulated blast furnace slag (Article 2.03) is used in the mix design, the allowable amount of tricalcium aluminate may be increased to 8%, and the allowable amount of tetracalcium aluminoferrite may be increased to 12%.”

Item 4-4. Specification Section 13220 – Filter Underdrains

- A. Paragraph 2.03.A.8 – Delete the sentence “Ultrasonic welding shall not be used in the manufacturing process.”

Item 4-5. Specification Section 15060 – Yard Piping

- A. Section 3.01.J.1.e – Delete the phrase “Connecticut State Building Code” and replace with “2006 International Building Code”

Item 4-6. Specification Section 15060 – Yard Piping

- A. Section 3.01.J.1.e – Delete the phrase “Connecticut State Building Code” and replace with “2006 International Building Code”

Drawings

Item 4-7. Drawing S-1

- A. Delete Reference to Section A/S-11 and replace with Section A/S-12.

Item 4-8. Drawing S-19

- A. Delete section N and replace with the updated section N provided on Sketch S19-SK-01.

Item 4-9. Drawing I-2

- A. Delete Drawing I-2 in its entirety and replace with the attached Sketch I2-SK-01.

Item 4-10. Drawings E-6, E-42, E-43 & E-44:

- A. In the bill of material schedules change all specified hardware from “15KV class” to “34.5KV class”
- B. In General Note #1 & #2 change the word “15KV” to “34.5KV” and change the #4/0 bare copper to #2/0 bare copper.
- C. In General Note #2 change the word “15KV” to “34.5KV” and change the “#4/0 AWG bare copper” to “#2/0 AWG bare copper”.

Item 4-11. Drawing BR-S-4

- A. Note 4 – Delete “LL = 150 #/FT²” and replace with “LL = 100 #/FT²”

Addenda

Item 4-12. Addendum 3, Item 3-47.

- A. Delete key note #1 provided on the PLC Schedule attached to Addendum 3 and replace with the following;

“Change Fixture Type EX to type EB throughout the drawings. Change Fixture Type E& EA to Type EC throughout the drawings.”

Attachments:

Specification Section 00410 – Bid Form - revised
Sketch S19-SK-01
Sketch I2-SK-01

SECTION 00410

BID FORM

CITY OF PORTSMOUTH, NH
MADBURY WATER TREATMENT PLANT UPGRADE
AND
BELLAMY RESERVOIR IMPROVEMENTS

BID PROPOSAL # 1077
FEBRUARY 2009

Revised by Addendum No. 4

TABLE OF ARTICLES

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ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

*FINANCE/PURCHASING DEPARTMENT
CITY HALL
1 JUNKINS AVENUE
PORTSMOUTH, NH 03801
ATTN: PURCHASING CLERK*

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER'S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

| <u>Addendum No.</u> | <u>Addendum Date</u> |
|---------------------|----------------------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work.

D. Bidder has carefully studied all: reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) which have been identified in GC-4.02 or SC-4.02.

E. Bidder has obtained and carefully studied (or accepts the consequences for not doing so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

F. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
- I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.
- J. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.
- K. Bidder will submit written evidence of its authority to do business in the state where the Project is located not later than the date of its execution of the Agreement.

ARTICLE 4 – FURTHER REPRESENTATIONS

4.01 Bidder further represents that:

- A. this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

A. Lump Sum Bid Price

A lump sum bid price for all items shall be provided. The basis for bid shall be the Total Lump Sum Bid price for all Items, including Unit Price work. See Specification 01025 – Measurement and Payment for a description of the work included in Item I and II. The Owner reserves the right to award only Item I or Item II to the successful bidder based on available funding for the Project.

| | | |
|--|---------|------------|
| Lump Sum Bid Price for Item I only: | | \$ _____ |
| (Lump Sum Bid Price for Item I to include Item I Unit Price Total from 5.01.B) | (words) | (numerals) |
| Lump Sum Bid Price for Item II only | | \$ _____ |
| (Lump Sum Bid Price for Item II to include Item II Unit Price Total from 5.01.B) | (words) | (numerals) |
| Total Lump Sum Combined Bid Price for Items I and II: | | \$ _____ |
| (Total Lump Sum Combined Bid Price does not have to equal the sum of Items I and II) | (words) | (numerals) |

All specified cash allowances and unit price work are included in the price(s) set forth above and have been computed in accordance with Paragraph 11.02 of the General Conditions.

B. Unit Price Bid Price

| Item No. | Description | Unit | Estimated Quantity | Bid Unit Price | Bid Price | |
|---|--|--------------|--------------------|------------------|------------|----------|
| Item I Unit Prices for Work at Madbury Water Treatment Plant | | | | | | |
| 1-1 | Additional Soil Excavation (See Specification 02220) | CY | 50 | \$ _____ | \$ _____ | |
| 1-2 | Additional Rock Excavation (See Specification 02224) | CY | 2 | \$ _____ | \$ _____ | |
| 1-3 | Additional Structural Fill (See Specification 02229, 2.01.B.3) | CY | 10 | \$ _____ | \$ _____ | |
| 1-4 | Additional Common Fill (See Specification 02229, 2.01.B.5) | CY | 10 | \$ _____ | \$ _____ | |
| 1-5 | Additional Reinforcing Steel (See Specification 03200) | Ton | 0.5 | \$ _____ | \$ _____ | |
| 1-6 | Additional Class A1 Concrete (See Specification 03300) | CY | 10 | \$ _____ | \$ _____ | |
| 1-7 | Additional Control System Programming (See Specification 17000, 3.03) | Hours | 80 | \$ _____ | \$ _____ | |
| 1-8 | Sludge Dewatering and Hauling (See Specification 01025, 1.06.B.1) | Mobilization | each | 3 | \$ _____ | \$ _____ |
| | | Dewatering | Dry Ton | 660 | \$ _____ | \$ _____ |
| | | Hauling | Wet Ton | 5400 | \$ _____ | \$ _____ |
| Sum of Mobilization, Dewatering and Hauling: | | | | | | |
| 1-9 | Utility Charges (See Specification 16421, 1.06.B.2) | Allowance | N/A | <i>Allowance</i> | \$ 100,000 | |
| 1-10 | Repair of Freshet Road | Reclamation | SY | 8,000 | \$ _____ | \$ _____ |
| | | Paving | SY | 8,000 | \$ _____ | \$ _____ |
| Total of Item I Bid Prices for Item I Unit Prices (Include in Item I Bid Price and Combined Bid Price in 5.01.A) | | | | | | |
| _____ | | | | | \$ _____ | |
| (words) | | | | | | |

| Item II Unit Prices for Work at Bellamy Reservoir | | | | | |
|---|--|----|-----|----------|----------|
| 2-1 | Underwater Excavation and Disposal, Sediment | CY | 100 | \$ _____ | \$ _____ |
| 2-2 | Underwater Excavation and Disposal, Rock | CY | 1 | \$ _____ | \$ _____ |
| 2-3 | Provide Dam Repair - Crack Injection | LF | 50 | \$ _____ | \$ _____ |
| 2-4 | Provide Dam Repair - Spall Repair | CF | 45 | \$ _____ | \$ _____ |
| Total of Item II Bid Prices for Item II Unit Prices (Include in Item II Bid Price and Combined Bid Price in 5.01.A): | | | | | |
| _____ | | | | | \$ _____ |
| (words) | | | | | |

Unit Prices have been computed in accordance with Paragraph 11.03.B of the General Conditions.

Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities, determined as provided in the Contract Documents.

C. Bid Alternates

Lump sum bid prices shall be provided for the following deduct Alternates, as detailed in Specification 01025 – Measurement and Payment. Alternate prices shall include all labor, materials and overhead and profit to complete the work described. If a bidder determines a deduct Alternate as described will not result in a decrease to the Contract amount, the bidder shall enter ‘NO DEDUCT’ as the bid price. If a bidder determines an Add Alternate as described will not result in an increase to the Contract amount, the bidder shall enter ‘NO ADDER’ as the bid price. Bid alternates may or may not be accepted by the Owner. Alternates are listed in order of priority, with Alternate A having the highest priority

| | | |
|--|---------------------|------------------------|
| Alternate A – Delete Construction of Residual Drying Beds | | |
| <i>Deduct</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate B – Delete Reservoir Aeration System | | |
| <i>Deduct</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate C – Furnish and Install Carbon Steel Piping in lieu of Stainless Steel Piping | | |
| <i>Deduct</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate D – Mill and Pavement Overlay for Existing Roadways | | |
| <i>Add</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate E – Delete Reservoir Flow Directing Curtain | | |
| <i>Deduct</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate F – Buy American Requirement | | |
| <i>Add</i> | \$ _____ (words) | \$ _____ (numerals) |
| Alternate G – Wage Rate Requirement | | |
| <i>Add</i> | \$ _____ (words) | \$ _____ (numerals) |

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 14.07.B of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are attached to and made a condition of this Bid:

- A. Required Bid security in the form of a Bid Bond conforming to the requirements of Specification Section 00430.
- ~~B. List of Proposed Subcontractors~~
- ~~C. List of Proposed Suppliers~~
- D. Required Bidder Qualification Statement with Supporting Data conforming to Section 00435 – Bidders Qualification Statement
- E. Affidavit of Non-Collusion (Section 00420)

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

9.01 This Bid submitted by:

If Bidder is:

An Individual

Name (typed or printed): _____

By: _____ (SEAL)
(Individual's signature)

Doing business as: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner -- attach evidence of authority to sign)

Name (typed or printed): _____

A Corporation

Corporation Name: _____ (SEAL)

State of Incorporation: _____

Type (General Business, Professional, Service, Limited Liability): _____

By: _____

(Signature -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(CORPORATE SEAL)

Attest _____

Date of Authorization to do business in NEW HAMPSHIRE is ____/____/____.

A Joint Venture

Name of Joint Venture: _____

First Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of first joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

Second Joint Venturer Name: _____ (SEAL)

By: _____

(Signature of second joint venture partner -- attach evidence of authority to sign)

Name (typed or printed): _____

Title: _____

(Each joint venturer must sign. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.)

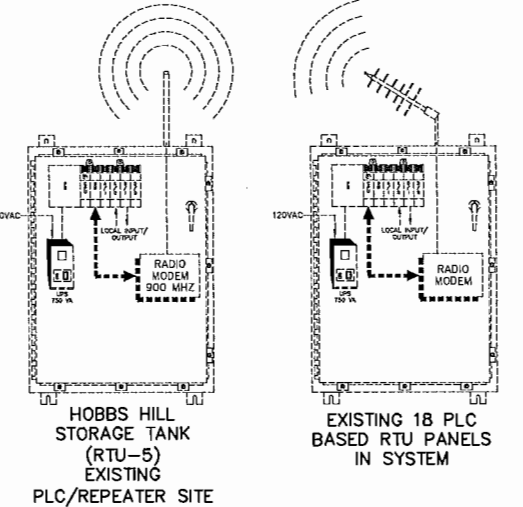
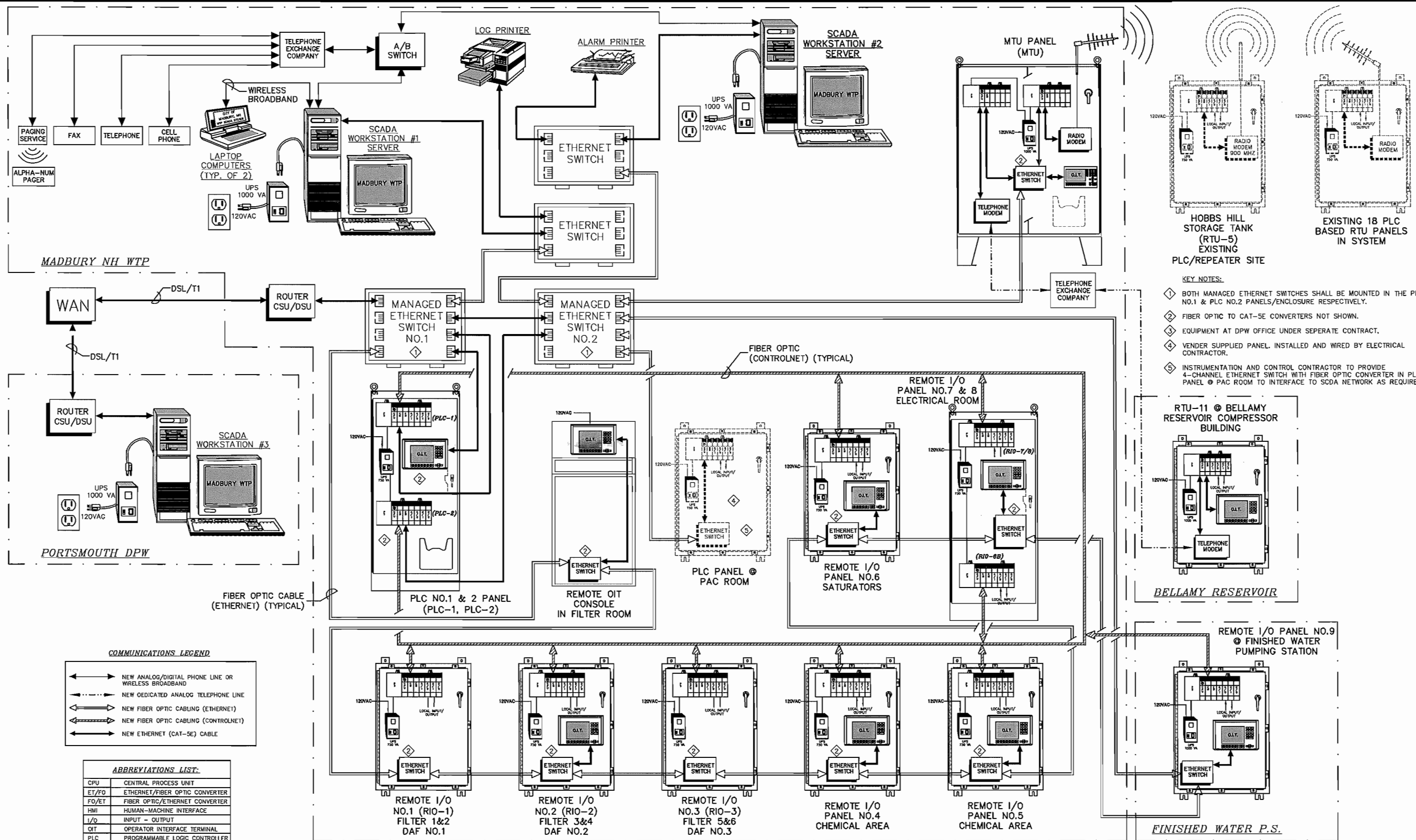
Bidder's Business Address _____

Phone No. _____ Fax No. _____

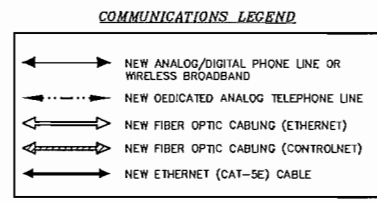
SUBMITTED on _____, 20_____.

State Contractor License No. _____. (If applicable)

NO TEXT ON THIS PAGE



- KEY NOTES:**
- ◆ BOTH MANAGED ETHERNET SWITCHES SHALL BE MOUNTED IN THE PLC NO.1 & PLC NO.2 PANELS/ENCLOSURE RESPECTIVELY.
 - ◆ FIBER OPTIC TO CAT-5E CONVERTERS NOT SHOWN.
 - ◆ EQUIPMENT AT DPW OFFICE UNDER SEPERATE CONTRACT.
 - ◆ VENDER SUPPLIED PANEL, INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR.
 - ◆ INSTRUMENTATION AND CONTROL CONTRACTOR TO PROVIDE 4-CHANNEL ETHERNET SWITCH WITH FIBER OPTIC CONVERTER IN PLC PANEL @ PAC ROOM TO INTERFACE TO SCDA NETWORK AS REQUIRED.



ABBREVIATIONS LIST:

| | |
|-------|--------------------------------|
| CPU | CENTRAL PROCESS UNIT |
| ET/FO | ETHERNET/FIBER OPTIC CONVERTER |
| FO/ET | FIBER OPTIC/ETHERNET CONVERTER |
| HMI | HUMAN-MACHINE INTERFACE |
| I/O | INPUT - OUTPUT |
| OIT | OPERATOR INTERFACE TERMINAL |
| PLC | PROGRAMMABLE LOGIC CONTROLLER |
| PS | POWER SUPPLY |
| CM | CONTROL MODULE |
| EM | ETHERNET MODULE |

**MADBURY WTP
SCADA ARCHITECTURE**

smr
Engineering, PC

Electrical, Instrumentation & Control Systems Design
114 Main Street, Portsmouth, NH 03801
Phone: 603-425-3313 Fax: 603-425-3309

WE GUARANTEE FOR THIS PROJECT SHALL NOT BE REVISED OR ALTERED IN ANY WAY WITHOUT OUR WRITTEN APPROVAL AND AS A RESULT OF OUR ENGINEERING.

smr Engineering, PC ©

HAZEN AND SAWYER
Environmental Engineers & Scientists
HAZEN AND SAWYER, P.C.
155 FLEET STREET, PORTSMOUTH, NH 03801

**CITY OF PORTSMOUTH
MADBURY WTP UPGRADE
AND
BELLAMY RESERVOIR IMPROVEMENTS**



WTP SCADA BLOCK DIAGRAM

PROJ. NO. 09572-000 ADDENDUM NO. 4
 SKETCH BY: J. CONDRY REF. DWG. NO. 1-2
 DATE: FEB. 25 2009 SKETCH NO. 12-SK-1

02-25-2009 B:28A C: SMR Engineering, PC & Sawyer-Vickrey, Inc. WTP SCADA Block Diagram.dwg By: JIMMY LAST SAVED By: JIMMY LAST