

SECTION 00 90 10

ADDENDUM No. 1



PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Changes to Document 00 41 10 Bid Schedule
- B. Changes to Document 00 41 50 Contract Time

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as 28th Street Utility Improvements Project
- A. Date of this Addendum is April 2nd, 2024

PART 2 CHANGES

2.1 CHANGES TO PRIOR ADDENDA

- A. None

2.2 CHANGES TO BIDDING REQUIREMENTS

- A. Bid Schedule No.2
 - 1. Bid Item No. 212 — 29" x 45" (36" EQUIVALENT) ELLIPTICAL RCP CLASS IV
 - i. Changed the Bid Item Description by removing the verbiage "CLASS V" and replacing with the verbiage "CLASS IV"
- B. Bid Item No. 124 — INSTALL RMP CONDUIT
 - 1. Measure and Payment section 3.23 Part D
 - i. Added the verbiage "mule tape installed through the entire length of conduit for location purposes, and repairing any damage to the sprinkler system caused by the CONTRACTOR"
- C. Added new bid item to Bid Schedule 1
 - 1. Bid Item No. 125 – INSTALL SOD – 1600 SF
 - 2. Added new bid item measure and payment to Part 3 Measure and Payment under section 3.24

2.3 CHANGES TO AGREEMENT AND OTHER CONTRACT FORMS

- A. None

2.4 CHANGES TO CONDITIONS OF THE CONTRACT

- A. Changed Document 00 41 50 Contract Time, Part 1.4 A
 - 1. Changed 120 calendar days to 100 calendar days as the Engineers estimated calendar days required to substantially complete the work.

2.5 CHANGES TO SPECIFICATIONS

A. None

2.6 CHANGES TO DRAWINGS

A. None

2.7 CLARIFICATIONS

A. The deadline for substantial completion is Friday August 16th, 2024. The project is considered substantially complete after all utility work, curb and gutter, UTBC road base installation work is complete. The concrete flatwork and landscape restoration does not need to be completed before substantial completion, but must be completed within 30 days after substantial completion.

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:
28th Street Utility Improvements 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 BASE BID

- A. Bid Schedule No. 1, No. 2 & No. 3 below describes work basic to the Contract.

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BID SCHEDULE No. 1 – Base Bid Roadway Improvements
28th St Grant to Lincoln Ave, 28th Street Utility Improvements Project

| ITEM NO. | DESCRIPTION | EST QTY | UNIT | UNIT PRICE | AMOUNT |
|----------|---|---------|------|------------|--------|
| 101 | MOBILIZATION | 1 | LS | | |
| 102 | TRAFFIC CONTROL | 1 | LS | | |
| 103 | SWPP PLAN, CLEANING, DUST CONTROL, WATERING | 1 | LS | | |
| 104 | CONSTRUCTION STAKING AND SURVEYING | 1 | LS | | |
| 105 | UTILITY INVESTIGATION | 5 | HRS | | |
| 106 | REMOVE ASPHALT PAVEMENT | 3350 | SY | | |
| 107 | ROADWAY EXCAVATION | 1700 | CY | | |
| 108 | DEMO CURB AND GUTTER | 440 | LF | | |
| 109 | DEMO CONCRETE FLATWORK | 4100 | SF | | |
| 110 | REMOVE LANDSCAPING | 1 | LS | | |
| 110a | UNCLASIFIED EXCAVATION | 200 | CY | | |
| 111 | REMOVE TREE | 7 | EA | | |
| 112 | APWA SPEC ROADBASE (1" MINUS) | 2100 | CY | | |
| 113 | TEMPORARY ASPHALT (2" THICK) | 100 | TONS | | |
| 114 | ADA TRUNCATED DOMES (GRAY) | 11 | EA | | |
| 115 | INSTALL CONCRETE FLATWORK (6" THICK) | 3600 | SF | | |
| 116 | INSTALL CONCRETE FLATWORK (4" THICK) | 2100 | SF | | |
| 117 | INSTALL CONCRETE DRIVE APRON (6" THICK) | 284 | SF | | |
| 118 | INSTALL TYPE A CURB AND GUTTER | 800 | LF | | |
| 119 | INSTALL TYPE F CURB AND GUTTER | 251 | LF | | |
| 120 | INSTALL TRANSITION CURB AND GUTTER | 140 | LF | | |
| 121 | INSTALL TYPE P CURB WALL | 60 | LF | | |
| 122 | LOWER SEWER MANHOLE | 4 | EA | | |
| 123 | REMOVE CITY MONUMENT | 2 | EA | | |
| 124 | INSTALL RMP CONDUIT | 750 | LF | | |
| 125 | INSTALL SOD | 1600 | SF | | |

Total Schedule 1 = \$ _____

Schedule 1 Total in Words _____

Signature _____

BID SCHEDULE No. 2 – Base Bid Storm Utility Improvements
28th St Grant to Lincoln Ave & Lincoln Ave Doxey to 27th St, 28th Street Utility Improvements Project

| ITEM NO. | DESCRIPTION | EST QTY | UNIT | UNIT PRICE | AMOUNT |
|----------|---|---------|------|------------|--------|
| 201 | UTILITY INVESTIGATION | 5 | HRS | | |
| 202 | REMOVE ASPHALT PAVEMENT | 360 | SY | | |
| 203 | REMOVE STORM STRUCTURE | 9 | EA | | |
| 204 | REMOVE STORM PIPE | 270 | LF | | |
| 205 | REMOVE STORM CULVERT | 130 | LF | | |
| 206 | REMOVE COMBINED CURB & GUTTER AND WATERWAY | 720 | LF | | |
| 207 | 2x3 CATCH BASIN w/ CURB INLET | 5 | EA | | |
| 208 | 2.5x4 CATCH BASIN w/CURB INLET | 1 | EA | | |
| 209 | 4x6 COMBINATION BOX w/CURB INLET | 3 | EA | | |
| 210 | 60" STORM MANHOLE | 1 | EA | | |
| 211 | 72" STORM MANHOLE | 1 | EA | | |
| 212 | 29"x 45" (36" EQUIVALENT) ELLIPTICAL RCP CLASS IV | 760 | LF | | |
| 213 | 15" RCP STORM DRAIN CLASS III | 440 | LF | | |
| 214 | 15" RCP STORM DRAIN CLASS V | 120 | LF | | |
| 215 | 4' WIDE STEEL PLATE (1/2" THICK) | 20 | LF | | |
| 216 | CAST IN PLACE CONCRETE TRANSITION PIPE TO CULVERT | 8 | LF | | |
| 217 | ASPHALT "T" PATCH (HMA PG 58-28 SP - 1/2) 7" THICK | 133 | TONS | | |
| 218 | APWA 3" MINUS PIT RUN (GRANULAR BORROW) | 1270 | TONS | | |

Total Schedule 2 = \$ _____

Schedule 2 Total in Words _____

Signature _____

BID SCHEDULE No. 3 – Base Bid Water Utility Improvements
28th St Grant to Lincoln Ave, 28th Street Utility Improvements Project

| ITEM NO. | DESCRIPTION | EST QTY | UNIT | UNIT PRICE | AMOUNT |
|----------|---|---------|------|------------|--------|
| 301 | UTILITY INVESTIGATION | 5 | HRS | | |
| 302 | REMOVE & REPLACE CONCRETE FLATWORK & APRON (6" THICK) | 250 | SF | | |
| 303 | REMOVE WATER VALVE BOX | 9 | EA | | |
| 304 | REMOVE FIRE HYDRANT ASSEMBLY | 3 | EA | | |
| 305 | 1" WATER METER ASSEMBLY | 5 | EA | | |
| 306 | 8" PVC C900 DR-18 PIPE | 1040 | LF | | |
| 307 | 8" GATE VALVE (CLASS 250) | 9 | EA | | |
| 308 | 1" AWWA C901 WATER LATERAL | 265 | LF | | |
| 309 | EXISTING WATER MAIN CONNECTION | 5 | EA | | |
| 310 | INSTALL FIRE HYDRANT ASSEMBLY | 3 | EA | | |
| 311 | APWA 3" MINUS PIT RUN (GRANULAR BORROW) | 1050 | TONS | | |

Total Schedule 3 = \$ _____

Schedule 3 Total in Words _____

Signature_____

Grand Total Schedules 1, 2 & 3 = \$ _____

Grand 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 101

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

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

3.3 TRAFFIC CONTROL, Bid Item 102

- A. Measured by lump sum (LS).
- B. Payment covers traffic control plan (accepted by Ogden City), traffic control technician, flaggers (if necessary), temporary pavement markings, signs, barricades, and all traffic control devices (Refer to Section 01 55 26, Traffic Control) meeting MUTCD and Ogden City Standards. The traffic control plan shall be stamped by a Professional Engineer and submitted to both Emergency service and Ogden City's traffic engineer for approval.
- C. 28th Street between Grant Ave and Lincoln Ave is expected to be closed to thru traffic during the project.
- D. Payment covers any necessary Contractor coordination with UTA for construction constraints on bus service on 28th Street. Payment will be made on a percentage basis as follows.

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

3.4 SWPP PLAN, SITE CLEANING, DUST CONTROL, WATERING, Bid Item 103

- A. Measured by lump sum (LS).
- B. Payment covers the CONTRACTOR in obtaining coverage and following all requirements of the State of Utah DWQ General Permit for Storm Water Discharges from Construction Activities or the "Construction General Permit" (CGP). Permit No. UTRC00000 found at: <https://documents.deq.utah.gov/water-quality/stormwater/construction/DWQ-2020-013890.pdf>. The CONTRACTOR will be listed as an Operator and Ogden City will be listed as the Owner. Payment covers the CONTRACTOR to meet all requirements of the CGP. Requirements of this permit include, but are not limited to:
 - a. Preparation and maintenance of a storm water pollution prevention plan (SWPPP). The SWPPP must be submitted to and approved by City prior to beginning construction.
 - b. Submitting a Notice of Intent (NOI) prior to construction.
 - c. Maintaining active permit coverage throughout all phases of construction. It is the responsibility of the CONTRACTOR to ensure that permit coverage does not expire. Once the site meets the conditions for terminating CGP coverage, the CONTRACTOR must pass a final inspection with the City SWPPP inspector prior to submitting the Notice Of Termination (NOT) to DWQ.
 - d. Installing and maintaining all storm water Best Management Practices (BMPs) in accordance with the approved SWPPP that are not listed as separate bid items, which may include; silt fence, construction fencing, inlet protection, inlet clean-out (if necessary).
 - e. Performing necessary Contractor SWPPP inspections in accordance with the SWPPP.

- f. Maintaining all required documentation (inspection reports, corrective action reports, SWPPPs, etc.). Ogden City may request documents associated with the project for up to three years from the date the site is finalized.
- C. The CGP outlines the required steps for preparing and maintaining the SWPPP, provides guidelines, examples, templates, BMP specifications, etc.
- D. Payment shall cover dust control/watering of the site, daily maintenance of the construction zone, **daily sweeping at a minimum**, maintaining BMP devices, and maintaining general cleanliness of the site and staging areas during the construction process to the satisfaction of the City. Trenches shall be maintained at all times to avoid ruts larger than a 2-inch depth.
- E. Payment shall cover temporary water meter rental fees billed to the Contractor from the City. Contractor will NOT be billed for water usage for the project but must utilize a meter to obtain City water for the project.

3.5 CONSTRUCTION STAKING AND SURVEYING, Bid Item 104

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

3.6 UTILITY INVESTIGATION, Bid Items 105, 201, & 301

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

3.7 REMOVE ASPHALT PAVEMENT, Bid Items 106 & 202

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

3.8 ROADWAY EXCAVATION, Bid Item 107

- A. Measured by cubic yard (CY) .
- B. Payment includes all costs incidental to roadway excavation. Pay quantities will be computed in the original position to the neat lines and grades or pay limits of excavation specified using the given

plan quantities.

- C. Roadway excavation includes the removal of all items including, but not limited to, native soil, dirt fill, rocks, boulders, tree roots, and any other material removed to the designed depth for the proposed engineered roadway. Includes the hauling and disposal of excavated material.
- D. This item does not include the removal of existing roadway asphalt within the proposed roadway area
- E. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- F. Item includes the additional material excavated below bottom of subgrade level for the purpose of soft spot repair (extra excavation must be authorized by the ENGINEER), measurement of quantities for payment shall be made to the following **pay limits**.
 - 1. Upper limit of excavation is the proposed excavation limit.
 - 2. Lower and lateral limits are as authorized by ENGINEER.

3.9 DEMO CURB AND GUTTER, Bid Item 108

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

3.10 DEMO CONCRETE FLATWORK, Bid Item 109

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

3.11 REMOVE LANDSCAPING, Bid Item 110

- A. Measured by lump sum (LS).
- B. Payment includes the removal of landscaping material within the landscape areas in the existing parkstrip and back of walk to the grade directly below proposed UTBC. Excavated backfill material may be used as fill at locations outside of the roadway section as allowed by the ENGINEER. Includes disposal of excess excavated material.
- C. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- D. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

3.12 UNCLASSIFIED EXCAVATION, Bid Item 110a

- A. Measured by cubic yard (CY).
- B. Payment includes the removal of rough grade below landscaping. Excavated backfill material may be used as fill at locations outside of the roadway section as allowed by the ENGINEER.
- C. Excavation completed for CONTRACTOR'S benefit or excavation error, dewatering of excavation slough or overbreak is incidental work.
- D. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.

3.13 REMOVE TREE, Bid Item 111

- A. Measured per each tree removed including the stump (EA)
- B. Payment includes removal and disposal of tree and stump and grinding of stump. Contractor shall remove stump and root 12 inches below existing ground or base of proposed grade (ex. base of pavement section or base of driveway UTBC) whichever is greater.

3.14 APWA SPEC ROADBASE (1" MINUS), Bid Item 112

- A. Measurement will be made by cubic yards (CY) of untreated base course (UTBC) placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, aggregate base course, labor, hauling, placement, compaction, and testing to produce an acceptably deep aggregate base course layer per Ogden City Standard Drawings RD-3 and project plan specified thickness. Payment covers the cost of installing the full thickness of aggregate base course layer and preparation for pavement and/or concrete installation. (Refer to Section 33 05 25, Pavement Restoration).
- C. Payment covers the cost of all grading, compaction, and testing to finish grade before concrete pour and/or before asphalt paving.
- D. No payment will be made for UTBC purchased and installed as the backfill material in a utility pipe zone or as a temporary construction measure.
- E. Aggregate base course shall be untreated. Recycled roadbase (or any recycled material) will NOT be accepted for roadbase on the project.

3.15 TEMPORARY ASPHALT (2" THICK), Bid Item 113

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications. Asphalt shall be Class II per Section 32 12 15 SP.
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat equipment, labor, hauling, placement, compaction, and testing. 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 per Ogden City Standards). Refer to Section 32 12 15 SP, Bituminous Concrete for more details.

3.16 ADA TRUNCATED DOMES (GRAY), Bid Item 114

- A. Measurement shall be per each detectible warning surface pad (EA) at the ADA ramps as identified on the bid schedule and in the plan set.
- B. Payment shall be at the per each price and shall include all costs for labor, materials, tools, and equipment required to furnish and install the 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.

3.17 INSTALL CONCRETE FLATWORK (6" THICK), Bid Item 115

- A. Measurement will be made by square foot (SF) of 6" concrete sidewalk installed.
- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor, incidental to the placement, compaction, rebar, dowelling, and jointing to install concrete sidewalk and pedestrian access ramps in accordance with Ogden City Standards (Refer to Section 32 16 13, Sidewalk).
- C. Payment also includes expansion joints, compaction, testing, and special formwork and finish work on the sidewalk/pedestrian ramp.
- D. Payment includes concrete flatwork for pedestrian ramps (6" thick). The curb/gutter along the pedestrian ramp will not be included in the square footage.
- E. Payment includes sealing the concrete with a curing compound.

3.18 INSTALL CONCRETE FLATWORK (4" THICK), Bid Item 116

- A. Measurement will be made by square foot (SF) of 4" concrete sidewalk installed.
- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor, incidental to the placement, compaction, rebar, dowelling, and jointing to install concrete sidewalk in accordance with Ogden City Standards (Refer to Section 32 16 13, Sidewalk).
- C. Payment also includes expansion joints, compaction, testing, and special formwork and finish work on the sidewalk.
- D. Payment includes sealing the concrete with a curing compound.

3.19 INSTALL CONCRETE DRIVE APRON (6" THICK), Bid Item 117

- A. Measurement will be made by square foot (SF) of 6" concrete drive approach installed.
- B. Payment covers the cost of furnishing all necessary materials, equipment, and labor, incidental to the placement, compaction, and jointing to install concrete drive approach in accordance with Ogden City Standards (Refer to Section 32 16 13, Drive approach).
- C. Payment also includes expansion joints, compaction, testing, and special formwork and finish work on the sidewalk/pedestrian ramp.
- D. The curb/gutter along the drive approach will not be included in the square footage.
- E. Payment includes sealing the concrete with a curing compound.

3.20 INSTALL CURB & GUTTER, Bid Items 118-121

- A. Measurement will be made by linear foot (LF), measured along the top back of curb (TBC).
- B. Payment covers the cost of furnishing all necessary materials and equipment, labor, formwork, compaction, testing, concrete placement and finish work and all other work incidental for installing concrete curb and gutter.
- C. Payment includes formwork, joints, expansion, and dowelling into the existing curb and gutter
- D. Payment includes sealing the concrete with a curing compound.

3.21 LOWER SEWER MANHOLE, Bid Item 122

- A. Measurement will be made per each (EA) sewer manhole lowered for the future asphalt mill and pave.
- B. Payment covers all tools, labor, materials, and equipment to lower existing manhole to not be in conflict with future asphalt mill and pave. The future mill and pave will not be performed per this contract.

3.22 REMOVE CITY MONUMENT, Bid Item 123

- A. Measured by each city monument (EA) removed.
- B. Payment includes all costs and equipment incidental to city monument removal and disposal. Includes any necessary approved backfill of import fill up to the necessary grade directly below UTBC or under the direction of the ENGINEER.
- C. Payment also includes any hauling, labor, disposal, compaction and testing which may be required by the ENGINEER.
- D. Before city monument removal, CONTRACTOR must coordinate with the City surveyor Steve Porter 801-629-8979 to assure he has obtained all necessary survey data before removal.

3.23 INSTALL RMP CONDUIT, Bid Item 124

- A. Measurement will be made per linear foot (LF)
- B. Payment covers all tools, labor, materials, and equipment to excavate an open trench and install a 3" diameter conduit buried between 24" to 48" in a minimum trench width of 12" wide. 3" conduit material shall be PVC or Fiberglass. Includes 3" diameter fiberglass sweeps at a radius of 36".
- C. Locations of buried conduit will be back of proposed sidewalk in the landscape area within the RMP easement identified by the ENGINEER, and also trenched across 28th Street and Lincoln Ave at locations identified by the ENGINEER.
- D. Payment includes trench excavation, furnish and install conduit, joints, elbows, and glue; ¾" minus backfill material 4" below and 4" above conduit, buried caution tape installed 12"-18" above conduit (caution tape shall be red in color with black text "CAUTION BURIED ELECTRIC LINE BELOW"), mule tape installed through the entire length of conduit for location purposes, and repairing any damage to the sprinkler system caused by the CONTRACTOR.
- E. Native backfill material may be used as trench backfill in proposed landscape areas only as approved by the ENGINEER. 3" Minus granular borrow backfill material shall be used as trench backfill within the roadway section (import 3" minus granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items).
- F. Payment includes any hauling, labor, disposal, compaction, and testing required by the ENGINEER. All joints shall be compressed to the depth of the coupling system and glued. Where straight end and bell ends are joined, the straight end shall be beveled so as not to become an obstacle to mandrels or pulled cable.

3.24 INSTALL SOD, Bid Item 125

- A. Measured by square foot (SF)
- B. Payment includes all costs, labor and equipment incidental to the installation of new sod landscape.
- C. Payment also includes the installation of top soil, slope grading of top soil to a minimum uniform

thickness of 4" thick, and sod installation that smoothly transitions to existing sod landscape; restoring sprinkler heads to their previous locations and spray directions, and repairing any part of the sprinkler system damaged by the CONTRACTOR.

3.25 REMOVE STORM STRUCTURE, Bid Item 203

- A. Measured by each structure (EA) removed.
- B. Payment includes all costs and equipment incidental to catch basin/manhole/junction box/inlet removal, hauling, disposal, compaction and testing
- C. The import granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items.

3.26 REMOVE STORM PIPE, Bid Item 204

- 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. Existing pipe removed is between 6"-15" diameter.
- 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, compaction and testing of import backfill material.
- C. The import granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items.

3.27 REMOVE STORM CULVERT, Bid Item 205

- 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 culvert 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 culvert as shown on the drawings, compaction and testing of import backfill material.
- C. The import granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items.

3.28 REMOVE COMBINED CURB & GUTTER AND WATERWAY, Bid Item 206

- 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 culvert where no structure exists. Existing culvert is approximately 32"x 24" with the existing C&G as the culvert cap (see 28th St Utility Improvements Project plansheet sheet DT1)
- 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 combined curb and gutter and waterway storm culvert as shown on the drawings and DT1.
- C. Payment includes the removal, hauling, and disposal of the curb grating within the curb and gutter cap (see DT1). Includes compaction and testing of import backfill material.
- D. The import granular borrow backfill material and untreated base course is not included and shall be

billed under their separate bid items.

3.29 FURNISH AND INSTALL STORM STRUCTURE (CATCH BASIN W/ CURB INLET, COMBO BOX, MANHOLE), Bid Items 207-211

- 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, compaction, testing, and any other items required in standard drawings.
- C. The connection of existing or new pipe or other drainage feature to the storm structure will be incidental to construction and no separate payment will be made for this work.
- D. The import granular borrow backfill material and untreated base course material is not included and shall be billed under their separate bid items.

3.30 INSTALL REINFORCED CONCRETE PIPE, Bid Items 212-214

- 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 root removal; concrete pipe collars, 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, stockpile, and install the import bedding and haunching material (1" sewer rock); excavate the trench; excavation for bells; place, shape, 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 haunching 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. There will be no payment for over excavation unless approved in written form by the engineer prior to the excavation.
- D. The import granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items.
- E. Payment covers the cost of compaction, 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. Includes costs to clean and video camera the storm drain line after installation. Storm pipe must be video inspected prior to acceptance by the City.

3.31 4' WIDE STEEL PLATE (1/2" THICK), Bid Item 215

- A. Measurement will be per linear foot (LF) of 4' wide steel plate.
- B. Payment includes all necessary materials, labor, equipment and tools required to furnish and install a 4' (foot) wide, 1/2" thick galvanized steel plate on top of existing storm culvert/concrete transition from the culvert to the new elliptical RCP where the old curb and gutter "cap" was removed. Payment also includes a neoprene pad installed on top of the existing concrete ditch and directly beneath the steel plate, and two (2) 1/2" diameter headed studs welded to the steel plate every 4 linear feet of steel plate installed. Includes any concrete grinding to the tops of the existing culvert walls to assure flush contact with the pad/steel plate and culvert (Please refer to 28th St Improvements Project Plansheet DT-2).

3.32 CAST IN PLACE CONCRETE TRANSITION PIPE TO CULVERT, Bid Item 216

- A. Measurement will be per linear foot (LF).
- B. Payment includes all necessary materials, labor, equipment and tools required to construct and install a cast in place concrete transition structure from the existing storm culvert to the new elliptical RCP. Payment also includes doweling and installation of reinforcement #4 rebar at 12" (inches) off center in both directions (Please refer to 28th St Improvements Project Plansheet DT-2).
- D. Payment includes all prepwork, formwork, placement and finish work of the concrete to match existing culvert flowline to new RCP flowline. Includes costs for bedding and haunching material and installation, compaction, and testing of pipe zone material and concrete.
- E. Concrete shall be obtained from batched concrete (i.e. Jack B. Parsons, Geneva, etc.), minimum 6.5 bag, class 4000.
- F. The import granular borrow backfill material and untreated base course is not included and shall be billed under their separate bid items.

3.33 ASPHALT "T" PATCH (HMA PG 58-28 SP1/2") 7" THICK, Bid Item 217

- A. Measurement will be made by tons (TONS) of HMA placed per project plans and specifications. Asphalt shall be Class II per Section 32 12 15 SP.
- B. Payment covers the cost of furnishing all necessary materials, asphalt, tack coat equipment, labor, hauling, placement, compaction, and testing to produce an acceptably deep excavation asphalt section 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 per Ogden City Standards). Refer to Section 32 12 15 SP, Bituminous Concrete for more details.
- C. Asphalt thickness shall match existing asphalt thickness plus 1", not to exceed 7" thick. T Patch shall follow Engineering Standard drawing RD-3

3.34 APWA 3" MINUS PIT RUN (Granular Borrow), Bid Items 218 & 311

- A. Measurement will be made by tons (TONS) of 3" Minus structural granular borrow material imported, placed and compacted.
- B. Payment covers the cost of furnishing all necessary materials, granular borrow, labor, hauling, placement, compaction, and testing to produce an acceptably deep structural fill layer per Ogden City Standard Drawings RD-3
- C. Item will be used as utility pipe zone backfill material and trench backfill up to the proposed grade

up to the proposed grade directly below UTBC level.

3.35 REMOVE & REPLACE CONCRETE FLATWORK & APRON (6" THICK), Bid Item 302

- A. Measurement will be made by square foot (SF) of 6" concrete flatwork and drive approach removed and replaced.
- B. Payment covers the cost of furnishing all necessary materials, equipment, labor, hauling, and disposal incidental to the removal and replacement of concrete flatwork and drive approach (6" thick) in accordance with Ogden City Standards (Refer to Section 32 16 13, sidewalk, Drive approach).
- C. Payment also includes expansion joints, compaction, testing, and special formwork and finish work on the sidewalk/drive approach.
- D. The curb/gutter along the drive approach will not be included in the square footage.
- E. Payment includes sealing the concrete with a curing compound.

3.36 REMOVE WATER VALVE BOX, Bid Item 303

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

3.37 REMOVE FIRE HYDRANT ASSEMBLY, Bid Item 304

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

3.38 1" WATER METER ASSEMBLY, Bid Item 305

- A. Measurement will be made by actual count per each installed (EA).
- B. Payment covers the cost of excavation, potholing, and new meter setter materials (sand fill compacted) and devices; acquisition and installation of new Raven meter box, ring & cover, removal and disposal of existing meter assembly and meter box, extension of the service lateral from the new meter to the old meter location, connection of the new water lateral to the servicing meter in-line with the existing service connections, removal or abandonment of the existing water lateral tubing, disinfection and commissioning of the lateral; and other miscellaneous devices, materials, or equipment required for a complete installation; all in accordance with Ogden City Standard Drawing W-3. Note, the majority of existing meters are 5/8" or 3/4". Payment includes the necessary adaptors to connect the new 1" line to the existing meter and piping/materials necessary to connect to the house side of the meter assembly. Ogden City's Water Department Approved Materials List should be consulted for acceptable equipment types. (Refer to Section 33 12 33, Water Meter), acceptable dual check valve – Ford HHCA34-444-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 furnishing and installing the necessary service saddle and associated tap. Service saddles shall be nylon coated with double stainless steel straps
- E. Payment covers furnishing and installing the appropriate corp stop, saddle, and meter connections. Corp stops shall be either Mueller or Ford ball valve type with T-cap head adaptors.

3.39 8” PVC C900 DR-18 PIPE, Bid Item 306

- 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, dewatering, 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 & 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 (CD14BTor 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 unless Contractor fails 2 or more tests). Payment includes all costs associated with dust control including evenings and weekends between 7:00 am and 9:00 pm, or as required by the City Engineer.
- C. Payment shall include all trenching costs associated with this item including all import pipe bedding (material and placement), backfilling, compaction, and testing. 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 3” Minus Granular Fill Borrow (separate bid item) or better.

3.40 8" GATE VALVE CLASS 250, Bid Item 307

- A. Measurement will be made by actual count per each EA valve installed.
- B. Payment covers the cost of excavation, foundation preparation, restraint devices, cast iron slip-type valve boxes per Ogden City Standards and project plan details. Payment covers traffic lids, valve, backfill labor, compaction, testing, and other miscellaneous devices, materials, or equipment required for a complete installation. Ogden City's Water Department Approved Materials List should be consulted for acceptable valve types. (Refer to Section 33 12 16, Water Valves).
- C. Valves shall be greased (bolts) and fully wrapped up to the nut. Documentation of wrapped valve is required prior to backfill.
- D. All new valves installed shall not be brought up to proposed surface grade but remain lowered for the future mill and pave not included in this contract.

3.41 1" AWWA C901 SERVICE LATERAL, Bid Item 308

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

3.42 EXISTING WATER MAIN CONNECTION, Bid Item 309

- 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, backfilling placement (material under separate bid item), compaction, compaction testing, blue staking, potholing, legal waste disposal, all landscaping related and sod

restoration not covered under other items, and plugging and blocking the end of the mains to be abandoned, and all associated work items required to complete this bid item. Total length of pipe for connection shall not exceed 20 feet.

- E. Payment includes all connection pieces to be properly swabbed and disinfected with chlorine.
- F. Payment shall be made at the unit price bid and shall include all costs to remove the existing pipe, saw-cut, remove, and legally dispose of pipe waste materials; plugging of existing pipes as required on the plans; provide trench excavation with legal disposal of excavated waste materials, shoring or stabilization, and de-watering; excavate existing excess material.

3.43 INSTALL FIRE HYDRANT ASSEMBLY, Bid Item 310

- A. Measurement will be made by actual count per each (EA) installed.
- B. Payment covers the cost of excavation, soil preparation, potholing, installing the new fire hydrant with surface coatings and fittings, 6-inch ductile iron supply main piping (and bedding) and any required bends/loops around existing utilities, connection of the new fire hydrant to new water main with ductile iron pipe with exterior of pipe tape wrapped; gate valves with cast iron slip-type valve boxes, traffic lids, concrete collar (w/seal); miscellaneous tees, sleeves, bends, gaskets, bolts, nuts; approved joint restraining devices; greasing and wrapping all exposed fittings, bolts and nuts; pipeline dewatering; concrete thrust restraints; concrete box repair, painting and other miscellaneous devices; snake pit boxes with tracer wire, collars; and all other materials/labor necessary to install new fire hydrant assembly according to Ogden City Standard Drawings W-1A, W-1B, & W-2.
- C. Payment includes painting the fire hydrant barrel safety yellow and the caps/bonnet the color determined from a flow test performed by the water department after paving is completed. Bonnet/caps color is expected to be Jay Blue (Refer to Section 33 12 19 SP Hydrants for more details).
- D. All new valves installed shall not be brought up to proposed surface grade but remain lowered for the future mill and pave not part of this contract.

END OF DOCUMENT

DOCUMENT 00 41 50
CONTRACT TIME

PART 1 GENERAL

1.1 DOCUMENT INCLUDES

- A. Contractor's proposal for Contract Time.

1.2 CONSTRUCTION CONTRACT

- A. The Construction Contract is known as 28th Street Utility Improvements Project.

1.3 DEFINITIONS

- A. Suspended Contract Time: The Contract Time commences to run upon the day given in the Notice to Proceed. Suspended Contract Time means there is a period within the Contract Time where time is not counted. For purposes of this Construction Contract, the time period not counted may not be broken up into separate periods but shall be considered as only a one time period to be used to allow for work suspension due to just cause.

1.4 CONTRACT TIME

- A. Engineer has estimated 100 calendar days are required to substantially complete the work. The total number of days established by the Bidder to substantially complete the work is ____ calendar days.
- B. If Bidder anticipates occurrence of Suspended Contract Time the number of calendar days of Suspended Contract Time anticipated is ____ calendar days providing the Notice to Proceed date is given by the Engineer after .

PART 2 EXECUTION

2.1 EFFECTIVE DATE

- A. Bidder executes this estimate of Contract Time and declares it to be a supplement to the Bid Schedule (Document 00 41 00) and in effect as of _____, 20__.

2.2 BIDDER'S SUBSCRIPTION

- A. Bidder's signature: _____
- B. Please print Bidder's name here: _____
- C. Title: _____

END OF DOCUMENT