

### ADDENDUM TO THE CONTRACT

#### for the

# CCFR WIDE VEHICLE EXHAUST REPLACEMENT Contract No. BE21-177

<u>ADDENDUM NO.</u>: FOUR <u>CURRENT DEADLINE FOR BIDS</u>:

March 25, 2021

**PREVIOUS ADDENDA: THREE** 

**ISSUED BY:** City and Borough of Juneau

ENGINEERING DEPARTMENT 155 South Seward Street Juneau, Alaska 99801 PREVIOUS DEADLINE FOR BIDS:

March 23, 2021

# **DATE ADDENDUM ISSUED:**

March 19, 2021

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: <a href="https://juneau.org/engineering-public-works">https://juneau.org/engineering-public-works</a>

## **INFORMATION ITEM:**

The downtown station repair bay is considered a minor repair garage, according to the National Electrical Code, Article 511.2. A related requirement in NFPA 30A, Code for Motor Fuel Dispensing and Repair Garages, does not allow the transfer of Class I gaseous fuels in minor repair garages. Minor repair garages are not designed for that purpose. So, even if a small amount of gasoline needs to be transferred to or from a vehicle, we recommend that those maintenance tasks be performed off-site in a major repair facility like a commercial repair garage.

No portion of the downtown repair bay is considered classified. Area classifications only come into play when there is a pit, below grade work area, or subfloor work area that is not ventilated. The downtown repair bay does not have that condition.

Attached is an excerpt from NEC, Article 511, for reference

#### **CLARIFICATIONS:**

QUESTION: I noted during the walkthrough that there is inventory above room 137 "Emer Gen" at

the Juneau fire station. Will it be the responsibility of the contractor to remove this and put back once the feeder is installed? Additionally, there are other items that may conflict with our installations such as TV monitors in the apparatus bays, will these be removed by the owner or will it be necessary for the contractor to remove and reinstall

them?

ANSWER: CCFR Staff will remove and reposition stored items during the Work. If additional

items which need removal and reinstallation during the Work, the Owner will address

these via a Request for Proposal during the WORK.

QUESTION: I removed ceiling tiles from the hallways that would facilitate the new feeder

installation at the Glacier Fire Station between Mechanical 108 and Apparatus 129. This hallway is completely full with ductwork for much of the ceiling and there are areas where the ductwork is affixed to the ceiling. Is the intent of the project for all of this ductwork to be removed to facilitate the installation of the new feeder? If not, can an alternate route be provided as installing the feeder above the accessible ceiling does not appear to be feasible?

ANSWER: Discussion of potential alternate routes at this location will be addressed during the

Work by the Request for Information (RFI) process.

# > DEADLINE FOR QUESTIONS IS NOW CLOSED

# **PROJECT MANUAL:**

Item No. 1 SECTION 00030 - NOTICE INVITING BIDS. DEADLINE FOR BIDS.

**Change** the date of the Deadline for Bids **from** March 23, 2021, **to** March 25, 2021. The time remains the same.

Item No. 2 SECTION 00030- NOTICE INVITING BIDS under COMPLETION OF WORK *delete* "140 Days after Notice to Proceed" and *replace* with "180 days after Notice to Proceed".

Item No. 3 SECTION 00500- AGREEMENT ARTICLE 2. CONTRACT COMPLETION TIME **delete** "140 Days after Notice to Proceed" and **replace** with "180 days after Notice to Proceed".

Greg Smith,

Contract Administrator

Total number of pages contained within this Addendum: 4

vapors, or because of deposits or accumulations of materials that may be readily ignitible.

**510.2 General.** The general rules of this *Code* and the provisions of Articles 500 through 504 shall apply to electrical wiring and equipment in occupancies within the scope of Articles 511 through 517, except as such rules are modified in Articles 511 through 517. Where unusual conditions exist in a specific occupancy, the authority having jurisdiction shall judge with respect to the application of specific rules.

# ARTICLE 511 Commercial Garages, Repair and Storage

Informational Note: Text that is followed by a reference in brackets has been extracted from NFPA 30A-2015, *Code for Motor Fuel Dispensing Facilities and Repair Garages*. Only editorial changes were made to the extracted text to make it consistent with this *Code*.

**511.1 Scope.** These occupancies shall include locations used for service and repair operations in connection with self-propelled vehicles (including, but not limited to, passenger automobiles, buses, trucks, and tractors) in which volatile flammable liquids or flammable gases are used for fuel or power.

#### 511.2 Definitions.

**Major Repair Garage.** A building or portions of a building where major repairs, such as engine overhauls, painting, body and fender work, and repairs that require draining of the motor vehicle fuel tank are performed on motor vehicles, including associated floor space used for offices, parking, or showrooms. [30A:3.3.12.1]

**Minor Repair Garage.** A building or portions of a building used for lubrication, inspection, and minor automotive maintenance work, such as engine tune-ups, replacement of parts, fluid changes (e.g., oil, antifreeze, transmission fluid, brake fluid, air-conditioning refrigerants), brake system repairs, tire rotation, and similar routine maintenance work, including associated floor space used for offices, parking, or showrooms. [30A:3.3.12.2]

- **511.3** Area Classification, General. Where Class I liquids or gaseous fuels are stored, handled, or transferred, electrical wiring and electrical utilization equipment shall be designed in accordance with the requirements for Class I, Division 1 or 2 hazardous (classified) locations as classified in accordance with 500.5 and 500.6, and this article. A Class I location shall not extend beyond an unpierced wall, roof, or other solid partition that has no openings. [**30A:** 8.3.1, 8.3.3]
- (A) Parking Garages. Parking garages used for parking or storage shall be permitted to be unclassified.

Informational Note: For further information, see NFPA 88A-2015, Standard for Parking Structures, and NFPA 30A-2015, Code for Motor Fuel Dispensing Facilities and Repair Garages.

**(B) Repair Garages, with Dispensing.** Major and minor repair garages that dispense motor fuels into the fuel tanks of vehicles, including flammable liquids having a flash point below 38°C (100°F) such as gasoline, or gaseous fuels such as natural

gas, hydrogen, or LPG, shall have the dispensing functions and components classified in accordance with Table 514.3(B)(1) in addition to any classification required by this section. Where Class I liquids, other than fuels, are dispensed, the area within 900 mm (3 ft) of any fill or dispensing point, extending in all directions, shall be a Class I, Division 2 location.

(C) Repair Garages, Major and Minor. Where vehicles using Class I liquids or heavier-than-air gaseous fuels (such as LPG) are repaired, hazardous area classification guidance is found in Table 511.3(C).

Informational Note: For additional information, see NFPA 30A-2015, Code for Motor Fuel Dispensing Facilities and Repair Garages, Table 8.3.2.

(D) Repair Garages, Major. Where vehicles using lighter-thanair gaseous fuels (such as hydrogen and natural gas) are repaired or stored, hazardous area classification guidance is found in Table 511.3(D).

Informational Note: For additional information see NFPA 30A-2015, Code for Motor Fuel Dispensing Facilities and Repair Garages, Table 8.3.2.

- (E) Modifications to Classification.
- (1) Specific Areas Adjacent to Classified Locations. Areas adjacent to classified locations in which flammable vapors are not likely to be released, such as stock rooms, switchboard rooms, and other similar locations, shall be unclassified where mechanically ventilated at a rate of four or more air changes per hour, or designed with positive air pressure, or where effectively cut off by walls or partitions.
- (2) Alcohol-Based Windshield Washer Fluid. The area used for storage, handling, or dispensing into motor vehicles of alcohol-based windshield washer fluid in repair garages shall be unclassified unless otherwise classified by a provision of 511.3. [30A: 8.3.1, Exception]
- 511.4 Wiring and Equipment in Class I Locations.
- **(A) Wiring Located in Class I Locations.** Within Class I locations as classified in 511.3, wiring shall conform to applicable provisions of Article 501.
- **(B) Equipment Located in Class I Locations.** Within Class I locations as defined in 511.3, equipment shall conform to applicable provisions of Article 501.
- (1) **Fuel-Dispensing Units.** Where fuel-dispensing units (other than liquid petroleum gas, which is prohibited) are located within buildings, the requirements of Article 514 shall govern.

Where mechanical ventilation is provided in the dispensing area, the control shall be interlocked so that the dispenser cannot operate without ventilation, as prescribed in 500.5(B)(2).

(2) Portable Lighting Equipment. Portable lighting equipment shall be equipped with handle, lampholder, hook, and substantial guard attached to the lampholder or handle. All exterior surfaces that might come in contact with battery terminals, wiring terminals, or other objects shall be of nonconducting material or shall be effectively protected with insulation. Lampholders shall be of an unswitched type and shall not provide means for plug-in of attachment plugs. The outer shell shall be of molded composition or other suitable material. Unless the lamp and its cord are supported or arranged in such

N Table 511.3(C) Extent of Classified Locations for Major and Minor Repair Garages with Heavier-Than-Air Fuel

	Class I		
Location	Division (Group D)	Zone (Group IIA)	Extent of Classified Location
Repair garage, major (where Class I liquids or gaseous fuels are transferred or dispensed*)	1	1	Entire space within any pit, belowgrade work area, or subfloor work area that is not ventilated
	2	2	Entire space within any pit, belowgrade work area, or subfloor work area that is provided with ventilation of at least 0.3 m³/min/m² (1 ft³/min/ft²) of floor area, with suction taken from a point within 300 mm (12 in.) of floor level
	2	2	Up to 450 mm (18 in.) above floor level of the room, except as noted below, for entire floor area
	Unclassified	Unclassified	Up to 450 mm (18 in.) above floor level of the room where room is provided with ventilation of at least 0.3 m <sup>3</sup> /min/m <sup>2</sup> (1 ft <sup>3</sup> /min/ft <sup>2</sup> ) of floor area, with suction taken from a point within 300 mm (12 in.) of floor level
	2	2	Within 0.9 m (3 ft) of any fill or dispensing point, extending in all directions
Specific areas adjacent to classified locations	Unclassified	Unclassified	Areas adjacent to classified locations where flammable vapors are not likely to be released, such as stock rooms, switchboard rooms, and other similar locations, where mechanically ventilated at a rate of four or more air changes per hour or designed with positive air pressure or where effectively cut off by walls or partitions
Repair garage, minor (where Class I liquids or gaseous fuels are not transferred or dispensed*)	2	2	Entire space within any pit, belowgrade work area, or subfloor work area that is not ventilated
	2	2	Up to 450 mm (18 in.) above floor level, extending 0.9 m (3 ft) horizontally in all directions from opening to any pit, belowgrade work area, or subfloor work area that is not ventilated
	Unclassified	Unclassified	Entire space within any pit, belowgrade work area, or subfloor work area that is provided with ventilation of at least $0.3 \text{ m}^3/\text{min/m}^2$ (1 ft <sup>3</sup> /min/ft <sup>2</sup> ) of floor area, with suction taken from a point within 300 mm (12 in.) of floor level
Specific areas adjacent to classified locations	Unclassified	Unclassified	Areas adjacent to classified locations where flammable vapors are not likely to be released, such as stock rooms, switchboard rooms, and other similar locations, where mechanically ventilated at a rate of four or more air changes per hour or designed with positive air pressure, or where effectively cut off by walls or partitions

\*Includes draining of Class I liquids from vehicles.

a manner that they cannot be used in the locations classified in 511.3, they shall be of a type identified for Class I, Division 1 locations.

511.7 Wiring and Equipment Installed Above Class I Locations.

# (A) Wiring in Spaces Above Class I Locations.

(1) Fixed Wiring Above Class I Locations. All fixed wiring above Class I locations shall be in metal raceways, rigid nonmetallic conduit, electrical nonmetallic tubing, flexible metal conduit, liquidtight flexible metal conduit, or liquidtight flexi-

ble nonmetallic conduit, or shall be Type MC, AC, MI, manufactured wiring systems, or PLTC cable in accordance with Article 725, or Type TC cable or Type ITC cable in accordance with Article 727. Cellular metal floor raceways or cellular concrete floor raceways shall be permitted to be used only for supplying ceiling outlets or extensions to the area below the floor, but such raceways shall have no connections leading into or through any Class I location above the floor.

(2) **Pendant.** For pendants, flexible cord suitable for the type of service and listed for hard usage shall be used.