

DATE:

TO:

Plan Holders Contractors FROM:

Jenna Richardson 918-596-9637 jennarichardson@cityoftulsa.org

### **EMAIL TRANSMITTAL**

ADDENDUM NO. 1

## PROJECT NO. ES 2025-09 COAL CREEK SMALL DIAMETER CONCRETE PIPE REPLACEMENT

Number of pages: 6

All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

Thank you, Contract Administration



DATE: July 15, 2025

# ADDENDUM NO. 1 TO PROJECT NO. ES 2025-09 COAL CREEK SMALL DIAMETER CONCRETE PIPE REPLACEMENT

This Addendum No. 1 consisting of two (2) items, submitted by RJN Group, is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. All addenda to the contract documents should be denoted on the last page of the Proposal in the space provided.

This Addendum No. 1 consists of the following:

1. The attached documents list the detailed items that have been modified in Addendum No. 1. These documents shall be inclusive and apply to this project.

All other provisions of the Plans and Specifications shall remain in full force and effect.

**CITY OF TULSA** 

Eric Lee Director



#### ADDENDUM NO. 1

TO

#### TMUA PROJECT NO. ES 2025-09 COAL CREEK SMALL DIAMETER CONCRETE PIPE REPLACEMENT

July 15, 2025

This Addendum No. 1 is hereby made a part of the Contract Documents to the same extent as though it were originally included therein and shall supersede anything contained in the Plans and Specifications with which it might conflict. This Addendum shall be attached to the Index Sheet of the Contract Documents and submitted with the bid. This Addendum shall be acknowledged on the signature page of the Bid Proposal by writing in the number and date received. Failure to do so shall result in the bid being deemed non-responsive.

This Addendum No. 1 consists of the following:

#### **PLAN SHEET REVISIONS:**

- 1. Sheet 3: General note 15 has been modified to state, "All pavement removal shall be saw cut at the neat lines as indicated in the specifications and standard details. Saw cuts required for removal and replacement items shall be full depth of the existing pavement."
- 2. Sheet 4: Pay item note 40 and references to it in the estimated construction quantities table have been added to the plan sheet. The pay item note states, "Pavement removal and replacement for water, sanitary, and stormwater main installations this pay item supersedes City of Tulsa standard specification section 329.6 and 402.17, with respect to saw cutting and dowels and includes the following (these items shall not be paid separately):
  - a. Saw cutting
  - b. Dowels
  - c. Disposal of broken payment
  - d. Temporary surface
  - e. Associated excavation
  - f. Preparation of subgrade
  - g. Forms or reinforcing
  - h. Removal or replacement of gravel
  - i. Additional saw cutting or replacement of pavement damaged by the contractor
  - j. Joint sealer, tack coats, or edge sealing

This pay item does not include the following which will be paid separately in accordance with city standard specifications, details, and drawings:

a. Curb and gutter"



7/15/2025

**END OF ADDENDUM** 

#### **GENERAL NOTES**

- 1. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SAFETY PLAN TO THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT PRIOR TO COMMENCEMENT OF WORK. THE SAFETY PLAN SHALL ADDRESS, BUT NOT BE LIMITED TO ISSUES SUCH AS TRAFFIC CONTROL, WORK SITE SAFETY, MANHOLE VENTILATION, WORK EQUIPMENT, FIRST AID, HYGIENE, AND OTHER RELATED TOPICS. THE CONTRACTOR SHALL BE EXPECTED TO PERFORM THE WORK IN A MANNER THAT BEST PROTECTS THE SAFETY OF WORKERS, INSPECTORS, BYSTANDERS, AND OTHERS WHO MAY BE IN THE VICINITY OF THE PROJECT. FAILURE TO PERFORM THE WORK AND MAINTAIN THE SITE IN A SAFE MANNER, IN THE OPINION OF THE ENGINEER OR OWNER, SHALL BE SUFFICIENT CAUSE TO STOP ALL WORK UNTIL SAFETY PROBLEMS ARE CORRECTED.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE CITY OF TULSA AND ODOT ENGINEERING STANDARDS AND SPECIFICATIONS AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS CONTRACT
- 3. THE CONTRACTOR SHALL HAVE ONE (1) EXECUTED COPY OF THE CONTRACT DOCUMENTS AT THE JOB SITE AT ALL TIMES.
- 4. THE CONTRACTOR SHALL, IN COOPERATION WITH THE CITY, DEVELOP AND SUBMIT FOR APPROVAL A TRAFFIC CONTROL PLAN (TCP), TO THE CITY OF TULSA PUBLIC WORKS, FIELD ENGINEERING. THIS TCP SHALL DETAIL SUCH MEASURES AS MAY BE REQUIRED TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE A COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROL SYSTEM DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PLACE TRAFFIC CONTROL FLAGMEN, BARRICADES, SIGNS, SIGNALS, OR OTHER DEVICES AS MAY BE REQUIRED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, PERMITTING, AND EXECUTION OF A STORMWATER POLLUTION PREVENTION PLAN (SWP3). THE CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED OF SWP3 FOR REVIEW AND APPROVAL OF THE PLAN BY FEDERAL, STATE, AND LOCAL AUTHORITIES. THIS INCLUDES, BUT IS NOT LIMITED TO, THE NOTICE OF INTENT AND THE NOTICE OF TERMINATION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ORANGE SAFETY FENCING AROUND ALL EXCAVATION, INCLUDING TRENCHES, PITS, VAULTS, ETC. TO MAINTAIN SECURITY AND SAFETY FOR ANIMALS, CHILDREN OR ANY BYSTANDER. THE COST OF ORANGE SAFETY FENCING SHALL BE INCLUDED IN OTHER PAY ITEMS.
- 7. ALL EXCAVATED MATERIAL REMOVED DURING TRENCHING OR EXCAVATION SHALL BE DISPOSED OF AT A SITE APPROVED BY THE OWNER. PRIOR TO TRENCHING AND EXCAVATION, THE CONTRACTOR SHALL SUBMIT THE PROPOSED DISPOSAL SITE TO THE ENGINEER FOR HIS REVIEW. STOCKPILING EXCAVATED MATERIALS IN STREET OR ALLEY RIGHT-OF-WAY MAY BE ALLOWED UPON APPROVAL BY THE ENGINEER. MAINTENANCE OF STOCKPILE SITE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST MAINTAIN STOCKPILE SITES IN A SAFE, POLLUTION FREE CONDITION THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL OR STORE ANY EQUIPMENT OVERNIGHT IN THE TULSA REGULATORY FLOODPLAIN.
- 8. BACKFILL UNDER ALL PAVED SURFACES SHALL BE TYPE "A" AGGREGATE BASE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED BY A VIBRATORY HAND TAMPER TO 95% OF THE STANDARD PROCTOR DENSITY, AS MEASURED BY THE NUCLEAR DENSITY METHOD.
- THE CONTRACTOR SHALL PROVIDE A DETAILED ACCESS PLAN FOR THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS, CONSTRUCTION ACTIVITIES, AND PERMITS THAT MAY BE NEEDED FOR THE IMPLEMENTATION OF THIS PLAN.
- 10. CONTRACTOR MUST NOTIFY THE HOMEOWNER A MINIMUM OF 48 HOURS (SPECIFICATION 400) PRIOR TO BEGINNING ANY REHAB WORK OR CONSTRUCTION ON HOMEOWNER'S PROPERTY.
- 11. IN ALL AREAS WHERE EXCAVATION WILL OCCUR, CONTRACTOR SHALL VIDEO ALL CONCRETE PAVEMENT, BUILDINGS, FOUNDATIONS, LANDSCAPING, LAWNS AND TREES PRIOR TO CONSTRUCTION AND SUBMIT TO THE ENGINEER FOR PROJECT RECORDS.
- 12. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ANY EXISTING STORAGE SHEDS, LOCATED WITHIN THE CONSTRUCTION AREA, THAT ARE DAMAGED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE CITY OF TULSA OR THE HOMEOWNER.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF ALL EXISTING SANITARY SEWER SERVICE LATERALS IN THE PROJECT AREA. IF ENCOUNTERED OR DAMAGED DURING CONSTRUCTION, EXISTING SERVICE LATERALS SHALL BE REMOVED AND REPLACED USING PIPE OF THE SAME SIZE AND MATERIAL AS THE EXISTING SEWER AT THE CONTRACTORS EXPENSE.
- ALL DAMAGED PAVEMENT OUTSIDE OF THE TRENCH PAY LINE SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE.
- 15. ALL PAVEMENT REMOVAL SHALL BE SAW CUT AT THE NEAT LINES AS INDICATED IN THE SPECIFICATIONS AND STANDARD DETAILS. SAW CUTS REQUIRED FOR REMOVAL AND REPLACEMENT ITEMS SHALL BE FULL DEPTH OF THE EXISTING PAVEMENT.
- 16. ALL CONCRETE PAVEMENTS, FLEXIBLE PAVEMENTS, CURB AND GUTTER, AND UNPAVED SURFACES SHALL BE FINISHED TO MATCH EXISTING SURROUNDING SURFACES.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING, NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
- 18. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS DAMAGED DURING THE COURSE OF CONSTRUCTION, PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENTS SHALL BE MADE.
- 19. ALL SANITARY SEWER AND STORM SEWER MANHOLE CASTING AND LIDS THAT ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW ONES, AND THE OLD CASTINGS AND LIDS SHALL BE DELIVERED TO THE SEWER BASE AT 9319 E. 42nd STREET N. AND PLACED IN THE METAL RECYCLE BIN IN THE STOCKROOM AREA 918-669-6130, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
- 20. NO FILL, SPOIL, BEDDING MATERIAL OR EQUIPMENT MAY BE STORED OVERNIGHT WITHIN THE FLOOD PLAIN LIMITS.
- 21. ALL SANITARY SEWER MANHOLES LOCATED IN THE FLOODPLAIN SHALL BE BUILT IN ACCORDANCE WITH THE FLOODPLAIN MANHOLE SPECIFICATION WITH PADDLE LOCK LID.

#### MANHOLE REHABILITATION NOTES

- ALL MANHOLES, PIPE SIZES AND LENGTH, DEFECTS, SURFACE TYPES AND THEIR LOCATIONS SHOWN IN THE PLANS ARE ACCORDING TO THE BEST INFORMATION AVAILABLE TO THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL INFORMATION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING THE WORK.
- 2. REPLACEMENT MANHOLES SHALL HAVE FLOW LINE AND RIM ELEVATIONS SET TO MATCH THOSE OF EXISTING MANHOLES UNLESS OTHERWISE NOTED BY THE ENGINEER. FRAMES AND COVERS SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.

- 3. CONTRACTOR SHALL ENSURE THAT ALL MANHOLE FRAME AND COVER CASTINGS HAVE MACHINED SEATING SURFACES WITH A TIGHT FIT AND COMPLY WITH THE OTHER PROVISIONS OF THE MATERIALS SPECIFICATION
- ACTIVE LEAKING JOINTS OR OTHER DEFECTS OBSERVED BY THE CONTRACTOR, BUT NOT SCHEDULED FOR REHABILITATION. SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY UPON DETECTION.
- IN AREAS OF MANHOLE REPAIRS, CONTRACTOR SHALL PLACE SPOILS ON PLASTIC SHEETS, PLYWOOD OR OTHER SUITABLE GROUND PROTECTION.
- . THE MANHOLE DEPTHS SHOWN ON THE PLANS ARE FROM SURVEY. HOWEVER, ACCURATE FIELD MEASUREMENTS SHALL BE UTILIZED FOR ANY MANHOLE REPLACEMENT OR REHABILITATION.
- ALL NEW, WALL REHABILITATION, AND REPLACEMENT MANHOLES SHALL NOT HAVE STEPS INSTALLED. MANHOLE
  WALL REHABILITATION TYPE Gg AND Gs REPAIRS, SHALL HAVE STEPS REMOVED AND ARE CONSIDERED
  INCIDENTAL TO WALL REHABILITATION PAY ITEMS.
- CONTRACTOR SHALL BE REQUIRED TO VACUUM TEST ALL NEW MANHOLE INSTALLATIONS AND EXISTING
  MANHOLES WHERE COMPLETE REHABILITATION IS PERFORMED, IN ACCORDANCE WITH THE CITY OF TULSA
  STANDARDS AND SPECIFICATIONS.
- ALL NEW MANHOLE FRAMES AND COVERS INSTALLED ON THE PROJECT SHALL HAVE A MINIMUM CLEAR OPENING OF 30-INCHES REGARDLESS OF MANHOLE SIZE. NEW MANHOLE FRAMES AND COVERS INSTALLED ON EXISTING MANHOLES MAY HAVE CLEAR OPENING LESS THAN 30-INCHES WITH ENGINEER APPROVAL.

#### PIPELINE REHABILITATION NOTES

- . POST REHABILITATION TELEVISION INSPECTION OF LINES INSTALLED BY TRENCHLESS METHODS SHALL BE PERFORMED BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE COST OF OTHER PAY ITEMS.
- POINT REPAIR LOCATIONS ARE APPROXIMATE AND SHALL BE DETERMINED BY THE CONTRACTOR'S PRE-TELEVISION INSPECTION.
- QUANTITIES SHOWN IN THE SUMMARY TABLE ARE AN ESTIMATE OF QUANTITIES FOR THE WORK SHOWN AND DO NOT REFLECT FINAL WORK ITEM QUANTITIES NECESSARY TO REHABILITATE PIPELINE SEGMENTS.
- 4. POINT REPAIR(S) SHALL BE PERFORMED USING LIKE PIPE ACCORDING TO CITY OF TULSA CONSTRUCTION SPECIFICATION SECTION 412.2.1. (I.E. EXISTING VCP WILL BE REPAIRED USING VCP, EXISTING PVC WILL BE REPAIRED USING PVC, AND EXISTING DIP WILL BE REPAIRED USING DIP). IF AN OBSTRUCTION IS ENCOUNTERED DURING CLEANING AND TELEVISION INSPECTION PRIOR TO OR DURING THE INSERTION OF THE NEW LINE THROUGH THE HOST PIPE, THE CONTRACTOR HAS THE OPTION OF USING VCP OR PVC TO REPAIR THE HOST PIPE AT THE LOCATION OF THE OBSTRUCTION. IN ALL CASES, CONCRETE PIPE SHALL BE REPLACED WITH PVC.
- PIPELINE REHABILITATION PLANS ARE FOR REFERENCE ONLY AND DO NOT DEPICT ALL OF THE EXISTING UTILITIES.
- PIPE EMBEDMENT WILL BE AS SHOWN IN CITY OF TULSA STANDARD DETAILS EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS.
- CONTRACTOR SHALL SUBMIT A PROFESSIONALLY ENGINEERED TRENCH EXCAVATION SAFETY PLAN FOR ALL EXCAVATIONS IN EXCESS OF 20 FEET OF DEPTH. (NO SEPARATE PAYMENT)
- 8. WHERE THERE IS DISCREPANCY BETWEEN THE PIPELINE LENGTHS TAKEN FROM ACTUAL FIELD MEASUREMENTS AND THOSE SHOWN ON THE PLANS, THE FIELD MEASUREMENTS SHALL GOVERN.
- CONTRACTOR SHALL SUPPLY WITH HIS MONTHLY PAY REQUEST, A LIST SHOWING ALL SEWER LINES REPAIRED, THE ADDRESS OF ANY SERVICE LINES THAT ARE RECONNECTED, AND THE FOOTAGE OF THE RECONNECTION FROM THE NEAREST DOWNSTREAM MANHOLE.
- 10. THE TERM "PIPE BURSTING" THAT IS USED THROUGHOUT THE CONSTRUCTION DRAWINGS IS INTENDED TO INCLUDE OTHER SIMILAR TRENCHLESS PIPE REPLACEMENT METHODS, SUCH AS PIPE REAMING AND PIPE CRUSHING. IT DOES NOT INCLUDE SLIPLINING OR INSTALLATION OF CURED-IN-PLACE PIPE.
- 11. CONTRACTOR MUST EXERCISE DILIGENCE WHEN WORKING AROUND TREES. HOWEVER, IF DAMAGE OCCURS TO TREES LOCATED WITHIN AN EASEMENT CONTRACTOR SHALL NOT BE RESPONSIBLE.

#### TRAFFIC CONTROL

- ALL TRAFFIC CONTROL DEVICES, CONSTRUCTION SIGNAGE, BARRICADING, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). CONTRACTOR SHALL PREPARE AND SUBMIT FOR APPROVAL A TRAFFIC CONTROL PLAN (TCP).
- THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTIFICATION FOR ANY AND ALL STREET / LANE CLOSURES, MODIFICATION, OR CHANGES TO THE TRAFFIC CONTROL MEASURES TO:

POLICE 918-596-9222 FIRE 918-596-9977 COT TRAFFIC 918-596-9744 EMSA 918-596-3043 MTTA 918-585-1199

- 3. REFLECTORIZED SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
- 4. IF WARNING LIGHTS TO BE USED ON TRAFFIC CONTROL DEVICES, TYPE "A" LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE "C" WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WA, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPERATIONS 48 HOURS PRIOR TO STARTING WORK OR PRIOR TO REMOVING OR RELOCATING ANY TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED SO AS TO AVOID ANY DAMAGE TO THE SIGN OR POST. ALL SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CONTRACTOR.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL CONSTRUCTION SIGNAGE AND BARRICADING, INCLUDING, BUT NOT LIMITED TO, WASHING, REPLACEMENT, REPOSITIONING OF DEVICES. WHEN AND WHERE IT IS DEEMED NECESSARY BY THE CITY OR THE ENGINEER, THE CONTRACTOR SHALL FURNISH AND INSTALL ANY ADDITIONAL TRAFFIC CONTROL DEVICES.

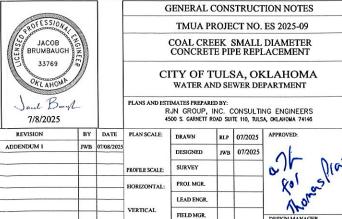
- 7. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AREA AT ALL TIMES. LOCAL TRAFFIC TO ALL PUBLIC AND PRIVATE STREETS SHALL BE ACCESSIBLE FROM ANY DETOURS DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.
- ROADSIDE HAZARDS SHALL BE COMPLETELY BARRICADED AROUND THEIR PERIMETER FOR SAFETY OF PEDESTRIANS AND VEHICLES. NO BARRICADES SHALL BE PLACED UNTIL ALL ADVANCED SIGNING IS IN PLACE.
- 9. ALL CHANNELING DEVICES, TYPE III BARRICADES, ETC., SHALL BE WEIGHTED DOWN WITH A NON-HAZARDOUS MATERIAL WHEN NECESSARY OR WHEN DIRECTED BY THE CITY OR THE ENGINEER.
- 10. ALL ADVANCE WARNING SIGNS SHALL BE PROVIDED WITH TYPE "A" WARNING LIGHTS.
- 11. ALL TYPE III BARRICADES SHALL BE FURNISHED WITH A MINIMUM OF TWO (2) TYPE "A" WARNING LIGHTS.
- 12. ALL CHANNELING DEVICES SHALL BE PROVIDED WITH TYPE "C" WARNING LIGHTS.

#### UTILITIES

- 1. THE LOCATIONS OF THE UTILITY LINES, AS SHOWN ON THESE DRAWINGS, ARE BASED ON ATLAS INFORMATION, UTILITY COMPANY COMMENTS, AND OBSERVED FEATURES. NEITHER THE CITY NOR THE ENGINEER ASSUMES OR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. SERVICE LINES FROM THE MAIN UTILITY LINES TO ANY BUILDING OR FACILITY MAY NOT BE SHOWN. CONTRACTOR SHALL OBTAIN THE LOCATION OF THESE FROM THE UTILITY COMPANY AND SHALL BE HELD RESPONSIBLE FOR ANY DAMAGES TO THESE LINES OR ANY OTHER LINES OR UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL GIVE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC., A MINIMUM OF TWO (2) WORKING DAYS AND A MAXIMUM OF TEN (10) WORKING DAYS PRIOR TO BEGINNING WORK IN ANY AREA. PHONE: 1-800-522-6543.
- PRIOR TO EXCAVATING, THE CONTRACTOR IS RESPONSIBLE FOR BRACING AND SUPPORTING ANY POWER POLE
  OR GUY WIRE WITHIN 5 FEET OF EXCAVATION TO THE SATISFACTION OF THE OWNER AND THE UTILITY COMPANY.
  NO ADDITIONAL COST TO THE OWNER, IF REQUIRED, CONTRACTOR SHALL CONTACT CITY OF TULSA UTILITY
  COORDINATION FOR ASSISTANCE.

#### **PLAN & PROFILE SHEET NOTES**

- CONTRACTOR MUST FIELD VERIFY ALL DEPTHS, DISTANCE ANGLES, AND GRADES OF EXISTING SANITARY SEWER PRIOR TO START OF CONSTRUCTION. (NO SEPARATE PAY ITEM).
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, SUPPORTING, AND PROTECTING THE INTEGRITY OF UNDERGROUND UTILITIES AND POWER POLES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL EXCAVATE ALL BURIED UTILITY CROSSINGS AHEAD OF PIPE LAYING OR THE INSTALLATION OF SHEETING-OR SHORING TO AVOID UTILITY CONFLICTS. ALL COSTS ASSOCIATED WITH THIS WORK IS CONSIDERED INCIDENTAL. IF DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE UTILITY.
- 4. IF DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING, STRUCTURES, ETC. TO ITS ORIGINAL OR BETTER CONDITION. NO SEPARATE PAY ITEM IF LOCATED OUTSIDE OF STANDARD CONSTRUCTION PAY LIMITS.
- TRENCH EXCAVATION PROTECTION SHALL BE ACCOMPLISHED AS REQUIRED BY THE PROVISIONS OF PART 1926, SUBPART P-EXCAVATION, TRENCHING, AND SHORING OF THE OCCUPATIONAL SAFETY AND HEALTH'S STANDARDS AND INTERPRETATIONS.
- 6. CONTRACTOR SHALL VERIFY AND REINSTATE ALL ACTIVE SERVICE CONNECTIONS
- 7. CONTRACTOR SHALL REPLACE ALL SERVICES TO WITHIN 2' OF THE EASEMENT LINE OR RIGHT-OF-WAY LINE.
- DISTANCE FROM DOWNSTREAM MANHOLE TO SERVICE CONNECTION IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY PRIOR TO CONSTRUCTION.
- 9. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE RESIDENCES AT ALL TIMES.
- 10. WHEN REHABILITATING OR REPLACING MANHOLES, CONTRACTOR SHALL MATCH GRADE OF EXISTING OR FINISHED CONDITIONS.  $\dot{}$
- 11. FOR ABANDONMENT, REMOVE TOP 3 VF OF EXISTING MANHOLE/LAMPHOLE AND FILL EXISTING SANITARY SEWER AND MANHOLE/LAMPHOLE WITH CELLULAR CONCRETE OR FLOWABLE FILL. ABANDONMENT SHALL BE PERFORMED AFTER CONSTRUCTION OF ALL NEW SEWER MAINS AS PER CITY OF TULSA SPECIFICATION 333.
- 12. CONTRACTOR SHALL TELEVISE ANY SANITARY SEWER LINES CALLED OUT FOR ABANDONMENT TO DETERMINE LOCATION OF ACTIVE SERVICES, ANY ACTIVE SERVICES ON AN ABANDONED LINE SHALL BE RECONNECTED TO AN EXISTING OR PROPOSED SEWER MAIN IN THE IMMEDIATE VICINITY, ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE IS NO SEWER MAIN IN THE VICINITY TO CONNECT THE SERVICE.



DRAWING:

DATE: July 2025 SHEET 3 OF 59 SHEETS

FILE:

ATLAS PAGE NO

1   10   10   10   10   10   10   10	AY ITEM	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE NOS.	UNIT	TOTAL
1				TATTEM NOTE NOO.	O.u.	TOTAL
2   200   SCONATO-LAND ALONG LUCK-OPER PROPERTY   200	1	301, SP-10		T	SY	3,940
1	-			2		1,490
3   31   31   32   33   34   34   35   34   34   34   34						16
1   13   15   15   15   15   15   15						22
393,692   INSTALL ASICIDA GENER PER STEEL CORROL ACTU DIDAS 500 3 PC						1,668
1	7					81
3   31   MARCEL ERFIT CORT A STOCK OF STOCK AND STOCK OF STOCK	8		CONSTRUCT STD. 4-FOOT DIA MANHOLE (0-6-FOOT DEPTH)			3
11 314 MARGOELEPHTOURS FOOT FOR STO LAND TO ALL CORP MARKET  31 30 CORP TO SALLOW MANUEL SOFT ON STO THAT STO PETAL 60  31 11 11 11 11 11 11 11 11 11 11 11 11 1					VF	9.7
314						2
13 31 PRODUCTIFY TO THE TOTAL CONTROL STATE OF						8.8
14   337   RECOUNT FREE LYCHOWY				1,6,15,28,29		2
30   30   30   30   30   30   30   30		317	RELOCATE FIRE HYDRANT			1
19 332 PAROPERA DORDO STEEL CORRING 1 333 PA PAROPERA DORDO STEEL CORRING NAMES STEEL CORRING 2 122 CA PAROPERA STEEL CORRING SERVER SERVER STEEL STEEL CORRING STEEL S						18
19   333. SP-1   AMMOOR EDITION SUMMAY EXPERIENCE   71.22   UF   1.25   UF   UF   1.25   UF   UF   UF   UF   UF   UF   UF   U						11
333.8P-1   AMMOON RECIFIED SWITZEN SEVERIFYE   1.122   U						81
333. 8P-1 OUT MORT PURGENT SERVER INSE  13 334 CONSTRUCTION AS DUILT CORTING.  14 40 CONSTRUCTION AS DUILT CORTING.  15 34 CONSTRUCTION AS DUILT CORTING.  16 40 CONSTRUCTION AS DUILT CORTING.  17 40 CONSTRUCTION AS DUILT CORTING.  18 40 CONSTRUCTION AS DUILT CORTING.  18 40 CONSTRUCTION AS DUILT CORTING.  19 40 CONSTRUCTION AS DUILT CORTING.  10 40 CONSTRUCTION AS DUILT						1,453
33	20					2
15   16   16   16   16   16   16   16				21,12		1
400   PROTOGRAPHIC DOCUMENTATION				^		1
192   100				1 學	EA	1
402   OUNDER SOUTH REPLACEMENT						1
22				4 27 40		1,300
402   BICKORMENT REPLACEMENT						1,340
402   ODMORTE EDREWN REPLACEMENT   4,77.40   SY   1   1   1   1   1   1   1   1   1						20
402,89-3   ODKORETE PANAMENT REPLACEMENT   4,374.00   SY   1	29	402	CONCRETE DRIVEWAY REPLACEMENT			50
10   1.00   1.				4,27,40	SY	1,670
1.45,87.9   1.5   1.45,87.9   1.5   1.45,87.9   1.5						1,040
40, 5P-2						50
33   406, 5P7   BANCH PPE BURSTNO REPLACEMENT, 10PC DPS DR-17   1,557,69,11,622   F   4   5   5   6,00   5   5   6   5   5   6   5   5   6   5   5						564 669
405, 400   SERVICE RECONNECTIONS						4,471
37						304
400, SP-0,13,   7-NICHON SUPLANDO RISTALATION DR-21 PS HOPPLE AND TAX CURED-N-PLACE PPE (CPP)   1,845,78,911,16.39   F   6   6   12   7-NICHON SUPLANDO S	37					3,330
12.43.67.69.011   12.43.67.69.011   12.43.67.63.111   18.   14.   14.   12.   13.601.0001   12.43.67.63.111   18.   14.   14.   12.   13.601.0001   12.43.67.63.111   18.   14.						6,211
1412   15-SPICHADDRIONAL FOOTAGE POOR TERMS BITS & PEY ASTAL DUDGE   12,456,75,85,11,16   1   1   1   1   1   1   1   1   1						1
415 PRE-CONSTRUCTION TELESSION ROPECTION  416 OUNFLETE MINNIOLE REPLACEMENT, 510.4 FOOT DIA MANIOLE  417 416 OUNFLETE MINNIOLE REPLACEMENT, 510.4 FOOT DIA MANIOLE  418 416 OUNFLETE MINNIOLE REPLACEMENT, 510.4 FOOT DIA MANIOLE  419 416 OUNFLETE BINDLO MINNIOLE REPLACEMENT, 510.4 FOOT DIA ROPP WANNIOLE (0.4 FOOT DEPTH)  410 416 OUNFLETE SINGLO WANNIOLE REPLACEMENT, 510.4 FOOT DIA ROPP WANNIOLE (0.4 FOOT DEPTH)  411 416 OUNFLETE SINGLO WANNIOLE REPLACEMENT, 510.0 FOOT DIA WANNIOLE (0.4 FOOT DEPTH)  411 416 OUNFLETE SINGLO WANNIOLE REPLACEMENT, 510.0 FOOT DIA WANN						1
41 419 COMPLETE MANIOLE REPLACEMENT, STD. 4-FOOT DA. MANIOLE (9-FOOT DEPTH) 1.6,10.15,16.28.29   K   414 415 EXTRA DEPTH OVER FOOT FOOT DA TO FOOT DA. NORP MANIOLE (9-FOOT DEPTH) 1.6,10.15,16.28.29   K   415 EXTRA DEPTH OVER FOOT FOOT DA TO FOOT DA. ORD PAMRIOLE (9-FOOT DEPTH) 1.6,10.15,16.28.29   K   416 EXTRA DEPTH OVER FOOT FOOT STD. 4-FOOT DA. ORD PAMRIOLE (9-FOOT DEPTH) 1.6,10.15,16.28.29   K   417 416   COMPLETE SHALLOM MANIOLE REPLACEMENT, STD. 4-FOOT DA. ORD PAMRIOLE (9-FOOT DEPTH) 1.6,10.15,16.28.29   K   418 416   COMPLETE SHALLOM MANIOLE REPLACEMENT, STD. 5-FOOT DA MANIOLE DEPTH (1.6,10.15,16.28.29   K   419 416   COMPLETE SHALLOM MANIOLE REPLACEMENT, STD. 5-FOOT DA MANIOLE DEPTH (1.6,10.15,16.28.29   K   419 416   COMPLETE SHALLOM MANIOLE REPLACEMENT, STD. 5-FOOT DA MANIOLE DEPTH (1.6,10.15,16.28.29   K   419 416   COMPLETE SHALLOM MANIOLE REPLACEMENT, STD. 5-FOOT DA MANIOLE BENEAUTH ATO OCCUR, FROME HOT PAME AND						25 12,410
44						43
416	44	416	EXTRA DEPTH OVER 6-FOOT FOR STD. 4-FOOT DIA, MANIHOLE			67.7
416	45				EA	7
48						25.4
49						7
1418   MANNOLE REHABILITATION COVER, FRAME, FRAME SEAL, REPLACEMENT (TYPE C REPAR)   15   EA						2
1418						10.9
19						4
423   OBSTRUCTON REMOVAL   16	52	419		15		3
56						1,621.0
				18		15
		ODOT 613 (A)		24.05		4
99						48 80
99						8
ODDT 613 (P)   42-NICH R.C. PPE CLASS II, ROUND   24-25   LF	59					8
24.25   F   24.2						100
SODI						8
SP4   ONDT 880, SP-9   CONSTRUCTION TRAFFIC CONTROL   19,20   LS						10
ADDITIVE ALTERNATE NO. 1   STATE	64	ODOT 880, SP-9	CONSTRUCTION TRAFFIC CONTROL			i
15	65	SP-4			ALLOW	100,000
STATE	66	22.				
10						- 1
99   405, 408   SERVICE LINE REPLACEMENT   6,12,13,14,26   LF   1,10,15,408   409, SP-6,7,8   7-INCH DIA SLIPLINING INSTALLATION, DR-21 PS HDPE/8-INCH DIA CURED-IN-PLACE PPE (CIPP)   1,5,67,8,911,16,39   LF   1,10,15,10,10,10,10   1,10,10,10,10,10   1,10,10,10,10,10   1,10,10,10,10,10   1,10,10,10,10,10   1,10,10,10,10,10,10   1,10,10,10,10,10   1,10,10,10,10,10,10   1,10,10,10,10,10,10,10   1,10,10,10,10,10,10   1,10,10,10,10,10,10,10,10,10,10,10,10,10	4.	000	CONTRACTOR CONTROL	6.12.13.14.26		39
100   100		405, 408	SERVICE LINE REPLACEMENT			390
12   3-INCH POINT REPAIR, CONCRETE PPE (0-10 LF)   1,2,4,5,6,7,8,9,11,16   EA   1,2,4,5,6,7,8,9,11,16,9,9,11,16   EA   1,2,4,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16   EA   1,2,4,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,11,16,9,1,14,5,6,7,8,9,1,16,9,1,14,5,6,7,8,9,1,16,9,1,14,5,6,7,8,9,1,16,				1,5,6,7,8,9,11,16,39	LF	1,722
3						166
146						2,112
15						3
16			EXTRA DEPTH OVER 6-FOOT FOR STD. 4-FOOT DIA. MANHOLE			0.2
18				1,6,10,15,16,28,29	EA	1
19						6
18						3
81   ODOT 880, SP-9   CONSTRUCTION TRAFFIC CONTROL   19,20   LS						5
## ADDITIVE ALTERNATE NO. 2    334   CONSTRUCTION AS-BUILTS   LS     83   335   CONTRACTOR'S QUALITY CONTROL   LS     84   405, 408   SERVICE RECONNECTIONS   6,12,13,14,26   EA     85   405, 408   SERVICE RECONNECTIONS   6,12,13,14,26   EA     86   409, \$P-6,7,8   7-INCH DIA SUPLINING INSTALLATION, DR-21 IP'S HOPE/8-INCH DIA CURED-IN-PLACE PIPE (CIPP)   1,5,8,7,8,9,11,16,39   LF     87   415   PRE-CONSTRUCTION TELEVISION INSPECTION   3,11,16,22   LF     88   418   MANHOLE REHABILITATION COVER, FRAME AND FRAME SEAL REPLACEMENT (TYPE A REPAIR)   15   EA     89   418   MANHOLE REHABILITATION COVER, FRAME SEAL, AND CHIMNEY REPLACEMENT (TYPE C REPAIR)   15   EA     90   421   MANHOLE REHABILITATION WALK REHABILITATION (TYPE G'APRIR)   15   SF     15   SF			CONSTRUCTION TRAFFIC CONTROL			1
83   335   CONTRACTOR'S QUALITY CONTROL   LS						
84   405, 408   SERVICE RECONNECTIONS   6,12,13,14,26   EA						1
85   405, 408   SERVICE LINE REPLACEMENT   6,12,13,14,26   LF   6   6   6   6   6   7   7   7   7   7				0.40.40.44.00		1 20
86						36 360
87         415         PRE-CONSTRUCTION TELEVISION INSPECTION         3,11,16.22         LF         1           88         418         MANHOLE REHABILITATION COVER, FRAME AND FRAME SEAL REPLACEMENT (TYPE A REPAIR)         15         EA           89         418         MANHOLE REHABILITATION COVER, FRAME, FRAME SEAL, AND CHIMNEY REPLACEMENT (TYPE C REPAIR)         15         EA           90         421         MANHOLE REHABILITATION WALL REHABILITATION (TYPE Gg REPAIR)         15         SF						1,562
88         418         MANHOLE REHABILITATION COVER, FRAME AND FRAME SEAL REPLACEMENT (TYPE A REPAIR)         15         EA           89         418         MANHOLE REHABILITATION COVER, FRAME, FRAME SEAL, AND CHIMINEY REPLACEMENT (TYPE C REPAIR)         15         EA           90         421         MANHOLE REHABILITATION WALL REHABILITATION (TYPE G) REPAIR)         15         SF		415	PRE-CONSTRUCTION TELEVISION INSPECTION			1,562
90 421 MANHOLE REHABILITATION WALL REHABILITATION (TYPE Gg REPAIR) 15 SF		418	MANHOLE REHABILITATION COVER, FRAME AND FRAME SEAL REPLACEMENT (TYPE A REPAIR)	15	EA	1
						1
91 421 MANHOLE REMABILITATION BENCH AND INVERTIRE REPARTITATION (TYPE GRI REPAIR) 15 EA						77.9
92 423 OBSTRUCTION REMOVAL 18 EA						5

#### **PAY ITEM NOTES**

- 1. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AN EROSION CONTROL PLAN BASED ON CONSTRUCTION SEQUENCING. COST TO INCLUDE SILT REMOVAL AND ANY RE-GRADING NECESSARY DUE TO EROSION.
- 2. PRICE TO INCLUDE ANY AND ALL ROCK EXCAVATION. NO BLASTING WILL BE ALLOWED. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK EXCAVATION.
- 3. CONSTRUCTION TELEVISION INSPECTION OF SANITARY SEWER QUANTITY CALCULATED BASED ON EXISTING MANHOLE LOCATIONS. CONTRACTOR SHALL USE VIDEO TO CONFIRM LOCATIONS AND DETERMINE POSITIONS OF SERVICE CONNECTIONS, ANY CLEANING REQUIRED, INCLUDING HEAVY CLEANING, SHALL BE INCLUDED IN UNIT PRICE BID FOR VIDEOTAPE INSPECTION, NO ADDITIONAL PAYMENT SHALL BE MADE

- FOR THE WORK BID UNDER "OPEN CUT", SURFACE RESTORATION ITEMS SHALL BE PAID FOR IN ACCORDANCE WITH SPECIFICATION SECTION 402.17 ONLY WHEN THE OPEN CUT METHOD OF REPLACEMENT IS USED. PAVEMENT REMOVAL AND REPLACEMENT SHALL BE PAID FOR IN SQUARE YARDS. THE PAY QUANTITY SHALL BE COMPUTED AS THE LENGTH ALONG THE CENTERLINE OF PIPE BEING REPLACED BY THE STANDARD PAY WIDTH (SEE CITY OF TULSA STANDARD DETAIL # 315 FOR PAY WIDTH). ALL RESTRIPING OF ARTERIAL ROADWAYS SHALL BE CONSIDERED INCIDENTAL.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE BYPASS PUMPING IF NECESSARY. THE PUMP AND BYPASS LINES SHALL BE OF ADEQUATE CAPACITY AND SIZE TO HANDLE THE ANTICIPATED WET WEATHER FLOW. THE COST OF THE BYPASS INCLUDING THE PUMPS, LINES, LABOR AND OTHER MISCELLANEOUS ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE.
- ALL TRENCHES EXCAVATED ACROSS ANY ROADWAY, SIDEWALKS, DRIVEWAYS, PARKING LOTS, ALLEYWAYS OR 31. ASPHALT PAVEMENT INSTALLED IN NON-ARTERIAL STREETS SHALL BE PG 64-22 WHILE ARTERIAL STREETS OTHER PAVED AREAS, SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH THE CITY OF TULSA STANDARD DETAIL # 713. BACKFILL IN STREET RIGHT-OF-WAY AND IN FRONT YARDS SHALL BE COMPACTED TO 95% PROCTOR DENSITY. PRICE OF AGGREGATE BASE IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE.
- 7. RESTORATION WILL NOT BE PAID FOR TRENCHLESS CONSTRUCTION METHODS, RESTORATION WILL BE PAID FOR OPEN CUT CONSTRUCTION METHODS.
- 8. IF A LINE CANNOT BE REPLACED BY TRENCHLESS METHODS, OPEN CUT MAY BE USED UPON ENGINEER'S APPROVAL. WORK AND RESTORATION SHALL THEN BE PAID USING THE UNIT PRICE BID FOR OPEN CUT OF THE CORRESPONDING PIPE SIZE AND THE UNIT PRICE BID FOR THE APPROPRIATE RESTORATION ITEMS
- 9. CONNECTIONS TO ALL EXISTING MANHOLES SHALL BE CORED AND NOT BROKEN OR HAMMERED AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE REPLACEMENT
- 10. ALL EXTERNAL DROPS CONNECTED TO A MANHOLE WHICH IS CALLED OUT FOR REPLACEMENT SHALL BE REPLACED AND INCLUDED IN THE UNIT PRICE BID FOR "COMPLETE DROP MANHOLE REPLACEMENT". ALL DROP CONNECTIONS CALLED OUT ON THE PLANS FOR INSTALLATION TO AN EXISTING MANHOLE THAT IS NOT BEING REPLACED SHALL BE PAID FOR UNDER THE UNIT PRICE BID FOR "REPLACE MANHOLE OUTSIDE DROP CONNECTION". EXTERNAL DROPS SHALL BE CONSTRUCTED OF LIKE MATERIAL TO THE PIPE INCOMING
- 11. POST REHABILITATION TELEVISION INSPECTION OF ALL LINES INSTALLED SHALL BE PERFORMED BY THE CONTRACTOR. THE COST OF PRE CONSTRUCTION TELEVISION INSPECTION WILL NOT BE PAID FOR
- 12. NUMBER OF SERVICE CONNECTIONS ARE APPROXIMATE, CONTRACTOR TO VERIFY WITH THE USE OF PRE-TELEVISION INSPECTION PER SPECIFICATION 415.
- 13. SERVICE LATERALS LOCATED UNDER PAVEMENT SHALL BE REPLACED TO WITHIN 2' OF THE EASEMENT/RIGHT-OF-WAY LINE. ANY ADDITIONAL PIPE OR FITTINGS REQUIRED TO MAKE A GOOD CONNECTION TO THE MAIN LINE OUTSIDE OF PAVEMENT SHALL BE INCLUDED IN THE COST OF SERVICE
- 14. PAYMENT FOR SERVICE LATERALS SHALL INCLUDE ALL INCIDENTAL COSTS ASSOCIATED WITH THE INSTALLATION, INCLUDING, BUT NOT LIMITED TO RESTORATION, PAVEMENT REMOVAL AND REPLACEMENT, EXCAVATION, BEDDING, BACKFILL, PIPE AND FITTINGS.
- 15. THE MANHOLE RING, COVER, GROUT, WATERTIGHT SEAL, 80 MILS OF RAVEN 405 EPOXY OR APPROVED EQUAL AND OTHER MATERIALS INCIDENTAL TO THE CONSTRUCTION OF MANHOLES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH ASSOCIATED MANHOLE PAY ITEM; NO ADDITIONAL PAYMENT SHALL BE MADE. 4' I.D. MANHOLES AND 5' I.D. SHALLOW MANHOLES SHALL NOT BE EPOXY COATED.
- 16. IF ANY BRICK SANITARY MANHOLES/STRUCTURES ASSOCIATED WITH THE IDENTIFIED SEWER LINES ARE FOUND, THE CITY SHALL BE NOTIFIED BEFORE WORK COMMENCES FOR AN EVALUATION OF REHABILITATION. REHABILITATION OF ANY BRICK SANITARY MANHOLES/STRUCTURES SHALL BE BY COMPLETED MANHOLE/STRUCTURE REPLACEMENT OR BY METHODS DESCRIBED IN SPECIFICATION 418.
- 17. GRASSED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY SODDING. HYDROMULCH SEEDING WILL BE ALLOWED IN UNDEVELOPED LOTS. MAXIMUM PAY LIMIT FOR SODDING AND SEEDING SHALL BE STANDARD 10-FEET ON EITHER SIDE OF THE CENTERLINE OF PIPE, MAXIMUM PAY WIDTH OF 20-FEET.
- 18. IF REQUIRED, PAYMENT FOR OBSTRUCTION REMOVAL SHALL BE UTILIZED TO REMOVE CONCRETE ENCASED OR DUCTILE IRON PIPE SEGMENTS DURING TRENCHLESS REPLACEMENT AND SHALL BE APPROVED BY ENGINEER. THIS PAY ITEM SHALL NOT BE PAID WHEN THE INSERTION / REMOVAL PIT IS LOCATED AT THE
- 19. THE CONTRACTOR SHALL DEVELOP A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE GENERAL NOTES TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 20. THE UNIT PRICE BID FOR CONSTRUCTION TRAFFIC CONTROL SHALL INCLUDE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR
- 21. ABANDONMENT SHALL BE PERFORMED AFTER CONSTRUCTION AND ACCEPTANCE OF ALL NEW SANITARY SEWER MAINS
- 22. CONTRACTOR SHALL CCTV (CLOSED CIRCUIT TELEVISION INSPECTION) ALL SEWER LINES PRIOR TO ABANDONMENT TO DETERMINE LOCATION OF EXISTING SERVICE CONNECTIONS. SERVICE CONNECTIONS SHALL BE RECONNECTED TO PROPOSED SANITARY SEWER LOCATED IN THE IMMEDIATE VICINITY OF THE ABANDONED LINE. ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE IS NO PROPOSED SEWER TO
- 23. IN LIEU OF PIPE BURSTING, CONTRACTOR MAY ELECT TO INSTALL PIPE BY PIPE REAMING OR PIPE CRUSHING PER CITY OF TULSA STANDARD SPECIFICATIONS 406 AND 407 RESPECTIVELY.
- 24. REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE AND MANHOLES TO BE SUPPLIED WITH OMNI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE
- 25. QUICK SET CELLULAR CONCRETE OR FLOWABLE FILL TO BE USED TO BACKFILL AROUND STREET CURB INLETS AND PIPES AS DIRECTED BY THE ENGINEER.
- 26. WHEN CONNECTING PVC SERVICE LATERALS TO ANY PIPE OTHER THAN PVC, ROMAC STYLE 501 COUPLINGS OR ENGINEER APPROVED EQUAL SHALL BE USED. PVC COUPLINGS SHALL BE USED WHEN CONNECTING PVC PIPE. FLEXIBLE COUPLINGS SHALL NOT BE PERMITTED.

- 27. ALL CONCRETE USED FOR PAVING SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
- 28. ALL RISER RINGS INSTALLED ON EXISTING AND NEW MANHOLES SHALL BE CRETEX PRO-RING OR ENGINEER APPROVED EQUAL. NO CONCRETE RISER RINGS ARE PERMITTED FOR USE UNLESS APPROVED BY ENGINEER
- 29. ALL NEW MANHOLES SHALL HAVE WALL JOINTS WRAPPED WITH 9" INFISHIELD GATOR WRAP AS MANUFACTURED BY SEALING SYSTEMS INC. OR ENGINEER APPROVED EQUAL. (NO SEPARATE PAYMENT).
- 30. ALL STEEL CASING INSTALLED SHALL HAVE A MINIMUM WALL THICKNESS OF 1/2-INCH AND BE IN ACCORDANCE
- SHALL BE PG 70-28 OK-INSOLUBLE. ALL ASPHALT MIX DESIGNS SHALL BE PAID BY ASPHALT REMOVAL AND REPLACEMENT PAY ITEM. (NO SEPARATE PAYMENT).
- 32. TESTING AND CHLORINATION OF WATER MAINS SHALL BE PERFORMED BY THE CITY OF TULSA. TESTING, CHLORINATION, AND FLUSHING SHALL BE DONE IN ACCORDANCE WITH SECTION 109.3 OF THE GENERAL SPECIFICATIONS.
- A. CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY PLUGS WITH ADEQUATE BLOCKING OR RESTRAINTS, PLUS CORPORATION STOPS, AS DIRECTED BY CITY TESTING PERSONNEL. THEN ONCE TESTING, CHLORINATION AND FLUSHING BY CITY PERSONNEL IS COMPLETED, REMOVE TEMPORARY BLOCKING AND TIE INTO EXISITING SYSTEM, USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION.
- B. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFOMRED BY CITY PERSONNEL ON MAINS WHICH ARE PHURSICALLY DISCONNECTED FROM THE EXISTING WATER SYSTEM. TESTING. CHLORINATION, AND FLUSHING OF NEW WATER MAINS SHALL NOT BE PERFORMED AGAINST VALVES WHICH ARE PHYSICALLY CONNECTED TO EXISITNG SYSTEM.
- C. ALL COSTS FOR TEMPORARY PLUGS, BLOCKING, RESTRAINING, CORPORATION STOPS, TUBING, THREADED CONNECTIONS, BLEACH AND OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE.
- 33. BURIED BOLTS, HARNESS LUGS, AND COUPLINGS SHALL BE GIVEN TWO COATS OF KOPPER'S BITUMASTIC 300-M (DRY MIL THICKNESS OF 16 MILS) OR EQUAL. COST TO BE INCLUDED IN UNIT PRICE BID FOR PIPE AND
- 34. ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PIRCE BID FOR PIPE OR FITTINGS.
- A. DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRIFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK. CLOW TUFGRIP OR EQUAL SHALL BE USED ON THIS PROJECT.
- 35. ALL CUT ENDS AND WHERE SALVAGED FITTINGS HAVE BEEN REMOVED FROM ABANDONED WATER LINES LEFT IN PLACE, SHALL BE PLUGGED WITH 24" OF CONCRETE INSIDE THE PIPE. COST OF CONCRETE PLUGGING TO BE INCLUDED IN UNIT PRICE BID FOR PIPE, NO ADDITIONAL PAYMENT SHALL BE MADE.
- 36. DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONSTRUCTION SPEC 307.3 AND 307.4. COST WILL BE INCLUDED IN COST OF DUCTILE IRON PIPE.
- 37. ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN COST OF SLEEVES/ADAPTERS.
- 38. PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED REQUIRED CONSTRUCTION AS-BUILT RECORDS.
- 39. THE CONTRACTOR MAY BID EITHER SLIPLINE OR CIPP FOR THE LINE SEGMENTS INCLUDED IN THIS PAY ITEM.
- 40. PAVEMENT REMOVAL AND REPLACEMENT FOR WATER, SANITARY, AND STORMWATER MAIN INSTALLATIONS - THIS PAY ITEM SUPERSEDES CITY OF TULSA STANDARD SPECIFICATION SECTION 329.6 AND 402.17, WITH RESPECT TO SAW CUTTING AND DOWELS, AND INCLUDES THE FOLLOWING (THESE ITEMS SHALL NOT BE PAID SEPARATELY):



- B. DOWELS
- C. DISPOSAL OF BROKEN PAVEMENT
- D. TEMPORARY SURFACE
- ASSOCIATED EXCAVATION
- PREPARATION OF SUBGRADE G. FORMS OR REINFORCING
- H. REMOVAL OR REPLACEMENT OF GRAVEL
- ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT DAMAGED BY THE CONTRACTOR
- J. JOINT SEALER, TACK COATS, OR EDGE SEALING

THIS PAY ITEM DOES NOT INCLUDE THE FOLLOWING WHICH WILL BE PAID SEPARATELY IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS, DETAILS, AND DRAWINGS:

A. CURB AND GUTTER

DEESSIO JACOB 33769 Saul Buyl 7/14/2025

PAY QUANTITIES & NOTES TMUA PROJECT NO. ES 2025-09

COAL CREEK SMALL DIAMETER CONCRETE PIPE REPLACEMENT

CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: RJN GROUP, INC. CONSULTING ENGINEERS 4500 S. GARNETT ROAD SUITE 110, TULSA, OKLAHOMA 74146

			1300 S. GARRETT ROAD SUITE THE TOLING CHEMICHEN 71110					
REVISION	BY	DATE	PLAN SCALE:	DRAWN	RLP	07/2025	APPROVED:	
▲ ADDENDUM 1	JWB	07/08/2025		DESIGNED	JWB	07/2025	0	
			PROFILE SCALE:	SURVEY			1 1 m	
			HORIZONTAL:	PROJ. MGR.			رجي اري	
		-		LEAD ENGR.			Kolona	
			VERTICAL	FIELD MGR.			DESIGN MANAGER	
			FILE:	DRAWING:	DRAWING:		DATE: July 2025	
			ATLAS PAGE NO	(O:			SHEET 4 OF 59 SHEETS	