



CITY OF TAMPA

Bob Buckhorn, Mayor

Purchasing Department

Gregory K. Spearman, CPPO
Purchasing Director

April 21, 2011

INVITATION TO BID

Pursuant to Chapter 69-1119, Special Acts, Laws of Florida, sealed Bids for the furnishing of: **BID NO. 71051911, REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM**, will be received by the Director of Purchasing, City of Tampa, until **2:30 PM, MAY 19, 2011** then to be opened and read.

A **SITE VISIT** will be held on **10:00 AM, MAY 4, 2011** at the Hunter's Green Pumping Station, located at 8802 Hunter's Green Drive, to discuss the above referenced subject. This will be the only Site Inspection for vendors prior to bid opening. **PLEASE BRING A COPY OF THIS BID TO THE SITE VISIT.**

Attached are important instructions and specifications regarding responses to this invitation. **Failure to follow these instructions could result in your bid being disqualified.**

All questions regarding this bid should be referred to Kevin Frye, CPPB, Certified Senior Procurement Analyst, Purchasing Department. Questions shall be submitted by email to kevin.frye@tampagov.net. Questions pertaining to the Bid document will be accepted up to five days prior to the scheduled opening date and time referenced above.

Submission of bid responses by mail, hand delivery or express mail must be in a sealed envelope with the Bidder's name and return address indicated. **Type or print the Bid Number and Bid Title on the carrier envelope.** Address the bid envelope as follows:

Purchasing Department
Tampa Municipal Office Building, 2nd Floor
306 E. Jackson Street
Tampa, Florida 33602

(This address is appropriate for mailing,
hand delivery and express mail.)

The Tampa Municipal Office Building is a controlled access building and all visitors are required to obtain a Visitor's Pass prior to visiting the Purchasing Department.

Bids may be submitted electronically via the Internet as an attachment to an email addressed to BidControl@Tampagov.net. The subject line of the email should include the bid number.

Bids shall be accepted no later than the time and date specified on the **INVITATION TO BID**. The Bid Opening shall be thereafter and open to the Public. All bids received after that time shall be rejected. Offers by telegram, telephone or transmitted by facsimile (FAX) machine are not acceptable. No bid may be withdrawn or modified after the time fixed for the opening of bids.

Verification of the City's receipt of a bid submitted by email is the sender's responsibility. Failure of the City to receive such bid by the date and time specified on the Invitation to Bid will result in non-consideration.

306 E. Jackson Street, 2E • Tampa, Florida 33602 • (813) 274-8351 • FAX: (813) 274-8355



STATEMENT OF NO BID

WE WANT YOUR FEEDBACK BECAUSE IT MATTERS TO US

The Purchasing Department's mission is to provide the best specifications in our Bid and Request for Proposal packages to receive maximum participation from the industry/market. Please take a few minutes to briefly explain to us why you will not be responding to the City's Bid or Request for Proposal.

INSTRUCTIONS TO BIDDER

EXECUTED, SEALED BID: Submit the original and two copies of the bid response form, the Bidder's Affirmation and Declaration form and any other requested forms or documents furnished by the City in the bid package. Documents must be executed by an original signature of an authorized representative of the Bidder.

City of Tampa bids are issued electronically via DemandStar's eProcurement bid distribution system. Obtaining bids through Demandstar will ensure that vendor will have the following capabilities: receipt of bids electronically, track the status of bid award activity, receive addenda, be certified as a minority vendor to meet the City of Tampa's minority certification requirements, receive the results of bid awards and view plans and blueprints online electronically. Vendors who obtain specifications and plans from sources other than Demandstar are cautioned that the bid packages may be incomplete. The City will not accept incomplete bids. Contact Demandstar at 800-711-1712 or visit www.demandstar.com/supplier for more information.

The City is not responsible for errors and omissions occurring in the transmission or downloading of any quote documents, plans, or specifications from this website. In the event of any discrepancy between information on this website and the hard copy quote documents, the terms and conditions of the hardcopy document will prevail. DemandStar has no affiliation with the City of Tampa other than as a service that facilitates communication between the City and its vendors. DemandStar is an independent entity and is not an agent or representative of the City. Communications to DemandStar does not constitute communications to the City. Contact DemandStar at 800-711-1712 or visit www.DemandStar.com/supplier for more information.

Bidders discovering any ambiguity, conflict, discrepancy, omission or other error in this BID, shall immediately notify the City of such error in writing and request modification or clarification of the BID. Modifications will be made by issuing an addendum and will be given by written notice to all prospective Bidders who received an original BID from DemandStar (Those who are on the Plan Holders List). Addenda will be posted and disseminated by DemandStar at least five days prior to this BID opening date. The Bidder is responsible for clarifying any ambiguity, conflict, discrepancy, omission or other error in the BID prior to submitting the bid or it shall be deemed waived.

Bid tabulations (results) will be posted to DemandStar and made available to bidders after the scheduled public opening of the sealed bids.

The bid documents contain a General Conditions Section and may, in most cases, contain a Technical Specification Section. General Conditions contain general requirements and Technical Specifications detail the scope of the goods and/or services requested. The Technical Specifications shall always govern whenever there appears to be a conflict.

The bidder shall comply with the applicable requirements of Federal and state laws, all Codes and Ordinances of the City of Tampa as amended from time to time and any applicable professional regulations.

The Bidder is expected to carefully examine the entire bid package, including but not limited to the all provisions, terms, and conditions. **Failure to do so will be at the Bidder's risk.**

After the bid opening, the City prohibits communications initiated by the Bidder with any City official or employee prior to the time an award decision is made, except as initiated by the appropriate City official or employee in order to obtain information or clarification, and as provided for this section regarding technical questions. Communications so initiated by a Bidder shall be grounds for disqualification for consideration for award of this Invitation to Bid and subject the offending Bidder to debarment.

GPC LISTING

City of Plant City

Dave Sollenberger, City Manager
Drawer "C"
Plant City, FL 33564
813-659-4200 – Telephone
813-659-4216 – Fax
citymanager@plantcitygov.com

City of Temple Terrace

Judy Crutcher, Assistant Purchasing Agt.
P.O. Box 16930
Temple Terrace, FL 33687
813-506-6420 – Telephone
813-989-7185 – Fax
jcrutcher@templeterrace.com

Clerk of Circuit Court

601 E. Kennedy Blvd.-13th Floor
P.O. Box 1110
Tampa, FL 33601
Phone: (813) 276-8100 Ext.7721
FAX: (813) 272-5521
www.hillsclerk.com

Tampa-Hillsborough County Expressway Authority

Nancy Marino, Facilities & Contracts Manager
1104 East Twiggs St. Suite #300
Tampa, Florida 33602
813-272-6740 – Telephone
813-276-2492 – Fax
Nancy@tampa-xway.com

Hillsborough Area Regional Transit Authority

Melissa Smiley
4305 E. 21st Street
Tampa, FL 33605
813-623-5835 – Telephone
813-664-1119 – Fax
smileym@gohart.org

Hillsborough Co. Aviation Authority

P. O. Box 22287
Tampa International Airport
Tampa, FL 33622-2287
Phone: (813) 870-8730
FAX: (813) 875-6670
www.tampaairport.com

Hillsborough County School Board

P. O. Box 3408
Tampa, FL 33601-3408
Phone: (813) 272-4329
FAX: (813) 272-4007
www.sdhc.k12.fl.us

Hillsborough Community College

Vonda Melchior, Director of Purchasing
39 Columbia Drive
Tampa, FL 33606
813-253-7060 – Telephone
813-253-7561 – Fax
vmelchoir@hcc.fl.us

Hillsborough County Board of County Commissioners

601 E. Kennedy Blvd., 18th Floor
P. O. Box 1110,
Tampa, FL 33601-1110
Phone: (813) 272-5790
FAX: (813) 272-6290
www.hillsboroughcounty.org

Hillsborough Co. Sheriff's Office

J. H. Shillady, Fiscal Officer
P.O. Box 3371
Tampa, FL 33601
813-247-8033 – Telephone
813-247-8246 – Fax
Jshillady@hcsa.tampa.fl.us

State Attorney's Office

Mark Ober, State Attorney
800 E. Kennedy Blvd., 5th Floor
Tampa, FL 33602
813-272-5400 – Telephone
813-272-7014 – Fax
Ober_M@SAO13th.com

Tampa Port Authority

David Webb, Financial Supervisor
P.O. Box 2192
Tampa, FL 33601
813-905-5164 – Telephone
813-905-5109 – Fax
dwebb@tampaport.com

Supervisor of Elections

601 E. Kennedy Blvd., 16th Floor
Tampa, FL 33602
Phone: (813) 276-8274
FAX: (813) 272-7043
www.votehillsborough.org

City of Tampa Housing Auth.

Jerome Ryans, President/CEO
1514 Union Street
Tampa, FL 33607
813-253-0551 – Telephone
813-4522 – Fax
irenew@thaf.fl.us

Tampa Sports Authority

Joe Haugabrook, Director of Purchasing
4201 N. Dale Mabry Highway
Tampa, FL 33607
813-673-4300 – Telephone
813-673-4312 – Fax
jhaugabrook@tampasportsauthority.com

Tax Collector

601 E. Kennedy Blvd., 14th Floor
Tampa, FL 33602
Phone: (813) 307-6222
FAX: (813) 307-6521
www.hillstax.org

The Children's Board of Hills. County

1002 E. Palm Avenue
Tampa, FL 33605
Phone: (813) 229-2884
FAX: (813) 228-8122
www.childrensboard.org

University of South Florida

Tom Dibella, Director of Purchasing
Division of Procurement
3702 Spectrum Blvd. UTC135-P
Tampa, FL 33612
813-974-2481 – Telephone
813-974-5362 – Fax
tdibella@admin.usf.edu

Hillsborough County Purchasing

John T. Fessler, Acting Director
P.O. Box 1110
Tampa, FL 33601
813-272-5790 – Telephone
813-272-6290 – Fax
procurementservices@hillsboroughcounty.org

Property Appraiser

601 E. Kennedy Blvd., 16th Floor
Tampa, FL 33602
Phone: (813) 272-6100
FAX: (813) 272-5519
www.hcpafl.org

Tampa Palms Community Dev. Dist.

16311 Tampa Palms Blvd W
Tampa, FL 33647
Phone: (813) 977-3933
Fax: (813) 977-6571
www.tpoa.net

INSURANCE REQUIREMENTS
For Goods/Services, Bids/Requests for Proposals, Awards/Contracts

During the life of the award/contract the Awardee/Contractor shall provide, pay for, and maintain insurance with companies authorized to do business in Florida, with an A.M. Best rating of B+ (or better) Class VII (or higher), or otherwise be acceptable to the City if not rated by A.M. Best. **All insurance shall be from responsible companies duly authorized to do business in the State of Florida.** All commercial general liability insurance policies (and Excess or Umbrella Liability Insurance policies, only if applicable) shall provide that the City is an additional insured as to the operations of the Awardee/Contractor under the award/contract including the additional insured endorsement, the subrogation waiver endorsement, and the Severability of Interest Provision. In lieu of the additional named insured requirement, if the Awardee/Contractor's company has a declared existing policy which precludes it from including additional insureds, the City may permit the Contractor to purchase an Owners and Contractors Protective Liability policy. Such policy shall be written in the name of the City at the same limit as is required for General Liability coverage. The policy shall be evidenced on an insurance binder which must be effective from the date of issue until such time as a policy is in existence and shall be submitted to the City in the manner described below as applicable to certificates of insurance. The insurance coverages and limits required must be evidenced by a properly executed Acord 25 Certificates of Insurance on form. Each Certificate must be personally manually signed by the Authorized Representative of the insurance company shown in the Certificate with proof that he/she is an authorized representative thereof. The City requires contractor/vendor to fax a copy of insurer's cancellation notice upon receipt within 2 business days to the Purchasing Department or be in breach of contract. Should any aggregate limit of liability coverage be reduced, it shall be immediately increased back to the limit required by the award/contract. The insurance coverages required herein are to be primary to any insurance carried by the City or any self-insurance program thereof. All claims made insurance policies must provide the retroactive date on the proof of coverage.

Within ten working days of receipt of notification of intent to award, the successful Bidder/Proposer shall provide the City of Tampa Purchasing Department the required insurance on the Acord 25 certificate of insurance form. Failure to furnish by the 10th working day may disqualify Bidder/Proposer as non-responsible, unless the due date is extended by the Director of Purchasing or his Designee.

The City may waive any or all of these requirements based on the specific nature of goods or services to be provided under the award/contract.

The Awardee/Contractor will be required to provide and pay for the following:

- a. **Commercial General Liability Insurance** shall be provided on the most current Insurance Services Office (ISO) form or its equivalent. This coverage must be provided to cover liability arising from premises and operations, independent contractors, products and completed operations, personal and advertising injury, contractual liability, and XCU exposures (if applicable). Completed operations liability coverage shall be maintained for a minimum of one-year following completion of work. The amount of Commercial General Liability insurance shall not be less than the amount specified.

\$1,000,000 per occurrence and a \$2,000,000 general aggregate.

- b. **Automobile Liability Insurance** shall be maintained in accordance with the laws of the State of Florida, as to the ownership, maintenance, and use of all owned, non-owned, leased, or hired vehicles. The amount of Automobile Liability Insurance shall not be less than the amount specified.

- (a) \$500,000 combined single limit each occurrence bodily injury & property damage.
- (b) \$1,000,000 combined single limit each occurrence bodily injury & property damage.

The letter preceding the limits of coverage indicates the insurance required for the type of award based on Total Proposal Price.

- (a) \$100,000 and under
- (b) \$100,000 and over

- c. **Worker's Compensation and Employer's Liability Insurance** shall be provided for all employees engaged in the work under the award, in accordance with the laws of the State of Florida. The amount of the Employer's Liability Insurance shall not be less than the amount specified.

Worker's Compensation: Florida Statutory Requirements

Employer's Liability:

- (a) \$500,000 bodily injury by accident and each accident, bodily injury by disease policy limit, and bodily injury by disease each employee.
- (b) \$1,000,000 bodily injury by accident and each accident, bodily injury by disease policy limit, and bodily injury by disease each employee.

The letter preceding the limits of coverage indicates the insurance required for type of award based on Total Proposal Price.

- (a) \$100,000 and under
- (b) \$100,000 and over

- d. **Excess Liability Insurance (Umbrella Policy)** may compensate for a deficiency in general liability, automobile, or worker's compensation insurance coverage limits.

**GENERAL CONDITIONS FOR
REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM**

1. SCOPE AND CLASSIFICATION

1.1 SCOPE. This specification describes design, fabrication, construction and installation of an odor control system at the Hunter's Green Pumping Station, located at 8802 Hunter's Green Drive, for the Wastewater Department of the City of Tampa.

1.2 CLASSIFICATION. The classification shall be as contained in the technical portion of this specification listed herein below.

2. QUALITY ASSURANCE PROVISIONS

2.1 TEST AND INSPECTION. It shall be the Awardee's responsibility to perform all of the tests and inspections required by this specification, unless otherwise stated in the award. The City of Tampa reserves the right to perform any of the tests and inspection requirements where said tests and inspections are needed to further determine compliance with this specification.

2.2 QUALITY AND QUALITY CONTROL. A system of test and inspection shall be used to insure receipt of the quality and quantity of material(s)/service(s) purchased. Material(s)/service(s) will be promptly inspected and any discrepancies from the purchase order and/or the supplier's invoice shall be reported immediately to the Director of Purchasing.

2.3 HOLD HARMLESS. The Awardee shall agree to release, indemnify, and hold harmless the City of Tampa from and against any and all liabilities, claims, suits, damages, charges, or expenses (including attorney's fees, whether at trial or appeal) which the City may suffer, sustain, incur, or in any way be subjected to by reason of or as a result of any act, negligence, or omission on the part of the Awardee, its agent or employees, in the execution or performance of the obligations assumed under or incidental to, the award into which the Awardee and the City will enter, except when caused solely by the fault, failure, or negligence of the City, its agents, or employees.

3. AWARDEE LIABILITY

3.1 NEXT LOW BIDDER. In the event of default by the Awardee, the City of Tampa reserves the right to utilize the next lowest Bidder as the new Awardee. In the event of this occurrence, the next lowest Bidder, if it wishes the award, shall be required to provide the bid items at the prices as contained on its proposal or bid for this specification.

4. CONDITIONS

4.1 AUTHORIZATION. All orders shall be placed via City of Tampa Purchase Orders, or as releases against a City of Tampa "Open" Purchase Order. **OFFICIAL AWARD WILL BE MADE BY CITY OF TAMPA PURCHASE ORDER ONLY.** As relating to the Government Purchasing Council of Hillsborough County, any member may place orders as dictated by its individual entity's preference.

4.2 FURNISHING BID ITEMS. Award items are to be furnished on an "as needed, when needed basis" during the life of the award.

4.3 QUALITY. The materials to be furnished shall be currently in production and shall be of the manufacturer's standard or better quality.

4.4 ALTERNATE BIDS. Bidders shall, as to each item, submit only one bid for the specified material(s)/services(s). The offer of an alternate for any material(s)/service(s) shall, for the purpose of evaluation of bids, be construed as a refusal to bid on the material(s)/service(s) specified.

The determination as to whether any alternate material(s)/service(s) bid is or is not equal to the material(s)/service(s) specified as a standard shall be made by the City, and such determination shall be final and binding upon all Bidders.

4.5 PENALTIES. The City of Tampa reserves the right to increase or decrease quantities shown without penalty.

4.6 ADDITION/DELETION. The City of Tampa reserves the right to add to or delete any item from this bid or resulting award when deemed to be in the best interest of the City of Tampa.

4.7 QUANTITIES. The City shall not be required to purchase any minimum or maximum quantities during the term of any award resulting from this specification.

4.8 SUBSTITUTION. The Awardee shall not substitute items for like items without the approval of the City. Any violation of such procedures may result in a possible award cancellation. All approved substitutes shall be annotated as such on the Awardee's shipping document(s) or quotation.

4.9 LOCATIONS. The City of Tampa reserves the right to add any additional location(s) to this award that requires the same scope of services as specified herein. The City also reserves the right to delete or remove any location(s) from this award.

4.10 BID PRICES. Bid prices shall be firm and shall not be amended after the date and time of the bid opening. Any attempt by the Awardee to amend said bid prices shall constitute default as outlined in this specification.

Prices quoted in the Proposal and Bid Response form shall include all shipping costs, shipped F.O.B. Tampa, Florida or to the facility location specified by the requestor or the purchase order.

All taxes of any kind and character payable on account of the work done and materials furnished under the award shall be paid by the Awardee and shall be deemed to have been included in the bid. The Laws of the State of Florida provide that sales tax and use taxes are payable by the Awardee upon the tangible personal property incorporated in the work and such taxes shall be paid by the Awardee and shall be deemed to have been included in the bid. The City is exempt from all state and federal sales, use, transportation and excise taxes.

Award prices include all royalties and costs arising from patents, trademarks, and copyrights in any way involved in the work. Whenever the Awardee is required or desires to use any design, device, material or process covered by letters of patent or copyright, the Awardee shall indemnify and save harmless the City, its officers, agents and employees from any and all claims for infringement by reason of the use of any such patented design, tool, material, equipment, or process, to be performed under the contract, and shall indemnify the said City, its officers, agents, and employees for any costs, expenses and damages which may be incurred by reason of any infringement at any time during the prosecution or after the completion of the work.

4.11 BID EVALUATION. The evaluation of bids and the determination as to equality of material(s)/service(s) offered shall be the responsibility of the City of Tampa and will be based on information furnished by the Bidder.

4.12 ERROR IN BID CALCULATION. In the event there shall be a discrepancy between the stated total bid and the corrected sum of the correct multiplication of the stated unit price and the quantity specified, the corrected sum shall be considered the bid price.

4.13 BASIS OF AWARD. The City of Tampa reserves the right to award this bid by the aggregate total. To be considered lowest responsive, responsible Bidder by aggregate total, the Bidder shall have to bid on all items.

Award Criteria/Responsibility. The award will be made to the lowest responsive, responsible Bidder. To determine the responsibility of the monetary Bidder, the City may request and review documentation relative to the ability of the Bidder to satisfactorily perform the work specified in a first class manner as well as documentation of its experience; the financial condition of the Bidder from a current financial report and the Bidder's credit rating; whether the Bidder has ever been declared in default of an award; the Bidder's insurability, eligibility for bonding; and any/all pertinent information deemed necessary to determine said responsibility.

An award will be made, if at all, within 120 days after opening of the bids.

4.14 AWARD PERIOD. The award period shall be from the effective date of the award until completion of the project. The City is requiring the project be completed within 120 days from the City's Notice to Proceed.

4.15 NON-APPROPRIATION OF FUNDS. In the event no funds or insufficient funds are appropriated for expenditures under this award, the City will notify the Awardee in writing of such occurrence and the award shall terminate without penalty or expense to the City on the last day of the fiscal year in which sufficient funds have been appropriated.

4.16 PERFORMANCE. The Awardee may be required to furnish evidence in writing that he or she maintains a permanent place of business and has adequate equipment, finances, personnel, and inventory to furnish the items offered satisfactorily and expeditiously, and can provide necessary services.

4.17 INSURANCE. During the life of the award the Awardee shall provide, pay for, and maintain insurance with companies authorized to do business in Florida, with a A.M. Best rating of B+ (or better) Class VI (or higher), or otherwise be acceptable to the City if not rated by A.M. Best.

The City of Tampa uses Ebix BPO to manage its insurance certificates and related documentation. Upon insurance expiration, Ebix BPO staff will notify the Awardee to request updated insurance certificate(s) and endorsement(s).

4.18 INSPECTION. The City of Tampa reserves the right to inspect the Bidder's place of business and equipment prior to awarding any award to determine the responsibility of said Bidder to perform or provide the requirements of the bid request.

4.19 AWARD CHANGES. No changes, over the award period, shall be permitted unless prior written approval is given by the Director of Purchasing and, where applicable, confirmed by resolution of the City Council of the City of Tampa.

No Awardee shall assign the award or any rights or obligations thereunder without the written consent of the City. In the event of such approved subcontracting, the Awardee agrees to provide the City with written documentation relative to the Subcontractor(s) employed in this award, including but not limited to the Subcontractor's W/MBE and Equal Employment Opportunity/Affirmative Action status.

4.20 DEFAULT/RE-AWARD. Any award resulting from this specification may be cancelled by the Director of Purchasing in whole or in part by written notice of default to the Awardee upon non-performance or violation of award terms, including the failure of the Awardee to deliver materials or services within the time stipulated in this specification, unless extended in writing by the Director of Purchasing.

In the event an award is cancelled because of the default of the Awardee, the Director of Purchasing may: (i) purchase the materials or services specified in this specification on the open market; or (ii) make an award to the next lowest bidder and establish the period of such award, provided such period is no longer than the award period set forth in this specification.

4.21 CANCELLATION. When deemed to be in the best interest of the City of Tampa, any awards or contracts resulting from this specification may be cancelled by the following means:

4.21.1 10-day written notice with cause; or

4.21.2 30-day written notice without cause.

4.22 REJECTION. The City of Tampa reserves the right to cancel, reject any and/or all bids, or to waive any irregularities and accept that bid which is the lowest and best.

4.23 USE OF STATE CONTRACT, GPC, OR COOPERATIVE PURCHASING BIDS. The City of Tampa reserves the right to utilize applicable State of Florida Contracts, GPC Bids, or those contracts of any other federal, state, or local governmental entity under the terms of a bid submitted to such entity, provided that such contract is procured in compliance with the procuring entity's law, bylaws, regulations, or ordinances regarding competitive solicitation, which must provide for full and open competition for any items covered by this specification when the use of same is in the best interest of the City of Tampa.

4.24 CONVICTED VENDOR LIST (PUBLIC ENTITY CRIME). A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on an award/contract to provide any goods or services to a public entity, may not submit a bid on an award/ contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list. [See Florida State Statute 287.133 (2)(a)]

4.25 FLORIDA PUBLIC RECORDS LAW. In accordance with Chapter 119 of the Florida Statutes, and, except as may be provided by Chapter 119 of the Florida Statutes and other applicable State and Federal Laws, all Bidders should be aware that the Bid and the responses thereto are in the public domain and are available for public inspection. Bidders are requested, however, to identify specifically any information contained in their bids which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law. All bids received in response to this Invitation to Bid become the property of the City of Tampa and will not be returned. In the event of an award, all documentation produced as part of the contract will become the exclusive property of the City.

4.25.1 In accordance with Chapter 119.071(1)b)1.a. of the Florida Statutes, sealed bids or proposals received by an agency pursuant to invitations to bid or requests for proposals are exempt from s. 119.07(1) and s. 24(a), Art. I of the State Constitution until such time as the agency provides notice of a decision or intended decision.

4.25.2 In accordance with Chapter 119.071(1)b)1.b. of the Florida Statutes, if an agency rejects all bids or proposals submitted in response to an invitation to bid or request for proposals and the agency concurrently provides notice of its intent to reissue the invitation to bid or request for proposals, the rejected bids or proposals remain exempt from s. 119.07(1) and s. 24(a), Art. I of the State Constitution until such time as the agency provides notice of a decision or intended decision.

4.26 PROCUREMENT PROTEST PROCEDURES. A protest must be filed with the Director of the soliciting Department within three (3) business days of posting the City's intent to award and may be filed by an actual bidder or proposer, who is allegedly aggrieved in connection with the issuance of a bid solicitation, proposal solicitation or pending award of any contract in any competitive process utilized by the City of Tampa for procurements of supplies, materials or services and construction of public improvements and has standing to protest under Florida Law. Any protest must be filed in accordance with the City of Tampa Code, Chapter 2, Article V, Division 3, Purchases and Contracts, Section 2-282, Procurement Protest Procedures. Protests not complying with the provisions of this Section shall not be reviewed.

All dates and times specified in the Protest Procedures in Section 2-282 are calculated as city business days. A City business day shall mean 8:00 am to 5:00 pm Monday through Friday, with the exception of city holidays. In all instances any document required to be transmitted by a certain date must be received in the required office by 4:30 pm. An envelope which is postmarked by the required date is not sufficient. Transmittal by fax, email or other electronic means may be accepted. However, it shall be the responsibility of the party transmitting the document(s) to ensure that the document(s) were received, and the transmitting party shall bear any risk of interruption or failure in the electronic transmission.

4.27 LAWS, CODES AND ORDINANCES. The Successful Bidder shall comply with any applicable requirements of Federal, State, County and City laws, Codes, Ordinances, Regulations and Rules of the City of Tampa as amended from time to time.

4.28 CITY OF TAMPA ETHICS CODE. The Bidder shall comply with all applicable governmental and city rules and regulations including the City's Ethics Code which is available on the City's website. (City of Tampa Code, Chapter 2, Article VIII. - Section 2-522)

Moreover, each Bidder responding to this Invitation to Bid or Request for Proposal acknowledges and understands that the City's Charter and Ethics Code prohibit any City employee from receiving any substantial benefit or profit out of any contract or obligation entered into with the City, or from having any direct or indirect financial interest in effecting any such contract or obligation. The Awardee shall ensure that no City employee receives any such benefit or interest as a result of the award of this Invitation to Bid or Request for Proposal. (City of Tampa Code, Chapter 2, Article VIII. - Section 2-514(d))

Please note that the City's Ethics Code may be accessed on the Internet by utilizing the web link below:

http://www.tampagov.net/appl_Message_Center/external.asp?strServiceID=246

Tampa's municipal codes are published online by the Municipal Code Corporation. Printed copies of the Ethics Code can be obtained from the City Clerk's Office for a fee of \$0.15 cents a page.

4.29 INVOICING. The Awardee shall furnish the City complete itemized invoices for work performed. Invoices are to reflect the prices stipulated on the purchase order and as outlined in this bid itemizing parts, labor hours, materials, etc.

The City will not accept an aggregate invoice. As part of the award process, the City may request a sample invoice. Invoices shall contain, but not be limited to the following information:

- Invoice Number;
- Company Name;
- City work order number (if applicable);
- Purchase order number;
- Location, time and dates of work;
- Description of work performed;
- Cost of work as stated in Bid Response and extended price to reflect total cost for number of times work performed.

4.30 PAYMENT. Full payment will be made by the City after receipt and acceptance of materials/services, invoices, Sub-Contractors/Consultants/Suppliers Payments form, and normal processing time--approximately 30 days in total. The City does not pay service charges on late payments; however, the City is subject to Florida's Prompt Payment Act. (See Section 218.70 - 218.79, Florida Statutes.) Bidders that accept Visa/Mastercard payments can be enrolled in the City's ePayments program for faster payment turnaround, by contacting the City's Accounts Payable Department at acctspayable@tampagov.net

4.31 SUB-CONTRACTING SUBMITTALS. No Awardee shall assign the award or any rights or obligations thereunder without the written consent of the City. In the event of such approved subcontracting, the Awardee agrees to provide the City with written documentation relative to the Subcontractor(s) solicited, or that will be employed in this award, including but not limited to submittal of attached Schedule of Sub-Contracting forms, with bid response. ("Schedule of All Sub-Contractors/Consultants/Suppliers Solicited" MBD 10 and "Schedule of Sub-Contractors/Consultants/Suppliers to be Utilized" MBD 20)

Subcontractor shall be defined as; a business enterprise, firm, partnership, corporation, consultant or combination thereof having a direct contract with a prime contractor for any portion of the advertised work that is awarded by the owner/owner's representative.

Supplier shall be defined as; a business enterprise that either directly contracts with a Prime Contractor/Consultant or directly contracts with a Subcontractor under such Prime Contractor/Consultant to provide materials, supplies or equipment in connection with a Contract awarded by the owner/owner representative. A Supplier may be a regular dealer, distributor or manufacturer.

5. NON-DISCRIMINATION IN CONTRACTING AND EMPLOYMENT

The following provisions are hereby incorporated into any contract executed by or on behalf of the City of Tampa.

The successful Bidder shall comply with the following Statement of Assurance:

During the performance of this award, the Awardee herein assures the CITY, that said Awardee is in compliance with Title VII of the 1964 Civil Rights Act, as amended, the Florida Civil Rights Act of 1992, and the City of Tampa Code of Ordinances, Chapter 12, in that the CONTRACTOR does not on the grounds of race, color national origin, religion, sex, age, handicap or marital status, discriminate in any form or manner against said Awardee's employees or applicants for employment.

The Awardee understands and agrees that this award is conditioned upon the veracity of this Statement of Assurance, and that violation of this condition shall be considered material breach of this Contract. Furthermore, the CONTRACTOR herein assures the CITY, that said Awardee will comply with Title VI of the Civil Rights Act of 1964 when federal grant(s) is/are involved. This Statement of Assurance shall be interpreted to include Vietnam-Era Veterans and Disabled Veterans within its protective range of applicability.

The Awardee further acknowledges and agrees to provide the City with all information and documentation that may be requested by the City from time to time regarding the solicitation, selection, treatment and payment of subcontractors, suppliers and vendors in connection with this Contract. The Contractor further acknowledges that it must comply with City of Tampa Code of Ordinances, Chapter 26.5, as enacted by Ordinance No. 2008-89."

5.1 EQUAL OPPORTUNITY.

The City of Tampa hereby notifies all Bidders that all eligible businesses, including Small Local Businesses Enterprises (SLBEs) will be afforded a full opportunity to participate in any award made by the City of Tampa pursuant to this present proposal matter and will not be subjected to discrimination on the basis of race, color, sex, or national origin. The City of Tampa prohibits any person involved in City of Tampa contracting and procurement activities, to discriminate on the basis of race, color, religion, sex, national origin, age, or physical handicap.

For additional information contact the Minority Business Development Office at 813/274-5543 or 813/274-5522. http://www.tampagov.net/dept_minority_business_development/

TECHNICAL SPECIFICATIONS FOR REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM

The City of Tampa, Wastewater Department, requires replacement of the odor control system at the Hunter's Green Pumping Station, located at 8802 Hunter's Green Drive. Specifications are as follows:

1. GENERAL

This work includes the design, fabrication, construction and installation of the proposed biological odor control unit in accordance with the specifications. The Awardee shall provide all labor, materials (except where otherwise detailed), equipment necessary and all other appurtenant work for the completion of the work detailed on the plans and herein. The Engineering Plans (5 pages) are included as an attachment to this document.

2. BIDDER QUALIFICATIONS AND SUBMITTALS

2.1 Manufacturer must have a minimum of three years of experience in the design and construction of bio-trickling filter odor control systems specifically designed to remove hydrogen sulfide gas from sanitary sewer systems.

2.2 Manufacturer shall have designed and supplied at least three pre-assembled systems that are currently operating in the State of Florida. Bidder shall provide documentation in the bid submittal package to substantiate that the Manufacturer possesses the experience to perform the work of this specification and include a list of at least two references from present or former clients. This list shall demonstrate the successful completion of similar projects. Such list shall be complete with telephone numbers and contact person(s).

2.3 Bidder shall submit a detailed layout of the proposed equipment to document that the system meets all material requirements detailed in this specification. The equipment shall be arranged to allow maximum access to all components. All submittals and shop drawings shall be originals or high quality copies that are easily readable.

2.4 Bidder shall include a list of employees that will be involved in performing the work under this award, including years of experience and any licensing and certifications received. In addition, any licenses for the company pertinent to the work described herein should also be included.

2.5 A list of equipment that is to be used in the execution of the work detailed herein. This list shall include the capabilities and any other relevant technical data of the equipment that is listed. This information shall be sufficient for the City to determine the suitability of the equipment to accomplish the work described herein. The City reserves the right to inspect the Awardee's place of business to ensure adequacy in these aforementioned items prior to the start of the award resulting from this specification.

Bidders and Manufacturers that do not meet these requirements and/or do not submit the abovementioned information in their bid response package shall not be considered.

3. SPECIFIC PROVISIONS

3.1 SCOPE

3.1.1 The City of Tampa's Wastewater Department seeks a firm that specializes in the design and construction of odor control systems to furnish and install a bio-trickling filter odor control system at the Hunter's Green pumping station.

3.1.2 The firm shall design the system, furnish all equipment, and provide, coordinate, and supervise the installation, start-up, and testing. The work shall include delivery and installation of the proposed odor control equipment, connecting the system to the pumping station and water supply, installation of any necessary concrete equipment pads, installation of the electrical control system and associated electrical connections, seeding and placing the system into operation, and all appurtenant work.

3.1.3 The electrical specifications related to the work detailed herein are included as attachments to this document:

- SECTION 45 – ELECTRICAL
- SECTION 62 - CONTROL AND WIRING FOR PACKAGED UNITS
- SECTION 76 - CONDUIT, WIRE, AND GROUNDING

3.2 SYSTEM DESCRIPTION

3.2.1 The odor control system shall be a pre-assembled system that can be delivered to the site and placed into operation in a maximum of two days from delivery (excluding pre-delivery site preparation; i.e. installation of concrete pads, etc.) The odor control system shall use a biological filter process to remove hydrogen sulfide gas and other noxious odors from the air stream through the use of naturally occurring microbes that biologically break down odors. The system shall consist of an exhaust fan and motor assembly, reactor vessel, media bed and nutrient distribution system, ductwork, piping, and control system. Additionally, the system shall also include a 3-pole NEMA 4X disconnect switch which disables all electrical power to the system; any control and auxiliary voltages shall be derived from the load side of the disconnect switch.

3.2.2 The system shall be designed to pull air from the pumping station and gravity mains, through the bioreactor vessel and media bed, and then into the blower so that only treated air enters the blower. The blower shall be installed on ground level.

3.3 SYSTEM PERFORMANCE REQUIREMENTS

Air Flow Rate	450 cfm
H ₂ S In, Peak	1000 ppm
H ₂ S In, Average	350 ppm
Minimum H ₂ S Removal Efficiency, percent at outlet	>99%
Maximum pressure across reactor system	3.0 in W.C.

4. PARTS

4.1 BIOLOGICAL FILTER REACTOR VESSEL AND MEDIA

4.1.1 The system shall have a primary stage that uses a bio-trickling filter to remove and oxidize hydrogen sulfide gas and other odorous gasses from the air stream through a micro-biological process via mass transfer of the compounds from gaseous phase into a liquid phase. The liquid shall be distributed downward through the media using an irrigation system. Water recirculation systems will not be accepted. The air stream shall flow counter current to the liquid to maximize mass transfer. Co-current air flow systems shall not be acceptable.

4.1.2 The reactor vessel shall be constructed of materials that are completely resistant to UV and hydrogen sulfide gas and other chemicals that may be present in the air stream or treatment process. Acceptable materials of construction include high density cross linked chemical resistant polyethylene (HDXLPE) and fiberglass reinforced plastic (FRP) using corrosion resistant resins, such as Hetron 922. All required fasteners, supports, brackets and other hardware must be 316 stainless steel. Other corrosion resistant materials may also be considered.

4.1.3 The reactor treatment media shall be constructed of corrosion resistant non-organic synthetic materials that provide a high surface area for the growth of bio-film and high mass transfer rates of the odorous gases. A chemical resistant polyethylene media material shall be supplied or other approved material may be considered. The media shall not deteriorate or degrade and shall have a demonstrated warranted life of 10-years. Documentation shall be supplied to the City from the manufacturer to meet this requirement.

4.1.4 The system shall have provisions for the addition of supplemental chemical nutrients on an automated basis to maintain the necessary bacteria populations needed to meet the specified gas removal efficiencies. An electronic metering pump shall be supplied to deliver the nutrients as manufactured by Pulsafeeder model PULSAtron Series C plus. The system shall also include all pipes, valves, tanks, pumps, etc. necessary to deliver the nutrients. The nutrient tank shall be of a dark storing container to inhibit any algae growth. Any required nutrients shall be non-hazardous, non-proprietary, and locally available. Systems requiring specialized or proprietary nutrients to meet performance criteria will not be acceptable.

4.1.5 The reactor shall have a water delivery system that uses at least one spray nozzle to provide a continuous stream of water that trickles down through the media to keep biofilms moist and biologically active. Spray nozzles shall be of the non-clogging full cone spiral-type PVC nozzle as manufactured by Spraying Systems Company. The operation of the spray nozzles shall be via a motor controlled actuator valve and shall be capable of continuous or intermittent operation.

4.2 DUCTWORK

4.2.1 The ductwork for the system shall be constructed of corrosion resistant materials suitable for continuous exposure to a saturated hydrogen sulfide gas stream. Acceptable materials include: fiberglass reinforced plastic (FRP) using Hetron 922 FR resin, high density polyethylene, or CPVC Schedule 80.

4.2.2 The size of the ducts shall be as required to meet the specified airflow.

4.3 EXHAUST BLOWER

4.3.1 The exhaust blower shall be designed so that all materials in contact with the air stream are constructed of corrosion resistant materials. The blower shall be direct drive corrosion resistant cast aluminum with heavy duty cast aluminum housing and radial blade wheel. External components that are not in contact with the air stream shall be either constructed of corrosion resistant materials or shall be coated with a protective coating. All internal and external hardware shall be 316 stainless steel.

4.3.2 Motors shall be 2.0 HP/3600 rpm/3 phase/60 hz 208-230/460 V all stainless steel washdown duty induction type motors with sealed lubricated bearings mounted on a corrosion resistant aluminum motor pedestal.

4.3.3 The noise associated with the blower, the air ducts, and exhaust system shall not exceed 50 dB when measured at the property line (approximately 25-ft from the odor control system). If necessary to meet the required sound levels, the Awardee shall provide an exhaust silencer.

4.4 PROCESS CONTROL SYSTEM

4.4.1 A process control system shall be provided to operate the exhaust fan, nutrient pumps, actuator valve, instrumentation and all other system components. A three-phase, 60 hz, 208-230/460 V AC feed shall be supplied to the panel for use to power the system.

4.4.2 The process control system shall be manufactured of welded marine grade HDPE with all stainless steel mounting hardware where necessary. The skid will include a NEMA 4x blower motor controller, timers, flow meters, corrosion resistant piping, valves, nutrient feed pump and nutrient tank in a complete packaged system for operational process control of the bio-trickling filter.

5. FIELD TESTS AND PERFORMANCE EVALUATION

5.1 START-UP AND TESTING

5.1.1 Awardee shall furnish the services of a factory representative, who has complete knowledge of the system and its components, to inspect the final installation, to train operating personnel in the proper operation and maintenance of the system, and to supervise testing of the system.

5.1.2 Upon satisfactory installation of the odor control system, Awardee shall seed, adjust, and balance the system. The system shall then be subjected to a 30-day field test and performance evaluation. The field tests shall demonstrate that under all conditions or operation, the entire system:

- Has not been damaged by transportation or installation.
- Has been properly installed.
- Has no mechanical defects.
- Is in proper alignment.
- Has been properly connected.
- Is free of all objectionable vibration.
- Is free of overloading any parts.
-

5.1.3 The test shall also demonstrate that the system performs as specified and meets all operation criteria. Any deficiencies in the system shall be promptly corrected by the Awardee.

5.1.4 Field analysis and sampling shall be performed with all equipment fully operational with all components in automatic mode. Field analysis and sampling procedures shall include, but not be limited to, the following:

- Continuous hydrogen sulfide measurements of the treated and untreated air shall be taken at the inlet and outlet sampling ports to determine compliance with the specified hydrogen sulfide removal. The outlet samples shall be taken on the discharge side of the reactor vessel.

5.1.5 If the odor control system equipment fails to meet the specified performance criteria listed in Section 3.3 above, the Awardee will be allowed up to 14 days to make adjustments or modifications to the equipment at no additional cost to the City. After the adjustments or modifications are made, the entire field test and performance evaluation, or such portions which are necessary to demonstrate compliance as determined by the City, shall be repeated at no additional cost to the City until the system meets the specified performance criteria.

6. SAFETY

6.1 AWARDEE RESPONSIBILITY

6.1.1 Awardee shall immediately report any unsafe work practice or unsafe condition to their supervisor(s). The Awardee is solely responsible for the safety of their workers, including any subcontractors, and shall comply with all applicable requirements [i.e.: 29 CFR 1910 -Occupational Safety and Health Standards, 29 CFR 1926 - Safety and Health Regulations for Construction, etc] and industry safety standards while at the work site. The fact that City personnel may bring un-safe conditions to the attention of any member of the Awardee's work force does not relieve the Awardee of this responsibility.

6.1.2 The Awardee shall have a designated Safety Officer within its organization. At the Pre-Construction meeting, the Awardee shall provide the name and contact information of the Safety Officer to the Engineer.

6.1.3 At the Pre-Construction meeting, the Awardee will be given pertinent safety related information, necessary forms and instructions (i.e.: AWTP Lockout/Tagout Procedures, AWTP Hot Work Permits, etc) that pertain to any work that might be utilized during the award. The Awardee shall be responsible to disseminate that information to their employees and sub-contractors. Special care shall be taken by the Awardee to ensure that any new employee or sub-contractor to the work site shall be briefed on these safety instructions.

6.1.4 The Awardee shall develop and implement a comprehensive health and safety plan for their employees that will cover all aspects of onsite construction operations and activities associated with the award. This plan must comply with all applicable health and safety regulations and any project specific requirements that the project has specified.

6.2 INCIDENT REPORTING

All accidents that result in personal injury, illness or property damage shall be immediately reported and investigated, regardless of the extent of injury, illness or property damage. Employees must report accidents within one hour (or as soon as practical) from the time of occurrence to their immediate supervisor who in turn will report it to the City's inspector. The City inspector will record the incident in their daily report and report it to the Risk Management Division (274-5708).

6.3 AIR-BORNE DEBRIS

All personnel in close proximity to drilling, sawing, sanding, scraping, spraying, power-washing or other work being done, either in enclosed spaces or in the open, that creates dust or air-borne debris shall wear eye protection [29 CFR 1910.133] and a respirator [29 CFR 1910.134].

6.4 HOT WORK

All welding, soldering, brazing, acetylene cutting or any other work at the AWTP or any pump station; that produces high temperatures shall require a AWTP "Hot Work Permit" and may require one or more fire watches. The number and location of fire watches (if any) shall be a condition of the Hot Work Permit. A current, portable, fully charged fire extinguisher shall be located with each person performing hot work and each fire watch. The Hot Work Permit shall be signed off by the appropriate personnel and maintained in the project file.

6.5 CONFINED SPACES

OSHA defines a confined space as having limited or restricted means for entry or exit, and is not designed for continuous employee occupancy. Confined spaces include, but are not limited to: vaults, tanks, manholes, wet-wells, pipelines, utility tunnels, etc.

The Awardee shall take measures [29 CFR 1910.146 (c)(5)] to ensure that atmospheric conditions in confined spaces are not hazardous to occupants. This can be accomplished by forcing a sufficient amount of clean air through the confined space and testing the atmosphere by using a portable certified, calibrated, atmosphere monitor that meets OSHA requirements [29 CFR 1910.146(c)(5)(ii)(C)]. The atmosphere monitor should record oxygen content, flammable gases and vapors and toxic air contaminants, such as the Industrial Scientific TMX-412.

6.6 LOCKOUT / TAGOUT POLICY

The AWTP Lockout / Tagout program is designed to set standards to help safeguard all employees from hazardous electrical or mechanical energy while they are performing service or maintenance on machines and equipment at the AWTP or any pump station. This program will also identify the practices and procedures to shut down and Lockout or Tagout machines and equipment. The Awardee shall be given a copy of the AWTP "LOCKOUT / TAGOUT POLICY AND PROCEDURES" instruction and shall make all of his employees and sub-contractors aware of this program.

No padlock (lockout) shall be removed except by the individual that installed it or if not available, by a City of Tampa AWTP team leader.

No tag (tagout) shall be removed except by the individual that installed it or if not available, by a City of Tampa AWTP team leader, except in an Emergency and the tag states "Do Not Use Unless in an Emergency". In that event, the Awardee shall notify the City of Tampa AWTP team leader, who will prepare the necessary follow up report.

6.7 TRENCH SAFETY

Any excavation deeper than four (4) feet shall adhere to the requirements contained in 29 CFR 1926.650 thru 652 and the Florida Trench Safety Act [Florida Statutes, ss 553.60 - 553.64].

6.8 OPEN FLAMES

No fires shall be allowed. No open flames necessary for any construction activity shall ever be left unattended. A current, portable, fully charged fire extinguisher shall be located with each activity requiring an open flame.

6.9 SPARKS

Any activity lasting more than 10 continuous minutes, that creates sparks, such as grinding or chipping shall have a dedicated fire watch in attendance. A current, portable, fully charged fire extinguisher shall be located with each activity creating sparks, regardless if a fire watch is required or not.

6.10 FIRST AID

The Awardee shall furnish appropriate First Aid Kits [29 CFR 1910.151] and shall be responsible to ensure his employees are properly trained to render first aid. If injurious corrosive materials are to be utilized, eye-wash and body wash facilities must be provided in the immediate area.

6.11 RELATED COSTS

All costs associated with these or any safety measures shall be included in the total lump sum contract price or the various contract item unit prices, as applicable, and no separate payment shall be made thereof.

7. PROJECT CLEAN-UP

Clean-up on this project is extremely important and the Awardee will be responsible for keeping the construction site neat and clean with debris being removed regularly as the work progresses. The City will require all construction areas to be cleaned up prior to final acceptance for payment purposes.

8. PROTECTION OF PROPERTY

The Awardee shall employ all means necessary to perform this work without damaging any of the buildings, structures, or equipment that is located in or around the areas where the work is taking place. The Awardee shall be responsible for restoring any areas or items that are damaged as a result of this work.

9. WARRANTY

The equipment and labor supplied as a result of this specification shall be warranted against defects in workmanship and material for a period of one year. Should any defect become apparent during the warranty period, the Awardee shall repair/replace the defective item(s) at no cost to the City.

10. PROJECT TIME OF COMPLETION

The Awardee shall meet with City's designee prior to the commencement of work in order to finalize the schedule and timeline to complete the services of this award. The City estimates that the project should be completed within 120 days of the Notice to Proceed. Any schedule changes shall be approved in writing by the City.

In the event that the Awardee can not complete the project within the 120 days of the Notice to Proceed, the City shall have the right to assess monetary deductions in the amount of \$200.00 per day for day 121 and greater.

SECTION 45 - ELECTRICAL

W-45.01 Scope of Electrical Work:

The work in this section consists of furnishing all labor, materials, equipment, transportation, and performing all operations required to support the installation and commissioning of the Hunter's Green Pumping Station Odor Control project. The work includes, but is not limited to, the following:

1. Submit working drawings, parts schedules and cut-sheets to the Engineer.
2. Furnish and install all equipment, controls and instrumentation as shown on the Plans and described in the Specifications.

Specifically:

- a. Disconnect and remove the existing conduit on the west side of the pumping station control enclosure. The three-pole 30-Amp circuit breaker shall be reused to feed the proposed odor control system.
- b. Provide and install conduits and conductors from the pumping station control panel to the proposed odor control panel as shown, specified, and required. Reuse the existing knockout to install proposed conduit and conductors. Neatly cover remaining knockout not being utilized and finish to match existing surface. Exposed conduit shall be aluminum rigid. Buried conduit shall be schedule 80 PVC.
- c. A 316 stainless steel channel erector system shall be used to mount and support the enclosures, boxes, conduits and other equipment. All mounting hardware, all thread, etc. shall be 316 stainless steel.
- d. All electrical work shall be performed in accordance with the 2008 National Electrical Code (NEC) and Chapter 5 of the City of Tampa Code.

W-45.02 General Requirements:

1. Codes: Any conflicts between the Specifications and Drawings or with the regulations of local codes, public utility company, or the National Electrical Code or the National Electrical Safety Code shall be promptly brought to the attention of the Engineer for clarification. All materials and work shall be in accordance with said standards.
2. Contract Documents: The drawings are generally diagrammatic not necessarily showing in detail all of the minor items and it shall not be interpreted to mean that any minor item required may be omitted. The Awardee shall make use of all the data in all of the Contract Documents and shall verify all information at the site which may influence his proposal. The Awardee shall obtain all necessary shop drawings and shall consult manufacturer's representatives during installation startup as needed.
3. Tests: The Awardee shall provide all necessary instruments and special apparatus to conduct any test that may be required to ensure that the system is free of all improper grounds and short circuits. These tests shall be conducted in the presence of the Engineer prior to final acceptance.
4. Guarantee: The Awardee shall submit a written guarantee to the City that all electrical work and material provided under this Award is free from defects for a period of one year after final acceptance of the job. There will be no additional charge to the City to repair or replace any such work which is found to be defective within the guarantee period.
5. Materials and Equipment: All materials and equipment shall be new and shall bear the manufacturer's name, date of manufacture, trade name, and the UL label. Equipment and materials shall be delivered to the site and stored in original containers, suitably sheltered from the elements, but readily accessible for inspection.

6. Test Documentation: Test all equipment and document tests.

W-45.03 Execution of Work:

All work shall be executed in a neat and workmanlike manner by experienced and capable electricians so as to present a neat installation upon completion.

Electrical work shall be coordinated so as not to interfere with or delay other construction operations.

The ends of all conduits shall be carefully reamed free from burrs after threading and before installation. All cuts shall be made square. All joints shall be made up tight. Care shall be taken to see that all control and power conduits are grounded as required by the NEC and Chapter 5 of the City of Tampa Code, Building and Construction Regulations.

SECTION 62 - CONTROL AND WIRING FOR PACKAGED UNITS

W-62.01 General

The electrical requirements for packaged equipment shall be supplied as complete factory assembled units that require only external connections for installation. They shall include all electrical features necessary for the proper functioning of the units.

W-62.02 Standards

All control components shall comply with the latest ANSI, IEEE, and NEMA standards wherever applicable. The assemblies shall be listed as complying with the requirements of U.L., Inc., or other recognized testing organizations, for the particular service to be encountered, where possible.

The conduit and wiring on each unit shall be in accordance with the Workmanship and Materials section headed "Conduit, Wire and Grounding," unless otherwise shown or directed.

The Awardee shall be responsible for providing conduits and wires for field wiring of all the control devices to the packaged units whether such control devices are specifically shown or not. The Awardee shall include in their bid cost for installation and connections of all electrical equipment like control panels, switches, auxiliary control devices, conduit and wires, and all other appurtenances as required.

W-62.03 Electrical Characteristics

Controls for each unit having motors of 1/2 horsepower or larger, except as noted, shall consist of combination circuit breaker and magnetic starter, along with all required control transformers, relays, timers, heaters, and other necessary incidentals to provide a complete functioning unit. Motors shall be designed for 480-volt, 3-phase, 60-Hertz operation with all controls at 115 volts or less.

Controls for each unit having motors of less than 1/2 horsepower shall be provided with 120-volt, single phase, toggle type thermal manual motor starter with neon pilot light.

Push buttons, pilot lights, etc., shall be 30mm in diameter and rated NEMA 4X. Pilot light lamp assemblies shall be full voltage (120VAC) LED type.

W-62.04 Enclosures

Principal control components shall be installed in NEMA rated enclosures as follows:

<u>AREA</u>	<u>ENCLOSURE</u>
All areas listed Class I, Group C, D	NEMA 7 - Explosion-proof
Outdoor and below grade elevation indoor	NEMA 4X - Watertight
Above grade indoor	NEMA 12 - Industrial

W-62.05 Auxiliary Control Devices:

Float switches, pressure switches, limit switches, thermo-stats, and other auxiliary control devices shall be of the heavy-duty type and rugged enough to satisfy the intended service. All contacts shall be rated at 10 amperes, 120 volts, 60 Hertz a-c, unless otherwise specified. Where adjustable, the devices shall be conveniently set and the setting secured firmly. Limit switches shall function in accordance with contact development charts.

W-62.06 Painting

Enclosures for electrical controls and connecting conduit shall be finished in accordance with the City of Tampa Wastewater Department's Workmanship and Materials section headed "Painting."

SECTION 76 - CONDUIT, WIRE, AND GROUNDING

W-76.01 General

Conduit, wire, and grounding includes furnishing and installing all conduits, underground ducts, bus ducts, wires, cables, and grounding systems as shown, specified, and required for a complete installation. The work includes the furnishing and installation of wires and cables in flexible and rigid conduits, underground ducts, all as required, shown, and specified.

Descriptive literature and technical information relative to conduits, wires, and grounding shall be submitted by the Awardee in conformance with the requirements of the General Provisions.

Awardee shall, with reference to approved drawings of equipment being installed, prepare detailed plans showing the layout and size of all conduits, ducts, bus ducts, cables and wires, connections between the point of service connection and all utilizing equipment. These plans shall be in sufficient detail to serve as working drawings for the installing electricians. The drawings shall be to scale not less than the Plans and be prepared as the work develops with approval by the Engineer before major steps of work are undertaken.

During construction, careful notes shall be kept of all deviations or changes in the layout or connection diagrams. Upon completion of the work, all working drawings shall be corrected and then marked "Record Drawings." Four sets of final prints, along with an equal number of bound instruction manuals and parts lists shall be given to the Engineer at the end of the job.

Excavation, backfill, form work, concrete, and reinforcing shall be in accordance with the applicable Workmanship and Materials sections.

W-76.02 Underground Ducts

In general, underground ducts for feeders and control wiring shall be plastic conduit. The plastic conduit shall be PVC, Schedule 80, and U.L. Inc. listed for direct burial, as manufactured by Carlon, Triangle, or Allied Tube. The conduit shall be buried a minimum of 18 inches below grade. Manufactured fitted plastic duct spacers shall be used for installation spacing.

Ducts installed under streets, roads, alleys, driveways, and parking lots shall be rigid aluminum conduit covered with not less than 40 mils of PVC, as manufactured by Robroy, or Ocal. The PVC material shall conform to the applicable ASTM standards. The conduit shall be buried a minimum of 24 inches below grade.

Each duct shall be carefully cleaned before and after installation. All inside surfaces shall be free from imperfections likely to injure the cable. After installation of complete duct runs in sizes 2 inches and larger, ducts shall be snaked with an approved tube cleaner equipped with an approved cylindrical mandrel of a diameter not less than 85 percent of the nominal diameter of the duct. Ducts through which the mandrel will not pass shall not be incorporated in the work. After snaking, the ends of dead-ended ducts shall be protected with standard conduit caps to prevent the entrance of water or other foreign matter.

Where ducts enter buildings or at stub-ups to equipment, transitions to aluminum conduits shall be made as noted and detailed. Where it is not otherwise shown, all ducts entering buildings and structures shall have transitions to aluminum conduit at least 5 feet from the outermost edge of the pile cap or footing supporting the outermost vertical wall of the building or structure.

W-76.03 Liquidtight Flexible Nonmetallic Conduit

All flexible conduits in non-classified areas shall be non-metallic, liquid-tight, and have a circular cross section. The conduit shall be resistant to oil, water, heat, sunlight, corrosion, most acids, ozone, alkali, strains, abrasions, and crushing. The conduit shall be rated for continuous use at 140 degrees F and be U.L. Inc. listed. Compatible liquid-tight nonmetallic fittings shall be used for conduit installation. The flexible conduit and fittings shall be as manufactured by Carlon, Kellems or K-Flex.

W-76.04 Metallic Conduit and Boxes

All conduit shall comply with the requirements of the U.L. Inc. Standards. Conduit shall be delivered to the job site in standard bundles having each length suitably marked with the manufacturer's name or trademark and bearing the label of the U.L. Inc. inspection service. The minimum size conduit service shall be 3/4 inch.

All exposed conduit within buildings and exposed on outdoor structures shall be rigid heavy wall, Alloy 6063T-42 aluminum conduit. Aluminum conduit shall conform to Fed. Spec. WW-C-540 and ANSI C80.5.

All conduit encased in building structures, exposed in the screen room/wet well area, or otherwise noted, shall be rigid aluminum covered with not less than 40 mils of PVC outside, and 2 mils of urethane inside, as manufactured by Robroy, or Ocal. The physical properties of the PVC and urethane materials shall conform to the applicable ASTM standards.

Cast aluminum shall be used for outlet boxes and fittings in aluminum conduit systems. Outlet and junction boxes shall be of proper dimensions for each application. Cast metal boxes shall have watertight gaskets and covers secured with nonferrous screws.

PVC coated boxes and fittings shall be used in PVC coated conduit systems.

Conduit fittings, such as elbows, tees, couplings, caps, bushings, nipples, and locknuts shall be threaded to provide watertight connections.

Where it is necessary to use electrical unions, Universal, Erikson, or equal conduit couplings shall be used.

W-76.05 Conduit Installation

All conduits shall be installed as required. The conduit system shall be installed complete with all accessories, fittings, and boxes, in an approved and workmanlike manner to provide proper raceways for electrical conductors.

The Awardee shall note that conduit runs shown are for the purpose of outlining the general method of routing the conduits to avoid interferences.

All other conduit shall be run exposed, except where shown otherwise.

Sizes not shown shall be one size larger than indicated in Tables 1 or 4, Chapter 9, of the NEC. Exposed conduit shall be run parallel to or at right angles from walls or beams and plumb on columns and on walls. Conduit shall not be run through beams except where approved by the Engineer or specifically detailed. Where possible, conduit shall be pitched slightly to drain to the outlet boxes or otherwise installed to avoid trapping of condensate. Where necessary to ensure drainage, Appleton Type ECD, Crouse-Hinds, 1/4-inch drain fitting shall be installed in the trapped conduit at low points.

Factory made bends or elbows shall be used wherever possible. Field bends shall be carefully made to prevent conduit damage or reduction in the internal area. The bending radius shall be not less than six times the nominal diameters of the conduit with carefully matched bends on parallel runs to present a neat appearance. The number of crossovers shall be kept to a minimum.

All conduit shall be reamed to remove burrs before installation. Aluminum conduit shall be cut with a saw to prevent reduction in internal area. All threads in steel conduit shall be given a coat of zinc dust in oil or other approved corrosion-preventive compound before making connections. Threads on aluminum conduit shall be given a coat of graphite or other approved compound. All connections and joints in all conduit runs shall be watertight and ensure a low resistance ground path in the conduit system. All conduit runs shall be swabbed to remove foreign matter before wires are pulled in. Conduit terminations in boxes, panels, switchboards, motor control centers, and other sheet metal enclosures shall be bonded together for grounding and be fitted with insulating bushings, O.Z./Gedney Type A, Thomas and Betts. Where grounding bushings are required by code or shown, O.Z./Gedney Type SBLG, Thomas and Betts, shall be furnished.

Conduit shall be neatly grouped where several lines follow a parallel course, and shall be well supported, using galvanized clips or hangers of the ring or trapeze type. Clips, hangers, and support rods shall be held by self-drilling anchors, power-driven fasteners, or steel channel insets in the concrete ceilings or walls. Perforated strap hangers will not be accepted.

Conduit runs that enter the building from outdoors, or that pass through refrigerated or air conditioned areas, are subject to moisture accumulation due to condensation. A pull box shall be provided in the conduit run near the point of temperature change to prevent trapping of moisture within the conduit system. A 1/4-inch weep hole shall be drilled in the bottom of the pull box. After the wires and cables are installed, the end of the conduit continuing into the warmer area shall be packed with a nonsetting sealing compound.

W-76.06 Conduit Connections to Equipment

The conduit system shall terminate at the terminal box or at the conduit connection point of electric motors, devices, and equipment. Terminations of conduits at such locations shall permit direct wire connections to the motors, devices, or equipment.

Conduit connections shall be made with rigid conduit if the equipment is fixed and not subject to adjustment, mechanical movement, or vibration. Rigid conduit connections shall have union fittings to permit removal of equipment without cutting or breaking the conduit.

Conduit connections shall be made with approved flexible nonmetallic conduit if the equipment is subject to adjustment, mechanical movement, or vibration. Flexible conduit connections shall be watertight.

W-76.07 Expansion Fittings

Expansion fittings shall be installed at all expansion joints and where required by codes. Conduit expansion fittings shall be Crouse-Hinds Type XD, O.Z./Gedney.

W-76.08 Terminal, Junction, and Pull Boxes

Junction and pull boxes shall be installed as shown and as required.

Surface-mounted junction and pull boxes, unless specified otherwise herein, shall be of cast aluminum complete with mounting lugs, threaded entry bosses and flange or rabbeted gasketed covers.

Surface-mounted junction and pull boxes which would exceed 50 pounds weight if cast or which are shown as fabricated sheet metal boxes shall be made of 1/8-inch sheet aluminum with sides return channel flanged around the cover opening or with approved welded angle or channel supporting frames. Sheet aluminum boxes shall be provided with mounting lugs or channels and with conduit termination hubs. All seams in sheet aluminum boxes shall be continuously welded and ground smooth. All surface boxes larger than 6 inches square shall be mounted a minimum of 3/4 inch clear of the mounting surface by means of offset lugs or support channels.

Fabricated junction and pull boxes which are partially or fully encased in concrete shall be made of 10-gauge sheet stainless steel and fabricated in a similar manner to the sheet aluminum pull boxes specified herein, complete with mounting lugs or channels and conduit termination hubs. Cast steel boxes shall be provided in smaller sizes where required for full or partial encasement in concrete.

All junction and pull boxes shall be provided with covers or doors as shown or required. Covers and doors shall be fabricated of materials equal in weight, gauge, structure, and metallic composition as the basic box. All covers shall be gasketed and held in place with nonferrous captive knurled head screw slot bolts. All pull and junction boxes shall be provided with hinged doors. Doors shall have continuous hinges, and 3-point catches with external handles and hasps for padlocks. All doors shall be gasketed.

All boxes shall be provided with partitions as shown and as required.

Fabricated boxes shall be NEMA 12 enclosures as manufactured by Hoffman or Hope.

W-76.09 Hazardous Areas

All conduit and equipment installed in or run through hazardous areas, as well as other electrical appurtenances installed therein, shall be installed to conform in every respect to Chapter 5 of the NEC for Class I, Division 1, Group D hazardous locations. All material installed in hazardous areas shall be listed as complying with the requirements of the U.L. Inc. for use in Class I, Group D atmospheres.

Sealing shall be provided for all conduits within and leaving hazardous areas as required.

W-76.10 Grounding System

A complete grounding system shall be in accordance with applicable ANSI, IEEE, and NEC Standards and local codes.

All noncurrent-carrying metal parts of the electrical wiring system shall be grounded. The grounding system shall include, but not be limited to, the following:

1. Motor control center controllers, ground bus, and enclosures.
2. All motor frames.
3. All conduit systems.
4. All mechanical equipment and structures.
5. Distribution and lighting panelboards.
6. Control, relay, and instrumentation panels.
7. Lighting fixtures and receptacles.
8. Fans, blowers, pumps, and similar equipment.
9. Hoist beams, cranes, and similar items.

A grounding connection from the transformer to the City water pipe shall be provided. The wire and conduit shall be attached to the City water pipe with a U.L. Inc. listed cast bronze U-bolt connector with silicon bronze bolts and nuts.

Motor frames shall be grounded by means of stranded, 600-volt insulated copper cables installed within the motor feeder conduit system. The cable shall be lug bolted to the motor terminal box and the ground bus of the motor control center serving the motor.

An equipment grounding conductor shall be installed in all electrical raceways, and shall be sized in accordance with Article 250-95 of the National Electrical Code (NEC).

Exposed or buried ground conductors shall be bare copper wires or bars of the proper sizes.

All exposed ground cables or bars shall be firmly and neatly supported in place at proper intervals. Where subjected to mechanical abuse, protective enclosures shall be provided.

Grounding conductors run in conduits with circuit conductors shall be stranded cable with 600-volt green TW, THW, or RHW Code insulation.

Stainless steel ground rods shall be 5/8-inch diameter with the length as required, and made up of a 10-foot section with 5-foot sections added as required. Rods shall be driven to permanently moist soil.

Connections to ground rods, transformer case ground bus bars, case grounds, bare ground grid conductors, and the like, shall be made by an exothermic welding process or by clamps specifically designed for this application.

Ground conductor connections to ground bus bars in motor control centers, and the like, shall be cable lug bolted terminations equal to line conductor terminations specified hereinafter.

Welds embedded in the ground or concrete shall be cleaned and painted with an asphaltum base paint.

Tests shall be conducted by the Awardee and witnessed by the Engineer to determine the ground impedance for the entire system. The test shall be accomplished by using a ground loop impedance tester. The result shall not exceed 2 ohms at any point of test. If necessary, additional ground rods shall be installed at locations approved by the Engineer.

Care shall be exercised to ensure good electrical connections between the conduits and metallic enclosures of switchgear, control centers, and the like. Grounding jumpers shall be installed where necessary to accomplish this purpose.

W-76.11 Wires and Cables - General

Wires and cables required for all systems shall be complete, connecting all equipment and control components. Conductors shall be of ample size, with suitable insulation as specified hereinafter.

W-76.12 600-Volt Wire and Cable - Conductors

All ground conductors and power, control, and lighting conductors shall be soft-drawn or annealed stranded copper wire meeting the requirements of ASTM B 3 or B 33. For lighting fixture and convenience outlet wiring only, conductors No. 10 AWG and smaller may be solid conductor. Conductors shall be sized to limit the maximum conductor temperature to less than 75 degrees C, except where specifically stated otherwise. Table 310-16 of the NEC shall be the guide in determining 600-volt conductor sizes. The minimum size of conductor for power and lighting wiring shall be No. 12 AWG.

W-76.13 600-Volt Power and Control Cable - Insulation

Low voltage circuits shall be wired with 600-volt insulated conductors, sized as shown, or as required by the actual load to be served, whichever is larger.

Insulation for 600-volt copper conductors No. 8 AWG and larger shall be cross-linked polyethylene compound, U.L. Inc. listed, NEC Type THWN, and shall be Okonite X-Olene, American.

Insulation for 600-volt copper conductors No. 10 AWG and smaller shall be cross-linked polyethylene compound, U.L. Inc. listed, NEC Type XHHW, and shall be Okonite, American.

W-76.14 600-Volt Instrumentation Cables - Insulation

Shielded two-conductor No. 16 AWG cables for instrumentation shall be properly stranded 600-volt insulated copper wire twisted cables as shown. Conductor insulation shall be polyethylene. Shields shall be overlapped metalized tape providing 100 percent coverage with tinned copper drain wire. Cable outer jacketing shall be of polyvinyl chloride. Cables shall be as manufactured by Belden, or Dekoron.

W-76.15 600-Volt Wire and Cable - Installation

The 600-volt wires and cables pulled into ducts and conduit shall be installed without the use of lubricants, except where such use is necessary and approved by the cable manufacturers and the Engineer. Wires and cables shall be carefully handled to avoid twists and kinks in the conductors or damage to the insulation. All trapped conduit and duct lines shall be swabbed to remove any accumulated moisture or debris before wires or cables are pulled in.

Cable reels shall be stored on concrete or other hard surface, or shall be lagged with 2 x 4 wood laggings providing 100 percent coverage.

No splicing will be permitted, except in junction boxes.

Lug bolting at terminals, devices, or bus bars shall be made up with a flat washer, a Belleville washer, and a locknut.

Lines of nylon or polypropylene, propelled by carbon dioxide or compressed air, shall be used to snake or pull wire and cable into conduits. Flat steel tapes or steel cables shall not be used.

W-76.16 600-Volt Wire and Cable - Splices and Terminations

Splices between copper conductors, Size No. 10 AWG and smaller, shall be made up with compression type butt connections. Splices between copper conductors, Size No. 8 AWG and larger, shall be made up with U.L. Inc. listed compression type tube connectors. Lug bolting at devices or bus bars shall be made up with a flat washer, a Belleville washer, and a locknut.

Splices and pigtail connections for lighting and receptacle wiring inside the buildings, No. 10 AWG and smaller, shall be made with a pre-insulated spring connectors.

Splices and lug terminations in 600-volt insulated cables shall be carefully taped and covered, using materials recommended by the cable manufacturer, to provide watertight insulation equal to that of the conductors.

Splices shall not be made within manholes unless specifically approved by the City.

W-76.17 600-Volt Wire and Cable - Tests

The 600-volt insulated cables shall be factory tested prior to shipment in accordance with IPCEA standards for the insulation specified.

The following 600-volt wires and cable shall be tested after installation but before final connections are made up:

1. All feeders from motor control centers to motors 30 horsepower and larger.
2. All feeders from variable speed drive units.
3. All feeders from motor control centers to lighting panels and dry-type transformers.

For the above listed cables, a test voltage of 1,500 volts ac shall be applied for a period of 1 minute between all conductors in the same conduit, and between each conductor and ground.

All tests shall be made at the Awardee's expense, and certification of the tests shall be submitted to the Engineer. If any failures occur during the tests, the Awardee shall replace the cable.

W-76.18 Identification of Circuits

All wires and cables shall be banded with an identifying number and color code at each end termination and at each splice point in junction boxes. The identifying number of each wire shall be determined at the point of circuit origin, and shall continue unchanged to the point of circuit termination. In each conduit system, the wire identifying numbers shall include the conduit designation with a numeral suffix. The numeral suffix shall start with No. 1 and continue as required.

Where conduits enter motor control centers, switchgear terminal cabinets, and the like, the identification tag shall be fastened to the wire bundle near the conduit termination. The tag shall be held by an adjustable, self-locking nylon "Ty-Rap" as manufactured by Thomas and Betts Company. The identifying tag shall be of aluminum, brass, rigid fiber, and shall be engraved, stamped, or painted with the scheduled conduit number.

The wire identifying numbers and color code shall be applied as PVC slip-on sleeves, properly fitted to the wire diameter. The sleeves shall be as manufactured by Brady Co., Thomas and Betts Company. Wires shall be color coded in conformance with the requirements of applicable codes.

W-76.19 Wire and Cable Connections to Equipment

Electrical connections shall be made to all equipment in strict accordance with the manufacturer's approved wiring diagrams, the Plans, or as approved by the Engineer. The Awardee shall be responsible for the accuracy of his work, and shall repair any damage and replace any damaged equipment resulting from erroneous connections.

W-76.20 Painting

Conduit and boxes shall be painted in accordance with the City of Tampa Wastewater Department's Workmanship and Materials section headed "Painting."

Where aluminum surfaces such as boxes, conduit, or structural supports come in contact with incompatible metals, lime, mortar, concrete, or other masonry materials, the contact areas shall be given one field coat of Koppers Metal Passivator No. 40 and one coat of Koppers Bitumastic Super Service Black or two coats of asphalt varnish conforming to Fed. Spec. TT-V-51. Awardee shall supply documentation, including MSDS documents and invoices for material purchased, to verify this requirement is met.

BIDDER'S AFFIDAVIT

Before me, the undersigned authority who is duly authorized by law to administer oaths and take acknowledgements, personally appeared

AFFIANT'S NAME

Who, after being duly cautioned and sworn, and being fully aware of the penalties of perjury, does hereby depose and declare, on his own behalf or as a representative on behalf of a partnership or corporation, or other entity that is the Bidder in the matter at hand, as follows:

1. That the Bidder, if a natural person, is of lawful age.
2. That if the Bidder is a partnership, or a corporation, or other legal person or entity recognized in the State of Florida, it has complied with all laws and ordinances governing the formation and continued existence of such entities, including but not limited to, if a Florida corporation, to the filing of its Articles of Incorporation with the Florida Secretary of State and if a corporation incorporated under the laws of a state other than Florida, that it is duly authorized to do business in the State of Florida; that it is currently an active corporation or entity fully authorized to do business; and that the undersigned is representative of the corporation or entity authorized to make this affirmation and declaration and who has the power to bind said corporation or entity.
3. That if the Bidder is operating under a fictitious name, Bidder has currently complied with and any and all laws and procedures governing the operation of businesses under fictitious names in the State of Florida;
4. That the Bidder has not submitted a rigged Bid, nor engaged in collusive bidding, or a collusive bidding arrangement, or fraudulent bidding, or entered into a conspiracy in connection with this bid with any other natural person, partnership, corporation or other entity making a bid for the same purpose. The Bidder has not entered into any understanding or agreement with any other person or entity where one or more such persons or entities agrees not to bid or fixing the prices to be bid.
5. In the event that the City determines that the Bidder has participated in any collusive, deceptive or fraudulent practices in derogation of the statements in this Affidavit the City, in addition to any other remedy it may exercise, will have the right to debar the Bidder. The contract let under such circumstances shall be deemed invalid.
6. That the Bidder is not in arrears to the City of Tampa upon debt or contract and is not in default, as surety or otherwise, of any obligation to the City, Hillsborough County or the State of Florida
7. That no officer or employee of the City, either individually or through any firm, corporation or business of which he/she is a stockholder or holds office, shall receive any substantial benefit or profit out of the contract or award to this Bidder; nor does the Bidder know of any City officer or employee having any financial interest in assisting the Bidder to obtain, or in any other way effecting, the award of the contract to this Bidder.
8. That, by submitting this bid, the Bidder certifies that he/she has fully read and understands the bid method and has full knowledge of the scope, nature, and quality of work to be performed or the services to be rendered.

FURTHER AAFIANT SAYETH NOT.

Bidder: Complete the applicable Acknowledgement for An Individual Acting In His Own Right, A Partnership or A Corporation, according to your firm type.

FOR AN INDIVIDUAL ACTING IN HIS OWN RIGHT

State of _____
County of _____

The foregoing instrument was acknowledged before me this ____ day of _____
20__, by _____, who is personally known to me or who has produced identification and who
did (did not) take an oath.

Signature of Notary Public

Signature of Affiant

Notary Public
State of: _____
My Commission
Expires: _____

Printed, typed or stamped
Commissioned name of notary public

Printed or typed name of Affiant

FOR A PARTNERSHIP

State of _____
County of _____

The foregoing instrument was acknowledged before me this ____ day of _____
20__, by _____, who is a partner on behalf of _____, a
partnership. He/She is personally known to me or has produced identification and did (did not) take an oath.

Signature of Notary Public

Signature of Affiant

Notary Public
State of: _____
My Commission
Expires: _____

Printed, typed or stamped
Commissioned name of notary public

Printed or typed name of Affiant

FOR A CORPORATION

State of _____
County of _____

The foregoing instrument was acknowledged before me this ____ day of _____ 20____, by _____,
who is _____
(Title)

of _____
(Corporation Name)

a corporation under the laws of the State of _____, on behalf of the said corporation.
He/She is personally known to me or who has produced identification and who did (did not) take an oath.

Signature of Notary Public

Signature of Affiant

Notary Public
State of: _____
My Commission
Expires: _____

Printed, typed or stamped
Commissioned name of notary public

Printed or typed name of Affiant

**BID RESPONSE FOR
REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM**

Please Print or Type

We the undersigned, as Bidders, hereby declare that we have carefully read this proposal or bid and the provisions, terms and conditions concerning the equipment, materials, supplies or services as called for, and with full knowledge and understanding of the requirements and conditions, do hereby agree to furnish and to deliver as indicated, FOB, City Facility Location, with all transportation charges prepaid, and for the prices quoted thereon as follows.

TOTAL COST OF REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM (INCLUDING LABOR, MATERIAL, AND EQUIPMENT, PER TECHNICAL SPECIFICATIONS):	TOTAL PRICE \$ _____
--	------------------------------------

Firm Name: _____

Type Organization: ☐ Individual ☐ Small Business ☐ Non-Profit
 ☐ Partnership ☐ Corporation ☐ Joint Venture

Business is licensed (unless exempt by applicable law), permitted and certified to do business in the State of Florida:
☐ Yes ☐ No License # _____

State of Florida Corporation ID # (from Secretary of State): _____

State of Florida Fictitious Name Reg. # (from Secretary of State): _____

Authorized
Representative's Name: _____

Authorized
Representative's Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Telephone No.: _____ Fax No.: _____ Email: _____

Federal I.D. #: _____ Invoice Terms: NET 30

Minority Business Status: ☐ Black ☐ Hispanic ☐ Woman

Is your business certified as a minority business with any government agency? ☐ Yes ☐ No. If yes, please list below:

Agency Name	Certification Number	Expiration Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Authorized Signature: _____ Date: _____



Instructions for completing The Sub-(Contractors/Consultants/ Suppliers) Solicited Form

This form must be submitted with all bids or proposals. All subcontractors solicited and subcontractors from whom unsolicited quotations were received must be included on this form. The instructions that directly follow are for the form heading information pertaining to the project and prime.

Contract No. This is the number assigned by the City of Tampa for the bid or proposal

Contract Name. This is the name of the contract assigned by the City of Tampa for the bid or proposal.

Contractor Name. The name of your business.

Address. The physical address of your business.

Federal ID. FIN. A number assigned to your business for tax reporting purposes.

Phone. Telephone number to contact business.

Fax. Fax number for business.

Email. Provide email address for electronic correspondence.

No Subcontracting Opportunities existed for this Contract. Checking the box indicates that your business will not use subcontractors and will self-perform all work. If during the administration of the contract you use subcontractors, the “Sub-(Contractors/Consultants/Suppliers) Payments” form must be submitted with your invoices.

No Firms were contracted because. Provide brief explanation as to why no subcontractors were used.

See attached documents. Check if you have provided any additional documentation relating to the payment data.

The following instructions are for information of any and all subcontractors solicited.

SLBE. Enter “S” for firms Certified by the City of Tampa as Small Local Business Enterprises. Change order.

Federal ID. FIN. A number assigned to a business for tax reporting purposes. This information is critical in proper identification of the subcontractor.

Company Name, Address, Phone & Fax. Provide company information for verification of payments.

Type of Ownership. Indicate the Ethnicity and Gender of the owner of the subcontracting business.

Trade, Services, or Materials Indicate the trade, service, or material provided by the subcontractor. NIGP codes are listed at top section of document.

Contract Method L=letter, F=fax, E=Email, P=Phone. Indicate with letter the method of soliciting for bid.

Quote or Resp. (response) Rec’d (received) Y/N. Indicate “Y” Yes if you received a quotation or if you received a response to your solicitation. Indicate “N” No if you received no response to your solicitation from the subcontractor.

If any additional information is required or you have any questions, you may call the Minority Business Development Office at (813) 274-5522.



Contractor Name: _____ Address _____

Federal ID _____ Phone _____ Fax _____ Email _____

NIGP Code General Categories: Buildings = 909, General = 912, Heavy = 913, Trades = 914, Architects = 906, Engineers & Surveyors = 925, Supplier = 912-77

[illegible]

Total Subcontract/Supplier Utilization \$

Total SLBE Utilization \$ _____

Percent SLBE Utilization	%
--------------------------	---

Certification: It is hereby certified that the following information is a true and accurate account of utilization for sub - contracting opportunities on this contract.

Signed _____ Name/Title _____ Date: _____

MBD 20 rev. 07/31/08 Pg of

Instructions for completing The Sub-(Contractors/Consultants/ Suppliers) to be Utilized Form

This form must be submitted with all bids or proposals if subcontracting will be performed. All subcontractors projected to be utilized must be included on this form.

Contract No. This is the number assigned by the City of Tampa for the bid or proposal

Contract Name. This is the name of the contract assigned by the City of Tampa for the bid or proposal.

Contractor Name. The name of your business.

Address. The physical address of your business.

Federal ID. FIN. A number assigned to your business for tax reporting purposes.

Phone. Telephone number to contact business.

Fax. Fax number for business.

Email. Provide email address for electronic correspondence.

See attached documents. Check if you have provided any additional documentation relating to the payment data.

The following instructions are for information of any and all subcontractors solicited.

Federal ID. FIN. A number assigned to a business for tax reporting purposes. This information is critical in proper identification of the subcontractor.

SLBE. Enter “S” for firms Certified by the City as Small Local Business Enterprises.

Company Name, Address, Phone & Fax. Provide company information for verification of payments.

Type of Ownership. Indicate the Ethnicity and Gender of the owner of the subcontracting business.

Trade, Services, or Materials (NIGP code if Known) Indicate the trade, service, or material provided by the subcontractor. NIGP codes are available at <http://www.tampagov.net/mbd>.

Amount of Quote, Letters of Intent (required for Women/Minority Business Enterprises)

Percent of Contract. Indicate the percent of the total contract price the subcontract(s) represent.

Total Subcontract/Supplier Utilization. – Provide total dollar amount of all subcontractors/suppliers projected to be used for the contract.

Total SLBE Utilization. Provide total dollar amount for all projected SLBE subcontractors/Suppliers used for this contract.

Percent SLBE Utilization. Total amount allocated to SLBEs divided by the total bid amount.

If any additional information is required or you have any questions, you may call the Minority Business Development Office at (813) 274-5522.



City of Tampa - Sub-(Contractors/Consultants/Suppliers) Payments

[] Partial [] Final

Contract No.: **11-P-00431** WO#,(if any) _____ Contract Name: REPLACEMENT OF HUNTER'S GREEN PUMPING STATION ODOR CONTROL SYSTEM #71051911

Contractor Name: _____ Address _____

Federal ID _____ Phone _____ Fax _____ Email _____

GC Pay Period _____ Payment Request/Invoice Number: _____ City Department: _____

Total Amount Requested for pay period: _____ Total Contract Amount(including change orders): _____

Type of Ownership - (F=Female M=Male), BF BM = African Am., HF HM = Hispanic Am., AF AM = Asian Am., NF NM = Native Am., CF CM = Caucasian S = SLBE

Type	Company Name Address Phone & Fax	Total Sub Contract Or PO Amount	Dollar Amount Previously Paid	\$ To Be Paid For This Period
Trade/Work Activity				Sub Pay Period Ending Date
☐ Sub ☐ Supplier Federal ID				
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$

Certification: I hereby certify that the above information is a true and accurate account of payments to sub –contractors/consultants on this contract.

Signed _____ Name/Title _____ Date: _____

DMI form 30 (rev. 02/02/09) Pg ___ of ___ [] See attached documents

Instructions for completing The Sub-(Contractors/Consultants/ Suppliers) Payment Form

This form must be submitted with all invoicing or payment requests where there has been subcontracting rendered for the pay period. If applicable, after payment has been made to the subcontractor, “Waiver and Release of Lien upon Progress Payment”, “Affidavit of Contractor in Connection with Final Payment”, or an affidavit of payment must be submitted with the amount paid for the pay period. The following will detail what data is required for this form. The instructions that directly follow are for the form heading information pertaining to the project and prime.

Contract No. This is the number assigned by the City of Tampa for the bid or proposal

W.O.# If the report covers a work order number (W.O.#) for the contract, please indicate it in that space.

Contract Name. This is the name of the contract assigned by the City of Tampa for the bid or proposal.

Contractor Name. The name of your business.

Address. The physical address of your business.

Federal ID. A number assigned to a business for tax reporting purposes.

Phone. Telephone number to contact business.

Fax. Fax number for business.

Email. Provide email address for electronic correspondence.

Pay Period. Provide start and finish dates for pay period. (e.g. 05/01/07 – 05/31/07)

Payment Request/Invoice Number. Provide sequence number for payment requests. (ex. Payment one, write 1 in space, payment three, write 3 in space provided.)

City Department. The City of Tampa department to which the contract pertains.

Total Amount Requested for pay period. Provide all dollars you are expecting to receive for the pay period.

Total Contract Amount (including change orders). Provide expected total contract amount. This includes any change orders that may increase or decrease the original contract amount.

Signed/Name/Title/Date. This is your certification that the information provided on the form is accurate.

See attached documents. Check if you have provided any additional documentation relating to the payment data. Located at the bottom middle of the form.

Partial Payment. Check if the payment period is a partial payment, not a final payment. Located at the top right of the form.

Final Payment. Check if this period is the final payment period. Located at the top right of the form.

The following instructions are for information of any and all subcontractors used for the pay period.

(Type) of Ownership. Indicate the Ethnicity and Gender of the owner of the subcontracting business or SLBE.

Trade/Work Activity. Indicate the trade, service, or material provided by the subcontractor.

SubContractor/SubConsultant/Supplier. Please indicate status of firm on this contract.

Federal ID. A number assigned to a business for tax reporting purposes. This information is critical in proper identification of the subcontractor.

Company Name, Address, Phone & Fax. Provide company information for verification of payments.

Total Subcontract Amount. Provide total amount of subcontract for subcontractor including change orders.

Dollar Amount Previously Paid. Indicate all dollars paid to a subcontractor as of the payment request. (Do not include amount to be paid for this period)

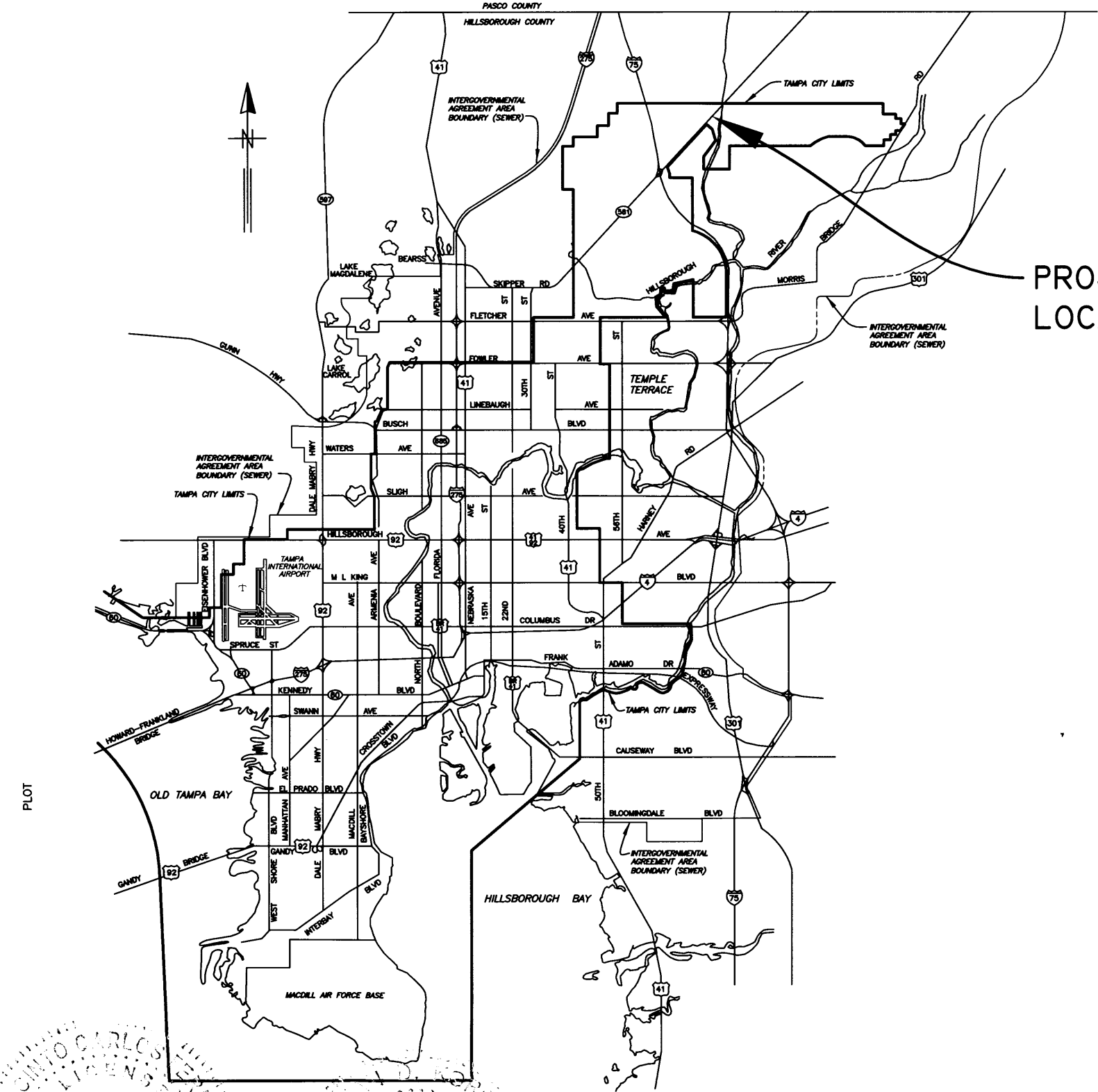
\$ To Be Paid for this Period. Provide dollar amount of dollars requested for the pay period.

Sub Pay Period Ending Date. Provide date for which subcontractor invoiced performed work.

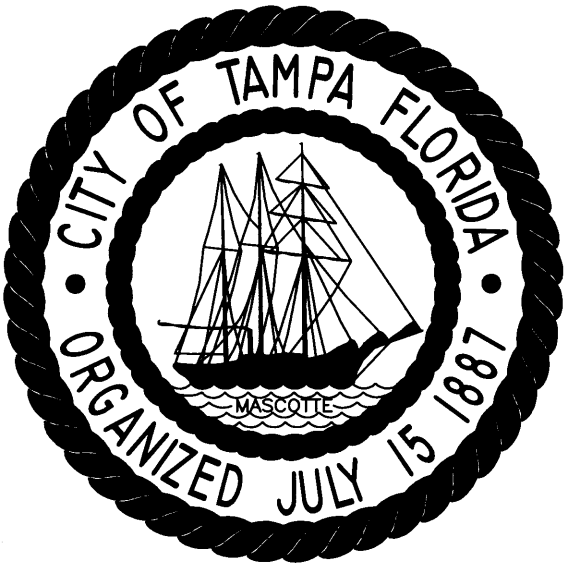
Forms must be signed and dated or will be considered incomplete. The company authorized representative must sign and certify the information is true and accurate. Failure to sign this document or return the document unsigned can be cause for determining a company is in non-compliance of Ordinance 2008-89.

If any additional information is required or you have any questions, you may call the Minority Business Development Office at (813) 274-5522.

LOCATION MAP



CITY of TAMPA

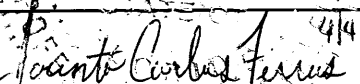
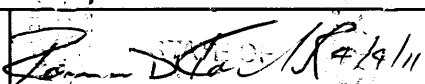


PROJECT
LOCATION

WASTEWATER DEPARTMENT

PLANS FOR
HUNTERS GREEN (IA) PUMP STATION
ODOR CONTROL

User: SSH5 Drawing Name: K:\Greg Peoples\Projects\5548\Drawings\01 COVER.dwg
Layout: Apr 04, 2011 - 9:58am CTB - WW.CTB

 JACINTO CARLOS FERRAS, P.E. #49454 DESIGN DIVISION HEAD WASTEWATER DEPARTMENT	 ROMAN D. KORCHAK, P.E. #42626 ELECTRICAL SECTION HEAD WASTEWATER DEPARTMENT	No.	DATE	REVISIONS	DES: CLB	CITY of TAMPA WASTEWATER DEPARTMENT	HUNTERS GREEN (IA) PUMP STATION ODOR CONTROL COVER SHEET	W.O. 5
		3			DRN: GAP			SHEET
		2			CKD: JF			01
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GENERAL NOTES

- 1. THE SCOPE OF THIS PROJECT SHALL CONSIST OF THE REMOVAL OF THE EXISTING ODOR CONTROL SYSTEM AND FURNISHING AND INSTALLING A BIOLOGICAL ODOR CONTROL SYSTEM AT HUNTERS GREEN PUMP STATION AND ALL APPURTENANCES ASSOCIATED WITH THE COMPLETION OF THE PROJECT.
- 2. THE PROPOSED ODOR CONTROL UNIT SHALL BE A PRE-ASSEMBLED NEW BIOLOGICAL ODOR CONTROL SYSTEM DESIGNED AND FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL FIELD MEASUREMENTS AND VERIFYING THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING PIPING, STRUCTURES, AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO SUBMITTAL OF SHOP DRAWINGS OR STARTING CONSTRUCTION.
- 4. ALL OTHER EQUIPMENT AND PIPING, ETC. INDICATED FOR REMOVAL SHALL BE REMOVED AND PROPERLY DISPOSED BY THE CONTRACTOR.
- 5. THE CONTRACTOR SHALL SUBMIT A DETAILED LAYOUT OF THE PROPOSED EQUIPMENT FOR THE APPROVAL BY THE ENGINEER. THE EQUIPMENT SHALL BE ARRANGED TO PROVIDE MAXIMUM ACCESS TO ALL COMPONENTS.
- 6. THE CONTRACTOR SHALL ARRANGE THE WORK TO MINIMIZE THE TIME THAT THE PUMPING STATION WILL NOT HAVE AN ODOR CONTROL SYSTEM IN OPERATION. ALL EQUIPMENT FOR THE NEW SYSTEM MUST BE APPROVED BY THE ENGINEER, FABRICATED, AND DELIVERED TO THE SITE PRIOR TO REMOVING EXISTING ODOR CONTROL EQUIPMENT AND BEGINNING CONSTRUCTION.
- 7. THE ODOR CONTROL SYSTEM SHALL BE SECURELY MOUNTED TO THE EXISTING HOUSE KEEPING PAD WHERE THE EXISTING ODOR CONTROL UNIT IS LOCATED.
- 8. PROPOSED PIPING AND FITTINGS SHALL BE CPVC (SCHEDULE 80) PIPE OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.
- 9. ALL PIPING, FITTINGS AND VALVES SHALL BE PROPERLY SUPPORTED.
- 10. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
- 11. ALL SUBMITTALS AND SHOP DRAWINGS SHALL BE ORIGINALS OR HIGH QUALITY COPIES (EASILY READABLE). NO FAXED SHEETS OR POOR QUALITY COPIES WILL BE ACCEPTED FOR SUBMITTAL REVIEW.
- 12. CONTRACTOR SHALL RESTORE ALL LANDSCAPING, SODDING, AND PAVEMENT THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION TO ITS ORIGINAL CONDITION OR BETTER.
- 13. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH WASTEWATER PERSONNEL AND PUMPING STATION OPERATIONS.

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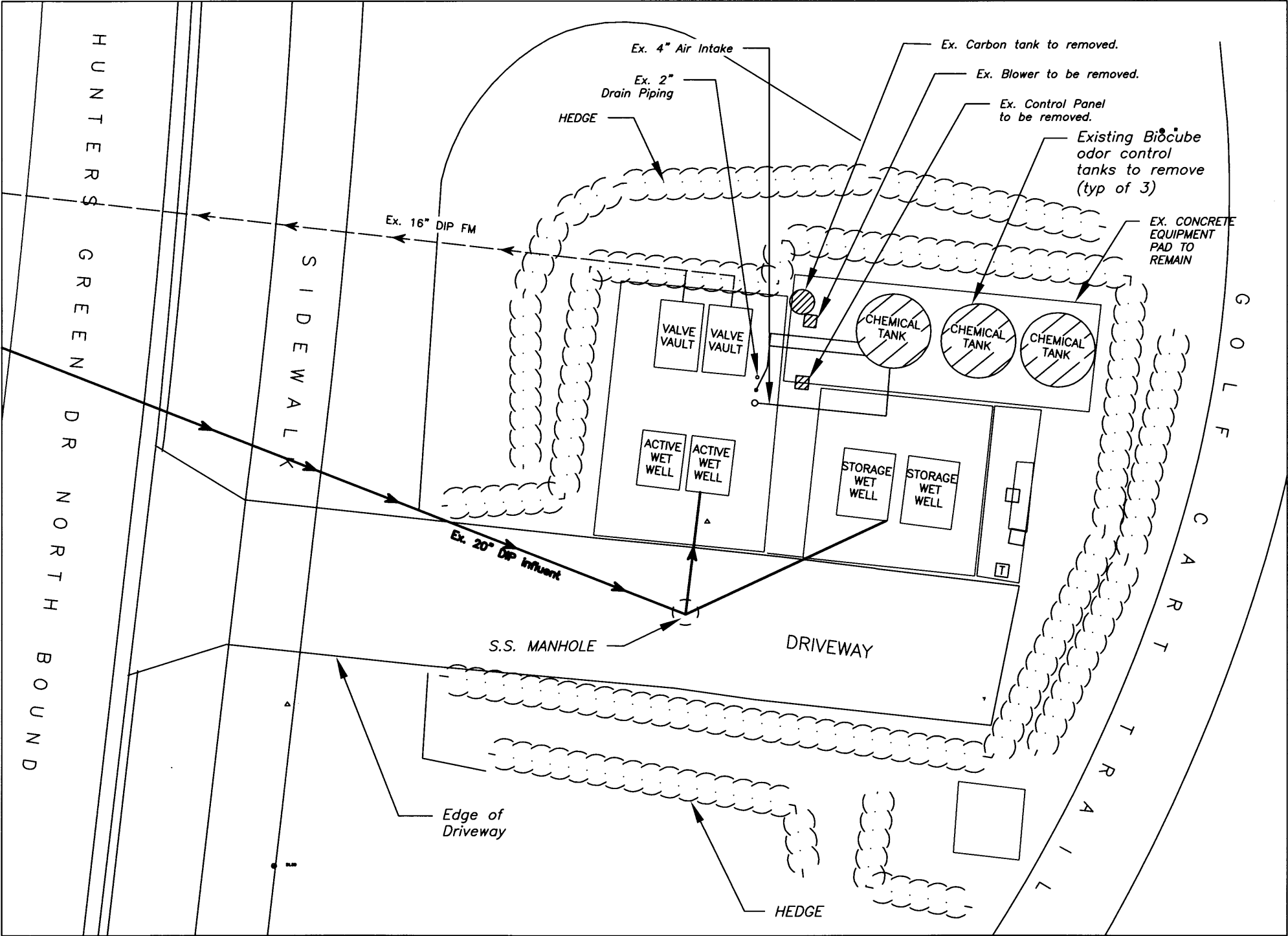
JACINTO CARLOS FERRAS, P.E. #49454
DESIGN DIVISION HEAD
WASTEWATER DEPARTMENT

DES: DR/RJ
DRN: GAB-
CKD: JF
DATE: 4/4/11

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WASTEWATER DEPARTMENT

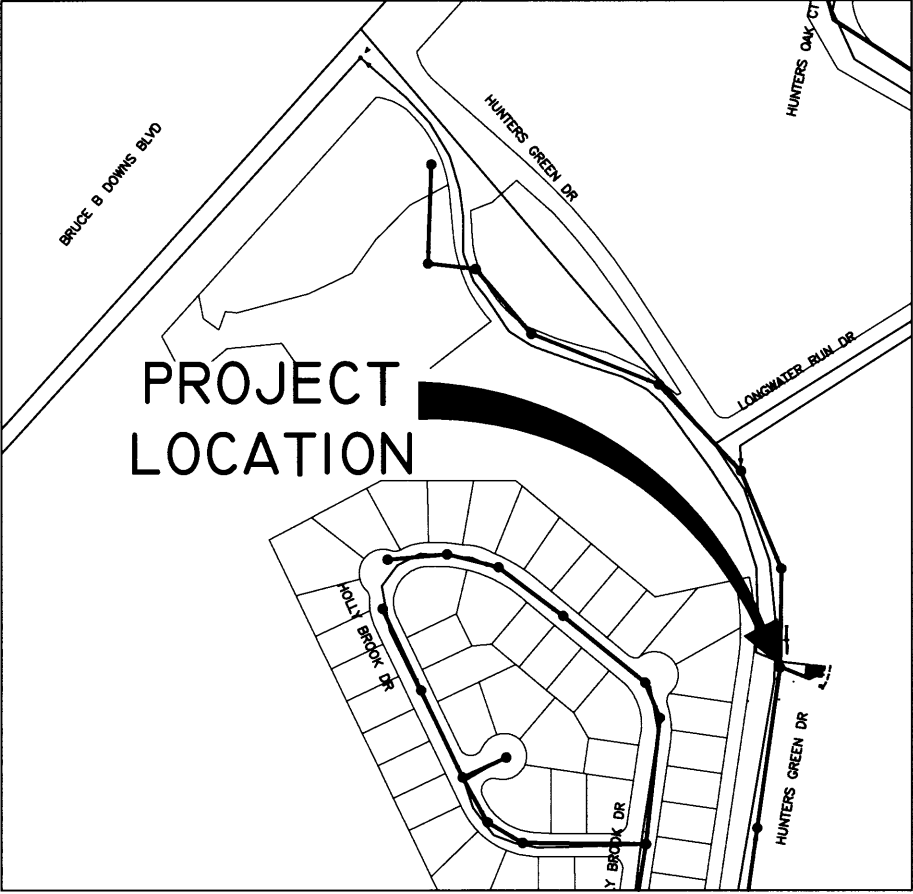
HUNTERS GREEN (1A) PUMP STATION
ODOR CONTROL
GENERAL NOTES

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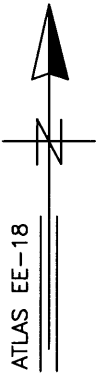
EXISTING SITE PLAN

SCALE 1:10



LOCATION MAP

SCALE 1:400



DENOTES PIPING, EQUIPMENT AND OTHER ITEMS THAT ARE TO BE REMOVED.

NOTE:

Portions of existing piping for the Biocube Odor Control Unit is not shown for clarity. All piping for the existing unit shall be removed. Contractor shall determine magnitude of removal at on site pre-bid meeting.

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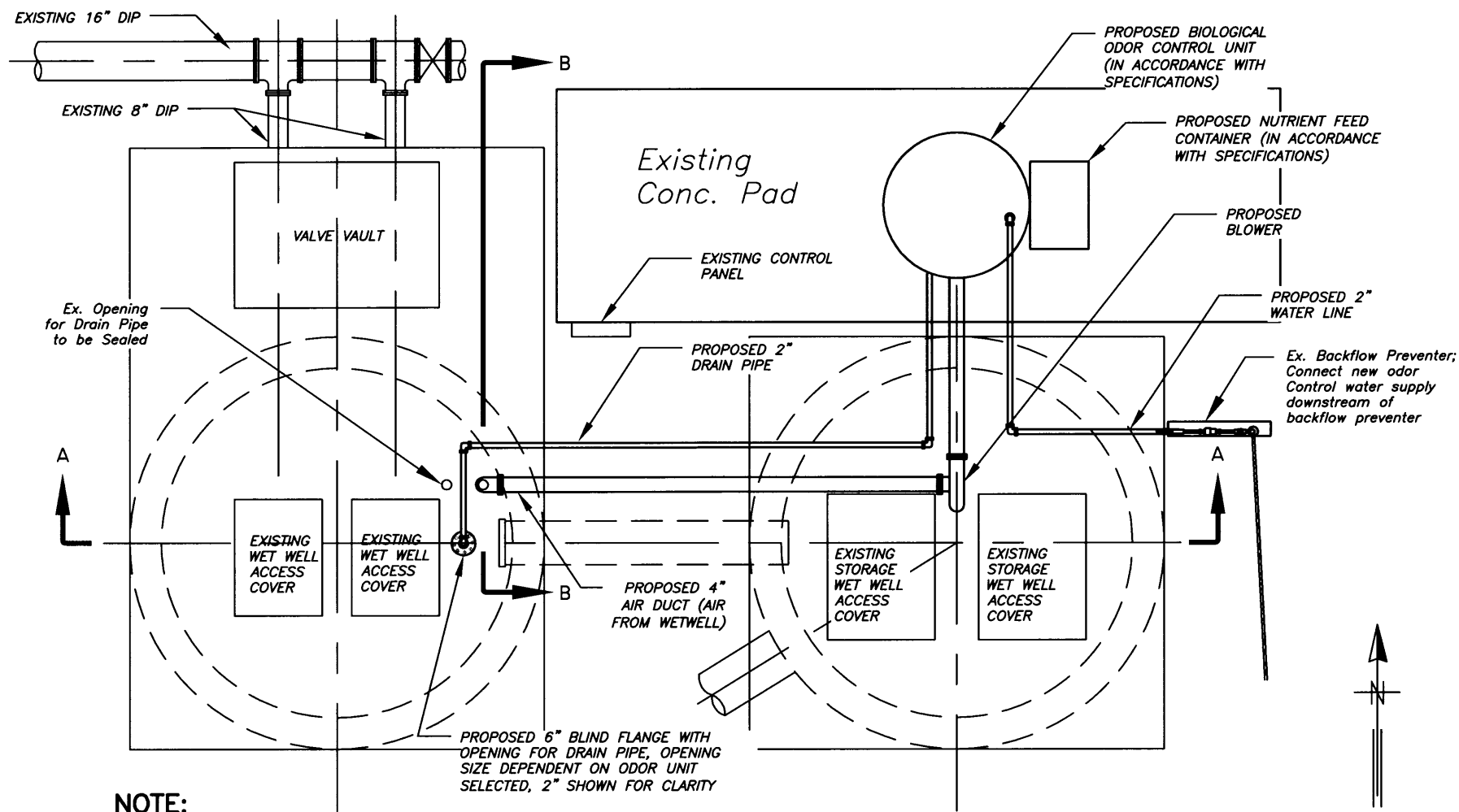
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HUNTERS GREEN (1A) PUMP STATION
ODOR CONTROL
EXISTING SITE PLAN

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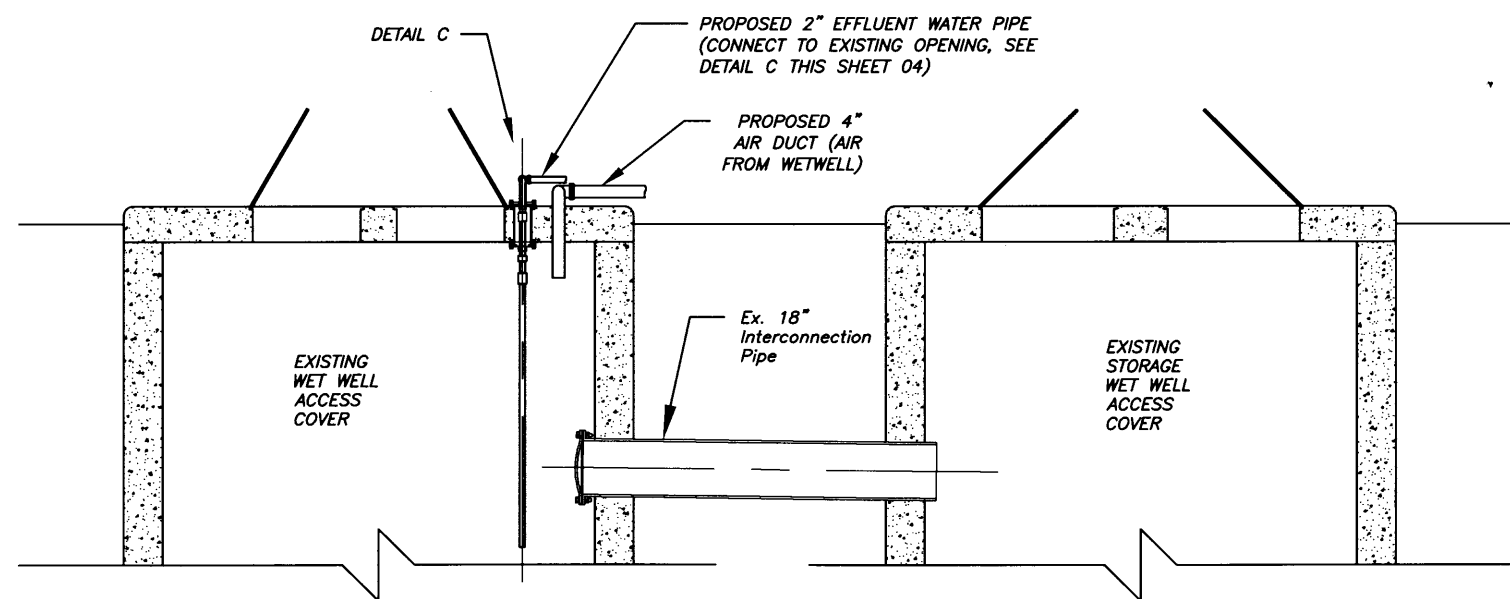


NOTE:

ALL LOCATION AND SIZES FOR THE PROPOSED PIPE AND FITTINGS ARE APPROXIMATE AND ARE DEPENDENT ON BIOLOGICAL ODOR CONTROL UNIT SELECTED.

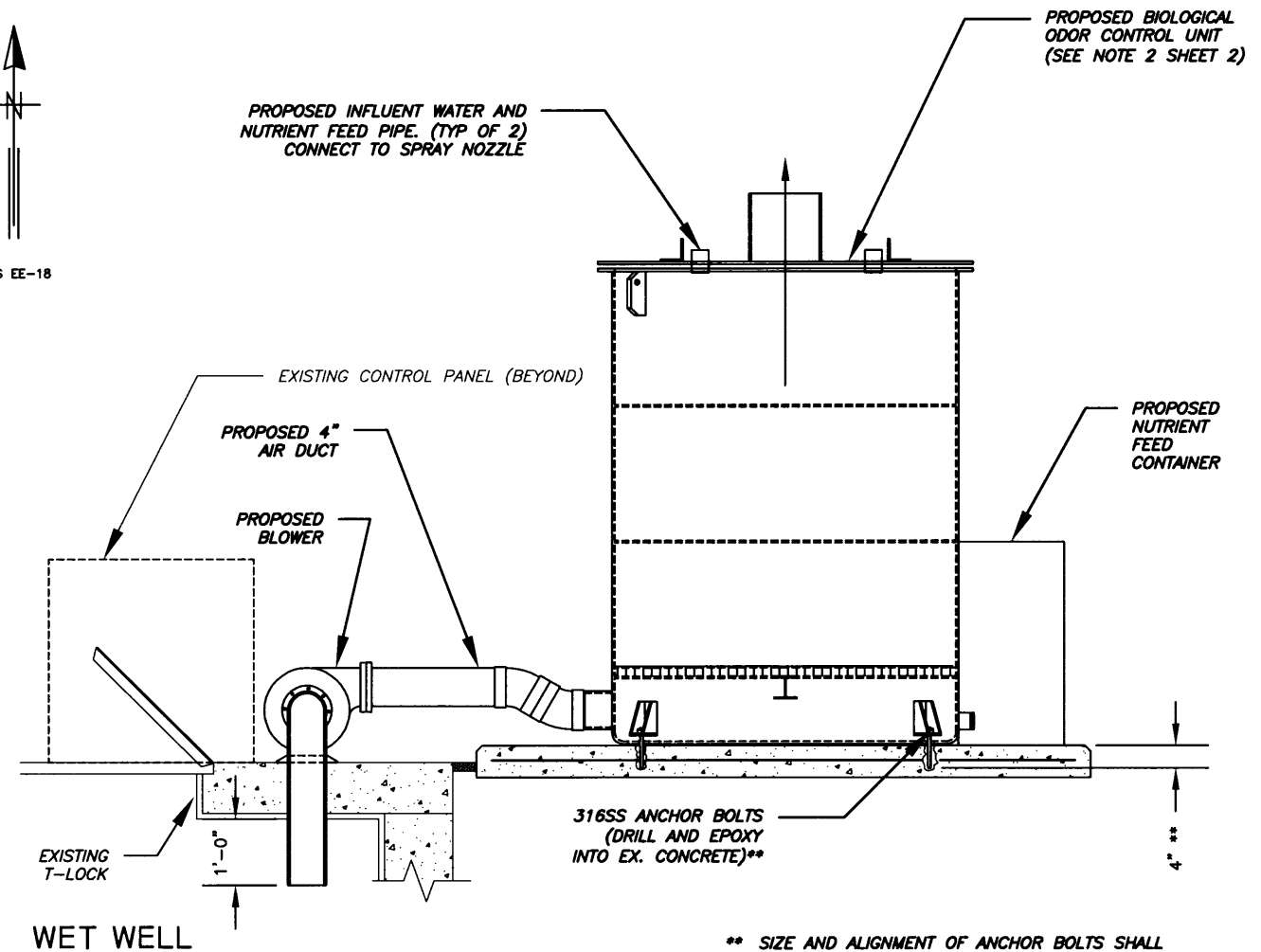
PLAN VIEW

SCALE: 3/16" = 1'-0"



SECTION A-A

SCALE: 3/16" = 1'-0"



SECTION B-B

SCALE: 3/8" = 1'-0"

** SIZE AND ALIGNMENT OF ANCHOR BOLTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER (4" MIN EMBEDMENT)

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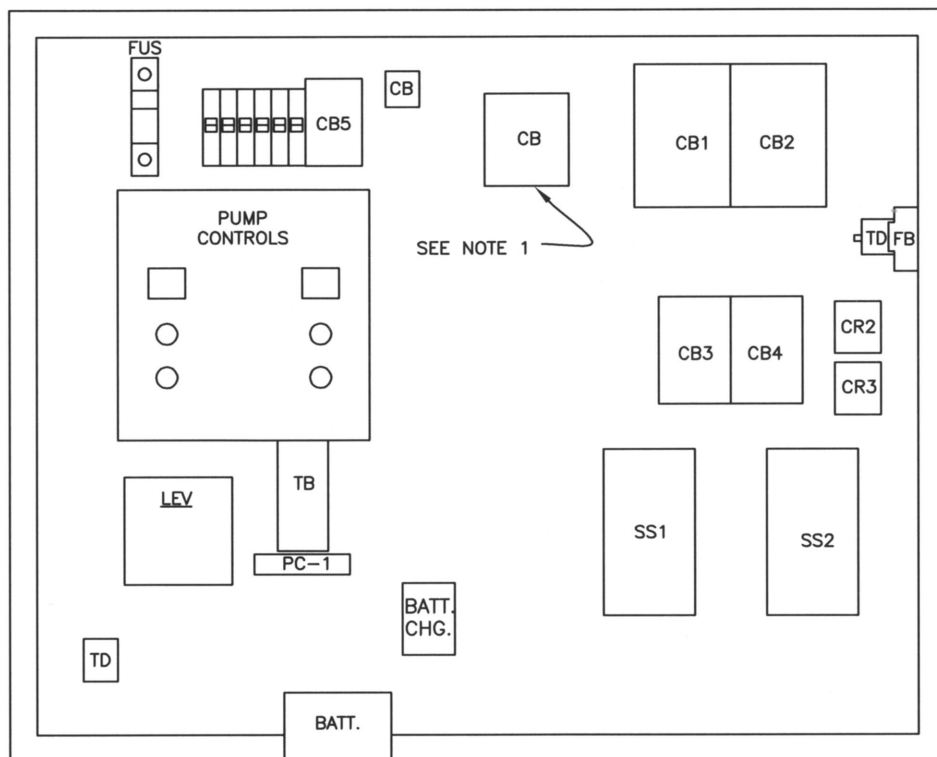
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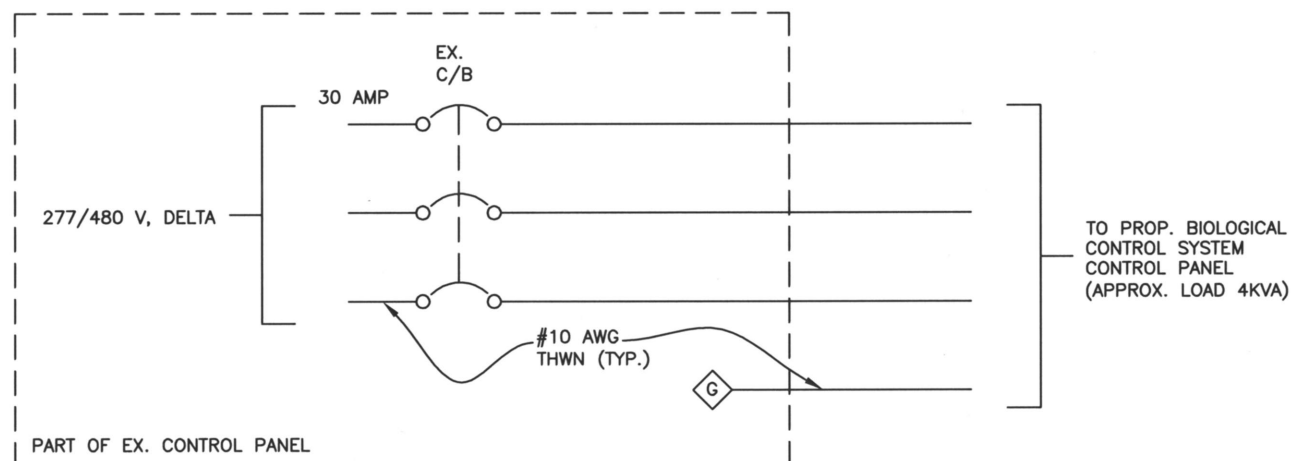
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**CONTROL PANEL ENCLOSURE - FRONT
INSIDE VIEW**

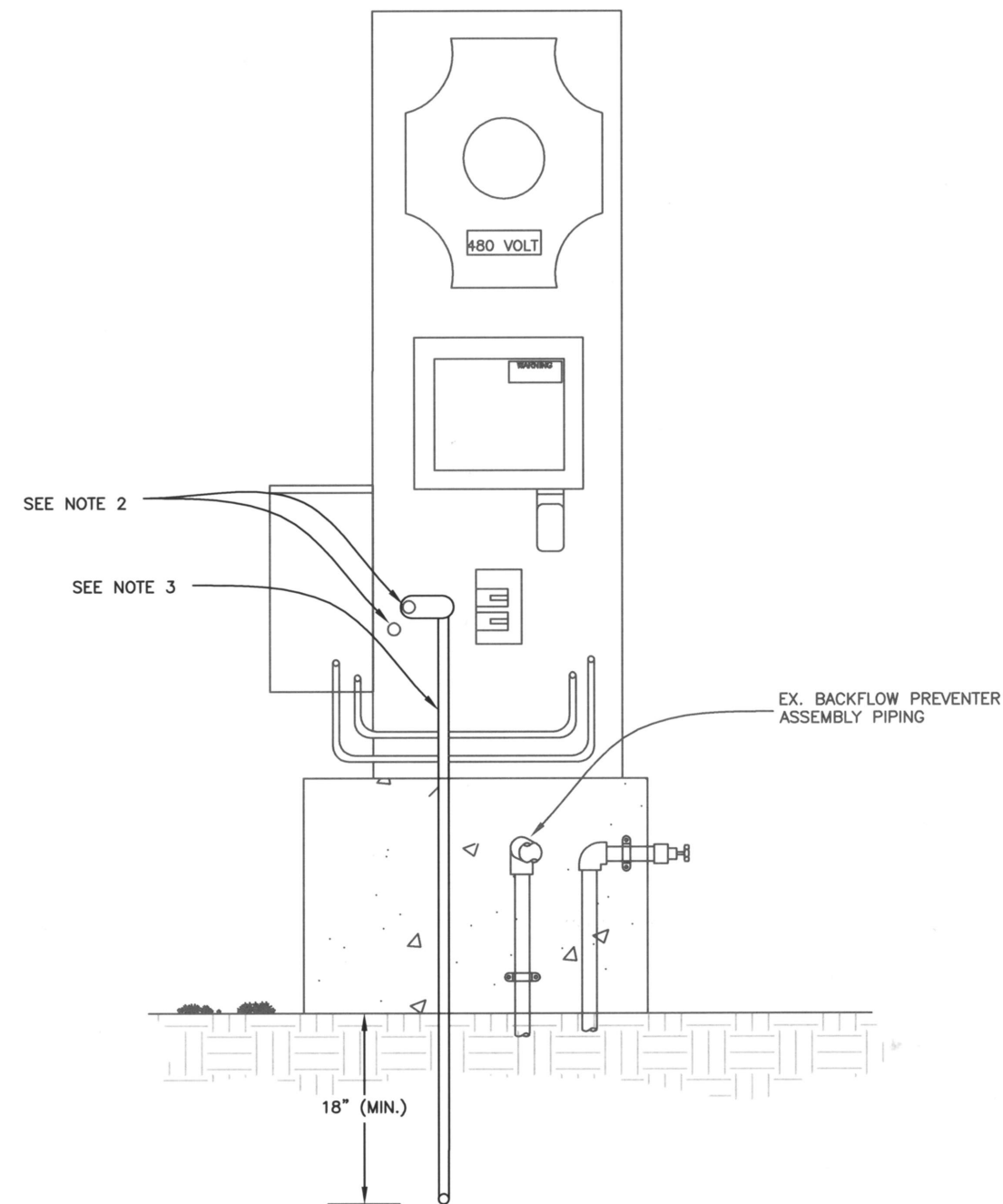
COMPONENTS ARE EXISTING UNLESS OTHERWISE NOTED (UON)
NO SCALE



SCHEMATIC DIAGRAM

NOTES:

1. REWIRE EXISTING 30-AMP, 3-POLE CIRCUIT BREAKER TO PROPOSED BIOLOGICAL ODOR CONTROL SYSTEM.
2. REMOVE EXISTING CONDUIT AND CONDUCTORS FROM EXISTING ODOR CONTROL PANEL TO EXISTING CONTROL ENCLOSURE. REUSE EXISTING KNOCKOUT TO INSTALL PROPOSED CONDUIT AND CONDUCTORS. NEATLY COVER REMAINING KNOCKOUT NOT BEING UTILIZED AND FINISH TO MATCH EXISTING SURFACE.
3. CONDUIT AND CONDUCTORS TO PROPOSED ODOR CONTROL PANEL. PROVIDE AND INSTALL 3/4" ALUMINUM RIGID CONDUIT WHERE EXPOSED AT BOTH ENDS OF RUN. TRANSITIONS TO SCHEDULE 80 PVC CONDUIT SHALL BE MADE PRIOR TO THE BURIED HORIZONTAL RUN. COAT ALUMINUM CONDUIT IN CONTACT WITH SOIL, AND OTHER INCOMPATIBLE MATERIALS, WITH TWO COATS OF BITUMASTIC.
4. A 3-POLE NEMA 4X DISCONNECT SWITCH SHALL BE PROVIDED WITH THE ODOR CONTROL PACKAGED UNIT. DISCONNECT SWITCH SHALL DISABLE ALL ELECTRICAL POWER TO THE SYSTEM; ANY CONTROL AND AUXILIARY VOLTAGES SHALL BE DERIVED FROM THE LOAD SIDE OF THE DISCONNECT SWITCH.



CONTROL ENCLOSURE- WEST ELEVATION

COMPONENTS ARE EXISTING UNLESS OTHERWISE NOTED (UON)
NO SCALE

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ELECTRICAL SECTION HEAD
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**HUNTERS GREEN (IA) PUMP STATION
ODOR CONTROL
ELECTRICAL**

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