

SECTION 00 90 20 ADDENDUM No. 2

PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Changes to Document 00 41 10 Bid Schedule

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as 22nd St Harrison to Fillmore Storm Project
- B. Date of this Addendum is March 22nd, 2022

PART 2 CHANGES

2.1 CHANGES TO PRIOR ADDENDA

- A. None

2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Bid Item No. 27 – Asphalt Restoration and Patching
 - 1. Bid Schedule 1 Bid Item Description Changed to Asphalt Restoration and "T" Patch (HMA DM 1/2" PG 58-28)
 - 2. Measurements and Payment for Bid Item No.27 revised and updated
 - i. Removed the verbiage,
 - a. “Measurement shall be by TON (TN).
 - b. Payment shall be full compensation for all the labor, equipment and materials to furnish and install the hot mix asphalt pavement (HMA PG 58-28).
 - c. Payment includes the following work and items; Sawcut the edge of asphalt to achieve a smooth, clean edge; Apply tack coat; Place and compact the hot mix asphalt (HMA) in lifts and thickness per Ogden City Standard; Provide dust control and daily cleanup; and complete all other items and operations necessary for restoration of asphalt pavement.
 - d. Includes the sawcutting and asphalt installed for deep excavation “T” patch per Ogden City Standards RD-3; and the 2’ wide minimum asphalt patch along the lip of new curb and gutter installed (width may increase as specified by the Engineer)”
 - ii. Added the verbiage,
 - a. “Measurement will be made by tons (TN) of HMA DM ½” PG 58-28 placed.



- 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 33 05 25, Pavement Restoration)
- c. Payment also covers street striping & symbols returned to existing conditions on patched asphalt.
- d. Payment also covers the costs of final sawcutting, “scratching” out the trench and general prep work prior to paving. Anticipated final trench width for milling or sawcut is 4 feet wide.
- e. Includes the 2’ wide minimum asphalt patch along the lip of new curb and gutter installed (width may increase as specified by the Engineer)”

B. Bid Schedule Summary Sheet added

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 CHANGES TO DRAWINGS

A. None

2.7 CLARIFICATIONS

- A. The Bid Schedule Summary Sheet was added because the final bid amount read and recorded during the bid opening will be the total bid schedule amount of bid schedule 1 plus bid schedule 2.
- B. The previous measure and payment for the asphalt patching item did not clarify the DM aggregate size to use. The DM size to use for this asphalt mix is ½”.
 - 1. Also added to the measure and payment was street striping & symbols returned to existing conditions on patched asphalt. This does not apply to the school crosswalks at the intersection of 21st St and Taylor Ave since those school crosswalks are being abandoned.

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:
22nd St Harrison to Fillmore Storm Project

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 GENERAL

- A. Based upon Bidder's own estimate of quantities and costs and in accordance with paragraph 2.5B.3 of the General Conditions (**Document 00 72 00**), Bidder submits quantities and prices of items aggregating the Contract Price. The following articles summarize the quantities and prices. Bidder will provide additional breakdown when OWNER is considering Bidder's bid or authorizing future pay requests.

2.1 BASE BID

- A. Bid Schedule No. 1 below describes storm utility, roadway, curb and other work basic to the Contract.
- B. Bid Schedule No. 2 below describes the water utility work basic to the Contract

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BID SCHEDULE No. 1

22nd St Harrison to Fillmore Storm Project

Storm Items

Item #	Description	Unit	Bid Quantity	Unit Price	Contract Amount
1	Mobilization	LS	1		
2	Traffic Control	LS	1		
3	Survey	LS	1		
4	SWPPPP	LS	1		
5	Remove Curb and Gutter	LF	1500		
6	Remove Sidewalk/ Concrete Flatwork	SF	1540		
7	Remove Storm Catch Basin	EA	7		
8	Remove Storm Manhole	EA	10		
9	Remove Dipstone Junction Box	EA	20		
10	Retrofit Storm Catch Basin Grate and Curb	EA	4		
11	Remove Asphalt Pavement	SY	7010		
12	Remove and Reinstall Sign and Post	EA	17		
13	Remove Dipstone Storm Pipe	LF	570		
14	Furnish and Install 15" RCP Class III	LF	1260		
15	Furnish and Install 18" RCP Class III	LF	175		
16	Furnish and Install 24" RCP Class III	LF	780		
17	Remove Pipe and Replace with 30" RCP Class III	LF	1865		
18	Remove Pipe and Replace with 24" RCP Class III	LF	1510		
19	Remove Pipe and Replace with 18" RCP Class III	LF	220		
20	APWA Spec Road Base 1" minus	TON	3560		
21	Furnish and Install 2'x3' Curb Inlet Catch Basin	EA	21		
22	Furnish and Install 2.5'x4' Curb Inlet Catch Basin	EA	14		
23	Furnish and Install Combo Box	EA	3		
24	Furnish and Install 6ft Storm Drain Manhole	EA	18		
25	Furnish and Install 7ft Storm Drain Manhole	EA	1		
26	Raise and Collar Existing Manhole	EA	1		
27	Asphalt Restoration and "T" Patch (HMA DM 1/2" PG 58-28)	TON	3080		
28	Landscape Restoration	SF	10520		
29	Type A Curb and Gutter	LF	2630		
30	Install Concrete Sidewalk/Flatwork 4" Thick	SF	1520		
31	Install Concrete Sidewalk/Flatwork 6" Thick	SF	1110		
32	ADA Pedestrian Dectectible Warning Surface	EA	14		
33	Waterline Loop 6" Ductile Iron	EA	2		
34	Waterline Loop 8" Ductile Iron	EA	1		
35	Waterline Loop 12" Ductile Iron	EA	1		
36	Remove City Monument	EA	3		
37	Install City Monument	EA	3		
Bid Schedule 1 Total					

Total = \$ _____

Schedule Total in Words _____

Signature _____

BID SCHEDULE No. 2

22nd St Harrison to Fillmore Storm Project

Water Items

Item #	Description	Unit	Bid Quantity	Unit Price	Contract Amount
201	8" PVC C900 DR 18 Pipe	LF	627		
202	8" Gate Valve (Class 250)	EA	5		
203	Connect to Existing Water Main	EA	4		
204	Furnish and Install Fire Hydrant Assembly	EA	3		
205	Remove and Salvage Fire Hydrant Assembly	EA	2		
206	1" AWWA C901 Poly Water Lateral	LF	176		
207	1" Water Meter Assembly	EA	7		
208	Remove Existing Water Valve Box	EA	4		
Bid Schedule 2 Total					

Total = \$ _____

Schedule Total in Words _____

Signature _____

Bid Schedule Summary Sheet

Total Bid Schedule No. 1 = \$ _____

Schedule Total in Words _____

Total Bid Schedule No. 2 = \$ _____

Schedule Total in Words _____

Total Bid (Bid Schedule 1&2) = \$ _____

Bid Total 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. 1

- A. Measurement and Payment for this item shall be by lump sum (LS)
- B. Payment shall be made at the lump sum price and shall include all costs for mobilization and demobilization; including but not limited to temporary facilities, modifying and maintaining project identification signs, movement of equipment, traffic control, coordination with all the agencies/entities having jurisdiction, utility companies and affected property owners and all necessary permits from Ogden City and other applicable entities.
- C. Payment will be made on a percentage basis per the table below

PAY FACTORS FOR MOBILIZATION, TRAFFIC CONTROL, AND TEMPORARY FACILITIES	
Percent of Original Contract Amount Earned Not Including Materials Purchased	Percent of Amount Bid for Mobilization/TC to be Paid
5	40
15	20
40	30
50	10

3.3 TRAFFIC CONTROL, Bid Item No. 2

- A. Measured by lump sum (LS).
- B. Payment includes all costs incidental to traffic control as specified in specification 01 55 26M. Payment will be made on a percentage basis as listed in the same table used for mobilization above. Traffic Control plan is to be design by a licensed engineer and must be submitted to Ogden City for approval. Contractor shall also be responsible for any changes or other maintenance throughout the duration of this project.
- C. Traffic control plan within 10 days of receiving the Notice of Intent to Award. A traffic control plan must be approved and stamped by an engineer before a right of way permit is issued.

3.4 SURVEY, Bid Item No. 3

- 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 line system, curb & gutter elevations, sidewalk elevations, driveways, ped ramps, roadway, and appurtenances associated with the project.

3.5 SWPPP, Bid Item No. 4

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in providing and maintaining a storm water pollution prevention plan as outlined by the State of Utah DWQ. Permit No. UTR090000 found at: <https://documents.deq.utah.gov/water-quality/stormwater/updes/DWQ-2020-005275.pdf> which outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc. The CONTRACTOR will be listed as an operator along with Ogden City. Payment also covers all erosion control that is not listed as separate bid items, which includes; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary).
- C. Payment shall cover dust control/watering of the site, daily maintenance of the construction zone, **daily sweeping**, 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.
- D. 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.

3.6 REMOVE CURB AND GUTTER, Bid Item No. 5

- A. Measured by linear foot along the lip of gutter (LF).
- B. Payment includes all costs and equipment incidental to the removal and disposal of concrete curb and gutter and native base material to the depth necessary for proposed roadway installation. Includes necessary fill to bring up to grade or as directed by the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

3.7 REMOVE SIDEWALK / CONCRETE FLATWORK, Bid Item No. 6

- A. Measured by square foot (SF).
- B. Payment includes all costs and equipment incidental to the removal and disposal of all 4"-6" thick concrete flatwork and native base material. Includes necessary fill to bring up to grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

3.8 REMOVE STORM CATCH BASIN/MANHOLE/JUNCTION BOX/INLET, Bid Items No.7-9

- A. Measured by each structure (EA).
- B. Payment includes all costs and equipment incidental to catch basin/manhole/junction box/inlet removal and disposal. Includes any necessary approved backfill to the necessary grade under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

3.9 RETROFIT STORM CATCH BASIN GRATE AND CURB, Bid Item No. 10

- A. Measured by each structure (EA).
- B. Payment includes all costs for labor, materials, tools and equipment to remove existing catch basin lid including the grate, frame and any concrete lid; Furnish and install a new concrete lid, grate and frame with adjustable cub box as seen in Ogden Standards sheet SD-2.
- C. The Existing concrete catch basin box will remain in place and be reused.
- D. Payment includes raise and collar of structure to finish grade.

3.10 REMOVE ASPHALT PAVEMENT, Bid Item No. 11

- A. Measured by square yard of asphalt pavement removed (SY).
- B. Payment covers saw cutting pavements and necessary work to remove, haul, and dispose of all asphalt pavement in the existing roadway. Payment covers the cost of furnishing all necessary equipment, labor, hauling, and compaction.
- C. On-site pothole information at reveals the asphalt thickness average is approximately 7” thick

3.11 REMOVE AND REINSTALL SIGN AND POST, Bid Item No.12

- A. Measured per each sign and post system removal (EA).
- B. Payment includes the removal of sign, post and foundation. Includes all work incidental to the reinstallation and placement of the sign per Ogden City Engineering Standards (See Drawing RD-9).

3.12 REMOVE STORM PIPE, Bid Item No.13

- A. Measurement shall be made per linear foot (LF) basis, measured in the field, to the nearest foot. Unless indicated otherwise, measurement to be along the pipe from the inside face to inside face of manholes or other structures, or to the end of the pipe where no structure exists.
- B. Payment shall be made at the linear foot price and shall include all costs for labor, tools, materials, and equipment involved in excavating, removing, hauling and disposing of the existing storm drainpipe as shown on the drawings. Payment also includes excavation; supplying, installing, and compacting import granular backfill (APWA- 2” Minus Granular Fill Borrow) to the bottom of the untreated base course level, and restoring any adjacent facilities disturbed by construction activities associated with this item.
- C. Does not include the removal and replacement of pipe in the same trench. This will be covered in a different item.

3.13 INSTALL REINFORCED CONCRETE PIPE, CLASS III, Bid Items No.14-16

- A. Measurement will be made from structure to structure along centerline of pipe per linear foot (LF).
- B. Payment covers the cost of the size and type of pipe indicated, with installation per APWA Plan No. 381 and surface restoration not identified as separate pay items in the price schedule. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants; selective clearing and tree removal; removal and disposal of interfering structures and obstructions; concrete rings, frame and lid as applicable; grout; jackhammer work; trench shoring or trench boxes as applicable; underground detectable locator tape markers; cleaning of invert covers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; pipe line cleaning; main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the pipe.
- C. Payment shall include all costs to furnish and stockpile the import bedding and pipe zone material stockpile and import backfill materials (APWA- 2" Minus Granular Fill Borrow); excavate the trench; excavation for bells; place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, and dewatering. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Trench width must be a minimum of 4' wide, and must meet pipe zone width recommended by the manufacturer of the pipe. Pipe bedding and pipe zone material shall be placed a minimum of six inches below the pipe and up to spring line of the pipe per Ogden City Standards Plan SD-6. The import granular backfill borrow shall be placed directly above the import pipe bedding and pipe zone material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.
- D. Payment covers the cost of quality control and all testing as required by APWA 01 45 00 and the Ogden City Standards for City Projects. Includes testing by a third party of all earthwork compaction, and concrete testing as outlined in APWA and Ogden City Standards
- E. Storm drain line must be video inspected prior to acceptance by the City.

3.14 REMOVE AND REPLACE REINFORCED CONCRETE PIPE, CLASS III, Bid Items No.17-19

- A. Measurement will be made from structure to structure along centerline of pipe per linear foot (LF).
- B. Includes the storm pipe that is removed and replaced within the same trench.
- C. Payment covers the cost of the size and type of pipe indicated, with installation per APWA Plan No. 381 and surface restoration not identified as separate pay items in the price schedule. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants; selective clearing and tree removal; removal and disposal of interfering structures and obstructions; concrete rings, frame and lid as applicable; grout; jackhammer work; trench shoring or trench boxes as applicable; underground detectable locator tape markers; cleaning of invert covers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; pipe line cleaning; main repair or replacement if damaged by CONTRACTOR; and similar work to complete the installation of the pipe.
- D. Payment shall include all costs, labor, equipment and materials to excavate the trench; remove, haul, and dispose the existing storm pipe, excavation for bells; all costs to furnish and stockpile the import bedding and pipe zone material stockpile and import backfill materials (APWA - 2" Minus Granular Fill Borrow); place, shape, compact and prepare the material around the pipe, provide compaction and gradation tests, provide certified scale tickets for the material delivered, and dewatering. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Trench width must be a minimum of 4' wide, and must meet pipe zone width recommended by the manufacturer of the pipe. Pipe bedding and pipe zone material shall be placed a minimum of six inches below the pipe and up to spring line of the pipe per Ogden City Standards Plan SD-6. The import granular backfill borrow shall be placed directly above the import pipe bedding and pipe zone material to the bottom of the untreated base course layer. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.
- E. Payment covers the cost of quality control and all testing as required by APWA 01 45 00 and the Ogden City Standards for City Projects. Includes testing by a third party of all earthwork compaction, and concrete testing as outlined in APWA and Ogden City Standards
- F. Storm drain line must be video inspected prior to acceptance by the City.

3.15 APWA SPEC ROADBASE (1” MINUS), Bid Item No. 20

- 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 a compacted thickness of 8” in the roadway. Payment covers the cost of installing the full thickness of aggregate base course layer and preparation for pavement or concrete installation. (Refer to Section 33 05 25, Pavement Restoration)
- C. Basecourse thickness shall match the thickness of concrete installed per Ogden City Standards
- D. No payment will be made for aggregate base course purchased and installed as a temporary construction measure.
- E. No payment for this item will be made for aggregate base used as trench backfill (below the bottom of UTBC level).
- F. Aggregate base course shall be untreated. No recycled roadbase (or any recycled material) will be accepted for roadbase on the project.

3.16 FURNISH AND INSTALL STORM STRUCTURE (CATCH BASIN, COMBO BOX, MANHOLE), Bid Items No. 21-25

- A. Measurement will be by each structure installed (EA).
- B. Payment includes all necessary materials, labor, equipment and tools required to construct and install a complete drainage structure including but not limited to the following: Concrete, reinforcing steel, grate and frame, manhole steps, excavation, base and backfill material, and any other items required in standard drawings.
- C. Payment includes all labor and material to raise and concrete collar the structure to finish grade.
- D. The connection to any pipe culvert or other drainage feature will be incidental to construction and no separate payment will be made for this work.
- E. The concrete plug of abandoned storm pipe left in place is incidental to construction and no separate payment will be made for this work.
- F. The City will make no separate payment for testing upon failure of visual inspection.

3.17 RAISE AND COLLAR EXISTING MANHOLE, Bid Item No. 26

- A. Measurement will be made per each (EA) existing manhole that is raised to final grade and concrete collared. Manholes are expected to be 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, labor, and all other appurtenant work not otherwise stipulated to be paid for separately.
- C. Concrete for surface collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.)

3.18 ASPHALT RESTORATION AND “T” PATCH (HMA DM 1/2” PG 58-28) Bid Item No. 27

- A. Measurement will be made by tons (TN) of HMA DM 1/2” PG 58-28 placed.
- 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 33 05 25, Pavement Restoration)
- C. Payment also covers street striping & symbols returned to existing conditions on patched asphalt.
- D. Payment also covers the costs of final sawcutting, “scratching” out the trench and general prep work prior to paving. Anticipated final trench width for milling or sawcut is 4 feet wide.
- E. Includes the 2’ wide minimum asphalt patch along the lip of new curb and gutter installed (width may increase as specified by the Engineer)
- F. Asphalt thickness shall match existing asphalt thickness plus 1”, but no greater than 7” thick.

3.19 LANDSCAPE RESTORATION, Bid Items No. 28

- A. Measured by square foot of landscape restoration (SF).
- B. Payment includes all materials and workmanship to restore the landscaping back to pre-construction conditions under the direction of the Engineer. Includes, but is not limited to: topsoil, sod, sprinkler repairs, bark mulch, landscape rock, small shrubs, as necessary to restore to preconstruction conditions.

3.20 TYPE A CURB & GUTTER, Bid Item No. 29

- A. Measurement will be made by linear foot (LF), measured along the top back of curb.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, placement, compaction, and testing to install 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, expansion, and dowelling into the existing curb and gutter.

3.21 INSTALL CONCRETE SIDEWALK/FLATWORK, Bid Items No. 30-31

- A. Measured per square foot (SF) of new sidewalk/flatwork placed.
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, compaction, forming, concrete and quality control testing to install 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.

3.22 ADA PEDESTRIAN DETECTIBLE WARNING SURFACE, Bid Item No. 32

- A. Measured per each (EA)
- B. Payment: includes all costs, materials, labor, and equipment incidental to the placement of a tactile warning pad that is gray in color, which meets ADA requirements at the location indicated by the plans.

3.23 WATERLINE LOOP, Bid Item No. 33-35

- A. Measurement will be made by EACH (EA) full ductile iron loop with four (4) 45 degree bends installed on the loop.
- B. Payment covers the cost of the size and type of pipe indicated, with installation per APWA Plan No. 543. Payment covers the cost of incidental work such as concrete thrust blocks, restrained joints, fittings, couplings, joint lubricants, nuts, bolts and washers; removal and disposal of interfering structures and obstructions; jackhammer work; trench shoring or trench boxes as applicable, additional/deep excavation, additional backfill/pipe bedding, underground plastic line markers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; pipe line cleaning; water main repair or replacement if damaged by CONTRACTOR; adjustments to grade of existing valve boxes or traffic lids or manholes; and similar work to complete the installation of the water line loop. (Refer to Section 33 11 00, Water Distribution and Transmission).
- C. For Pineview Irrigation main loops, Contractor shall coordinate with Pineview on shut down times for an approved time to perform the loop, and to have Pineview inspect and approve the loop before backfilling.

3.24 REMOVE CITY MONUMENT, Bid Item No. 36

- A. Measured by each monument box (EA).
- B. Payment covers all costs of monument survey before removal and actual removal of the monument, marker plate, concrete ring, and the frame and cover and all other items associated with removal of the monument.

3.25 INSTALL CITY MONUMENT, Bid Item No. 37

- A. Measured per each (EA).
- B. Payment covers all costs of monument survey, monument, marker plate, concrete ring, and the frame and cover and all other items associated with installing the monument per Ogden City Standard Plans SUR-1, SUR-2, and SUR-3. Payment also covers all cost, labor, and materials shown to establish the monument.
- C. Contractor required to coordinate with the Ogden City Surveyor (Steve Porter 801-629-8979) for location and installation of each monument.
- D. Includes survey monument in place following APWA Plan No. 274. Includes all permitting, fees and additional traffic control to meet said guidelines.

8" PVC C-900 DR18 PIPE, Bid Item No.201

- A. Measurement shall be made per linear foot (LF) of 8 INCH PVC C-900 DR18 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, corporation stops, 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, reducers, 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 C-900 DR18 PVC pipe shall have 12 ga. insulated tracing wire installed with the pipe. Tracing wires shall terminate in Snakepit tracer box style (CD14BT or approved equal) according to Ogden City Standard W-1B. Marking tape shall also be installed with the pipe per Ogden City Standards.
 - 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). 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, backfill 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 PVC pipe manufacturers' recommendations and Ogden City Standards. Material placed as backfill above the pipe bedding material shall be APWA 2" Minus Granular Fill Borrow or better and placed and compacted up to the bottom of the untreated base course layer.

3.26 8" GATE VALVE (CLASS 250), Bid Item No. 202

- A. Measurement will be made by actual count per each EA gate 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, concrete collar sealed, backfill, 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 and wrapped. Documentation of wrapped valve is required prior to backfill.
- D. Payment shall include raising the valve box to final grade and providing the 12-inch thick, 12-inch wide, concrete collar around the cover(s) meeting city standards. Concrete for collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.).

3.27 CONNECT TO EXISTING WATER MAIN, Bid Item No. 203

- 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 and capping 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 to provide for the finish street structure.

3.28 FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY, Bid Item No. 204

- 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 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, concrete collar; 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 shall include raising the valve box to final grade and providing the 12-inch thick, 12-inch wide, concrete collar around the cover(s) meeting city standards. Concrete for collars shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.).
- D. 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 (Refer to Section 33 12 19 SP Hydrants for more details).
- E. Payment covers all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.29 REMOVE & SALVAGE FIRE HYDRANT ASSEMBLY, Bid Item No. 205

- A. Measurement shall be made per each fire hydrant removed (EA).
- B. Payment shall be at the unit price bid and shall include all costs to remove the existing fire hydrant and salvage to Ogden City Water Department. Also includes all excavation, legal disposal of waste materials, backfill, backfill material, and compaction. Payment also includes all associated fittings, materials, and work items associated with completing this bid item. Payment includes the cutting and plugging of the existing hydrant line to be abandoned along with the removal of the hydrant valve.

3.30 1" AWWA C901 SERVICE LATERAL, Bid Item No. 206

- 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 and backfill placed to the bottom of the untreated base course layer, disturbed concrete repair and disposal, the new water lateral CTS Poly piping, 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, service tapping and tap saddles, corp. stops, 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. Install the service lateral by boring/pulling the water lateral to its planned location. (Refer to Section 33 12 33, Water Meter).
- C. Service Saddles shall be nylon coated with double stainless steel straps
- D. Corp stops shall be either Mueller or Ford with T-cap adaptors.

3.31 1" WATER METER ASSEMBLY, Bid Item No. 207

- 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; restoration of all landscaping; and other miscellaneous devices, materials, or equipment required for a complete installation; all in accordance with Ogden City Standard Drawing W-3. Note, all existing meters are 5/8" with one 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. New meters can be purchased from Ogden City Water Department if necessary. Ogden City's Water Department Approved Materials List should be consulted for acceptable equipment types. (Refer to Section 33 12 33, Water Meter), acceptable dual check valve – Ford **HHCA**34-444-G-NL 1" Dual Check Valve. Acceptable angle valve – Ford KV43-444WQ/G – Angle Valve 1" COMP NL. Meter Box – Raven Plastic Tapered 16x24x36 (White interior). Ring & Cover – A32-LB-TP – Ford Ring & Cover w/2" Hole.
- 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 all costs associated with restoring disturbed landscaping from installation of this bid item including but not limited to turf sod, topsoil, and sprinkler heads and/or damaged sprinkler lines.

3.32 REMOVE EXISTING WATER VALVE BOX, Bid Item No. 208

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

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