

DOCUMENT 00 90 10
ADDENDUM No. 1



PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Changes to the Bid Documents.
 - 1. Revised Bid Schedule No. 1, Added Bid Item No. 137
- B. Changes to the Bid Documents.

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as CIP SA009 27th Street Sanitary Sewer Improvement Project Phase II & 28th Street Utility Improvements.
- B. Date of this Addendum: February 21, 2019

PART 2 CHANGES

2.1 CHANGES TO PRIOR ADDENDA

- A. None

2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Document 00 41 10 Bid Schedule changed by adding Bid. Schedule No. 1, Bid Item No. 137.
 - 1. Added Description as follows: Remove Concrete Flat work.
 - 2. Bid Quantity resulting in 20 SY.
 - 3. This is added as a placeholder to establish a unit cost price in the case that concrete pavement is encountered during excavation.
- B. Added the following Measurement and Payment Items:

- 3.61 REMOVE CONCRETE FLATWORK, Bid Schedule No. 1, Bid Item No. 137
 - 1. Measured per square yard (SY).
 - 2. Payment covers all costs associated with removal and proper disposal of concrete flatwork or substrate

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 CLARIFICATIONS

A. What does the IMPORT TRENCH FILL (2" MINUS) cover?

1. Answer: On the 27th Street Project

Bid Item 118 IMPORT TRENCH FILL (2" MINUS) this item covers all necessary materials and equipment, labor, hauling, placement, and compaction to produce an acceptable trench fill (APWA - 2" Minus Granular Fill Borrow). No allowance will be made for bedding and fill materials required to fill voids caused by trenching operations. Payment also includes cost to remove and dispose of existing soils displaced by the trench bedding and fill. (Refer to Section 31 05 13, Common Fill and 33 05 20, Backfilling Trenches).

Import pipe bedding material and 18" PVC Pipe material are separate items and can be found under Bid Items 117 & 121.

2. Answer: On the 28th Street Project

Bid Item 208 Roadway Excavation (Plan Quantity) applies to required roadway excavation outside of utility trenches and/or T-patches.

Bid Item 226 Storm Drain Pipe trenching includes all costs to furnish and stockpile the import bedding and pipe zone material (Sewer Rock ASTM Size No. 4), Mirafi 140N Fabric to surround bedding and pipe zone material, stockpile and import granular 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

Bid Item 315 Water Line Pipe Trenching include all costs to furnish and stockpile the sand and import granular backfill (APWA - 2" Minus Granular Fill Borrow); excavate the trench; place, shape, compact and prepare the material around the pipe; mechanically compact sand around pipe haunches and prepare the sand in the trench (depth of lifts not to exceed 8 inches); provide compaction and gradation tests; and provide certified scale tickets for the material delivered

B. How will the rail line be addressed if it is encountered in this project?

1. Answer: If old rail line is encountered at any point in projects it will be addressed on case by case level. Meaning the owner, engineer and contractor will come together to evaluate and come to a reasonable solution in handling the situation.

C. Will survey control and staking be provided for these projects?

1. Answer: On the 27th Street project, Sunrise Engineering will set control and establish the initial construction staking for the project. The contractor will be responsible to maintain control and staking for the remainder of the project.
 2. Answer: On the 28th Street project the control has already been set and the contractor will be responsible for construction staking. See Bid Items 205 and 305 Construction Staking and Surveying.
- D. Is Ogden City planning on using the extra 18” SDR-35 pipe that was left over from the 2018 *14th Street sanitary sewer project* on the 27th Street project?
1. Yes Ogden City has 154 LF of 18” SDR-35 pipe that was left over from last year’s project and we would propose selling that pipe at cost to the lowest bidder on this project. The City bought the pipe for \$16.35 a linear foot.

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:
CIP SA009 27th Street Sanitary Sewer Improvement Project Phase II & 28th Street Utility Improvements

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 Schedule No.1 below describes work basic to the Contract.
- B. Bid Schedule No.2 below describes work basic to the Contract.
- C. Bid Schedule No.3 below describes work basic to the Contract.

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BID SCHEDULE No. 1

27th Street Phase II Sanitary Sewer Replacement & Improvement Project

BID ITEM	SPEC #	DESCRIPTION	BID UNIT	BID QUANTITY	UNIT PRICE	TOTAL COST
101	01 45 00	QUALITY CONTROL AND TESTING	LS	1		
102	00 72 00	PRE-CONSTRUCTION VIDEO	LS	1		
103	01 55 26	TRAFFIC CONTROL	LS	1		
104	01 57 00	TEMPORARY PUMPING AND SEWER RELOCATION	LS	1		
105	01 71 13	MOBILIZATION	LS	1		
106	31 25 00 SP	SWPP PLAN	LS	1		
107	02 41 20 SP	UTILITY INVESTIGATION	HR	11		
108	02 41 14	ASPHALT REMOVAL	SY	1312		
109	32 11 23	UNTREATED BASE COURSE (8" THK)	TON	570		
110	32 12 05	HMA 1/2" PG 58-28 (7" THK)	TON	490		
111	UDOT 02735S UDOT 02741	HMA 1/2" PG 64-34 (8" THK) with UDOT Micro-Surface Seal Coat	TON	80		
112	32 16 13	REMOVE & REPLACE CURB & GUTTER	LF	130		
113	32 16 13	REMOVE & REPLACE SIDEWALK (4" THK)	SF	600		
114	32 16 13	REMOVE & REPLACE SIDEWALK (6" THK)	SF	420		
115	32 16 13	REMOVE & REPLACE CONCRETE FLATWORK (6" THK)	SF	180		
116	32 94 00 SP	LANDSCAPE RESTORATION	LS	1		
117	33 05 20	IMPORT PIPE BEDDING (SEWER ROCK ASTM SIZE NO. 4)	LF	790		
118	33 05 20	IMPORT TRENCH FILL (2" MINUS)	LF	710		
119	33 11 00	WATER LATERAL REPLACEMENT	LF	120		
120	33 11 00	WATER SERVICE CONNECTION	EA	2		
121	33 31 00	18" PVC (SDR-35) SEWER PIPE	LF	790		
122	33 31 00	60" PRECAST SEWER MANHOLE	EA	2		
123	33 31 00	REMOVE EXISTING MANHOLE	EA	2		
124	33 31 00	MODIFY EXISTING MANHOLE	EA	1		
125	33 31 00	SEWER LATERAL CONNECTION	EA	12		
126	33 05 23.50 SP	4" SEWER SERVICE LATERAL C.I.P.P	LF	435		
127	33 05 23.50 SP	6" SEWER SERVICE LATERAL C.I.P.P.	LF	160		
128	33 31 00	4" SEWER LATERAL REPLACEMENT	LF	140		
129	33 31 00	6" SEWER LATERAL REPLACEMENT	LF	140		
130	33 31 00 SP	4" SEWER SERVICE CLEANOUT	EA	8		
131	33 31 00 SP	6" SEWER SERVICE CLEANOUT	EA	4		
132	33 31 00	4" NEW SEWER SERVICE LATERAL	LF	50		
133	33 31 00	6" NEW SEWER SERVICE LATERAL	LF	50		
134	31 05 10	SURVEY MONUMENT	EA	2		
135	UDOT 02765	PAVEMENT STRIPING AND MARKINGS	LS	1		
136	UDOT 03575	FLOWABLE FILL	LF	80		
137	02 41 14	REMOVE CONCRETE FLATWORK	SY	20		

Bid Schedule No. 1 Subtotal = _____

Bid Schedule Number One Subtotal in Words _____

BID SCHEDULE No. 2

28th Street Storm Sewer Replacement & Improvement Project

BID ITEM	SPEC #	DESCRIPTION	BID UNIT	BID QUANTITY	UNIT PRICE	TOTAL COST
201	01 45 00	QUALITY CONTROL AND TESTING	LS	1		
202	01 55 26	TRAFFIC CONTROL	LS	1		
203	01 71 13	MOBILIZATION	LS	1		
204	31 25 00 SP	SWPP PLAN	LS	1		
205	01 71 34	CONSTRUCTION STAKING AND SURVEYING	LS	1		
206	02 41 20 SP	UTILITY INVESTIGATION	HRS	10		
207	02 41 14	ASPHALT REMOVAL	SY	1050		
208	31 23 16	ROADWAY EXCAVATION (PLAN QUANTITY)	CY	195		
209	32 11 23	UNTREATED BASE COURSE (8" THK)	TON	460		
210	32 12 05	HMA 1/2" PG 58-28 (6" THK)	TON	370		
211	32 16 13	REMOVE & REPLACE CURB AND GUTTER	LF	840		
212	32 16 13	REMOVE & REPLACE 4" SIDEWALK	SF	685		
213	32 16 13	REMOVE & REPLACE CONCRETE FLATWORK (6" THK)	SF	1625		
214	32 16 13	REMOVE & REPLACE CONCRETE FLATWORK (8" THK)	SF	460		
215	32 94 00 SP	LANDSCAPE RESTORATION	LS	1		
216	33 41 00	15" REINFORCED CONCRETE PIPE CLASS III	LF	192		
217	33 41 00	18" REINFORCED CONCRETE PIPE CLASS III	LF	77		
218	33 41 00	24" REINFORCED CONCRETE PIPE CLASS III	LF	517		
219	33 41 00	REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE	LF	658		
220	33 41 00	REMOVE AND DISPOSE OF EXISTING STORM DRAIN BOX	EA	4		
221	33 41 00	REMOVE AND DISPOSE OF EXISTING STORM BOX CULVERT	LF	85		
222	33 41 00	CATCH BASIN 6'x14'	EA	1		
223	33 41 00	CATCH BASIN 3'X5'	EA	2		
224	33 41 00	CATCH BASIN 2'X3'	EA	5		
225	33 41 00	REMOVE AND REPLACE LID OF EXISTING 5'X13' BOX	LS	1		
226	33 05 20	STORM DRAIN PIPE TRENCHING	LF	786		
227	32 16 14	DETECTABLE WARNING SURFACE	EA	4		
228	32 01 07	REMOVE AND RELOCATE TRAFFIC SIGN	EA	2		
229	33 31 00	REMOVE AND REPLACE EXISTING SEWER LATERAL	EA	7		
230	33 05 14	LOWER, RAISE & COLLAR MANHOLE TO FINISH GRADE	EA	1		

Bid Schedule No. 2 Subtotal = _____

Bid Schedule Number Two Subtotal in Words _____

BID SCHEDULE #3

28th Street Water line Replacement & Improvement Project

BID ITEM	SPEC #	DESCRIPTION	BID UNIT	BID QUANTITY	UNIT PRICE	TOTAL COST
301	01 45 00	QUALITY CONTROL AND TESTING	LS	1		
302	01 55 26	TRAFFIC CONTROL	LS	1		
303	01 71 13	MOBILIZATION	LS	1		
304	31 25 00 SP	SWPP PLAN	LS	1		
305	01 71 34	CONSTRUCTION STAKING AND SURVEYING	LS	1		
306	02 41 20 SP	UTILITY INVESTIGATION	HRS	10		
307	02 41 14	ASPHALT REMOVAL	SY	1260		
308	31 23 16	ROADWAY EXCAVATION (PLAN QUANTITY)	CY	195		
309	32 11 23	UNTREATED BASE COURSE (8" THICK)	TON	550		
310	32 12 05	HMA 1/2" PG 58-28 (6" THICK)	TON	440		
311	32 16 13	REMOVE & REPLACE CURB AND GUTTER	LF	50		
312	02 41 13	REMOVE & SALVAGE FIRE HYDRANT	EA	1		
313	02 41 13	REMOVE WATER VALVE BOX	EA	2		
314	02 41 13	REMOVE WATER VALVE	EA	1		
315	33 05 20	WATER LINE PIPE TRENCHING	LF	845		
316	33 05 07	8" PVC C-900 DR18 PIPE	LF	845		
317	33 12 16	8" GATE VALVE (CLASS 250)	EA	7		
318	33 11 00	CONNECT TO EXISTING WATER LINE	EA	5		
319	33 12 19	FIRE HYDRANT ASSEMBLY	EA	2		
320	33 12 33	1" CTS PEXa (REHAU MUNICIPEX OR EQUAL) WATER LATERAL (BORE OR PULL)	LF	320		
321	33 12 33	1" CTS PEXa (REHAU MUNICIPEX OR EQUAL) WATER LATERAL (OPEN TRENCH)	LF	165		
322	33 12 33	1" WATER METER ASSEMBLY	EA	16		
323	31 05 10	SURVEY MONUMENT	EA	1		

Bid Schedule No. 3 Subtotal = _____

Bid Schedule Number Three Subtotal in Words

Project Total (Summation of Bid Schedules No. 1, 2, & 3) = \$ _____

Project Total Summation of Bid Schedules One, Two, and Three in Words: _____

Signature _____

PART 3 MEASUREMENTS AND PAYMENT

3.0 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).

3.1 QUALITY CONTROL AND TESTING

Bid Schedule No. 1, 2, & 3; Bid Item No. 101, 201, & 301

- A. Measured per lump sum (LS).
- B. Payment: Covers cost of quality control and all testing as required by APWA 01 45 00 and the 2019 Ogden City Standards for City Projects. If additional control testing is requested by OWNER or ENGINEER and testing shows product meets specification, such testing will be paid for by change order.

3.2 PRE-CONSTRUCTION VIDEO

Bid Schedule No. 1, Bid Item No. 102

- A. Measured per lump sum (LS).
- B. Payment covers the cost of labor, materials and equipment used to perform color audio-video recording of the project site surfaces. CONTRACTOR shall furnish to the OWNER an original and three (3) copies of a continuous color and audio-video DVD recording of the project site.

3.3 TRAFFIC CONTROL

Bid Schedules No. 1, 2, & 3 Bid Item No. 103, 202, & 302

- A. Measured per lump sum (LS).
- B. Payment covers traffic control plan accepted by Ogden City, traffic control technician, flaggers, pavement markings, signs, barricades, and all traffic control devices (Refer to Section 01 55 26, Traffic Control). 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.
- C. Payment covers any temporary trench fill (which will not be used for final trench fill section) for traffic flow and public safety purposes before final pavement section is added.

3.4 TEMPORARY PUMPING AND SEWER RELOCATION

Bid Schedule No. 1, Bid Item No. 104

- A. Measured per lump sum (LS).
- B. Payment covers the cost of locating and providing temporary bypass pumping service to all sewer connections and mainline along 27th Street and all other streets affected by construction throughout the duration of the project. Measured peak flow along 27th Street was 1,200 GPM (Refer to APWA Section 01 57 00).

3.5 MOBILIZATION
Bid Schedules No. 1, 2, & 3; Bid Items No. 105, 203, & 303

- A. Measured per lump sum (LS).
- B. Payment covers cost of mobilization, demobilization, installation of temporary facilities, permitting, and bringing all necessary construction equipment to the site. Payment will be made on a percentage basis as follows. (Refer to APWA Section 01 71 13).

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

3.6 SWPPP PLAN
Bid Schedule No. 1, 2, & 3 Bid Item No. 106, 204, & 304

- A. Measured per 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. UTR300000 found at: <http://www.waterquality.utah.gov/UPDES/stormwatercon.htm> 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), and stabilized roadway entrances. (Refer to Section 31 25 00 SP).
- 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.

3.7 CONSTRUCTION STAKING & SURVEYING
Bid Schedule No. 2, & 3; Bid Item No. 205, & 305

- A. Measurement shall be made per lump sum (LS) for the construction surveying and staking during construction.
- 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, storm drain system, curb & gutter, sidewalk, driveways, ped ramps, roadway, and appurtenances associated with the project.

3.8 UTILITY INVESTIGATION

Bid Schedule No. 1, 2, & 3 Bid Item No. 107, 206, & 306

- 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 or OWNER (HRS). No allowance of time will be made for transporting the backhoe or other equipment to and from the job site when the backhoe or other equipment 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 only as required by the ENGINEER (Refer to Section 02 41 20 SP, Utility Investigation).

3.9 ASPHALT REMOVAL

Bid Schedule No. 1, 2, & 3; Bid Item No. 108, 207, & 307

- A. Measured per square yard (SY).
- B. Payment covers necessary work to saw cut, remove and dispose of all pavement along the sanitary and storm sewer line trench and all work associated with sewer laterals. The maximum width of the trench with full depth excavation "T" patch shall be 15 feet. (Refer to Section 02 41 14, Pavement Removal)

3.10 ROADWAY EXCAVATION (PLAN QUANTITY)

Bid Schedule No. 2, & 3; Bid Item No. 208, & 308

- A. Measured: Unclassified and classified excavation will be measured on a cubic yard (CY) basis and will be a plan set quantity as approved by the ENGINEER. This pay item applies to required roadway excavation outside of utility trenches and/or T-patches.
- B. Payment: Pay quantities will be computed in the original position to the neat lines and grades or pay limits of excavation specified using a plan set quantity basis.
- C. Excavation done for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- D. This item will NOT pay for excavation of concrete items, nor will it pay for any utility trench excavation.

3.11 UNTREATED BASE COURSE (8" THK)

Bid Schedule No. 1, 2, & 3; Bid Item No. 109, 209, & 309

- A. Measured per ton (TON).
- B. Payment covers the cost of furnishing all necessary materials, untreated base course, labor, hauling, placement, and compaction to produce an acceptably deep excavation patch per APWA Plan No. 255 along the sewer and storm line trench, along all sewer lateral trenches, and along any new roadway sections as shown on the plans. Payment covers the cost of installing the full thickness of road base (Grade - 3/4"). (Refer to Section 33 05 25, Pavement Restoration and Section 32 11 23, Aggregate Base Course)

**3.12 HMA 1/2" PG 58-28 (Thickness Varies)
Bid Schedule No. 1, 2, & 3; Bid Item No. 110, 210, & 310**

- A. Measured per ton (TON).
- 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 APWA Plan No. 255 along sanitary and storm sewer trunk, lateral trenches, and along any new roadway sections as shown in the plans. The maximum width of the trench with full depth excavation "T" patch shall be 15 feet unless otherwise directed by the Engineer. Payment covers the cost of installing the full thickness of hot-mixed, hot laid asphalt concrete pavement (PG 58-28 DM 1/2"). (Refer to Section 33 05 25, Pavement Restoration). (The maximum amount of recycled content that will be allowed is 15 percent).
- C. Payment also covers street striping & symbols returned to existing conditions on patched asphalt. Refer to APWA Section 32 17 23.

**3.13 HMA 1/2" PG 64-34 (8" THK) WITH UDOT MICRO-SURFACE SEAL COAT
Bid Schedule No. 1, Bid Item No. 111**

- A. Measured per ton (TON).
- B. Payment includes all labor, materials, equipment, and transportation necessary to furnish and install the asphalt in its final position as specified by UDOT Standards and Specifications. Weigh tickets shall be provided to the Engineer daily. Sub-grade and Base Course shall be compacted and tested prior to installation of asphalt. Item includes sawcutting, applying tack coat, crack sealing the cold joints between the new and old asphalt, compacting, hydrated lime, prime coat, asphalt binder, aggregates and other additives required to furnish and install the asphalt to comply with project plans and specifications. This asphalt is on a UDOT road and needs to be installed per UDOT specifications. The UDOT specification is 02741. The Micro-surface seal coat is considered incidental to this item and shall be installed per UDOT specifications. This item also includes performing the necessary testing to verify the asphalt is installed in accordance with UDOT specifications as well as the project plans and specifications.

**3.14 REMOVE & REPLACE CURB AND GUTTER
Bid Schedule No. 1, 2, & 3; Bid Item No. 112, 211, & 311**

- A. Measured per ton (LF).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, 8 inch thick of base course material, concrete, and testing to remove and replace curb and gutter per Ogden City Standards (Refer to Section 32 16 13, Driveway, Sidewalk, Curb, Gutter).
- C. The locations shown on the construction plans is an approximate location, and the exact location and length will be determined in the field. All new curb and gutter to be type "A".

3.15 REMOVE & REPLACE SIDEWALK
Bid Schedule No. 1, & 2; Bid Item No. 113, 114, & 212

- A. Measured per square foot (SF).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, base course, 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.

3.16 REMOVE & REPLACE CONCRETE FLATWORK
Bid Schedule No. 1, & 2; Bid Item No. 115, 213, & 214

- A. Measured per Square Foot (SF).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, disposal, placement, compaction, rebar, base course, concrete, and testing to replace concrete flatwork as needed (Refer to Section 32 16 13, *Driveway, Sidewalk, Curb, Gutter*). Thickness as indicated per plans.
- C. The quantity listed is an assumed quantity to establish a unit price for remove and replace concrete drive in the event it is needed. The location shown on the construction plans is approximate, and the exact location and quantity effected by sewer lateral work will be determined in the field.

3.17 LANDSCAPE RESTORATION
Bid Schedule No. 1, & 2; Bid Item No. 116, & 215

- A. Measured per lump sum (LS).
- B. Payment covers the cost of labor, materials, tools, and equipment necessary to restore disturbed landscaping, irrigation lines, sod, traffic signs, and any other landscape features to existing conditions. Contractor will meet with property owner to assure that landscaping and fencing damaged due to pipe burst are returned to original condition (Refer to Section 32 94 00 SP).

3.18 IMPORT PIPE BEDDING (SEWER ROCK ASTM SIZE NO. 4)
Bid Schedule No. 1, Bid item No. 117

- A. Measured per linear foot (LF).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, placement, and compaction to produce an acceptable trench bedding (Sewer Rock ASTM Size No. 4). No allowance will be made for bedding and fill materials required to fill voids caused by trenching operations, which exceed the dimensions shown on the drawings. (Refer to Section 31 05 13, Common Fill and 33 05 20, Backfilling Trenches)

**3.19 IMPORT TRENCH FILL (2" MINUS)
Bid Schedule No. 1, Bid Item No. 118**

- A. Measured per linear foot (LF).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, hauling, placement, and compaction to produce an acceptable trench fill (APWA - 2" Minus Granular Fill Borrow). No allowance will be made for bedding and fill materials required to fill voids caused by trenching operations, which exceed the dimensions shown on the drawings. Payment also includes cost to remove and dispose of existing soils displaced by the trench bedding and fill. (Refer to Section 31 05 13, Common Fill and 33 05 20, Backfilling Trenches)

**3.20 WATER LATERAL REPLACEMENT
Bid Schedule No. 1, Bid Item No. 119**

- A. Measured per linear foot (LF).
- B. Payment covers the cost to replace any water service lines that fail due to construction activity in the area. Any water service lines damaged by the Contractor will be replaced at no cost to the Owner. The location is not shown in the plans and will be determined in the field if this item is to be used by the Engineer. Payment also covers excavation, backfill, import pipe bedding and backfill, and any other items necessary. (Refer to APWA Section 33 11 00)

**3.21 WATER SERVICE CONNECTION
Bid Schedule No. 1, Bid Item No. 120**

- A. Measured per each (EA).
- B. Payment covers the cost of excavation, soil preparation, potholing, connection of the new water lateral to water main, connection of the new water lateral to the meter, service tapping and tap saddles, corp. stops, existing removal or abandonment and disposal of the existing water pipe(s); import pipe bedding and backfill and other miscellaneous devices, materials, or equipment required for a complete installation. (Refer to Section 33 11 00)
- C. The quantity listed is an assumed quantity to establish a unit price for remove and replace the water service connections in the event it is needed. The location is not shown in the plans and will be determined in the field if this item is to be used by the Engineer.

**3.22 18" POLYVINYL CHLORIDE (PVC) SDR-35 SEWER PIPE
Bid Schedule No. 1, Bid Item No. 121**

- A. Measured per linear foot (LF) from center to center of structure.
- B. Payment covers the cost of the size and type of pipe indicated, with installation per Ogden City Standard Drawing SS-3. Payment covers the cost of incidental work such as, fittings, couplings, joint lubricants, nuts, bolts and washers; removal and disposal of interfering structures and obstructions; grout; jackhammer work; trench shoring or trench boxes as applicable; underground plastic line markers; cleaning of invert covers; removal and disposal of waste materials; restoration of all utilities damaged as a result of operations; site dewatering; trunk line cleaning and commissioning; utility repair or replacement if damaged by CONTRACTOR; adjustments to grade for manhole inverts and similar work to complete

the installation of the sanitary sewer trunk line. (Refer to Section 33 31 00)

3.23 60" PRECAST SEWER MANHOLE
Bid Schedule No. 1, Bid Item No. 122

- A. Measured per each (EA)
- B. Payment covers the cost of excavation, bedding and backfill, potholing, and new manhole materials; acquisition and installation of new manhole, sewer lid, ring & cover, collaring, relocation as needed of customer connection within manhole, testing, grouting; providing material, labor, and incidentals for reconnecting all sewer mains and laterals to new manhole; and other miscellaneous devices, materials, or equipment required for a complete installation. (Refer to 33 31 00, Ogden City Standard Drawings SS-1 to SS-6)

3.24 REMOVE EXISTING MANHOLE
Bid Schedule No. 1, Bid Item No. 123

- A. Measured per each (EA)
- B. Payment covers the cost of excavation, removal and disposal of existing manholes; providing material, labor, and incidentals for backfilling and compacting, placing new aggregate base course, and asphalt patching the disturbed roadway; and other miscellaneous devices, materials, or equipment required for a complete removal and restoring the effected roadway or surfacing. (Refer to 33 31 00, Ogden City Standard Drawings SS-1 to SS-6)

3.25 MODIFY EXISTING MANHOLE
Bid Schedule No. 1, Bid Item No. 124

- A. Measurement per each (EA).
- B. Payment covers the cost of excavation, coring, booting, and connecting new pipe to existing manhole; providing material, labor, and incidentals for backfilling and compacting, placing new aggregate base course, core drilling, pipe connection and boot, and other miscellaneous devices, materials. (Refer to 33 31 00, Ogden City Standard Drawings SS-1 to SS-6)

3.26 SEWER LATERAL CONNECTION
Bid Schedule No. 1, Bid Item No. 125

- A. Measured per each (EA)
- B. Payment covers the cost of excavation, soil preparation, potholing, connection of the sewer lateral to new sewer trunk line, wye, tee, Fernco shear coupling, and 5-foot PVC SDR 35 sewer lateral, rubber gaskets, fittings, commissioning lateral; and other miscellaneous devices, materials, or equipment required for a complete service connection. (Refer to Section 33 31 00, Sanitary Sewerage Systems, and Detail B, Sheet D1 of the construction plans)

3.27 4" SEWER SERVICE LATERAL C.I.P.P
Bid Schedule No. 1, Bid Item No. 126

- A. Measured per linear foot (LF), from sewer trunk line to sewer service cleanout.
- B. Payment covers the full installation of flexible resin filled pipe liner in existing gravity pipes, and the liner cured with steam or hot water and/or UV curing method. Payment shall constitute full compensation for all material and labor, and for the performance of all work including cleaning, TV inspection immediately before work commences and after work is

completed, root removal, and all incidentals necessary to complete this item, including the work required to open branch or lateral connection to sewer mainlines, structures, cleanouts, etc. without excavation. (Refer to Section 33 05 23.50 SP)

3.28 6" SEWER SERVICE LATERAL C.I.P.P
Bid Schedule No. 1, Bid Item No. 127

- A. Measured per linear foot (LF), from sewer trunk line to sewer service cleanout.
- B. Payment covers the full installation of flexible resin filled pipe liner in existing gravity pipes, and the liner cured with steam or hot water and/or UV curing method. Payment shall constitute full compensation for all material and labor, and for the performance of all work including cleaning, TV inspection immediately before work commences and after work is completed, root removal, and all incidentals necessary to complete this item, including the work required to open branch or lateral connection to sewer mainlines, structures, cleanouts, etc. without excavation. (Refer to Section 33 05 23.50 SP)

3.29 4" SEWER SERVICE LATERAL REPLACEMENT
Bid Schedule No. 1, Bid Item No. 128

- A. Measured per linear foot (LF).
- B. Payment covers the cost of service lateral replacement including excavation and/or pipe bursting, soil preparation, potholing, the sewer lateral, connection of the new sewer lateral to clean out, existing removal or abandonment and disposal of the existing sewer lateral(s); import pipe bedding and backfill and other miscellaneous devices, materials, or equipment required for a complete sewer lateral installation. The contractor is to determine which method shall be used to complete the sewer lateral replacement, open cut or pipe bursting, or a combination of both methods. Contractor will be paid the same monies per linear foot of replacement, regardless of method or combination of methods selected. (Refer to Section 33 31 00, Sanitary Sewerage Systems)
- C. The quantity is an assumed quantity to establish a unit price for the cases where the existing sewer lateral cannot be lined with a CIPP. Approval from the Engineer will be needed prior to use.

3.30 6" SEWER LATERAL REPLACEMENT
Bid Schedule No. 1, Bid Item No. 129

- A. Measured per linear foot (LF).
- B. Payment covers the cost of service lateral replacement including excavation and/or pipe bursting, soil preparation, potholing, the sewer lateral, connection of the new sewer lateral to clean out, existing removal or abandonment and disposal of the existing sewer lateral(s); import pipe bedding and backfill and other miscellaneous devices, materials, or equipment required for a complete sewer lateral installation. The contractor is to determine which method shall be used to complete the sewer lateral replacement, open cut or pipe bursting, or a combination of both methods. Contractor will be paid the same monies per linear foot of replacement, regardless of method or combination of methods selected. (Refer to Section 33 31 00, Sanitary Sewerage Systems)
- C. The quantity is an assumed quantity to establish a unit price for the cases where the existing

sewer lateral cannot be lined with a CIPP. Approval from the Engineer will be needed prior to use.

**3.31 4" SEWER SERVICE CLEANOUT
Bid Schedule No. 1, Bid Item No. 130**

- A. Measured per Each (EA).
- B. Payment shall include full compensation for all materials, excavation, backfill, compaction, cleaning, labor, tools, and incidentals necessary to furnish and install pipe, fittings, frame and cover, and incidentals per the construction plans and details. Sewer cleanouts shall be installed off the back of the sidewalk. Utility locating to locate the existing lateral shall be included as part of this pay item. Shoring will be required to mitigate the excavation impact to a maximum of 50 square feet disturbed. (Refer to Section 33 31 10 SP)

**3.32 6" SEWER CLEANOUT
Bid Schedule No. 1, Bid Item No. 131**

- A. Measured per Each (EA).
- B. Payment shall include full compensation for all materials, excavation, backfill, compaction, cleaning, labor, tools, and incidentals necessary to furnish and install pipe, fittings, frame and cover, and incidentals per the construction plans and details. Sewer cleanouts shall be installed off the back of the sidewalk. Utility locating to locate the existing lateral shall be included as part of this pay item. Shoring will be required to mitigate the excavation impact to a maximum of 50 square feet disturbed. (Refer to Section 33 31 10 SP)

**3.33 4" NEW SEWER SERVICE LATERAL
Bid Schedule No. 1, Bid Item No. 132**

- A. Measured per linear foot (LF).
- B. Payment shall constitute full compensation for furnishing all equipment, tools, labor and materials to complete the work as specified, by the engineer of record including site preparation, trench excavation, removal of existing pipe (if applicable), removal of existing pavement, trench rock excavation, trench fill material, placement and compaction of trench, restoration of landscaping and pavement, abandonment of existing piping and all related items for complete installation. Service lateral will be designated from the main sewer line to the cleanout located at back of walk. Location of cleanout and length of lateral shall be specified by engineer of record if back of walk is unavailable. New cleanout will be required on all new sewer service lateral connection. (Refer to Section 33 31 10)

**3.34 6" NEW SEWER SERVICE LATERAL,
Bid Schedule No. 1, Bid Item No. 133**

- A. Measured per linear foot (LF).
- B. Payment shall constitute full compensation for furnishing all equipment, tools, labor and materials to complete the work as specified, by the engineer of record including site preparation, trench excavation, removal of existing pipe (if applicable), removal of existing pavement, trench rock excavation, trench fill material, placement and compaction of trench, restoration of landscaping and pavement, abandonment of existing piping and all related items for complete installation. Service lateral will be designated from the main sewer line to the cleanout located at back of walk. Location of cleanout and length of lateral shall be

specified by engineer of record if back of walk is unavailable. New cleanout will be required on all new sewer service lateral connection. (Refer to Section 33 31 10)

3.36 REINFORCED CONCRETE PIPE

Bid Schedule No. 2, Bid Item Nos. 216, 217, and 218

- A. Measurement shall be made per linear foot (LF) measured in the field to the nearest foot, for the type, size and class indicated in the Bid Schedule between structures. Unless indicated otherwise, measurement to be along the pipe from the inside face to inside face of manholes, catch basins, or other structures, or to the end of the pipe where no structure exists, with no deduction for fittings.
- B. Payment shall be made at the linear foot price bid and shall include all costs for furnishing and installing the pipe of the material, type, size and class indicated, including couplings; gaskets; adapters; plugs; capping or plugging of the existing storm drain pipe(s) to be abandoned; trench boxes or shoring as needed; connection of the existing storm drain to the new storm drain; reconnection of existing storm drain laterals to the new storm drain manholes; connecting new storm drain to existing structures; pipe cutting; field collars; cleaning new pipe prior to acceptance by owner, commissioning pipelines. Payment also includes measures to protect the new pipeline from being damaged or filled with sediment from a runoff event during construction.

3.37 REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE

Bid Schedule No. 2, Bid Item No. 219

- 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, and disposing of the existing storm drain pipe as shown on the drawings. Payment also includes excavation; supplying, installing, and compacting import granular backfill to the necessary grade under the direction of the engineer, and restoring any adjacent facilities disturbed by construction activities associated with this item.

3.38 REMOVE AND DISPOSE OF EXISTING STORM DRAIN BOX

Bid Schedule No. 2, Bid Item No. 220

- A. Measurement shall be made per each (EA) basis. Measurement to be by actual field count of each existing storm drain manhole, cleanout box, catch basin, or structure is removed and disposed of.
- B. Payment shall be made at the per each bid and shall include all costs for labor, tools, materials, and equipment involved in excavating, removing and disposing of existing storm drain facilities and other miscellaneous items required to complete the work. Payment also includes supplying, installing, and compacting backfill materials and restoring any adjacent

facilities disturbed by construction activities associated with this item.

3.39 REMOVE AND DISPOSE OF EXISTING BOX CULVERT
Bid Schedule No. 2, Bid Item No. 221

- 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 culvert 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, and disposing of the existing storm drain box culvert as shown on the drawings. Payment also includes excavation; supplying, installing, and compacting import granular backfill to the necessary grade under the direction of the engineer, and restoring any adjacent facilities disturbed by construction activities associated with this item

3.40 FURNISH AND INSTALL STORM STRUCTURE
Bid Schedule No. 2, Bid Item Nos. 222, 223, and 224

- A. Measurement shall be made on a per each (EA) basis. Measurement to be by actual field count of each type, and size of installed structure identified on the bid schedule and in the plan set.
- B. Payment shall be made per each price and shall include all costs for furnishing and installing each type of storm drain catch as a precast basin and box. Payment also includes excavation; concrete; supplying and installing all precast structures, risers, grates, and covers; additional cast-in-place concrete; grout; concrete collars for pipe connections; core drilling; connections to existing and/or new pipes; backfill material, installing material and compaction; and all other items needed to complete the work including cleaning and placing structures in service.

3.41 REMOVE AND REPLACE LID OF EXISTING 5'X13' BOX
Bid Schedule No. 2, Bid Item No. 225

- A. Measurement shall be made on a lump sum (LS) basis.
- B. Payment shall be made at the lump sum price and shall include all costs for removing and replacing the lid on an existing concrete box. Payment includes, but is not limited to, excavation; sawcut removal of lid as identified by OWNER and disposal of excess material, concrete, rebar, and other materials; additional sawcutting as necessary; reinforced concrete; risers; grates; covers; cast-in-place concrete and reinforcement; grout; connections to existing or new pipes and existing box culvert; rebar; furnish, install and compact backfill material; and all other items necessary to complete this item.

3.42 STORM DRAIN PIPE TRENCHING

Bid Schedule No. 2, Bid Item No. 226

- A. Measurement shall be per linear foot (LF) of trenching measured along the horizontal length of pipe laid.
- B. Payment shall be at the linear foot unit price bid and shall include all costs to furnish and stockpile the **import bedding and pipe zone material (Sewer Rock ASTM Size No. 4)**, Mirafi 140N Fabric to surround bedding and pipe zone material, stockpile and import granular 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, dewatering, and traffic control. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Trench width must be a minimum of 4' wide. 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. 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.

3.43 DETECTABLE WARNING SURFACE

Bid Schedule No. 2, Bid Item No. 227

- A. Measurement shall be per each (EA) basis. Measurement to be by actual field count of each detectable warning surface installed as identified on the bid schedule and in the plan set.
- B. Payment shall be at the per each price and shall include all cost for labor, materials, tools, and equipment required to furnish and install a 2 foot by 4 foot detectable warning surface that is gray in color. Also includes all other work necessary to complete this item to specifications, Ogden City Standards, and APWA standard plan #238.

3.44 REMOVE AND RELOCATE TRAFFIC SIGN

Bid Schedule No. 2, Bid Item No. 228

- A. Measurement shall be per each (EA) basis. Measurement to be by actual field count of each traffic sign removed and relocated as identified on the bid schedule and in the plan set.
- B. Payment shall be at the per each price and shall include all cost for labor, materials, tools, and equipment required to remove and relocate existing traffic sign, including but not limited to excavation; removal and relocating existing sign; installing new post; installing new sign if old is not to current size or retroreflective standards; furnish, install, and compact backfill material; and all other work necessary to complete this item.

3.45 REMOVE AND REPLACE EXISTING SEWER LATERAL

Bid Schedule No. 2, Bid Item No. 229

- A. Measurement shall be per each (EA) basis. Measurement to be by actual field count of each lateral relocation as identified on the bid schedule and in the plan set.
- B. Payment shall be per each price and shall include all cost for labor, materials, tools, and equipment required to remove and replace existing sewer laterals. Payment includes, but is

not limited to, furnishing and installing sewer lateral per Ogden City Standard Drawing SS-2 including couplings; gaskets; joints; lubricants; adaptors; plugs; supplying, installing, and compacting backfill materials; connection of the lateral to existing main; replacement of damaged connection at the main; installation of new cleanout; installation of the sewer lateral from the main connection to the cleanout at back of sidewalk; connection of the cleanout to existing lateral on the property side; dewatering; temporary plugging of sewer laterals; video inspection of new sewer lateral and providing footage to the city; pipe cutting; cleaning new lateral prior to acceptance by owner; disposal of all waste materials; restoration of utilities damaged as a result of operations; testing; and all other work necessary to complete this item.

3.46 LOWER, RAISE & COLLAR MANHOLE TO FINISH GRADE
Bid Schedule No. 2, Bid Item No. 230

- A. Measurement shall be per each (EA) basis. Measurement to be by actual field count of each manhole lowered, raised, and collared as identified on the bid schedule and in the plan set.
- B. Payment shall be per each price and shall include all cost for labor, materials, tools, and equipment required to lower, raise, and collar manhole to finish grade. Payment includes, but is not limited to, excavation; furnish, install and compact untreated base course; grade rings; removal and disposal of existing materials; concrete collar; and all other work necessary to complete this item.

3.47 REMOVE & SALVAGE FIRE HYDRANT
Bid Schedule No. 3, Bid Item No. 312

- A. Measurement shall be made per each (EA) fire hydrant assembly removed.
- 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 upon request. Also includes all excavation, legal disposal of waste materials, backfill and compaction, and restoring any existing landscape and/or sprinklers. 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.

3.48 REMOVE WATER VALVE BOX
Bid Schedule No. 3, Bid Item No. 313

- A. Measurement shall be per each (EA) water valve box removed.
- B. Payment shall be made at the unit price bid and shall include all costs to close valves to be abandoned, removing valve box and lid, noting location of valve to Ogden City Water Department, and burying the existing valve. Payment includes all costs to compact appropriate backfill and roadbase material and preparation for asphalt paving.

3.49 REMOVE WATER VALVE

Bid Schedule No. 3, Bid Item No. 314

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

3.50 WATER LINE PIPE TRENCHING

Bid Schedule No. 3, Bid Item No. 315

- A. Measurement shall be per linear foot (LF) of trenching measured along the horizontal length of pipe laid.
- B. Payment shall be at the unit price bid and shall include all costs to furnish and stockpile the sand and import granular backfill (APWA - 2" Minus Granular Fill Borrow); excavate the trench; place, shape, compact and prepare the material around the pipe; mechanically compact sand around pipe haunches and prepare the sand in the trench (depth of lifts not to exceed 8 inches); provide compaction and gradation tests; and provide certified scale tickets for the material delivered. All trenching is to conform to Ogden City Standards for material, placement, depth, and compaction. Import sand shall be placed a minimum of six (6) inches below the pipe and 12 inches above the pipe compacted in eight (8) inch lifts. The import granular backfill borrow shall be placed directly above the import sand to the bottom of the untreated base course layer.

3.51 8" PVC C-900 DR18 PIPE

Bid Schedule No. 3, Bid Item No. 316

- A. Measurement shall be made per linear foot (LF) of 8 INCH PVC C-900 DR18 water line installed as measured from the connection point to the connection point along the centerline of the pipeline.
- B. Payment shall be made at the linear foot price bid and shall include all costs to coordinate construction, 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, 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 with 8Mil 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 to Ogden City W-16 standard drawing.

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 (CD14BTor approved equal) according to Ogden City standard W-1B.
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. 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.

3.52 8" GATE VALVE (CLASS 250)
Bid Schedule No. 3, Bid Item No. 317

- A. Measurement shall be per each (EA) 8-inch gate installed as shown on the drawings.
- B. Payment shall be at the unit price bid and shall include all costs to furnish and install the valves.
- C. Payment includes all costs to construct MEGA-LUG thrust restraint followers or approved equal on the mechanical joint ends. Payment includes costs for flanged valves, if used, instead of mechanical joint valves. The payment includes the cost to furnish and install the cast iron screw type valve box CI-550 or equal and cover per plans and specifications. Payment shall include raising the valve box to final grade and providing the 12-inch thick, 12-inch wide, concrete collar around the cover. Payment also includes the cost of a new box and lid if the existing box is damaged during or prior to construction.

3.53 CONNECT TO EXISTING WATER LINE
Bid Schedule No. 3, Bid Item No. 318

- A. Measurement shall be made per each (EA) connection made to the existing water main.
- B. Payment shall be made at the unit price bid and shall include all costs 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 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.

- 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 to provide for the finish street structure.

**3.54 FIRE HYDRANT ASSEMBLY
Bid Schedule No. 3, Bid Item No. 319**

- 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, any required looping of the 6-inch ductile iron pipe, 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 screw type valve boxes (CI-550 or equal), 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; sewer rock; geotextile wrap; and all other materials/labor necessary to install new fire hydrant assembly according to Ogden City Standard Drawings W-1A, W-1B, & W-2.

**3.55 1-INCH CTS PEXa (REHAU MUNICIPEX OR APPROVED EQUAL) WATER
LATERAL (BORE OR PULL), Bid Schedule No. 3, Bid Item No. 320**

- A. Measurement shall be made per linear foot (LF) water service connection removed and replaced to the new meter box by boring or pulling.
- B. Payment shall be made at the unit price bid for each service and connection and shall include all costs to furnish and install the fittings necessary to complete the connection between the new C-900 DR18 PVC pipe and the new 1-inch meter. Payment includes all costs to locate and excavate the existing service laterals, furnishing and installing a corporation stop for all service connections made to the new C-900 DR18 PVC and includes stainless steel saddles to make connection, bore or pull new 1-inch PEXa water line with tracer wire. Cut, cap and abandon in place existing water lateral service and remove and legally dispose of removed pipe or lateral.
- C. 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 costs for excavation, backfill and compaction, compaction testing, blue staking, potholing, legal waste disposal.

- D. Payment includes the contractor providing 48-hour advanced notice to the property owner of the water outage. All new connections to existing services shall be made only after both the C-900 DR18 PVC main and intersection connections have passed bacteria/disinfection and pressure tests AND the approval of Ogden City is granted.

3.56 1-INCH CTS PEXa (REHAU MUNICIPEX OR EQUAL) WATER LATERAL (OPEN TRENCH), Bid Schedule No. 3, Bid Item No. 321

- A. Measurement shall be made per linear foot (LF) water service connection removed and replaced by open trench.
- B. Payment shall be made at the unit price bid for each service and connection and shall include all costs to furnish and install the fittings necessary to complete the connection between the new C-900 DR18 PVC pipe and the new 1-inch meter. Payment includes all costs to locate and excavate the existing service laterals, furnishing and installing a corporation stop for all service connections made to the new C-900 DR18 PVC including stainless steel saddles to make connection, open cut up to 60 linear feet of new 1-inch PEXa water line with tracer wire. Remove existing water lateral service and legally dispose of removed pipe or lateral.
- C. Contractor to pothole to verify the pipe material and size of existing water services at each location prior to ordering parts and fittings. No additional payment will be made for parts order of incorrect material or size. Payment includes all costs to excavate, bore, pull new service lateral; pothole the existing lateral to verify size, depth, and material of existing lateral
- 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 costs for excavation, backfill and compaction, compaction testing, blue staking, potholing, legal waste disposal.
- E. Payment includes the contractor providing 48-hour advanced notice to the property owner of the water outage. All new connections to existing services shall be made only after both the C-900 DR18 PVC main and intersection connections have passed bacteria/disinfection and pressure tests AND the approval of Ogden City is granted.
- F. This item shall only be paid for as approved by the ENGINEER after boring/pulling is unsuccessful or directly specified in plans.

**3.57 TYPE 1 – 1-INCH WATER METER ASSEMBLY
Bid Schedule No. 3, Bid Item No. 322**

- A. Measurement shall be made per each (EA) culinary water meter assembly replaced.
- B. Payment shall be at the unit price bid and shall include all costs to coordinate water system shut down with the Ogden City water department, providing 48-hour written notice to homeowner of water outage. Payment shall also include all costs and materials to excavate and locate the existing culinary water service line; cut the existing service; - remove and salvage the existing meter box assembly, frame and cover, and plugging and blocking the end of the service to be abandoned. Payment includes installing the new Raven water meter box, reconnecting the 1-inch water meter, new back flow, connection to house side service lateral, connection to main line with tracer wire, sewer rock and sand,

- 18-inch frame and cover behind the new curb or sidewalk per Ogden City Plan W-3.
- C. Payment also includes any necessary backfill and compaction, compaction testing, including a compaction test at each location where the lateral crosses the proposed curb & gutter location. Payment also includes all associated fittings, materials, and work items incidental to completing this bid item.
 - D. Payment includes the installation of water service/meter location “buttons” on the face of curb provided by the Water Department.

3.58 SURVEY MONUMENT

Bid Schedule No. 1, & No. 2, Bid Item No. 134, & 323

- A. Measured per Each (EA).
- B. Payment covers materials and procedures for removal and installation of new boundary markers and survey monuments. Payment shall constitute full compensation for all materials and labor required to remove the existing monument and install a new monument according to the performance requirements, submittals, quality assurance, products and execution of this item. (Refer to APWA Section 31 05 10, Utah Code Title 17, Chapter 23, Section 17: Map of Boundary Survey-Procedure for Filing-Contents-Marking of Monuments and Ogden City Standard Drawings SUR-1, SUR-2, SUR-3).
- C. Contractor must coordinate with the City Surveyor prior to removal of any monuments. Contact Steve Porter at (801) 629-8971.

3.59 PAVEMENT STRIPING AND MARKINGS

Bid Schedule No. 1, Bid Item No. 135

- A. Measured per Lump Sum (LS).
- B. Payment covers the cost of labor, materials, tools, and equipment required to return street striping, markings, and symbols to existing conditions. (Refer to Section 02765)

3.60 FLOWABLE FILL

Bid Schedule No. 1, Bid Item No. 136

- A. Measured per linear foot (LF).
- B. Payment: Covers the cost per linear foot to furnish and install flowable fill (UDOT Section 03575) as a substitute for import trench fill 2” minus backfill. Payment for this item shall include all labor, tools, equipment, testing, and materials needed to complete work for this item.

3.61 REMOVE CONCRETE FLATWORK

Bid Schedule No. 1, Bid Item No. 137

- A. Measured per square yard (SY).
- B. Payment: Covers all costs associated with the removal and proper disposal of concrete flatwork or substrate. (Refer to APWA Section 02 41 14)

END OF DOCUMENT