



CITY OF HOUSTON
Department of Public Works and Engineering

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Mayor

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December 4, 2015

Subject: Letter of Clarification No. 5
City of Houston Standard Specification
Fire Hydrants Revised

Reference: Invitation to Bid (ITB) No.: Q25429

To All Prospective Bidders:

This Letter of Clarification is issued for the following reasons:

- To revise the above referenced solicitation as follows:
 1. Replace City of Houston Fire Hydrants Standard Specification Section 02520 10/8/2015 with "Revised City of Houston Fire Hydrants Standard Specification Section 02520 12/03/2015".

2.03 Hydrant Painting

Article B Exterior Above Traffic Flange (Including Bolts & Nuts)

2. Coat with a liquid or powder epoxy primer and two part polyurethane or TGIC polyester top coat system with total dry film thickness (DFT) of not to exceed 20 mils as follows.

Article D. Exterior Below Traffic Flange (Including lower barrel extension).

2. Primer: One or two coats of modified or equal polyamide epoxy primer, to be in general conformance with SSPC Paint Specification No. 42 or approved equal with a total dry film thickness (DFT) of 8-20 mils. Exterior below traffic flange should be the same color as the above traffic flange, i.e., blue (Federal Standard Color #15187 (Blue) or equivalent.)

Article E. Interior Surfaces Above and Below Water Line Valve (Including lower barrel extensions)

2. Coating shall be liquid or powder epoxy system in accordance with AWWA Standard C-550 (latest revision). Coating may be applied in two or three coats, according to manufacturer's recommendations for total dry film thickness not to exceed 20 mils.

Council Members: Brenda Stardig Jerry Davis Ellen R. Cohen Dwight A. Boykins Dave Martin Richard Nguyen Oliver Pennington Edward Gonzalez
Robert Gallegos Mike Laster Larry V. Green Stephen C. Costello David W. Robinson Michael Kubosh C.O. "Brad" Bradford Jack Christie
Controller: Ronald C. Green

Letter of Clarification No. 5 Referenced Q25429 (Continued)

2. *Fire Hydrants and Parts Q25429*

1.0 Pre-Submittal Meeting:

There will be a follow up (non-mandatory) meeting held at **City of Houston Public Works Department, Engineering Division, 1002 Washington Ave. Houston, TX, 77002, 2nd Floor Conference Room 2A at 2:00 p.m. to 2:30 p.m. Thursday, December 10, 2015.** The purpose of this meeting is to explain both the application and subsequent certification processes. Only those questions submitted in writing prior to or during this meeting will be evaluated for clarification.

This Letter of Clarification will be considered part of the solicitation referenced above. All revisions, responses, and answers incorporated into the Letter(s) of Clarification are collaboratively from both the Strategic Procurement Division and the applicable City Department(s).

Furthermore, it is the responsibility of each BIDDER to obtain any previous Letter(s) of Clarification associated with this solicitation.

Regards,

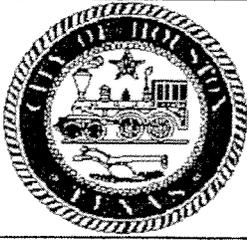


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C: file

Partnering to better serve Houston

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**CITY OF HOUSTON
PUBLIC WORKS & ENGINEERING
DEPARTMENT**
2015 Fire Hydrant Certification
NOTICE OF REQUEST FOR QUALIFICATIONS

Material Management
Contracts
2nd Floor 2805 McKinney
Houston Texas 77003

**FIRE HYDRANTS AND PARTS
Q25429**

The City of Houston Public Works & Engineering Department is soliciting applications from qualified suppliers capable of providing fire hydrants and parts in accordance with City of Houston Standard Specifications Section 02520.

Please review the application for Certificate of Responsibility below. This application must be submitted by all potential bidders for fire hydrants and parts for approval and certification. This application must be completed, submitted in duplicate, and time stamped in **on or before 5:00 p.m. CST, Thursday, January 14, 2016** to the address listed below. Applications received after this date will not be considered in the certification or the bidding process. Faxed applications will not be accepted. If the application is mailed, the potential bidders are cautioned to ensure the application is received at the place, date and time established.

City of Houston
Attention: Ted Hockless
Public Works and Engineering Department
Material Management / Contracts
2805 McKinney, 2nd Floor
Houston, TX 77003
C.O.B. 5:00 p.m. 01/14/16
ted.hockless@houstontx.gov

SCOPE OF WORK/SERVICES

1.0 Pre-Submittal Meeting:

There will be a follow up (non-mandatory) meeting held at **City of Houston Public Works Department, Engineering Division, 1002 Washington Ave. Houston TX, 77002, 2nd Floor Conference Room 2A at 2:00 p.m. to 2:30 p.m. Thursday, December 10, 2015**. The purpose of this meeting is to explain both the application and subsequent certification processes. Only those questions submitted in writing prior to or during this meeting will be evaluated for clarification.

Section 02520

FIRE HYDRANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fire hydrants.
- B. Adjustment of fire hydrants and gate valves.

1.02 MEASUREMENT AND PAYMENT

A. Unit Prices.

1. Payment is on a unit price basis for each fire hydrant assembly, including 6-inch gate valve and box, installed regardless of barrel depth.
2. Payment for fire hydrant branches (leads) is on linear foot basis for each branch installed. Separate pay items are used for open-cut and augured branches.
3. Payment for salvaged fire hydrants is on unit price basis for each fire hydrant removed and returned to City's Maintenance Quadrant Stock yard.
4. Refer to Section 01270 - Measurement and Payment for unit price procedures.

- B. Stipulated Price (Lump Sum). If Contract is Stipulated Price Contract, payment for work in this Section is included in total Stipulated Price.

1.03 REFERENCES

- A. AWWA C 502 – Standard for Dry Barrel fire Hydrants (Latest Edition).
- B. AWWA C 550 - Standard for Protective Epoxy Interior Coatings for Valves and Hydrants
- C. SSPC SP2 - Hand Tool Cleaning
- D. SSPC SP3 - Power Tool Cleaning
- E. SSPC SP10 - Near-White Blast Cleaning
- F. SSPC SP11 - Power Tool Cleaning to Bare Metal

- G. SSPC 42 – Epoxy Polyamide/Polyamidoamine Primer, performance based
- H. SSPC 36 – Two-Component Weatherable Aliphatic Polyurethane Topcoat, performance based

1.04 SUBMITTALS

- A. Conform to requirements of Section 01330 - Submittal Procedures.
- B. Submit name of hydrant manufacturer, type of bonnet paint, and engineering control drawing number for hydrant proposed for use.

PART 2 PRODUCTS

2.01 HYDRANTS

- A. Provide fire hydrants in conformance with AWWA C 502, Standard for Dry Barrel Fire Hydrants (Latest Edition). Hydrants are approved by the City for issuance of a Certificate of Responsibility. Only hydrants with current Certification of Responsibility will be allowed in City of Houston projects. Approved fire hydrants are listed under City's Approved Water Product List.
<http://documents.publicworks.houstontx.gov/document-center/approved-water-products/index.htm>
- B. The Project Manager may, at any time prior to or during installation of hydrants, randomly select furnished hydrant for disassembly and laboratory inspection, at City expense, to verify compliance with Specifications. When hydrant is found to be non-compliant, replace, at Contractor's expense, hydrants, with hydrants that comply with Specifications.
- C. Provide lower hydrant barrel fabricated from Ductile Iron Pipe as single piece, connected to upper hydrant barrel by means of joint coupling that will provide three hundred sixty degree (360) rotation of upper barrel.

2.02 LEADS

- A. Branches (Leads): Conform to requirements of Section 02501 - Ductile Iron Pipe and Fittings, Section 02502 - Steel Pipe and Fittings, and Section 02506 - Polyvinyl Chloride Pipe.

2.03 HYDRANT PAINTING

- A. New hydrants and refurbished hydrants shall be shop coated as specified herein.

- B. Exterior Above Traffic Flange (Including Bolts & Nuts). Bolts and nuts (both above and below ground) shall conform to AWWA C-502 Section 4.11 and shall be stainless steel, cadmium plated, or zinc coated.
1. Surface preparation to be in accordance with SSPC-SP 10 (NACE 2) near white blast cleaned surface.
 2. Coat with a liquid or powder epoxy primer and two part polyurethane or TGIC polyester top coat system with total dry film thickness (DFT) of not to exceed 20 mils as follows:
 - a. Prime Coat - Liquid or powder epoxy primer with a total dry film thickness (DFT) of 4-6 mils, OR cathodic epoxy electro-coat (e-coat) with a (DFT) of 0.5-1.0 mils.
 - b. Intermediate Coat – Intermediate coat not required.
 - c. Finish Coat - Two part polyurethane enamel to be in general conformance with SSPC Paint Specification No. 36 or TGIC polyester system, with a total dry film thickness (DFT) 1.5-3.0 mils. Install color coded finish coating of bonnet in field.
 - d. Bonnet Paint - Field apply finish coat of Silicone Alkyd Resin Enamel to be in general conformance with SSPC Paint Specification No. 21. Dry film thickness of 2 - 3 mils. Bonnet colors are to be as specified in Paragraph 3.01 to designate the appropriate size of water supply line.
 3. Colors - Primer: Manufacturer's standard color. Finish coat of hydrant body: Federal Standard Color #15187 (Blue) or equivalent. Bonnet and Connection caps: Finished coated white. Paint white band of finish coat two (2) inches in width on hydrant body approximately six inches (6") above and parallel to traffic flange.
- C. Field Maintenance Painting (Exterior Above Traffic Flange)
1. Surface Preparation to be in accordance with SSPC - SP2, Hand Tool Cleaning, or SSPC - SP3, Power Tool Cleaning, depending on condition of existing paint and extent of corrosion. It is not necessary to remove tightly adhered mill scale, rust, and paint. Mill scale, rust and paint are considered tightly adherent when they cannot be removed with dull putty knife. In some severe cases where it is necessary to remove majority of existing paint, surface should be cleaned in accordance with SSPC -SP11, Power Tool Cleaning to Bare Metal.
 2. When surface is cleaned to bare metal (SSPC - SP11), coat hydrant with three coat Alkyd/Silicone Alkyd system in accordance with Paragraph 2.03.B.2 as for new

hydrants. When surface is cleaned to SSPC - SP2 or SSPC - SP3, coat hydrant with Silicone Alkyd Resin Enamel in general conformance with SSPC Paint Specification No. 21. Total dry film thickness of 3-6 mils.

Field coating should be conducted in accordance to the individual coatings manufacturer's recommendations.

- D. Exterior Below Traffic Flange (including lower barrel extensions).
 - 1. Surface preparation in accordance with SSPC- SP10 (NACE 2) Near White Blast Cleaned Surface.
 - 2. Primer: One or two coats of modified or equal polyamide epoxy primer, to be in general conformance with SSPC Paint Specification No. 42 or approved equal with a total dry film thickness (DFT) of 8-20 mils. Exterior below traffic flange should be the same color as the above traffic flange, i.e., blue. (Federal Standard Color #15187 (Blue) or equivalent.)

- E. Interior Surfaces Above and Below Water Line Valve (including lower barrel extensions)
 - 1. Material used for internal coating of hydrant interior ferrous surfaces must be NSF certified as suitable for contact with potable water as required by Chapter 290, Rules and Regulations for Public Water Systems, Texas Commission on Environmental Quality.
 - 2. Coating shall be liquid or powder epoxy system in accordance with AWWA Standard C - 550 (latest revision). Coating may be applied in two or three coats, according to manufacturer's recommendations, for total dry film thickness not to exceed 20 mils.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Set fire hydrant plumb and brace at locations and grades as shown on Drawings. When barrel of hydrant passes through concrete slab, place 1-inch-thick piece of standard sidewalk expansion joint material around section of barrel passing through concrete.
- B. Locate nozzle center line minimum 18 inches above finish grade.
- C. Place 12-inch by 12-inch yellow indicators (plastic, sheet metal, plywood, or other material approved by Project Manager) on pumper nozzles of new or relocated fire hydrants installed on new water lines not in service. Remove indicators after new water line is tested and approved by Project Manager.

- D. Do not cover drain ports when placing concrete thrust block.

- E. Obtain Project Manager's approval in writing prior to installation of hydrants which require changes in bury depth due to obstructions not shown on Drawings. Unit price adjustments will not be allowed for changes in water line flow line or fire hydrant barrel length caused by obstructions.
- F. Plug branch lines to valves and fire hydrants shown on Drawings to be removed. Deliver fire hydrants designated for salvage to nearest Utility Maintenance Quadrant Facility.
- G. Install branches (leads) in accordance with Section 02511 - Water Lines.
- H. Coating Requirements:
 - 1. Apply coatings in strict accordance with manufacturer's recommendations. No requirements of this specification shall cancel or supersede written directions and recommendations of specific manufacturer so as to jeopardize integrity of applied system.
 - 2. Furnish affidavit of compliance that coatings furnished complies with requirements of this specification and referenced standards, as applicable.
- I. Use following color code for field coating of hydrant bonnet to indicate size of water line supplying hydrant:

Supply Water Line Diameter (inches)	Bonnet Color
6	Yellow
8	White
12-20	Green
24 and larger	Orange

- J. Remove and dispose of unsuitable materials and debris in accordance with requirements of Section 01576 - Waste Material Disposal.

END OF SECTION