



CITY OF HOUSTON

Administration and Regulatory Affairs Department
Strategic Purchasing Division

Bill White
Mayor

Calvin D. Wells, Deputy Director
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August 28, 2009

SUBJECT: Letter of Clarification No. 3 for 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:

• **To revise the drawings as follows:**

1. Drawing, M-2.01
 - Reference Letter of Clarification No. 2, paragraph 9, "Mechanical Keyed Note # 18, Make Up louvers is hereby deleted. However; BACK DRAFT DAMPERS (3) ARE PART OF THIS CONTRACT. See M-3.01 Detail # 10 and M-3.02 Fan Schedule. (See the attached Drawing, M-2.01)
 - EF-# 2, Mechanical Keyed Note # 13 is hereby deleted. Exterior wall louver by others for EF # 2 requires the third back draft damper listed on previous bullet. See M-3.01 Detail # 10 and M-3.02 Fan Schedule. (See the attached Drawing, M-3.01)
2. Drawing, M-2.02
 - Mechanical room fresh air louver only and EF-1 louver only with Mechanical Keyed Note # 9 are hereby deleted. (See the attached Drawing, M-2.02.)
3. Drawing, M-3.02
 - The attached DX SPLIT SYSTEM SCHEDULE replaces system schedule in the drawings, in its entirety. (See the attached Drawing, M-3.02 with Revised DX SPLIT SYSTEM SCHEDULE)

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.

Page 1 of 8

Partnering to better serve Houston

**LETTER OF CLARIFICATION 3
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**

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

Sincerely,

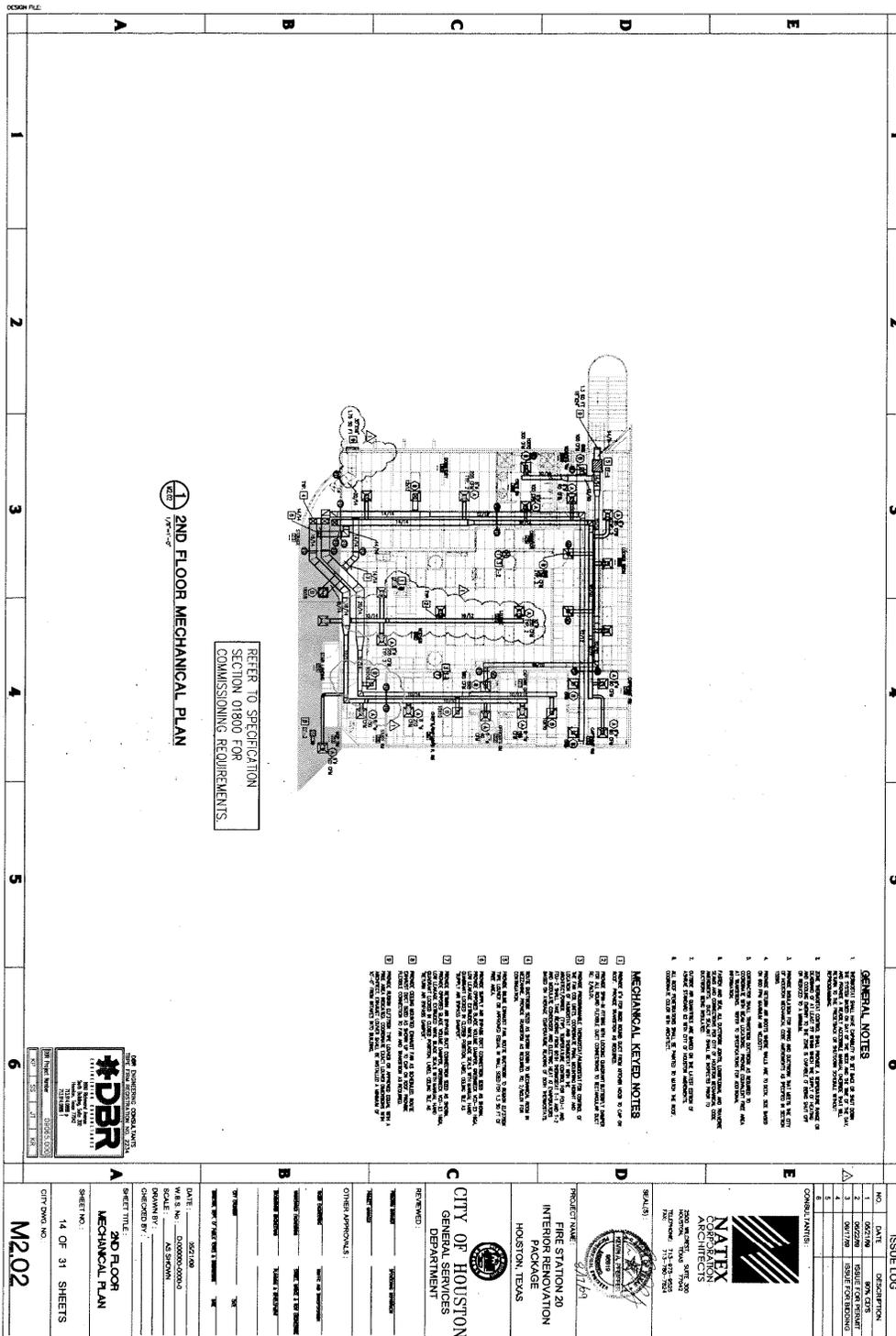
Arturo Lopez

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

**Attached: Drawing, M-2.01, Drawing M-2.02, Drawing M-3.01, Drawing M-3.02 with
Revised DX SPLIT SYSTEM SCHEDULE**

**A PDF version of the Structural Drawings and the Revised DX SPLIT SYSTEM SCHEDULE
FOR Drawing, M-3.01 can also be viewed on the following web Link
<https://purchasing.houstontx.gov/buyer/BidDocumentManager.aspx?id=C23357>**

LETTER OF CLARIFICATION 3
 HVAC INSTALLATION AT FIRE STATION NO. 20
 SOLICITATION NO. S50-C23357



REFER TO SPECIFICATION
 SECTION 01800 FOR
 COMMISSIONING REQUIREMENTS.

2ND FLOOR MECHANICAL PLAN

- MECHANICAL KEYED NOTES**
- A. REFER TO SECTION 01800 FOR COMMISSIONING REQUIREMENTS.
 - B. REFER TO SECTION 01800 FOR COMMISSIONING REQUIREMENTS.
 - C. REFER TO SECTION 01800 FOR COMMISSIONING REQUIREMENTS.
 - D. REFER TO SECTION 01800 FOR COMMISSIONING REQUIREMENTS.
 - E. REFER TO SECTION 01800 FOR COMMISSIONING REQUIREMENTS.



| ISSUE LOG | | |
|-----------|----------|------------------|
| NO. | DATE | DESCRIPTION |
| 1 | 02/27/20 | ISSUE FOR PERMIT |
| 2 | 03/27/20 | ISSUE FOR PERMIT |
| 3 | 04/17/20 | ISSUE FOR PERMIT |
| 4 | | |
| 5 | | |
| 6 | | |



NATIX CORPORATION ARCHITECTS
 1100 WEST 17TH STREET, SUITE 200
 HOUSTON, TEXAS 77058
 TELEPHONE: 713-525-5555
 FAX: 713-525-5555



PROJECT NAME:
 FIRE STATION 20
 INTERIOR RENOVATION
 PACKAGE
 HOUSTON, TEXAS

CITY OF HOUSTON
 GENERAL SERVICES
 DEPARTMENT

REVIEWED: _____
 DATE: _____

OTHER APPROVALS:

 DATE: _____

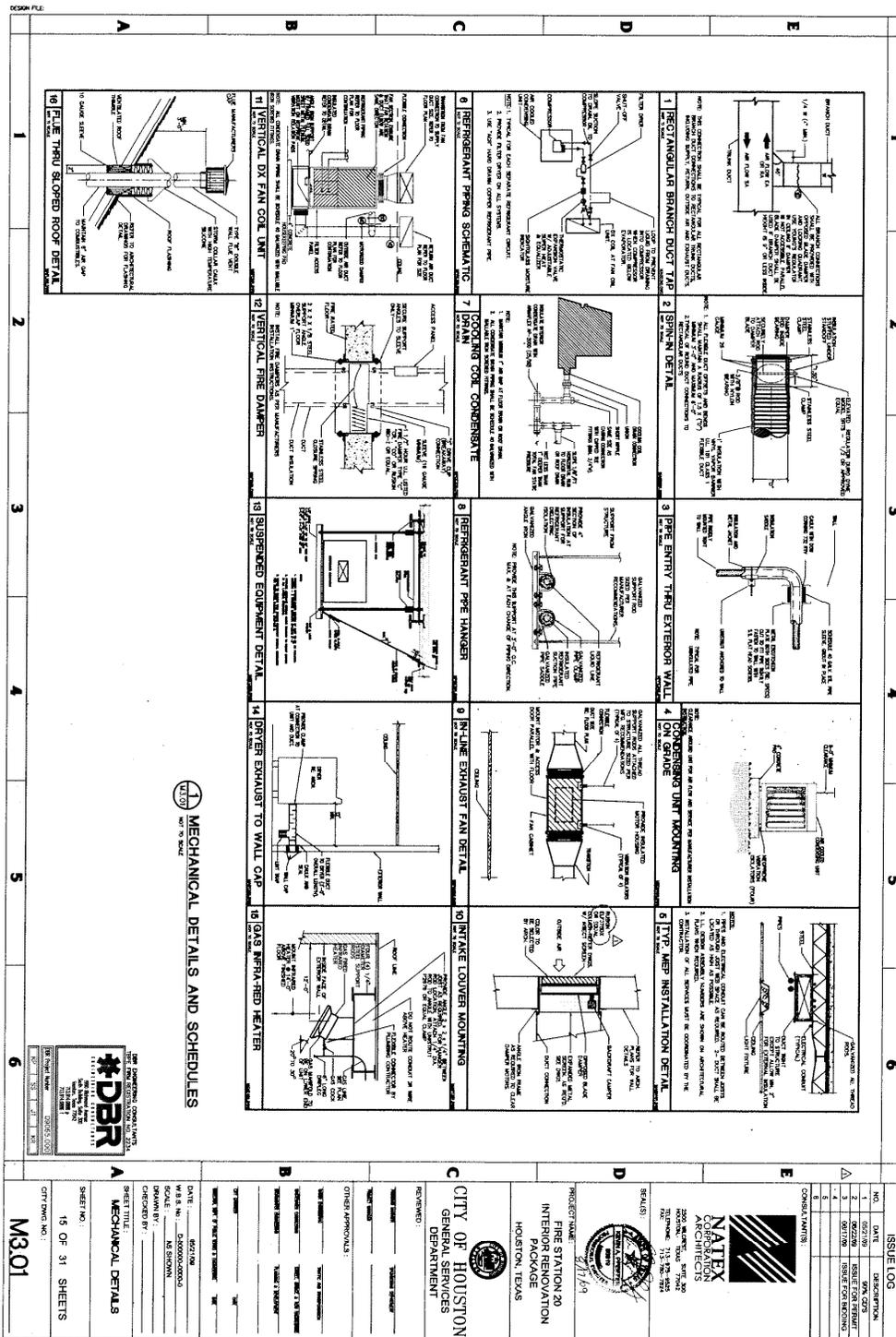
DATE: 02/27/20
 DRAWN BY: _____
 CHECKED BY: _____

SHEET TITLE:
 2ND FLOOR
 MECHANICAL PLAN

SHEET NO.:
 14 OF 31 SHEETS

CITY DWG. NO.:
M2.02

**LETTER OF CLARIFICATION 3
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**



LETTER OF CLARIFICATION 3
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357

| DX SPLIT SYSTEM SCHEDULE | | | | |
|--------------------------|-----------------|------------------------------|-----------------|-----------------|
| INDOOR UNIT | GENERAL | MARK | FCU-1 | FCU-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 | 2 | 2 |
| | | BELT/DIRECT DRIVE | BELT | BELT |
| | COOLING | TOTAL COOLING (MBH) | 66.3 | 67.3 |
| | | SENSIBLE COOLING (MBH) | 51.5 | 50.1 |
| | | ENTERING AIR TEMP. DB/WB (F) | 77.6/64.9 | 79.4/66.6 |
| | | LEAVING AIR TEMP. DB/WB (F) | 55 | 55 |
| | HEATING | TOTAL HEATING kW | 12 | 12 |
| | | ENTERING AIR TEMP. DB (F) | 66.3 | 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) | 265 | 265 |
| | CONDENSING UNIT | GENERAL | MARK | ACCU-1 |
| STEPS OF CAPACITY | | | 1 | 1 |
| EER | | | 12.5 | 12.5 |
| AMBIENT AIR | | | 100 | 100 |
| ELECTRIC | | VOLTS/PHASE/HERTZ | 208/3/60 | 208/3/60 |
| | | MCA | 34.4 | 34.4 |
| | | MOCP | 40 | 40 |
| BASIS | | MANUFACTURER | TRANE | TRANE |
| | | MODEL | 2TTA090D3 | 2TTA090D3 |
| | | NOMINAL TONS | 7.5 | 7.5 |
| | | REFRIGERANT | R-410A | R-410A |
| | | NOTES | 1, 2, 3,4,5,7,8 | 1,2,3,4,5,6,7,8 |

**LETTER OF CLARIFICATION 3
HVAC INSTALLATION AT FIRE STATION NO. 20
SOLICITATION NO. S50-C23357**

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|--|--|--|
| 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. | | |

END OF DOCUMENT