



**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

<b>Fiscal Years</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
Capital Expenditures		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
	<b><u>\$1,034,929.00</u></b>				
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
<b>NET FISCAL IMPACT</b>		<u><u>0</u></u>	<u><u>0</u></u>	<u><u>0</u></u>	<u><u>0</u></u>
	<b><u>\$1,034,929.00</u></b>				
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

**Budget Account Nos.:** Fund 4011 Dept 721 Unit W006 Object 6541

Is Item Included in Current Budget? Yes  No

Reporting Category N/A

**B. Recommended Sources of Funds/Summary of Fiscal Impact: N/A**

One (1) time operating expenditure from the user fees and balance brought forward.

**C. Department Fiscal Review:** Delma M. West

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and/or Contract Development and Control Comments:**

[Signature] 11/9/11  
OFMB  
11/9/11 11/2/11

[Signature] 11/17/11  
Contract Development and Control  
11-17-11 Wheeler

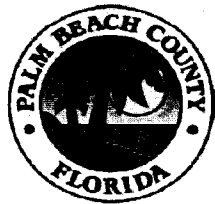
**B. Legal Sufficiency:**

This item complies with current County policies.

[Signature] 11/21/11  
Assistant County Attorney

**C. Other Department Reviews:**

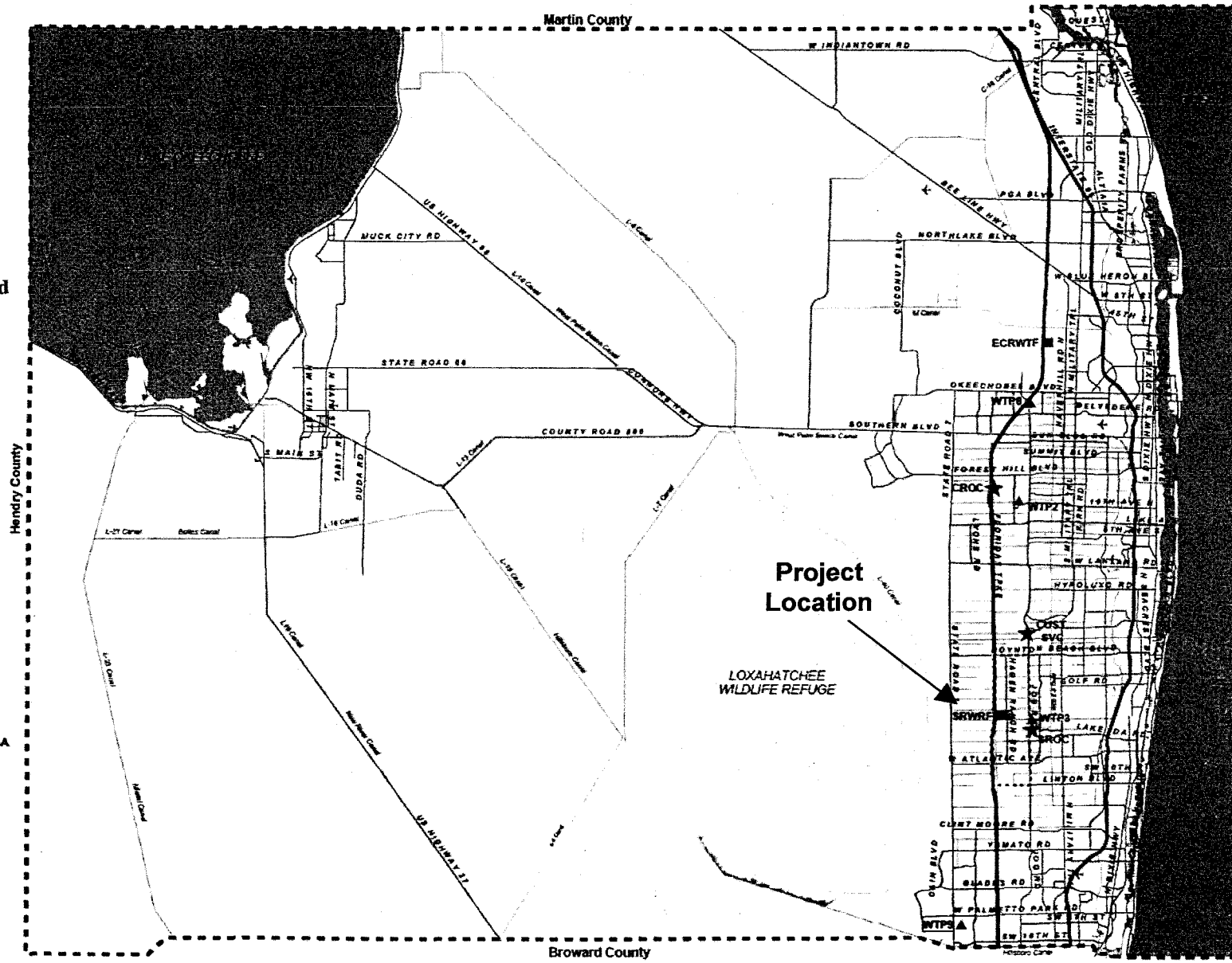
\_\_\_\_\_  
Department Director



**Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities**

**Legend**

- P.B.C.W.U.D. SA
- MANDATORY RECLAIMED SA
- COUNTY LIMITS
- ★ Administration
- Water Reclamation Plant
- ▲ Water Treatment Plant
- Wetlands



**SROC DIW Blending Modifications WUD #09-059**

**WORK AUTHORIZATION NO. 41**

**Project No. WUD 09-059**

**Budget Line Item No. 4011-721-W006-6541**

**Project Title: SROC DIW Blending Modifications**

**District No.: 5**

**THIS AUTHORIZATION No. 41, to the Contract for Optimization and Improvements Design-Build Services dated December 16, 2008 with an effective date of December 16, 2008 (Optimization and Improvements Design-Build Contract R2008-2323), by and between Palm Beach County and the Design-Build Entity identified herein, is for the Construction Services described in Item 3 of this Authorization. The Contract provides for 75% SBE participation overall. This Work Authorization includes 85.00% overall participation. The cumulative SBE participation, including this authorization is 75.68% overall.**

1. **DESIGN-BUILD ENTITY: Globaltech, Inc.**
2. **ADDRESS: 1075 Broken Sound Pkwy NW, Suite 103, Boca Raton, FL 33487**
3. **Description of Services to be provided by the Design-Build Entity:**

**Provide Design-Build services to install improvements to the Southern Region Operations Center (SROC) Deep Injection Well (DIW) that will allow the blending of membrane concentrate from WTP 3 with plant effluent from the Southern Region Water Reclamation Facility (SRWRF). The Palm Beach County Water Utilities Department (PBCWUD) has removed the existing 16-inch diameter tubing in the SROC DIW and plans to inject into the existing 20-inch diameter casing pipe, thereby increasing the capacity of the SROC DIW. The blending of the membrane concentrate with plant effluent is desired by PBCWUD to reduce the corrosivity of the membrane concentrate and allow it to be injected into the SROC DIW.**

**See EXHIBIT "A".**

4. **Services completed by the Design-Build Entity to date:**

**See EXHIBIT "B" and "C".**

5. **Design-Build Entity shall begin work promptly on the requested services.**
6. **The compensation to be paid to the Design-Build Entity for providing the requested services shall be:**

- A. Computation of time charges plus expenses, not to exceed \$ N/A
- B. Lump sum price of \$1,034,929
- 7. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Design-Build Entity, the Design-Build Entity shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.
- 8. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated 12/16/08 with an effective date of 12/16/08 remain in full force and effect.



## EXHIBIT A

### WORK AUTHORIZATION NO. 41 PALM BEACH COUNTY WATER UTILITIES DEPARTMENT DESIGN-BUILD SERVICES

#### SCOPE OF WORK FOR SROC DIW BLENDING MODIFICATIONS

#### INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Optimization and Improvements Design-Build Services - Palm Beach County Utilities Department Project No. WUD 08-078 (CONTRACT) with **Globaltech, Inc.** (DESIGN-BUILD ENTITY) to provide design-build services for various general activities on (Reference Document R2008-2323). This Work Authorization will be performed under that CONTRACT.

#### SCOPE OF SERVICES

This project provides Design-Build services to install improvements to the Southern Region Operations Center (SROC) Deep Injection Well (DIW) that will allow the blending of membrane concentrate from WTP 3 with plant effluent from the Southern Region Water Reclamation Facility (SRWRF). The modifications are to include the installation of a 24-inch plant effluent (PE) pipeline, PE flow control station, 16-inch membrane concentrate (MC) pipeline bypass, 20-inch bypass on the DIW Booster Pump Station (BPS), two 24" butterfly valves in the DIW BPS suction header, re-installation of Pump #2 furnished by PBCWUD, VFDs for Pump #2 and Pump #3, relocation of DIW BPS check valves, and corrosion monitoring stations at the DIW Control Building and the MC backflow preventers. In addition the existing ductile iron MC line will be replaced from WTP #3 to the SROC DIW pump station with a PVC or HDPE pipe.

The PBCWUD is installing a new corrosion inhibitor chemical feed system (storage tanks, metering pumps, piping and valves) at WTP #3. This corrosion inhibitor chemical feed system will need to be controlled (flow-paced) via the existing PLC. Programming of the PLC for these controls will be performed under this Work Authorization.

Scope of Services includes administrative and engineering services in support of the construction of the Work and record drawing preparation. This project will be constructed in accordance with the Palm Beach County Water Utilities Department Manual of Minimum Engineering Standards.

#### Description of Services

##### Task 1 – Administrative and Engineering Services

1. Prepare detailed construction schedule to include as a minimum; engineering and permitting services, site mobilization, detailed construction activities,

- scheduled shut downs and durations, equipment/material delivery times, testing, and startup and commissioning
2. Prepare submittals (or confirmation of compliance with PBCWUD design standards), administer and track submittal process
  3. Schedule meetings, inspections, and testing with County staff.
  4. Obtain PBC Building Department permit. Assist PBCWUD with the existing SFWMD permit.
  5. Provide Engineer's site visits during construction to confirm construction is being performed in conformance with the design drawings and specifications.
  6. Prepare record drawings and O&M manuals at close of project
  7. Assist County in acquiring appropriate building and environmental permits. All permit fees to be paid by County.

#### Task 2 – Construction Services

1. Establish staging areas with County staff and plant superintendent at site; mobilize to facilities.
2. Procure equipment and construct facilities. Provide excavation, backfill and/or locates and dewatering as required for the construction. Improvements are based on the Technical Memorandum and the 60% complete Drawings and Technical Specifications previously submitted to the PBCWUD. The specific improvements include the following:
  - A. Modifications to the DIW BPS as follows:
    - 1) Installation of Pump #2 that will be furnished by PBCWUD. Provide a factory representative to confirm alignment and provide a Manufacturer's Certificate of Proper Installation. Pump to be installed in previous location. No modifications to the pump are anticipated.
    - 2) Installation of two (2) new VFDs for Pump#2 and Pump #3. VFDs to be located in DIW Control Building - Electrical Room.
    - 3) Installation of two (2) new below-grade 24-inch MJ butterfly valves with above-grade operators and position indicators and restrained sleeves in the suction header of the DIW Booster pump station
    - 4) Installation of an above-grade spool piece between the four (4) existing 24-inch check valves on the discharge of the DIW Booster Pumps. Modify the existing Dresser sleeves to minimize the laying length on the downstream side of the check valves. New flange bolt and gasket kits will be provided. Existing wiring and conduit for check valve limit switches to be extended.
    - 5) Installation of an above-grade 20-inch plant effluent (PE) bypass at the DIW BPS. The 20-inch PE bypass will include:
      - a. A 20-inch swing check valve with limit switch
      - b. A 20-inch butterfly valve with an open/close motorized actuator



- c. One below-grade 20-inch tee with restrained cap on the pump discharge header for future tie-in
  - d. One below-grade 24-inch tee with restrained plug on the pump suction header for future tie-in
  - e. Remove the existing below-grade 24" and 20" 90 degree bends and replace with a 24" x 20" tee and a 20" x 18" tee, respectively.
  - f. Miscellaneous 20" elbows and fittings to route pipe.
- B. Installation of approximately 220 LF of 24-inch below-grade PE pipeline that connects to 36-inch PE reclaimed water line from the SRWRF to the 24-inch at the DIW Booster Pump Station where the 20-inch bypass will be installed. The 24-inch PE pipeline will also have the following:
- 1) A below-grade 24-inch tee and cut in sleeve to tie-into the existing 24-inch PE pipeline.
  - 2) An above-grade flow control header consisting of two (2) 24" x 18" reducers, one (1) 18-inch magmeter, and one (1) 18" butterfly valve with motorized actuator.
  - 3) A below-grade 24-inch tee and 24-inch butterfly valve for future connection to the reclaimed water (RC)
  - 4) A below-grade 24" x 8" tee and 8" gate valve for future wetland connection
  - 5) Two below-grade 24-inch butterfly valves for 24-inch PE pipeline isolation
  - 6) Miscellaneous 24" elbows and fittings to route pipe.
- C. Installation of approximately 40 LF of 16-inch membrane concentrate (MC) bypass line. The 16-inch MC bypass line will also have the following.
- 1) An above-grade 16-inch swing check valve with limit switch
  - 2) A below-grade 16-inch butterfly isolation valve
  - 3) A below-grade 24-inch 90 degree elbow
  - 4) A below-grade 24" x 16" reducer to tie-into an existing 24-inch MC line
  - 5) Miscellaneous 16" elbows and fittings to route pipe.
- D. Installation of approximately 540 LF of 16-inch membrane concentrate (MC) pipeline from WTP #3 to the SROC DIW pump station. The 16-inch MC pipeline will also have the following:
- 1) Cut, cap and abandon in place the existing 16" MC DIP.
  - 2) Install the new 16" PVC or 18" HDPE MC line from WTP #3 to the SROC DIW pump station connecting to existing piping at both ends and to the SRWRF Bypass.
  - 3) Reuse the existing flowmeter and electrically actuated valve in the vaults at WTP #3.
  - 4) Miscellaneous elbows and fittings to route pipe.

- E. Installation of a corrosion control monitoring station to be located in the existing DIW Control Building. The corrosion control monitoring station to consist of the following:
- 1) Two 2-metal coupon racks
  - 2) Corrosion probe
  - 3) pH sensor
  - 4) Conductivity sensor
  - 5) Dissolved oxygen sensor
  - 6) Multi unit controller
  - 7) Pressure gauge
  - 8) Install monitoring equipment on the existing CMU wall using 316 stainless steel hardware.
  - 9) Connect new 1-inch SCH 80 PVC sample line to existing PVC sample line in DIW Control Building.
  - 10) Connect new PVC drain line to existing drain
- F. Installation of a corrosion control monitoring station to be located next to the backflow preventers on the 16-inch MC line. The corrosion control monitoring station to consist of the following:
- 1) Two 2-metal coupon racks
  - 2) Pressure gauge
  - 3) Connect new 1-inch SCH 80 PVC sample line to existing tap at backflow preventer header.
  - 4) Construct an instrument stand using 316 stainless steel unistrut and hardware.
  - 5) Install PVC drain line from instrument rack to existing concrete manhole. Penetrate manhole 24" below grade.
- G. Replacement of small diameter air valves and piping at the existing surge tank. Remove DIW annulus tank and appurtenances.
- H. Electrical and I&C modifications for the work described above. Specific electrical and I&C work includes the following:
- 1) Provide and install all electrical equipment indicated on the drawings and described in the specifications including complete in place. Furnish and install:
    - a. Disconnect switches with support racks (stands).
    - b. Grounding.
    - c. In ground manholes/pull boxes.
    - d. Variable frequency drives.
    - e. Miscellaneous junction and pull boxes.
    - f. Power wiring and raceway.
    - g. Power wiring terminations.
  - 2) Provide and install all new concrete encased underground conduit duct banks and wiring indicated on drawings complete in place.

- 3) Terminate all control and signal wires in PLC panels and equipment such as valves and variable frequency drives.
  - 4) Provide all miscellaneous electrical including switches, terminations, fittings, wiring, conduit, junction boxes, etc. not specified but obviously necessary for a complete working system in place.
  - 5) Extend existing wiring and raceway as indicated on the drawings. Furnish junction boxes, splices and terminations for a complete working system in place.
  - 6) Electrically connect new instruments. Terminations include both out in the field and in the appropriate control panel.
  - 7) VFD Startup and training is included.
  - 8) Program the existing PLC, including control of the new corrosion inhibitor system at WTP #3.
- 
3. Construct above-ground grading, concrete pads and valve boxes per PBCWUD standards.
  4. Patch, repair, and coat affected work areas to match existing (or previous) conditions where affected by work in this WA.
  5. Excavate area under existing concrete parking pad. Locate and identify existing underground utilities. Construct a new concrete pad to match existing dimensions upon completion of work.
  6. Paint new pipe per PBCWUD standards. Provide pipe labeling.
  7. Prepare Record Drawings, including coordinates and top of pipe elevations for the existing utilities exposed during the Work. Provide O& M Manuals.
  8. Cleanup work area and demobilize from site.

#### Task 3 – Commissioning Services

1. Schedule vendor startup services with Plant and County staff; assist vendor as required.
2. Schedule startup and HMI programming services with County staff.

#### ASSUMPTIONS

1. The scope of work is based on the Technical Memorandum and 60% design Drawings and Technical Specifications previously submitted to the PBCWUD.
2. County will make available all existing record drawings, submittals, equipment cut sheets, and programming/SCADA interface information as may be required to coordinate and complete this scope of services.
3. County will review all submittals and provide comments within one calendar week and notify Globaltech of status.

4. HMI Screens programmed by County.
5. Liquidated Damages may be assessed at a rate of \$1,000 per day up to Substantial Completion and \$500 per day from Substantial Completion until Final Completion.
6. Pipe will be cement-lined ductile iron, unless specifically listed as otherwise. Flange bolt kits will be 316 stainless steel.
7. Modifications to the DIW itself and the 20-inch well head piping are being done by others.
8. Existing piping and facilities will not be painted.
9. The PE line can be shut down by the existing valve in Jog Road and the PE line can be out of service while the cut-in sleeve is installed and the MC line can be shut down using the existing valves while the new piping is installed. Both operations should take about 4 hours after the pipe is dry and are assumed to be performed during normal working hours (8:00 am to 6:00 pm). The MC line will likely need to be shutdown at least twice.
10. The existing surge tank is in acceptable working condition.
11. The concentrate blend ratios, corrosion inhibitor feed systems and any potential corrosion issues with the DIW have been evaluated by others. Their recommendations have been reflected in some of these improvements as directed by PBCWUD.
12. The MC/FM Interconnect work shown on Sheet No. M-7 of the Drawings is not included in this Work Authorization.
13. A \$25,000 allowance has been included. The allowance cannot be accessed without written authorization from the County.

#### **COMPENSATION**

Compensation for Work Authorization No. 41 will not exceed the Lump Sum Amount (inclusive of allowances) of \$1,034,929. Attachment A provides the cost breakdown and fee.

#### **SCHEDULE**

The milestone completion schedule is provided in Attachment B. A detailed construction activity schedule will be provided under Task 1.1 of this WA.

#### **M/WBE PARTICIPATION**

As prescribed under Section 7.5 of the CONTRACT, M/WBE participation is included in Attachment C under this Authorization. Schedule 1 to Attachment C defines the M/WBE participation.

<b>ATTACHMENT – A</b>	<b>Budget Summary</b>
<b>ATTACHMENT – B</b>	<b>Project Schedule</b>
<b>ATTACHMENT – C</b>	<b>SBE Schedules 1&amp;2</b>
<b>ATTACHMENT – D</b>	<b>Location Map</b>
<b>ATTACHMENT – E</b>	<b>Subcontractor Quotes</b>
<b>ATTACHMENT – F</b>	<b>60-percent Complete Drawings</b>

**PUBLIC CONSTRUCTION BOND**

BOND NUMBER: 118166

BOND AMOUNT: \$1,034,949

CONTRACT AMOUNT: \$1,034,949

CONTRACTOR'S NAME: Globaltech, Inc.

CONTRACTOR'S ADDRESS: 1075 Broken Sound Parkway, NW  
Suite #103  
Boca Raton, FL 33487

CONTRACTOR'S PHONE: 561-997-6433

SURETY COMPANY: First Sealord Surety, Inc.

SURETY'S ADDRESS: 4901 17<sup>th</sup> Way #304  
Ft. Lauderdale, FL 33309

OWNER'S NAME: PALM BEACH COUNTY

OWNER'S ADDRESS: 8100 Forest Hill Boulevard (P. O. Box 16097)  
West Palm Beach, FL 33413

OWNER'S PHONE: (561) 493-6000

DESCRIPTION OF WORK: Construction of SROC DIW Blending Modifications

PROJECT LOCATION: 13026 Jog Road, Delray Beach, FL 33446

LEGAL DESCRIPTION: 13026 Jog Road, Delray Beach, FL 33446

**PUBLIC CONSTRUCTION BOND**

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor and Surety, are held and firmly bound unto

Palm Beach County Board of County Commissioners  
301 N. Olive Avenue  
West Palm Beach, Florida 33401

as Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of

Dollars (\$1,034,949.00)

(One million, thirty-four thousand, nine hundred forty-nine dollars and zero cents)

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS,

Principal has by written agreement dated \_\_\_\_\_, entered into a contract with the County for

Project Name: SROC DIW Blending Modifications

Project No.: WUD 09-059

Project Description: **This project involves the installation of improvements which will allow blending of membrane concentrate from WTP 3 with reclaimed water from the SRWRF for injection into the SROC deep injection well.**

Project Location: 13026 Jog Road, Delray Beach, FL 33446

in accordance with Design Criteria Drawings and Specifications prepared by

Name of Design Firm: Globaltech, Inc.  
Location of Firm: Boca Raton, FL 33487  
Phone: 561-997-6433  
Fax: 561-997-5811

which contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated \_\_\_\_\_, between Principal and County for the design and construction of SROC DIW Blending Modifications, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the

prosecution of the work provided for in the contract; and

3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorneys' fees, including appellate proceedings, that County sustains because of a default by Principal under the contract; and

4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.

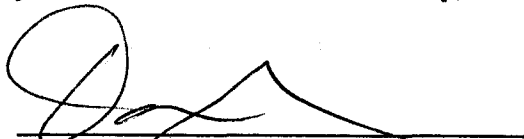
5. Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.

6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against the bond.

7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, delay and liquidated damages contained in the contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverage's and limitations of this instrument.


8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.

9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County, Florida and not elsewhere.

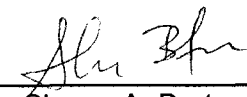
  
\_\_\_\_\_  
Witness

Principal  (Seal)

Globaltech, Inc.  
Title

  
\_\_\_\_\_  
Witness

Surety (Seal)  
First Sealord Surety, Inc.

  
\_\_\_\_\_  
Title - Shawn A. Burton, Attorney-in-Fact



**FORM OF GUARANTEE**

GUARANTEE FOR (Contractor and Surety Name) Globaltech, Inc. and First Sealord Surety, Inc.

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We the undersigned hereby guarantee that the **SROC DIW Blending Modifications, Project WUD 09-059**. Palm Beach County, Florida, which we have constructed and bonded, has been done in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within a period of one year from the date of Substantial Completion of all of the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. When correction work is started, it shall be carried through to completion.

In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

DATED \_\_\_\_\_  
(notice of completion filing date)

**SEAL AND NOTARIAL ACKNOWLEDGMENT OF SURETY**

Countersigned Resident Agent in Florida: Globaltech, Inc. (Seal)  
(Contractor)

SHAWN A. BURTON  
(Agent)

By: [Signature]  
(Signature)

By [Signature]  
(Signature)

First Sealord Surety, Inc. (Seal)  
(Surety)

By: [Signature]  
(Signature)

Shawn A. Burton, Attorney-in-Fact

**END OF SECTION**

First Sealord Surety, Inc.

Power No: MIA-0036-11-12713

Power of Attorney

KNOW ALL MEN BY THESE PRESENTS: That First Sealord Surety, Inc., a corporation of the Commonwealth of Pennsylvania, (hereinafter the "Company") has made, constituted and appointed, and by these presents does make, constitute and appoint

Gerald J. Arch, Shawn A. Burton, Michael A. Holmes, James F. Murphy and/or Joanne M. Mursell all of Ft. Lauderdale, Florida its true and lawful Attorney-in-Fact, to make, execute and deliver on its behalf insurance policies, surety bonds, undertakings and other instruments of a similar nature as follows:

\*\*\*\*\* Not To Exceed Five Million Dollars-----(\$5,000,000.00) \*\*\*\*\*

Such insurance policies, surety bonds, undertakings and instruments for said purposes, when duly executed by the aforesaid Attorney-in-Fact, shall be binding upon the said Corporation as fully and to the same extent as if signed by the duly authorized officers of the Corporation and sealed with its corporate seal; and all the acts of said Attorney-in-Fact, pursuant to the authority hereby given, are hereby ratified and confirmed.

This appointment is made pursuant to the following By-Laws which were duly adopted by the Board of Directors of the said Corporation on April 7, 2003 with all Amendments thereto and are still in full force and effect:

"Article XII: Policies, Bonds, Recognitions, Stipulations, Consents of Surety, Underwriting Undertakings, and Instruments Relating Thereto.

Section 12-1. Insurance policies, bonds, recognitions, stipulations, consents of surety and underwriting undertakings of the Corporation, and releases, agreements and other writings relating in any way thereto or to any claim or loss thereunder, shall be signed in the name and on behalf of the Corporation: a) by the Chairman of the Board, the President or a Vice President, and by the Secretary or an Assistant Secretary; or b) by an Attorney-in-Fact for the Corporation appointed and authorized by the Chairman of the Board, the President, or a Vice President to make such signature; or c) by such other officers or representatives as the Board may from time to time determine. The seal of the Corporation shall if appropriate be affixed thereto by any such officer, Attorney-in-Fact or representative. The authority of such Attorney-in-Fact and Agents shall be as prescribed in the instrument evidencing their appointment. Any such appointment and all authority granted thereby may be revoked at any time by the Board of Directors or by any person empowered to make such appointment."

IN WITNESS WHEREOF, First Sealord Surety, Inc. has caused these presents to be duly signed and its corporate seal to be hereunto affixed and duly attested this 20th day of January, 2004.



(Seal) Attest:

[Signature of Gary L. Bragg]

Gary L. Bragg, Secretary

First Sealord Surety, Inc.

By:

[Signature of Joel D. Cooperman]

Joel D. Cooperman, Vice President

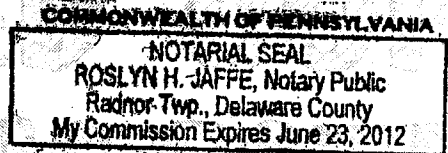
Commonwealth of Pennsylvania  
County of Montgomery

On this 22<sup>nd</sup> day of April, 2010, before me personally appeared Joel D. Cooperman, Vice President of First Sealord Surety, Inc., satisfactorily proven to be the person whose name is subscribed to this instrument (driver's license), who, being by me duly sworn, said that he resides in the Commonwealth of Pennsylvania, that he is Vice President of First Sealord Surety, Inc., the corporation described in and which executed the foregoing instrument; that he knows the corporate seal of the said Corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Corporation; and that he signed his name thereto as Vice President of said

State of Pennsylvania  
County of Delaware

[Signature of Roslyn H. Jaffe]

- Notary Public



CERTIFICATE

I, the undersigned Secretary of First Sealord Surety, Inc. do hereby certify that the original Power of Attorney of which this foregoing is a full, true and correct copy, is in full force and effect on the date of this Certificate and I do further certify that the Officer who executed the said Power of Attorney was one of the Officers authorized by the Board of Directors to appoint an Attorney-in-Fact as provided in Section 12-1 of the By-Laws of First Sealord Surety, Inc. This Certificate may be signed and sealed by facsimile under and by authority of the following provisions of the By-Laws of First Sealord Surety, Inc.:

"Section 12-2. The use of a printed facsimile of the corporate seal of the Corporation and of the signature of the Secretary or an Assistant Secretary on any certification of the correctness of a copy of an instrument executed by an authorized person pursuant to Article XII, Section 12-1 of the By-Laws appointing and authorizing an Attorney-in-Fact to sign in the name and on behalf of the Corporation surety bonds, underwriting undertakings, or other instruments described in said Section 12-1, with like effect as if such seal and such signature had been manually affixed and made."

In Witness Whereof, I have hereunto set my hand and affixed the corporate seal of the Corporation to these presents

this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

This power of attorney is void unless the Bond number is inserted in this paragraph (insert Bond # here 118166), the bond number is the same number as on the original bond, and the bond number has been inserted by an officer or employee of the Company or by the agent.

(seal)

[Signature of Gary L. Bragg]

Gary L. Bragg, Secretary



ATTACHMENT A  
 10/13/2011  
 PBCWUD No. 09-059  
 WA-41

**SROC DIW CONSTRUCTION**

Division	Item/Cost Code	Description	Material	Labor	Rental Equipment	Subcontract	Amount
1	General Conditions	Bonding/Mobilization					\$45,500
1	General Conditions	Submittals, Permitting, Meetings, PM, Superintendent, Scheduling, Surveying, Startup	\$1,450	\$37,570	\$0	\$5,500	\$44,520
2	Demolition	24" Plant Effluent (PE)	\$2,570	\$16,204	\$10,000	\$10,021	\$38,795
2	Demolition	16" Membrane Concentrate (MC)	\$5,920	\$35,155	\$10,000	\$12,400	\$63,475
2	Demolition	24" Pump Suction Header	\$1,456	\$9,441	\$10,000	\$715	\$21,612
3	Concrete	Slabs, collars, bollards, grout	\$15,075	\$18,230	\$1,000	\$605	\$34,910
5	Misc. Metals	Stands, anchors unistrut, clips	\$4,715	\$5,840	\$0	\$0	\$10,555
9	Finishes	Coatings	\$3,400	\$11,400	\$0	\$0	\$14,800
11	Equipment	Corrosion System	\$24,090	\$13,400	\$0	\$0	\$37,490
13	I&C	Magmeter, PLC card, Programming	\$15,187	\$0	\$0	\$27,500	\$42,687
15	Mechanical	24" Plant Effluent (PE)	\$107,245	\$19,654	\$10,000	\$0	\$136,899
15	Mechanical	24" Bypass	\$59,850	\$7,398	\$7,500	\$0	\$74,748
15	Mechanical	16" Membrane Concentrate (MC)	\$88,550	\$22,628	\$10,000	\$0	\$121,178
15	Mechanical	24" Valves/Pump Suction Header	\$18,400	\$6,250	\$10,000	\$0	\$34,650
15	Mechanical	Relocate Check Valves	\$26,040	\$22,296	\$2,500	\$0	\$50,836
15	Mechanical	Reinstall Motor No. 2	\$1,224	\$3,017	\$0	\$1,650	\$5,891
16	Electrical	Electrical System	\$0	\$0	\$0	\$208,000	\$208,000
	Engineering	SDC, Record Drawings		See Attachment A for SDC Engineering			\$23,383
	Allowance		\$0	\$0	\$0	\$0	\$25,000
Total							\$1,034,929

# ATTACHMENT - B

## PROJECT SCHEDULE

### SCHEDULE

The completion dates for this work will be as follows (starting from DESIGN-BUILD ENTITY 'S receipt of Notice-to-Proceed).

<u>Construction Services</u>	<u>Substantial Completion</u> <sup>(1)</sup>	<u>Final Completion</u> <sup>(1)</sup>
Engineering		45 days
Procurement		120 days
Construction	335 days	365 days

<sup>(1)</sup> Pending delivery of specified components.

**ATTACHMENT C**

SCHEDULE #1

LIST OF PROPOSED SBE-M/WBE PRIME AND/OR SUBCONTRACTOR PARTICIPATION

PROJECT NAME: Southern Region Operations Center (SROC) Deep PROJECT NUMBER OR BID NUMBER: WUD 09-059  
Injection Well (DIW) Blending Modifications  
 NAME OF PRIME BIDDER: Globaltech, Inc. ADDRESS: 1075 Broken Sound Parkway NW, Suite 103,  
 CONTACT PERSON: Paul Gandy, P.E. Boca Raton, FL 33487  
 BID OPENING DATE: \_\_\_\_\_ PHONE NO. 561-997-6433 FAX NO. 561-997-5811  
 USER DEPARTMENT: \_\_\_\_\_

THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUBMITTED WITH THE BID PACKET. PLEASE LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE-M/WBE SUBCONTRACTORS ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, PLEASE ALSO LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIM ON THIS PROJECT .

Name, Address, Telephone Number of SBE-W/MBE Contractor	(Check one or both Categories)		Dollar Amount				
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
Globaltech, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ -	\$ -	\$ -	\$ 677,029.00	\$ -
Hillers Electrical Engineering, Inc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	\$ -	\$ 13,400.00	\$ -	\$ -	\$ -
Electron, Inc.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	\$ -	\$ -	\$ -	\$ 189,262.00	\$ -
	<input type="checkbox"/>	<input type="checkbox"/>	\$ -	\$ -	\$ -	\$ -	\$ -
	<input type="checkbox"/>	<input type="checkbox"/>	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL:			\$ -	\$ 13,400.00	\$ -	\$ 866,291.00	\$ -

TOTAL BID PRICE: \$1,034,929.00

Total Value of SBE-M/WBE Participation Dollar Amount or Percentage of Work: \$ 879,691.00

- NOTE:
1. The amount listed on this form for a Subcontractor must be supported by price or percentage listed on the signed Schedule 2 or signed proposal in order to be counted toward goal attainment.
  2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both a SBE and M/WBE, please indicate the dollar amount or percentage under the appropriate category.
  3. M/WBE information is being collected for tacking puposes only.

**ATTACHMENT C**

**SCHEDULE 2**

**LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR**

PROJECT NO. WUD 09-059 PROJECT NAME: SROC DIW Blending Modifications

TO: Globaltech, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise \_\_\_\_\_ Minority Business Enterprise X

Black \_\_\_\_\_ Hispanic X Women \_\_\_\_\_ Caucasian \_\_\_\_\_ Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: September 28, 2009

The undersigned is prepared to perform the following described work in connection with the above project  
**(Specify in detail, particular work items or parts thereof to be performed):**

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
<u>E3</u>	<u>Electrical Engineering</u>	<u>1</u>	<u>\$13,400</u>	<u>\$13,400</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**HEE will provide electrical engineering design services, attend meetings, and perform site inspections.**

at the following price and not to exceed:  
\$ 13,400 (thirteen thousand four hundred dollars)  
(Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ -0-

The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Hillers Electrical Engineering  
(Print Name of SBE-M/WBE Subcontractor)

By:   
(Signature)

Paul Hillers, P.E. / President  
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

### ATTACHMENT C

#### SCHEDULE 2

#### LETTER OF INTENT TO PERFORM AS AN SBE OR M/WBE SUBCONTRACTOR

PROJECT NO. WUD 09-059 PROJECT NAME: SROC DIW Blending Modifications

TO: Globaltech, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a(n) – (check one or more, as applicable):

Small Business Enterprise  Minority Business Enterprise \_\_\_\_\_

Black \_\_\_\_\_ Hispanic \_\_\_\_\_ Women \_\_\_\_\_ Caucasian  Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: July 2, 2010 – July 2, 2013

The undersigned is prepared to perform the following described work in connection with the above project  
**(Specify in detail, particular work items or parts thereof to be performed):**

Line Item/Lot No.	Item Description	Qty / Units	Unit Price	Total Price
<u>C15</u>	<u>Electrical Engineering</u>	<u>1</u>	<u>\$189,262</u>	<u>\$189,262</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**Electron Inc. will provide electrical contracting services for the modifications to the DIW at SROC including the installation of the variable frequency drives and supporting equipment.**


at the following price and not to exceed:  
\$ 189,262 (one hundred eighty-nine thousand two hundred sixty two dollars)  
(Subcontractor's quote)

And will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to sub-subcontract any portion of this subcontract to a non-certified SBE subcontractor, the amount of any such subcontract must be stated: \$ -0-

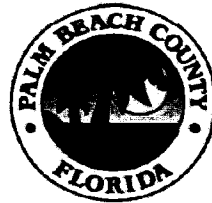
The undersigned subcontractor understands that the provision of this form to prime bidder does not prevent subcontractor from providing quotations to other bidders

Electron, Inc  
(Print Name of SBE-M/WBE Subcontractor)

By:  \_\_\_\_\_  
(Signature)

Albert Laessig / President  
(Print name/title of person executing on behalf of SBE-M/WBE Subcontractor)

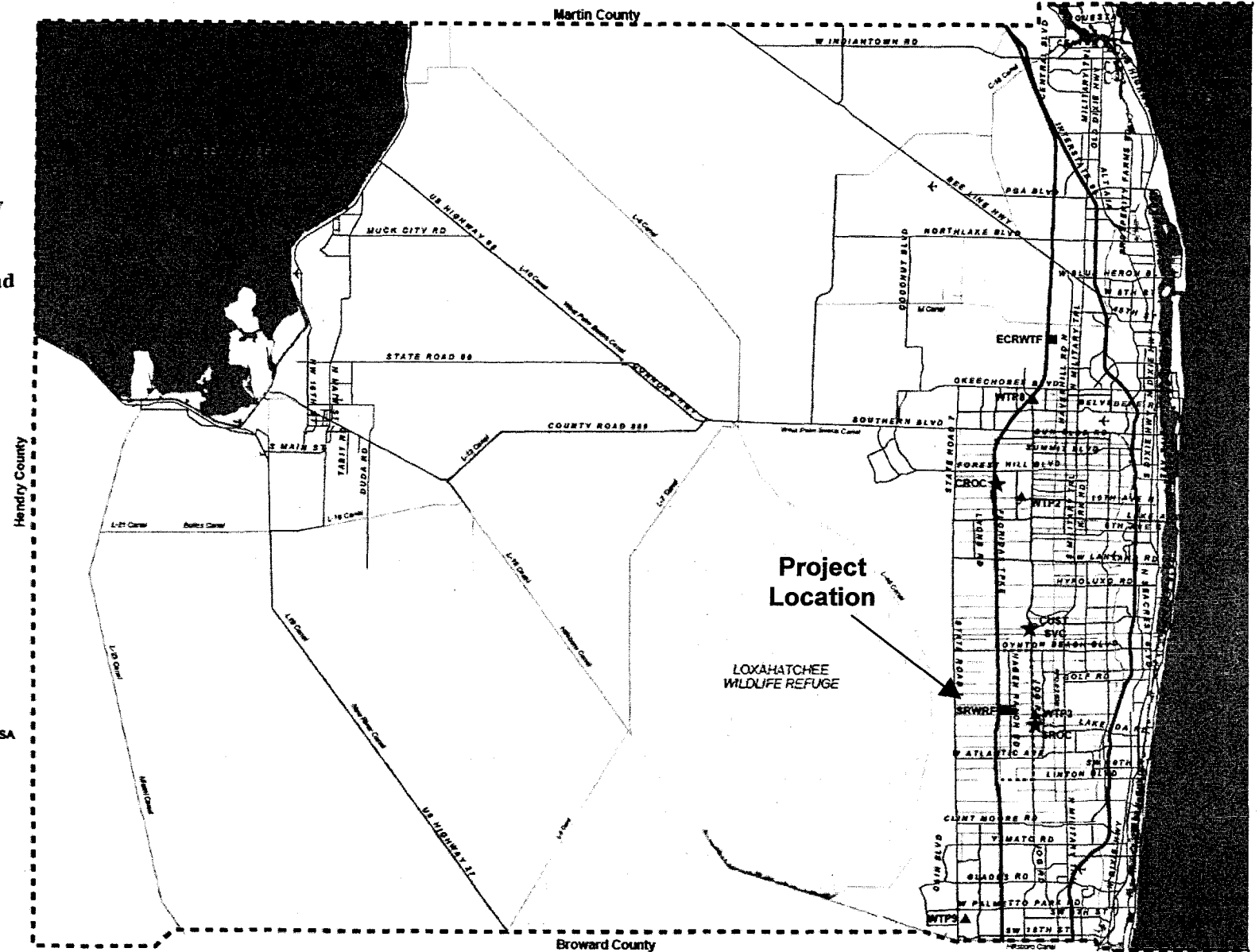
ATTACHMENT D



Palm Beach County  
Water Utilities  
Department  
Service Area (SA) and  
Major Facilities

Legend

- P.B.C.W.U.D. SA
- - - MANDATORY RECLAIMED SA
- - - COUNTY LIMITS
- ★ Administration
- Water Reclamation Plant
- ▲ Water Treatment Plant
- ⊙ Wetlands





## **Attachment E**

### **Subcontractor Quotes**



Post Office Box 16039 - Tampa, FL 33687-6039  
 (813) 740-1144 - FAX (813) 627-9387

October 13, 2011

Globaltech, Inc,  
 Attn: Adam Moore

Re: Palm Beach County

QTY	SIZE	DESCRIPTION	UNIT	PRICE	TOTAL
<b>24" Valve Replacement (CEMENT LINED)</b>					
2	24"	DI MJ BFV (DI BODY AND DISC, BUNA SEAT, 304SS, 150B W/ WORM GEAR)	EA	3724.44	7448.89
2	24"	DI MJ SLEEVE	EA	471.38	942.75
18	24"	DI PIPE (TR-FLEX CLASS 250)	LF	116.55	2097.83
8	24"	MEGALUGS W/ ACCY SET FOR DIP	EA	231.52	1852.15
<b>SUB TOTAL - TAX NOT INCLUDED</b>					<b>\$ 12,341.62</b>
<b>24" PE LINE (CEMENT LINED)</b>					
1	24"	DI MJ SLEEVE	EA	471.38	471.38
3	24" x 24"	C153 DI MJ TEE C/L	EA	1000.13	3000.39
2	24"	DI MJ BFV (DI BODY AND DISC, BUNA SEAT, 304SS, 150B W/ WORM GEAR)	EA	3724.44	7448.89
3	24"	C153 DI MJ 90 BEND	EA	808.71	2426.13
4	24"	DI FLG 45 BEND C/L	EA	949.18	3796.73
2	24"	C153 DI MJ PLUG	EA	418.95	837.89
1	24" X 8"	C153 DI MJ TEE	EA	598.00	598.00
30	24"	MEGALUGS W/ ACCY SET FOR DIP	EA	234.04	7021.06
252	24"	DI PIPE (TR-FLEX CLASS 250)	LF	116.55	29369.65
18	8"	DI PIPE (TR-FLEX CLASS 350)	LF	23.29	419.19
1	8"	DI MJ BFV (DI BODY AND DISC, BUNA SEAT, 304SS, 150B W/ TRAVELING NUT OPERATOR)	EA	551.11	551.11
1	8"	C153 DI MJ PLUG	EA	38.09	38.09
3	8"	MEGALUGS W/ ACCY SET FOR DIP	EA	33.87	101.61
				<b>SUBTOTAL</b>	<b>\$56,080.11</b>
<b>24" PE FLOW CONTROL HEADER (CEMENT LINED)</b>					
4	24" X 10' L	DI PIPE FLG X FLG	EA	2295.77	9183.07
3	24"	DI FLG 90 BEND	EA	1306.30	3918.90
2	24" X 18"	DI FLG CONCENTRIC RDCR	EA	952.15	1904.30
1	18"	MAGMETER	EA		0.00
1	18"	FLG MOTOR ACTUATED BFV W/ ROTORK 460/3/60 EMO (OPEN/CLOSE SERVICE)	EA	8043.33	8043.33
1	START UP	EMO START-UP PER DAY (8 HOURS MAX PER DAY)		1250.00	1250.00
4	24"	SS FLG KITS W/ GASKETS (316SS FIN HEX W/ SBE TORUSEAL GASKET)	EA	515.89	2063.58
5	18"	SS FLG KITS W/ GASKETS (316SS FIN HEX W/ SBE TORUSEAL GASKET)	EA	351.56	1757.82
<b>SUB TOTAL - TAX NOT INCLUDED</b>					<b>\$ 28,121.01</b>
<b>24" BYPASS (CEMENT LINED)</b>					
2	24" X 20"	C153 DI MJ TEE	EA	1122.80	2245.59
18	24"	DI PIPE (TR-FLEX CLASS 250)	LF	116.55	2097.83
2	20" X 10' L	DI PIPE FLG X FLG	EA	1767.65	3535.29
2	20"	DI FLG 90 BEND	EA	802.28	1604.56

1	20"	FLG MOTOR ACTUATED BFV W/ ROTORK 460/3/60 EMO (OPEN/CLOSE SERVICE)	EA	8654.44	8654.44
1	START UP	EMO START-UP PER DAY (8 HOURS MAX PER DAY)		1250.00	1250.00
1	20"	FLG CHECK VALVE W/ LIMIT SWITCH	EA	11667.16	11667.16
1	20" X 2' L	DI PIPE FLG X FLG	EA	880.63	880.63
2	20" X 10' L	DI PIPE FLG X FLG	EA	1767.65	3535.29
1	20" X 20"	C153 DI MJ TEE	EA	673.68	673.68
36	20"	DI PIPE (TR-FLEX CLASS 300)	LF	88.83	3197.96
1	20" X 18"	C153 DI MJ TEE	EA	998.65	998.65
1	20"	C153 DI MJ CAP	EA	203.78	203.78
6	24"	MEGALUGS W/ ACCY SET FOR DIP	EA	231.52	1389.11
8	20"	SS FLG KITS W/ GASKETS (316SS FIN HEX W/ SBE TORUSEAL GASKET)	EA	441.17	3529.36
5	20"	MEGALUGS W/ ACCY SET FOR DIP	EA	195.90	979.50
<b>SUB TOTAL - TAX NOT INCLUDED</b>					<b>\$ 46,442.85</b>
<b>16" MC BYPASS (401 LINED)</b>					
2	16"	C153 MJ Cap	EA	224.98	449.96
1	16"	C153 MJ 90, 401 Lined, L/Accys	EA	531.62	531.62
1	16"	C153 MJ Tee, 401 Lined, L/Accys	EA	713.40	713.40
2	16" X 12"	C153 MJ Reducer, 401 Lined, L/Accys	EA	357.23	714.45
2	16"	C153 MJ 45, 401 Lined, L/Accys	EA	449.43	898.86
19	16"	Mega-Lugs for PVC w/ Accys	EA	152.42	2895.97
60	16"	DR25 C905 PVC Pipe - Green (Quoting DR25)	FT	21.68	1300.65
40	12"	DR18 C900 PVC Pipe - Green	FT	16.49	659.78
4	12"	EBAA MegaFlanges	EA	271.84	1087.37
5	12"	Mega-Lugs for PVC w/ Accys	EA	72.31	361.56
1	12"	C153 MJ Tee, 401 Lined, L/Accys	EA	366.71	366.71
1	12" X 2"	JCM 406 Tapping Saddle	EA	116.81	116.81
1	2"	Corp M x F	EA	156.25	156.25
540	16"	DR25 C905 PVC Pipe - Green (Quoting DR25)	FT	21.91	11833.04
4	16"	C153 MJ 45, 401 Lined, L/Accys	EA	449.43	1797.72
2	16"	C153 MJ 90, 401 Lined, L/Accys	EA	531.62	1063.25
1	24" X 16"	C153 MJ Reducer, 401 Lined, L/Accys	EA	742.90	742.90
20	24"	DR18 C905 PVC Pipe - Green	FT	49.02	980.43
1	24"	C153 MJ 90, 401 Lined, L/Accys	EA	1124.89	1124.89
4	24"	Mega-Lugs for PVC w/ Accys	EA	262.23	1048.92
13	16"	Mega-Lugs for PVC w/ Accys	EA	152.42	1981.45
17	16"	C905 PVC Bell Restraints (Series 2800)	EA	283.78	4824.23
1	16"	C153 MJ Tee, 401 Lined, L/Accys	EA	713.40	713.40
1	16"	C153 MJ 90, 401 Lined, L/Accys	EA	531.62	531.62
1	16" X 12"	FLG x PE 401L	EA	336.53	336.53
3	16"	C153 MJ 90, 401 Lined, L/Accys	EA	531.62	1594.87
2	16" X 6'-0"	FLG x FLG 401L	EA	987.17	1974.33
1	16"	FLG BFV	EA	1408.89	1408.89
1	16"	FLG TEE 401L	EA	948.39	948.39
1	16"	Megaflange	EA	679.63	679.63
2	16"	FLG Swing Check Valve w/ Limit Switch	EA	7608.78	15217.57
1	16" X 12"	Flg Reducer 401L	EA	629.62	629.62
1	16"	FLG BFV w/ Electric Actuator (OPEN/CLOSE SERVICE)	EA	7345.56	7345.56
15	16"	SS FLG Kits w/ Toroseal gaskets	EA	189.52	2842.78
1	12"	SS FLG kits	EA	99.89	99.89
<b>SUB TOTAL - TAX NOT INCLUDED</b>					<b>\$ 69,973.31</b>
2	16" X 2"	TAPPING SADDLE	EA	152.99	305.97
2	20" X 2"	TAPPING SADDLE	EA	215.57	431.13
5	2"	THRD ARV (CI BODY, 316SS TRIM, BUNA-N SEAT	EA	213.33	1066.67
1	2"	SS GATE VALVE NPT (NO SPEC, QUOTING 200# THRD GV)	EA	122.91	122.91

20	2"	SS PIPE (316SS SCH 40 WELDED PIPE)	EA	14.36	287.14
1	8" x 2"	TAPPING SADDLE	EA	89.15	89.15
					<b>\$2,302.97</b>
<b>ADD ITEMS</b>					
4	18" X 6"	DI FLG CONC RED CEMENT LINED (18X8 & 8X6)	EA	486.22	1944.86
4	18"	MEGA FLANGE ADAPTER W/ 316SS HDWE	EA	1320.01	5280.03
4	18"	DRESSER COUPLING (INCLUDING RESTRAINT)	EA	1212.00	4848.00
4	18" X 1'-6"	DI PIPE FLG X FLG	EA	501.77	2007.10
20	18"	SS FLG KITS W/ GASKETS (316SS FIN HEX W/ SBE TORUSEAL GASKET)	EA	351.56	7031.29
4	6"	SS FLG KITS W/ GASKETS (316SS FIN HEX W/ SBE TORUSEAL GASKET)	EA	37.65	150.59
					<b>\$21,261.87</b>
		<b>TOTAL - TAX NOT INCLUDED</b>			<b>\$236,523.74</b>
<b>Notes:</b>					
1		All Ductile Iron MJ Fitting Quoted C153 (Compact)			
2		All Fitting and Valves Quoted Less Accessories			
3		All Buried Ductile Iron Pipe and MJ Fitting Quoted Bituminous Coated			
4		All Flange Pipe and Fitting Quoted Prime Coated			
5		All Ductile Iron Pipe and Fitting Quoted Protecto 401 Lined			
6		All Ductile Iron Fitting (MJ & Flange) Quoted Are Globally Sourced			
7		<u>Due to the volatile raw market All C-900 PVC, C-905 PVC, HDPE, SDR 35, Sch 80 PVC, Sch 40 PVC, Stainless Steel, Copper &amp; Brass Pipe, Fittings, Valves, etc will/may need to be re-quoted at the time of purchase. Pricing Subject to Availability.</u>			
<b>** DISCLAIMER:</b>					
<i>Prices quoted on Ductile Iron Pipe and Fittings will be firm for a period of 60 days from quotation date. Any shipments after 60 days from the quotation date can be subject to a 4% increase. Any shipments made after four months from quotation date will be re-quoted using that days current price sheets. McDade Waterworks, Inc. reserves the right to increase prices and/or change escalation terms at any time based on the potential of continued cost volatility.</i>					
The above quotation is our interpretation of the plans and specifications and should be reviewed by your firm for accuracy. Prices do not include valve boxes, ext stems, wrenches, start-up services, etc. unless specifically noted in our quotation. Prices are based on full freight allowed truckload shipments to the project. Additional materials ordered will be furnished on a case by case basis.					
The quotation does not include electronic O&M manuals, but can be furnished for a fee based on the requirements of the specifications. The fee will be quoted at the contractor's request.					
Terms:	Net 30 Days				
FOB:	S/P - FFA to Jobsite				
Please call should you have any questions or need any additional pricing.					
Sincerely,					
Wesley Bunn					

Run Date 1/26/11 HD SUPPLY WATERWORKS, LTD.

GLOBALTECH INC  
STE 103  
1075 BROKEN SOUND PKWY NW  
BOCA RATON FL 33487  
Telephone: 561-997-6433  
Fax: 561-997-5811

HDSWW - W PALM BEACH FL  
1101 W 17th Street  
Riviera Beach FL 33404  
Telephone: 561-848-4396  
Fax: 561-845-7267

Attention: DAVE SCHUMAN

1/26/11 Bid ID: 2656566 PBC SROC DIW - METER

Page 2

Line	Quantity	Sell Per	Description	Net Price	Extended Price
THANK YOU FOR THE OPPORTUNITY!					
240	1	EA	MAGNETIC FLOWTUBE+XMITTER, W&W ROSEMOUNT 8750WA12ESR1A1FPSA180CA1N0M4G1 B6Q4	8,975.00	8,975.00
280	1	EA	START UP CHARGE	925.00	925.00

TO ENSURE CORRECT PRICING,  
PLEASE REFERENCE THIS BID WHEN  
PLACING YOUR ORDER.

Subtotal: 9,900.00  
Tax: 594.00  
Bid Total: 10,494.00

Metal Samples Company  
P.O. Box 8  
152 Metal Samples Road  
Munford, AL 36268  
Phone: (256)358-4202  
Fax: (256)358-4515  
www.alspi.com

**Quote**

Please visit our Website at [www.alspi.com](http://www.alspi.com)

Quote Number: 69386  
Page: 1 of 2



<p><b>Quote To:</b>                      <b>Customer#:</b> P0001</p> <p>QUOTE REQUESTOR SEE BELOW</p>	<p><b>Date:</b> 10/6/2011</p> <p><b>Expires :</b> 11/7/2011</p> <p><b>Terms :</b> PREPAY</p> <p><b>Sales Person:</b> ANDREW ABBOTT</p> <p>andrewa@alspi.com</p>
---	---

Line	Part Number	Description	Rev	Drawing								
1	TF2433727	3/4 SCH 80 PVC BYPASS SYSTEM 4-C1010		TF2433								
<b>Lead Time</b> 2-3 WEEKS ARO												
THIS IS A 3/4" NPT SCH 80 PVC BYPASS RACK WITH 4 COUPON STATIONS. SUPPLIED WITH AN 5 GPM FLOW CONTROL ORIFICE AND (4) CO100 - C1010 MILD CARBON STEEL COUPONS.												
3/4" BYPASS SYSTEM INCLUDES: 1 - 4 STATION 3/4" SCH 80 PVC BYPASS PIPING BODY 1 - 5 GPM FLOW CONTROL & GASKET 4 - CO100 - MILD STEEL (C1010) COUPONS 4 - 1/2" NPT PVC PLUGS WITH 3" NYLON STEMS AND NYLON HARDWARE.												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Quantity</th> <th style="width: 25%;">Unit Price</th> <th style="width: 25%;">Disc %</th> <th style="width: 25%;">Net Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.00EA</td> <td style="text-align: center;">158.85/1</td> <td></td> <td style="text-align: center;">158.85</td> </tr> </tbody> </table>					Quantity	Unit Price	Disc %	Net Price	1.00EA	158.85/1		158.85
Quantity	Unit Price	Disc %	Net Price									
1.00EA	158.85/1		158.85									
2	CO1005190104100	DUCTILE(65-45-12),BD,S&A,WGH,,	1	MDB-000597								
<b>Lead Time</b> 2-3												
DIMENSIONS: 1/16" THICK X 1/2" WIDE X 3" LONG WITH A 3/16" DIAMETER HOLE, 1/4" FROM END CENTERED WITH 1/8" RADIUS CORNERS. MATERIAL: DUCTILE CAST IRON 65-45-12 FINISH: GLASS BEAD BLASTED STENCIL: SEQUENCE NUMBER AND ALLOY PRE-WEIGHED AND INDIVIDUALLY PACKED IN VCI BAGS												
CAST MATERIALS CONTAIN POROSITY. COUPONS CONTAINING POROSITY WILL BE CONSIDERED GOOD COUPONS.												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Quantity</th> <th style="width: 25%;">Unit Price</th> <th style="width: 25%;">Disc %</th> <th style="width: 25%;">Net Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">10.00EA</td> <td style="text-align: center;">33.05/1</td> <td></td> <td style="text-align: center;">330.50</td> </tr> </tbody> </table>					Quantity	Unit Price	Disc %	Net Price	10.00EA	33.05/1		330.50
Quantity	Unit Price	Disc %	Net Price									
10.00EA	33.05/1		330.50									
3	LP327E20311000	2 ELEC,G10,11",RETRAC,3/4"NPT		LP327E203M								
<b>Lead Time</b> 1-2DAYS ARO												
SEE ATTACHED SPEC SHEET.												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Quantity</th> <th style="width: 25%;">Unit Price</th> <th style="width: 25%;">Disc %</th> <th style="width: 25%;">Net Price</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.00EA</td> <td style="text-align: center;">170.00/1</td> <td></td> <td style="text-align: center;">170.00</td> </tr> </tbody> </table>					Quantity	Unit Price	Disc %	Net Price	1.00EA	170.00/1		170.00
Quantity	Unit Price	Disc %	Net Price									
1.00EA	170.00/1		170.00									
4	TF2453727	PVC 3/4"BYPASS SYS 4STA.W/PROBE PORT		TF2453								
<b>Lead Time</b> 2-3 WEEKS ARO												
BYPASS LOOP TO HOLD COUPONS AND PROBE AT THE SAME TIME. SEE ATTACHED DRAWING.												

Metal Samples Company  
P.O. Box 8  
152 Metal Samples Road  
Munford, AL 36268  
Phone: (256)358-4202  
Fax: (256)358-4515  
www.alspi.com

**Quote**  
Please visit our Website at [www.alspi.com](http://www.alspi.com)

Quote Number: 69386  
Page: 2 of 2



Line	Part Number	Description	Rev	Drawing	
		<b>Quantity</b>	<b>Unit Price</b>	<b>Disc %</b>	<b>Net Price</b>
		1.00EA	222.35 /1		222.35
5	EL4003752800000	C1010,CG,,,,,	1	EL400	
		<b>Lead Time</b>		1-2DAYS ARO	
		<b>Quantity</b>	<b>Unit Price</b>	<b>Disc %</b>	<b>Net Price</b>
		2.00EA	7.90 /1		15.80

DAVID SCHUMAN  
GLOBALTECH, INC.  
PH:(561)997-6433  
FX:(561)997-5811  
EMAIL:DSCHUMAN@GLOBALTECHDB.COM

**\*PLEASE NOTE THAT DUE TO THE UNSTABLE METAL MARKET. PRICE MAY CHANGE UPON RECEIPT OF ORDER.  
\*UNLESS SPECIFICALLY STATED PRICES QUOTED DO NOT INCLUDE BOXES, PALLETS, OR FREIGHT CHARGES.**

*The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by ASPI. All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by the Seller before final acceptance.*

*Typographical and stenographic errors subject to correction. Purchaser agrees to accept either overage or shortage not in excess of ten percent to be charged for prorated. Purchaser assumes liability for patent and copyright infringement when goods are made to Purchaser's specifications. When quotation specifies material to be furnished by the purchaser, ample allowance must be made for reasonable spoilage and material must be of suitable quality to facilitate efficient production.*

*Conditions not specifically stated herein shall be governed by established trade customs. Terms inconsistent with those stated herein which may appear on Purchaser's formal order will not be binding on the Seller.*

*Charges for tooling and/or gauges do not convey ownership unless agreed upon in writing by the seller. For additional terms and conditions please check our website, <http://www.alspi.com/ASPITerms.htm>.*



**Rohrback Cosasco Systems, Inc.**  
 11841 E. Smith Avenue  
 Santa Fe Springs CA 90670  
 Phone: 562-949-0123  
 Fax: 562-949-3065  
 www.Cosasco.com



ISO 9001:2008  
 Certificate No. FM 10694

**Quote**

**QUOTE NO: 102378**

Page: 1 of 3

<p><b>Quote To:</b></p> <p>GLOBAL          Global Tech, Inc.          1075 Broken Sound Parkway          Suite 103          Boca Raton FL 33487          USA</p> <p>Attn: Mr. Schuman          Phone: 561/997-6433          Fax: 561/997-5811          Email: dschuman@globaltechdb.com</p>	<p>Date: 10/11/2011          Expires: 01/09/2012          Reference: Phone Call 10/11/11          Terms: CASH IN ADVANCE          FOB: Santa Fe Springs Dock          Ult. Dest: FLORIDA</p> <p>Approx. Gross Weight: 100.00 Lbs. 45.45 Kgs          Approx. Cubic FT: 4.00          Delivery Period: 4-5 weeks See Notes Below          Quoted By: Kevin Minegar          Phone: 562-949-0123 Ext 207          Fax:          Email: KMinegar@cosasco.com</p>
---	---

We quote the following per our standard terms and conditions to meet your equipment requirements:

United States Dollar

Line	Part Number	Description	Quantity	Unit Price	Net Price
1	6112-0-0-1	PROBE ASSY, 6112 CA W/ MOUNTING ADAPTER	1.00EA	\$210.00	\$210.00
2	060814-K03005	ELECTRODE KIT, CORRATER- CARBON STEEL	1.00EA	\$19.00	\$19.00
3	060814-F12801	ELECTRODE KIT, CA GRAY CAST IRON	1.00EA	\$210.00	\$210.00
4	SCA-1-2-1-115	CORRATER UNIT ASSY MODEL SCA-1 (CE) WITH 4-20 mA OUTPUT	1.00SN	\$1,695.00	\$1,695.00





Rohrback Cosasco Systems, Inc.

11841 E. Smith Avenue  
Santa Fe Springs CA 90670

Phone: 562-949-0123

Fax: 562-949-3065

www.Cosasco.com



ISO 9001:2008  
Certificate No. FM 10694

**Quote**

QUOTE NO: 102378

Page: 2 of 3

Line	Part Number	Description	Quantity	Unit Price	Net Price
5	SCA-1L-2-3-115	CORRATER UNIT ASSY MODEL SCA-1L (CE) WITH DATA LOGGER	1.00SN	\$2,050.00	\$2,050.00
6	CBL2-B-1-1-0-100	CABLE ASSY, CORRATER - FOR 2 ELEMENT CA PROBES FACTORY ASSEMBLED.	1.00EA	\$370.00	\$370.00
7	RDC-CAT-B-3-3	REMOTE DATA COLLECTOR RDC-CAT CORRATER W/ 14 AH BATTERY PACK W/ ATEX CERTIFICATION W/ U.L. CERTIFICATION NEMA 4X ENCLOSURE HERMETIC SLD. ELECTRONICS	1.00SN	\$2,995.00	\$2,995.00
8	710815-A-100	CABLE ASSY, PROBE- RDC-CAT 100 FT.	1.00EA	\$400.00	\$400.00

TOTAL EXW FACTORY SANTA FE SPRINGS-CA **\$7,949.00**

**NOTES:**

1. If any additional vendor documentation, special testing or third party inspection is required it will be quoted upon receipt of your specification.
2. We offer a complete range of product related services including front-end engineering, installation, commissioning training, field coupon and probe change-outs, data retrieval and reporting. Please contact us if we can support you in any way.
3. We maintain an ISO 9001: 2008 Quality Program for the design and manufacture of all our equipment. It is certified by BSI Quality Assurance (Certificate of Registration Number FM 10694).



**Rohrback Cosasco Systems, Inc.**

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Santa Fe Springs CA 90670

Phone: 562-949-0123

Fax: 562-949-3065

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**ISO 9001:2008**  
Certificate No. FM 10694

**Quote**

**QUOTE NO: 102378**

**Page: 3 of 3**

**EXWORKS DELIVERY:** 4-5 weeks after receipt of purchase order and approved drawings (if required, authorizing us to commence manufacture) in our Santa Fe Springs Office.

NLR general license classification applies to all of our equipment. ECCN# EAR99.

All goods subject to U.S. export regulations as applicable.

All freight charges from our Santa Fe Springs factory to customer's designated location will be prepaid and add.

Due to the delicate nature of equipment quoted all shipments in excess of 75 pounds will be crated in a wooden box.

Items quoted herein are of the United States of America origin and prices quoted are in U.S. dollars.

Quoted prices remain firm through shipment provided that your written purchase order is received in our Santa Fe Springs office within 90 day validity period of this quotation.

Our quote reference number must appear when placing your order, or on any written/faxed inquiries on above quotation.

**MAIL REMITTANCE ADDRESS**  
Rohrback Cosasco Systems, Inc.  
11841 East Smith Avenue  
Santa Fe Springs, CA 90670  
USA

**DOMESTIC WIRE TRANSFERS**  
Manufacturers Bank  
515 South Figueroa Street  
Los Angeles, CA 90071 (USA)  
ABA No: 122226076  
Acct. Name: Rohrback Cosasco Systems, Inc.  
Acct. No: 70000-50886

**INTERNATIONAL WIRE TRANSFERS**  
Manufacturers Bank  
515 South Figueroa Street  
Los Angeles, CA 90071 (USA)  
Swift Code: MITKUS6L  
Acct. Name: Rohrback Cosasco Systems, Inc.  
Acct. No: 70000-50886

**We accept VISA, MASTERCARD, AMEX and DISCOVER**

# **Electron Corp of South Fla.**

**Electrical Contractor**

6421 Winding Lake Dr. Jupiter, FL 33458  
(561) 744-1388 Fax (561) 744-5777

October 11, 2011

## **SROC DIW Piping Modifications**

Electron Corp. of South Florida Proposes to Furnish and install the following sections complete with the exceptions as listed:

1. Section 16010 Basic Electrical Requirements;
2. Section 16050 Basic Electrical Materials & Methods;
3. Section 16110 Raceways;
4. Section 16120 Conductors;
5. Section 16450 Grounding;
6. Section 16485 Variable Frequency Drives;

### **Exceptions:**

1. Quote does not include Section 16405 Electric Motors;

**Bid \$ 189,262.00**

Please feel free to call me should you have any questions.



Albert Laessig  
President

## **Attachment F**

### **60-percent Complete Project Drawings**



# PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

## SROC DIW MODIFICATION

WUD PROJECT No. 09-059

**IT'S THE LAW!**  
 CALL 48 HOURS BEFORE YOU DIG  
**1-800-432-4770**  
 SUNSHINE STATE ONE CALL OF FLORIDA, INC.  
 UTILITIES NOTIFICATION CENTER

**BOARD OF COUNTY COMMISSIONERS**

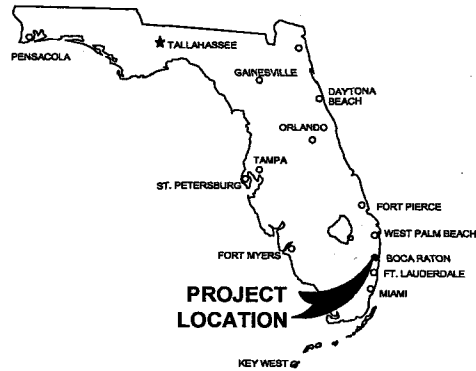
KAREN T. MARCUS, CHAIRPERSON	DISTRICT 1
SHELLY VANA, VICE CHAIRPERSON	DISTRICT 3
PAULETT BURDICK	DISTRICT 2
STEVEN L. ABRAMS	DISTRICT 4
BURT AARONSON	DISTRICT 5
JESS R. SANTAMARIA	DISTRICT 6
PRISCILLA TAYLOR	DISTRICT 7

**COUNTY ADMINISTRATOR**

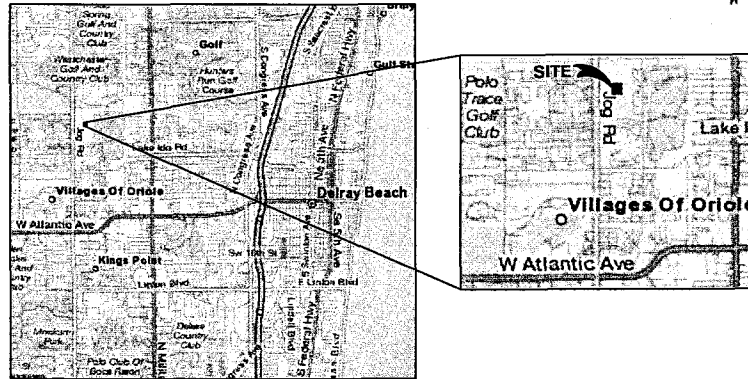
ROBERT WEISMAN  
 SHANNON LaROCQUE, P. E. COUNTY ADMINISTRATOR  
 ASSISTANT COUNTY ADMINISTRATOR

**WATER UTILITIES DEPARTMENT**

BEVIN BEAUDET, P. E. DIRECTOR  
 BRIAN SHIELDS, P. E. DEPUTY DIRECTOR  
 MAURICE TOBON, P. E. ENGINEERING DIRECTOR  
 LARRY JOHNSON, P. E. ASSISTANT UTILITY DIRECTOR



**VICINITY MAP**  
 NTS



**LOCATION MAP**  
 NTS

**INDEX OF DRAWINGS**

SHEET No.	DWG. No.	TITLE	SHEET No.	DWG. No.	TITLE
0	G-1	COVER SHEET	24	I-1	INSTRUMENTATION LEGEND & SYMBOLS
1	G-2	GENERAL, CIVIL & STRUCTURAL NOTES & LEGEND	25	I-2	DIW PUMP STATION P & ID
2	G-3	MECHANICAL LEGEND	26	I-3	DIW P & ID
3	Y-1	YARD PIPING	27	I-4	PANEL PCMS DETAILS - SHEET 1
4	M-1	DIW PUMP STATION PLAN & SECTIONS	28	I-5	PANEL PCMS DETAILS - SHEET 2
5	M-2	DIW PUMP STATION DETAILS	29	I-6	PANEL PCMS DETAILS - SHEET 3
6	M-3	CORROSION MONITORING SYSTEM	30	I-7	PANEL PCMS DETAILS - SHEET 4
7	M-4	DIW PUMP STATION MODIFICATIONS SCHEMATIC	31	I-8	INSTRUMENTATION DETAILS
8	N-5	MC LINE REPLACEMENT			
9	N-6	MC LINE REPLACEMENT DETAILS			
10	N-7	SRWRP MCFM INTERCONNECT			
11	N-8	STANDARD DETAILS			
12	N-9	STANDARD DETAILS			
13	N-10	STANDARD DETAILS			
14	E-1	ELECTRICAL LEGEND & SYMBOLS			
15	E-2	ELECTRICAL GENERAL NOTES & SPECIFICATIONS			
16	E-3	ELECTRICAL SITE PLAN			
17	E-4	INJECTION WELL PUMP STATION ELECTRICAL PLAN			
18	E-5	DIW ELECTRICAL BUILDING PLAN			
19	E-6	ONE LINE DIAGRAM			
20	E-7	SCHEMATIC DIAGRAMS & SCHEDULES			
21	E-8	RISER DIAGRAMS			
22	E-9	DETAILS			
23	E-10	DETAILS			

For information regarding this project, contact:

DAVID SCHUMAN, P.E.  
 Globaltech, Inc.  
 1075 Broken Sound Blvd NW, Suite 103  
 Boca Raton, Florida 33487  
 Phone: (561) 997-8433 Fax: (561) 997-5811  
 Certificate of Authorization No. E.B.-0007225  
 License No. C.G.C. 1507230

**Globaltech**  
 A DESIGN - BUILD COMPANY

*REPRODUCTION: ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.*

David Schuman, P.E.  
 No. 52092

PROJECT No. GT-10-20-184

MAY 2011

**GENERAL NOTES**

- THE EXISTING UTILITIES SHOWN WERE LOCATED USING THE BEST INFORMATION AVAILABLE. IT IS NOT GUARANTEED THAT ALL EXISTING UNDERGROUND FACILITIES ARE SHOWN OR THAT THEIR LOCATIONS ARE ACCURATE. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES NOT SHOWN ON THE PLANS EXIST WITHIN THE AREA OF CONSTRUCTION, SHOULD THERE BE "OTHER UTILITIES". CONFLICTS OR DISCREPANCIES THE CONTRACTOR SHALL OBTAIN THE NECESSARY ELEVATIONS, DIMENSIONS AND OTHER PERTINENT DATA. CONTRACTOR TO NOTIFY THE RESPECTIVE UTILITY AGENCY AND THE ENGINEER TO RESOLVE UTILITY CONFLICTS AND ADJUSTMENTS, AS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES AND IMPROVEMENTS FROM DAMAGE, DISRUPTION OF SERVICE OR DESTRUCTION. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE APPROPRIATE UTILITY AGENCY, AND ANY AND ALL COSTS INCURRED DUE TO DAMAGE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- SEWER & WATER SERVICE SHALL BE MAINTAINED DURING ENTIRE CONSTRUCTION PERIOD.
- EXISTING UTILITIES AND DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS AND SPECIFICATIONS ON SITE.
- EXISTING SECTION CORNERS AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE MAINTAINED BY THE CONTRACTOR AND/OR RESET AFTER CONSTRUCTION BY A REGISTERED LAND SURVEYOR.
- COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATIONS AND ELEVATIONS OF STRUCTURES, LENGTHS AND INVERT OF PIPES AND THE LIKE SHALL BE ACCURATELY RECORDED AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL INFORMATION SHALL BE TAKEN BY A REGISTERED LAND SURVEYOR AND SHOWN ON A SIGNED AND SEALED AS-BUILT PLAN.
- CONTRACTOR SHALL, AS A MINIMUM, HAVE A REGISTERED LAND SURVEYOR LAYOUT THE WORK AND PROVIDE A COPY OF SIGNED AND SEALED FIELD NOTES UPON COMPLETION OF WORK. FIELD NOTES SHALL BE MADE AVAILABLE TO THE ENGINEER AT ANY TIME IF REQUIRED.
- ALL DEVIATIONS FROM PLANS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AND FOR ALL INSPECTIONS AND TESTING.
- THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS A MINIMUM OF 48 HOURS IN ADVANCE, EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.
- UPON COMPLETION OF CONSTRUCTION, A FINAL INSPECTION WILL BE CONDUCTED TO VERIFY IF THE WORK COMPLETED IS IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- ADJUST ALL EXISTING UTILITY COVERS, FRAMES, GRATES, CASTINGS AND LIDS (TO REMAIN) WITHIN THE LIMITS OF CONSTRUCTION TO BE FLUSH WITH THE FINISHED GRADE.
- CONTRACTOR TO CONTACT SUNSHINE STATE ONE CALL OF FLORIDA INC. (811) AND LOCAL UTILITY COMPANIES FOR UNDERGROUND UTILITY LOCATION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFFSITE DISPOSAL OF ALL MATERIALS AND DEBRIS OBTAINED FROM THE CLEARING, GRUBBING AND DEMOLITION OPERATIONS. THE COST ASSOCIATED WITH HAULING AND DISPOSAL OF THESE ITEMS SHALL BE AN INCIDENTAL TO THE CORRESPONDING REMOVAL BID ITEMS.
- ITEMS CALLED FOR TO BE RELOCATED SHALL BE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- AREAS OF DEMOLITION AND TRENCHING WHICH WILL REMAIN UNPAVED SHALL BE FILLED, GRADED AND SODDED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY PRECAUTIONS DURING EXCAVATION AND TRENCHING OPERATIONS AS REQUIRED BY THE "TRENCH SAFETY ACT".
- CONTRACTOR SHALL EXERCISE CAUTION WHILE WORKING IN AND AROUND OVERHEAD TRANSMISSION LINES.
- ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFETY BARRIERS AND STEEL PLATE COVERINGS FOR OPEN TRENCHES, AS REQUIRED. DO NOT LEAVE OPEN TRENCHES OVERNIGHT WITHOUT PROTECTION.
- THE EXISTING ELEVATIONS SHOWN HEREON ARE FOR THE PURPOSE OF INDICATING THE GROUND ELEVATION ONLY AT THE POSITION SHOWN AND IN NO WAY SHOULD INDICATE ELEVATION AT ANY OTHER POINT OTHER THAN THAT SHOWN.
- PROVIDE NEAT SAW CUTS AT LIMITS OF PAVEMENT REMOVAL, CONCRETE SIDEWALKS, CURB AND GUTTERS.
- PROVIDE A SMOOTH SURFACE TRANSITION BETWEEN NEW AND EXISTING ASPHALT PAVEMENTS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING ABOVE GROUND AND SURFACE FEATURES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ALL PAVEMENT, GRASS AREAS, STRUCTURES, IRRIGATION, SIGNAGE AND MARKING DISRUPTED AS A RESULT OF THE CONSTRUCTION EFFORT SHALL BE RESTORED TO ITS ORIGINAL CONDITION PRIOR TO THE COMPLETION OF THE PROJECT AT NO ADDITIONAL COST.

**MECHANICAL NOTES**

- ALL NEW PIPING SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER. NEW PIPE SHALL BE DIP UNLESS SPECIFIED OTHERWISE.
- NEW PVC PIPE SHALL BE C-900905 PVC-DR-18 WITH DUCTILE IRON FITTINGS UNLESS SHOWN OTHERWISE.
- NEW DUCTILE IRON PIPE SHALL MEET AWWA C110/A21.10 AWWA C115/A21.15 & AWWA C151/A21.51. CLASS S1 FOR LESS THAN 12" DIAMETER, CLASS S2 FOR 12" AND LARGER & CLASS S3 FOR EXPOSED PIPING. CEMENT LINING EXCEPT FOR MC PIPING WHICH SHALL BE EPOXY 401 LINED, OR EQUAL.
- NEW HDPE PIPE SHALL MEET ASTM D3550 TYPE PE 3408 SDR 11. FITTINGS SHALL BE BUTT-FUSED.
- TEST PRESSURE SHALL BE 150 PSI.
- PROVIDE JOINT RESTRAINT AT ALL VALVES & FITTINGS AND AS WHERE SHOWN ON THE DRAWINGS.
- PRODUCTS SHALL BE LISTED IN THE PBCWUD APPROVED MATERIALS & EQUIPMENT LIST, WHERE APPLICABLE.
- ALL DUCTILE IRON PIPE AND PIPE FITTINGS SHALL BE PAINTED WITH A 4" WIDE LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. PAINT & COLOR SHALL BE AS SPECIFIED BY PBCWUD.
- ALL MAINS SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF 6" WIDE MAGNETIC CODED TAPE IMPRINTED WITH TWO (2) INCH HIGH LETTERING, AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET. LETTERING SHALL BE AS SPECIFIED BY PBCWUD.
- DEVELOP SCHEDULE INCLUDE SEQUENCE OF CONSTRUCTION & SHUTDOWN REQUIREMENTS PRIOR TO BEGINNING CONSTRUCTION.





































**RECORD DRAWING PREPARATION NOTES:**

- RECORD DRAWINGS TO BE PREPARED IN STATE PLANE COORDINATE SYSTEM.
- ALL UTILITY FEATURES SHALL BE SHOWN IN THEIR AS-BUILT LOCATION.
- STATE PLANE COORDINATES SHALL BE DISPLAYED ON RECORD DRAWINGS FOR ALL FEATURES SPECIFIED IN PBCWUD REQUIREMENTS.
- COLLECT RECORD DRAWING INFORMATION FOR ALL EXISTING UTILITIES ENCOUNTERED DURING WORK.

**CIVIL & STRUCTURAL NOTES**

- ALL NEW CONCRETE SHALL CONFORM TO TYPE II PORTLAND CEMENT MEETING 4000 psi 4" 7'-1" SLUMP.
- REINFORCING BARS SHALL CONFORM TO ASTM A-615 GRADE 60 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- HARDWARE SHALL BE 316 STAINLESS STEEL.
- INSTALL & MAINTAIN SHORING, SHEETING, BRACING & SLOPING NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION, TO KEEP & PREVENT ANY MOVEMENT WHICH MAY DAMAGE ADJACENT PAVEMENTS, UTILITIES OR STRUCTURES, DAMAGE OR DELAY THE WORK OR ENDANGER LIFE OR HEALTH. COMPLY WITH OSHA & OTHER APPLICABLE GOVERNMENTAL REGULATIONS.
- EXCAVATION IS UNCLASSIFIED.

**LEGEND**

-  NEW UTILITY PIPE LINE
-  EXISTING UTILITY PIPE LINE
-  BURIED TELEPHONE MARKER
-  WATER VALVE
-  WATER METER
-  FIRE HYDRANT
-  CONCRETE POWER POLE
-  CATCH BASIN
-  ELECTRIC SERVICE OR DEVICE
-  CABLE TELEVISION PEDESTAL
-  TELEPHONE PEDESTAL
-  SIGN
-  CONTROL POINT
-  STAKE FOR FUTURE WELL LOCATION
-  WATER MAIN (SIZE & TYPE)
-  SANITARY SEWER (SIZE & TYPE)
-  SANITARY SEWER FORCE MAIN (SIZE & TYPE)
-  TELEPHONE DUCT
-  LEC ELECTRICAL DUCT
-  BURIED FIBER OPTIC
-  OVERHEAD ELECTRICAL
-  STORM DRAIN (SIZE & TYPE)
-  GAS MAIN
-  SANITARY SEWER MANHOLE
-  STORM MANHOLE
-  VALVE BOX
-  POST
-  POLE
-  ANCHOR & GUY WIRE
-  BACKFLOW PREVENTER
-  CHAIN LINK FENCE
-  RAILROAD TRACK
-  STRUCTURE
-  IRRIGATION CONTROL VALVE
-  GRADE CONTOUR
-  RAW - RIGHT OF WAY

**ABBREVIATIONS**

- CIP CAST IRON PIPE
- PVC POLYVINYL CHLORIDE PIPE
- DIP DUCTILE IRON PIPE
- RJ RESTRAINED JOINT
- MJ MECHANICAL JOINT
- FM FORCE MAIN
- WM WATER MAIN
- RW RAW WATER
- RC RECLAIMED WATER
- F.E.C. RR FLORIDA EAST COAST RAILROAD
- V-# VALVE NUMBER

**FOR PERMITTING**

REV. NO.	DATE	DRAWN	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN	DATE: MAY 2011
DRAWN BY: O. BLUM	
CHECKED BY: A. MOORE	
CREATED BY: D. SCHUMAN	
APPROVED BY: DAVID SCHUMAN, P.E.	# 92092

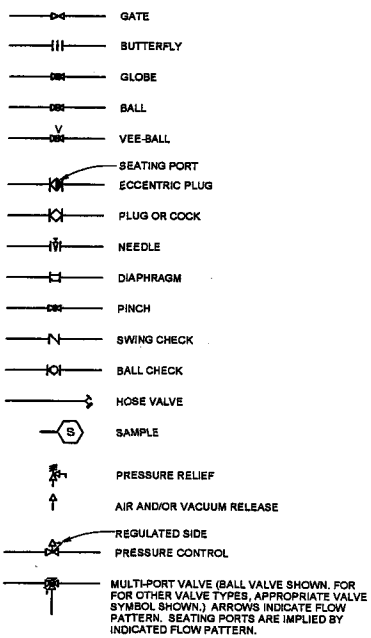
**Globaltech**  
A DESIGN - BUILD COMPANY

1075 BROKEN BROWN PONY NW, SUITE 103  
BOCA RATON, FLORIDA 33487  
PH: (561) 997-8433  
FAX: (561) 997-5811  
LICENSE No. E.B.-0007225  
LICENSE No. C.C.C.-1507230

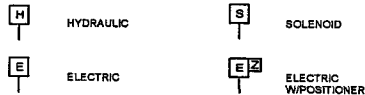
**SROC DIW MODIFICATION**  
**GENERAL, CIVIL, STRUCTURAL NOTES & LEGEND**

PROJECT NO. FILE NAME:	WUD 09-059 G-2.DWG
SHEET NO.	G-2

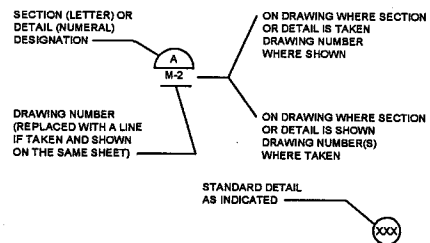
### VALVE SYMBOLS



### ACTUATOR SYMBOLS

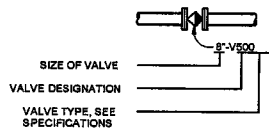


### GENERAL LEGEND

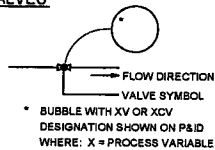


### VALVE DESIGNATIONS

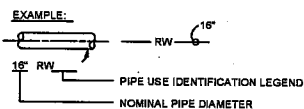
#### MANUAL VALVES AND CHECK VALVES



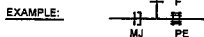
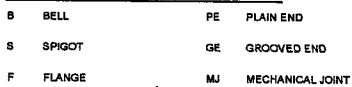
#### CONTROL VALVES



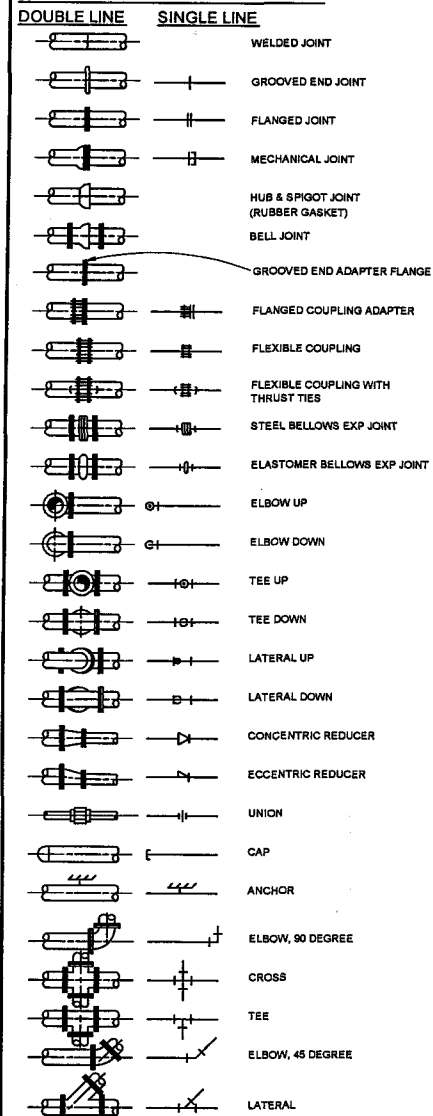
#### PIPING DESIGNATION



#### PIPE AND FITTING END PATTERNS



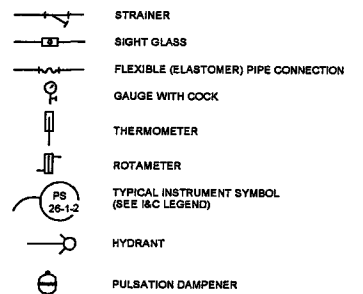
### PIPE AND FITTING SYMBOLS



### NOTES:

- SYMBOLS SHOWN HERE FOR SINGLE LINE FITTINGS ARE GENERIC ONLY. REFER TO PIPING SPECIFICATIONS FOR SPECIFIC END CONNECTIONS FOR SINGLE LINE PIPE AND FITTINGS.
- UNLESS OTHERWISE INDICATED, EXISTING PIPING AND EQUIPMENT IS SHOWN LIGHT-LINED AND/OR SCREENED AND IS NOTED AS EXISTING. NEW PIPING AND EQUIPMENT IS SHOWN HEAVY-LINED.

### MISCELLANEOUS PIPING SYMBOLS



### MECHANICAL LEGEND AND NOTES

#### GENERAL PIPING NOTES

- PROVIDE MINIMUM PIPE COVER, AS SPECIFIED, IN GENERAL, LAY PIPES TO UNIFORM GRADES BETWEEN THE ELEVATIONS SHOWN, UNLESS OTHERWISE APPROVED. IN SOME CASES, EXISTING CONDITIONS PROHIBIT UNIFORM GRADES BETWEEN THE ELEVATIONS SHOWN, AND FIELD ADJUSTMENTS TO UNIFORM GRADES ARE REQUIRED, AS APPROVED.
- SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED.
- LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIREMENTS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. MAXIMUM SPACING SHALL BE AS SPECIFIED.
- ALL JOINTS SHALL BE WATERTIGHT. STANDARD WALL PIPE DETAIL SHALL BE USED WHEREVER PIPING PASSES FROM A STRUCTURE TO BACKFILL.
- ALL FLEXIBLE CONNECTORS OR FLANGED COUPLING ADAPTERS SHALL BE PROVIDED WITH THRUST TIES, BLOCKS, OR ANCHORS, UNLESS OTHERWISE NOTED. THRUST PROTECTION SHALL BE ADEQUATE FOR PRESSURES SPECIFIED.
- SYMBOLS, LEGENDS, AND PIPE USE IDENTIFICATIONS SHOWN SHALL BE FOLLOWED THROUGHOUT THE PLANS, WHEREVER APPLICABLE. ALL OF THE VARIOUS PIPING APPLICATIONS INDICATED ARE NOT NECESSARILY USED IN THE PROJECT.
- ALL NEW BURIED PIPING SPECIFIED TO BE PRESSURE TESTED EXCEPT FLANGED, WELDED, OR SCREWED PIPING, SHALL BE PROVIDED WITH THRUST RESTRAINT, AS SPECIFIED AT ALL DIRECTIONAL CHANGES AND DEAD ENDS, UNLESS OTHERWISE NOTED.
- EXISTING BURIED PIPING TO BE CONNECTED TO NEW BURIED PIPING SHALL BE PROVIDED WITH MEGALUGS FOR DUCTILE IRON PIPE, OR COMPRESSION CLAMPS AND TIE RODS, FOR CAST IRON PIPE. ALL BURIED PUSH-ON JOINT PVC PIPE SHALL BE PROVIDED WITH THRUST TIES AND CLAMPS.
- NUMBER AND LOCATION OF UNIONS SHOWN ON PLANS IS ONLY APPROXIMATE. PROVIDE ALL UNIONS NECESSARY TO FACILITATE CONVENIENT REMOVAL OF VALVES AND MECHANICAL EQUIPMENT.
- WHERE A FLANGED COUPLING ADAPTER IS SHOWN, A STANDARD FLANGE SHALL BE JOINED TO THE COUPLING ADAPTER.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN  
 DRAWN BY: O. KLEIN  
 CHECKED BY: A. MOORE  
 CROSSLING BY: D. SCHUMAN  
 APPROVED BY: \_\_\_\_\_  
 DATE: MAY 2011

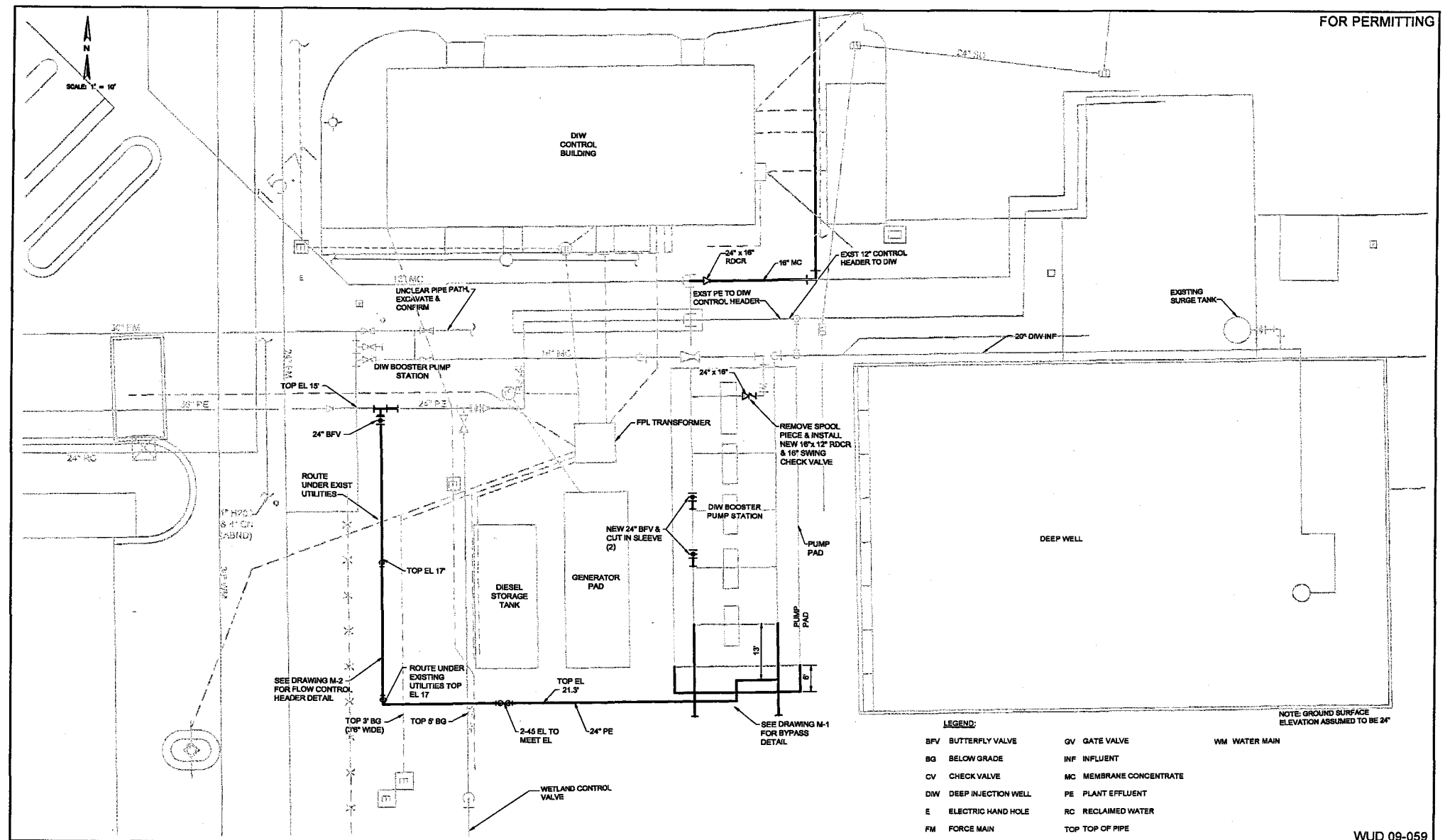
DAVID SCHUMAN, P. E.  
 # 62082

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 FAX: (561) 997-5811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

PROJECT NO. \_\_\_\_\_  
 FILE NAME: G-3.DWG  
 SHEET NO. \_\_\_\_\_  
**G-3**

WJD 09-059  
 SROC DIW MODIFICATION  
 MECHANICAL LEGEND

FOR PERMITTING



- LEGEND:**
- BFV BUTTERFLY VALVE
  - BG BELOW GRADE
  - CV CHECK VALVE
  - DIW DEEP INJECTION WELL
  - E ELECTRIC HAND HOLE
  - FM FORCE MAIN
  - GV GATE VALVE
  - INF INFLUENT
  - MC MEMBRANE CONCENTRATE
  - PE PLANT EFFLUENT
  - RC RECLAIMED WATER
  - TOP TOP OF PIPE
  - WM WATER MAIN

DESIGNED BY	D. SCHUMAN
DRAWN BY	O. KLEIN
SHEET CHECKED BY	A. MOORE
CROSS CHECKED BY	
APPROVED BY	
DATE	NOVEMBER 2010

DAVID SCHUMAN, P. E.  
No. 52662

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CERTIFICATE OF AUTH. No. E.B.-0007225  
LICENSE No. C.G.C-1507230

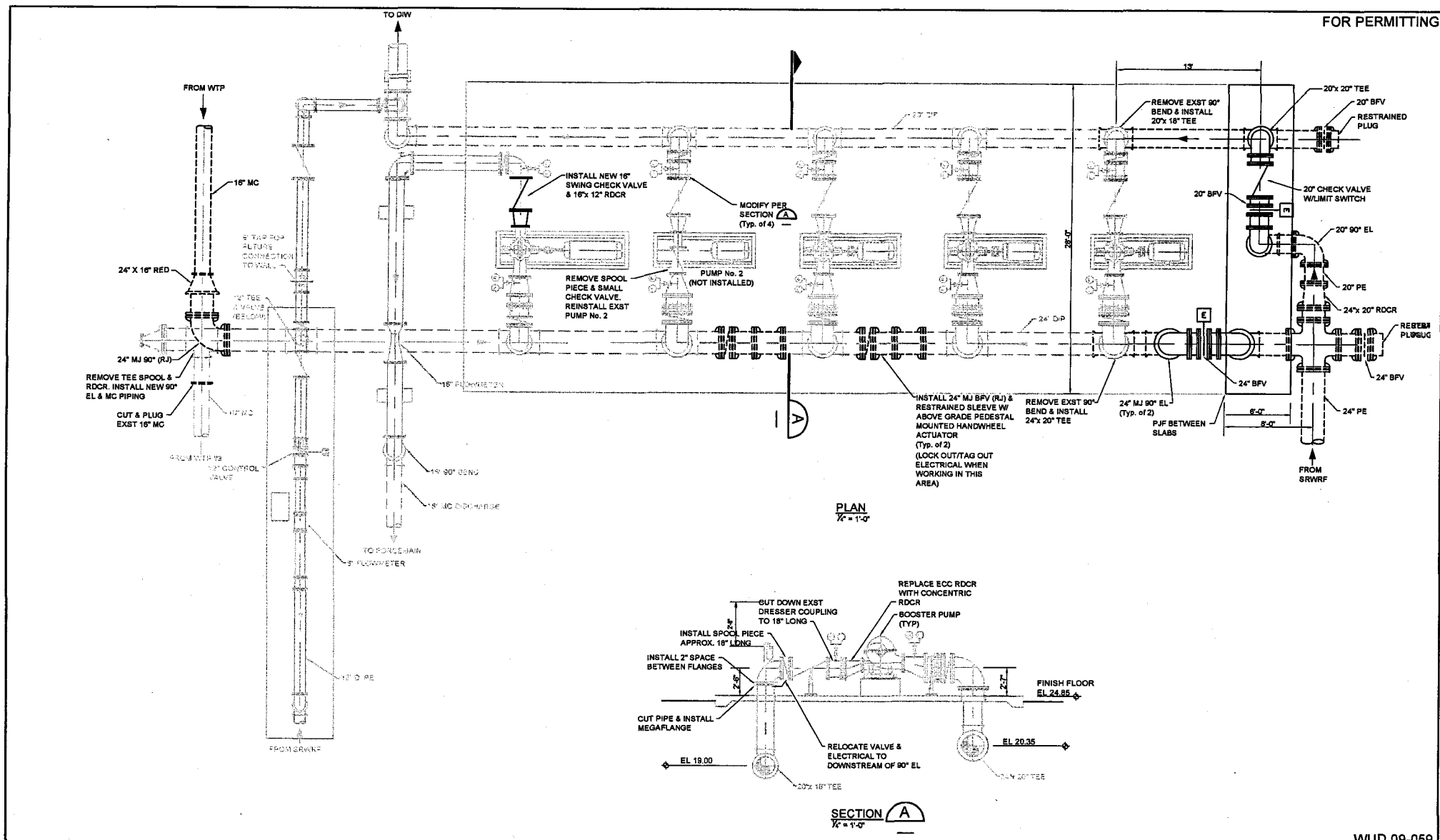
SRQC DIW PIPING MODIFICATIONS

**YARD PIPING**

PROJECT NO. Y-1.DWG  
SHEET NO. Y-1



FOR PERMITTING



REV. NO.	DATE	DRAWN	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN  
 DRAWN BY: D. KLEIN  
 CHECKED BY: A. MOORE  
 CHECKED BY: D. SCHUMAN  
 APPROVED BY: [Signature]  
 DATE: MAY 2011

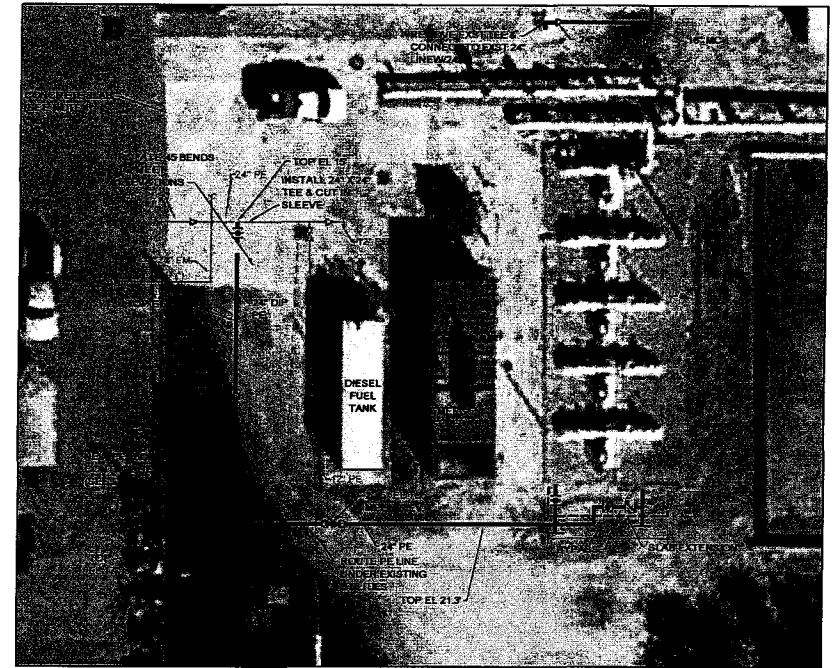
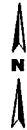
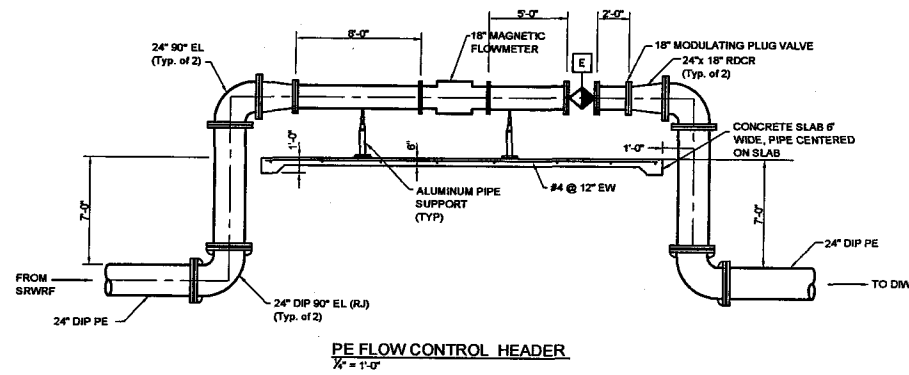
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 FAX: (561) 997-5811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

SROC DIW MODIFICATION  
 DIW PUMP STATION PLAN & SECTION

PROJECT NO. FILE NAME:	M-1.DWG
SHEET NO.	M-1

FOR PERMITTING

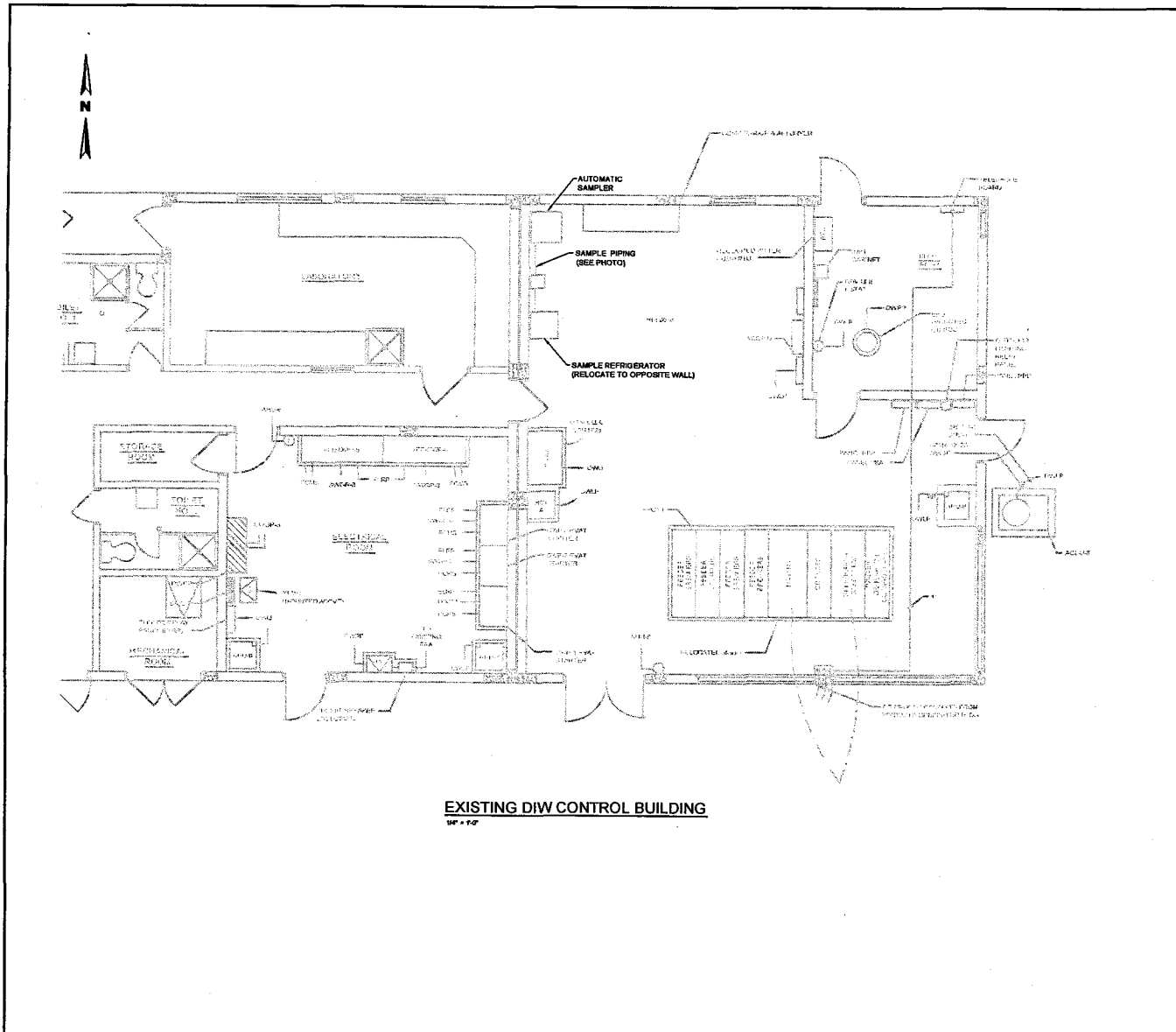


- LEGEND:**
- NEW PIPE
  - - - EXISTING PIPE
  - - - EXISTING DUCT BANK

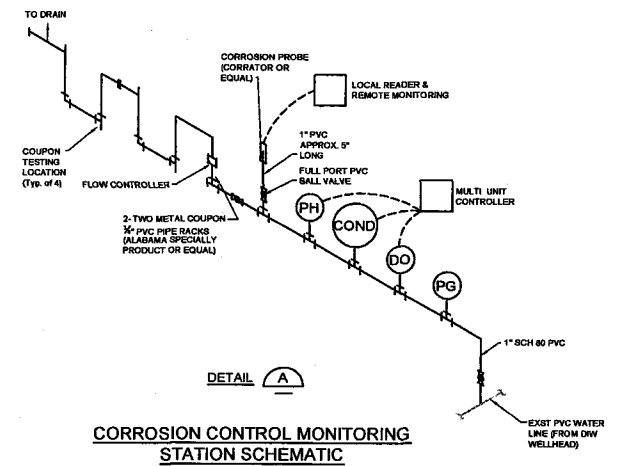
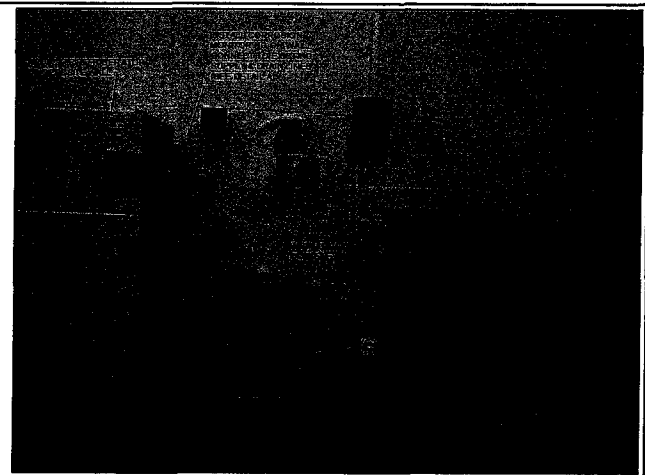
- NOTES:**
1. DEMOLISH EXISTING CONCRETE SLAB, APPROXIMATELY 53' X 40' X 6" THICK. EXCAVATE ALL PIPING UNDER SLAB. DETERMINE ACTUAL PIPING CONFIGURATION & OBTAIN NORTHING & EASTING COORDINATES & TOP OF PIPE ELEVATIONS FOR ALL FITTINGS & VALVES. FILL & COMPACT AFTER PIPE WORK IS COMPLETE. CONSTRUCT NEW SLAB CONFORMING TO EXISTING DESIGN & DIMENSIONS. REUSE EXISTING VALVE BOXES.
  2. GROUND SURFACE ELEVATION ESTIMATED TO BE 24'.

**PIPING MODIFICATIONS AERIAL PHOTO**  
NTS

				DESIGNED BY: <u>D. SCHUMAN</u>	<p><b>Globaltech</b> A DESIGN - BUILD COMPANY</p>	1075 BROKEN SOUND PKWY NW, SUITE 103 BOCA RATON, FLORIDA 33487 PH: (561) 997-5433 FAX: (561) 997-5811 LICENSE No. E.B.-0007225 LICENSE No. C.C.C.-1507230	SROC DIW MODIFICATION DIW PUMP STATION DETAILS	PROJECT NO. FILE NAME: M-2.DWG
				DRAWN BY: <u>A. MOORE</u>				APPROVED BY: <u>DAVID SCHUMAN, P.E.</u> # 52052
REV. NO.	DATE	DRAWN	CHKD	REMARKS				



**EXISTING DIW CONTROL BUILDING**  
10' x 10'



**CORROSION CONTROL MONITORING STATION SCHEMATIC**

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY D. SCHUMAN  
 DRAWN BY D. SCHUMAN  
 CHECKED BY I. LITAL  
 APPROVED BY D. SCHUMAN  
 DATE MAY 2011

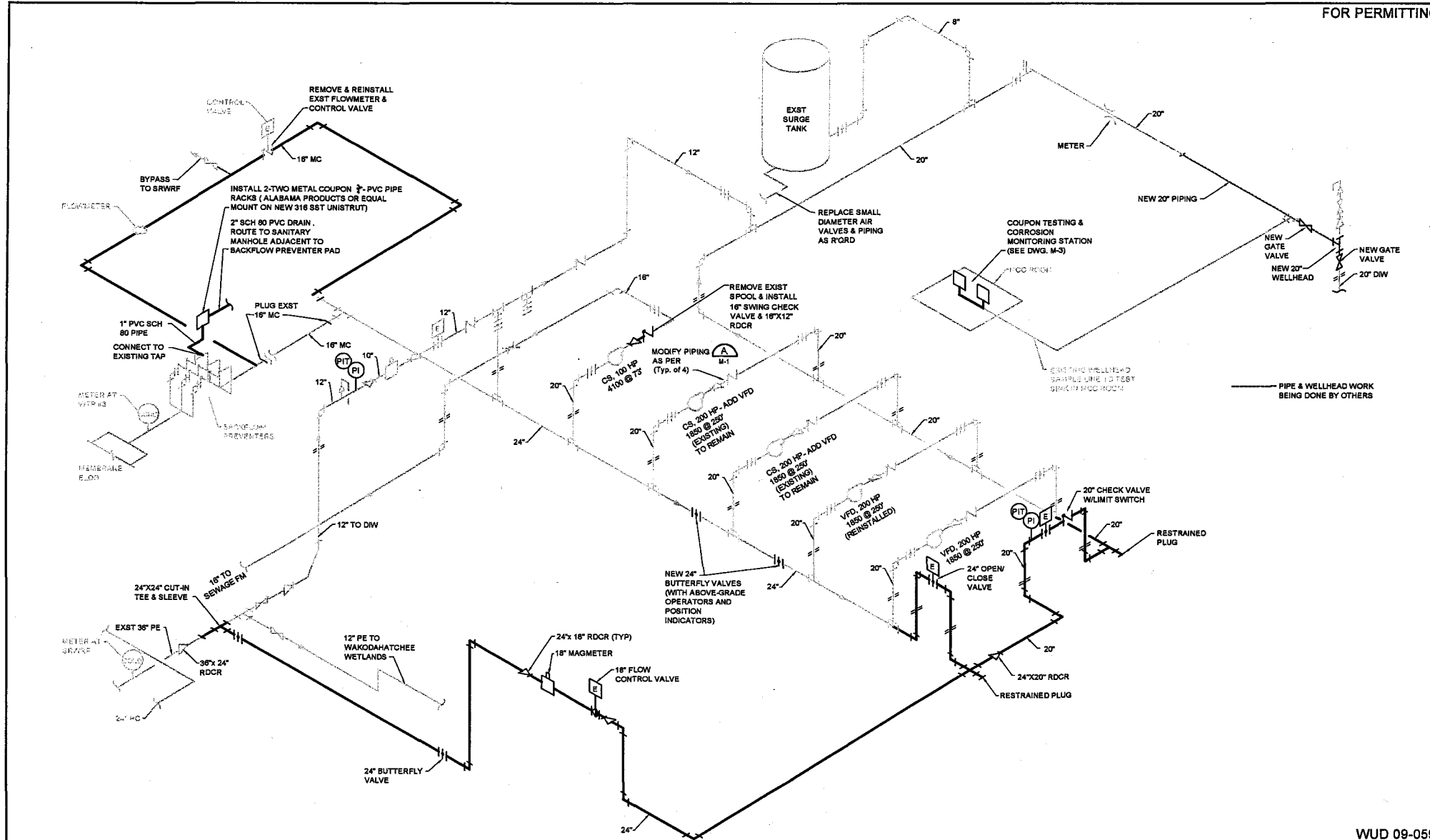
DAVID SCHUMAN, P.E.  
 # 62092

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1075 BROKEN SOUND PKWY NW, SUITE 103  
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 FAX: (561) 997-5811  
 LICENSE No. EB-0007225  
 LICENSE No. C.G.C-1507230

**SROC DIW MODIFICATION**  
**CORROSION MONITORING SYSTEM**

PROJECT NO. M-3.DWG  
 SHEET NO. M-3



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN  
 DRAWN BY: G. KLEIN  
 CHECKED BY: A. MOORE  
 CROSS CHECKED BY: D. SCHUMAN  
 APPROVED BY: [Signature]  
 DATE: MAY 2011

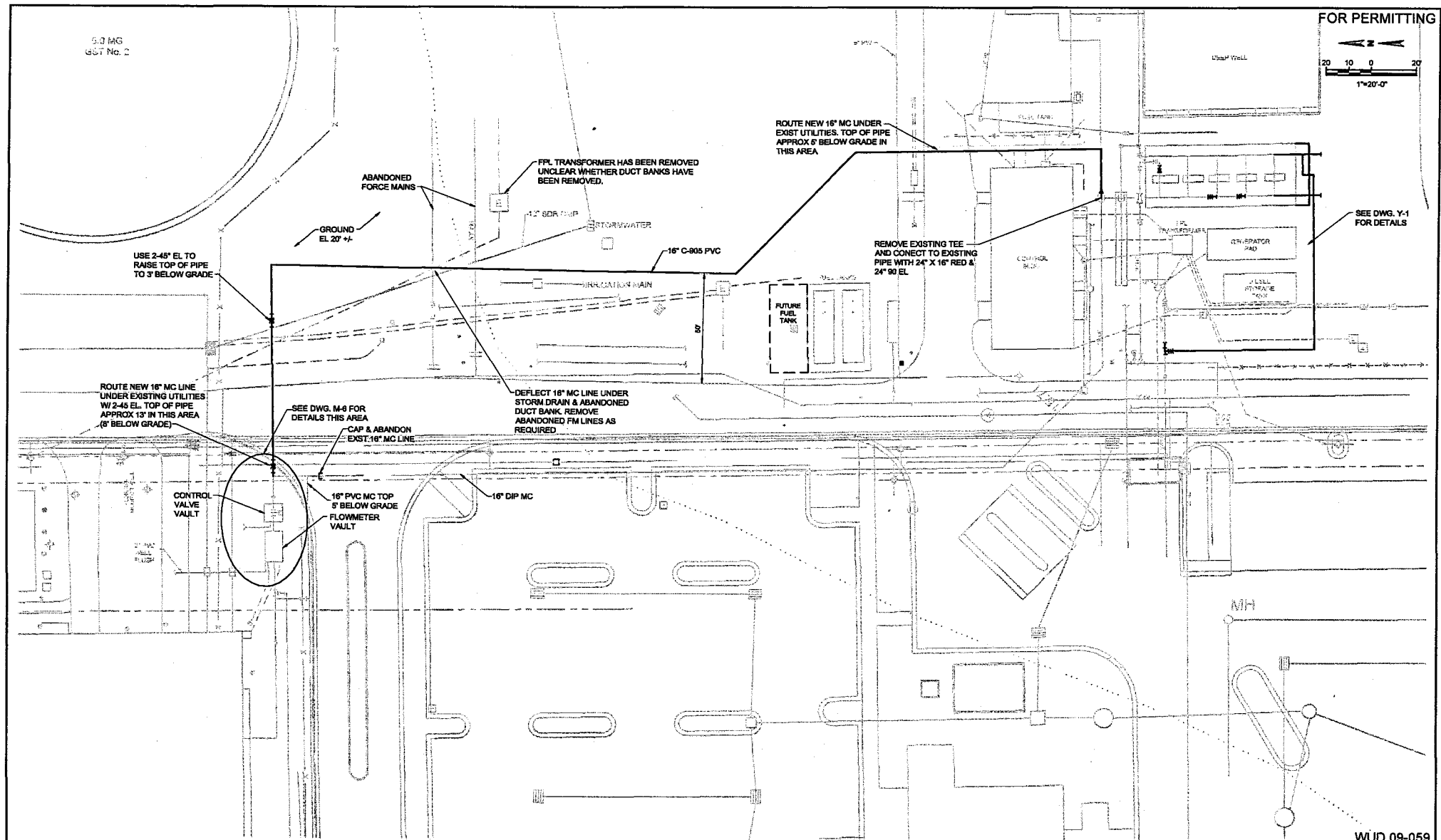
DAVID SCHUMAN, P. E.  
 # 52082

**Globaltech**  
 A DESIGN - BUILD COMPANY

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 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

**SROC DIW MODIFICATION**  
**DIW PUMP STATION MODIFICATIONS SCHEMATIC**

PROJECT NO. WUD 09-059  
 FILE NAME: M-4.DWG  
 SHEET NO. M-4



REV	NO	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN  
 DRAWN BY: G. KLEN  
 SHEET CHECKED BY: A. MOORE  
 CHECKED BY: D. SCHUMAN  
 APPROVED BY:  
 DATE: MAY 2011

DAVID SCHUMAN, P. E.  
 No. 52082

**Globaltech**  
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 CERTIFICATE OF AUTH. No. ELB-0007225  
 LICENSE No. C.G.C-1507230

SROC DW PIPING MODIFICATIONS

**MC LINE REPLACEMENT**

PROJECT NO.  
 FILE NAME: M-5.DWG

SHEET NO.  
**M-5**

WUD 09-059

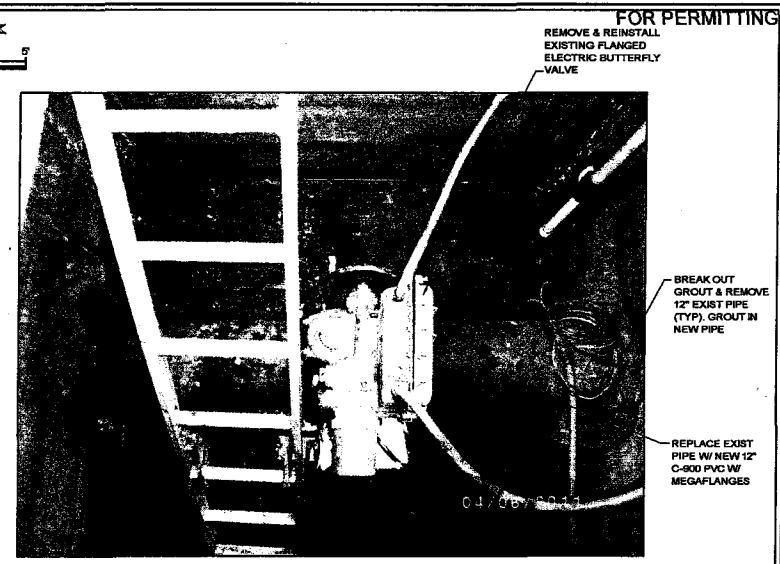
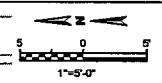
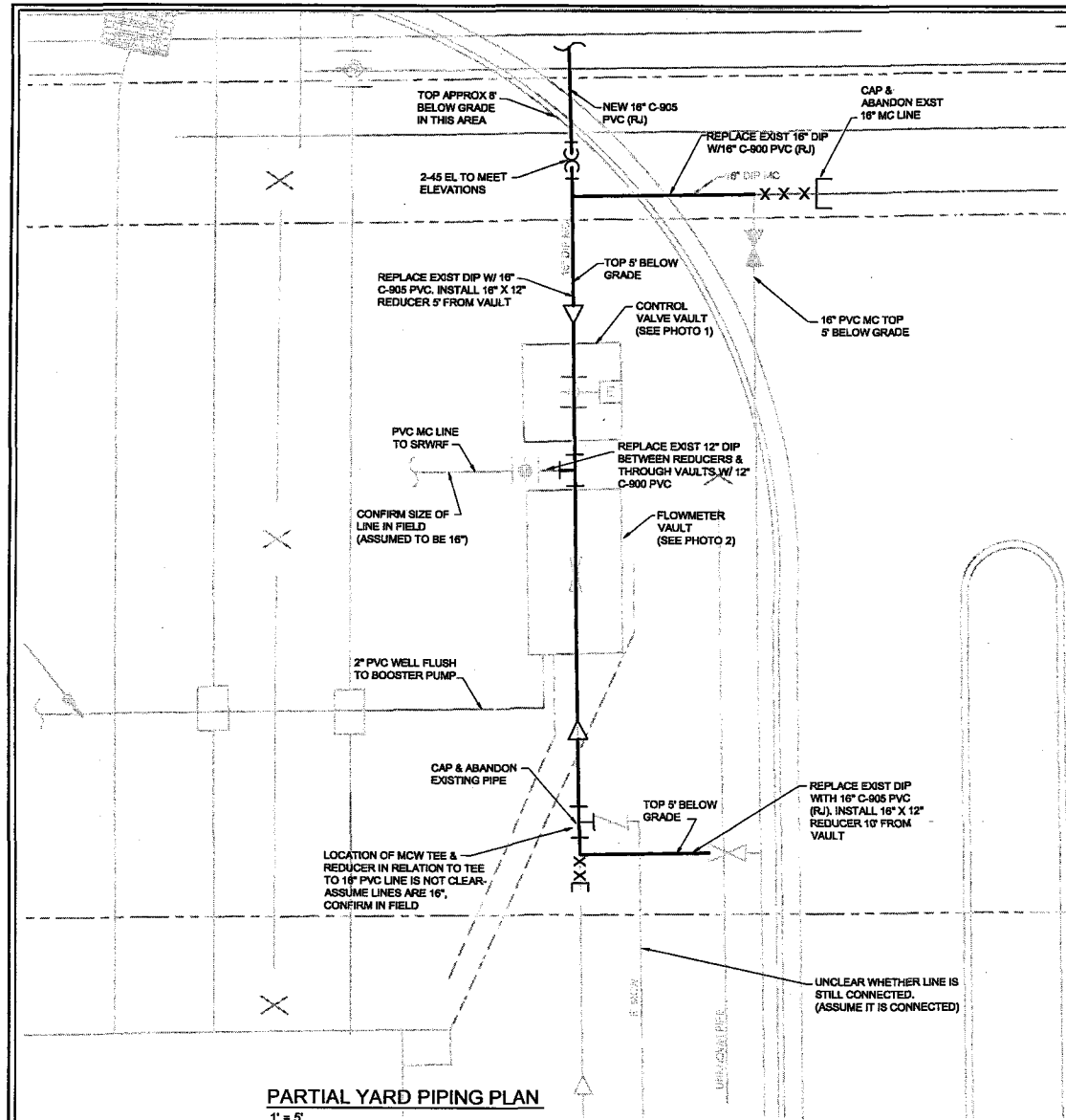


PHOTO 1 - CONTROL VALVE VAULT

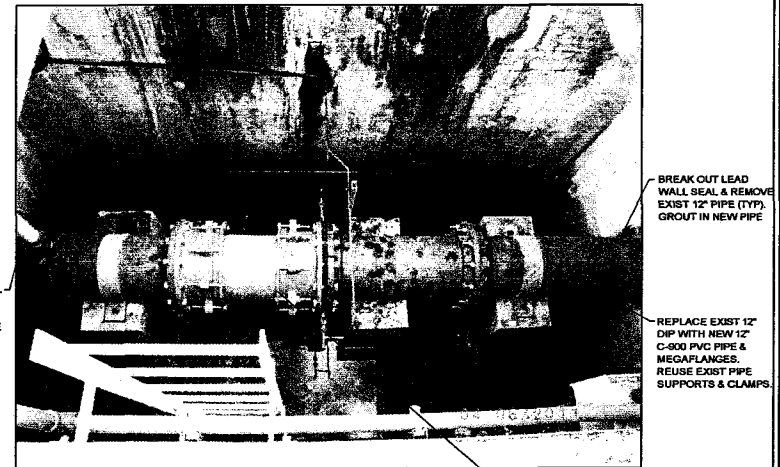


PHOTO 2 - FLOW METER VAULT

PARTIAL YARD PIPING PLAN  
1" = 5'

REV. NO.	DATE	DRWN	CHKD	REMARKS

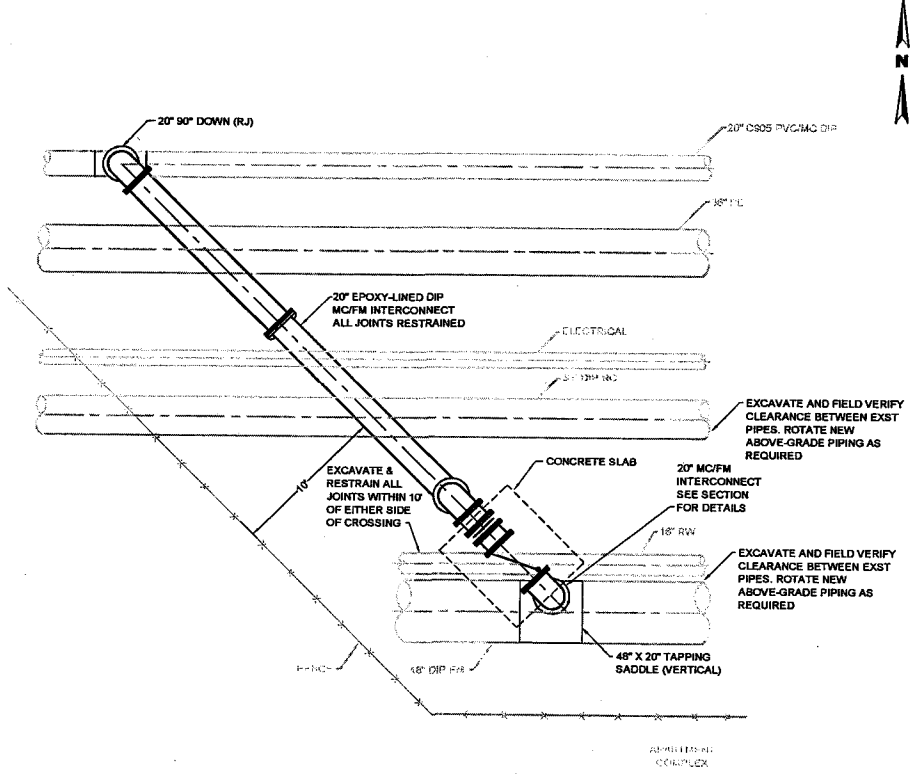
DESIGNED BY: D. SCHUMAN  
 DRAWN BY: O. KLEN  
 CHECKED BY: A. MOORE  
 ORGANIZATION: D. SCHUMAN  
 APPROVED BY: [Signature]  
 DATE: APRIL 2011

DAVID SCHUMAN, P. E.  
 No. 52092

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 CERTIFICATE OF AUTH. No. E.B.-0007225  
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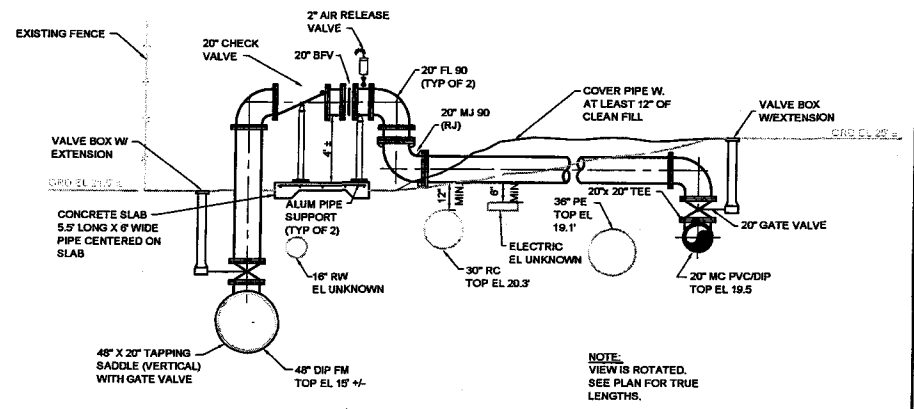
PROJECT NO. WJUD 09-059  
 FILE NAME: M-6.DWG  
 SHEET NO. M-6  
 PROJECT NAME: SROC DIW PIPING MODIFICATIONS  
 MC LINE REPLACEMENT DETAILS



PLAN  
1/2" = 1'-0"

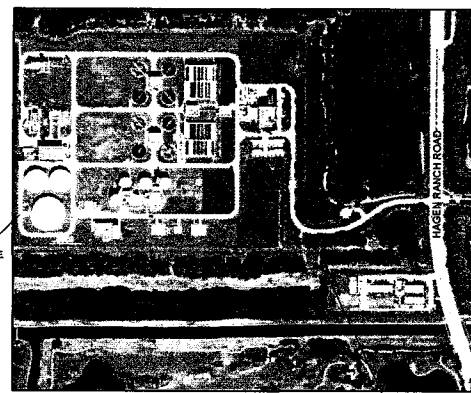
NOTES:

1. PIPE SEPARATION DISTANCES VARY BASED ON LOCATION.
2. ALL JOINTS SHALL BE RESTRAINED.
3. ALL NEW MC PIPING & FITTINGS SHALL BE EPOXY-LINED DIP.



SECTION  
1/2" = 1'-0"

NOTE:  
VIEW IS ROTATED.  
SEE PLAN FOR TRUE LENGTHS.



PIPING MODIFICATIONS AERIAL PHOTO  
NTS

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: D. SCHUMAN  
 DRAWN BY: O. KLEN  
 SHEET CHECKED BY: A. MOORE  
 CROSS CHECKED BY: D. SCHUMAN  
 APPROVED BY: D. SCHUMAN  
 DATE: APRIL 2011

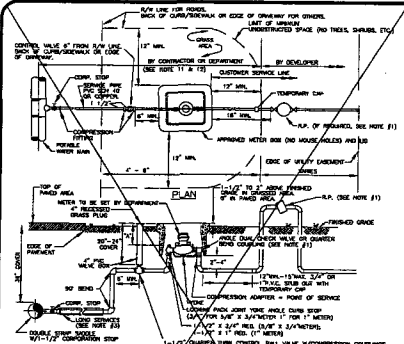
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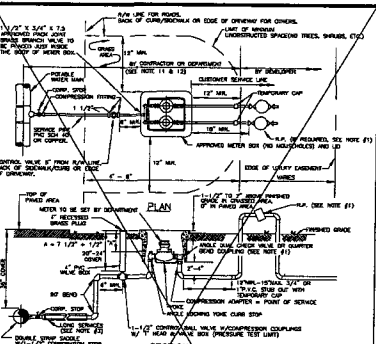
SROC DIW MODIFICATION  
 SRWRF MC/FM INTERCONNECT

WUD 09-059

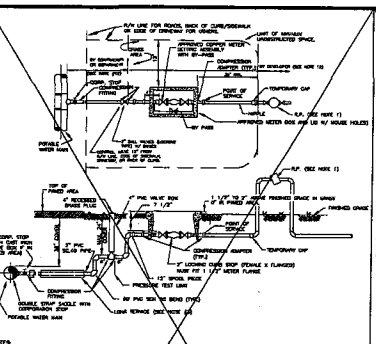
PROJECT NO.	M-FALDING
FILE NAME	
SHEET NO.	M-7



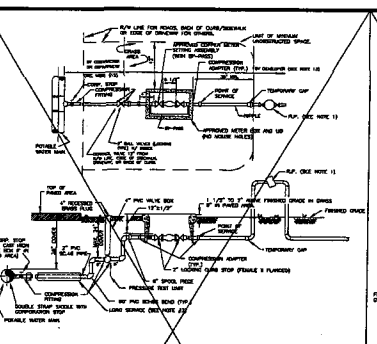
NOTES: 1. ALL SERVICES TO HAVE A REDUCED PRESSURE PREVENTION ASSEMBLY (RPP) AS APPROVED BY DIV. OF... 2. FOR INSTALLATION OF SERVICES UNDER OVERHEAD POWER LINES... 3. 12" MINIMUM CLEARANCE TO BE MAINTAINED BETWEEN METER BOX AND INFRASTRUCTURE...



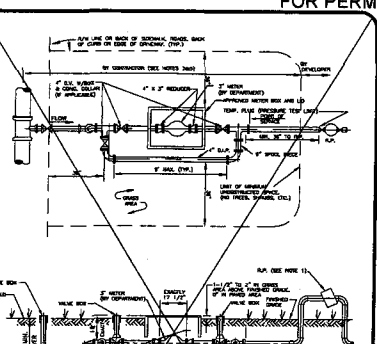
NOTES: 1. ALL SERVICES TO HAVE A REDUCED PRESSURE PREVENTION ASSEMBLY (RPP) AS APPROVED BY DIV. OF... 2. FOR INSTALLATION OF SERVICES UNDER OVERHEAD POWER LINES... 3. 12" MINIMUM CLEARANCE TO BE MAINTAINED BETWEEN METER BOX AND INFRASTRUCTURE...



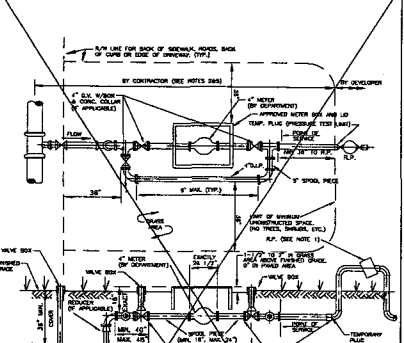
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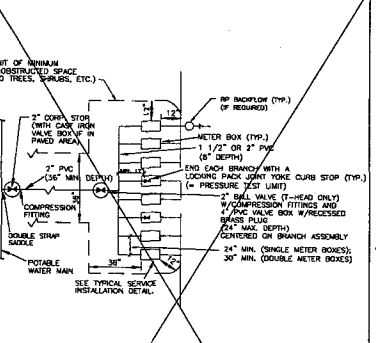
NOTES: 1. ALL SERVICES TO HAVE A REDUCED PRESSURE PREVENTION ASSEMBLY (RPP) AS APPROVED BY DIV. OF... 2. FOR INSTALLATION OF SERVICES UNDER OVERHEAD POWER LINES... 3. 12" MINIMUM CLEARANCE TO BE MAINTAINED BETWEEN METER BOX AND INFRASTRUCTURE...



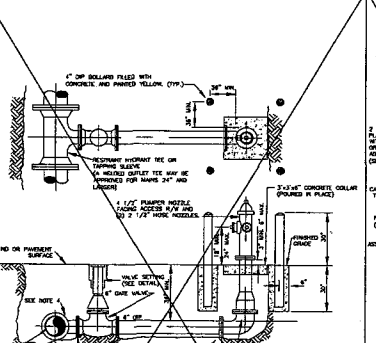
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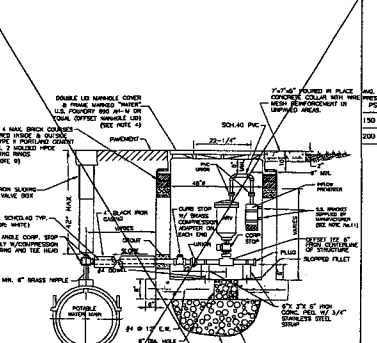
NOTES: 1. ALL SERVICES TO HAVE A REDUCED PRESSURE PREVENTION ASSEMBLY (RPP) AS APPROVED BY DIV. OF... 2. FOR INSTALLATION OF SERVICES UNDER OVERHEAD POWER LINES... 3. 12" MINIMUM CLEARANCE TO BE MAINTAINED BETWEEN METER BOX AND INFRASTRUCTURE...



NOTES: 1. SERVICE PIPING LARGER THAN 2" WILL NOT BE ACCEPTED FOR SERVICE LINE UNDER PAVEMENT USE A 304-L0 P.V.C. BLACK IRON PIPE OR HDPE SURS CASING... 2. METER LOCATION MUST CORRESPOND TO UNIT/BAY CONFIGURATION TO AVOID SERVICE LINE CROSSINGS...



NOTES: 1. HYDRANT SHALL BE INSTALLED FLANG AND TRUE IN UNRESTRICTED LOCATION... 2. ALL SERVICES SHALL BE SEALED WITH AN OVERSIZED NON-SWELLING GROUT...



NOTES: 1. HYDRANT SHALL BE INSTALLED FLANG AND TRUE IN UNRESTRICTED LOCATION... 2. ALL SERVICES SHALL BE SEALED WITH AN OVERSIZED NON-SWELLING GROUT...

Table with columns for Pipe Diameter (inches) and Maximum Quantity of Water (Gallons per Hour) for various test pressures (150, 200, 300 PSI). Includes formulas for calculating water quantity.

POTABLE WATER PRESSURE TEST CRITERIA. POTABLE WATER #1 STANDARD DETAILS. CONSULTANT: Globaltech A Globaltech Installation - BUILD COMPANY. DESIGNED BY: WUD. DRAWN BY: WJD CADDO. CHECKED BY: A. GALLI. APPROVED BY: WUD.





GENERAL NOTES

1. DEPARTMENT - THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT.
  2. CONTRACTOR - UTILITY CONTRACTOR AND ALL UTILITY SUBCONTRACTORS.
  3. ENGINEER - ENGINEER RESPONSIBLE FOR INSPECTION AND CERTIFICATION.
- PROCEDURE**
1. A PRE-CONSTRUCTION MEETING IS TO BE HELD PRIOR TO DELIVERY OF MATERIALS AND INSTALLATION OF POTABLE WATER AND WASTEWATER MAINS/WASTEWATER SYSTEM CONSTRUCTION. THE MEETING SHALL BE ATTENDED BY THE DEPARTMENT, CONTRACTOR, ENGINEER AND OTHER INTERESTED PARTIES.
  2. ANY REVISIONS TO THE APPROVED PLANS SHALL BE CALLED TO THE ATTENTION OF THE DEPARTMENT PRIOR TO THE PRE-CONSTRUCTION MEETING. REVISED PLANS MUST BE APPROVED PRIOR TO THE MEETING.
  3. THE (D) COPIES OF THE CURRENT APPROVED MATERIAL LIST AND ALL NECESSARY SHEET WORK SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING OF THE PRE-CONSTRUCTION MEETING.

4. ALL APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO PRECONSTRUCTION MEETING (DOT, HEALTH DEPARTMENT, COUNTY ENGINEER, ETC.).
5. THE CONTRACTOR SHALL MAINTAIN A CURRENT APPROVED SET OF CONSTRUCTION PLANS ON JOB SITE.
6. ALL MATERIALS SUPPLIED SHALL CONFORM TO PRODUCT LIST AND SHOP DRAWINGS AS APPROVED PRIOR TO CONSTRUCTION. SUBSTITUTE MATERIALS SHALL NOT BE APPROVED AFTER DELIVERY TO THE JOB SITE. ALL REQUESTS FOR MATERIAL SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
7. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE APPROVED PLANS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. APPROVAL OF DEVELOPMENT PLANS BY THE DEPARTMENT IN NO WAY IMPLIES VERIFICATION OF THE ACCURACY OF THESE PLANS OR FEATURES DEPICTED THEREON. ANY DISCREPANCY IN OR VIOLATION FROM THE APPROVED PLANS IS TO BE BROUGHT TO THE ATTENTION OF THE DEPARTMENT BY THE ENGINEER AND CONTRACTOR. THE CONTRACTOR SHALL CORRECT AND INSTALL OF THE EXISTING UTILITIES TO THE PRE-CONSTRUCTION MEETING. REVISED PLANS MUST BE APPROVED PRIOR TO CONNECTION.

8. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ACCESS TO ALL EXISTING UTILITIES.
10. THE CONTRACTOR OR ENGINEER SHALL SCHEDULE INSPECTIONS AND TESTS AT A MINIMUM OF 24-48 HOURS IN ADVANCE.
11. NO CONNECTION TO OR ANY OTHER CONSTRUCTION SHALL BE PERFORMED ON AN EXISTING UTILITY DURING OR MAINTAINED MAINT OF STRUCTURE WITHOUT THE PRESENCE OF A DEPARTMENT INSPECTOR.

12. FACILITIES PROPOSED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS AND THE DEPARTMENT'S MINIMUM STANDARDS. CONSULTS BETWEEN THE ENGINEER AND CONTRACTOR SHALL BE CALLED TO THE ATTENTION OF THE DEPARTMENT FOR RESOLUTION. CONDITIONS FROM THE APPROVED PLANS MUST BE APPROVED IN ADVANCE BY THE DEPARTMENT.
13. UPON COMPLETION OF CONSTRUCTION, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.

PRESSURE PIPE NOTES

1. THERE SHALL BE 36" MINIMUM COVER FROM FINISHED GRADE TO TOP OF PIPE.
2. DUCTILE IRON PIPE (DIP) THICKNESS SHALL CONFORM TO THE DEPARTMENT'S APPROVED MATERIAL LIST. POTABLE WATER AND RECLAIMED WATER MAINS DIP SHALL BE CEMENT LINED. FORCE MAIN DIP SHALL BE CORONA EPXY LINED.
3. PVC PRESSURE PIPE SHALL BE C-900, SDR-18, 150 PSI.
4. ALL FITTINGS SHALL BE DUCTILE IRON WITH MECHANICAL JOINTS AND CEMENT OR APPROVED EPXY LINING.
5. POTABLE WATER, RECLAIMED WATER AND WASTEWATER FORCE MAINS 10 INCHES AND SMALLER SHALL BE RESILIENT SEAT GATE VALVES. TWELVE-INCH (12") OR LARGER FORCE MAIN VALVES SHALL BE RESILIENT SEAT GATE VALVES OR COACTING PLUG VALVES (IF APPROVED IN ADVANCE BY DEPARTMENT). POTABLE WATER AND RECLAIMED WATER MAIN VALVES UNDER THAN 10 INCHES SHALL BE BUTTERFLY VALVES.
6. ALL TRENCHING, PIPE-LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTION MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND HEALTH DEPARTMENT REGULATIONS.

GRAVITY SEWER NOTES

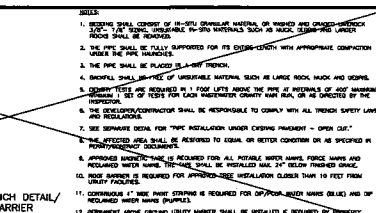
1. MANHOLES AND OTHER CASTINGS SHALL BE INSPECTED BY THE DEPARTMENT BEFORE PLACEMENT AND BEFORE APPLICATION OF THE CORROSION BARRIER SYSTEM (IF APPLICABLE).
2. ALL OPENINGS IN PRECAST MANHOLES SHALL BE CAST AT DATE OF MANUFACTURE OR COVERED IN FIELD.
3. ALL MANHOLES SHALL BE SET TO LIME AND GRADE, AND SHALL REST ON A FIRM, CAREFULLY GRADED SUBGRADE, WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
4. PVC WASTEWATER GRAVITY PIPE SHALL CONFORM TO ASTM D-3034, SDR 26 WITH PVC SDR 35 FITTINGS, OR PVC C-900 SDR 18, PIPE AND FITTINGS, WITH PUSH-ON RUBBER GASKET JOINTS.
5. DIP GRAVITY SEWER PIPE SHALL BE PRESSURE CLASS 3500, EPXY LINED.
6. THE COMPLETED GRAVITY WASTEWATER SYSTEM SHALL BE INSPECTED BY THE DEPARTMENT TO VERIFY ALIGNMENT AND INDEBTITY. THERE SHALL BE NO LEAKAGE. ALL MAINS SHALL BE WASHED, SHOWING A FULL CIRCLE OF LIGHT, DURING THESE INSPECTIONS. THE MAIN SHALL BE CLEAN AND RIN.

WATER AND WASTEWATER STANDARD DETAILS

**CONSULTANT:**  
Globaltech  
A Design - BUILD COMPANY

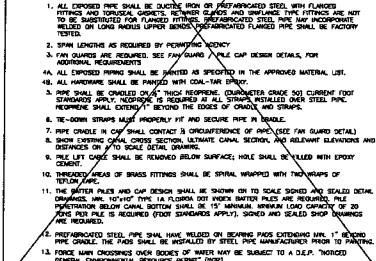
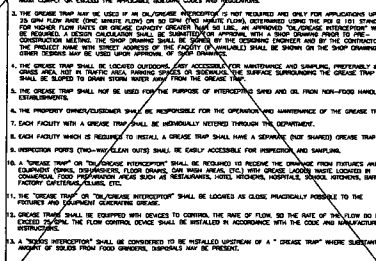
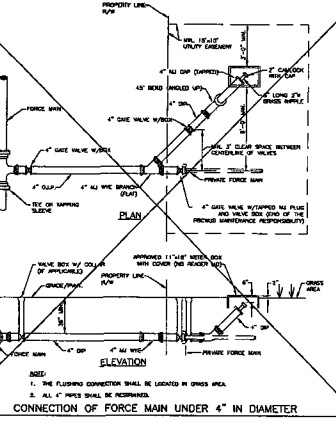
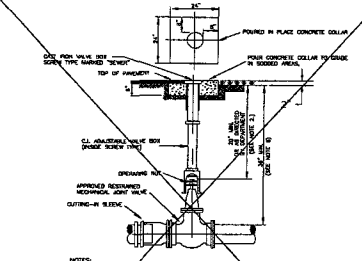
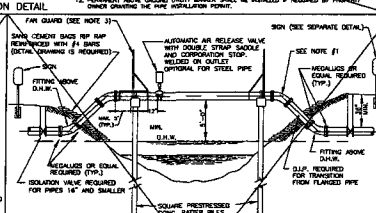
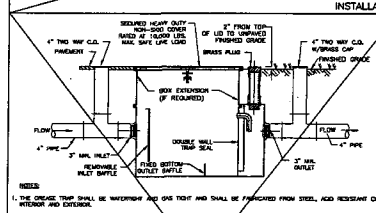
**DESIGNED BY:** WUD  
**DRAWN BY:** WUD CAD  
**CHECKED BY:** A. GALUCI  
**APPROVED BY:** WUD

Palm Beach County  
Water Utilities Department  
P.O. Box 14837  
West Palm Beach, FL 33416-6097

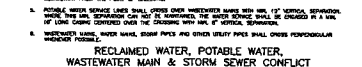
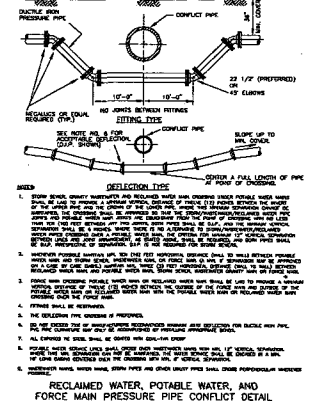


PIPE THRUFAST BLOCK AREA (SQ. FT.)	REMARKS	NOTE
12"	1.0	SEE SPECIFICATIONS
18"	2.25	SEE SPECIFICATIONS
24"	4.5	SEE SPECIFICATIONS

**TYPICAL THRUST BLOCKS FOR PRESSURE PIPING**



FITTING TYPE		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	6"	8"	10"	12"
90° VENT. OFFSET	HORIZONTAL BEND	14	20	28	36	43	54	62	73	84	93	101	123	150	177	201
	45° VENT. BEND	6	8	11	13	15	18	20	23	26	28	30	35	42	49	56
11.25° VENT. BEND	HORIZONTAL BEND	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	45° VENT. OFFSET	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
22.5° VENT. OFFSET	HORIZONTAL BEND	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	45° VENT. OFFSET	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
11.25° VENT. BEND	HORIZONTAL BEND	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	45° VENT. OFFSET	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17



FOR PERMITTING

PROJECT NO. 09-059

STOCK DW MODIFICATIONS

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT

P.O. BOX 14837 WEST PALM BEACH, FL 33416

DATE 10/20/08

STD DETAILS

SHEET NUMBER M-10

DATE 10/20/08

SCALE

SYMBOL		DESCRIPTION	SYMBOL		DESCRIPTION	SYMBOL		DESCRIPTION	FOR PERMITTING		
		CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, RACEWAY, CONDUCTOR AND CONNECTION IN DIVISION 16. COORDINATE FINAL CONNECTION WITH EQUIPMENT SUPPLIER.			GROUND ROD			FUSE			LINE WEIGHTS — NEW - - - EXISTING - - - FUTURE // DEMOLITION OR TO BE REMOVED
		INDICATES RACEWAY AND CIRCUIT CONDUCTORS. FIRST NUMBER IS RACEWAY SIZE. THE FOLLOWING NUMBERS ARE THE CONDUCTOR QUANTITIES, SIZES, AND TYPES MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.			2- DOUBLE POLE P - PILOT LIGHT 3- THREE WAY K - KEY OPERATED 4- FOUR WAY D - DIMMER WP - WEATHERPROOF CRE - CORROSION RESISTANT			CAPACITOR OR SURGE CAPACITOR			
		PANELBOARD			MANUAL MOTOR STARTER SWITCH			TRANSFORMER, VOLTAGE, PHASE AND RATINGS INDICATED AS APPLICABLE			
		UNIT HEATER NO.1 SEE SCHEDULE			CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE - WP - WEATHERPROOF CL - CLOCK HANGER TL - TWIST LOCK CRE - CORROSION RESISTANT			GROUND FAULT RELAY WITH G.T.			
		TELEPHONE TERMINAL CABINET			CONVENIENCE RECEPTACLE - DUPLEX UNLESS SPECIFIED OTHERWISE - FLUSH IN FLOOR			PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN			
		TERMINAL JUNCTION BOX			MULTI-OUTLET ASSEMBLY RECEPTACLES			SELECTOR SWITCH, MAINTAINED CONTACT WITH CONTACT POSITION INDICATED, CHART IDENTIFIES OPERATION			
		WOUND-ROTOR MOTOR, HORSEPOWER INDICATED			RECEPTACLE SPECIAL PURPOSE - AMPERAGE AS INDICATED			REMOTE DEVICE			
		MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED			TELEPHONE/DATA RECEPTACLE (OUTLET BOX ONLY) WITH 1" CONDUIT TO TELEPHONE TERMINAL CABINET (TTC)			CURRENT TRANSFORMER, NUMBER AND RATIO INDICATED			
		DC MOTOR, HORSEPOWER INDICATED			ONLY WITH 1" CONDUIT TO TELEPHONE TERMINAL CABINET (TTC)			PROTECTIVE RELAY			
		LUMINAIRE - SEE SCHEDULE			TELEPHONE RECEPTACLE OUTLET BOX 48" AFF ONLY WITH 3/4" CONDUIT TO TELEPHONE TERMINAL CABINET (TTC)			SOLENOID			
		LUMINAIRE AND POLE - SEE SCHEDULE			GENERAL CONTROL OR WIRING DEVICE, NEMA 4X ENCLOSURE UNLESS INDICATED OTHERWISE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE.			CONTROL RELAY, 24V DC COIL			
		WALL MOUNTED LUMINAIRE - SEE SCHEDULE			NONFUSED DISCONNECT SWITCH, SIZE INDICATED, 3 POLE UNLESS INDICATED OTHERWISE, NEMA 1 ENCLOSURE, WP = WEATHERPROOF (NEMA 4X)			TIME DELAY CONTACTS			
		FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN			CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE UNLESS INDICATED OTHERWISE.			LIQUID LEVEL			
		EXIT LIGHTS - SEE SCHEDULE			CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.			PRESSURE			
		EMERGENCY LIGHTING FIXTURE			FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE UNLESS INDICATED OTHERWISE.			DRAWOUT CIRCUIT BREAKER, LOW VOLTAGE, XXX = FRAME RATING, YYY = TRIP RATING			
		SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT IN PANELBOARD.			DRAWOUT CIRCUIT BREAKER, MEDIUM VOLTAGE			DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE			
		HOME RUN - DESTINATION SHOWN			LIGHTNING ARRESTER						
		EXPOSED CONDUIT AND CONDUCTORS*									
		CONCEALED CONDUIT AND CONDUCTORS*									
		CONDUIT DOWN, X IS CONDUIT NO.									
		CONDUIT UP									
		CONDUIT, STUBBED AND CAPPED AS SHOWN									
		UNDERGROUND CONDUIT									
		EXPOSED CONDUIT									
		GROUND WIRE, 40 UNLESS OTHERWISE NOTED									
		METERING FACILITIES									
		MULTI-PARTY DESK TOP COMMUNICATIONS SYSTEM STATION WITH REMOTE AMPLIFIER									
		MULTI-PARTY WALL MOUNTED COMMUNICATIONS SYSTEM STATION WITH INTEGRAL AMPLIFIER									
		CONE TYPE PAGING SPEAKER, CEILING MOUNTED									
		INTERIOR PAGING TRUMPET SOUND REPRODUCER, 120" x 60" WITH REMOTE AMPLIFIER, SURFACE MOUNTED									
		TERMINAL CABINET FOR COMMUNICATIONS SYSTEM									
		ADDRESSABLE FIRE ALARM INTERFACE MODULE									
		PART OF A PACKAGE SYSTEM									
		SECURITY DOOR SWITCH									
		SECURITY CAMERA (PROVIDED BY OTHERS)									

REV.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 APPROVED BY: D. SHUMAL  
 DATE: JANUARY 2011

GLOBALTECH ELECTRICAL ENGINEERING, INC.  
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 PH: (561) 997-6433  
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 LICENSE No. E.E.-0007225  
 LICENSE No. C.G.C.-1507230

PROJECT NO. 075291.DWG  
 SHEET NO. E-1



SROC DIW MODIFICATION  
 ELECTRICAL LEGEND AND SYMBOLS

**GENERAL NOTES AND SPECIFICATIONS:**

1. THE SCOPE OF WORK SHALL BE AS PER SPEC SECTION 16010.
2. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR TO INSTALL THE ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS. ITEMS NOT SHOWN BUT OBVIOUSLY NECESSARY FOR COMPLETION OF THE WORK SHALL BE INCLUDED.
3. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE (NFPA 70), NATIONAL ELECTRICAL SAFETY CODE (NFPA 70E), 2008 LIFE SAFETY CODE (NFPA 101), LOCAL CODES AND FLORIDA BUILDING CODE 2007 WITH 2008 REVISIONS.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS AND APPROVALS AND TO INCLUDE ALL FEES AS PART OF HIS BID IF NOT OTHERWISE NOTED.
5. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE ENGINEER AND OWNER.
6. THE CONTRACTOR SHALL, BEFORE SUBMITTING HIS BID, VISIT THE SITE OF THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS OR FAILURE OF THE CONTRACTOR TO OBSERVE THEM.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL LOCAL UTILITIES FOR ALL TEMPORARY UTILITIES FOR THE CONTRACTOR'S TRAILERS, INCLUDING THE POWER AND TELEPHONE UTILITIES TO MEET ALL OF THEIR INSTALLATION REQUIREMENTS. ALL FEES, LABOR, EQUIPMENT OR MATERIALS NECESSARY TO MEET THESE REQUIREMENTS IS TO BE INCLUDED IN THE BID. THE CONTRACTOR SHALL OBTAIN, DELIVER AND INSTALL ALL CONDUITS, PULL BOXES AND EQUIPMENT AS REQUIRED BY THE UTILITIES TO THEIR SPECIFICATIONS.
8. ALL EQUIPMENT AND MATERIAL SHALL BE UNUSED AND U.L. LISTED. ALL REFERENCES TO A PARTICULAR MANUFACTURER ARE GIVEN ON AN "APPROVED EQUAL" BASIS.
9. THE CONTRACTOR IS RESPONSIBLE TO TEST ALL SYSTEMS INSTALLED OR MODIFIED UNDER THIS PROJECT AND REPAIR OR REPLACE ALL DEFECTIVE WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER.
10. ALL EQUIPMENT FURNISHED AND INSTALLED BY THE CONTRACTOR SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
11. ALL CONDUCTORS SHALL BE COPPER. NO ALUMINUM ALLOWED UNLESS OTHERWISE NOTED.
12. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL ELECTRICAL & CONTROL EQUIPMENT AND MATERIAL.
13. ALL CONTROL PANELS SHALL BE CONSTRUCTED BY A UL 508A APPROVED PANEL VENDOR AND SHALL BEAR A UL 508A LABEL ON THE PANEL. PANELS SHALL ALSO COMPLY WITH NEC ARTICLE 408 FOR MAXIMUM AVAILABLE FAULT CURRENT.
14. THE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. THESE ARE TO BE COORDINATED WITH THE OTHER TRADES SO THAT CONFLICTS ARE AVOIDED PRIOR TO INSTALLATIONS.
15. ALL LOCATIONS OF EQUIPMENT, PANELS ETC. ARE SHOWN FOR ILLUSTRATION PURPOSES. CONTRACTOR SHALL VERIFY AND COORDINATE EXACT LOCATION AND SIZE WITH ALL SUBCONTRACTORS AND EQUIPMENT SUPPLIERS PRIOR TO ANY INSTALLATION AND THEN INSTALL AS SUCH WITH CORRESPONDING CONDUIT STUB-UPS.
16. SEE OTHER DISCIPLINE DRAWINGS FOR COORDINATION OF ALL DRAWINGS. ANY CONFLICTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION AND MOVEMENT OF CONDUITS OR OTHER ELECTRICAL EQUIPMENT SHALL BE ACCOMPLISHED WITHOUT ANY ADDITIONAL COST FOR THE OWNER.
17. LOCATIONS OF MANHOLES, HANDHOLES AND PULL BOXES ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH EXISTING AND NEW PIPING OR CONDUIT AND ADJUST ACCORDINGLY.
18. NOT ALL CONDUITS SHOWN ON RISER AND ONE-LINE DIAGRAMS ARE SHOWN ON BUILDING LAYOUTS. CONTRACTOR SHALL SUPPLY ALL CONDUITS AND CABLES AS SHOWN ON RISER AND ONE-LINE DIAGRAMS.
19. ALL CIRCUITS SHALL BE IDENTIFIED IN JUNCTION BOXES, PULL BOXES, CONTROL PANELS, PANELBOARDS, LIGHTING POLES, CONTROLLERS AND SERVICE POINTS. IDENTIFICATION SHALL MATCH PANELBOARD SCHEDULES.
20. EXPOSED RUNS OF CONDUITS SHALL BE INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS OR INTERSECTIONS OF VERTICAL PLANES AND CEILINGS, WITH RIGHT ANGLE TURNS CONSISTING OF SYMMETRICAL BENDS OR PULL BOXES AS INDICATED ON THE DRAWINGS. BENDS AND OFFSETS SHALL BE AVOIDED WHERE POSSIBLE.
21. INSTRUMENTATION IS LOW VOLTAGE SIGNALS SUCH AS 4-20MA, 24 VDC COMMUNICATION, LOCAL AREA NETWORK COMMUNICATIONS, TELEPHONE COMMUNICATION, FIRE ALARM COMMUNICATION. POWER CONDUITS SHALL ONLY CROSS INSTRUMENTATION CONDUITS PERPENDICULARLY AT RIGHT ANGLES WITH 9" SEPARATION.
22. CONDUCTOR PULLING TENSIONS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL INSTALL PULL BOXES TO MEET MANUFACTURER'S REQUIREMENTS.
23. MINIMUM DISTANCE ALLOWED BETWEEN POWER CONDUITS AND INSTRUMENTATION CONDUITS SHALL BE:  

VOLTAGE	DISTANCE
4160V	3 FT
480V	2 FT
120V	1 FT
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONDUIT AND WIRING INSTALLATION FOR ALL VENDOR PROVIDED EQUIPMENT (PACKAGE SYSTEMS), IF THE SHOP DRAWINGS DIFFER FROM THE DESIGNED FACILITIES. THE CONTRACTOR SHALL REDESIGN THE FACILITIES AND SUBMIT THE REVISED DESIGN FOR THE ENGINEER'S APPROVAL ALONG WITH THE SHOP DRAWINGS. THERE SHALL BE NO ADDITIONAL COST TO THE OWNER FOR THE REDESIGN NOR FOR ANY ADDITIONAL CONDUITS AND WIRING. DURING SUBMITTAL THE CONTRACTOR SHALL VERIFY ALL SUPPLIED BREAKER SIZES FOR ALL PACKAGED SYSTEMS SUCH AS HVAC, EXHAUST FANS, MIXERS, CHEMICAL PUMPS ETC. AND MODIFY ALL BREAKERS IN MCC'S AND PANELBOARDS ACCORDINGLY WITHOUT ANY ADDITIONAL COST TO THE OWNER.
25. ALL EXCAVATIONS FOR CONDUITS, HAND HOLES, MANHOLES AND PULL BOXES NEAR EXISTING PIPING, CONDUIT AND EQUIPMENT SHALL BE HAND EXCAVATED AND COORDINATED WITH PLANT ENGINEER.
26. MINIMUM DEPTH FROM TOP OF DUCT BANKS OR CONDUITS TO FINISHED GRADE SHALL BE 24" UNLESS OTHERWISE NOTED.
27. COLORED WARNING TAPE 6" WIDE SHALL BE INSTALLED 8" BELOW FINISHED GRADE DIRECTLY ABOVE ALL UNDERGROUND YARD CONDUITS ACCORDING TO THE FOLLOWING SCHEDULE:  

POWER	RED
-------	-----
28. ALL OTHER CONDUITS: GREEN
29. CONTRACTOR SHALL RESTORE SIDEWALKS, ROADWAYS, SOD AND SPRINKLER SYSTEM PIPING TO MATCH EXISTING, AFTER THE COMPLETION OF THE CONDUIT AND PULL BOX INSTALLATION.
30. GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH NEC ARTICLE 250. THE GROUNDING SYSTEM TEST SHALL NOT EXCEED A 48 HOUR SPAN DRY RESISTANCE OF 10 OHMS. ADDITIONAL GROUNDING TO MEET THIS REQUIREMENT SHALL BE INSTALLED AT NO EXTRA COST. GROUNDING AND BONDING CONNECTIONS SHALL NOT BE PAINTED. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMIC WELDED UNLESS SPECIFICALLY INDICATED OTHERWISE.
31. AN EQUIPMENT GROUND WIRE SIZED PER NEC SHALL BE PULLED IN ALL ELECTRICAL CONDUITS, POWER AND CONTROL, WHETHER OR NOT INDICATED ON THE PLANS.
32. ALL ENCLOSURES, TJB, WREWAY, PULL BOXES ETC. SHALL CONTAIN A GROUNDING BUS. CONNECT ALL RACEWAY BONDS TO THIS BUS VIA GROUNDING BUSHING AND EXTEND BONDING JUMPER FROM THIS BUS TO THE ENCLOSURE.
33. PRIMARY BUILDING GROUNDING SHALL BE AN EMBEDDED GRID OF MINIMUM #40 AWG WIRE INSTALLED IN THE FOUNDATION AND AROUND THE BUILDING PERIMETER. MINIMUM 24" BELOW FINISHED GRADE TO FORM A COMPLETE LOOP. SECONDARY GROUND CONNECTIONS TO ALL METAL EQUIPMENT, HAND RAILS, STRUCTURAL STEEL, CONCRETE PADS, REBAR ETC. SHALL HAVE A MINIMUM #4 STRANDED COPPER CONDUCTOR BONDED USING APPROVED LUGS OR EXOTHERMIC CONNECTIONS. ALL EQUIPMENT GROUNDING CONDUCTORS PENETRATING CONCRETE SLABS OR FINISHED GRADE SHALL HAVE A 72" CONDUCTOR PISTAIL AT EACH LOCATION FOR CONNECTION TO EQUIPMENT.
34. ALL YARD CONDUIT (Y/C) SHALL BE CONCRETE ENCASED AS PER ELECTRICAL DETAILS EXCEPT LIGHTING CONDUITS.
35. ALL CONCRETE ENCASED DUCT BANKS SHALL CARRY A MINIMUM #40 AWG BARE COPPER GROUND WIRE, OVER THE ENTIRE LENGTH, WHICH SHALL BE CONNECTED TO THE SITE GROUNDING GRID AND GROUND RODS LOCATED CONNECTING MANHOLES, HAND HOLES OR PULL BOXES.
36. CONTRACTOR SHALL CORE DRILL EXISTING CONCRETE WALLS, FLOORS, MANHOLES, HAND HOLES AND PULL BOXES FOR CONDUIT PENETRATIONS. SEAL PENETRATIONS WITH NON-SHRINK GROUT OR APPROPRIATE FIRE RATED DEVICES WHERE APPLICABLE.
37. ALL CONDUITS PENETRATING RATED FIRE WALLS OR RATED FIRE FLOORS SHALL BE INSTALLED WITH U.L. APPROVED DEVICES TO MAINTAIN THE FIRE RATING OF THE WALL OR FLOOR PENETRATED.
38. PROVIDE CONDUIT DUCT SEAL AT ALL CONDUIT ENDS.
39. ALL SPARE CONDUITS SHALL BE SEALED WITH A CAP AT BOTH ENDS AND A PULL STRING INSTALLED WITH IDENTIFICATION ON BOTH ENDS.
40. ALL RECEPTACLES SHALL BE INSTALLED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES SHALL BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.

41. ALL RECEPTACLES WITHIN 8' OF A SINK SHALL BE GFI.
42. FLEXIBLE CONDUITS SHALL BE USED TO TERMINATE ALL MOTORS AND OTHER VIBRATING EQUIPMENT AND SHALL BE BETWEEN 18" AND 3' IN LENGTH.
43. ELECTRICAL PULL BOXES SHALL BE SUPPLIED WITH PVC JUNCTION BOXES AND A STEEL TRAFFIC-RATED COVER MARKED "ELECTRICAL" OR "E38A1".
44. TYPEWRITTEN PANEL SCHEDULES SHALL BE INSTALLED IN EACH PANELBOARD, AND TYPEWRITTEN TERMINAL BLOCK SCHEDULES IN EACH CONTROL CABINET.
45. ALL BURGE PROTECTIVE DEVICES SHALL BE INTEGRAL TO THE NEW EQUIPMENT SHOWN AND SUPPLIED AS ONE UNIT AND ONE U.L. ENTITY.
46. ALL MATERIAL IN DESIGNATED CORROSIIVE AREAS SHALL BE NEMA 4X STAINLESS STEEL OR NON-METALLIC.
47. ALL OUTDOOR LIGHTING FIXTURES SHALL BE OF COPPER FREE CONSTRUCTION.
48. CONTRACTOR SHALL BALANCE PANELBOARD LOADS AT THE END OF THE PROJECT AND ADJUST PANELBOARD SCHEDULE ACCORDINGLY.
49. ALL CONDUITS INSTALLED IN CONCRETE SLABS, WALLS, ETC. SHALL HAVE A MINIMUM OF 2" CONCRETE COVER ON ALL SIDES.
50. ALL REFERENCES TO 4X, NEMA 4X, OR NEMA 4X STAINLESS STEEL SHALL BE CONSTRUED AS MEANING NEMA 4X 316 STAINLESS STEEL.

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY	M. LUTHER
DRAWN BY	M. LUTHER
CHECKED BY	M. LUTHER
CREATED BY	P. HELLES
APPROVED BY	D. SHUMAN
DATE	JANUARY 2011

**GLOBALTECH**  
 ENGINEERING, INC.  
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 FAX: (561) 997-5811  
 LICENSE NO. E.E.-0007225  
 LICENSE NO. C.G.C.-1507230

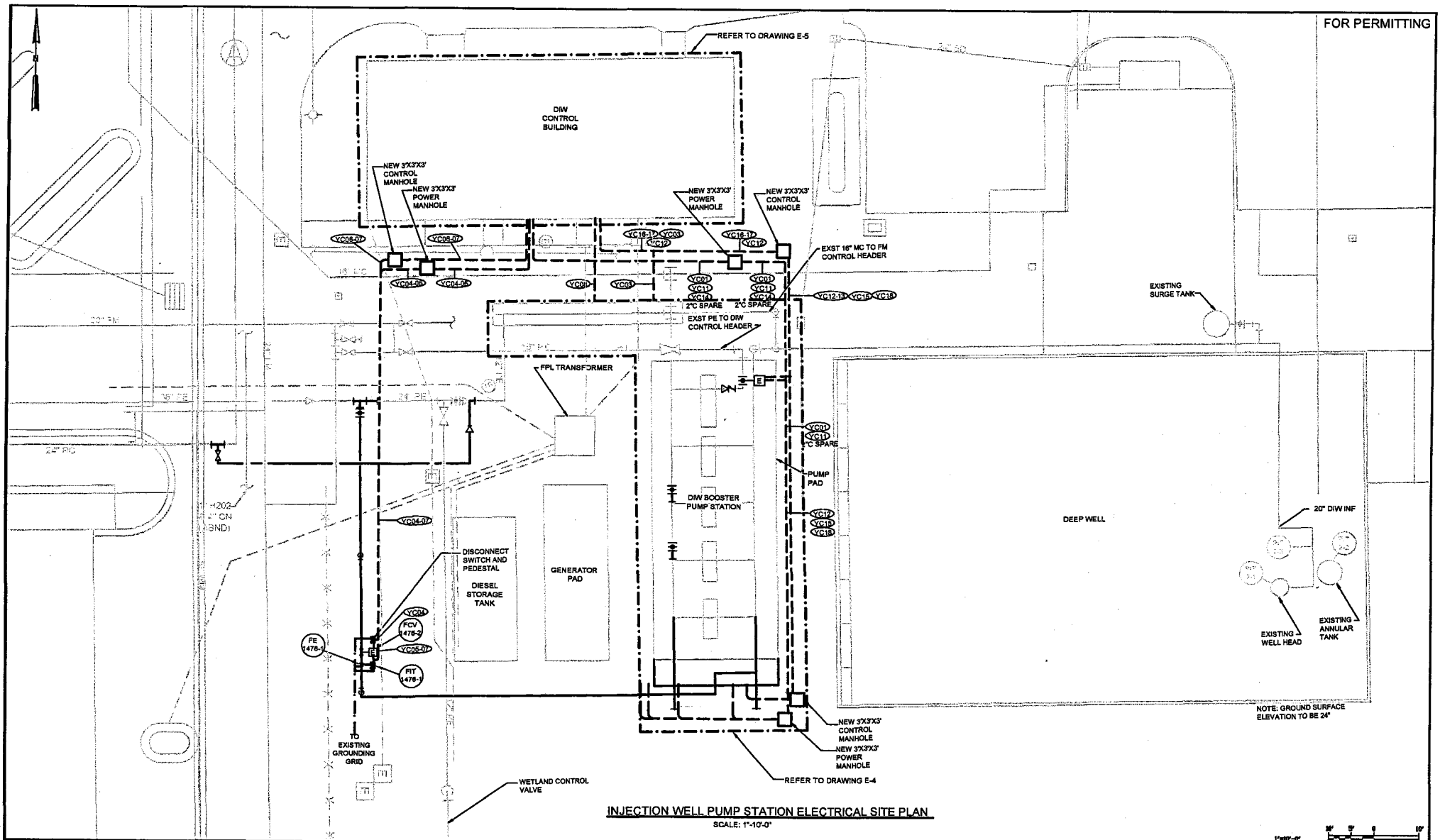
**Globaltech**  
 A DESIGN - BUILD COMPANY

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 LICENSE NO. E.E.-0007225  
 LICENSE NO. C.G.C.-1507230

SROC DIW MODIFICATION  
 ELECTRICAL GENERAL NOTES AND SPECIFICATIONS

PROJECT NO.	075202.DWG
SHEET NO.	E-2

FOR PERMITTING



INJECTION WELL PUMP STATION ELECTRICAL SITE PLAN

SCALE: 1"=10'-0"

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 CADD BY: P. HILLERS  
 APPROVED BY: D. SHUMAN  
 DATE: JANUARY 2011

**HILLERS ELECTRICAL ENGINEERING, INC.**  
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 LICENSE NO. E.B.-0007225  
 LICENSE NO. C.G.C.-1507230

MARK E. LUTHER, PE  
 P. E. # 48801

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 LICENSE NO. C.G.C.-1507230

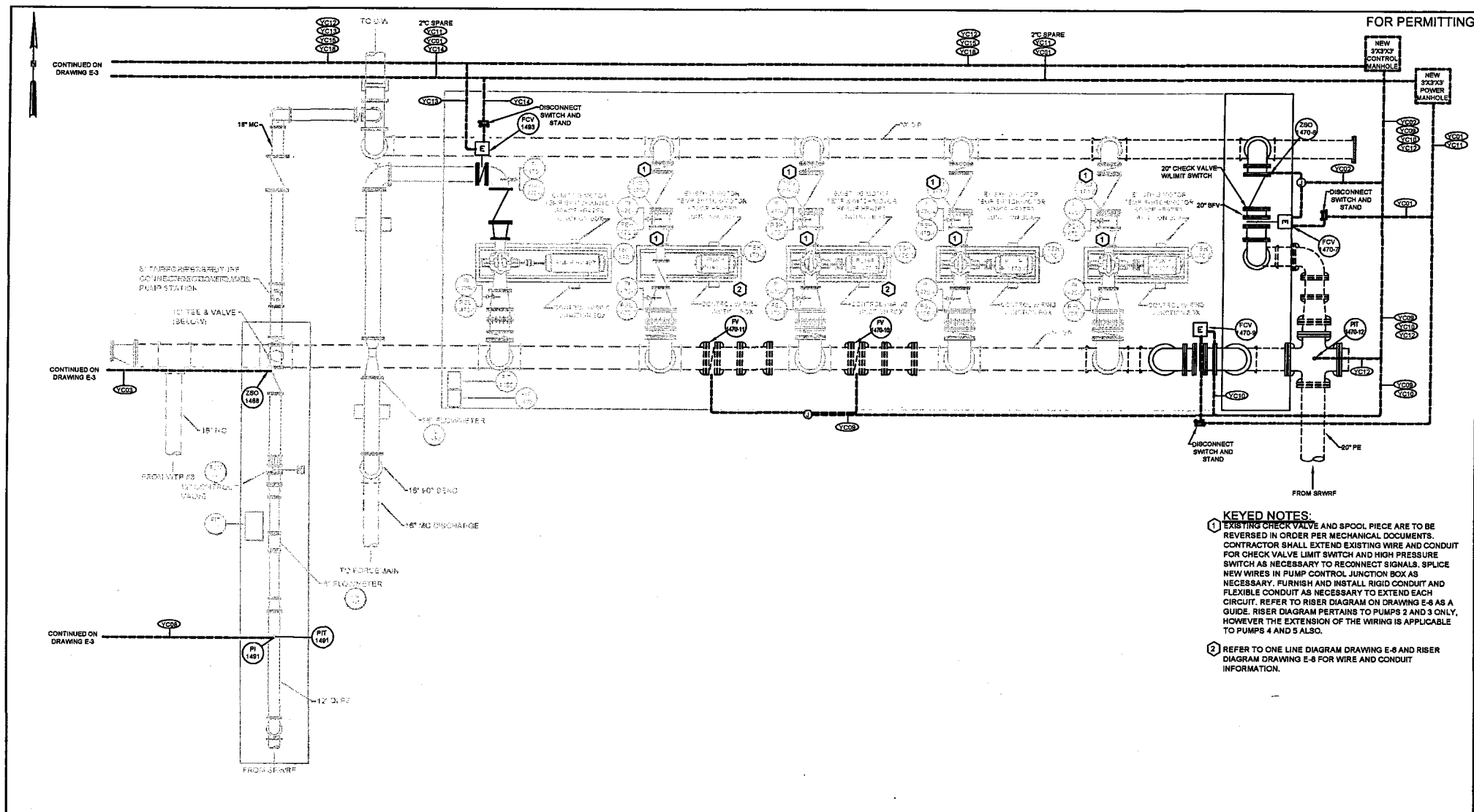
SROC DIW MODIFICATION  
 ELECTRICAL SITE PLAN

PROJECT NO. GTS2603.DWG  
 SHEET NO. E-3

1"=10'-0"

0 10' 20' 30' 40' 50'

GTS2603



**KEYED NOTES:**

1 EXISTING CHECK VALVE AND SPOOL PIECE ARE TO BE REVERSED IN ORDER PER MECHANICAL DOCUMENTS. CONTRACTOR SHALL EXTEND EXISTING WIRE AND CONDUIT FOR CHECK VALVE LIMIT SWITCH AND HIGH PRESSURE SWITCH AS NECESSARY TO RECONNECT SIGNALS. SPLICE NEW WIRES IN PUMP CONTROL JUNCTION BOX AS NECESSARY. FURNISH AND INSTALL RIGID CONDUIT AND FLEXIBLE CONDUIT AS NECESSARY TO EXTEND EACH CIRCUIT. REFER TO RISER DIAGRAM ON DRAWING E-6 AS A GUIDE. RISER DIAGRAM PERTAINS TO PUMPS 2 AND 3 ONLY, HOWEVER THE EXTENSION OF THE WIRING IS APPLICABLE TO PUMPS 4 AND 5 ALSO.

2 REFER TO ONE LINE DIAGRAM DRAWING E-6 AND RISER DIAGRAM DRAWING E-6 FOR WIRE AND CONDUIT INFORMATION.

**INJECTION WELL PUMP STATION ELECTRICAL PLAN**  
SCALE: 1/4"=1'-0"



REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 CROSS CHECK BY: P. JILLES  
 APPROVED BY: D. SULLMAN  
 DATE: JANUARY 2011

MARK E. LUTHER, PE  
 P. E. # 48801

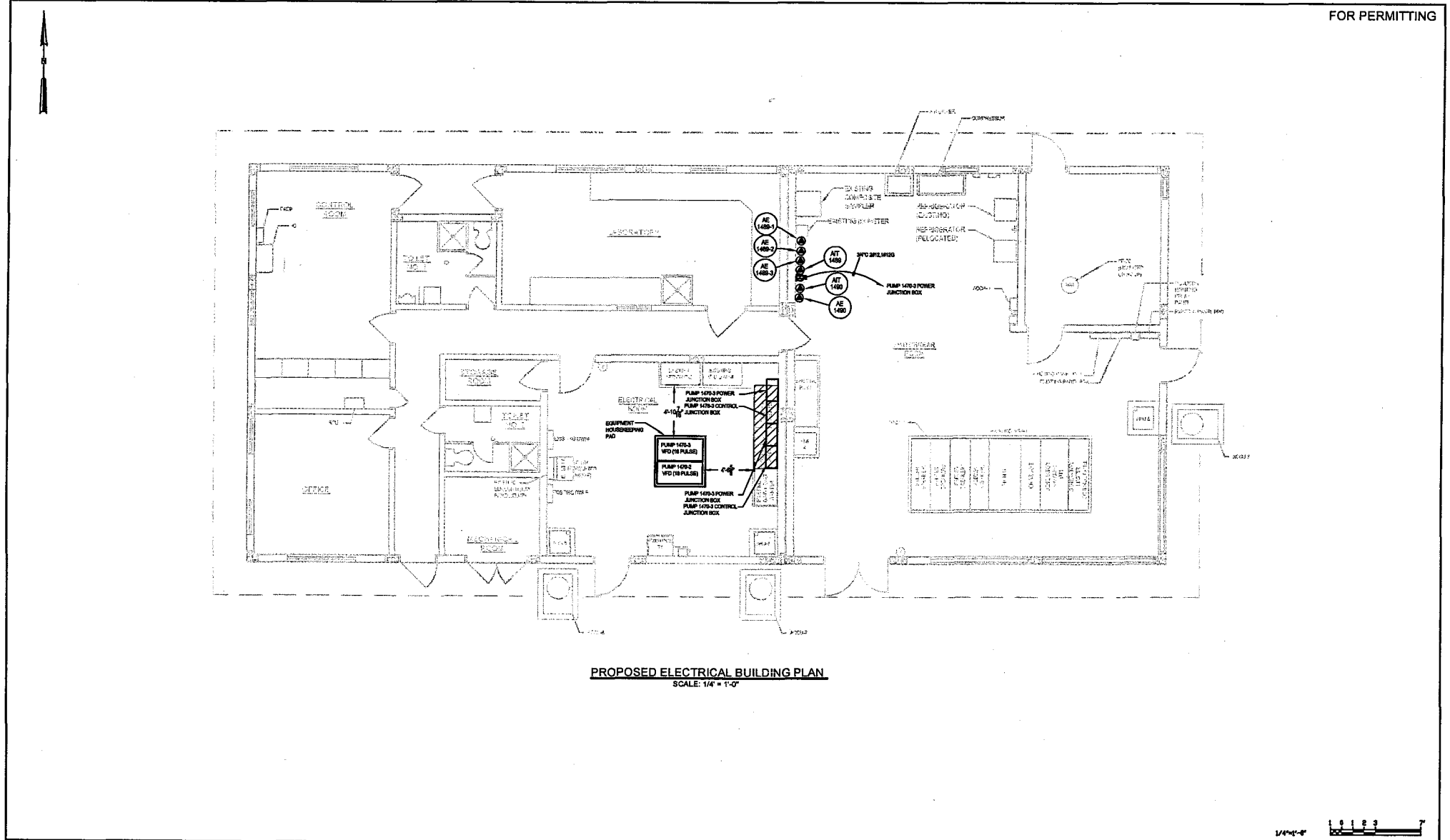
**HILLERS ELECTRICAL ENGINEERING, INC.**  
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 (561) 997-5811  
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 LICENSE No. ER-0007225  
 LICENSE No. C.G.C.-1507230

SROC DIW MODIFICATION  
**INJECTION WELL PUMP STATION ELECTRICAL PLAN**

PROJECT NO. 0752E04.DWG  
 SHEET NO. E-4



PROPOSED ELECTRICAL BUILDING PLAN  
SCALE: 1/4" = 1'-0"

REV. NO.	DATE	BY	CHKD	REMARKS

DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 PROJECT NO: P. HILLERS  
 APPROVED BY: D. SCHUMAN  
 DATE: JANUARY 2011

HILLERS ELECTRICAL ENGINEERING, INC.  
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 LICENSE No. C.G.C.-1507230

**Globaltech**  
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 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

PROJECT NO: GT20E05.DWG  
 SHEET NO: E-5

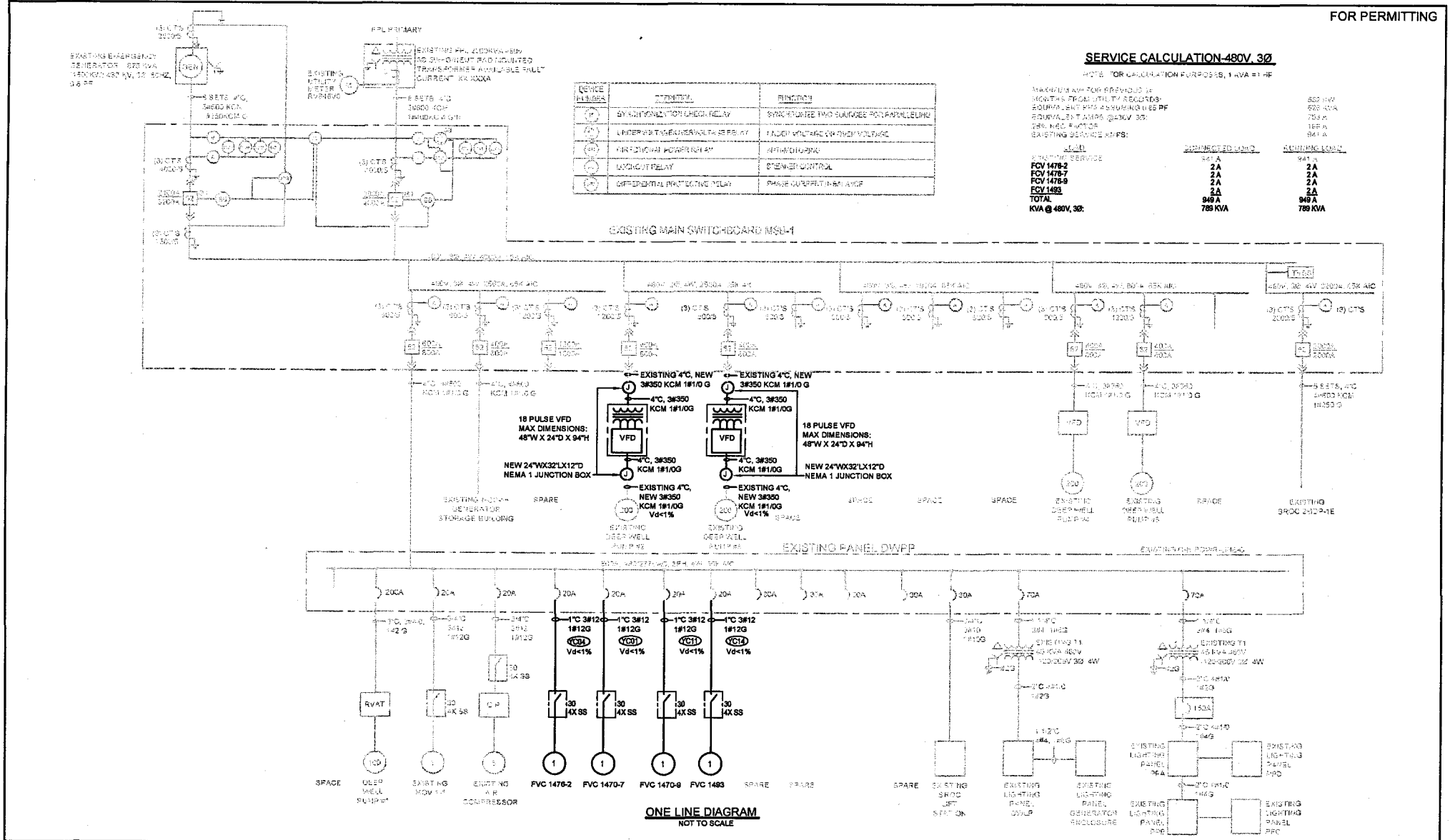
**SERVICE CALCULATION-480V, 3Ø**

NOTE: FOR CALCULATION PURPOSES, 1.0 VA PER

MAXIMUM KW FOR PREVIOUS IS  
LOADS THE PROPORTIONAL  
EQUIVALENT KW ASSUMING 0.85 PF  
EQUIVALENT AMP @ 480V, 3Ø  
240.00 KW @ 480V, 3Ø  
EXISTING SERVICE KMS:

LOAD	CONNECTED KW	CONNECTED LVA
EXISTING SERVICE	941 A	941 A
FCV 1478-2	2A	2A
FCV 1478-7	2A	2A
FCV 1478-9	2A	2A
FCV 1493	2A	2A
<b>TOTAL</b>	<b>949 A</b>	<b>949 A</b>
<b>KVA @ 480V, 3Ø:</b>	<b>789 KVA</b>	<b>789 KVA</b>

DEVICE	FUNCTION	FUNCTION
(1) BY-PASSING RELAY	BY-PASSING RELAY	BY-PASSING RELAY
(1) UNDER-VOLTAGE RELEASE RELAY	UNDER-VOLTAGE RELEASE RELAY	UNDER-VOLTAGE RELEASE RELAY
(1) DIFFERENTIAL PROTECTIVE RELAY	DIFFERENTIAL PROTECTIVE RELAY	DIFFERENTIAL PROTECTIVE RELAY
(1) VOLTAGE RELAY	VOLTAGE RELAY	VOLTAGE RELAY
(1) DIFFERENTIAL PROTECTIVE RELAY	DIFFERENTIAL PROTECTIVE RELAY	DIFFERENTIAL PROTECTIVE RELAY



**ONE LINE DIAGRAM**  
NOT TO SCALE

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 APPROVED BY: P. HILLERS  
 DATE: JANUARY 2011

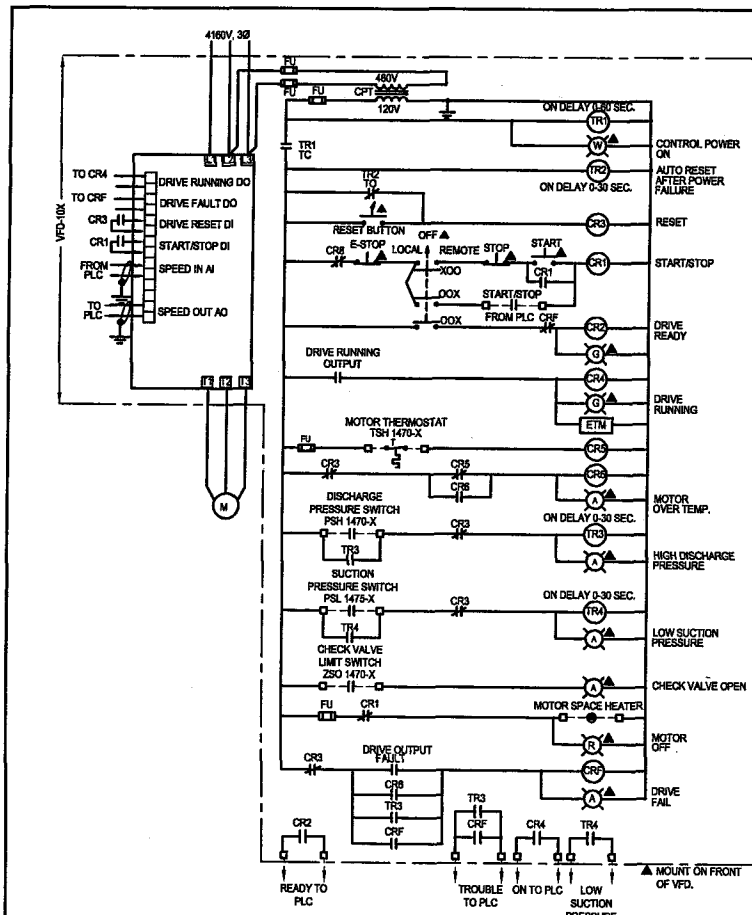
**GLOBALTECH ELECTRICAL ENGINEERING, INC.**  
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 LICENSE No. C.G.C.-1507230

**Globaltech**  
 A DESIGN - BUILD COMPANY

**SROC DIW MODIFICATION**  
**ONE LINE DIAGRAM**

PROJECT NO. GT52E06.DWG  
 SHEET NO. E-6





**INJECTION WELL PUMP 1470-X VFD SCHEMATIC**  
 NOT TO SCALE  
 X=2.3

**EXISTING PANELBOARD DWLP SCHEDULE**

NO.	DESCRIPTION	AMPS	VOLTS	PHASES	TYPE	REMARKS
1	CONTROL POWER ON	10	120	1	1	
2	AUTO RESET AFTER POWER FAILURE	10	120	1	1	
3	RESET	10	120	1	1	
4	START/STOP	10	120	1	1	
5	DRIVE READY	10	120	1	1	
6	DRIVE RUNNING	10	120	1	1	
7	MOTOR OVER TEMP.	10	120	1	1	
8	HIGH DISCHARGE PRESSURE	10	120	1	1	
9	LOW SUCTION PRESSURE	10	120	1	1	
10	CHECK VALVE OPEN	10	120	1	1	
11	MOTOR OFF	10	120	1	1	
12	DRIVE FAIL	10	120	1	1	
13	READY TO PLC	10	120	1	1	
14	TROUBLE TO PLC	10	120	1	1	
15	ON TO PLC	10	120	1	1	
16	LOW SUCTION PRESSURE TO PLC	10	120	1	1	
17	0.5					FIT 1478-1

TOTAL AMPS: BUS A, BUS B, BUS C, CONNECTED PER 41.3

**EXISTING PANELBOARD PPD SCHEDULE**

NO.	DESCRIPTION	AMPS	VOLTS	PHASES	TYPE	REMARKS
1	0.8 RECEPTACLE FOR AIT 1489 & AIT 1490	10	120	1	1	

TOTAL AMPS: BUS A, BUS B, BUS C, BUS D, CONNECTED PER 2.3

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 PROJECT CHECK BY: P. HILLERS  
 APPROVED BY: D. SHUMAN  
 DATE: JANUARY 2011

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 LICENSE No. C.E.C. 1507230

MARK E. LUTHER, PE  
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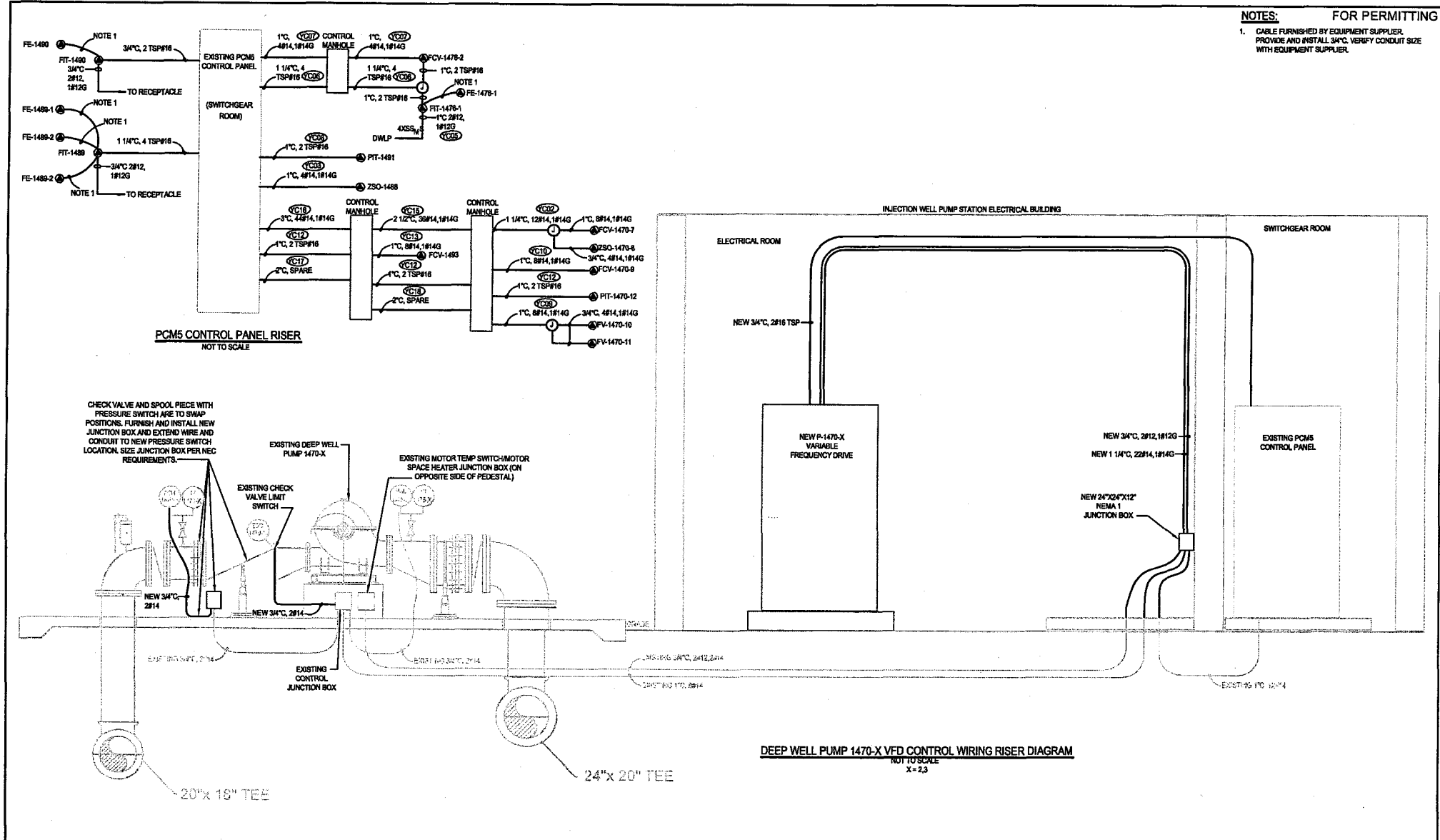
**Globaltech**  
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 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

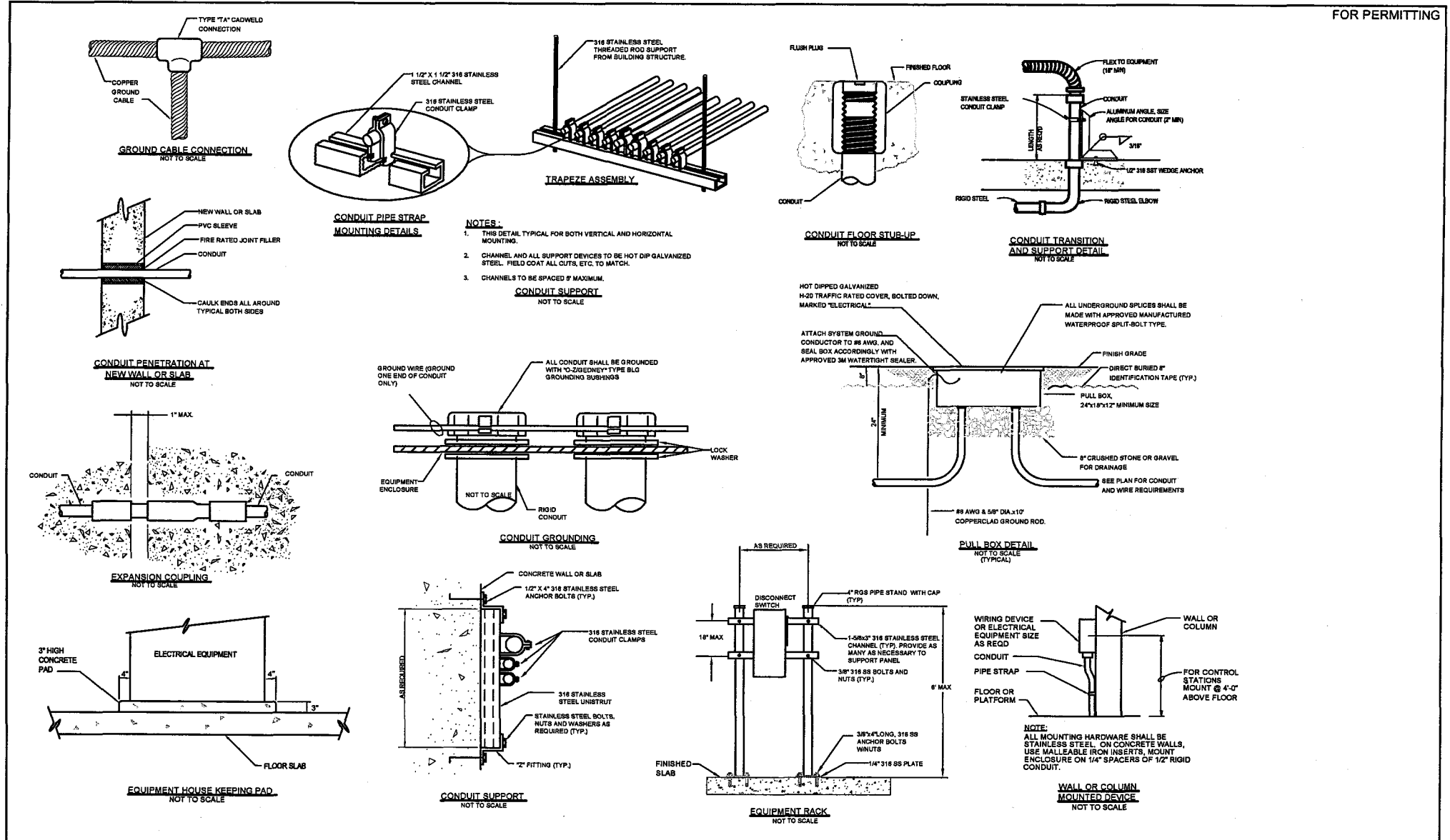
**SROC DIW MODIFICATION**  
**SCHEMATIC DIAGRAMS AND SCHEDULES**

PROJECT NO. G782607.DWG  
 SHEET NO. E-7

**NOTES:** FOR PERMITTING  
 1. CABLE FURNISHED BY EQUIPMENT SUPPLIER. PROVIDE AND INSTALL 34°C. VERIFY CONDUIT SIZE WITH EQUIPMENT SUPPLIER.



REV.	DATE	BY	CHKD	REMARKS	DESIGNED BY: M. LUTHER DRAWN BY: M. LUTHER CHECKED BY: P. HILLES APPROVED BY: D. SISKMAN DATE: JANUARY 2011	<b>Globaltech</b> A DESIGN - BUILD COMPANY 4722 N.W. BOCA RATON BLVD., SUITE C103 BOCA RATON, FLORIDA 33431 PH: (561) 997-6433 FAX: (561) 997-5811 LICENSE No. E.B.-0007225 LICENSE No. C.G.C.-1507230	PROJECT NO. 0152E08.DWG SHEET NO. E-8
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REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: P. HILLERS  
 APPROVED BY: D. SULLMAN  
 DATE: JANUARY 2011

**HILLERS ELECTRICAL ENGINEERING, INC.**  
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 LICENSE NO. E.E. 0007225  
 LICENSE NO. C.G.C. 1507230

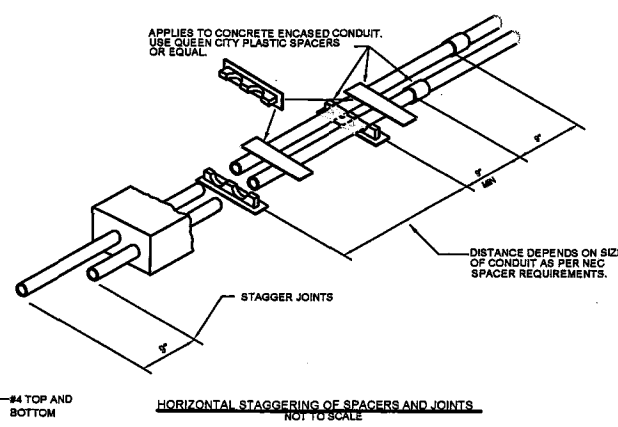
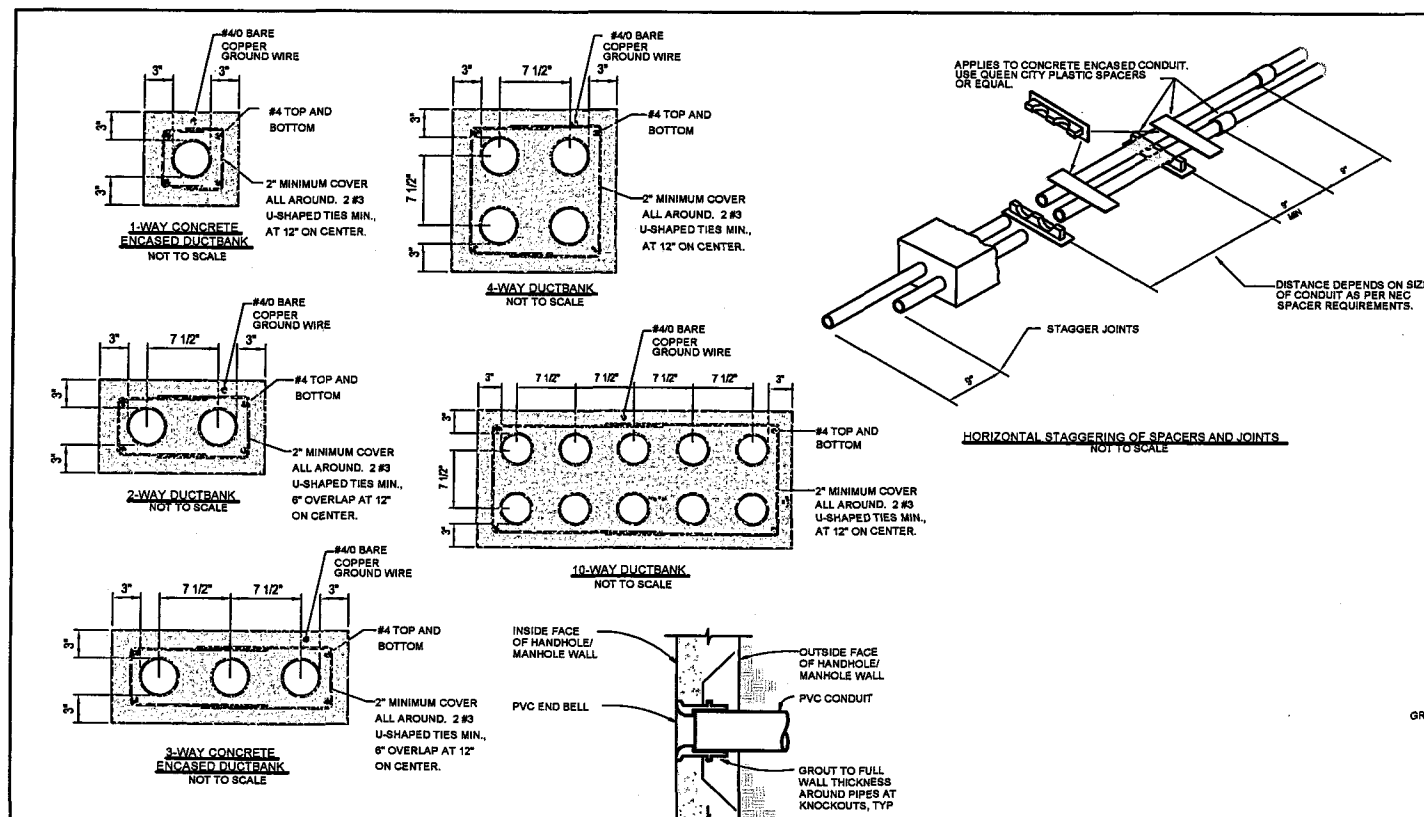
MARK E. LUTHER, PE  
 P. E. # 48801

**Globaltech**  
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 LICENSE No. E.E.-0007225  
 LICENSE No. C.G.C.-1507230

SROC DIW MODIFICATION  
 DETAILS

PROJECT NO. 075209.DWG  
 SHEET NO. E-9

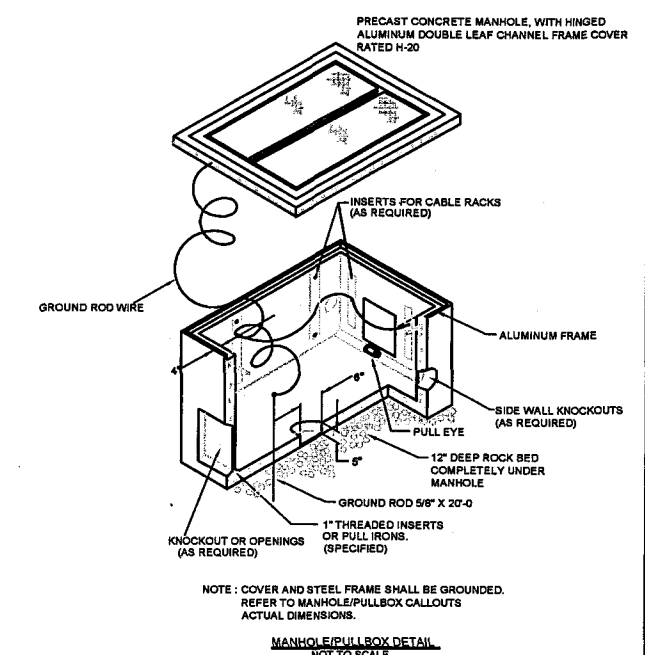


**NOTE FOR DUCT BANK INSTALLATION**

1. CONTRACTOR IS ALLOWED TO COMBINE INSTRUMENTATION CONDUITS IN ORDER TO INSTALL MULTIPLE CONDUITS IN A DUCTBANK SYSTEM.
2. CONTRACTOR IS ALLOWED TO COMBINE POWER CONDUITS IN ORDER TO INSTALL MULTIPLE CONDUITS IN A DUCTBANK SYSTEM.
3. CONTRACTOR SHALL NOT MIX INSTRUMENTATION CONDUITS WITH POWER CONDUITS IN ONE DUCTBANK.

**NOTES FOR ALL MANHOLES & PULL BOXES FOR PERMITTING**

1. CONTRACTOR SHALL PROVIDE REQUIRED END BELL LOCATIONS TO MANHOLE MANUFACTURER BEFORE MANUFACTURING.
  2. ALL MANHOLES SHALL BE 20'-4" TRAFFIC RATED. THE HEIGHT OF CONDUIT ENTRANCES SHALL BE COORDINATED BY THE CONTRACTOR TO ACCOMMODATE OTHER UTILITIES IN THE AREA.
  3. SEE CIVIL AND ELECTRICAL SITE PLANS FOR ELEVATIONS REQUIREMENTS.
  4. CONTRACTOR SHALL COORDINATE CONDUIT ENTRY REQUIREMENTS WITH SITE PLAN, PRIOR TO ORDERING MANHOLES.
- MANHOLE & PULL BOX NOTES**
1. CABLE RACK, API CR24-B OR EQUAL.
  2. CABLE HOOKS, API RA08 OR EQUAL.
  3. ARM LOCK, API HDL OR EQUAL.
  4. PULLING-IN IRONS INSTALL OPPOSITE CONDUIT ENTRANCE. POSITION BELOW LEVEL OF CONDUIT ENTRANCE. HUBBART & CO. CATALOG 9119 OR EQUAL. TERMINATE ALL DUCTS IN MANHOLE WITH END BELLS.
  5. MANHOLE COVERS SHALL BE MARKED "ELECTRICAL POWER" OR "ELECTRICAL INSTRUMENTATION" BY THE MANUFACTURER, WITH RAISED LETTERS.
  6. THE CONTRACTOR SHALL STAMP IN THE MANHOLE COVERS THE IDENTIFICATION NUMBER OF THE MANHOLE. LETTERS AND NUMBERS SHALL BE 2" HIGH, AS AN ALTERNATE THE CONTRACTOR MAY INSTALL SST NAMEPLATES ATTACHED WITH FOUR SST BOLTS TO THE MANHOLE.
  7. COVERS INDICATING THE MANHOLE NUMBER, LETTERS AND NUMBERS TO BE RAISED AND 2" HIGH. SUBMIT ONE SAMPLE NAMEPLATE FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION.
  8. GROUND ROD, 5/8"X2'-0" COPPER CLAD. BOND ALL METALLIC PARTS TO GROUNDING SYSTEM. PRECAST CONCRETE MANHOLE WITH COVER, U.S. PRECAST CORP. OR EQUAL.



NOTE: COVER AND STEEL FRAME SHALL BE GROUNDED. REFER TO MANHOLE/PULLBOX CALLOUTS ACTUAL DIMENSIONS.

**MANHOLE/PULL BOX DETAIL**  
NOT TO SCALE

REV. NO.	DATE	BY	CHKD.	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 ENGINEER BY: P. HILLERS  
 APPROVED BY: D. SHUMAN  
 DATE: JANUARY 2011

**HILLERS ELECTRICAL ENGINEERING, INC.**  
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 LICENSE No. C.G.C.-1507230

**Globaltech**  
 A DESIGN - BUILD COMPANY

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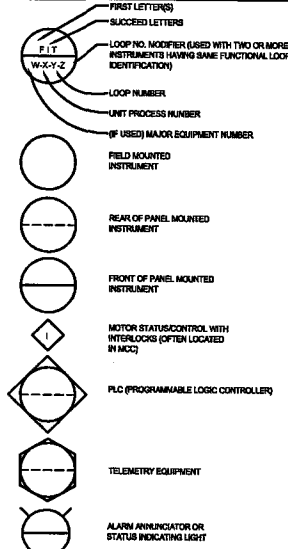
SROC DIW MODIFICATION		PROJECT NO. GTS2E10.DWG
DETAILS		SHEET NO. E-10

INSTRUMENT SOCIETY OF AMERICA TABLE

LETTER	FIRST LETTER		SUCCEEDING LETTERS		
	PROCESS OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS (A)		ALARM		USERS CHOICE (A)
B	BURNER FLAME		USERS CHOICE (B)		USERS CHOICE (B)
C	CONDUCTIVITY			CONTROL	CLOSE
D	DENSITY (S.G.)	DIFFERENTIAL			
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW RATE	RATIO			
G	GAUGE		GLASS	GATE	
H	HAND (MANUAL)				HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME OR SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT (PILOT)		LOW
M	MOTION				MIDDLE
N	STROKE		USERS CHOICE (N)	USERS CHOICE (N)	NORMAL
O	LOOP VEH. DETECTOR		OFFICE		OPEN
P	PRESSURE OR VACUUM		POINT (TEST CONNECTION)		
Q	QUANTITY OR EVENT		INTEGRATE		
R	RATIO		RECORD OR PRINT		
S	SPEED OR FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE (U)		MULTIFUNCTION (U)		
V	VIBRATION			VALVE	
W	WEIGHT OR FORCE		WELL		
X	UNCLASSIFIED (X)		UNCLASSIFIED (X)	UNCLASSIFIED (X)	UNCLASSIFIED (X)
Y	PHOTO CELL		LIGHT SOURCE	RELAY OR COMPUTE (Y)	
Z	POSITION			DRIVE, ACTUATE OR UNCLASSIFIED FIM CONTROL ELEMENT	

(\*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL.

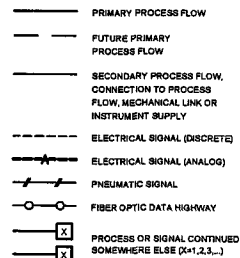
INSTRUMENT IDENTIFICATION



NOTES:

- COMPONENTS AND PANELS SHOWN WITH A DIAMOND (◆) ARE TO BE PROVIDED UNDER SECTION "INSTRUMENTATION & CONTROLS".
- COMPONENTS AND PANELS SHOWN WITH A DOUBLE ASTERISK (\*\*) ARE TO BE PROVIDED AS PART OF A PACKAGE OR MECHANICAL SYSTEM.
- COMPONENTS AND PANELS SHOWN WITH A TRIANGLE (▲) ARE EXISTING. COMPONENTS AND PANELS WHICH HAVE NO SYMBOL ATTACHED TO IT ARE EXISTING.
- COMPONENTS AND PANELS SHOWN WITH A HEXAGON (⬡) ARE EXISTING TO BE MODIFIED AND/OR RELOCATED. THE CONTRACTOR SHALL FIELD VERIFY.
- COMPONENTS AND PANELS SHOWN WITH A SQUARE (■) ARE FUTURE. DURING SHOP DRAWING PREPARATION, ALL THE EXISTING ANALOG AND DISCRETE POINTS FOR DETAILED INTERFACE AND INCLUDE IT AS PART OF SUBMITTAL.
- THE SINGLE INSTRUMENT & CONTROL SUPPLIER SHALL HAVE A ULL APPROVED SHOP.
- ALL PROCESS TUBING AND ISOLATION VALVES SHALL BE 1/4" - 3/8" S.S., UNLESS OTHERWISE NOTED.
- ALL CONTROL PANELS SHALL BE FURNISHED AND INSTALLED WITH A 1P-15A CIRCUIT BREAKER. SEE MECHANICAL PLANS AND SPECIFICATIONS FOR EQUIPMENT NUMBERS.

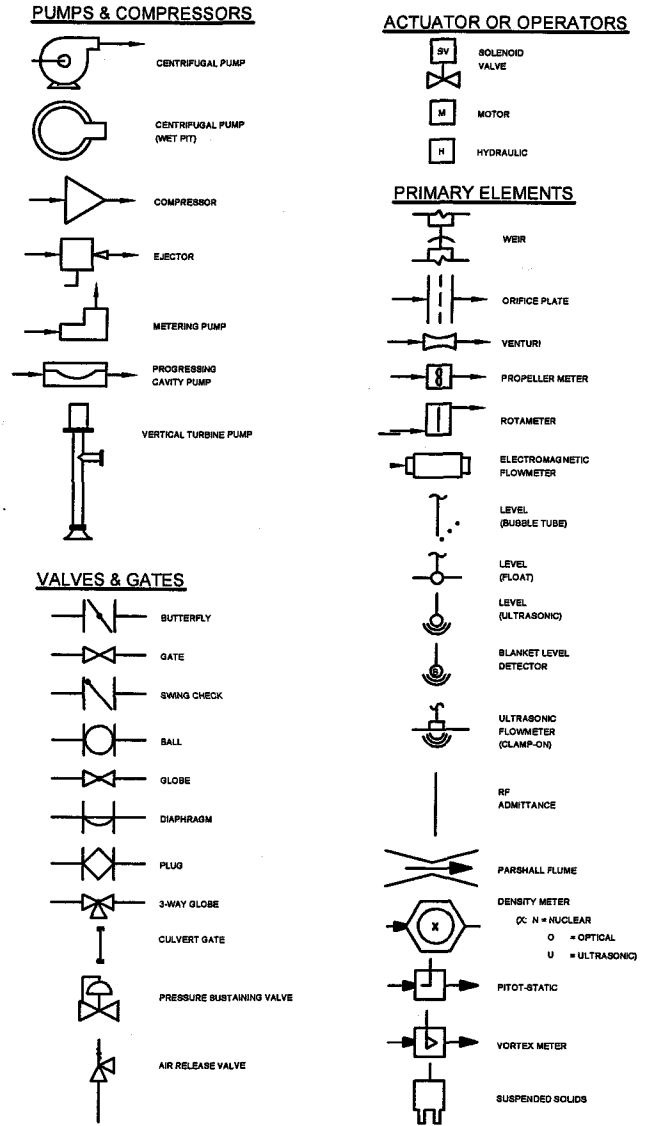
INSTRUMENT LINE SYMBOLS



INSTRUMENT ABBREVIATION

ACC	ACCELERATOR
BFP	BELT FILTER PRESS
CL2	CHLORINE
CLW	CLEARWELL
COM	COMMON
COND	CONDUCTIVITY
CP	CONTROL PANEL
DI, AI	DISCRETE INPUT, ANALOG INPUT
DO, AO	DISCRETE OUTPUT, ANALOG OUTPUT
D.O.	DISSOLVED OXYGEN
DR	DISTANCE RELAY
EFFL	EFFLUENT
EP	ELECTRICAL PANEL
ES	EMERGENCY STOP
ETM	ELAPSED TIME METER
FD	CHEMICAL FEEDER
FIL	FILTER
GEN	GENERATOR
HLO	HIGH-LOW-OFF
HLOW	HIGH-LOW-OFF-REMOTE
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HOTC	HAND-OFF-TIMER-COMPUTER
HL	HIGH/LOW
HSP	HIGH SERVICE PUMP
INFL	INFLUENT
JP	JOCKEY PUMP
LOS	LOCK-OUT-STOP
LPU	LINE PROTECTION UNIT
MCC	MOTOR CONTROL CENTER
MCP	MAIN CONTROL PANEL
ME	MISCELLANEOUS EQUIPMENT
M.G.	MILLION GALLON
MOV	MOTOR OPERATED VALVE
OCA	OPEN-CLOSE-AUTO
OC	OPEN-CLOSE
OO	ON-OFF
ORP	OXIDATION REDUCTION POTENTIAL
OSC	OPEN-STOP-CLOSE
OSCR	OPEN-STOP-CLOSE-REMOTE
PH	HYDROGEN ION CONCENTRATION
PREB	PRESSURE
RES	RESTORE
RF	RF (ADMITTANCE) LEVEL MONITOR
RIP	REMOTE I/O PANEL
RA	REMOTE/LOCAL
RSP	REMOTE SETPOINT
SA	SURGE ARRESTER
SEC	SECONDARY
SL	SLAKER
SF	SONIC FLOWMETER
SP	SETPOINT
SS	START/STOP
ST	STEP
STOR	STORAGE
SUS	SUSPENDED SOLIDS
SSRVs	SOLID STATE REDUCED VOLTAGE STARTER
TD	THERMAL DISPERSION
TP	TRANSFER PUMP
TURB	TURBIDITY
VFD	VARIABLE FREQUENCY DRIVE

INSTRUMENTATION LEGEND



FOR PERMITTING

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: N. LUTHER  
 DRAWN BY: N. LUTHER  
 CHECKED BY: P. HILLERS  
 APPROVED BY: O. SHUMAN  
 DATE: JANUARY 2011

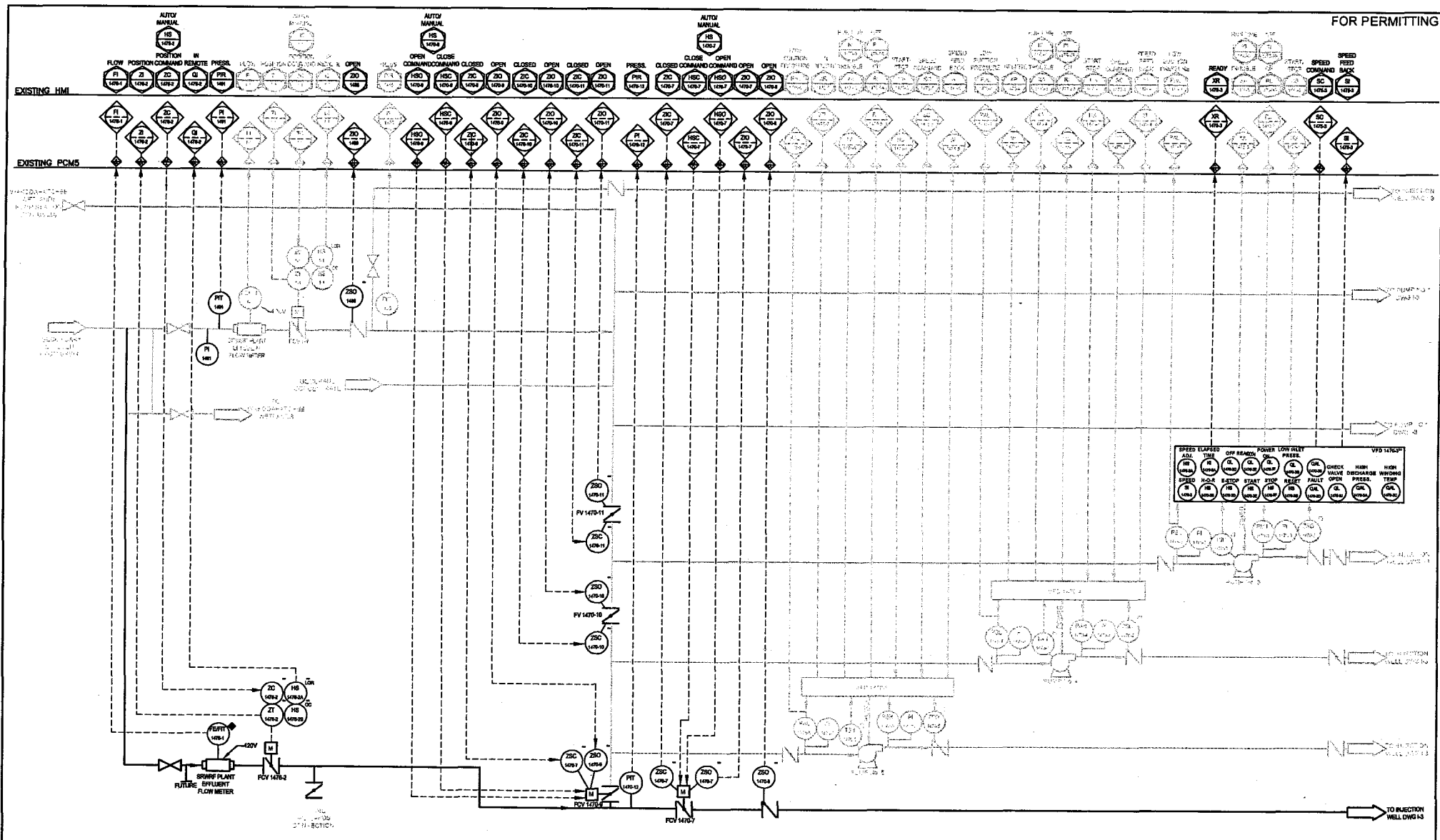
BYLERS ELECTRICAL ENGINEERING, INC.  
 2000 WEST 10TH AVENUE, SUITE 100  
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 (561) 997-5811  
 (561) 997-5811  
 LICENSE NO. 1507225  
 P. E. # 48801

**Globaltech**  
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 LICENSE No. E.B.-0007225  
 LICENSE No. C.C.G.-1507230

SROC DIW MODIFICATION  
 INSTRUMENTATION LEGEND AND SYMBOLS

PROJECT NO. GTS201.DWG  
 SHEET NO. I-1

FOR PERMITTING



REV.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 APPROVED BY: D. SHUMAN  
 DATE: JANUARY 2011

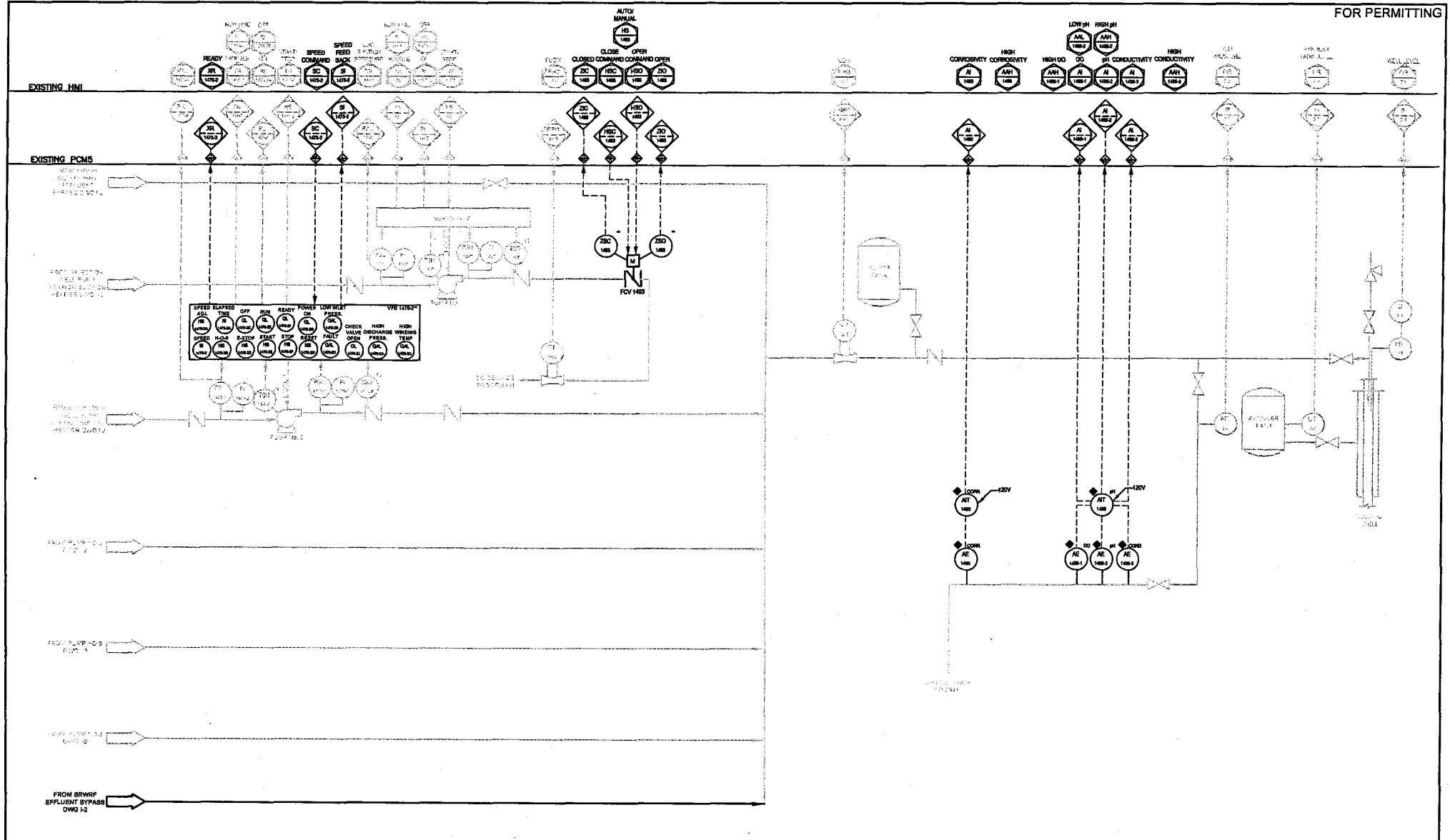
MARK E. LUTHER, PE  
 P. E. # 48801

**Globaltech**  
 A DESIGN - BUILD COMPANY

4722 N.W. BOCA RATON BLVD., SUITE C103  
 BOCA RATON, FLORIDA 33431  
 PH: (561) 997-8433  
 FAX: (561) 997-5811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

SROC DIW MODIFICATION  
 DIW PUMP STATION P&ID

PROJECT NO. GT5202.DWG  
 SHEET NO. I-2



REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 DRAWN BY: P. HILLERS  
 APPROVED BY: D. SCHUMAN  
 DATE: JANUARY 2011

**HILLERS ELECTRICAL ENGINEERING, INC.**  
 4722 N.W. BOCA RATON BLVD., SUITE 0103  
 BOCA RATON, FLORIDA 33431  
 PHONE: (561) 997-6433  
 FAX: (561) 997-5811  
 LICENSE No. C.G.C.-1507230

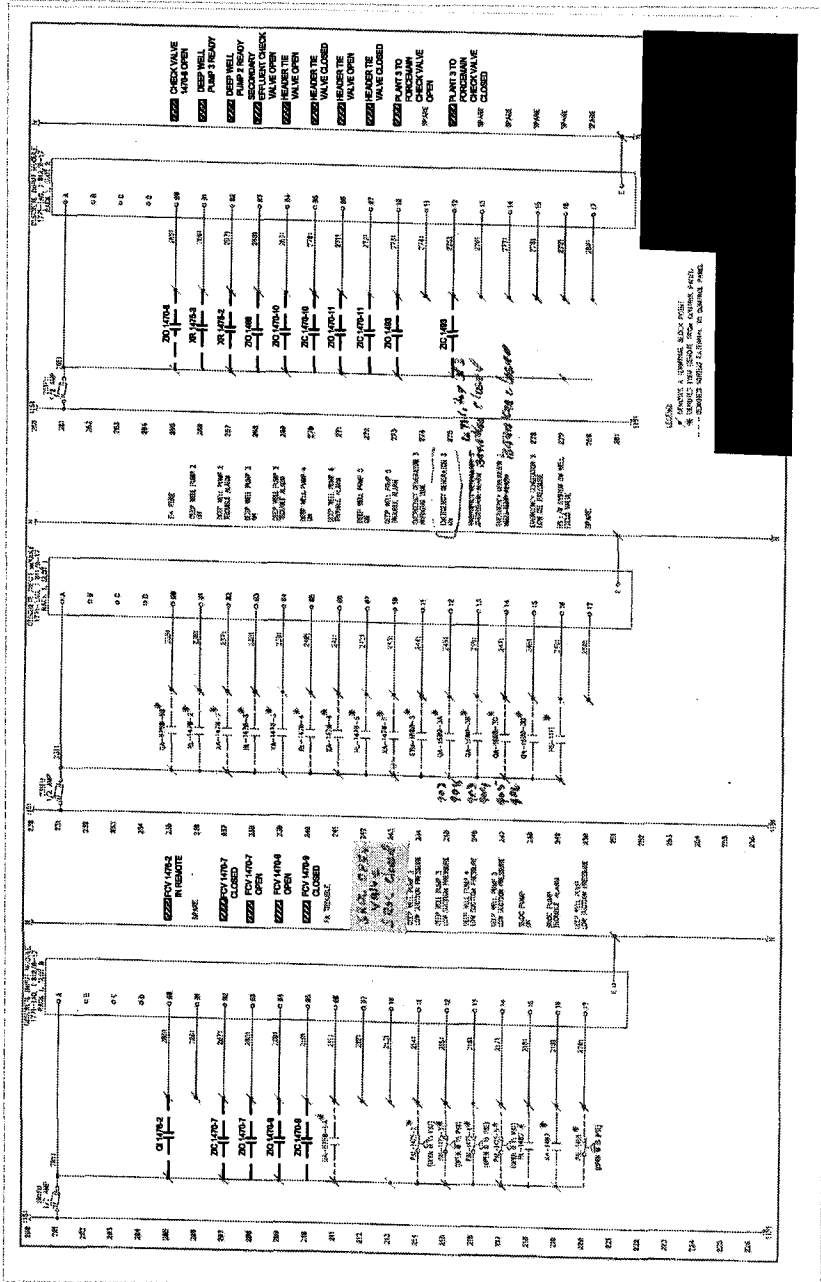
**Globaltech**  
 A DESIGN - BUILD COMPANY

4722 N.W. BOCA RATON BLVD., SUITE 0103  
 BOCA RATON, FLORIDA 33431  
 PHONE: (561) 997-6433  
 FAX: (561) 997-5811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

**SROC DIW MODIFICATION**  
 DIW P&ID

PROJECT NO. 078203.DWG  
 SHEET NO. I-3

FOR PERMITTING



PROJECT NO. 072501010  
SHEET NO. 1-4

SROC DIW/MODIFICATION  
PANEL PCMS DETAILS - SHEET 1

4722 N.W. BOCA RATON BLVD., SUITE C103  
BOCA RATON, FLORIDA 33431  
PH: (561) 997-8433  
FAX: (561) 997-5811  
LICENSE NO. CC-1407235  
LICENSEE, INC. G.C.C. - 1807230

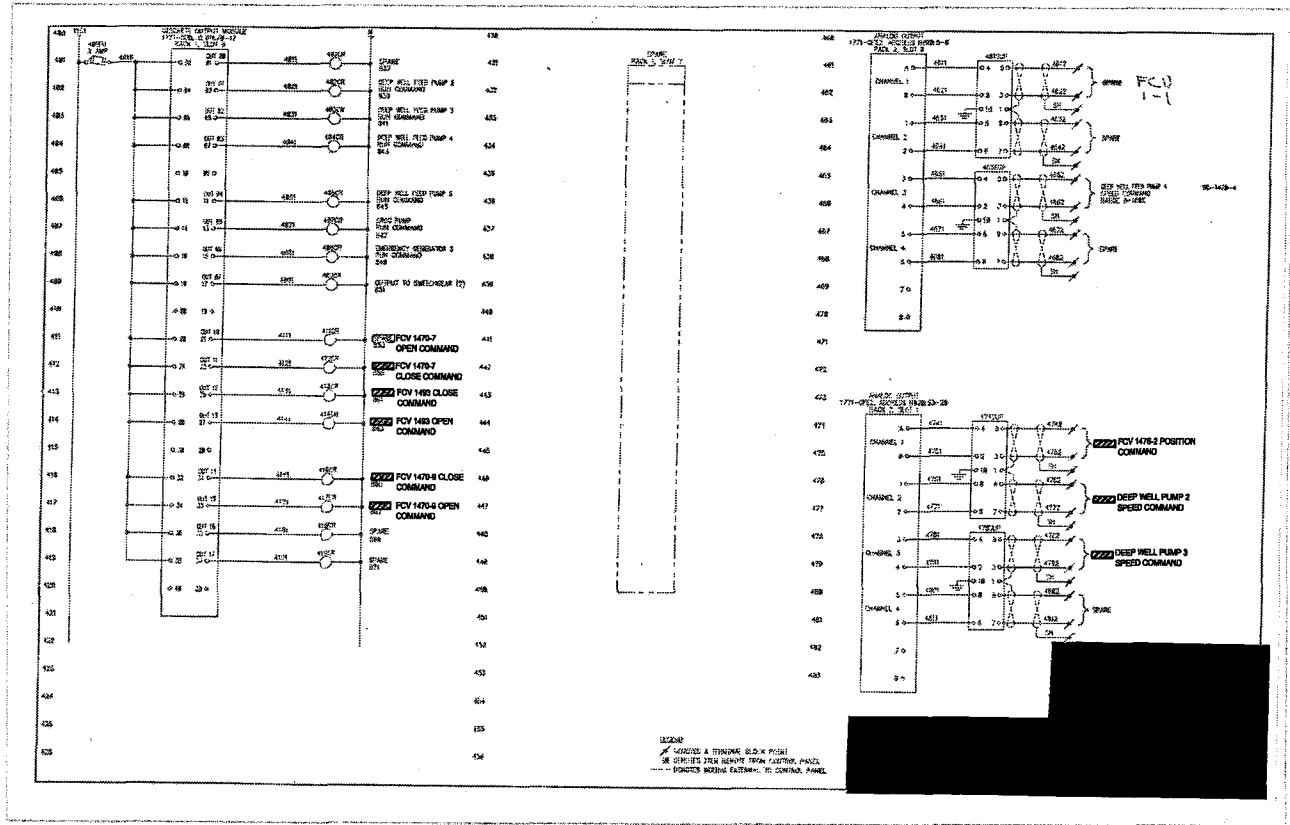
**Globaltech**  
A DESIGN-BUILD COMPANY

MARK E. LUTHER, PE  
P. E. # 48801

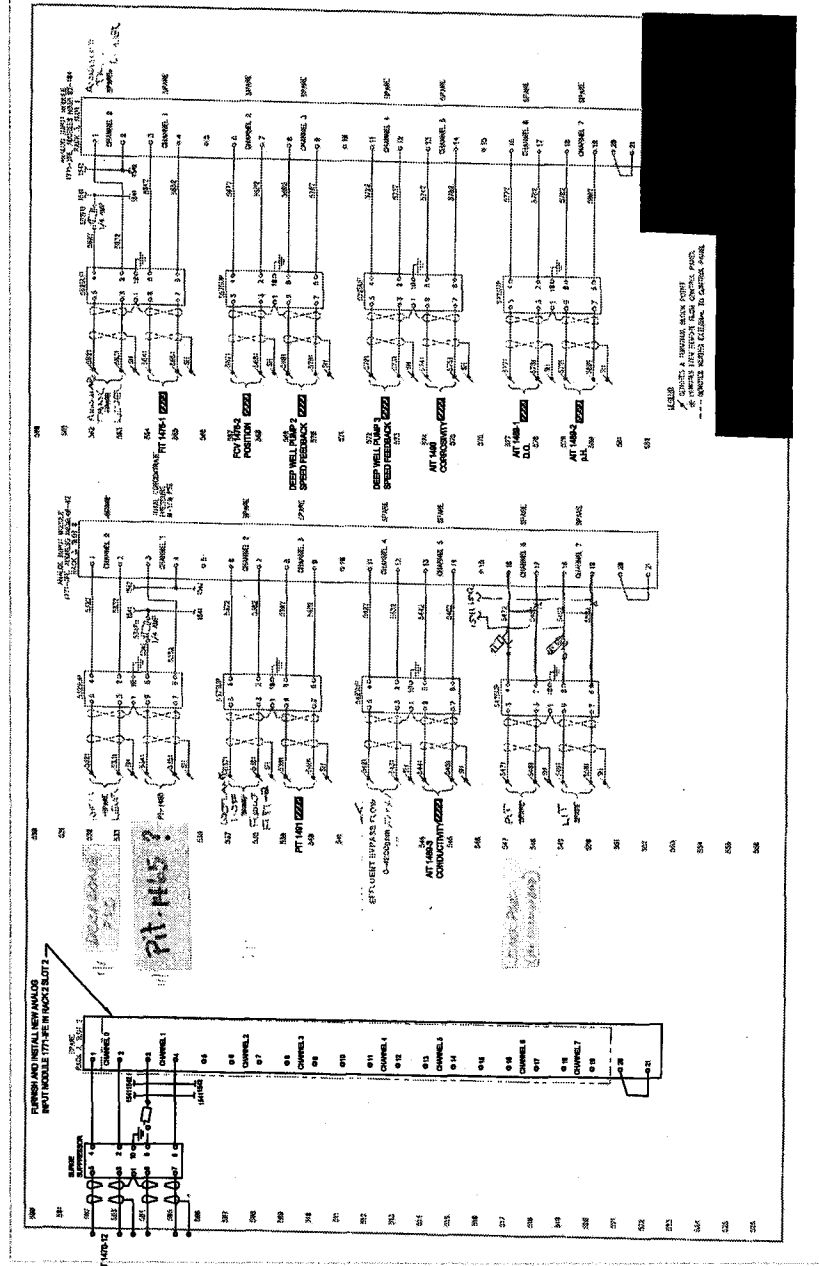
REVISION BY: M. LUTHER  
DATE: 11/11/03  
REVISION BY: M. LUTHER  
DATE: 11/11/03  
REVISION BY: M. LUTHER  
DATE: 11/11/03  
REVISION BY: M. LUTHER  
DATE: 11/11/03

NO.	DATE	BY	CHKD	REMARKS





				DESIGNED BY: M. LUTHER DRAWN BY: M. LUTHER CHECKED BY: P. HILLES APPROVED BY: D. SHUMAN DATE: JANUARY 2011	HILLBERG ELECTRICAL ENGINEERING, INC. 4722 N.W. BOCA RATON BLVD., SUITE C103 BOCA RATON, FLORIDA 33431 PH: (561) 997-8433 FAX: (561) 997-5811 LICENSE No. E.R.-0007225 LICENSE No. C.G.C.-1507230	4722 N.W. BOCA RATON BLVD., SUITE C103 BOCA RATON, FLORIDA 33431 PH: (561) 997-8433 FAX: (561) 997-5811 LICENSE No. E.R.-0007225 LICENSE No. C.G.C.-1507230	SROC DIW MODIFICATION PANEL PC5 DETAILS - SHEET 2	PROJECT NO. GTS2008.DWG SHEET NO. 1-5
REV. NO.	DATE	BY/IN	CHKD	REMARKS				



PROJECT NO. 012508.DWG  
SHEET NO. 1-6

SROC DIW MODIFICATION  
PANEL PCM5 DETAILS - SHEET 3

4722 N.W. BOCA RATON BLVD., SUITE 0103  
BOCA RATON, FLORIDA 33431  
TEL: (561) 997-5971  
FAX: (561) 997-5971  
LICENSE NO. EB-007725  
LICENSE NO. C.G.C.-1507230

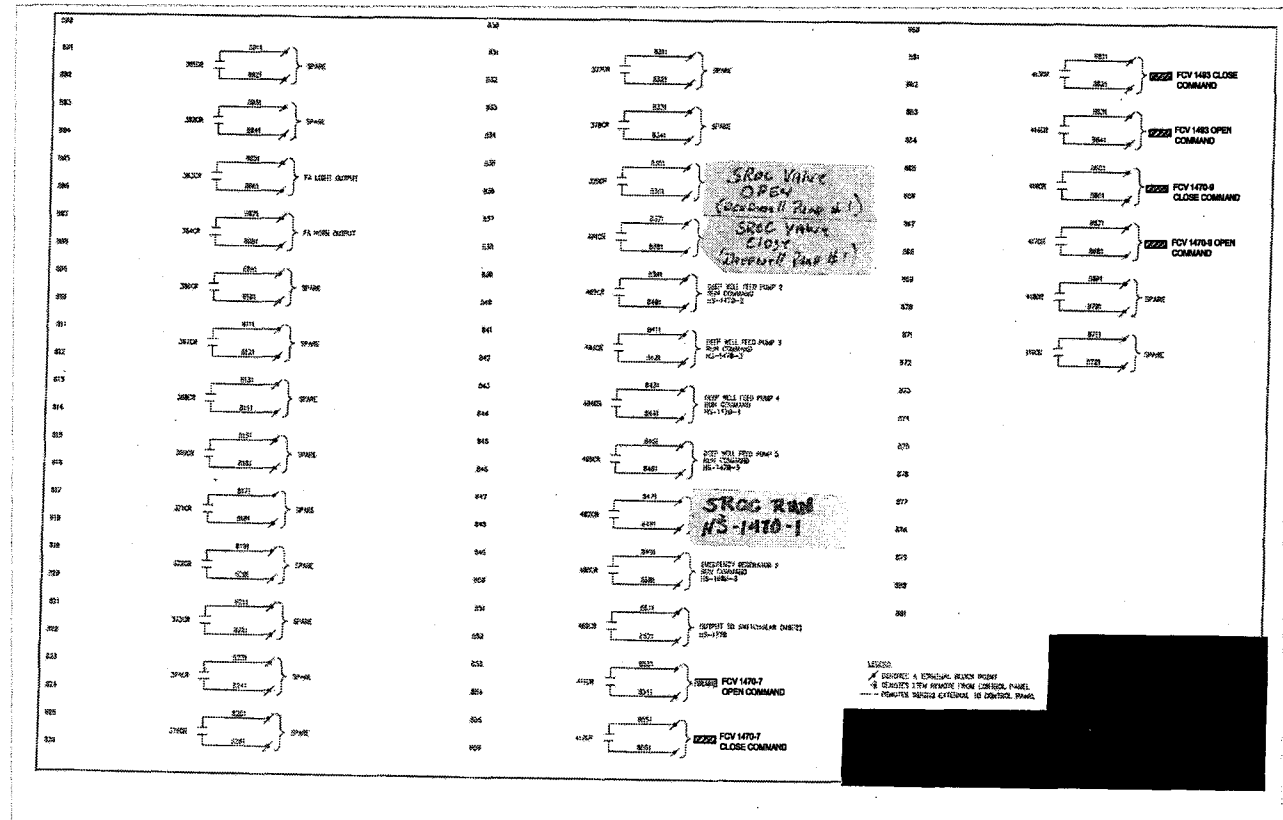
**Globaltech**  
A DESIGN - BUILD COMPANY.

**RELIERE ELECTRIC INC.**  
ELECTRICAL CONTRACTORS  
2011 N.W. 11TH AVENUE  
SUITE 100  
BOCA RATON, FL 33431  
(561) 997-5971  
www.reliere.com

MARK E. LUTHER, PE  
P. E. # 48871

DESIGNED BY: M. LUTHER  
CHECKED BY: M. LUTHER  
PROJECT NO.: 012508  
APPROVED BY: D. SHAMMA  
DATE: JANUARY 2011

REV.	DATE	BY/WH	CHKD	REMARKS



REV. NO.	DATE	BY/IN	CHKD	REMARKS

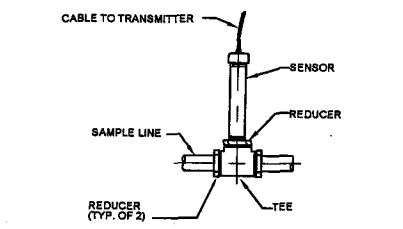
DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: P. HALLISE  
 APPROVED BY: C. SHUMAN  
 DATE: JANUARY 2011

**HILLIER ELECTRICAL ENGINEERING, INC.**  
 10000 BOCA RATON BLVD., SUITE 100  
 BOCA RATON, FLORIDA 33433  
 (561) 397-6433  
 (561) 397-6811  
 FAX: (561) 397-6811  
 LICENSE No. C.G.C.-1507230

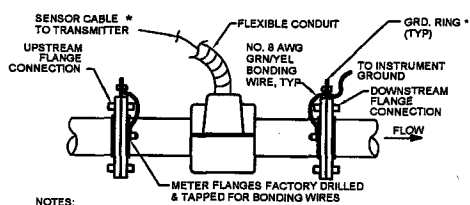
**Globaltech**  
 A DESIGN - BUILD COMPANY  
 4722 N.W. BOCA RATON BLVD., SUITE C103  
 BOCA RATON, FLORIDA 33431  
 PH: (561) 397-6433  
 FAX: (561) 397-6811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

PROJECT NO. GT2107.DWG  
 SHEET NO. 1-7  
 SRCC DIW MODIFICATION  
 PANEL PCM5 DETAILS - SHEET 4

PROJECT NO. GT2107.DWG  
 SHEET NO. 1-7

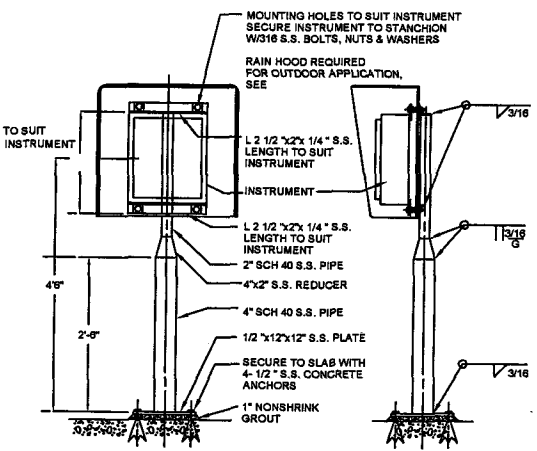


**FLOW INSERTION SENSOR INSTALLATION DETAIL**  
NOT TO SCALE



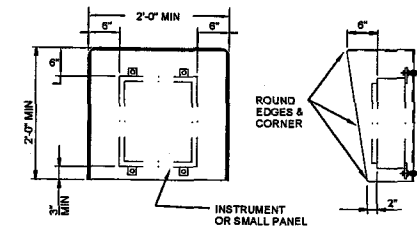
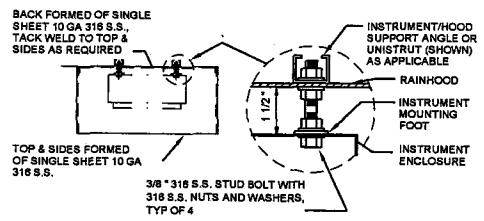
- NOTES:**
- COMPONENTS DESIGNATED BY \* ARE SUPPLIED BY INSTRUMENT MANUFACTURER.
  - IF PIPE IS NON-CONDUCTIVE BOND MAGMETER TO ONE OF THE FOLLOWING ACCEPTABLE GROUNDS:
    - A) METALLIC WATER PIPE IF BURIED PORTION IS MORE THAN 10'
    - B) STRUCTURAL STEEL.

**MAGNETIC FLOWMETER INSTALLATION DETAIL**  
NOT TO SCALE



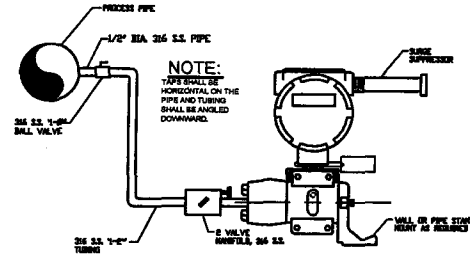
- NOTES:**
- ROUND OFF ALL EXPOSED EDGES AND CORNERS.
  - ALL S.S. SHALL BE 316 STAINLESS STEEL.

**STANCHION SUPPORT FOR CASE MOUNTED INSTRUMENTS**  
NOT TO SCALE



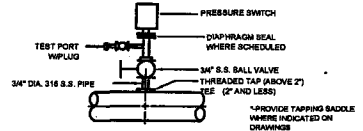
- NOTES:**
- ALL EXPOSED EDGES TO BE GRIND SMOOTH AND BURR FREE.
  - MOUNT RAIN HOOD BETWEEN INSTRUMENT AND MOUNTING BRACKET. DRILL HOLES IN RAIN HOOD AS PER MOUNTING HOLES FOR INSTRUMENT, SEE

**RAIN HOOD INSTALLATION**  
NOT TO SCALE

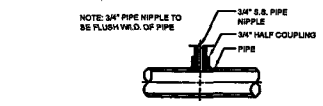


**NOTE:**  
TAP SHALL BE HORIZONTAL ON THE PIPE AND TAPPING SHALL BE ANGLED DOWNWARD.

**PRESSURE TRANSMITTER**  
NOT TO SCALE



**PRESSURE GAUGE, INSTRUMENT OR SWITCH**  
NOT TO SCALE



**PRESSURE TAP DETAIL**  
NOT TO SCALE

**NOTE:** ALL PRESSURE TAPS SHALL BE PROPER PRESSURE RATINGS FOR APPLICATION

REV. NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: M. LUTHER  
 DRAWN BY: M. LUTHER  
 CHECKED BY: M. LUTHER  
 APPROVED BY: D. SHUMAN  
 DATE: JANUARY 2011

**Globaltech**  
 A DESIGN - BUILD COMPANY

4722 N.W. BOCA RATON BLVD., SUITE C103  
 BOCA RATON, FLORIDA 33431  
 PH: (561) 997-8433  
 FAX: (561) 997-0811  
 LICENSE No. E.B.-0007225  
 LICENSE No. C.G.C.-1507230

SROC DIW MODIFICATION  
 INSTRUMENTATION DETAILS

PROJECT NO.	GT5208.DWG
SHEET NO.	I-8

**EXHIBIT - B**

**AUTHORIZATION STATUS REPORT  
October 19, 2011  
(CONTINUED)**

SUMMARY AND STATUS OF  
REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Globaltech Project No.
	<b>CONSULTANT SERVICE AUTHORIZATIONS</b>					
CSA-1	Beeline Rechlorination Facility	Approved	\$67,871.00	12/17/2008	09-006	GT 08-20-140
CSA-2	Mangonia Park Elevated Tank Repair/Replacement - Phase 1	Approved	\$35,364.00	12/17/2008	09-032	GT 08-20-141
CSA-3	WTP 10 Membrane Improvements	Approved	\$48,716.00	12/17/2008	08-074	GT 08-20-142
CSA-4	South Bay Regional Pump Station	Approved	\$49,664.00	3/17/2009	09-041	GT 09-20-151
CSA-5	Pahokee WWTP MCC Replacement	Approved	\$49,048.00	3/17/2009	09-039	GT 09-20-152
CSA-6	Belle Glade WWTP Grit Removal	Approved	\$32,698.00	3/17/2009	09-040	GT 09-20-153
CSA-7	Lift Station 5229 Evaluation	Approved	\$30,689.00	3/12/2010	10-032	GT 10-20-166
CSA-8	WTP 3 / SROC DIW Blending	Approved	\$48,858.00	2/14/2010	09-059	GT 10-20-184
CSA-8.1	WTP 3 / SROC DIW Blending - Supplement 1	Approved	\$47,070.00	10/05/2010	09-059	GT 10-20-184
CSA-8.2	WTP 3 / SROC DIW Blending - Supplement 2	Approved	\$24,475.00	4/15/2011	09-059	GT 10-20-184
CSA-8.3	WTP 3 / SROC DIW Blending - Supplement 3	Pending			09-059	GT 10-20-184
CSA-9	Pahokee WWTP NaOCl Preliminary Dsgn Report	Approved	\$16,698.00	11/02/2010	11-045	GT 10-20-208
CSA-10	West Canal Street South Belle Glade Water Main	Approved	\$22,000.00	9/28/2010	11-007	GT 10-20-202
CSA-11	WTP 2 Transfer Pumps	Approved	\$112,417.00	7/18/2011	11-107	GT 10-20-212
CSA-12	WTP 8 Sodium Hypochlorite Improvements	Approved	\$44,290.00	12/20/2010	09-005	GT 10-20-225
CSA-13	WTP 8 Elevated Walkway	Approved	\$15,969.00	4/13/2011	11-089	
CSA-13.1	WTP 8 Elevated Walkway - Supplement 1	Approved	-\$15,969.00	5/20/2011	11-089	
CSA-14	WTP 3 Groundwater Rule Improvements	Approved	\$46,210.00	3/10/2011	10-034	GT 11-20-241
CSA-16	South Bay Repump Station Improvements	Pending				
	Total CSAs		\$676,068.00			

## EXHIBIT - B

### AUTHORIZATION STATUS REPORT October 19, 2011 (CONTINUED)

#### SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Globaltech Project No.
<b>Work Authorizations</b>						
WA-1	WTP 3, 9, & SRWRF Hypochlorite I&C Improv.	Approved	\$198,732.00	12/17/2008	08-059	GT 08-20-143
WA-2	WTP 2 SCADA Tower	Approved	\$76,200.00	3/17/2009	08-071	GT 09-20-148
WA-2.1	WTP 2 SCADA Tower Supplement 1	Approved	\$4,599.00	8/3/2009	08-071	GT 09-20-148
WA-2.2	WTP 2 SCADA Tower Supplement 2	Approved	\$2,373.00	9/21/2009	08-071	GT 09-20-148
WA-3	WTP 2 Hypochlorite Improvements	Approved	\$66,887.00	3/10/2009	09-035	GT 09-20-149
WA-4	South Bay Regional WW Pump Station	Approved	\$550,336.00	8/18/2009	09-041	GT 09-20-168
WA-4.1	South Bay Pump Station - Supplement 1	Approved	\$0.00	9/14/2010	09-041	GT 09-20-168
WA-5	Pahokee WWTP MCC Replacement	Approved	\$192,625.00	5/06/2009	09-039	GT 09-20-155
WA-6	Belle Glade WWTP Grit Removal	Approved	\$235,567.00	9/15/2009	09-040	GT 09-20-171
WA-7	Lake Region Hypochlorite Improvements	Approved	\$137,559.00	7/8/2009	03-169	GT 09-20-167
WA-8	WTP 8 Hypochlorite Improvements	Approved	\$116,443.00	12/16/2009	09-005	GT 09-20-183
WA-9	WTP Wellfield Recharge - Riverbridge			NA	05-072	NA
WA-10	WTP 10 Membrane Improvements	Approved	\$278,654.00	6/16/2009	08-074	GT 09-20-164
WA-11	Southwest Boca Diversion Pump Stations	Approved	\$164,056.00	8/19/2009	04-218	GT 09-20-172
WA-11.1	SW Boca Diversion PS - Supplement 1	Approved	\$0.00	9/14/2010	04-218	GT 09-20-172
WA-12	WTP 2 Backwash Pump Station	Approved	\$190,000.00	4/28/2009	07-134	GT 09-20-156
WA-12.1	WTP 2 Backwash Pump Station - Supplement 1	Approved	\$9,338.00		07-134	GT 09-20-156
WA-12.2	WTP 2 Backwash Pump Station - Supplement 2	Approved	\$21,339.00	2/17/2010	07-134	GT 09-20-156
WA-12.3	WTP 2 Backwash Pump Station - Supplement 3	Approved	\$63,093.00	2/25/2010	07-134	GT 09-20-156
WA-13	Beeline Rechloramination Facility - Phase 1	Approved	\$194,500.00	2/18/2009	09-006	GT 09-20-147
WA-14	Mangonia Park Elevated Tank	Approved	\$427,636.00	4/7/2009	09-032	GT 09-20-157
WA-15	Hillsboro Wells Level Transmitter Wiring	Approved	\$36,751.00	6/16/2009	09-064	GT 09-20-165
WA-16	Beeline CDC Line Stop at Innovation Drive	Approved	\$13,379.20	4/1/2009	08-083	GT 09-20-154
WA-16.1	Electrical Service for KOB Lift Station	Approved	\$12,182.00	5/20/2009	08-083	GT 09-20-158
WA-17	WTP 3 - Ammonia Piping Modifications	Approved	\$10,207.00	6/16/2009	09-063	GT 09-20-163
WA-18	WTP 10 Train B Membrane Replacement	Approved	\$15,615.00	6/16/2009	09-062	GT 09-20-166
WA-19	WTP 10 Train A Membrane Replacement	Approved	\$14,023.00	9/24/2009	09-077	GT 09-20-174
WA-20	WTP 8 Ferric Chloride System	Approved	\$352,365.00	11/17/2009	07-114	GT 09-20-175
WA-20.1	WTP 8 Ferric Chloride System - Supplement 1	Approved	\$0.00	9/14/2010	07-114	GT 09-20-175
WA-21	Lift Station 5229 Improvements	Pending				
WA-22	Belle Glade Hypochlorite Improvements	Pending				
WA-23	Pahokee Hypochlorite Improvements	Approved	\$183,302.00	1/26/2011	11-045	GT 11-20-218
WA-24	Belle Glade DIW MIT	Approved	\$47,637.00	3/25/2010	10-001	GT 10-20-188
WA-25	WTP 3 Ground Water Rule Improvements	Approved	\$298,000.00		10-034	
WA-26	WTP 9 Ground Water Rule Improvements	Approved	\$156,101.00	1/12/2011	10-036	GT 10-20-226
WA-27	WTP 8 Ground Water Rule Improvements	Approved	\$146,100.00	2/02/2011	10-035	GT 10-20-231
WA-28	WTP 11 Ground Water Rule Improvements			NA	NA	NA
WA-29	Belle Glade Deep Injection Well			NA	NA	NA
WA-30	WTP 3 Acid Piping Replacement	Approved	\$59,432.00	5/3/2010	10-043	GT 10-20-193
WA-31	WTP 2 Ground Water Rule Improvements	Approved	\$69,389.00	4/22/2010	10-033	GT 10-20-190
WA-32	WTP 3 Degassifier Permeate Inlet Repair	Approved	\$25,000.00	3/29/2010	10-044	GT 10-20-189
WA-33	WTP 8 Filters 2 & 3 Media Replacement	Approved	\$180,800.00	7/28/2010	10-066	GT 10-20-196
WA-33.1	WTP 8 Filters 1 Media Replacement	Approved	\$88,328.00	2/01/2011	10-066	GT 10-20-196
WA-34	WTP 2 Fuel Tank Replacement	Approved	\$99,989.00	8/05/2010	10-053	GT 10-20-199
WA-34.1	WTP 2 Fuel Tank Replacement - Supplement 1	Approved	\$18,768.00	12/29/2010	10-053	GT 10-20-199
WA-35	WTP 3 Valve Replacement & Degassifier Repair	Approved	\$43,858.00	8/25/2010	10-074	GT 10-20-201
WA-36	Distribution System WQ Monitoring Construction	Approved	\$149,995.00	10/06/2010	10-072	GT 10-20-213
WA-37	Belle Glade WWTP Digester Stairs	Approved	\$60,982.00	11/22/2010	11-048	GT 10-20-220
WA-38	WTP 3 Diesel Fuel Tank	Approved	\$249,823.00	2/02/2011	09-004	GT 10-20-222
WA-39	Lake Region WTP Degas. Packing Replacement	Approved	\$114,585.00	1/26/2011	11-058	GT 10-20-227
WA-40	Lake Region Well No. 4 - Motor Replacement	Approved	\$24,850.00	1/24/2011	11-062	GT 10-20-230

**EXHIBIT - B**

**AUTHORIZATION STATUS REPORT  
October 19, 2011  
(CONTINUED)**

SUMMARY AND STATUS OF  
REQUESTS FOR AUTHORIZATIONS

Auth. No.	Description	Status	Project Total Amount	Date Approved	WUD No. Assigned	Globaltech Project No.
WA-40.1	Lake Region Well No. 4 - Supplement 1	Approved	\$64,467.00	5/12/2011	11-062	GT 10-20-230
WA-41	SRWC DIW Blending Modifications	Pending	\$1,034,929.00		09-059	GT 10-20-224
WA-42	SRWRF Digester Piping	Approved	\$145,818.00	2/16/2011	11-063	GT 10-20-227
WA-43	Belle Glade WWTP Transfer Line Valve Install.	Approved	\$26,673.00	3/25/2011	11-083	GT 11-20-217
WA-44	Belle Glade WWTP Control Bldg Gutter Replace.	Pending			11-084	
WA-45	WTP 8 Elevated Walkway	Approved	\$118,548.00	4/20/2011	11-089	GT 11-20-215
WA-45.1	WTP 8 Elevated Walkway - Supplement 1	Pending			11-089	GT 11-20-215
WA-46	Lake Region Well No. 3 - Pump Modification	Approved	\$98,000.00	5/12/2011	11-098	GT 11-20-253
WA-46.2	Lake Region Well No. 4 - Additional Rental	Approved	\$16,075.00	10/11/2011	11-098	GT 11-20-253
WA-47	SRPF Membrane Concentrate Bypass	Approved	\$177,229.00	6/8/2011	11-108	GT 11-20-240
WA-48	LR WTP Well Pump Conversions	Approved	\$458,409.00	6/21/2011	11-112	GT 11-20-262
WA-49	LR WTP Floridan Aquifer Production Well 8	Approved	\$1,459,740.00	6/21/2011	11-113	GT 11-20-263
WA-50	LR WTP RO Skid Energy Recover System Imp.	Approved	\$1,799,365.00	6/21/2011	11-114	GT 11-20-264
WA-51	SRWRF - Grit Slurry Piping Improvements	Approved	\$97,713.00	8/22/2011	11-135	GT 11-20-269
WA-52	SRWRF - Headworks Caustic Feed Piping	Approved	\$67,410.00	8/22/2011	11-138	GT 11-20-268
WA-53	SRWRF - Waste Activated Sludge Imp.	Approved	\$96,030.00	9/12/2011	11-140	GT 11-20-267
WA-54	Lake Region WTP Static Mixer Replacement	Approved	\$29,337.00	10/11/2011	11-150	GT 11-20-257
	Total WAs		\$11,111,141.20			
	Total CSAs + WAs		\$11,787,209.20			

Date: 10/18/2011

## EXHIBIT - C

### AUTHORIZATION STATUS REPORT OPTIMIZATION AND IMPROVEMENTS DESIGN-BUILD CONTRACT

(CONTINUED)

SUMMARY AND STATUS OF  
SBE / MINORITY BUSINESS TRACKING SYSTEM  
WA-41 - SROC Deep Injection Well Blending Modifications

	Total
<b>Current Proposal</b>	
Value of Consultant Service Authorization	\$0.00
Value of Work Authorization	\$1,034,929.00
Value of CSA and WA	\$1,034,929.00
Value of SBE Minority Letter of Intent	\$879,691.00
Actual Percentages	85.00%
<b>Signed / Approved Authorizations</b>	
Total Value of Approved Consultant Service Authorization	\$676,068.00
Total Value of Approved Work Authorization	\$10,076,212.20
Total Value of CSAs and WAs	\$10,752,280.20
Total Value of SBE Signed Subcontracts	\$8,041,547.20
Actual Percentages	74.78%
<b>Signed Authorizations Plus Current Proposal</b>	
Total Value of Approved CSAs Plus Current CSA Proposal	\$676,068.00
Total Value of Approved WAs Plus Current WA Proposal	\$11,111,141.20
Total Value of Approved and Proposed CSAs and WAs	\$11,787,209.20
Total Value of SBE Subcontracts and Letters of Intent	\$8,921,238.20
Actual Percentages	75.68%
<b>GOAL</b>	<b>75%</b>