



CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

Bill White
Mayor

Calvin D. Wells, Deputy Director
City Purchasing Agent
P.O. Box 1562
Houston, Texas 77251-1562

F. 832.393.8755
<https://purchasing.houstontx.gov>

September 1, 2009

SUBJECT: Letter of Clarification No.4 / Addendum 2
HVAC Installation at Fire Station No. 20 for the General Services
Departments

REFERENCE: Invitation to Bid No.: S50-C23357

TO: All Prospective Respondents

This Letter of Clarification is issued for the following reasons:

- **Notice to Bidder:**

The bid due date has changed from September 3, 2009 to September 10, 2009, 10:30 AM.

- **To also add the additional drawings as follows:**

1. Reference Pages 219 of 233 through Page 223 of 233; add Sketches No. 1 & 2 to Drawing No. M2.01, Sketches Nos. 3 & 4 to Drawing No. M2.02, and Sketch No. 5 to Drawing No. M3.02 marked Revised – September 1, 2009.

When issued, Letter(s) of Clarification shall automatically become a part of the solicitation documents and shall supersede any previous specification(s) and/or provision(s) in conflict with the Letter(s) of Clarification. It is the responsibility of the respondent to ensure that it has obtained all such letter(s). By submitting a bid on this project, respondents shall be deemed to have received all Letter(s) of Clarification and to have incorporated them into this bid.

If you have any questions or if further clarification is needed regarding this solicitation, please contact me.

Sincerely,

Arturo Lopez

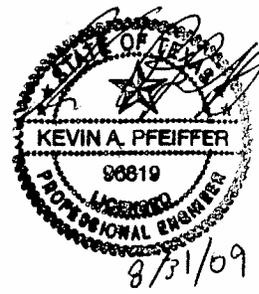
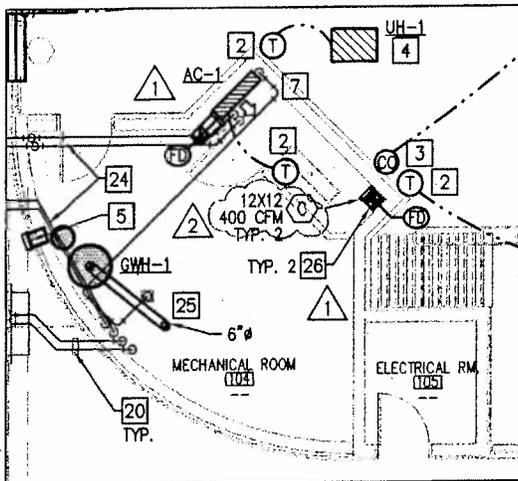
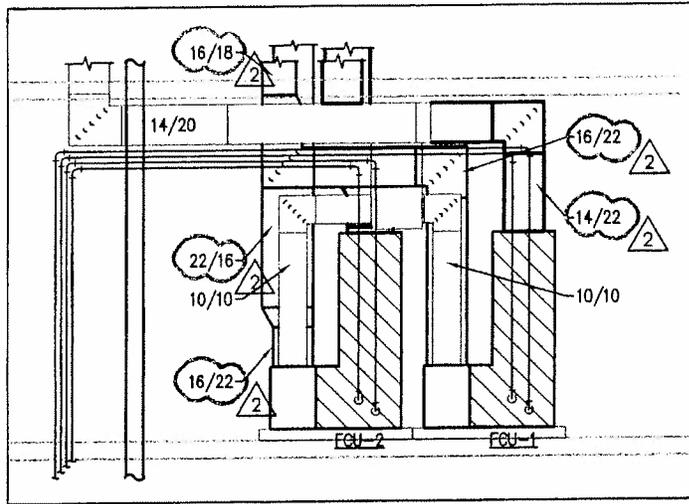
Arturo Lopez
Senior Procurement Specialist
City of Houston, Strategic Purchasing Division
832-393-8731

Attachments: Drawing Pages 219 through 223 of 233

Page 1 of 6

Partnering to better serve Houston

**LETTER OF CLARIFICATION 4
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**



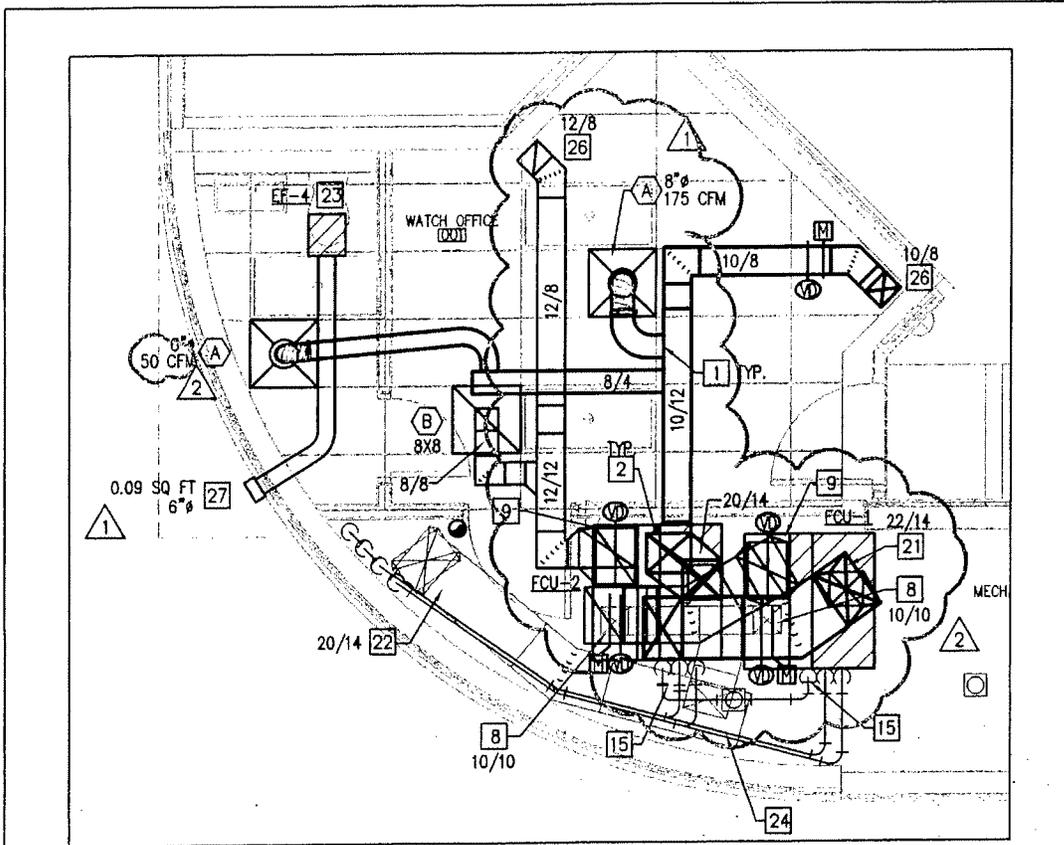
UHR Engineering Consultants, Inc.
TQPE Firm Registration No. 2234



SHEET: M2.01
PROJECT : FIRE STATION 20
ADDRESS : 6902 NAVIGATION BLVD
HOUSTON, TEXAS 77011
ADDENDUM NO. 02 ²
DATE: AUGUST 31, 2009


CITY OF HOUSTON
BUILDING SERVICES
DEPARTMENT
SKETCH NO: 1

**LETTER OF CLARIFICATION 4
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**



STATE OF TEXAS
 KEVIN A. PFEIFFER
 96819
 LICENSED PROFESSIONAL ENGINEER
 8/31/09
 GBR Engineering Consultants, Inc.
 TSPPE Firm Registration No. 2234

NATEX
 CORPORATION
 ARCHITECTS
 3508 WILLOWBERRY BLVD 308
 HOUSTON, TEXAS 77048
 TELEPHONE: 713-978-8528
 FAX: 713-788-7824

SHEET: M2.01

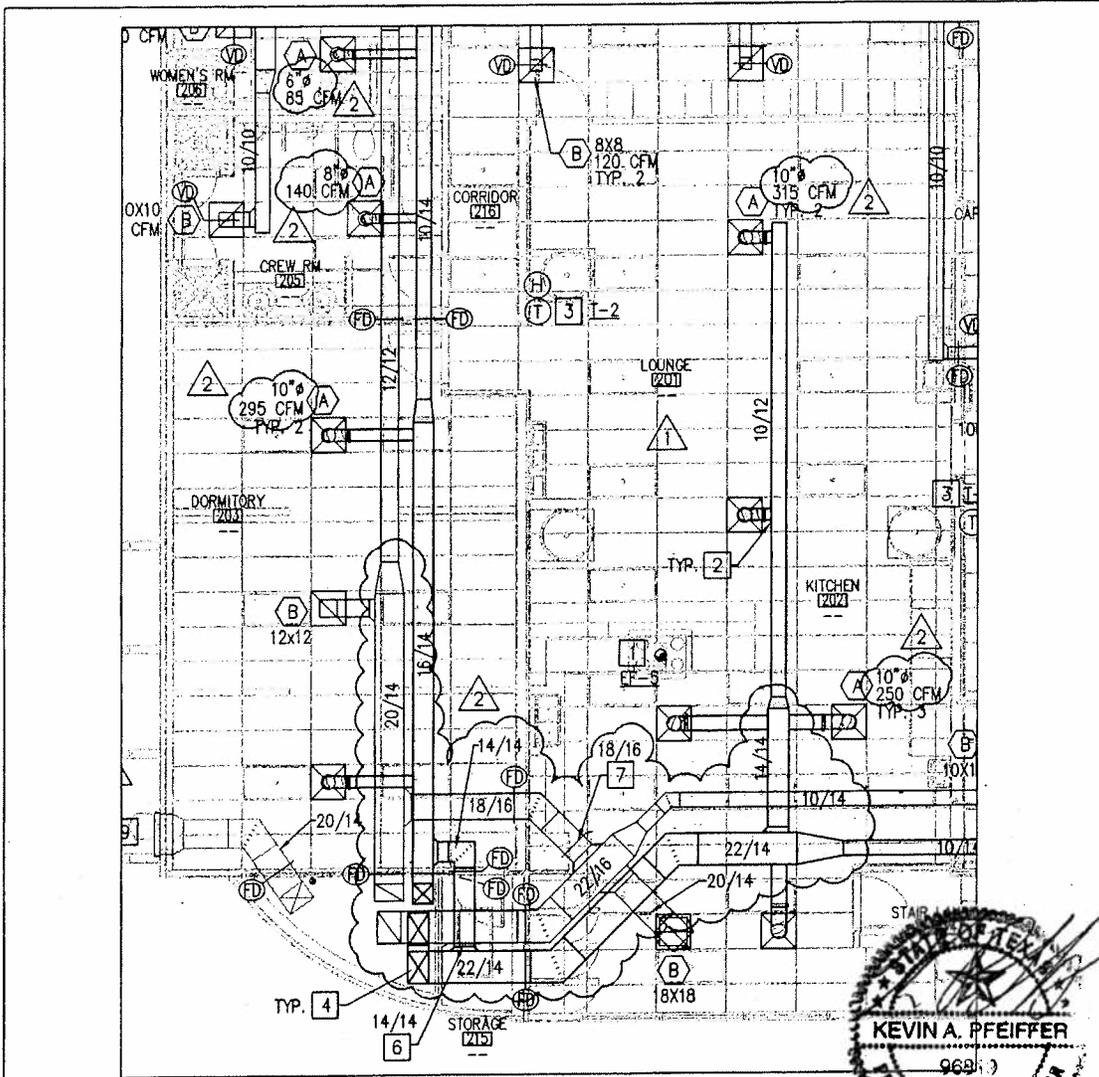
PROJECT: FIRE STATION 20
 ADDRESS: 6902 NAVIGATION BLVD
 HOUSTON, TEXAS 77011

ADDENDUM NO. 02 ²
 DATE: AUGUST 31, 2009

CITY OF HOUSTON
 BUILDING SERVICES
 DEPARTMENT

SKETCH NO: 2

**LETTER OF CLARIFICATION 4
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**

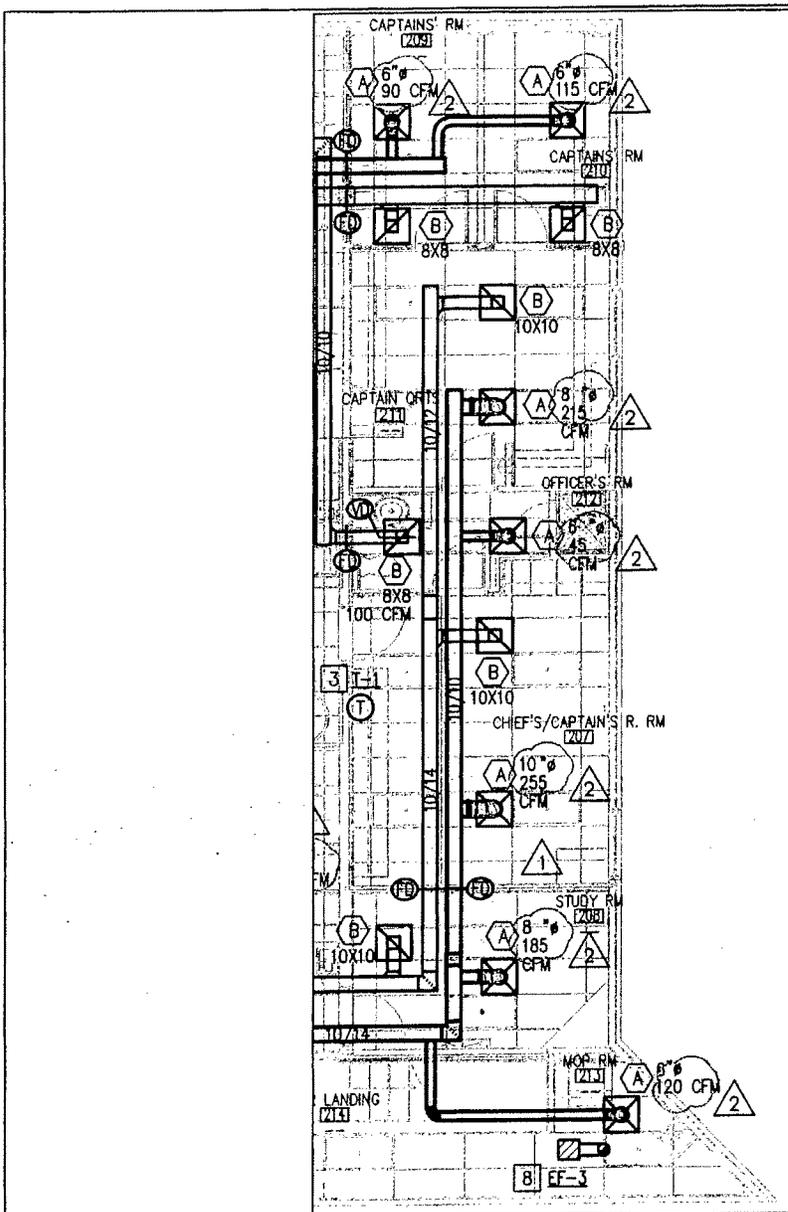


KEVIN A. PFEIFFER
96913
PROFESSIONAL ENGINEER
STATE OF TEXAS

DBR Engineering Consultants, Inc.
TSPE Firm Registration No. 2284
8/31/09

 NATEX CORPORATION ARCHITECTS <small>2800 WILCREST, SUITE 300 HOUSTON, TEXAS 77042 TELEPHONE: 713-879-8533 FAX: 713-780-7524</small>	SHEET: M2.02	 CITY OF HOUSTON BUILDING SERVICES DEPARTMENT
	PROJECT : FIRE STATION 20 ADDRESS : 6902 NAVIGATION BLVD HOUSTON, TEXAS 77011	

**LETTER OF CLARIFICATION 4
 HVAC INSTALLATION AT FIRE STATION NO. 20
 SOLICITATION NO. S50-C23357**



DBR Engineering Consultants, Inc.
 TSP# Firm Registration No. 2284

**NATEX
 CORPORATION
 ARCHITECTS**
 2800 WILSON, SUITE 200
 HOUSTON, TEXAS 77046
 TELEPHONE: 713-978-6633
 FAX: 713-780-7634

SHEET: M2.02

PROJECT : FIRE STATION 20
 ADDRESS : 6902 NAVIGATION BLVD
 HOUSTON, TEXAS 77011

ADDENDUM NO. 02 2
 DATE: AUGUST 31, 2009

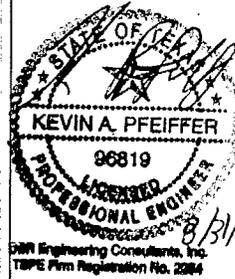
CITY OF HOUSTON
 BUILDING SERVICES
 DEPARTMENT

SKETCH NO: 4

**LETTER OF CLARIFICATION 4
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**

DX SPLIT SYSTEM SCHEDULE					
INDOOR UNIT	GENERAL	MARK	FCU-1	FCU-2	2
		SERVES	PLAN	PLAN	
		SUPPLY AIR (CFM)	2,200	1,900	
		OUTSIDE AIR (CFM)	425	450	
		EXT. SP. (IN W.G.)	1.5	1.5	
		FAN MOTOR HORSEPOWER	1-1/2	1-1/2	
	BELT/DIRECT DRIVE	BELT	BELT		
	COOLING	TOTAL COOLING (MBH)	89.8	84.9	
		SENSIBLE COOLING (MBH)	61.3	54.8	
		ENTERING AIR TEMP. DB/WB (F)	79.4/66.8	77.6/64.9	
		LEAVING AIR TEMP. DB/WB (F)	55	55	
	HEATING	TOTAL HEATING KW	12	12	
ENTERING AIR TEMP. DB (F)		68.3	64.0		
LEAVING AIR TEMP. DB (F)		85	85		
VOLTS/PHASE/HERTZ		208/3/60	208/3/60		
BASIS	MANUFACTURER	TRANE	TRANE		
	MODEL	BCVC072E2	BCVC072E2		
	WEIGHT (LBS)	277	300		
CONDENSING UNIT	GENERAL	MARK	ACCU-1	ACCU-2	
		STEPS OF CAPACITY	1	1	
		EER	12.5	12.5	
	ELECTRIC	AMBIENT AIR	100	100	
		VOLTS/PHASE/HERTZ	208/3/60	208/3/60	
		MCA	34.4	34.4	
		MOCP	40	40	
		MANUFACTURER	TRANE	TRANE	
		MODEL	2TTA090D3	2TTA090D3	
		NOMINAL TONS	7.5	7.5	
		REFRIGERANT	R-410A	R-410A	
		NOTES	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8	

- NOTES:
1. PROVIDE CONDENSER COIL HAIL GUARDS.
 2. PROVIDE LOW AMBIENT CONTROL.
 3. PROVIDE REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 4. PROVIDE SINGLE POINT ELECTRICAL CONNECTION.
 5. PROVIDE PROGRAMMABLE THERMOSTAT.
 6. UNITS SHALL BE PROVIDED WITH HOT GAS BYPASS.
 7. PROVIDE UNIT WITH MULTIPLE STAGED ELECTRIC HEATING LOCATED IN THE REHEAT POSITION.
 8. PROVIDE UNITS WITH A SINGLE POINT ELECTRICAL CONNECTION.



SHEET: M3.02

PROJECT : FIRE STATION 20
ADDRESS : 6902 NAVIGATION BLVD
HOUSTON, TEXAS 77011

ADDENDUM NO. 02 2
DATE: AUGUST 31, 2009



CITY OF HOUSTON
BUILDING SERVICES
DEPARTMENT

SKETCH NO: 5

Revised – September 1, 2009