

**Date:** November 2, 2009

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**To:** ALL BIDDERS

**PGAL Job #:** R0508003.03

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## ARCHITECT'S ADDENDUM 01

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To the Contract Documents for:

**COLLIN COUNTY COURTHOUSE ADDITION  
CENTRAL PLANT UPGRADE  
4600 BLOOMDALE ROAD  
MCKINNEY, TEXAS 75071**

This ADDENDUM is herewith made a part of the Contract Documents dated September 25, 2009, of the above-mentioned project. Except as may be otherwise described, labor and material for the Work hereinafter specified shall conform to all requirements of the Contract Documents.

The Contractor on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by the Addendum and required by the intent of the original Contract Documents. The Work is to be carried out in accordance with the following Addendum items issued in accordance with the Contract Documents. The Contractor shall acknowledge receipt of this Addendum in his bid.

This ADDENDUM supersedes and/or supplements all portions of the documents with which it conflicts.

This ADDENDUM supplements and/or amends the original documents as follows:

### DRAWING ATTACHMENTS:

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<b>Sheet #</b>	<b>Title</b>
n/a	

### SPECIFICATION ATTACHMENTS:

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<b>Section #</b>	<b>Title</b>
n/a	

### MODIFICATIONS TO DRAWINGS:

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#### **Addendum #1**

<b>Sheet #</b>	<b>Item #</b>	<b>Description</b>
M2.01		Existing make-up water control valve (connected to building automation system shall be disabled and removed.
M2.02		All piping shall be supported by either existing piping floor support steel or new floor support steel to match existing (pipe columns, horizontal I section steel, and grouted baseplates). All piping support structure shall be submitted for review. Victaulic is an approved material for above ground hydronic piping.

- M2.03 All piping shall be supported by either existing piping floor support steel or new floor support steel to match existing (pipe columns, horizontal I section steel, and grouted baseplates). All piping support structure shall be submitted for review.  
Victaulic is an approved material for above ground hydronic piping.
- M2.04 All piping shall be supported by either existing piping floor support steel or new floor support steel to match existing (pipe columns, horizontal I section steel, and grouted baseplates). All piping support structure shall be submitted for review.  
Provide a floor drain to the middle of the heat exchanger platform. Below the platform the floor drain shall be provided with a shutoff valve and hose bib connection.  
Victaulic is an approved material for above ground hydronic piping.
- M2.05 All piping shall be supported by either existing piping floor support steel or new floor support steel to match existing (pipe columns, horizontal I section steel, and grouted baseplates). All piping support structure shall be submitted for review.  
Victaulic is an approved material for above ground hydronic piping.
- M5.02 Add control point to provide status pickup from 1500KW generator. Sequence of operation shall allow only one 1000T chiller, associated pumps and cooling tower to operate when generator is running. Status shall check to see which chiller is lead or lag, and disable lag.  
The contract scope will include final sequence of operation testing that will include the engineer, the mechanical contractor, and the project controls contractor.  
Central Plant Control scope of work shall include control of all existing chillers, cooling towers and associated pumps. The existing 1000 Ton cooling tower includes two vertical turbine pumps and 2 two speed cooling tower fans and one bypass valve. The existing cooling tower serving two 500 Ton chillers includes two pumps and two single speed cooling tower fans and one bypass valve. All of these control points are existing.

**MODIFICATIONS TO SPECIFICATIONS:**

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**Addendum #1**  
**Section-description**

n/a

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End of Addendum #1

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ISSUED:

By:   
PGAL Architect of Record

11.2.09  
Date

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COLLIN COUNTY, TEXAS

OWNER'S ADDENDUM No. One (1)

IFB NO. 09782-09

INVITATION FOR BIDS

FOR

**Collin County Central Plant Upgrade**

DATE: November 2, 2009

NOTICE TO ALL PROSPECTIVE BIDDERS:

YOU ARE HEREBY DIRECTED TO MAKE CHANGES TO THE INVITATION FOR PROPOSALS IN ACCORDANCE WITH THE ATTACHED INFORMATION.

DELETE: 00100 Advertisement for Bids  
REPLACE WITH: 00100 Advertisement for Bids –REVISED  
**Revises the cost of the bidding documents to \$111.02.**

DELETE: 00410 Bid Form  
REPLACE WITH: 00410 Bid Form – REVISED  
**Adds unit cost for different items  
Adds Alternate No. 1  
Adds Alternate No. 2**

ADD: Pre-Proposal attendee list (attached).

ADD: Plan holders list from ABC Printing (attached)

ADD: Questions and Answers from BidSync (attached).

ADD: Paperwork to answer bid question No. 11 (attached)

ADD: Paperwork pertaining to chillers No. 1 and 2

OWNER CLARIFICATIONS:

- 1.) Rockwall Controls is the County's controls integrator. County will be responsible for programming to the control room. Contractor shall include Rockwall controls when testing. Provided controls need to be LON compatible.
- 2.) Milestone for all piping and existing chiller equipment to be online is no later than March 1<sup>st</sup> 2010.
- 3.) The contractor will be required to obtain the permit from the City of McKinney.

- 4.) For tie-ins to the existing operation plant there shall be no more than 8 hours of shut down time per day. The Central Plant and the Jail are 24 hour facilities. Loop must be operational to fill the tower.
- 5.) The paint color for the new chiller piping will be blue. All domestic water lines will be green. All existing chiller lines shall be painted as part of the scope. Exact color will be sent at a later date.
- 6.) Check all drawings for the latest revisions. ABC Imaging and BidSync have the correct drawings.
- 7.) Removing the 1500 substation and installing the 2500 substation requires all piping to be complete and the two 500 ton chillers must be fully operational to fill the tower.
- 8.) Removing heat exchangers from the other two buildings will need to be coordinated with the Owner and must be removed and installed in less than two days, possible over a weekend.
- 9.) Contractor must provide an addition to the existing concrete pad with the expansion of the new 2500 substation.
- 10.) Contractor to move the existing Eaton ATS that's mounted on the same concrete pad of the 1500 substation to the east wall by the other two new ATS. Refer to page A2.01 note 9 & 10 for the new location of ATS that will be moved.

PLEASE NOTE ALL OTHER TERMS, CONDITIONS, SPECIFICATIONS DRAWINGS, ETC. REMAIN UNCHANGED.

SINCERELY,  
FRANKLIN YBARBO  
PURCHASING AGENT

## SECTION 00100 - ADVERTISEMENT FOR BIDS-REVISED

BY ORDER OF the Collin County Commissioners Court, Collin County, Texas, bids will be received electronically through the BidSync web site located at [www.bidsync.com](http://www.bidsync.com). Bidders are encouraged to submit bids electronically by utilizing the BidSync System. However, you may submit a sealed hard copy paper bid to the Office of the Collin County Purchasing Agent. All bids, both electronic or hard copy paper form must be submitted as stated below:

**SUBMIT BIDS HARD COPY PAPER  
BIDS TO:**

**Office of the Purchasing Agent  
Collin County Courthouse Annex A  
200 South McDonald Street, Suite 230  
McKinney, Texas 75069**

**\*\*NOTE:  
All Correspondence must include suite  
number to assist in proper delivery.\*\***

**SUBMIT NO LATER THAN:**

**2:00 P.M., Thursday, November 5, 2009**

**MARK ENVELOPE:**

**IFB No. 09782-09  
Project: Collin County Central Plant Upgrade**

*ALL BIDS MUST BE RECEIVED IN THE OFFICE OF THE PURCHASING AGENT  
BEFORE OPENING DATE AND TIME*

SCOPE OF WORK INCLUDES all materials, labor, equipment and services to produce or be incorporated in such construction. Contract will be a general contract for the construction of upgrades to existing Central Plant facilities, bypass, removal and reinstallation of equipment, new platforms, hanrails, sstairs and ladders and upgrades to piping and controls. Payment for the contract work shall be made pursuant to the terms of the Contract Documents.

Collin County uses BidSync for the notification and dissemination of all solicitations for commodities and services. The receipt of solicitations through any other company may result in your receipt of incomplete specifications and/or addendums which could ultimately render your bid non-compliant. Collin County accepts no responsibility for the receipt and/or notification of solicitations through any other company.

COLLIN COUNTY APPRECIATES your time and effort in preparing a bid. Hard copy paper bid must be in a separate sealed envelope, manually signed in ink by a person having the authority to bind the firm in a contract and marked clearly on the outside as outlined above. Please note that all bids must be received at the designated location by the deadline shown. Bids received after deadline shall be considered void and unacceptable. Collin County is not responsible for lateness of mail, carrier, etc. and time/date stamp clock in the Collin County Purchasing Department shall be the official time of receipt. All bid forms provided in this Invitation for Bid must be completed prior to submission. Failure to complete the forms shall render your bid null and void. We would appreciate you indicating on your "NO BID" response any requirements of this bid request which may have influenced your decision to "NO BID".

BIDS WILL BE publicly opened in the Office of the Purchasing Agent, Collin County Administration Building, 2300 Bloomdale Rd., Ste 3160, McKinney, Texas 75071, at the date and time indicated above.

A PRE-BID CONFERENCE will be held by Collin County in the Central Plant Conference Room located at 4600 Community Ave, McKinney, TX 75071 on Friday, October 23, 2009, at 9:00 a.m. in order for bidders to ask questions regarding the proposed work. All bidders desiring to bid the work should have a representative at the pre-bid conference.

No oral, telegraphic, telephonic or facsimile bids will be considered. IFB's, RFP's, RFQ's and RFI's may be submitted in electronic format via BidSync at [www.bidsync.com](http://www.bidsync.com).

**BID SECURITY:** All Bidders must submit, prior to the bid opening time, a Cashier's Check or acceptable Bid Bond payable without recourse to Collin County in the amount of not less than five percent (5%) of the total bid plus alternates as submitted.

1. Bid Bond or Cashier's Check may be mailed or hand delivered to the Office of the Collin County Purchasing Agent, Courthouse Annex A, 200 S. McDonald Street, Suite 230, McKinney, TX 75069 and shall be delivered in an envelope, marked plainly on the outside with the Bid Name and Number.
2. Bid Bond may be faxed to the Purchasing Department at 972-548-4694.
3. Bid Bond may be e-mailed to: [mdobecka@collincountytx.gov](mailto:mdobecka@collincountytx.gov)

Regardless of delivery method, all Bid Bonds shall be received prior to the bid opening time to be considered.

The original Bid Bond shall be received in the Collin County Purchasing Department **no later than** close of business on the third working day after the bid opening. Late receipt of original Bid Bond shall be cause for rejection of bid.

**BONDS:** Contractor must furnish a performance bond and payment bond within ten (10) consecutive calendar days following award of contract. The bonds shall be issued by a corporate surety in accordance with all Texas Law, including but not limited to, Chapter 2253 of the Texas Government Code and Chapter 3503 of the Texas Insurance Code, for public works projects.

**INFORMATION AND BIDDING DOCUMENTS:** Drawings, specifications, instructions to bidders, and bidding and contract documents may be examined without charge at the following locations:

FW Dodge McGraw Hill  
9155 Sterling Dr.  
Suite 160  
Irving, Texas 75063  
Phone: (972) 819-1310  
Fax: (775) 429-0593

iSqFt  
14109 Inwood Rd.  
Dallas, Texas 75244  
Phone: (888) 601-5761

North Texas Construction Report  
2828 Trinity Mills Pkwy., Suite 330  
Carrrollton, Texas 75006  
Phone: (972) 820-9020

Fax: (866) 570-8187

Fax: (972) 820-8910

BIDDERS MAY SECURE copies of the Bidding Documents from:

ABC Imaging  
2001 Bryan Street, Suite 150  
Dallas, TX 75201  
Phone 214-231-1332  
Fax 214-231-1337  
Email: [dallas@abcimaging.com](mailto:dallas@abcimaging.com)  
Website: <http://www.abcimaging.com/divisions.aspx?did=2>

Single sets of Drawings and Specifications, upon payment of **\$111.02** (non-refundable).

**END OF SECTION**

**Revised 11/2008**

## SECTION 00410 - BID FORM-REVISED

Bid of \_\_\_\_\_ Date \_\_\_\_\_  
(Name of Firm)

BID NO. **09782-09**

TO: **COLLIN COUNTY, TEXAS (Owner)**

FOR: **COLLIN COUNTY CENTRAL PLANT UPGRADE**

The undersigned, as Bidder, declares that the only person or parties interested in this bid are those principals named herein, that his/her bid is made without collusion with any other person, firm or corporation, that he/she has carefully examined the Contract Documents including the Form of Contract, Invitation to Bidders, Instruction to Bidders, Specifications and the Drawings, therein referred to and has carefully examined the locations, conditions and classes of materials for the proposed work, and agrees that he/she will provide all the necessary labor, machinery, tools, equipment, apparatus and other items incidental to construction and will do all the work and furnish all the materials called for in the Contract Documents in the manner prescribed therein.

It is understood that the following quantities of work to be done at unit prices are approximate only and are intended principally to serve as a guide in evaluating bids.

It is agreed that the quantities of work to be done at unit prices and materials to be furnished may be increased or diminished as may be considered necessary in the opinion of Collin County to complete the work fully as planned and contemplated, and that all quantities of work, whether increased or decreased, are to be performed at the unit prices set forth below except as provided for in the Contract Document.

It is understood and agreed that the Bid Security accompanying this bid will be returned to the bidder, unless in case of the acceptance of the bid the Bidder shall fail to execute a contract and file a Performance Bond, a Payment Bond, a Maintenance Bond and a Certificate of Insurance within ten (10) consecutive calendar days after its acceptance, in which case the Bid Security shall become the property of the Owner and shall be considered as payment for damages caused by delay and other inconveniences suffered by the Owner because of such failure of the Bidder.

It is understood and agreed that all work under this Contract will be completed within  consecutive calendar days. Completion date will be established in the Notice to Proceed.

The undersigned proposes and agrees to perform all work of whatever nature required, in strict accordance with the drawings and specifications for the following sum of prices, to-wit:

Labor and Material Breakdown:

A:	Total Material Cost Incorporated in Project*	\$ _____
B:	Total Labor Cost Incorporated in Project*	\$ _____
C:	Bid Grand Total*	\$ _____

\*Item A & B Must Add Up to C. the Bid Grand Total.

\* Bid Grand Total (written in words) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\*NOTE: The contract award will be based on Total Bid Price

Unit Prices:

24" Piers	\$ _____	per foot
Additional Trenching	\$ _____	per foot
Curlex Erosion Mat with Seed	\$ _____	per yard
Concrete Flat Work	\$ _____	per yard

**Alternate No. 1-** Remove chiller from contract (per attached) \$ \_\_\_\_\_ deduct

**Alternate No. 2-** To include disassembly and removal of the following:

Trade-in value for the 1500 substation	\$ _____	deduct
Trade-in value for two (2) 40 HP chiller pumps	\$ _____	deduct
Trade-in value for one (1) 60 HP chiller pump	\$ _____	deduct
Trade-in value for the Admin Bldg. heat exchangers (2)	\$ _____	deduct

Total for Alternate No. 2 \$ \_\_\_\_\_ deduct

Collin County would like to offer the option for successful bidder to accept credit card payments for services rendered. Collin County currently uses MasterCard as its credit card provider.

Would your company be willing to accept monthly credit card payments? Yes No

If applicable, does your company offer any additional discounts for timely payment with or without credit card payment? Yes No

If yes, please explain \_\_\_\_\_

Receipt is hereby acknowledged of the following Addenda to the Contract Documents.

Addendum No. 1 dated _____	Received _____
Addendum No. 2 dated _____	Received _____
Addendum No. 3 dated _____	Received _____
Addendum No. 4 dated _____	Received _____

The undersigned Bidder hereby declares that he/she has visited the site of the Work and has carefully examined the Contract Documents pertaining to the Work covered by the above Bid, and he/she further agrees to commence work within ten (10) consecutive calendar days after date of written Notice to Proceed and to substantially complete the work on which he/she has bid within \_\_\_\_\_ consecutive calendar days subject to such extensions of time allowed by Specifications.

The undersigned Bidder agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) consecutive calendar days after closing time for receiving bids.

The undersigned Bidder agrees that if he/she is notified of the acceptance of this bid within ninety (90) consecutive calendar days of the time set for opening of bids, he/she will execute a contract for the Work for the stated prices, and will execute and deliver to Owner within ten (10) consecutive calendar days after signing of contract, a Performance Bond and a Payment Bond for the total amount of the Contract and a Certificate of Insurance, as stipulated in the Specifications.

The undersigned Bidder further agrees that the enclosed Bid Security in the amount of five percent (5%) of the Greatest Amount of Bid is the agreed amount of liquidated damages which Collin County, Texas will suffer by the failure of the undersigned Bidder to execute the Contract and to furnish the Performance and Payment Bonds and by reason of such failure on the part of the undersigned Bidder, the Bid Security will immediately be forfeited to Collin County, Texas.

The undersigned Bidder also understands that the Commissioners' Court of Collin County, Texas reserves the right to reject any and/or all bids covered in this bid request and to waive informalities or defects in bids or to accept such bids as it shall deem to be in the best interest of Owner.

It is understood that the work proposed to be done will be accepted when fully completed in accordance with the Contract Documents.

Accompanying this bid, is a certified check, cashier's check or Bid Bond in the amount of five percent (5%) of the total amount bid. Also accompanying this bid, all the information required in Section 00200 – Instructions to Bidders.

The undersigned certifies that the bid prices contained in this bid have been carefully checked and are submitted as correct and final. The unit prices have been shown in words and figures for each item listed in this bid and it is understood that in the event of a discrepancy, the words shall govern.

Respectfully submitted,

Contractor: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Seal and Authorization  
(If a Corporation)

\_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail  
Address: \_\_\_\_\_

END OF SECTION

Revised 3/2009

## **SECTION 00410**

### **Alternate Pricing #1 for Owner to Provide Chiller**

#### **Provide pricing to remove listed equipment and associated scope:**

- Remove one (1) new 1,000 ton specified manufacturers chiller
- Remove housekeeping pad for new chiller.
- Remove transport to Collin County Central Plant.
- Remove setting in place.
- Remove installing neoprene isolator pads.
- Remove providing a factory trained technician for start up.
- Remove Manufactures Mounted Variable Speed Drive.

#### **General Contractor to Include:**

- General Contracting duties.
- Energy Management controls
- Refrigerant monitor or SCBA.
- **Providing access for equipment. (Chiller will arrive and be rigged in place as one (1) piece)**
- Valves for vents and drains
- Pressure gauges for chilled water lines
- Relief piping to the atmosphere.
- Coordination drawings of central plant.
- Occupancy adjustments after completion of manufactures start-up
- All Piping and Wiring
- Piping Insulation
- Evaporator Flow/Differential Pressure Switch, Condenser Flow/Differential Pressure Switch.
- Permits or fees.



## PRE-BID MEETING SIGN-IN SHEET

<b>Project:</b>	IFB 09782-09, Collin County Central Plant Upgrade	<b>Meeting Date:</b>	October 23, 2009
<b>Facilitator:</b>	Matt Dobecka, CPPB Collin County Purchasing	<b>Place/Room:</b>	Central Plant Conf. Room

Name	Company	Phone	Fax	E-Mail
Debbie Archer	Brandt	972-395-6153		<a href="mailto:darber@brandteng.com">darber@brandteng.com</a>
Charlie Henderson	Angiel Elec.	214-834-6369		<a href="mailto:chenderson@angielecc.com">chenderson@angielecc.com</a>
Ronnie Filewood	Infinity Contractors	817-838-8700	817-838-5288	<a href="mailto:rfilewood@infinitycontractors.com">rfilewood@infinitycontractors.com</a>
Charles Lee	Roderick Lee Elec. Contractors	214-631-3600	214-631-3602	<a href="mailto:dskaggs@rl-electrical.com">dskaggs@rl-electrical.com</a>
Bobby Dunn	Big Sky	214-226-3392	972-226-6133	<a href="mailto:bdunn@bigskyconstruction.com">bdunn@bigskyconstruction.com</a>
Fred Krempf	H&G Systems	214-341-5486	214-343-7496	<a href="mailto:fredk@handgsystems.com">fredk@handgsystems.com</a>
Kirk Fitzgerald	H&G Systems	214-341-5486	214-343-7496	<a href="mailto:kirkf@handgsystems.com">kirkf@handgsystems.com</a>
Bruce Houghton	H&G Systems	214-341-5486	214-343-7496	<a href="mailto:bruceh@handgsystems.com">bruceh@handgsystems.com</a>
Jim Gerken	Ashcraft	214-361-6611		<a href="mailto:jim@ashcraftcompany.com">jim@ashcraftcompany.com</a>
Don Holt	STC Engineering	214-557-7689		<a href="mailto:Don.holt@stc-engineers.com">Don.holt@stc-engineers.com</a>
Steve Cash	Tindall Mechanical	972-291-1724	972-291-0539	<a href="mailto:Steve_tmi@sbcglobal.net">Steve_tmi@sbcglobal.net</a>
Doug Swaim	Swaim Construction	214-912-8852		<a href="mailto:Evan.rausch@hotmail.com">Evan.rausch@hotmail.com</a>
Alan Uptergrove	J.R. Sheldon Co.	940-368-5793		<a href="mailto:jrsheldoncompany@aol.com">jrsheldoncompany@aol.com</a>
Jack Burk	Weldon Contractors	817-460-1111	817-460-3111	<a href="mailto:jburk@weldon-contractors.com">jburk@weldon-contractors.com</a>
Norm Hamilton	Honeywell	469-371-3660		<a href="mailto:Norm.hamilton@honeywell.com">Norm.hamilton@honeywell.com</a>
Mark Mikts	AMS	972-957-3228	972-701-0479	<a href="mailto:mmikts@amsofusa.com">mmikts@amsofusa.com</a>
Chase Dustin	Berger Engr	214-358-4451	214-352-8794	<a href="mailto:cdustin@berger-engr.com">cdustin@berger-engr.com</a>

Mark Hale	RTS Enterprises	903-271-1635	903-813-1209	<a href="mailto:mark@rtsenterprises.net">mark@rtsenterprises.net</a>
Rick Cook	Ricochet Inc,	214-500-2726		<a href="mailto:rickcook@ricochetusa.com">rickcook@ricochetusa.com</a>
Brian Miller	Carrier	469-442-8885		<a href="mailto:Brian.t.miller@carrier.utc.com">Brian.t.miller@carrier.utc.com</a>
Jeff Weaver	Brandt	214-587-4963		<a href="mailto:jweaver@brandteng.com">jweaver@brandteng.com</a>
Greg Foster	Freer Mechanical	817-335-2101	817-335-2100	<a href="mailto:gfoster@freermechanical.com">gfoster@freermechanical.com</a>
George Buckmaster	Johnson Controls	972-953-5396	817-870-1902	<a href="mailto:george.l.buckmaster@jci.com">george.l.buckmaster@jci.com</a>
David Flickinger	Johnson Controls	214-878-3478	972-869-9412	<a href="mailto:David.s.flickinger@jci.com">David.s.flickinger@jci.com</a>
Gary Vance	Federal Mechanical	972-484-7600	972-484-6116	<a href="mailto:Fms2410@swbell.net">Fms2410@swbell.net</a>
Richard Mitchell	McBride	214-608-4275	972-481-7580	<a href="mailto:rmitchell@mcbrideinc.com">rmitchell@mcbrideinc.com</a>
Lance Johnson	McBride	972-481-7518	972-481-7580	<a href="mailto:ljohnson@mcbrideinc.com">ljohnson@mcbrideinc.com</a>
John Boeye	Collin County	972-548-4649		<a href="mailto:jboeye@co.collin.tx.us">jboeye@co.collin.tx.us</a>
Garret Brown	Summitt Consulting	817-878-4242		<a href="mailto:gsb@summittmep.com">gsb@summittmep.com</a>
Bill Burke	Collin County	972-547-5340		<a href="mailto:bburke@co.collin.tx.us">bburke@co.collin.tx.us</a>
Brad Harris	Collin County	214-205-7322	214-491-4875	<a href="mailto:bjharris@co.collin.tx.us">bjharris@co.collin.tx.us</a>
David Rogers	Collin County	972-547-5369	972-547-5498	<a href="mailto:drogers@co.collin.tx.us">drogers@co.collin.tx.us</a>
Laz Vadasz	Collin County	972-547-5332	972-547-5498	<a href="mailto:lvadasz@co.collin.tx.us">lvadasz@co.collin.tx.us</a>
Michalyn Rains	Collin County	972-548-4114	972-548-4694	<a href="mailto:mrains@co.collin.tx.us">mrains@co.collin.tx.us</a>
Brian Nicodemus	PGAL	972-871-2225	972-871-2228	<a href="mailto:bnicodemus@pgal.com">bnicodemus@pgal.com</a>
Matt Dobecka	Collin County	972-548-4103	972-548-4694	<a href="mailto:mdobecka@co.collin.tx.us">mdobecka@co.collin.tx.us</a>

11/2/2009

Name	Company	Phone	Email
Jeff Robinson	Weldon Contractors	817-460-1111	jrobinson@weldon-contractors.com
Max Young	Ratcliff Constructors	972-432-9969	maxyoung@ratcliffconstructors.com
Steve Hopkins	MIINC, L.P	214-329-0410	SHopkins@miinclp.net
Randy Smith	RTS Enterprises	903-892-9276	randy@rtsenterprises.net
Patrick Snapka	H & G Systems	214-341-5486	pats@handgsystems.com
Steve Mitchell	Mitchell Enterprises, Ltd	903-893-6593	kathyb@mitchellgc.com
Glen Perkins	Texas Electrical Utility Construction	903-893-0949 Ex 119	gperkins@infrastruxtd.com

Address	City/ State	Payment	Ordered	Received	Delivery type
3428 W. Pioneer Pkwy.	Arlington, TX 76013	CC	10/19	10/19	P/U
4200 Beltway	Addison, Tx 75001	Check	10/20	10/20	P/U
1960 W. Northwest Highway, Suite A	Dallas, TX 75220	Check	10/21	10/21	Delivery
PO Box 2705	Sherman, TX 75090		10/21	10/21	P/U
3614 Security St.	Garland, TX 75042	Cash	10/23	10/23	p/U
700 N. Crockett	Sherman, TX 75090	CC	10/27	10/27	Del. UPS
4613 Hwy 1417, N	Sherman, TX 75092	CC	10/28	28-Oct	Del. UPS

## Question and Answers for Bid #09782-09 - COLLIN COUNTY CENTRAL PLANT UPGRADE

### Overall Bid Questions

#### Question 1

Gentlemen – upon review of bid documents for the above referenced project, Technical Specification 05120 Structural Steel Framing, page 05120-2, paragraph 1.4.A.2 requires structural steel fabricator to be AISC Certified, Category STD.

Will you consider a waiver for this requirement? (Submitted: Oct 20, 2009 10:53:05 AM CDT)

#### Answer

- No. We will not waive the requirement for AISC Certification. (Answered: Oct 20, 2009 10:53:29 AM CDT)

#### Question 2

what is the engineers estimate? (Submitted: Oct 20, 2009 2:55:33 PM CDT)

#### Answer

- \$1,600,000.00 (Answered: Oct 20, 2009 3:38:13 PM CDT)

#### Question 3

Can we tour the facility? (Submitted: Oct 21, 2009 12:42:45 PM CDT)

#### Answer

- Tour will be given at the pre-bid on Friday, October 23. No tours will be given until that date and any additional tours will be discussed at the pre-bid. (Answered: Oct 21, 2009 12:43:55 PM CDT)

#### Question 4

Two heat exchangers that relocate to mechanical room will have to be disassembled in order to move. Old gaskets may be damaged or may not seal upon reassembly. Are new gaskets to be provided? If so, will owner provide them to contractor, or is contractor to carry costs of new gaskets? Or should a contingency be carried for this in case the gaskets leak after reassembly and any additional work on these HX will be a change to the contract? Or is there a better way to handle the possibility of the damage to the gaskets or leaking? (Submitted: Oct 26, 2009 8:36:31 AM CDT)

#### Answer

- The base bid price is to include all labor and materials (i.e. gaskets, etc.) required to assure original manufacturer's warranty remains. Owner will provide manufacturer information on current warranty for bidder's use. (Answered: Oct 26, 2009 9:20:23 AM CDT)

#### Question 5

Will the Fire Lane be able to be shut down for the new work to be installed (new Cooling Tower, Piping under drive) (Submitted: Oct 26, 2009 1:25:45 PM CDT)

#### Answer

- Yes, but it will need to be coordinated by the contractor with Facilities and the City of McKinney Fire Marshall. (Answered: Oct 26, 2009 1:37:38 PM CDT)

#### Question 6

When can I view the Central Plant? (Submitted: Oct 27, 2009 8:14:16 AM CDT)

#### Answer

- Central Plant Upgrade Tours

10/28/09 Wednesday 10:00 am

11/3/09 Tuesday 10:00 am

Please meet at the main entrance downstairs. (Answered: Oct 27, 2009 8:18:59 AM CDT)

#### Question 7

Sheet A1.15 Detail 31 lower left corner indicates a solid platform with a traffic coating for the cooling tower platform, however, sheet S.2 detail 1 indicates open framing where the cooling tower sits with a 4' wide walkway around the tower constructed of 1" grating. Please advise which detail is to be applied to this project. (Submitted: Oct 28, 2009 7:28:37 AM CDT)

#### Answer

- Drawing 31/A1.15 revise keyed note 4 to 6. (Answered: Oct 28, 2009 8:36:17 AM CDT)

### Question 8

Sheet S.2 detail 2. Please advise what or where elevation 600' is. It is not at grade nor at the top of the piers. (Submitted: Oct 28, 2009 7:32:39 AM CDT)

### Answer

- The 600'-0" elevation is the finish floor elevation of the Central Plant. This information was acquired from as built documents of the Central Plant, in possession of Collin County. (Answered: Oct 28, 2009 12:26:23 PM CDT)

### Question 9

What should the AIC rating be for the new Distribution Panel DPCH2? (Submitted: Oct 28, 2009 8:48:12 AM CDT)

### Answer

- The fault current rating for Panel DPCH2 should be 65,000 A. (Answered: Oct 29, 2009 8:12:12 AM CDT)

### Question 10

There is not a new concrete pad shown for the new chiller, the existing chiller has one. Will a new concrete pad be required? (Submitted: Oct 28, 2009 12:43:27 PM CDT)

### Answer

- The chiller shall be provided with a reinforced concrete pad 6" thick, 6" larger than chiller footprint. See specification section 15050 for additional requirements. (Answered: Nov 2, 2009 12:02:16 PM CST)

### Question 11

Please provide nameplate data from the two heat exchangers that relocate, including manufacturer, model# and serial#, in order to get gasket pricing in accord with question #4. (Submitted: Oct 28, 2009 1:28:03 PM CDT)

### Answer

- Information to be provided in addendum No. 1. (Answered: Oct 29, 2009 8:30:17 AM CDT)

### Question 12

Can i get a plan holders list from you? (Submitted: Oct 28, 2009 2:17:41 PM CDT)

### Answer

- You may email me your request. It will also be provided in Addendum No.1 (Answered: Oct 28, 2009 2:54:24 PM CDT)

### Question 13

15075 2.1.A calls for "any existing unpainted piping to be painted as part of this project". There is a lot of unpainted piping in the mechanical room. Is this statement truly applicable to this project or are we to paint only the new piping we install?

Please provide the master color chart. (Submitted: Oct 28, 2009 3:05:24 PM CDT)

### Answer

- Will be answered as a clarification in addendum No. 1. (Answered: Oct 29, 2009 8:14:35 AM CDT)

### Question 14

There is no stand alone VFD spec that I can find. Do the ABB and Yaskawa Reps already know the product specifications desired for this application? Do we use the VFD spec found in 15625 2.9 for the specs for the pump VFDs? (Submitted: Oct 29, 2009 8:31:54 AM CDT)

### Answer

- The product specific requirements for the VFDS are included in the notes on the VFD schedule sheet M2.0. Otherwise ABB and Yaskawa meet all requirements. (Answered: Oct 29, 2009 2:10:14 PM CDT)

### Question 15

How much time should we allow for Architect, Engineer, and owner review of submittals and return to contractor? Will submittals be allowed to be submitted and reviewed in segments or just one big all inclusive submittal package. (Submitted: Oct 29, 2009 8:38:29 AM CDT)

### Answer

- How much time should we allow for Architect, Engineer, and owner review of submittals and return to contractor?

Response: Please find this information in specifications section 01300.

Will submittals be allowed to be submitted and reviewed in segments or just one big all inclusive submittal package.

Response: Each specification section and it's related scope of work have specific submittal requirements. For instance, the handrail submittals must show attachment methods specific to the steel platform and must reflect what has been submitted and approved in the steel submittals. I would suggest that if the individual specifications sections do not have specific submittal requirements, that each submittal be grouped in a manner that best fits project schedule. (Answered: Oct 29, 2009 10:26:25 AM CDT)

### Question 16

section 01500 1.02.A - will Collin County allow the contractor to use electrical power available from the outlets inside the mechanical room and use the water available from the hose bibs inside the mechanical room? (Submitted: Oct 29, 2009 10:50:17 AM CDT)

### Answer

- Collin County will allow use of existing electrical and water with no charge to the contractor. Any additional requirements for power or water will be the responsibility of the contractor. (Answered: Nov 2, 2009 1:38:15 PM CST)

### Question 17

Symbol note #16 on sheet E2.01 says to provide two 20A, 120V circuits from Panel DPCH2-20 & 22. Panel DPCH2 is 480/277 only. What is the nearest location of an existing 208/120 panel that these circuits may be derived from? (Submitted: Oct 29, 2009 11:31:27 AM CDT)

### Answer

- Note 16 on Drawing E2-01 should be modified to read "Provide two 20A, 277V circuits from Panel DPCH2-20 & 22 to serve heat tracing..." (Answered: Nov 2, 2009 10:13:30 AM CST)

### Question 18

Will the owner provide to the contractor the drawings in autocad format for preparation of shop drawings, per 15181 1.5.B? (Submitted: Oct 29, 2009 12:54:58 PM CDT)

### Answer

- Yes, with disclaimers (Answered: Nov 2, 2009 10:13:30 AM CST)

### Question 19

Note 3 on sheet E3.01 states that the CH-1 ATS is to remain. Is the foot print of the new substation assumed to be short enough not to require the relocation of the CH-1 ATS? (Submitted: Oct 29, 2009 1:15:11 PM CDT)

### Answer

- To be addressed in addendum No. 1 (Answered: Nov 2, 2009 1:16:07 PM CST)

 Print

 Close

# ITT Bell & Gossett GPX Specification

*Sub/PD*

QUOTATION NO.: 114234

November 7, 2006

Item No.: 1

CUSTOMER:

PROJECT:

COMMENTS:

**PHE-Type: P86-424-TL**

		Hot side	Cold side	
Flowrate	(g.p.m.)	1071.77	1000.00	
Inlet temperature	(°F)	58.00	42.00	
Outlet temperature	(°F)	44.00	57.00	
Pressure drop	(PSI)	7.86	6.95	
Heat exchanged	(Btu/h)	7526368		

625T each

**Thermodynamic properties:**

		Water	Water	
Density	(Lb/Ft <sup>3</sup> )	62.36	62.37	
Specific heat	(Btu/Lb*F)	1.00	1.00	
Thermal conductivity	(Btu/h*Ft*F)	0.34	0.34	
Mean viscosity	(cP)	1.30	1.33	
Wall viscosity	(cP)	1.33	1.30	
LMTD	(°F)		1.4	
Excess surface	%		0.0	
Inlet branch		F1	F3	
Outlet branch		F4	F2	

**Design of Frame / Plates:**

Plate arrangement (passes*channel)		1	x	212
Plate arrangement (passes*channel)		1	x	211
Number of plates		424		
Effective heat surface	(Ft <sup>2</sup> )	4,088.20		
Overall K-value Duty/Clean	(Btu/Ft <sup>2</sup> *h*F)	1,276.06		1,276.06
Plate material		0.4 mm AISI 304		
Gasket material		NITRILE LOCK (S)		
Max.gasket/ working temp.	(°F)	257.00		
Working/test pressure	(PSI)	150.00		195.00
Approval		ASME code		
Liquid volume	(Ft <sup>3</sup> )	40.32		
Carry Bar Length	(Ft)	9.84		Max. No. of Plates 486
Net weight	(Lb)	6339		
Frame type		IS		
Connections HOT side :	6 inch Unlined studed port, 150# ANSI			
Connections COLD side:	6 inch Unlined studed port, 150# ANSI			

**NOTES:**

1. Non-ARI design

ITT Bell & Gossett  
Tel: 800-447-7700

175 Standard Parkway

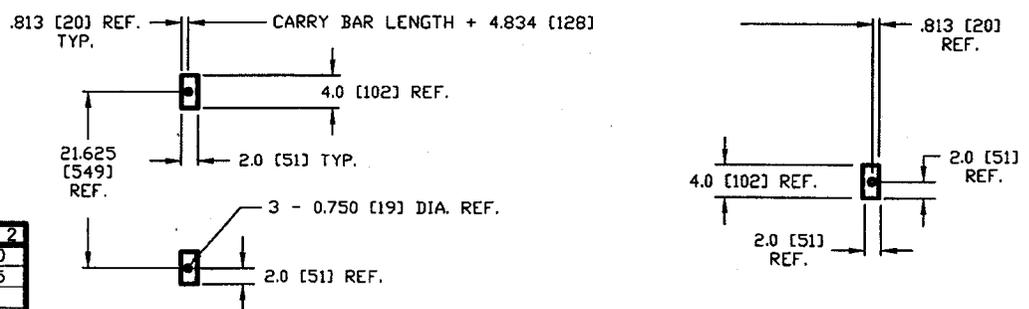
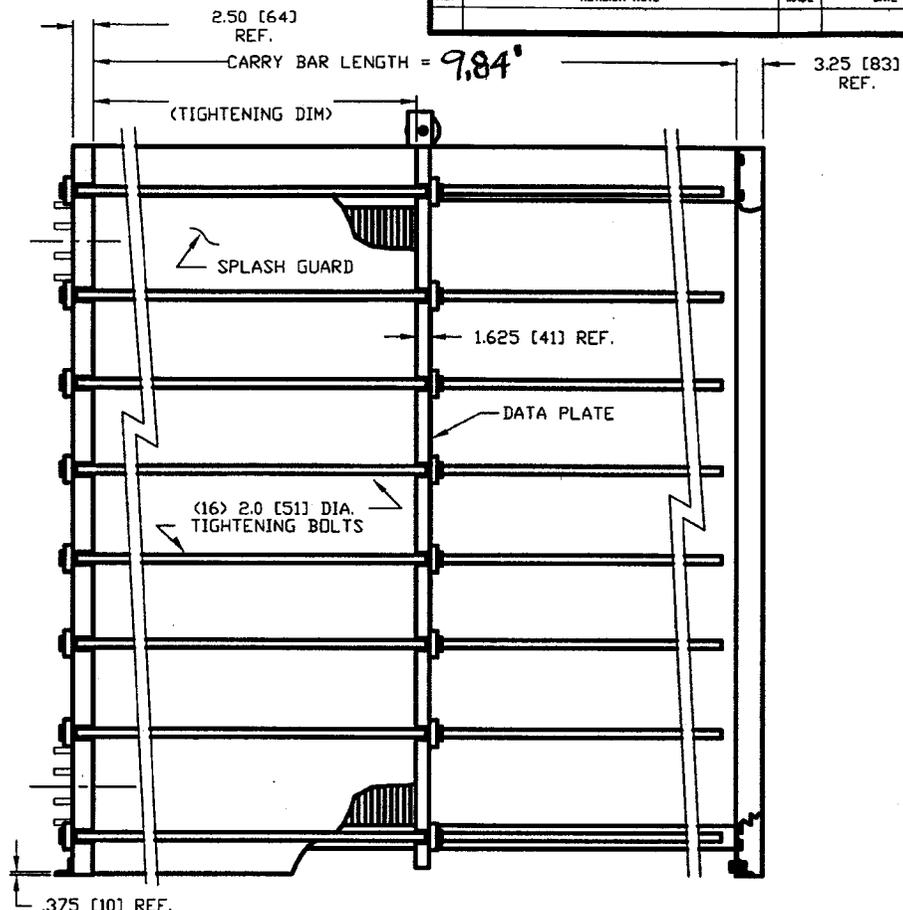
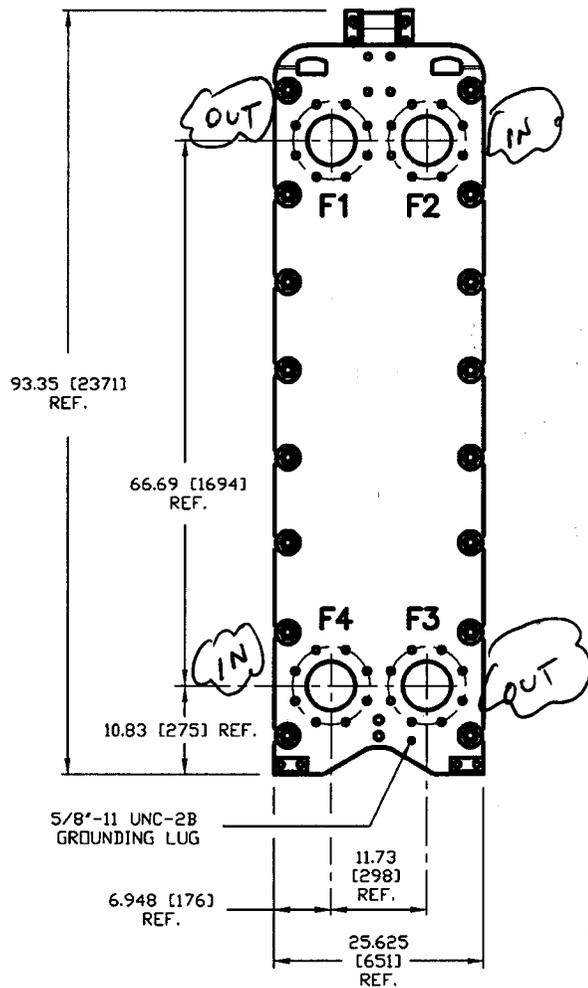
Cheektowaga, NY 14227  
Fax: 716-862-4176

SHIP O SHIP D

FACTORY ORDER NO. CONTRACT

NOTE 1. DIMENSIONS IN INCHES AND [mm].  
 2. CLEARANCE TO REMOVE TIGHTENING BOLTS =  
 3. DIMENSIONS ARE SUBJECT TO CHANGE. IF DIMENSIONS ARE NEEDED FOR LAYOUT, REQUEST CERTIFIED PRINTS.

REV	REVISION NOTE	MADE	DATE
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UNIT CONSTRUCTION		DESIGN CONDITIONS		SIDE 1	SIDE 2
THERMAL PLATES		DESIGN PRESS. (PSI)	150	150	
GASKET TYPE		TEST PRESS. (PSI)	195	195	
PLATE MIXTURE		DESIGN TEMP. (°F)			
MIX (SIDE 1)		MIN. TEMP. (°F)			
MIX (SIDE 2)					
PLATE QTY.		CONNECTIONS			
CARRY BAR		PORT	LOCATION	TYPE AND DESCRIPTION	
TIGHTENING BOLTS	ZINC PLATED	SIDE 1 (OUT)	F1	STEEL UNLINED, FOR 6"-150# ANSI FLANGE.	
SPLASH GUARD	ALUMINUM	SIDE 1 (IN)	F4	STEEL UNLINED, FOR 6"-150# ANSI FLANGE.	
WEIGHT DRY/FULL		SIDE 2 (OUT)	F3	STEEL UNLINED, FOR 6"-150# ANSI FLANGE.	
		SIDE 2 (IN)	F2	STEEL UNLINED, FOR 6"-150# ANSI FLANGE.	

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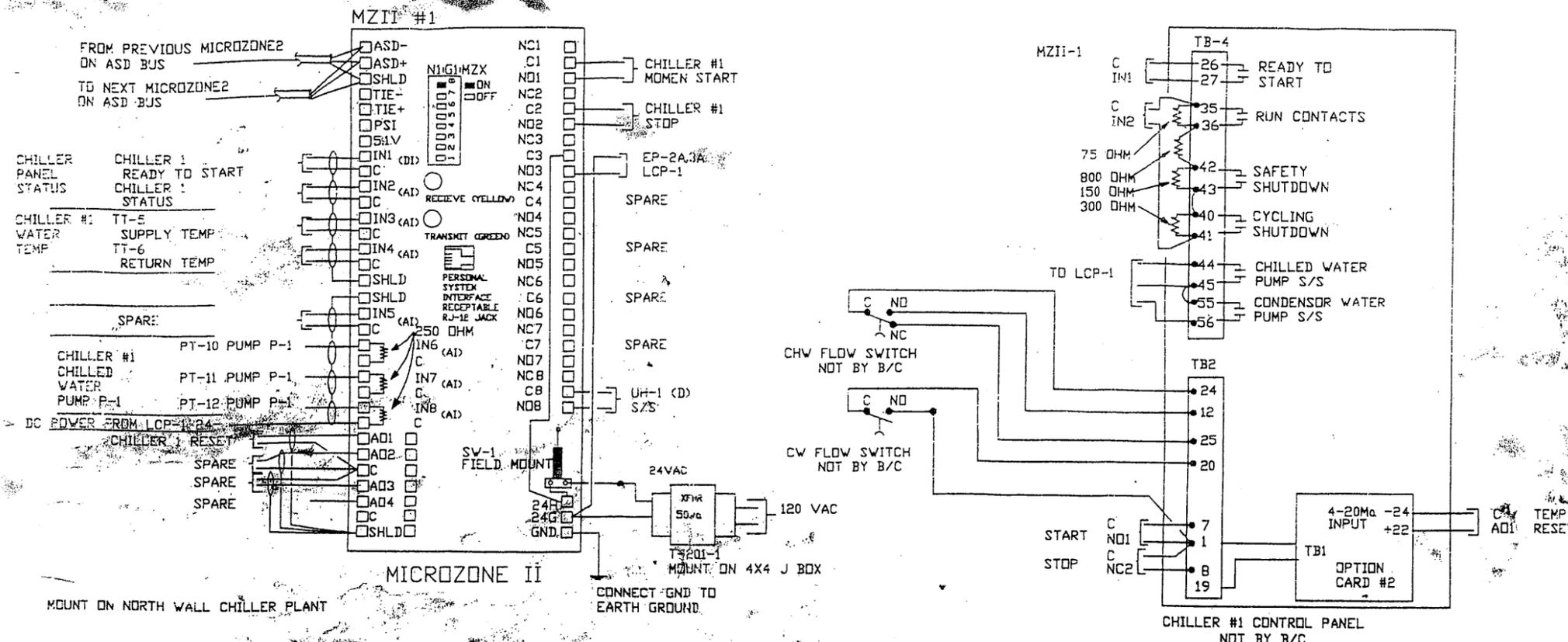
**ITT BELL & GOSSETT**  
 Buffalo, NY U.S.A.

TITLE: **PLATE & FRAME - P86**

SIZE: **C**

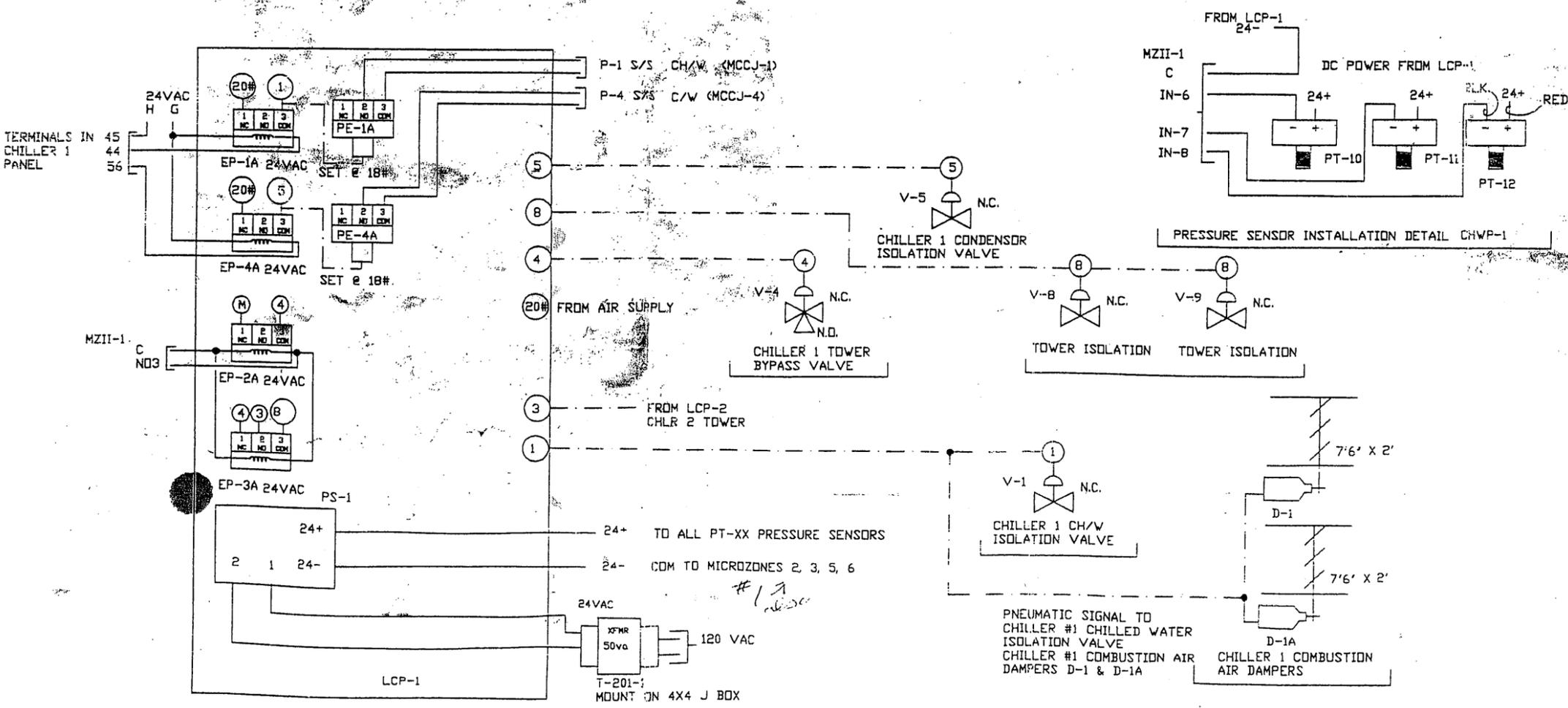
REV: **1**

Type	Series	Equipment-	ID	Function	Device	Label	Detail Wiring	Sheet No.	TB +	XL100 Term	TB -	XL100 Term
UO-1		Chiller-	1	Temperature Reset	RST-1		16	25	D	37	C	55
UO-2		Chiller-	1	Momentary Start	DO-1		16	25	D	38	C	55
UO-3		Chiller-	1	Momentary Stop	DO-2		16	25	D	39	C	55
UO-4		Chiller-	2	Temperature Reset	RST-2		16	25	D	40	C	55
UO-5		Chiller-	2	Momentary Start	DO-3		16	25	D	41	C	55
UO-6		Chiller-	2	Momentary Stop	DO-4		16	25	D	42	C	55
UO-7												
UO-8												
UO-9		Chiller-	1	CW Bypass Valve	TCV-2		17	26	D	45	C	55
UO-10		Chiller-	2	CW Bypass Valve	TCV-3		17	26	D	46	C	55
UO-11		Absorption Chillers Room		Ventilation/Combustion Damper Control	DO-17		17	26	D	47	C	55
UO-12												
DI-1		Chiller-	1	Ready to Start	DI-1		16	25	F	13	E	66
DI-2		Chiller-	2	Ready to Start	DI-2		16	25	F	14	E	66
DI-3		Absorption Chillers Room		Damper Monitor	ES-1		17	26	F	15	E	66
DI-4		Centrifugal Chillers Room		Damper Monitor	ES-2		17	26	F	16	E	66
DI-5		Primary CHW Loop		West Changeover Valve Open Status	DI-3		18	27	F	17	E	66
DI-6		Primary CHW Loop		West Changeover Valve Closed Status	DI-4		18	27	F	18	E	66
DI-7		Primary CHW Loop		East Changeover Valve Open Status	DI-5		18	27	F	49	E	66
DI-8		Primary CHW Loop		East Changeover Valve Closed Status	DI-6		18	27	F	50	E	66
DI-9												
DI-10												
DI-11												
DI-12												
UI-1		PCHWP-	P1	Strainer Inlet Pressure	PET-1		8	21	B	1	A	56
UI-2		PCHWP-	P1	Suction Pressure	PET-2		8	21	B	2	A	56
UI-3		PCHWP-	P1	Discharge Pressure	PET-3		8	21	B	3	A	56
UI-4		PCHWP-	P2	Strainer Inlet Pressure	PET-4		8	21	B	4	A	56
UI-5		PCHWP-	P2	Suction Pressure	PET-5		8	21	B	5	A	56
UI-6		PCHWP-	P2	Discharge Pressure	PET-6		8	21	B	6	A	56
UI-7		Chiller-	1	Evaporator Inlet Temperature	TE-1		1	20	B	7	A	56
UI-8		Chiller-	1	Evaporator Outlet Temperature	TE-2		1	20	B	8	A	56
UI-9		Chiller-	2	Evaporator Inlet Temperature	TE-3		1	20	B	9	A	56
UI-10		Chiller-	2	Evaporator Outlet Temperature	TE-4		1	20	B	10	A	56
UI-11		Chiller-	1	Machine Status	UI-1		16	25	B	11	A	56
UI-12		Chiller-	2	Machine Status	UI-2		16	25	B	12	A	56



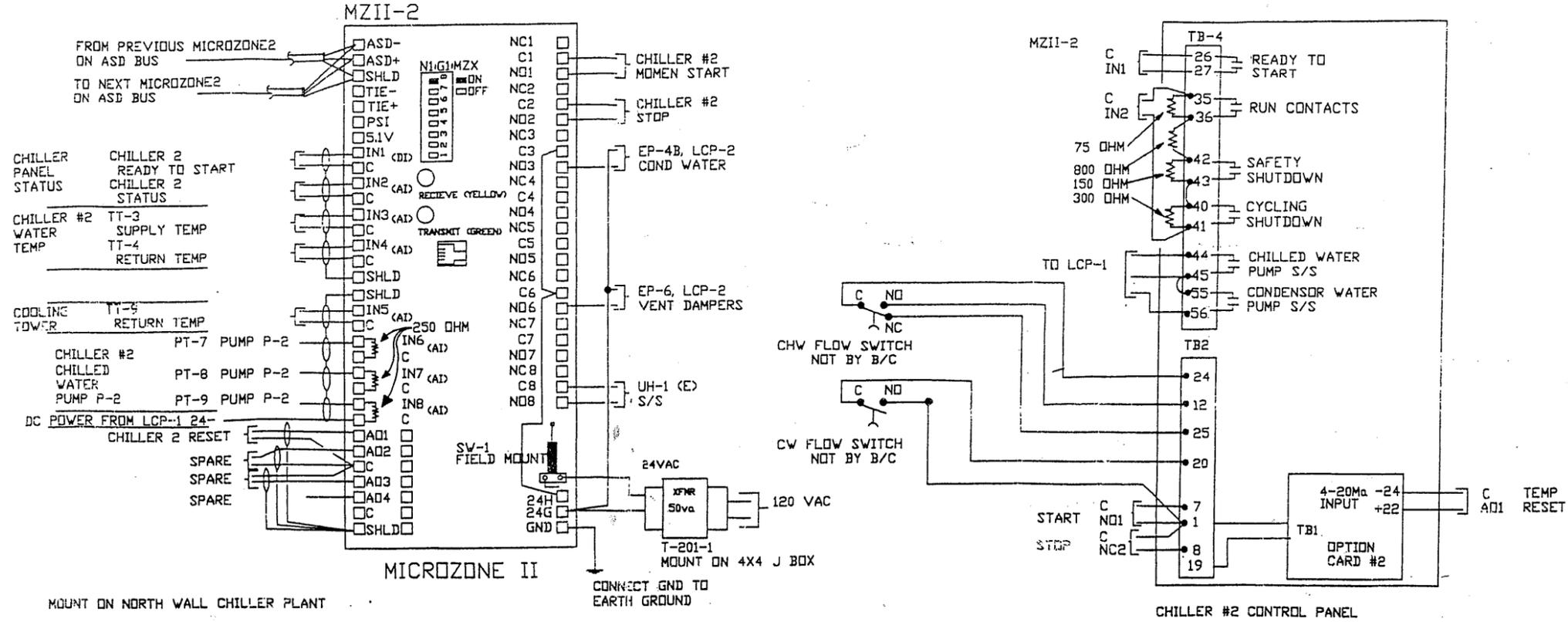
CHILLER-PLANT EMSC PARTS

SYM	QTY	PART #	DESCRIPTION
MZII	1	MZ2-1E	MICROZONE II CONTROLLER
XFMR	2	T-201-1	TRANSFORMER 50 VA
SW	1	683-0086	SPST SWITCH
LCP	1	AE-690	CONTROL PANEL
EP	4	EP-L2,3,4	24 VAC SOLENOID VALVE
PS	2	WPE-3001	PRESSURE SWITCH
PS	1	ACI/PS 1.5	DC POWER SUPPLY



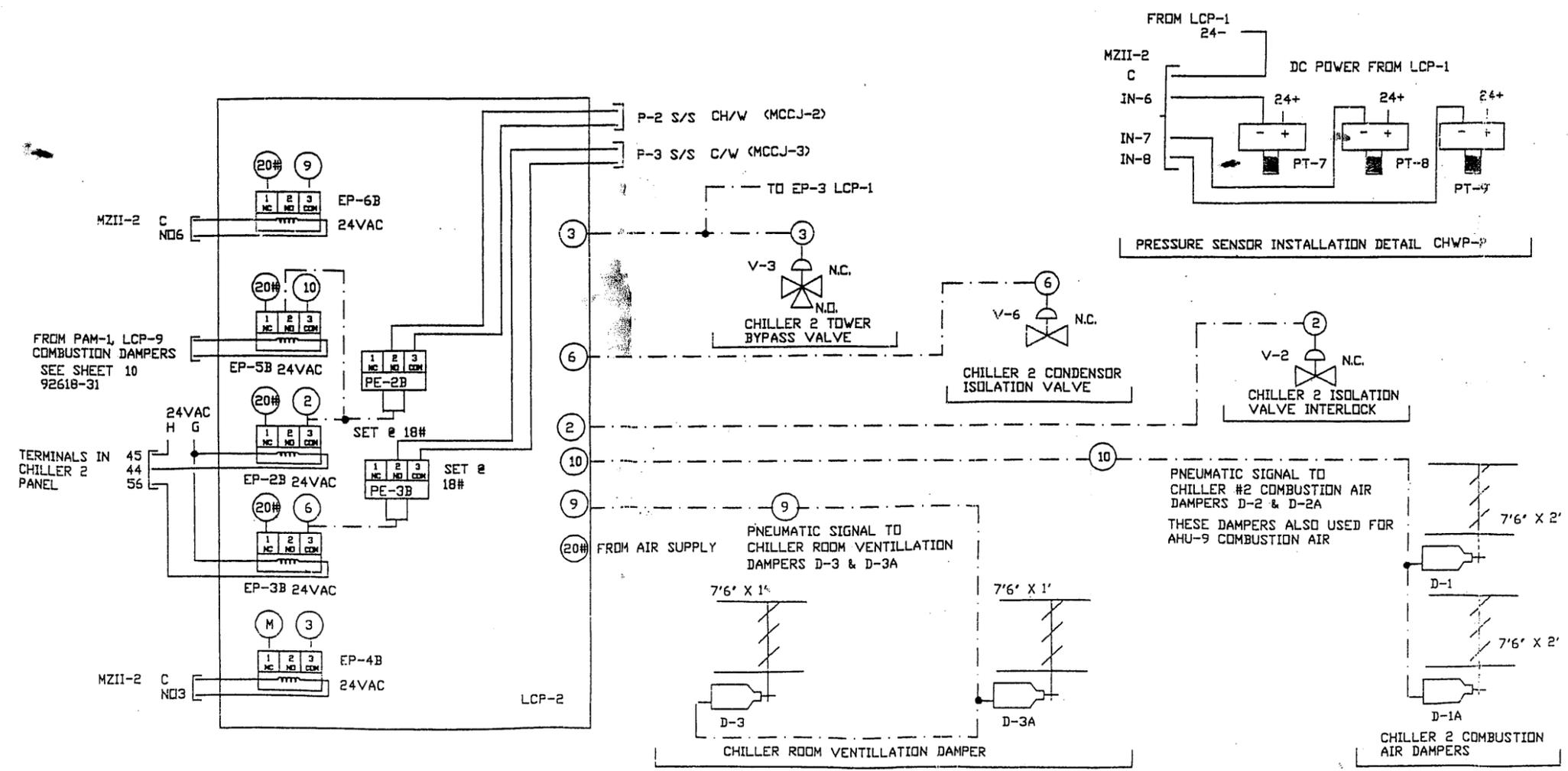
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		CENTRAL PLANT AUTOMATION	
		CHILLER #1	
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REVISIONS		LOCATION: MC KINNEY, TEXAS	
DATE   CHANGES		ARCHITECT: HENNINGSON, DURHAM & RICHARDSON INC	
		ENGINEER: KENNETH E. GILL P.E.	
		CONTRACTOR: TRINITY CONTRACTORS	
CHECKED BY: RGM		DRAWING NO.   965-92618-24 DAL92-50127	
DRAWN BY: RGM		DATE: 04-07-93	
ENG. BY: RGM		ACAD 92618-C3 SHEET 5	



CHILLER PLANT EMSC PARTS

SYM	QTY	PART #	DESCRIPTION
MZII	1	MZ2-1E	MICROZONE II CONTROLLER
XFMR-1	2	T-201-1	TRANSFORMER 50 VA
SW-1	1	683-0086	SPST SWITCH
LCP-2	1	AE-690	CONTROL PANEL
EP-2,3,4,5,6	5	AL-170	24 VAC SOLENOID VALVE
PE-2,3	2	WPE-3001	PRESSURE SWITCH



# PROJECT RECORD

		CENTRAL PLANT AUTOMATION	
		CHILLER #2	
DALLAS, TEXAS 214-241-1861		JOB NAME: COLLIN COUNTY JUSTICE CENTER	
REVISIONS		LOCATION: Mc KINNEY, TEXAS	
DATE CHANGES		ARCHITECT: HENNINGSON, DURHAM & RICHARDSON INC.	
		ENGINEER: KENNETH E. GILL P.E.	
		CONTRACTOR: TRINITY CONTRACTORS	
CHECKED BY: RGM		DRAWING NO.: 965-92618-24 DAL92-50127	
DRAWN BY: RGM		DATE: 04-07-93	
ENG. BY: RGM		ACAD 92618-C4 SHEET 6	