



**DANE COUNTY DEPT. OF  
PUBLIC WORKS, HIGHWAY &  
TRANSPORTATION**

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Office: 608/266-4018 ♦ Fax: 608/267-1533  
Public Works Engineering Division

# ADDENDUM

APRIL 10, 2020

**ATTENTION ALL REQUEST FOR BID (RFB) HOLDERS**

**RFB NO. 318029 - ADDENDUM NO. 1**

**FISH HATCHERY HIGHWAY GARAGE - CNG RETROFIT**

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**BIDS DUE:** TUESDAY, APRIL 21, 2020, 2:00 PM. DUE DATE AND  
TIME ARE NOT CHANGED BY THIS ADDENDUM.

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This Addendum is issued to modify, explain or clarify the original Request for Bid (RFB) and is hereby made a part of the RFB. Please attach this Addendum to the RFB.

**PLEASE MAKE THE FOLLOWING CHANGES:**

**1. Section 23 05 23 – Valves and Piping for Fuel Gas**

Page 1, line 42, ADD:

“COORDINATION WITH GAS UTILITY

This section contractor shall coordinate with Madison Gas and Electric (MG&E) on the changes in the gas service pressure. The present gas pressure to the building, per MG&E, is ¼ pound. MG&E will be revising the pressure to the building to 2 psi. All MG&E charges shall be include as part of the mechanical work.”

Page 2, DELETE lines 11 & 12, SUBSTITUTE the following:

“Line Pressure Regulators to be sized for MBH load as indicated at each plan location with minimum size of ½ inch.

Regulator shall meet ANSI Z21.80 standard/CSA 6.22 Class 1 for 2 psig inlet pressure, outlet pressure up to 14” W.C., inlet and outlet test ports.

Regulator shall non-vented or vent limited for indoor installation with no vent line.

Temperature range -20°F to 150°F.

Maximum emergency inlet exposure pressure of 80 psig.”

Page 2, line 43, ADD:

“Identify gas piping at inlet and outlet of gas pressure regulator with 8 inch section of pipe painted yellow. Label inlet “2 psi gas” and outlet “low pressure gas”.”

**2. Section 23 09 26 – Gas Detection System**

Page 1, line 52, ADD:

“INSTALLING CONTRACTOR

Installing Contractor for section 23 09 26 and 23 09 93 shall be a Control or Electrical Contractor with documented experience in the integration of gas detection systems and ventilation control systems.”

Page 4, line 55, ADD:

“Installing contractor shall be present during the manufacturer’s representative’s installation review, pre-inspection test and the for the fire department test / system demonstration.”

### 3. Section 23 09 93 – Sequence of Operation for HVAC Controls

Page 1, line 38, ADD:

“INSTALLING CONTRACTOR

Installing Contractor for section 23 09 26 and 23 09 93 shall be a Control or Electrical Contractor documented experience in the integration of gas detection systems and ventilation control systems.”

Page 3, line 47, CHANGE:

“EF-116”, to: “EF-16”.

Page 3, line 51, CHANGE:

“gas reaches 0.50%”, to: “gas reaches 0.00%”.

Page 5, line 17, CHANGE:

“3.5% concentration”, to: “3.00% concentration”.

Page 6, line 18, CHANGE:

“gas reaches 0.20%”, to: “gas reaches 0.00%”.

Page 2, line 61, ADD:

“When any CH<sub>4</sub> detector in any of the 3 zones detects a concentration of 3.0 percent or greater the “normal” electrical service shall switch to the new “life safety” and new “standby” panels powered by the generator. Once the gas concentration falls to the level specified in the control sequence to shut down the CH<sub>4</sub> exhaust fans the electrical service shall return to the “normal” electrical service. The HV Contractor shall coordinate this control with the Electrical Contractor. Refer to drawing E501.”

Page 2, line 62, ADD:

“When any CH<sub>4</sub> detector in any of the 3 zones detects a concentration of 3.0 percent or greater the gas solenoid valve in the main gas line to the building shall close. Once the gas concentration falls to the level specified in the control sequence to shut down the CH<sub>4</sub> exhaust fans the gas valve shall open.”

### 4. Drawing PH100 – OVERALL FLOOR PLAN

On the Overall Floor Plan, ADD the following:

Approximate Existing Ceiling Heights:

Phase One:	22 feet, 8 inches to lay in panel ceiling. Upper Ceiling over Electrical Room 13 feet, 0 inches Electrical Room
Phase Two:	22 feet, 8 inches to lay in panel ceiling.
Phase Three:	16 feet, 8 inches to lay in panel ceiling.
Phase Four:	13 feet to bottom of roof deck.

In the Phasing Schedule, Phase One Electrical Room CHANGE TO:

Work scheduled from 4 PM Thursday to **6 AM Monday**.

### 5. Drawings A100, A101, & A102

Revise General Note 1 to:

“See MEP for scope of work, patch to match all existing walls u.n.o. All existing walls are concrete masonry unit walls u.n.o.”

**6. Drawing 1A101 – Main Level Floor Plan (Area B)**

ADD the following note to the Break/Lunch Room West Wall, above Door NPD-4:

“Infill (2) openings with CMU to match existing. Each opening is approx. 32” x 32” V.I.F. Refer to mechanical for ductwork demolition.”

ADD the following note to the East Exterior Wall above the door, North of the Gas Meter:

“Infill approx. 72” wide X 40” high opening, V.I.F. with brick on CMU to match existing exterior wall construction. Refer to mechanical for air intake demolition.”

**7. Drawing H100 – Partial Floor Plan (Area A) HVAC New Work**

At HVAC New Work Notes, Note 5, ADD:

“Contractor shall provide steel angle or channel below the sides of the new curb to span between existing steel joists. Steel shall be fastened to existing steel joist. Size and exact locations to be field determined.”

Plan A-H100 Main Level Floor Plan and Plan B-H100 Gas Piping, ADD:

“At gas pressure regulator with 493.6 MBH capacity pressure regulator shall be sized for 2 PSI to 14” WC. Verify existing size, pipe to be minimum of 1-1/2 inch or existing size if larger. This existing served removed MUA. Pipe serving the MUA-4 and RAD-2 shall be the existing gas line size if 1-1/4 inch or larger. New line to MUA-4 shall be 1 inch and reduced to connect to unit.”

**8. Drawing H101 – Partial Floor Plan (Area B) HVAC New Work**

At HVAC New Work Notes, Note 5, ADD:

“Contractor shall provide steel angle or channel below the sides of the new curb to span between existing steel joists. Steel shall be fastened to existing steel joist. Size and exact locations to be field determined.”

**9. Drawing H102 – Partial Floor Plan (Area C) HVAC New Work**

At HVAC New Work Notes, Note 5, ADD:

“Contractor shall provide steel angle or channel below the sides of the new curb to span between existing steel joists. Steel shall be fastened to existing steel joist. Size and exact locations to be field determined.”

Plan A-H102 Main Level Floor Plan, CHANGE:

At the match line change 3 inch gas to 2-1/2 inch gas.

**10. Drawing H200 – HVAC Details**

Detail B-H200, Gas Meter Down Stream Piping Revisions ADD:

“Piping on exterior shall be painted YELLOW and labeled 2 PSI leaving the meter and at each connection to exterior natural gas equipment.”

**11. Drawing ED100 – Partial Floor Plan (Area A) Electrical Demolition Work, Drawing ED101 – Partial Floor Plan (Area B) Electrical Demolition Work, & Drawing ED102 – Partial Floor Plan (Area C) Electrical Demolition Work**

ADD Specific Note D6 to Sheets to read:

“D6. Disconnect and store existing Paddle Fans (Destratification Fans) prior to existing ceiling removal (see New Work Plans for reinstalling).

- North garage: 10 - 5 on each side.

- South garage: 3 on the west side (2 on the south half, one on the south part of the north half).

- South garage: 2 on the east side, both on the south half
- West (electrical shop) 1 about centered”.

## **12. Drawing E100 – Partial Floor Plan (Area A) Electrical New Work**

ADD **General Notes** to Sheets to read:

- A. See Phasing Sheet for all phasing requirements
- B. See HVAC Specifications and Floor Plans for Equipment Control requirements and sequencing – Coordinate with HVAC and General Contractor for Air Moving Equipment, Overhead Doors, and Lighting control interfacing.

REVISE Specific Note 6A to Sheets to read:

“6A. CONNECT NEW OHD MOTOR TO NEW EMERGENCY CIRCUIT INDICATED  
NOTE: FOR OHD'S, ACQUIRE CONTROLS FROM DOOR SUPPLIER, FOR EC  
INSTALLATION.  
PROVIDE CLASS 1 DIV II PROVISIONS FOR CONNECTION OF LINE VOLTAGE  
WIRING.  
NOTE – COORDINATE CONTROLS WITH HVAC SEQUENCING.”

ADD Specific Note 9 to Sheets to read:

“9. Remount and re-connect existing Paddle Fans (Destratification Fans) that were disconnected and stored during ceiling demolition process (reuse existing controls).  
- North garage: 10 - 5 on each side.  
- South garage: 3 on the west side (2 on the south half, one on the south part of the north half).  
- South garage: 2 on the east side, both on the south half  
- West (electrical shop) 1 about centered”.

ADD Mezzanine Plan similar to that shown on HVAC drawing H102 – Detail B

- Indicate connection to MUA-4 in new Mech Room on Mezzanine
- Indicate (2) type SL1 (4 foot) on either side of MUA
- Indicate three pole light switches at each door to control light fixtures.
- Indicate (1) duplex receptacle adjacent to each light switch
- Provide circuits for lights and receptacles from local circuitry.

## **13. Drawing E101 – Partial Floor Plan (Area B) Electrical New Work**

ADD **General Notes** to Sheets to read:

- A. See Phasing Sheet for all phasing requirements
- B. See HVAC Specifications and Floor Plans for Equipment Control requirements and sequencing – Coordinate with HVAC and General Contractor for Air Moving Equipment, Overhead Doors, and Lighting control interfacing.

REVISE Specific Note 6A to Sheets to read:

“6A. CONNECT NEW OHD MOTOR TO NEW EMERGENCY CIRCUIT INDICATED  
NOTE: FOR OHD'S, ACQUIRE CONTROLS FROM DOOR SUPPLIER, FOR EC  
INSTALLATION.  
PROVIDE CLASS 1 DIV II PROVISIONS FOR CONNECTION OF LINE VOLTAGE  
WIRING.  
NOTE – COORDINATE CONTROLS WITH HVAC SEQUENCING.”

ADD Specific Note 9 to Sheets to read:

- “9. Remount and re-connect existing Paddle Fans (Destratification Fans) that were disconnected and stored during ceiling demolition process (reuse existing controls).
- North garage: 10 - 5 on each side.
  - South garage: 3 on the west side (2 on the south half, one on the south part of the north half).
  - South garage: 2 on the east side, both on the south half
  - West (electrical shop) 1 about centered”.

#### **14. Drawing E102 – Partial Floor Plan (Area C) Electrical New Work**

ADD **General Notes** to Sheets to read:

- A. See Phasing Sheet for all phasing requirements
- B. See HVAC Specifications and Floor Plans for Equipment Control requirements and sequencing – Coordinate with HVAC and General Contractor for Air Moving Equipment, Overhead Doors, and Lighting control interfacing.

REVISE Specific Note 6A to Sheets to read:

- “6A. CONNECT NEW OHD MOTOR TO NEW EMERGENCY CIRCUIT INDICATED  
NOTE: FOR OHD'S, ACQUIRE CONTROLS FROM DOOR SUPPLIER, FOR EC  
INSTALLATION.  
PROVIDE CLASS 1 DIV II PROVISIONS FOR CONNECTION OF LINE VOLTAGE  
WIRING.  
NOTE – COORDINATE CONTROLS WITH HVAC SEQUENCING.”

ADD Specific Note 9 to Sheets to read:

- “9. Remount and re-connect existing Paddle Fans (Destratification Fans) that were disconnected and stored during ceiling demolition process (reuse existing controls).
- North garage: 10 - 5 on each side.
  - South garage: 3 on the west side (2 on the south half, one on the south part of the north half).
  - South garage: 2 on the east side, both on the south half
  - West (electrical shop) 1 about centered”.

ADD Specific Note 8 at Fuel Pump Panel (SB) to read:

- “8. RECIRCUIT EXISTING FUEL PUMP PANEL TO BE FED FROM NEW PANEL  
"STAND-BY" - TWO EXISTING EXTERIOR FUEL PUMPS ARE FED FROM THIS  
PANEL (CIRCUITRY FROM PANEL TO PUMP TO REMAIN "AS-IS")”.

DELETE indication of 4-gang switches shown in northwest corner. (**NOTE:** Existing switching controlling ETR items are to remain as-is and are indicated on the Floor Plans).

#### **15. Drawing E401 – Lighting Schedule and Details**

Detail 1 –

- REVISE mounting location of light fixture so that bottom of fixture is above bottom of beam –  
Utilize Unistrut trapeze to mount off of existing structure

#### **16. Drawing E402 – New Panels and Electrical Schedules**

REVISE size of breaker on MDP feeding “Stand-By” Panel to 400 amp in lieu of that shown.

Motor / Equipment Schedule:

- REVISE ampacities of feeders to motors to be according to panel breakers.
- ADD note to read: Coordinate all connections with supplier of equipment being connected.

REVISE Panel serving MDP 1 to be on New Panel HVAC in lieu of “Stand-By”.

### **17. Drawing E403 – Lighting Schedules and Details**

REVISE description and Model numbers for Light Fixtures Types TL1 and SL1 per the following:

- Provide combination of 48” long and 96” long chassis, for continuous runs as shown on drawings
- Eight-foot model number are as follows:
  - **TL1-8:** Lithonia ZL1F-L96-SMR-9000LM-MDD-120-35K-80CRI-WH/  
ZLRL96SYMWH/ HC36
  - **SL1-8:** Lithonia ZL1F-L96-12000LM-MDD-MVOLT-35K-80CRI-WH/H36

Lighting Control Schedule:

- ADD note indicating that design is based on Lithonia “n-Light” Relay panel
- ADD two notes (applied to Emergency circuited fixtures Ltg Ctrl zones a-f) to read:
  - “3a. Relay panel to send signal to HVAC Control System to turn on ventilation system when man-door over-ride switches are turned on during ‘after hours’
  - 3b. Ventilation is to be controlled per HVAC Control Zones.”

### **18. Drawing E501 – Electrical Room, Elevations, and Riser Plan**

Indicate Lighting Control Panel to be adjacent to “Life Safety” Panel

ADD note to Generator ‘Spec’ to read:

“Size of Generator is nominal – Other size (ie: 175kva) may be used if equal Generator Manufacturers calculate that the size is adequate to start the loads indicated on schedules”.

ADD note to riser to read:

“Extend existing connections from existing MDP to New MDP - Utilize new raceways/ wireway as required”.

Existing Solar System – ADD notes to read:

- Reroute feeder to new MDP
- Continue Separate Metering per MG & E’s requirements
- Coordinate work with MG & E

### **19. Drawing E300 – Partial Floor Plan (Area A) Fire Alarm New Work, Drawing E301 – Partial Floor Plan (Area B) Fire Alarm New Work, & Drawing E302 – Partial Floor Plan (Area C) Fire Alarm New Work**

ADD **General Notes** to Sheets to read:

- A. See Phasing Sheet for all phasing requirements
- B. See HVAC Specifications and Floor Plans for Equipment Control requirements and sequencing – Coordinate with HVAC and General Contractor for Air Moving Equipment, Overhead Doors, and Lighting control interfacing.

REVISE Specific Notes to only include Specific Note 1.

ADD Smoke Detectors to all Storage Rooms.

If any additional information about this Addendum is needed, please call Eric Urtes, AIA, at 608/266-4798, [urtes.eric@countyofdane.com](mailto:urtes.eric@countyofdane.com).

Sincerely,  
*Eric Urtes*  
Project Manager

Enclosures:  
Pre-bid Walkthrough Agenda and Sign-in Sheet

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Fish Hatchery Highway Garage – CNG Retrofit  
March 25/2020 @ 10:00 AM

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