

CITY OF SAUSALITO
420 Litho Street, Sausalito, CA 94965

Addendum No. 1

Issued June 12, 2024

For
BLOCK 303 SEWERAGE IMPROVEMENT PROJECT

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NOTICE TO ALL PLAN HOLDERS SUBMITTING BIDS FOR THIS WORK:

You are hereby notified of the following information, changes, clarifications or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and subsequent Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same and shall take precedence over anything to the contrary therein. All other conditions remain, **UNCHANGED**.

This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

SPECIFICATION REVISION(S):

Replace Section 10-7.02 Measurement and Payment clause as follows:

The contract price paid for each "Potholing in Alexander Ave (Revocable)" (**Bid Item 16 & Bid Item 1.11**) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all the work involved, including removals, disposals, sawcutting, temporary asphalt plug, and final hot mix HMA pavement restoration, as specified in the Standard Specifications and these Specifications, and as directed by the Engineer.

Bid items noted as "revocable items" may be deleted entirely or in part from the Work at the option of the City. The provisions of Section 9-1.06B, "Increases of More Than 25 Percent", and Section 9-1.06C, "Decreases of More Than 25 Percent", of the Caltrans Standard Specifications shall not apply to such omission, and no compensation will be allowed the Contractor by reason of such omission.

Revise Section 10-12.05 Measurement and Payment, 5th paragraph, as follows:

The contract lump sum price paid for "Gravity Pipe on Private Property (4" or 6" Diameter) (**Bid Item 13**) shall include full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all the work involved in construction of new sewer pipe, complete in place, included saw-cutting, dewatering, trench excavation, furnishing and placing trench backfill materials, connections, pavement restoration, cleaning and testing including

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video, in place, as shown on the plans and as herein specified; and no additional compensation will be allowed therefor.

Add new 6th and 7th paragraph to Section 10-12.05 Measurement and Payment:

The contract price paid per linear foot for "SS Gravity Pipe in Alexander Ave (4" or 6" Diameter) Revocable" (**Bid Item 15 and 1.10**) shall include full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all the work involved in construction of new sewer pipe, complete in place, included saw-cutting, dewatering, trench excavation, furnishing and placing trench backfill materials, connections, pavement restoration, cleaning and testing including video, in place, as shown on the plans and as herein specified; and no additional compensation will be allowed therefor.

Bid item noted as "revocable items" may be deleted entirely or in part from the Work at the option of the City. The provisions of Section 9-1.06B, "Increases of More Than 25 Percent", and Section 9-1.06C, "Decreases of More Than 25 Percent", of the Caltrans Standard Specifications shall not apply to such omission, and no compensation will be allowed the Contractor by reason of such omission.

Add Section **SECTION 10-20 – SANITARY SEWER MANHOLE (REVOCABLE BID ITEM)**

10-20.01 GENERAL

The Contractor shall furnish and install manholes, complete with cast-in-place or precast bases, pipe connections, barrel and cone components, preformed joint sealant, grade rings, frames, covers and other appurtenances shown on the Plans or specified in this Section.

Manholes shall be concentric type, unless utility conflicts or other issues require the use of an eccentric cone.

Where new manholes are installed on existing piping, the pipe size and material entering the manhole shall match the existing piping.

10-20.02 SUBMITTALS

Contractor shall provide submittal for the Respective manufacturer's product data for manufactured products.

If allowed, the Contractor shall submit complete shop drawings for a precast manhole bases to the District, and shall receive favorable review prior to ordering the bases.

10-20.03 MATERIALS

Manhole shall be of the size, shape, and depth as indicated on the Project Contract Documents or required by these Specifications and Contract Plans, but manholes shall never be less than 4 feet inside diameter with 5-inch thick walls.

MANHOLE BASES

- Manhole bases shall be cast-in-place concrete, unless otherwise approved by the Engineer.
- Inlet and outlet pipe connections shall match the pipe diameter and material of the connecting sewer mains or side sewers.

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- Manhole channels shall be shaped to form a smooth transition of uniform cross-section from inlet pipes to the outlet pipe, both horizontally and vertically.

PRECAST CONCRETE COMPONENTS

- Manhole shall be constructed of precast concrete manhole rings. Precast concrete rings shall be manufactured by a process that will produce a dense, homogeneous concrete ring of first quality.
- Precast concrete sections shall conform to ASTM C478 unless otherwise modified in the Drawings.
- The precast rings shall have a minimum wall thickness of 1/12 of the inner diameter of the manhole unless otherwise stated.
- Precast manhole components shall be constructed of 5000 psi reinforced concrete (min) at 28 days using cement Type II Portland cement as specified in ASTM C150.
- All precast manhole components shall be H20 load rated.
- Eccentric manholes, where required, shall be provided with steps. The manhole frame and cover and steps for eccentric manholes shall be positioned over the manhole shelf.
- The use of pre-cast bases will require District approval. Precast manholes bases shall not be used in areas where the finished grade slope is greater than ten (10) percent.
 - Flexible pipe connectors shall be cast into the base at the pre-cast plant to provide a tight seal between base and pipe.
 - Channels and shelf shall be cast at the pre-cast plant. The Contractor shall field verify size, location, and depth of any existing pipes prior to ordering materials.
- Precast Concrete Components manufacturer shall be approved by the Engineer.

CONCRETE EXPANSION RINGS

- The manhole frame and cover shall be set to such an elevation that the top of the cover is placed at the proposed street grade or the elevation shown on the drawings, with a minimum of one 6-inch precast riser section placed between the top of the reducing slab section and the iron manhole frame. Maximum height of extension rings shall be 12 inches in paved areas, and in unpaved areas only one extension ring of 6 inches shall be used.

FRAME AND COVERS

- Castings for manhole frames and covers shall conform to the requirements of ASTM A48, Class 30B Heavy Duty cast iron construction. Cast-iron covers and frames shall be heavy traffic type, H-20 load rated.
- Frame and cover size, design, and design shall be as shown in the Contract plans and labeled "Sanitary Sewer".
- Castings shall be machined flat bearing surface, non-rocking removable lid, special non-skid cover design.
- Manhole covers shall be sealed to prevent escape of odors.
- Pick hole shall be closed and fit a standard pick.
- Bottom of cover shall indicate manufactured date, month and year.
- All castings shall be dipped in asphalt paint.

JOINTS

- Joints between sections shall have a preformed flexible plastic sealing gasket installed between the tongue and groove joint to make a watertight joint.
- Joint gasket compound shall be suitable for use with wastewater and shall conform to Federal Specification SS-S-00210 (GSA-FSS), Type 1, Rope Form, and hydrostatic pressure tests of ASTM C443.

MORTAR AND GROUT.

- Mortar shall be standard premixed mortar conforming to ASTM C-387 or proportion 1-part Portland cement to 2-parts clean, well-graded sand which will pass a 1/8-inch screen.

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Admixtures may be used not exceeding the following percentages of weight of cement: hydrated lime, 10 percent; diatomaceous earth or other inert materials, 5 percent.

WATERPROOFING

- All new manholes shall be provided with a minimum of two coats of waterproofing.
- Treat the concrete with the crystalline waterproofing product/technology, prior to the sealant performs as a combination for damp proofing/waterproofing.

FLEXIBLE PIPE CONNECTOR

- The flexible connector shall be Fernco, 5000 Series RC coupling with Type 316 Stainless Steel hardware or approved equal.
- Pipe connections to precast manhole bases shall be with a flexible pipe connection.
- Flexible pipe connectors shall be cast into the precast base at the precast plant. The connector shall assure that a seal is made between the connector and the structure wall by casting the connector integrally with the structure wall during the manufacturing process in a manner that it will not pull out during pipe coupling.
- Flexible connectors shall be molded from EPDM compound engineered to conform with the requirements of section 4.1.1 of ASTM C-923, latest edition.
- Flexible connector shall meet or exceed all material and testing requirements of ASTM C923. All hardware shall be Type 316 stainless steel.
- The flexible connector shall be sized specifically for the type of pipe being used and shall be installed in accordance with the recommendations of the manufacturer. The Contractor shall verify any existing pipe size, material, and locations prior to ordering materials.

Base rock material shall be clean 1-1/2-inch minus gravel or crushed rock uniformly graded from coarse to fine. Base rock shall be of such nature that it can be readily compacted.

Concrete for special manhole structures shall conform to Section 28-5.02B, "Portland Cement Concrete," of the Standard Specifications.

Reinforcing steel for manhole structures shall conform to Section 52, "Reinforcement," of the Standard Specifications. The payment requirements in Section 52-1.04, "Payment" of the Standard Specifications will not apply.

Large diameter precast sections shall conform to the requirements stated herein for precast manhole sections.

Standard manholes shall conform to City Standard Detail SD-304 and these Special Provisions. Manholes shall be constructed plumb with sections level. Joints shall be tongue-and-groove type.

Standard manhole sections shall conform to the requirements of ASTM C-478 and the following requirements. The Portland cement used in the precast sections shall conform to ASTM C-150, Type II. Reinforcing steel shall have a minimum cross-sectional area of three-tenths (0.30) square inches per foot in both directions.

Cones shall be manufactured of the same materials, strength, and quality requirements as the straight sections. The cones shall be concentric and shall have a maximum height of three (3) feet.

The throat of the manhole, including grade rings and frame, shall not exceed twenty-four (24) inches.

Mortar shall be standard premixed mortar conforming to ASTM C-387 or proportion 1-part Portland cement to 2-parts clean, well-graded sand which will pass a 1/8-inch screen. Admixtures

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may be used not exceeding the following percentages of weight of cement: hydrated lime, 10 percent; diatomaceous earth or other inert materials, 5 percent.

Preformed plastic gaskets shall be used to join pre-cast manhole sections and shall be "Kent-Seal No. 2" manufactured by Hamilton Kent Manufacturing Company, Box 178, Kent, Ohio 44240; "Ram-Nek", manufactured by K.T. Snyder Company, Inc., Central National Bank Bldg., Houston, TX 77002; or approved equal, meeting all requirements of Federal Specification SS-S-00210A, "Sealing Compound, Preformed Plastic for Pipe Joints". The size of the preformed gasket material shall be as recommended by the manufacturer of the precast manhole sections. Covers and frames shall conform to the City Standard Detail SD-307 and these special provisions.

Castings shall be close-grained gray iron, free from all defects, and shall conform to ASTM A 48, Class 30B. Plane or grind bearing surfaces to ensure flat, true surfaces. Covers shall be true and seat within ring at all points.

All plastic pipe connections to manholes and stub outs shall a flexible gasket connector/water stop grouting ring constructed of high-quality synthetic rubber and stainless-steel components that meet or exceed ASTM C-923 (WS Series Water stop by Press-Seal Gasket Corp. or approved equal).

Pipe for stub outs shall be the same material as approved and furnished for the project, unless otherwise indicated on the Plans. Each stub out shall be fitted with a rubber gasketed watertight plug or an expandable type of standard sewer plug.

10-20.04 EXECUTION

Backfill around manholes shall be of the quality of new trench backfill immediately adjacent.

Water in the excavation must be removed. Place a minimum of 6 inches of base rock material and thoroughly compact with a mechanical vibrating or power tamper.

Construct concrete base in conformance with the Contract Plans. Vibrate to densify the concrete and screed so that the joint for the first precast manhole section can be formed level and uniform for the full circumference.

Form all vertical surfaces with plywood, boards, or other approved material. Trench walls or earth will not be approved form material except as shown on the plans.

Carefully inspect precast manhole sections to be joined. Sections with chips or cracks in the tongue shall not be used. Preformed plastic gaskets shall be installed in strict conformance with the manufacturer's recommendations. Only pipe primer furnished by the gasket manufacturer will be approved.

Stub outs from manholes for future sewer connections shall be installed as shown on the Plans or as required by the Engineer. Maximum length shall be 3 feet outside the manhole wall. Pipe stub outs shall have a rubber water stop tightly bonded to the pipe and cast into the manhole base.

Semi-permanent plugs shall be installed in the end of stub outs. Plugs shall be capable of withstanding all internal or external pressures without leakage. All plugs shall be braced to prevent blowouts.

As part of the concrete base, construct manhole inverts in conformance with details shown on the

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Plans, and with smooth transitions to ensure an unobstructed flow through manhole. Remove all sharp edges or rough sections which tend to obstruct flow. Where a full section of pipe is laid through a manhole, break out the top section as indicated and cover exposed edge of pipe completely with mortar. Trowel all mortar surfaces smooth.

Install extensions in conformance with the Contract Plans and to the height determined by Engineer. Lay grade rings in mortar with sides plumb and tops level. Seal joints with mortar. Extensions shall be watertight.

Install frames and covers on top of manholes in conformance with the Contract Plans. Frames shall be set in a bed of mortar with the mortar carried over the flange of the ring. Set frames so tops of covers are flush with surface of adjoining pavement or ground surface, unless otherwise shown or directed.

TESTING.

- 1 Sanitary sewer manholes may be vacuum tested in lieu of water testing. Vacuum testing of manholes shall be performed twice, first prior to backfilling and then again after backfilling.
2. Vacuum testing of manholes shall conform to the standard set for in ASTM C1244-93 Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.
3. The District representative shall be notified a minimum of two working days prior to the testing of the manholes.
4. The Contractor shall be responsible to perform the tests. The District's representative shall be present during all tests.
5. The Contractor shall document the tests and submit this documentation to the District.
6. Manholes shall be prepared for vacuum testing as follows:
 - a. All lift holes shall be plugged.
 - b. All pipes entering the manhole shall be temporarily plugged, taking care to securely brace the pipes and plugs to prevent them from being drawn into the manhole.
7. Vacuum testing of manholes shall be conducted as follows:
 - a. The test head shall be placed at the top of the manhole in accordance with the manufacturer's recommendations.
 - b. A vacuum of 10 inches of mercury shall be drawn on the manhole, the valve on the vacuum line of the test head closed, and the vacuum pump shut off. The time shall be measured for the vacuum to drop to 9 inches of mercury.
 - c. The manhole shall pass if the time for the vacuum readings to drop from 10 inches of mercury to 9 inches of mercury meets or exceeds the values indicted in Table 1.
 - d. If the manhole fails the initial test the leaks shall be located, and the necessary repairs made by an approved method. The manhole shall then be retested until a satisfactory test is obtained.

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TABLE 1 - VACUUM TEST TIMETABLE			
MANHOLE DEPTH-FEET	<u>MANHOLE DIAMETER-INCHES</u>		
	48"	60"	72 "
4'	10 sec.	13 sec.	16 sec.
8'	20 sec.	26 sec.	32 sec.
12'	30 sec.	39 sec.	48 sec.
16'	40 sec.	52 sec.	64 sec.
20'	50 sec.	65 sec.	80 sec.
24'	60 sec.	78 sec.	96 sec.
*	5.0 sec.	6.5 sec.	8.0 sec.

*Add "T" times for each additional 2' depth.
(The values listed above have been extrapolated from ASTM designation C924-85.)

8. If the vacuum test fails, or 10" Hg vacuum cannot be obtained the following procedure shall be followed to locate the leaks.
- Shut off vacuum pump
 - Remove vacuum test plate from manhole
 - Then, using a 2-gallon hand pump sprayer (like a garden sprayer), spray the interior surface of the manhole with a soap and water mixture
 - Begin testing
 - After 30 second, stop vacuum and remove vacuum test plate once again
 - Check the inside of manhole for soapy bubbles, indicating the areas that leak

10-20.05 MEASUREMENT AND PAYMENT

The contract price paid per each "Sanitary Sewer Maintenance Manhole (Revocable)" (Bid Item 14 and 1.9) shall include full compensation for furnishing all labor, materials, tools, equipment, testing and incidentals, and for doing all the work involved, including saw-cutting, excavation, dewatering, installation of double waterstops for each pipe connection, connections, frame and cover, pavement restoration, furnishing and placing trench backfill materials, pavement restoration, and testing, complete in place as shown on the plans and as herein specified; and no additional compensation will be allowed therefor.

Bid item noted as "revocable items" may be deleted entirely or in part from the Work at the option of the City. The provisions of Section 9-1.06B, "Increases of More Than 25 Percent", and Section 9-1.06C, "Decreases of More Than 25 Percent", of the Caltrans Standard Specifications shall not apply to such omission, and no compensation will be allowed the Contractor by reason of such omission.

PLAN REVISION(S)

Sheet SS3. Add revocable sewer improvements within Alexander Avenue.

Sheet SS3.1. Add revocable sewer improvements within Alexander Avenue.

Add Sheet SS3.2. Sewer line profiles within Alexander Avenue.

BID SHEET REVISION(S)

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Replace Base Bid Item 12 as follows:

13	SS Gravity Pipe on Private Property (4" or 6" Diameter) (Revocable)	1	LS		
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Add Base Bid Items 14,15, and 16 as follows:

14	Sanitary Sewer Maintenance Manhole (Revocable)	3	EA		
15	SS Gravity Pipe in Alexander Ave (4" or 6" Diameter) (Revocable)	282	LF		
16	Potholing in Alexander Ave (Revocable)	38	EA		

Add Bid Alternate #1 Items 1.9, 1.10, and 1.11 as follows:

1.9	Sanitary Sewer Maintenance Hole (Revocable)	1	EA		
1.10	SS Gravity Pipe in Alexander Ave (4" or 6" Diameter) (Revocable)	(170)	LF		
1.11	Potholing in Alexander Ave (Revocable)	(19)	EA		

CHANGE TO NOTICE OF INVITING BID:

Existing:

- 3. License and Registration Requirements.
 - 3.1 License. This Project requires a valid California contractor's license for the following classification(s): A-General Engineering Contractor.

Revision:

- 3. License and Registration Requirements.
 - 3.1 License. This Project requires a valid California contractor's license for the following classification(s): A-General Engineering Contractor, C42 and C36 licenses.

QUESTIONS AND ANSWERS:

- Q: What is the anticipated date for the Notice to Proceed?
A: We anticipate taking the project for City Council tentatively on Tuesday, July 16, 2024. The Notice to Proceed is anticipated to be sent towards the end of July or early August.
- Q: Since the project does not include connections to the Alexander sewer main, the existing sewer laterals to be removed and/or abandoned have to remain in place. Additionally, pump testing and connection of the new pump station to the existing sewer lateral is not possible. How does the City want to handle?

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A: The design is revised to include a revocable bid item for sewer improvements and connections to the existing sewer main within Alexander Avenue.

Q: At 26, 28, and 30 Alexander, there are three (3) electrical meters and a spare location for a future meter. One pump station will service 26,28, and 30 Alexander. Does the new electrical connection tie into an existing meter or will a new meter be required?

A: Contractor shall coordinate with the owner to provide temporary power and a new PG&E meter for the pump station electrical system.

Q: What is the expectation for the Contractor on staking easements and/or property lines?

A: Contractor will not be responsible for staking easements and/or property lines. This work will be done by the homeowners after the sewer improvements have been made.

Q: Are there easement in place for the bid alternative?

A: Currently, there are no easements in place for the bid alternative. Easements will be handled between property owners.

Q: Who is responsible for notifications?

A: Contractor to be responsible for notification to homeowners as indicated in the specifications.

Q: What is the expectation for the sewer stub-out in Alexander?

A: As previously indicated with the additional of the revocable bid items, the Contractor shall assume the work includes connection to the sewer main. If the City revokes these bid items for sewer main connection in Alexander Ave, then the City will bid these sewer improvements as a separate project and the Contractor shall assume the work will be installed prior to the completion of the Block 303 sewer improvements.

Q: Can the size/diameter of the pump station be reduced given the poor access and site constraints?

A: Reduction of the pump station size/diameter shall be approved by the City on a case-by-case basis depending on access, terrain, and setbacks to site features. Contractor shall provide a deduct for the cost savings of the smaller pump station to the City.

Q: Can the electrical be Sch 80 PVC or does it have to be RMC?

A: As indicated in SMCS D detail SD17, all electrical wiring and installed cabling, conduit and controls shall meet NEC Class 1, Division 2 requirements and conform to the requirements of the City or County.

Q: Where are the anticipated electrical connections?

A: The contractor shall be responsible for coordinating with each homeowner to determine the point of connection for the electrical system.

Q: Sheet SS 5 Detail 1 shows the 2" duplex pump system with both pumps being wye connected to the same discharge line before the check valve and shut off valve. Traditionally, in my experience, each pump should have a dedicated check valve and isolation shut off valve BEFORE they wye together and become a single discharge going out of the vault.

A: This has been duly noted, and purposefully not implemented on the plans.

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Q: Will individual permits for each electrical connection be required? Will our electrician be the one to pull those permits? If so, what is the permit fee?

A: Yes, permits for each electrical connection will be required. The contractor can pull the permit and the City will cover the cost. The City will recover the cost from the homeowner's at a later date.

Q. During the walkthrough it was mentioned that there are pics of the electrical panels. Are these available?

A. Pictures were taken and will be presented to the awarded bidder.

Q. Is the 120-day project length adjustable? Because of the hand labor involved and the difficult access I'm worried that crews will get physically tired, and progress may slow. Also, there is some question of the timing of the actual connections so the final crossover of some of the final plumbing may happen at a later date.

A. Yes, we understand the constraints of the site and the need for hand labor as opposed to heavy equipment. The 120 days can be adjusted at an agreeable timeframe with the awarded contractor.

Attachments to Addendum 1:

- 2024-06-10 Plans
- 2024-06-10 Estimate
- 2024-06-10 Bid Sheet

END OF ADDENDUM NO. 1

**Issued By: City of Sausalito
Ali Iqbal, PE
Project Manager**

ACKNOWLEDGED

Bidder's Signature

A signed copy of this addendum is to be submitted as a part of the bid package for the subject project. Failure to do so may subject the Bidder to Disqualification.