

DOCUMENT 00 90 10
ADDENDUM No. 1



PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Changes to the Bid Schedule (Document 00 41 10).
- B. Changes to the Plans
- C. Clarifications

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as *WU015 – Jefferson 32nd 33rd Orchard WTR*
- B. Date of this Addendum: April 15, 2025

PART 2 CHANGES

2.1 CHANGES TO PRIOR ADDENDA

- A. None

2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Document 00 41 00 (Bid Schedule)
 - 1. Split sewer bypass into two separate items (Madison bypass and Orchard bypass) in Bid Schedule 2
 - 2. Renumbered Bid Schedule 2

2.3 CHANGES TO AGREEMENT AND OTHER CONTRACT FORMS

- A. None

2.4 CHANGES TO CONDITIONS OF THE CONTRACT

- A. None

2.5 CHANGES TO SPECIFICATIONS

- A. None

2.6 CHANGE TO DRAWINGS

- A. Titlesheet visual fix
- B. Sheet W2
 - 1. Adjusted the location of 3292 meter to be on the property.
 - 2. Adjusted 655 service tie-in location to show likely concrete replacement and protecting a mailbox in place.

2.7 CLARIFICATIONS

- A. Question: Can we install a doghouse style manhole on Orchard instead of a traditional

precast manhole? Answer: Bid the project as plans show with a traditional manhole on both Madison and on Orchard, each with its own bypass.

END OF SECTION

DOCUMENT 00 41 10
BID SCHEDULE

PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Bid schedules.
- B. Measurement and payment provisions.

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as:
WU015 - Jefferson 32nd 33rd Orchard WTR

1.3 REFERENCES

- A. APWA 01 29 00: Payment Procedures.
- B. Document 00 50 00: Agreement.

1.4 SCHEDULE TO BE ADDED TO THE AGREEMENT

- A. This document will be added to the Bid and Agreement by reference.

PART 2 BID SCHEDULES

2.1 BASE BID

- A. Bid Schedules No. 1 & No. 2 below describe work basic to the Contract.

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BID SCHEDULE No. 1**Jefferson Ave, 32nd Street, 33rd Street, and Orchard Ave, WU015 -
Jefferson 32nd 33rd Orchard WTR**

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT PRICE	AMOUNT
101	MOBILIZATION	1	LS		
102	TRAFFIC CONTROL	1	LS		
103	SWPP PLAN, CLEANING, DUST CONTROL, WATERING	1	LS		
104	CONSTRUCTION STAKING AND SURVEYING	1	LS		
105	QUALITY ASSURANCE AND TESTING	1	LS		
106	UTILITY INVESTIGATION	20	HRS		
107	REMOVE & REPLACE CURB AND GUTTER	200	LF		
108	REMOVE & REPLACE CONCRETE FLATWORK 6" THICK (6" THICK BASE)	500	SF		
109	REMOVE & REPLACE CONCRETE SIDEWALK 6" THICK (6" THICK BASE)	660	SF		
110	REMOVE & REPLACE CONCRETE WALL LESS THAN 3 FT TALL	25	LF		
111	REMOVE ASPHALT PAVEMENT	5480	SY		
112	REMOVE CONCRETE PAVEMENT	450	SY		
113	REMOVE FIRE HYDRANT	3	EA		
114	REMOVE WATER VALVE BOX	9	EA		
115	MANHOLE - ADJUST TO GRADE & COLLAR	2	EA		
116	DRAINAGE BOX - ADJUST TO GRADE	2	EA		
117	VALVE - ADJUST TO GRADE & COLLAR	20	EA		
118	INSTALL NEW SURVEY MONUMENT	1	EA		
119	APWA SPEC ROADBASE (1" MINUS, 8" THICK) Exc Includ	2575	TONS		
120	3" MINUS PIT RUN (GRANULAR BORROW) Exc Included	2820	TONS		
121	ASPHALT "T" PATCH (HMA SP - 1/2 PG 58-28)	2275	TONS		
122	TEMPORARY ASPHALT PATCH	100	TONS		
123	8" PVC C900 DR-18 PIPE	1510	LF		
124	8" GATE VALVE (CLASS 250)	7	EA		
125	12" DUCTILE IRON CLASS 350 PIPE	1040	LF		
126	12" BUTTERFLY VALVE (CLASS 250)	3	EA		
127	16" DUCTILE IRON CLASS 350 PIPE	500	LF		
128	16" BUTTERFLY VALVE (CLASS 250)	4	EA		
129	24" WELDED STEEL CASING	1	EA		
130	16" WELDED STEEL CASING	1	EA		
131	EXISTING WATER MAIN CONNECTION	6	EA		
132	INSTALL FIRE HYDRANT ASSEMBLY	5	EA		

133	1" AWWA C901 WATER LATERAL	1350	LF		
134	1" WATER METER ASSEMBLY	42	EA		
135	1" GALVANIZED SERVICE TEMPORARY LOOP	7	EA		
136	2" WATER SERVICE INSTALLATION	1	LS		
137	4" WATER SERVICE INSTALLATION	1	LS		
138	CAMERA SEWER LATERALS (PRE & POST CONSTRUCT	1	LS		
139	STRIPING RESTORATION	1	LS		
140	TURF SOD (w/4" Thick Topsoil) LANDSCAPE RESTORATIO	5200	SF		
141	TREE TRIMMING	1	LS		
142	1" COMBO AIR VAC ASSEMBLY	1	EA		
143	2" COMBO AIR VAC ASSEMBLY	1	EA		
144	RECONSTRUCT SEWER LATERAL (4" or 6") w/CLEANOUT	2	EA		
145	RECONSTRUCT SEWER LATERAL (4" or 6") w/out CLEANO	2	EA		

Total = \$ _____

Schedule Total in Words _____

Signature _____

BID SCHEDULE No. 2**Jefferson Ave, 32nd Street, 33rd Street, and Orchard Ave, WU015 -
Jefferson 32nd 33rd Orchard WTR**

ITEM NO.	DESCRIPTION	EST QTY	UNIT	UNIT PRICE	AMOUNT
201	INSTALL PRECAST 5' DIAMETER SANITARY SEWER MANHOLE - REINSTATE CONNECTIONS	2	EA		
202	ORCHARD AVE SANITARY SEWER BYPASS	1	EA		
203	MADISON AVE SANITARY SEWER BYPASS	1	EA		
204	MANHOLE - ADJUST TO GRADE & COLLAR	2	EA		
205	REMOVE MANHOLE	1	EA		
206	APWA SPEC ROADBASE (1" MINUS, 8" THICK) Exc Included	25	TONS		
207	ASPHALT "T" PATCH (HMA SP - 1/2 PG 58-28)	25	TONS		
208	3" MINUS GRANULAR BORROW	190	TONS		

Total = \$ _____

Schedule Total in Words _____

Signature _____

Grand Total (Schedules 1 & 2) = \$ _____

Grand Total (Schedules 1 & 2) in Words _____

Signature _____

PART 3 MEASUREMENTS AND PAYMENT

3.1 GENERAL

- A. See measurement and payment procedures in APWA Section 01 29 00.
- B. ENGINEER will take all measurements and compute all quantities.
- C. CONTRACTOR will verify measurement and quantities.
- D. CONTRACTOR will provide all equipment, workers, and survey crews to assist ENGINEER in making measurements.
- E. Units of measurement are listed above in the bid schedule(s).

3.2 MOBILIZATION, Bid Item No. 101

- A. Measured by lump sum.
- B. Payment covers cost of mobilization, demobilization, installation of temporary facilities and bringing all necessary construction equipment to the site. Payment will be made on a percentage basis as follows.

Percent of Original Contract Amount Earned	Percent of Amount Bid for Mobilization to be Paid
5	40
15	20
40	30
50	10

3.3 TRAFFIC CONTROL, Bid Item No. 102

- A. Measured by lump sum (LS).
- B. Payment covers traffic control plan (accepted by Ogden City), traffic control technician, flaggers (if necessary), temporary pavement markings, signs, barricades, and all traffic control devices (Refer to Section 01 55 26, Traffic Control) meeting MUTCD and Ogden City Standards. The traffic control plan shall be stamped by a Professional Engineer and submitted to both Emergency service and Ogden City's traffic engineer for approval.

3.4 SWPP PLAN, SITE CLEANING, DUST CONTROL, WATERING Bid Item No. 103

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in obtaining coverage and following all requirements of the State of Utah DWQ General Permit for Storm Water Discharges from Construction Activities or the "Construction General Permit" (CGP). Permit No. UTRC000000 found at: <https://lf-public.deq.utah.gov/WebLink/ElectronicFile.aspx?docid=424911&eqdocs=DWQ-2024-004974>. The CONTRACTOR will be listed as an Operator and Ogden City will be listed

as the Owner. Payment covers the CONTRACTOR to meet all requirements of the CGP. Requirements of this permit include, but are not limited to:

- a. Preparation and maintenance of a storm water pollution prevention plan (SWPPP). The SWPPP must be submitted to and approved by City prior to beginning construction.
 - b. Submitting a Notice of Intent (NOI) prior to construction.
 - c. Maintaining active permit coverage throughout all phases of construction. It is the responsibility of the CONTRACTOR to ensure that permit coverage does not expire. Once the site meets the conditions for terminating CGP coverage, the CONTRACTOR must pass a final inspection with the City SWPPP inspector prior to submitting the Notice Of Termination (NOT) to DWQ.
 - d. Installing and maintaining all storm water Best Management Practices (BMPs) in accordance with the approved SWPPP that are not listed as separate bid items, which may include; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary).
 - e. Performing necessary Contractor SWPPP inspections in accordance with the SWPPP.
 - f. Maintaining all required documentation (inspection reports, corrective action reports, SWPPPs, etc.). Ogden City may request documents associated with the project for up to three years from the date the site is finalized.
- C. The CGP outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc.
- D. Payment shall cover dust control/watering of the site, daily maintenance of the construction zone, **daily sweeping at a minimum**, maintaining BMP devices, and maintaining general cleanliness of the site and staging areas during the construction process to the satisfaction of the City. Trenches shall be maintained at all times to avoid ruts larger than a 2-inch depth.
- E. Payment shall cover temporary water meter rental fees billed to the Contractor from the City. Contractor will NOT be billed for water usage for the project but must utilize a meter to obtain City water for the project.

3.5 CONSTRUCTION STAKING AND SURVEYING, Bid Item No. 104

- A. Measured by lump sum (LS).
- B. Payment shall be as a portion of the lump sum price bid and shall include all costs to provide construction surveying and staking for the project including all labor by the Contractor's Surveyor, equipment, materials and supplies necessary to provide survey preparation, control, staking offsets and markers necessary for construction of the water main, roadway, curb & gutter elevations, sidewalk elevations, driveways, and any appurtenances associated with the project.

3.6 QUALITY CONTROL TESTING, Bid Item No. 105

- A. Measurement will be made by lump sum (LS).

- B. Payment shall be for all costs for the Contractor to supply 3rd party testing for quality control/assurance throughout the duration of the project. Testing is to follow Ogden City Standards and be according to APWA Section 01 45 00.
- C. Payment shall include submittals to the ENGINEER before construction and reports to the ENGINEER during construction. Notify Owner (ENGINEER or Inspector) to coordinate location of tests.
- D. Payment shall include testing on all concrete according to APWA Section 03 30 05. Frequency of testing shall be per day of pouring and not per truck.
- E. Payment shall include testing on all asphalt surfaces according to Ogden Standards and Section 32 12 05. Testing protocols shall be used for greater than 1000 tons of asphalt and shall be tested accordingly to the specification.

3.7 UTILITY INVESTIGATION, Bid Item No. 106

- A. Measurement will be made by counting the actual number of hours of work completed by the machine and operator to investigate miscellaneous underground features as required by the ENGINEER (HR). No allowance of time will be made for transporting the backhoe to and from the job site when the backhoe is located on the site of the Contract.
- B. Payment covers furnishing and providing labor and equipment for investigation of existing miscellaneous pipelines, wires and cables, and sub-surface features as **required by the ENGINEER**. ENGINEER must approve time before Contractor is to proceed with any paid utility investigation.

3.8 REMOVE & REPLACE CURB & GUTTER, Bid Item No. 107

- A. Measurement will be made by linear foot (LF), measured along the top back of curb (TBC).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, and testing to replace curb and gutter in accordance with Ogden City Standard Drawing RD-4 (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. Payment includes formwork, joints (at proper depth), expansion, and dowelling into the existing curb and gutter.
- D. Payment includes curb & gutter transitions from type "A" to existing and any special curb and gutter to match existing curb/gutter. Most curb/gutter sections will be "match existing."
- E. Payment includes sealing the concrete with a curing compound.

3.9 REMOVE & REPLACE CONCRETE FLATWORK 6" THICK, Bid Item No. 108

- A. Measurement will be made by square foot (SF) of 6" concrete installed. Removal of any existing concrete in its place is incidental to this item. This item is to cover concrete work for driveway aprons and approaches. Sidewalk behind the apron will be quantified

under *REMOVE & REPLACE SIDEWALK 6" THICK*.

- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor, incidental to the removal and disposal of concrete and base material, placement, compaction, rebar, dowelling, jointing, and testing to install concrete in accordance with Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. Payment also includes expansion joints, compaction, and special formwork and finish work on the driveway for flares and curb cuts/curb forming.
- D. Payment for curb/gutter along the pedestrian ramp will not be included in the square footage.
- E. Payment includes sealing the concrete with a curing compound.

3.10 REMOVE & REPLACE SIDEWALK 6" THICK, Bid Item No. 109

- A. Measured per square foot (SF) of new sidewalk placed. Removal of existing concrete in its place is incidental to this item.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, concrete and testing to remove and replace sidewalk per Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. The location shown on the construction plans is an approximate location, and the exact location and quantity will be determined in the field with approval from the Owner or Owner's representative.
- D. Payment includes sealing the concrete with a curing compound.

3.11 REMOVE & REPLACE CONCRETE WALL LESS THAN 3 FT TALL, Bid Item No. 110

- A. Measurement will be made by linear foot (LF) of wall removed and replaced with new wall (in-kind).
- B. Payment covers the cost of all transportation, equipment, labor, and materials to perform the work in an acceptable manner to the Engineer and homeowner.
- C. Payment includes dowelling into existing, reinforcement, and curing compound applied to the concrete.

3.12 REMOVE ASPHALT PAVEMENT, Bid Item No. 111

- A. Measured by square yard (SY) of asphalt pavement removed.
- B. Remove Asphalt Pavement shall be limited to the locations indicated on the Drawings or as directed by the Engineer. No direct payment shall be made for removal at locations not on the Drawings unless written direction is provided by the Engineer. The unit price named shall include all costs associated with; saw cutting; demolition, removal, and disposal of waste material; and all other work or materials required to complete the work. (Refer to Section 02 41 14, Pavement Removal)

3.13 REMOVE CONCRETE PAVEMENT, Bid Item No. 112

- A. Measured by square yard (SY) of concrete pavement (PCCP) removed.
- B. Remove Concrete Pavement shall be limited to the locations where removal is necessary or as directed by the Engineer. The unit price named shall include all costs associated with: saw cutting; demolition, removal, and disposal of waste material; and all other work or materials required to complete the work. (Refer to Section 02 41 14, Pavement Removal)
- C. Concrete pavement is not visible but anticipated to be present, buried below the asphalt.

3.14 REMOVE FIRE HYDRANT, Bid Item No. 113

- A. Measured by each (EA) fire hydrant assembly removed.
- B. Payment includes removal and disposal of hydrant system including but not limited to hydrant pipe, valve, shoe, and capping of existing 6" supply line in an acceptable manner to Ogden City (hydrant barrel and pipe must be removed beyond the "shoe"). Removal includes the removal of the existing water pipe(s), the existing fire hydrant barrel, and the valve box to the hydrant. SALVAGE existing hydrant at the request of the Ogden City Water Department. Payment also includes cost of excavation, removal, hauling, properly disposing of material, and any required backfilling and backfill work in the void left. Backfill material to be structural imported fill.

3.15 REMOVE WATER VALVE BOX, Bid Item No. 114

- A. Measured per each valve box removed (EA).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, demolition, backfill, patchwork, compaction, disposal, to remove existing water valve boxes as specified by the ENGINEER. (Refer to Section 02 41 13, Selective Site Demolition).

3.16 MANHOLE – ADJUST TO GRADE & COLLAR, Bid Item Nos. 115 & 204

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade with collar installed. Manholes are expected to be lowered for paving, then raised to grade with collar after paving.
- B. Payment covers all tools, labor, materials, and equipment to lower and raise existing structures to be flush with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; including grade rings, removal and disposal of existing materials, concrete collars, concrete seal, fiber mesh additive, labor, and all other appurtenant work not otherwise stipulated to be paid for separately.
- C. Payment covers the required coordination with the Sewer Department for ordering manhole lids for existing sanitary sewer manholes. New manhole covers will NOT be paid for with this item.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.). Concrete must be batched with fibers, and sealed with a curing compound.

3.17 DRAINAGE BOX – ADJUST TO GRADE, Bid Item No. 116

- A. Measurement will be made by actual count per each uncovered/cleaned off and set to grade.
- B. Payment covers all tools, labor, materials, and equipment to raise existing structures to be flush with new grade. Payment shall only be for existing boxes that are buried below asphalt and brought to grade (uncovered, cleaned off).
- C. Payment does NOT include concrete collaring for this item. If concrete is applicable, coordinate installation with the ENGINEER.

3.18 VALVE – ADJUST TO GRADE & COLLAR, Bid Item No. 117

- A. Measurement will be made by per each installed valve (EA)/adjusted to finish grade with collar installed. Valves are expected to be lowered for paving, then raised to grade with collar after paving.
- B. Payment covers all tools, labor, materials, and equipment to lower and raise existing structures to be flush (slightly lower by ¼”) with new grade as shown on Drawings. Payment covers all costs associated with raising/lowering the existing structure; removal and disposal of existing materials, concrete collars, concrete seal, labor, and all other appurtenant work not otherwise stipulated to be paid for separately.
- C. Valve cans shall be clear of any concrete debris or silting inside and must be centered, and cleaned around the nut of the valve to be accepted.
- D. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.) with fiber reinforcement in the batch. All concrete is to be sealed with a curing compound after concrete sets.
- E. All valve collars shall be stamped for valve identification with size and arrow. Hydrant valves shall be stamped with an “H”.

3.19 INSTALL NEW SURVEY MONUMENT, Bid Item No. 118

- A. Measurement will be made by actual count per each installed (EA)/adjusted to finish grade or each collar installed.
- B. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.). Concrete must be sealed and batched with fibers.
- C. Payment includes all work to cut out hole, furnish and install new concrete cylinder with brass, cover, and pour new collar around the cover to Ogden City Standards. Also includes all backfill material (sewer rock, fabric) as shown as part of the details
- D. Brass will be supplied by the Ogden City Surveyor.

3.21 APWA SPEC ROADBASE (1” MINUS) Exc Included, Bid Item Nos. 119 & 206

- A. Measurement will be made by tons (TONS) of untreated base course placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, aggregate base course,

labor, hauling, placement, and compaction to produce an acceptably deep aggregate base course layer per Ogden City Standard Drawings RD-3 and project plan specified thickness. Payment covers the cost of installing the full thickness of aggregate base course layer and preparation for pavement installation. (Refer to Section 33 05 25, Pavement Restoration).

- C. Payment covers the cost of all excavation, removal/disposal of existing, and all grading/compaction to finish grade before concrete pour and/or before asphalt paving.
- D. No payment will be made for aggregate base course purchased and installed as a temporary construction measure.
- E. Aggregate base course shall be untreated. No recycled roadbase (or any recycled material) will be accepted for roadbase on the project.
- F. State spec roadbase is acceptable.

3.22 3" MINUS PIT RUN (Granular Borrow) Exc Included, Bid Item Nos. 120 & 208

- A. Measurement will be made by tons (TONS) of 3" Minus structural fill placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, granular borrow, labor, hauling, placement, and compaction to produce an acceptably deep structural fill layer per Ogden City Standard Drawings RD-3 and project plan specified thickness. Payment covers the cost of installing the full thickness of granular borrow layer and preparation for roadbase installation.
- C. Payment covers the cost of all excavation, removal/disposal of existing.
- D. Material shall meet APWA 31 05 13 specification for Granular Borrow, be angular aggregate that meets AASHTO A-1-a Classification (must be certified as A-1-a), and have particle diameter size no larger than 3 inches.

3.23 ASPHALT "T" PATCH (HMA SP ½ PG 58-28), Bid Item Nos. 121 & 207

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications. Asphalt shall be Class II per Section 32 12 15.
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat equipment, labor, hauling, placement, and compaction to produce an acceptably deep excavation asphalt "T" patch per Ogden City Standard Drawing RD-3. Payment covers the cost of installing the full thickness of hot-mixed, hot laid asphalt concrete pavement (with no more than 15% recycled asphalt content). (Refer to Section 32 12 15 Bituminous Concrete)
- C. Payment also covers the costs of final sawcutting, "scratching" out the trench and general prep work prior to paving.
- D. Thickness will vary, but will be existing depth plus 1 inch, no thicker than 7 inches.
- E. Payment includes at minimum three (3) mobilizations for paving to meet work restrictions as specified in Section 01 14 00. Madison Avenue and 33rd (from Jefferson Thru Orchard). Orchard and Jefferson should not be down simultaneously.

3.25 TEMPORARY ASPHALT PATCH (HMA,ONE LIFT), Bid Item No. 122

- A. Measurement will be made by tons (TONS) of HMA placed as a temporary measure.
- B. Payment covers the cost of furnishing all necessary materials, labor, and ground prep to temporarily pave the surface for traffic to traverse.
- C. Work may be self performed or subcontracted out.

3.26 8" PVC C900 DR-18 PIPE, Bid Item No. 123

12" DUCTILE IRON CLASS 350 PIPE, Bid Item No. 125

16" DUCTILE IRON CLASS 350 PIPE, Bid Item No. 127

- A. Measurement shall be made per linear foot (LF) of water line installed as measured from connection point to connection point along the centerline of the pipeline.
- B. Payment shall be made at the linear foot price bid and shall include all material, labor, tools, and equipment to coordinate construction, install water line including shoring or stabilization, de-watering, and dust control following all water line trench standards per plan W-18.
 - 1. Payment covers the cost of incidental work such as potholing, fittings, couplings, joint lubricants, gaskets, jackhammer work; underground line marking tape; landscape replacement if damaged by CONTRACTOR'S operations; restoration of all utilities damaged as a result of operations; site dewatering; water main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the water line.
 - 2. Furnishing and installing DI bends, crosses, tees, and fittings identified on the construction drawings except those specifically listed in other bid items; plugging of existing pipes as required on the plans, etc.,
 - 3. Polywrap all Ductile fittings & valves with 8 Mil Polyethylene sheet and Tape Wrap.
 - 4. All costs for concrete thrust blocks, including fabric wrapping to protect bolts and followers from the concrete. Install the concrete thrust blocking with the minimum bearing surface indicated in the project plans.
 - 5. Provide and install all MEGA-LUG followers, pipe joint restraints as labeled in the plans, or approved equal on all fittings, tees, and bends, all costs for the labor and equipment to saw cut the pipe for connections as required.
 - 6. All pipe shall have 12 ga. insulated tracing wire installed with the pipe. Tracing wires shall terminate in Snakepit tracer box style (CD14BTor approved equal) according to Ogden City Standard W-1B. All snakepit termination points and all water main end points shall be properly grounded by splicing into a magnesium tracer wire grounding rod. Marking tape shall also be installed with the pipe per Ogden City Standards.
 - i. All splices shall use locking connectors and NOT wire nut direct buy splice kits.
 - ii. All service tracer wire connections shall utilize mainline to service connectors without cuts to the tracer wire.
 - 7. Cost to clean the interior of the line by sweeping and/or spraying to remove any accumulated debris, sand or foreign materials prior to the installation of the pipe in the trench. Payment includes the cost to pressure test the line, perform bacteria tests

on the line, disinfect the line and flush the line (Bacteriological sample costs will NOT be billed to the Contractor unless Contractor fails 2 or more tests). Payment includes all costs associated with dust control including evenings and weekends between 7:00 am and 9:00 pm, or as required by the City Engineer.

- C. Payment shall include all trenching costs associated with this item including all import pipe bedding (3/8" minus sand and placement), and compaction. Payment includes all excavation and removal of material for installation of the pipe. Sand bedding shall be placed a minimum of 6 inches below the bottom of pipe and 12 inches above the top of pipe with 12 inches on each side of pipe bedded and haunched according to pipe manufacturers' recommendations and Ogden City Standards. Material placed as backfill above the pipe bedding material shall be APWA 3" Minus Granular Backfill Borrow (separate bid item) or better.
- D. Payment shall include all vertical loops and fittings as shown in the plans.

3.27 8" GATE VALVE CLASS 250, Bid Item No. 124
12" BUTTERFLY VALVE CLASS 250, Bid Item No. 126
16" BUTTERFLY VALVE CLASS 250, Bid Item No. 128

- A. Measurement will be made by actual count per each EA valve installed.
- B. Payment covers the cost of excavation, foundation preparation, restraint devices, cast iron slip-type valve boxes per Ogden City Standards and project plan details. Payment covers traffic lids, valve, backfill labor, backfill material, and other miscellaneous devices, materials, or equipment required for a complete installation. Ogden City's Water Department Approved Materials List should be consulted for acceptable valve types. (Refer to Section 33 12 16, Water Valves).
- C. Valves shall be greased (bolts) and fully wrapped up to the nut. Documentation of wrapped valve is required prior to backfill.
- D. Payment covers any necessary adaptors/spacers between the valve and cross that may be necessary to avoid conflicts with the cross and the gear box.

3.28 24" WELDED STEEL CASING, Bid Item No. 129
16" WELDED STEEL CASING, Bid Item No. 130

- A. Measurement will be made by actual count per each (EA) installed.
- B. Payment covers the cost of furnishing materials, equipment, and labor to install casing(s) as called out in the plans with end seals and insulation (spacers).
- C. Payment includes furnishing and installing flowfill backfill between casing and crossing utilities (storm and sanitary).

3.29 EXISTING WATER MAIN CONNECTION, Bid Item No. 131

- A. Measurement shall be made per each (EA) connection made to the existing water main. No additional payment will be made for additional connections due to contractor phasing of construction requiring connections from new main to new main.

- B. Payment shall be made at the unit price bid and shall include all labor, materials, tools, and equipment to furnish and install the fittings necessary to complete the connection between the existing pipe and the new pipe. Payment includes all costs to locate and excavate the existing water main and connect the new C-900 DR18 to the existing main as shown on the plans. Payment includes removal of up to 30 feet of the existing pipe, if required, to make the connection with the existing pipes including looping the new C-900 DR18 pipe to match the elevation of the existing waterline, prepare the ends of the pipe and to remove and legally dispose of the removed pipe and fittings.
- C. Contractor is responsible to pothole and verify the pipe depth, material and size of existing waterlines prior to ordering parts and fittings. Payment includes all costs to furnish and install sleeve connections with MEGA-LUG followers or approved equal on the mechanical joint ends and all costs for required concrete thrust blocks.
- D. Payment includes all costs to coordinate with the Ogden City Water Department for all water shutdowns necessary for installation of the complete connection. Payment includes 48-hour advance written notifications to all residents affected by any water service interruption. Payment includes costs for excavation, backfill and compaction, compaction testing, blue staking, potholing, legal waste disposal, all landscaping related and sod restoration not covered under other items, and plugging and blocking the end of the mains to be abandoned, and all associated work items required to complete this bid item. Total length of pipe for connection shall not exceed 20 feet.
- E. Payment includes all connection pieces to be properly swabbed and disinfected with chlorine.
- F. Payment shall be made at the unit price bid and shall include all costs to remove the existing pipe, saw-cut, remove, and legally dispose of pipe waste materials; plugging of existing pipes as required on the plans; provide trench excavation with legal disposal of excavated waste materials, shoring or stabilization, and de-watering; excavate existing excess material.

3.30 INSTALL FIRE HYDRANT ASSEMBLY, Bid Item No. 132

- A. Measurement will be made by actual count per each (EA) installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, installing the new fire hydrant with surface coatings and fittings, 6-inch ductile iron supply main piping (and bedding) and any required bends/loops around existing utilities, connection of the new fire hydrant to new water main with ductile iron pipe with exterior of pipe tape wrapped; gate valves with cast iron slip-type valve boxes, traffic lids, miscellaneous tees, sleeves, bends, gaskets, bolts, nuts; approved joint restraining devices; greasing and wrapping all exposed fittings, bolts and nuts; pipeline dewatering; concrete thrust restraints; concrete box repair, painting and other miscellaneous devices; snake pit boxes with tracer wire, collars; and all other materials/labor necessary to install new fire hydrant assembly according to Ogden City Standard Drawings W-1A, W-1B, & W-2.
- C. Payment includes painting the fire hydrant barrel safety yellow and the caps/bonnet the color determined from a flow test performed by the water department after paving is completed. Bonnet/caps color is expected to be Jay Blue (Refer to Section 33 12 19 SP Hydrants for more details).

3.31 1" AWWA C901 WATER LATERAL, Bid Item No. 133

- A. Measurement will be made by linear foot (LF) of service line installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, import pipe bedding (material and placement), backfilling, and, disturbed concrete repair and disposal, the new water lateral CTS Poly piping (AWWA C901), tracer wire, connection of the new water lateral to new water main, connection of the new water lateral to the servicing meter, connection of the new meter to the property side service connection, furnishing and installing any necessary adaptors/reducers, existing removal or abandonment and disposal of the existing water pipe(s), disinfection and commissioning pipeline; and other work incidental to the installation of the water lateral. It is preferred that boring/pulling of the water lateral occur before open trench excavation is used. However, all excavation, bedding material (i.e. sand), placement, backfilling placement (material under separate bid item), compaction (in 8" max lifts), will be paid for under this bid item. (Refer to Section 33 12 33, Water Meter).

3.32 1" WATER METER ASSEMBLY, Bid Item No. 134

- A. Measurement will be made by actual count per each installed (EA).
- B. Payment covers the cost of excavation, potholing, and new meter setter materials (sand fill compacted) and devices; acquisition and installation of new Raven meter box, ring & cover, removal and disposal of existing meter assembly and meter box, extension of the service lateral from the new meter to the old meter location, connection of the new water lateral to the servicing meter in-line with the existing service connections, removal or abandonment of the existing water lateral tubing, disinfection and commissioning of the lateral; and other miscellaneous devices, materials, or equipment required for a complete installation; all in accordance with Ogden City Standard Drawing W-3. Note, most existing meters are 5/8" or 3/4". Payment includes the necessary adaptors to connect the new 1" line to the existing meter and piping/materials necessary to connect to the house side of the meter assembly. Ogden City's Water Department Approved Materials List should be consulted for acceptable equipment types. (Refer to Section 33 12 33, Water Meter),
- C. Payment covers the labor and tools necessary to install water meter "buttons" on the face of curb (adhesive and buttons will be provided by the Water Department).
- D. Payment covers furnishing and installing the necessary service saddle and associated tap. Service saddles shall be nylon coated with double stainless steel straps
- E. Payment covers installing the appropriate corp stop supplied by Ogden City.

3.33 1" GALVANIZED SERVICE TEMPORARY LOOP, Bid Item No. 135

- A. Measurement will be made by each (EA) of service line looped.
- B. Payment covers the cost of furnishing all materials, labor, transportation, and equipment necessary to temporarily loop existing galvanized service lines that conflict with installation of new water main or that are leaky.

- C. Payment covers all flushing costs and individual shutdown costs including prep such as excavation and valve shutoff to the home and notifications of shutdown. Contractor will be required to coordinate shutdown with Ogden City Water Division and each impacted homeowner.
- D. Payment for earthwork materials (backfill, UTBC, HMA) shall be covered under other pay items.

3.34 2" WATER SERVICE INSTALLATION, Bid Item No. 136

- A. Measurement will be made by lump sum (LS).
- B. Payment covers all labor, materials, equipment, transportation, and other items associated with installing a new 2" service with AWWA C901 poly pipe with tracer wire.
- C. Payment includes all tapping materials (such as saddle, corp stop), valve box/lid, excavation/disposal, removal of existing service line, bedding material, compaction, disinfecting/sampling, connection to the existing meter.
- D. Payment does not include any modifications to the meter assembly itself.

3.35 4" WATER SERVICE INSTALLATION, Bid Item No. 137

- A. Measurement will be made by lump sum (LS).
- B. Payment covers all labor, materials, equipment, transportation, and other items associated with installing a new 4" service with AWWA C900 pvc pipe with tracer wire.
- C. Payment includes all service materials (such as pipe, fittings, and class 250 gate valve), valve box/lid, excavation/disposal, removal of existing service line, bedding material, compaction, disinfecting/sampling, connection to the existing meter. All connection materials such as reducers, and couplings are included as part of payment. Existing meter is a 3 inch meter.

3.36 CAMERA SEWER LATERALS (PRE & POST CONSTRUCTION), Bid Item No. 138

- A. Measurement will be made by lump sum (LS) for the project sewer laterals for the entire project (both sides of road).
- B. Payment covers all labor, materials, equipment, transportation, and other items associated with the video inspection and locating of the existing and/or new sewer lines and laterals within the project limits prior to construction of the water line components and again prior to paving to verify that no settlement or damage has occurred as a result of construction.
- C. Video submittals will be provided to Ogden City prior to construction of the water line and again prior to construction of the asphalt pavement.
- D. Video footage along the main is considered incidental to camera footage in the laterals.
- E. Ogden City Sewer crews will assist with accessibility and will have the sewer main cleaned prior to video footage.

3.37 STRIPING RESTORATION, Bid Item No. 139

- A. Measurement will be made by lump sum (LS).
- B. Payment covers the cost of furnishing all necessary materials, labor, and transportation to restripe the roadway after patching/paving is completed. All impacted striping shall be restored as shown in the plans.
- C. Payment covers any temporary measures required (i.e. traffic control, tabbing) to delineate striping between paving and striping.
- D. Minimal striping is anticipated.

3.38 TURF SOD (w/4" THICK TOPSOIL) LANDSCAPE RESTORATION, Bid Item 140

- A. Measurement will be made by square feet (SF) of sod placed as a landscape restoration measure.
- B. Payment covers all preparation required to install sod along areas impacted from construction including excavation, sod cutting (a sod cutting tool is required on all edges), grading, and 4" minimum topsoil.
- C. Payment includes all necessary labor, tools, materials to install sod in all grassy areas impacted from construction (utilities and concrete work).
- D. Restoration of all damaged sprinklers will be considered incidental to this item.
- E. Contractor is expected to keep the new sod watered for at minimum 2 weeks to help the sod "take" root.

3.40 TREE TRIMMING, Bid Item No. 141

- A. Measurement will be made by lump sum (LS).
- B. Payment covers the cost of furnishing all necessary materials, labor, equipment and transportation required to sufficiently trim all tree limbs that will conflict either detoured traffic or construction equipment during the duration of the project.
- C. Payment covers cost to clean up and dispose (to a dump site) any tree limbs cut/removed.
- D. Work must be subcontracted out to a licensed/certified arborist. This work is expected to be completed at the beginning of the project. Coordinate all City tree requirements with the Ogden City Urban Forester Damien Reeves.

3.41 1" COMBO AIR VAC ASSEMBLY, Bid Item No. 142

2" COMBO AIR VAC ASSEMBLY, Bid Item No. 143

- A. Measurement will be made by actual count per each installed (EA).
- B. Payment covers the cost of excavation, foundation preparation, restraint devices, manhole (5' diameter, flat top), saddle, combination air valve, bollards, concrete pad, security box, piping, fittings, mesh screen, venting, backfill, and other miscellaneous devices, materials, and equipment required for a complete installation as shown on the plans and according to Ogden City Engineering Standard Drawing W-14A and W-14B. Ogden City's Water Department Approved Materials List should be consulted for

acceptable equipment types. (Refer to Section 33 11 00, Water Distribution and Transmission). Manhole vault shall be sealed off from silting in.

3.42 RECONSTRUCT SEWER LATERAL w/CLEANOUT, Bid Item No. 144

- A. Measured as a per each (EA) sewer lateral reconstructed/lowered as shown in the plans.
- B. Payment shall cover the costs for all labor, materials, and transportation required to remove existing sewer lateral and construct new lateral at acceptable slope lower with all necessary fittings, couplings, and SDR-30 PVC sewer pipe matching existing size (either 6" or 4").
- C. Payment shall include all excavation/removal, dewatering and all new import sewer rock to bed the new lateral.
- D. Payment includes concrete "cradle" over sewer lateral below the water main trench for added protection.
- E. Payment includes furnishing and installing a sewer cleanout with Christy box.

3.43 RECONSTRUCT SEWER LATERAL w/CLEANOUT, Bid Item No. 145

- A. Measured as a per each (EA) sewer lateral reconstructed/lowered as shown in the plans.
- B. Payment shall cover the costs for all labor, materials, and transportation required to remove existing sewer lateral and construct new lateral at acceptable slope lower with all necessary fittings, couplings, and SDR-30 PVC sewer pipe matching existing size (either 6" or 4").
- C. Payment includes concrete "cradle" over sewer lateral below the water main trench for added protection.
- D. Payment shall include all excavation/removal, dewatering and all new import sewer rock to bed the new lateral.

3.44 INSTALL PRECAST 5' DIAMETER SANITARY SEWER MANHOLE – REINSTATE CONNECTIONS, Bid Item No. 201

- A. Measurement will be made by each (EA) manhole assembly installed and in service to the sewer system.
- B. Payment covers the cost of furnishing all necessary materials, labor, equipment and transportation required to sufficiently install precast manhole and connect to existing sewer mains (including boots, fittings, and grouting). Removal of existing pipe is considered incidental.
- C. Payment includes all excavation and bedding. Manholes are required to be bedded in APWA roadbase unless groundwater is present. If groundwater is present, sewer rock/fabric is acceptable only under the direction of the ENGINEER.
- D. Payment covers furnishing and installing the proper frame and cover with the Ogden

City crest and labeled sanitary sewer.

3.45 ORCHARD AVE SANITARY SEWER BYPASS, Bid Item No. 202

MADISON AVE SANITARY SEWER BYPASS, Bid Item No. 203

- A. Measured as a per each (EA) item for bypass on the project.
- B. Payment shall cover the costs for all labor, materials, transportation, and other items associated with bypass pumping, including but not limited to:
 - 1. Performing all operations required to bypass pump wastewater around a manhole or sewer section in which work is to be performed.
 - 2. Furnishing and installing all equipment necessary to accomplish bypass pumping.
- C. Bypass pumping will only be used if deemed essential for construction to take place.

3.46 REMOVE MANHOLE, Bid Item No. 205

- A. Measured as a per each (EA) manhole structure removed on the project.
- B. Payment shall cover the costs for all labor, materials, transportation, and other items associated with removing and properly disposing of the existing manhole structure including disconnecting it from system.

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