

SURVEY CONTROL DATA

- ALL HORIZONTAL COORDINATE VALUES SHOWN ARE U.S. SURVEY FEET AND ALL VERTICAL ELEVATION VALUES ARE SHOWN IN FEET. HORIZONTAL DATUM IS NAD 83(2011), OKLAHOMA NORTH ZONE. VERTICAL DATUM IS NAVD 88.
- CONTROL POINTS WERE ESTABLISHED BY 2 10 MINUTE RTK GPS SHOTS UTILIZING NETWORK WITH A TSC5 TRIMBLE CONTROLLER AND R12 GPS UNITS ON 2/5/2025.

PLANS FOR STORM SEWER REPLACEMENT AT 3939 S. MEMORIAL DRIVE

WATER AND SEWER DEPARTMENT
CITY OF TULSA, OKLAHOMA
PROJECT NO. SW-2023-01-03

INDEX OF SHEETS

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2.-3.	PAY ITEMS & NOTES
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5.	EXISTING SITE PLAN
6.-7.	STORM PLAN & PROFILES
8.	STORM CONNECTION DETAILS

COT STANDARD DRAWINGS:

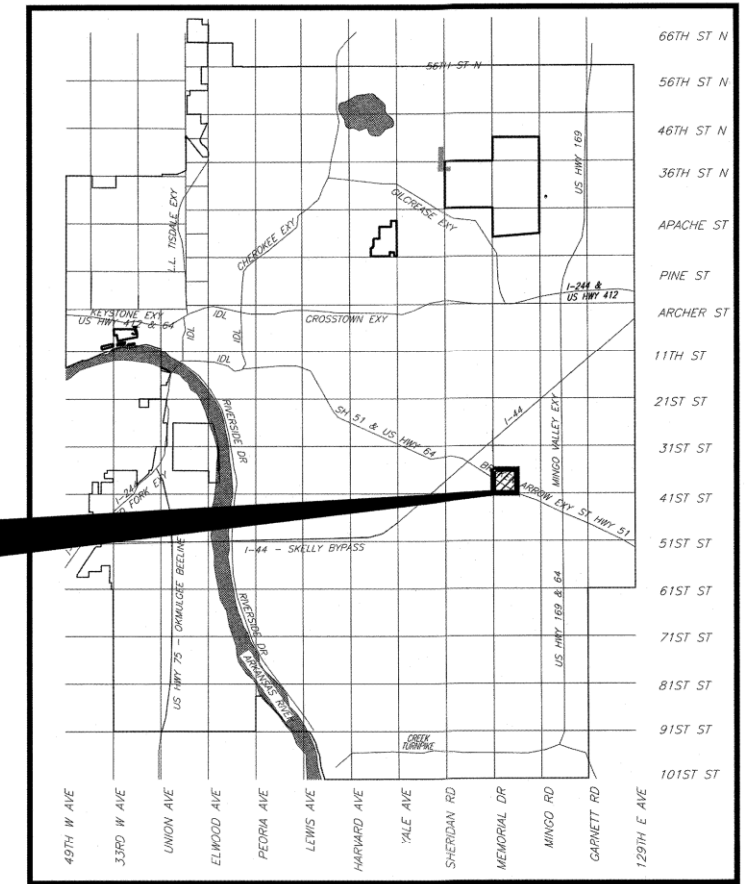
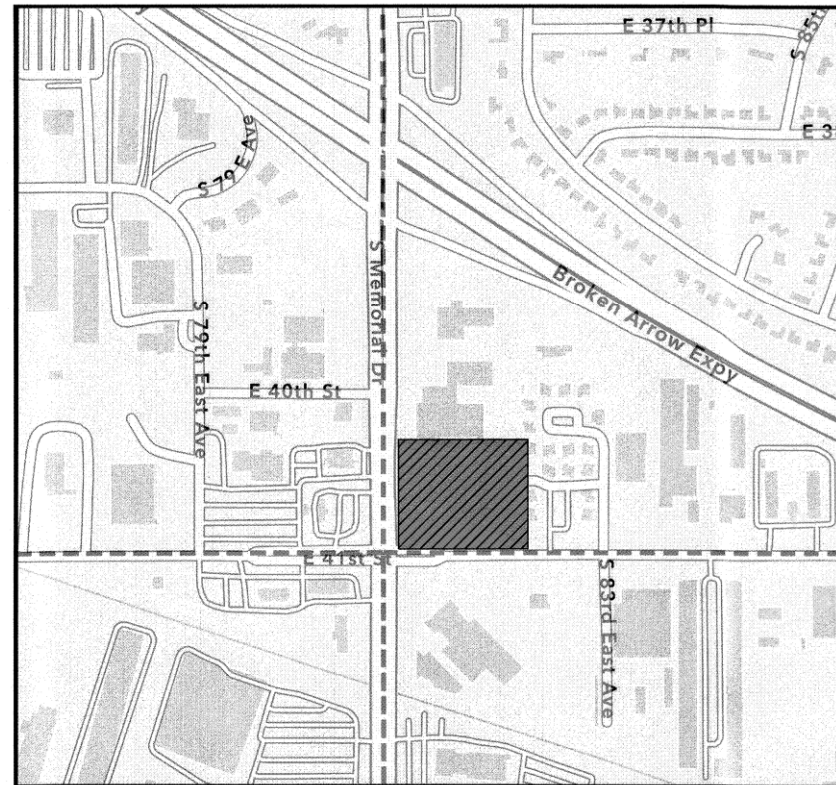
- 713 STANDARD DETAIL FOR PAVEMENT REMOVAL AND REPLACEMENT
- 725 STANDARD PAVEMENT PATCH AND REPAIR
- 730 STANDARD ASPHALT PAVEMENT CUT & REPAIR
- 751 PIPE BEDDING DETAIL FOR STORM SEWER
- 754 FRAME AND LID FOR 6' AND 8' I.D. STORMWATER MANHOLE

ODOT STANDARD DRAWINGS:

- SMD-4-2 STANDARD MEDIAN DRAINS (18" TO 36" PIPES)
- MJB-4-2 CAST IN PLACE MANHOLES AND JUNCTION BOXES

LEGEND

	PROPOSED ROADS		PROP. FIRE HYDRANT
	SECTION LINES		PROP. WATER VALVE
	QUARTER SECTION LINES		PROP. WATER METER
	FENCES (EXISTING)		EXIST. FIRE HYDRANT
	EXISTING GRADE		EXIST. WATER VALVE
	EXISTING ROADS		EXIST. WATER METER
	EXISTING INDEX CONTOURS		EXIST. SPRINKLER HEAD
	EXISTING INTERMEDIATE CONTOURS		EXIST. SAN. SEW. MANHOLE
	BASE LINE		EXIST. STORM SEWER MANHOLE
	PROPOSED GRADE		EXIST. CLEAN OUT
	COMMUNICATION LINES (EXISTING)		EXIST. GAS METER
	POWER LINES (EXISTING)		EXIST. GAS VALVE
	GAS LINE (EXISTING)		EXIST. GAS MARKER
	SANITARY SEWER LINES (EXISTING)		EXIST. TELEVISION POLE
	WATER LINES (EXISTING)		EXIST. TELEPHONE VAULT
	COMMUNICATION LINES (PROPOSED)		EXIST. TELEPHONE PEDESTAL
	POWER LINES (PROPOSED)		EXIST. ELECTRIC VAULT
	GAS LINE (PROPOSED)		EXIST. ELECTRIC PEDESTAL
	SANITARY SEWER LINES (PROPOSED)		EXIST. ELECTRIC SERVICE
	WATER LINES (PROPOSED)		EXIST. PULL BOX
	BUILDINGS (EXISTING)		
	DRAINAGE STRUCTURES (EXISTING)		
	DRAINAGE STRUCTURES (PROPOSED)		
	RIGHT-OF-WAY LINES (EXISTING)		
	RIGHT-OF-WAY LINES (PROPOSED)		
	RIGHT-OF-WAY FENCE		
	FLOWLINE (EXISTING)		
	FLOWLINE (PROPOSED)		
	TOE OF SLOPE (EXISTING)		



VICINITY MAP
1" = 2 MILES

UTILITY COORDINATION

	NUMBER		
CITY OF TULSA	(918) 596-9245	TONY GLEN	
AEP/PSO	(888) 216-3523	EMERGENCY	
OKLAHOMA NATURAL GAS CO.	(800) 664-5463	EMERGENCY	
AT&T DISTRIBUTION	(800) 288-2020	EMERGENCY	
COX COMMUNICATIONS	(918) 806-6000	CUSTOMER SERVICE	
VERIZON	(888) 294-6804	CUSTOMER SERVICE	
WINDSTREAM	(800) 347-1991	CUSTOMER SERVICE	

ROADWAY
CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY CITY OF TULSA ORDINANCE 24616, JUNE 2021.

WATER & SEWER
THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIREMENTS. ENTIRE PROJECT IS WITHIN CORPORATE LIMITS OF CITY OF TULSA. CURRENT CITY OF TULSA PUBLIC WORKS STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN.



CEC CORPORATION
1300 S. Main Street
Tulsa, Oklahoma 74137
T: (918) 663-9401
F: (918) 663-9404
WWW.CONNECTCEC.COM
C.A. #32 EXPIRES 06/30/26



T. Glen
CITY ENGINEER 3/12/2026
DATE

J. Coltrane
DIRECTOR OF WATER & SEWER 3/19/2026
DATE

ADVERTISEMENT DATE:

ENGINEER'S CERTIFICATION:

Jason Coltrane
JASON I. COLTRANE, P.E. NO. 27695 12/8/25
DATE

PLOT DATE: March 17, 2026, DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\PAY ITEMS & NOTES.DWG

Table with columns: ITEM, SPEC, DESCRIPTION, PAY ITEM NOTES, UNIT, QUANTITY. Contains 30 rows of construction items such as 'CLEARING AND GRUBBING', 'UNCLASSIFIED EXCAVATION', 'SEPARATOR FABRIC', etc.

GENERAL CONSTRUCTION NOTE

ITEMS LISTED OR SHOWN ON DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS THAT ARE NOT INCLUDED AS A SEPARATE PAY ITEM QUANTITY SHALL BE CONSIDERED INCIDENTAL AND THE COST SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS.

PAY ITEM NOTES (ROADWAY: 05.03.2023)

EARTHWORK/EROSION CONTROL/SITE PREPARATION

- E-1 ALL COSTS FOR REMOVING TREES, SHRUBS, STUMPS, POSTS, AND ALL OTHER DEBRIS AND/OR OBSTRUCTIONS NOT COVERED BY A SEPARATE PAY ITEM ARE INCLUDED IN THE PRICE BID.
E-2 ALL EXISTING DRAINAGE STRUCTURES SHALL BE CLEANED AND CLEARED OF ALL SEDIMENTATION AND DEBRIS TO THE RIGHT OF WAY.
E-3 THE CONTRACTOR SHALL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY.

SURFACING / STRUCTURES

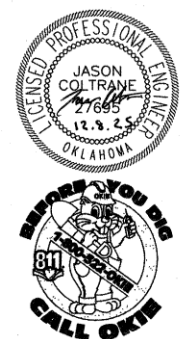
- S-1 TYPE A AGGREGATE BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING.

- S-2 INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.
S-3 SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2 FT AT ALL EDGES OF THE REPAIR.
S-4 NOT USED
S-5 NOT USED
S-6 NOT USED
S-7 NOT USED
S-8 NOT USED
S-9 NOT USED
S-10 NOT USED
S-11 NOT USED
S-12 THE USE OF FLY-ASH IN CONCRETE IS PROHIBITED.

- G-7 AN INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) CERTIFIED ARBORIST SHALL OVERSEE ALL PLANTINGS AND/OR REMOVAL OF TREES. CONTACT CITY ARBORIST TO ACCEPT FINAL PLANTINGS. CONTACT # 918-596-2548
G-8 TREE GRATES ARE NOT ACCEPTABLE PER CITY ARBORIST. CONCRETE PAVERS ARE TO BE USED AS NECESSARY AROUND TREES.
G-9 CONTRACTOR SHALL COORDINATE WITH HOMEOWNERS TO RESET ALL PAVERS, LANDSCAPE STONE, PRIVATE SIDEWALKS AND FENCES THAT ARE DISTURBED DURING CONSTRUCTION OPERATIONS.

DRAINAGE

- D-1 THIS ITEM SHALL INCLUDE THE COST OF NEW MANHOLE FRAME AND COVER PER CITY OF TULSA STD NOS. 752, 753, 754, 761, 762, 769A, 769B AND 775.
D-2 THE TOTAL COST FOR RUBBERIZED ASPHALT AND/OR SILICONE AT MANHOLES, VALVE BOXES, INLETS, AND INLET APRONS, SHALL BE INCLUDED.
D-3 NO MASONRY STRUCTURES SHALL BE CONSTRUCTED WITHIN THE RIGHT OF WAY.
D-4 ADDITIONAL DEPTH IN A MANHOLE SHALL BE MEASURED FROM 6-FT AS MEASURED FROM THE TOP OF RIM TO THE LOWEST FLOWLINE.



PAY ITEMS & NOTES (1 OF 2)
PROJECT NO. SW-2023-01-03
3939 S. MEMORIAL DRIVE: STORM SEWER REPLACEMENT
CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT
CEC Corporation
1300 S. Main Street Tulsa, OK 74119
(918) 663-9401

Table with columns: REVISION, BY, DATE, PLAN SCALE, DRAWN, E.M.B., APPROVED. Includes drawing details and a signature for the design manager.

PLOT DATE: December 4, 2025, DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\PAY ITEMS & NOTES.DWG

PAY ITEM NOTES CON'T (ROADWAY: 05.03.2023)

TRAFFIC

- T-1 NOT USED
- T-2 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.
- T-3 ALL PLASTIC PAVEMENT MARKINGS SHALL BE EXTRUDED-APPLIED THERMOPLASTIC (USE ON ASPHALT PAVEMENT). THERMOPLASTIC PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN THE SURFACE TEMPERATURE EXCEEDS 55°F FOR ALL OF THE SIX HOURS PRIOR TO INSTALLATION AND MAXIMUM WIND GUSTS ARE BELOW 15 MPH AT THE TIME OF APPLICATION. PRICE BID TO INCLUDE FLEX TABS OR LIKE KIND FOR POST CONSTRUCTION LANE MARKING/SEPARATION. MECHANICALLY APPLIED PREFORMED PLASTIC TAPE ("COLD TAPE") WILL NOT BE ACCEPTED.
- T-4 NOT USED
- T-5 IF WARNING LIGHTS ARE 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 WAY, AND TYPE "C" LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.
- T-6 THE PAY ITEM FOR FLAGGER SHALL BE PAID FOR ON A FLAG DAY (F.D.) BASIS. ONE F.D. IS ONE COMPLETE WORKDAY PERFORMED BY THE CONTRACTOR AS SET FORTH IN THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- T-7 PRICE BID FOR THIS ITEM INCLUDES INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF PROJECT SIGN.
- T-100 CONTRACTOR IS RESPONSIBLE FOR LAYOUT COMPLIANCE WITH MUTCD, MAINTENANCE, AND REMOVAL.

GENERAL CONSTRUCTION NOTES (9.12.2016)

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS AMENDED AND ADOPTED BY THE CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS. ODOT SPECS MODIFIED BY CITY ORDINANCE.
2. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES, AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTION ON AS HIS OWN RESPONSIBILITY OR AS THE ENGINEER MAY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACT.
3. PAY ITEMS SHALL BE AS SPECIFIED ON THE CITY OF TULSA OR ON THE ODOT STANDARD DRAWINGS EXCEPT AS MODIFIED BY THE CONTRACT.
4. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES.
5. THE LOCATIONS OF THE UTILITIES ARE SHOWN ACCORDING TO ALL AVAILABLE INFORMATION. THE CONTRACTOR SHALL NOTIFY EACH UTILITY OWNER PRIOR TO COMMENCEMENT OF WORK TO VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS. THE FOLLOWING IS A LIST OF UTILITY OWNERS; AT&T, PUBLIC SERVICE COMPANY OF OKLAHOMA (AEP), OKLAHOMA NATURAL GAS (ONG), COX COMMUNICATIONS, MCI/VERIZON, EASYTEL COMMUNICATIONS, WELLSCO VALLOR TELECOM, CITY OF TULSA-WATER AND SEWER, CITY OF TULSA-TRAFFIC OPERATIONS. SEE TITLE SHEET FOR CONTACT INFORMATION.
6. THE CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS NOR LATER THAN 48 HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, PRIOR TO THE COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
7. THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PREVENT EXCESS MOISTURE FROM INCLEMENT WEATHER OR OTHER SOURCES FROM ENTERING ANY STREET EXCAVATION. IF EXCESS MOISTURE DOES ENTER THE EXCAVATION THROUGH THE NEGLIGENCE OF THE CONTRACTOR AND THE ADJOINING PAVEMENT IS ADVERSELY EFFECTED BY THE EXCESS MOISTURE, THE CONTRACTOR SHALL REPLACE THE ADJOINING PAVEMENT AND SUBBASE AT HIS SOLE EXPENSE.
8. THE CONTRACTOR SHALL PRESERVE THE INTEGRITY OF THE SANITARY SEWER STRUCTURES AND ALL OTHER UTILITY STRUCTURES WITHIN THE PROJECT EXTENTS.
9. THE CONTRACTOR SHALL WORK IN COOPERATION WITH THE CITY OF TULSA TO ESTABLISH, INSTALL, MAINTAIN, AND OPERATE COMPLETE, ADEQUATE, AND SAFE TRAFFIC CONTROLS DURING THE ENTIRE CONSTRUCTION PERIOD. ALL FLAGMEN, BARRICADES, AND TRAFFIC CONTROL DEVICES SHALL BE APPROVED BY THE FIELD ENGINEERING REPRESENTATIVE.
10. CONSTRUCTION SIGNAGE WILL BE INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT ADDITION, AND APPLICABLE ODOT STANDARD DRAWINGS. THE CONTRACTOR SHALL PROVIDE A PROPOSED TRAFFIC CONTROL PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING WORK.
11. THE CONTRACTOR SHALL NOTIFY THE CITY OF TULSA FIELD ENGINEERING A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS. ALL SIGNS SHALL BE HANDLED IN A MANNER SO AS NOT TO DAMAGE THE SIGN AND/OR POST. ALL TRAFFIC SIGNS REMOVED DUE TO CONSTRUCTION SHALL BE REINSTALLED BY THE CITY/CONTRACTOR.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ALL EXISTING TRAFFIC SIGNS AND MARKINGS REMOVED OR DAMAGED AS LISTED IN THE SIGNAGE SCHEDULE FOR THE PROJECT. ALL SIGNS AND POLES PROVIDED SHALL BE NEW AND UNDAMAGED AND SHALL MEET THE REQUIREMENTS OF COT SPECIFICATION 608 TRAFFIC SIGNS. ALL TRAFFIC MATERIALS REMOVED SHALL BE HANDLED PER COT SPECIFICATION 625 REMOVAL OF TRAFFIC ITEMS.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPARATION AND DISTRIBUTION OF A WRITTEN NOTICE TO RESIDENTS 48 HOURS PRIOR TO BEGINNING PAVEMENT REMOVAL AND MILLING AND OVERLAY OPERATIONS.

14. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH THE PROJECT AT ALL TIMES.
15. ALL PUBLIC AND PRIVATE STREETS AND DRIVES SHALL BE ACCESSIBLE AT ALL TIMES.
16. ALL BROKEN CONCRETE, WASTE MATERIAL, AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THE DISPOSAL OF THIS MATERIAL.
17. ALL EXCAVATED MATERIAL NOT REQUIRED IN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE ENGINEER WITHOUT COST TO THE CITY. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY MATERIAL IS STORED ON THE PROJECT SITE AND/OR DISPOSED OF WITHIN THE CITY LIMITS.
18. ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER IS TO BE CLEANED OUT TO THE RIGHT-OF-WAY LINE IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF WORK. TREES OUTSIDE THE FILL SLOPES AND THE TOP OF CUT SLOPES SHALL NOT BE DISTURBED EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.
19. WHERE MATERIALS ARE TRANSPORTED IN THE PROSECUTION OF WORK, VEHICLES SHALL NOT BE LOADED BEYOND THE CAPACITY RECOMMENDED BY THE VEHICLE MANUFACTURER OR AS PRESCRIBED BY ANY FEDERAL, STATE, OR LOCAL LAW OR REGULATION.
20. ANY DAMAGE TO THE ROADWAY PAVEMENT, CURB, DRIVEWAYS, OR SIDEWALK CAUSED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED TO THE ENGINEER'S SATISFACTION AND SHALL BE ACCOMPLISHED AT THE CONTRACTOR'S SOLE EXPENSE. ALL DISTURBED ITEMS SHALL BE REPAIRED TO MATCH EXISTING MATERIALS AND PATTERNING.
21. IF THE CONTRACTOR ENCOUNTERS VOIDS WHEN PATCHING STREETS, THE CONTRACTOR SHALL CALL FIELD ENGINEERING AT FOR AN INSPECTION BEFORE PROCEEDING WITH WORK.
22. THE PROJECT SHALL BE CONSTRUCTED WITH CONTINUOUS FLOW OF MATERIAL SUPPLIED TO THE PROJECT SUCH THAT THE LAYDOWN MACHINE WILL REMAIN IN MOTION. ANY DELAY IN FORWARD PROGRESSION OF THE LAYDOWN MACHINE MAY REQUIRE A TRANSVERSE JOINT AS DIRECTED BY THE ENGINEER.
23. NO FLY ASH IS ALLOWED TO BE USED ON THIS PROJECT.
24. PHYSICAL TESTING FOR QUALITY ASSURANCE SHALL BE FURNISHED BY THE CITY.
25. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY QUALITY CONTROL TESTING TO ENSURE THAT PROJECT REQUIREMENTS ARE MET.
26. MASONRY STRUCTURES SHALL NOT BE CONSTRUCTED WITHIN THE STREET RIGHT-OF-WAY.
27. ALL CONCRETE CURB AND GUTTERS SHALL BE MONOLITHIC POURS. DOWELED-ON CURBS WILL NOT BE ALLOWED.
28. NO LIFTING HOLES WILL BE ALLOWED ON ANY REINFORCED CONCRETE PIPES OR REINFORCED CONCRETE BOXES.
29. CURB RAMP CONSTRUCTION SHALL COMPLY WITH THE CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS.
30. 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.
31. ALL SANITARY AND STORM SEWER MANHOLE CASTINGS AND LIDS THAT ARE LOCATED IN THE STREET AND ARE DISTURBED BY THE CONTRACTOR SHALL BE REPLACED WITH NEW LIDS AND CASTINGS AND THE OLD ONES SHALL BE SALVAGED AND DELIVERED TO THE METAL RECYCLE BINS IN THE STOCKROOM AREA AT SEWER OPERATIONS AND MAINTENANCE, 9319 E. 42ND STREET NORTH, BETWEEN THE HOURS OF 7:30 AM AND 3:00 PM MONDAY THROUGH FRIDAY.
32. THE SIGN PLACEMENT STATIONING AND LOCATIONS SHOWN ON THE PLAN SHEETS AND SUMMARY SHEETS ARE APPROXIMATE. EXACT STATIONING AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH CITY OF TULSA STANDARDS, CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES, OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.
33. POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
34. ALL ASPHALT STREETS THAT ARE TO BE RECONSTRUCTED SHALL BE LEFT WITH A DRIVABLE SURFACE AT ALL TIMES. THE CONTRACTOR WILL NOT BE ALLOWED TO MILL OFF ALL THE ASPHALT BEFORE EXCAVATION BEGINS.
35. THE CONTRACTOR SHALL REPLACE ANY SECTION CORNERS OR OTHER PERMANENT RIGHT OF WAY MARKERS REMOVED OR DISTURBED AS A RESULT OF THE CONSTRUCTION OF THIS PROJECT. REPLACEMENT OF SECTION CORNERS OR ANY OTHER MONUMENTS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR AUTHORIZED TO PERFORM WORK IN THE STATE OF OKLAHOMA.
36. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL AND MAINTENANCE OF THE STORMWATER DRAINAGE. STORMWATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED.
37. STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
38. THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
39. PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
40. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, AND CROSSWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, ACCESSIBILITY GUIDELINES, AND THE PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY, PUBLISHED ON JULY 26, 2011 BY THE U.S. ACCESS BOARD. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THIS ACT, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH THE ADA WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK, WHICH IS NOT PREFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

41. ALL TRENCH WIDTHS & BEDDING MATERIAL SHALL BE AS SHOWN ON COT STANDARD PIPE BEDDING DETAIL, STANDARD NO. 751. SPECIFIED TRENCH WIDTHS SHALL BE MAINTAINED FULL DEPTH FROM THE FLOWLINE TO THE GRADING TEMPLATE. THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED.
42. THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), VALERIE COURCHESNE 918-982-6882, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
43. CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAN.



PAY ITEMS & NOTES (2 OF 2)

PROJECT NO. SW-2023-01-03

3939 S. MEMORIAL DRIVE:
STORM SEWER REPLACEMENT

CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT

CEC Corporation
1300 S. Main Street Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE	PLAN SCALE:	DRAWN	E.M.B.	03/2025	APPROVED:
-	-	-	N/A	DESIGNED	J.I.C.	03/2025	 DESIGN MANAGER
-	-	-	-	SURVEY	T.B.	02/2025	
-	-	-	PROFILE SCALES:	PROJ. MGR.	T.W.	12/25	
-	-	-	HORIZONTAL:	LEAD ENGR.	<i>Bob</i>	12/25	 DESIGN MANAGER
-	-	-	VERTICAL:	FIELD MGR.	<i>Paul</i>	2/26	
-	-	-	DRAWING: PAY ITEMS & NOTES.DWG				DATE
-	-	-	ATLAS PAGE NO: 133				SHEET 3 OF 8

PLOT DATE: December 4, 2025, DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\PAY ITEMS & NOTES.DWG

SUMMARY OF DRAINAGE STRUCTURES															
DRAINAGE STRUCTURE NUMBER	STATION	NORTHING	EASTING	DESCRIPTION	DESIGN STANDARD	INLET TOP OF MH TOP OF RIM	INVERT ELEVATION	INNER STR. HEIGHT	SMD TYPE 1	ADD'L DEPTH SMD INLET	7' DIA. MANHOLE	ADD'L DEPTH 7' DIA. MH	INLET FRAME AND GRATE (SMD TYPE 1)	18" ROUND PIPE	48" RCP
						(FT)	(FT)	(FT)	(EA)	(VF)	(EA)	(VF)	(EA)	(LF)	(LF)
EX-MH 1	0+08.05	40958.70	2592803.80	EXIST. MANHOLE INSTALL 232 LF OF 18" RCP TO STR-1	-	679.12	675.35	3.77						232	
STR-1	2+40.29	409175.12	2593004.76	REMOVE EXIST. INLET INSTALL SMD TYPE 1 (TYPE 1 GRATE) INSTALL 246 LF OF 18" RCP TO STR-2	ODOT SMD-4 (SHEET R-29)	674.76	671.73	3.03	1	0.47			1	246	
STR-2	4+77.34	409142.53	2593239.55	REMOVE EXIST. INLET INSTALL SMD TYPE 1 (TYPE 1 GRATE) INSTALL 19 LF OF 18" RCP TO STR-3	ODOT SMD-4 (SHEET R-29)	673.02	669.01	4.01	1	1.45			1	11	
STR-3	4+96.80	409142.82	2593259.01	MANHOLE, 7' ID., CONCRETE CAST-IN-PLACE ON EXIST. 48" RCP INSTALL 5' 48" RCP UPSTREAM AND DOWNSTREAM	ODOT MJB-4-2 (SHEET R-49)	674.41	666.4	8.01			1	2.01			10
TOTALS									2	2	1	3	2	489	10

SUMMARY OF SURFACING QUANTITIES										
SECTION	PATCH AREA	UNCLASSIFIED EXCAVATION	AGGREGATE BASE, TYPE A	SEPARATOR FABRIC	TYPE I AC PATCH		TYPE I PCC PATCH		CONCRETE CURB (6" BARRIER)	TRAFFIC STRIPE 4" WIDE (PLASTIC, WHITE)
		202(A)	303(A)	325	SPECIAL	SPECIAL	609(B)	609(B)		
	(SY)	(CY)	(CY)	(SY)	(INCH)	(CY)	(SY)	(CY)	(LF)	(LF)
1	122.6	85.9	85.9	331.5	8.5	28.9	-	-	8	126
2	37.7	24.5	24.5	31.5	-	-	8	8.4	-	-
3	169.9	100.3	100.3	387.0	8.5	40.1	-	-	25	148
TOTAL		211	211	750		69		9	33	274

SUMMARY OF REMOVALS						
SECTION	PAVEMENT (AC)	PAVEMENT (PCC)	SIDEWALK	CURB AND GUTTER	STORM PIPE	DRAINAGE INLET
	(SY)	(CY)	(SY)	(LF)	(LF)	(EA)
1	122.6		8.3	8	232	
2		37.7				1
3	169.9			25	267	1
TOTAL	292	38	9	33	499	2



SUMMARY TABLES

PROJECT NO. SW-2023-01-03

3939 S. MEMORIAL DRIVE:
STORM SEWER REPLACEMENT

CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT

CEC Corporation
1300 S. Main Street Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE	PLAN SCALE:	DRAWN	E.M.B. 03/2025	APPROVED:
-	-	-	N/A	DESIGNED	J.I.C. 03/2025	 DESIGN MANAGER
-	-	-		SURVEY	T.B. 02/2025	
-	-	-	PROFILE SCALES:	PROJ. MGR.	TW R/S	
-	-	-	HORIZONTAL:	LEAD ENGR.	<i>Box 12/25</i>	
-	-	-	VERTICAL:	FIELD MGR.	<i>Box 2/26</i>	
-	-	-	DRAWING: PAY ITEMS & NOTES.DWG			DATE
ATLAS PAGE NO: 133						SHEET 4 OF 8

PLOT DATE: December 4, 2025. DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-11\PRODUCTION DRAWINGS\SITE MAP.DWG

MEMORIAL DR.

PACK THORNTON, LLC

LOT 3

BLOCK 1

TULSA 41ST PARTNERS, LLC

LOT 2

MULTIPLE OWNERS

E. 41ST ST.

CONTROL POINT				
NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
7401	409,061.4100	2,592,827.4700	679.72	SET 5/8" IRON PIN
7402	409,481.5200	2,593,245.8500	673.18	SET 5/8" IRON PIN

① 10' STORM SEWER EASEMENT IN FAVOR OF CITY OF TULSA BK.4857 PG.1904.



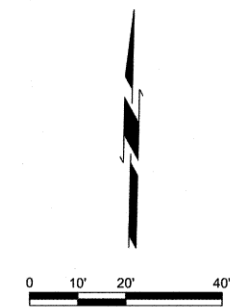
② STORM SEWER EASEMENT IN FAVOR OF CITY OF TULSA BK.4434 PG.954, 956.



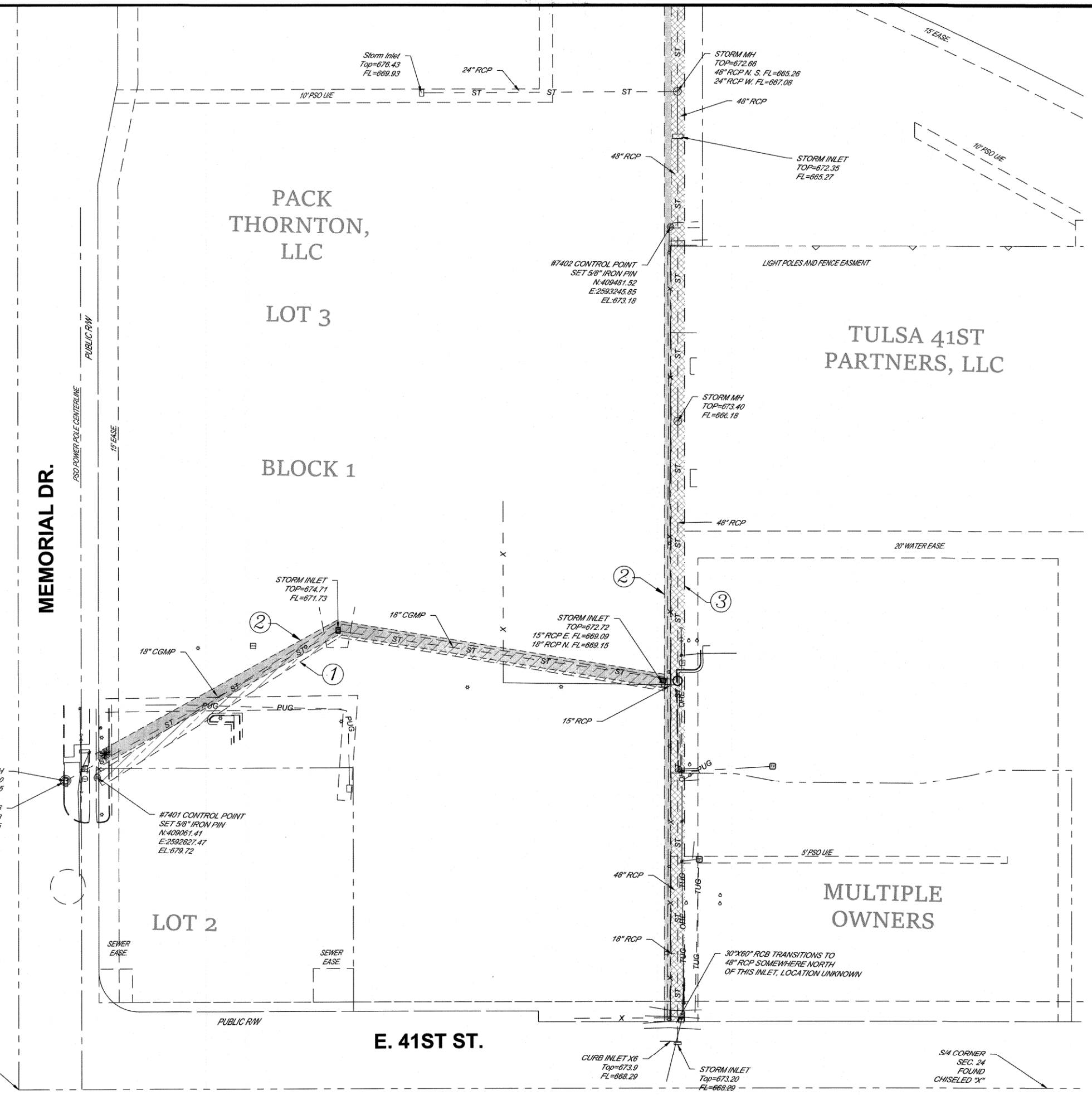
③ STORM SEWER EASEMENT IN FAVOR OF CITY OF TULSA BK.4129 PG.1743.



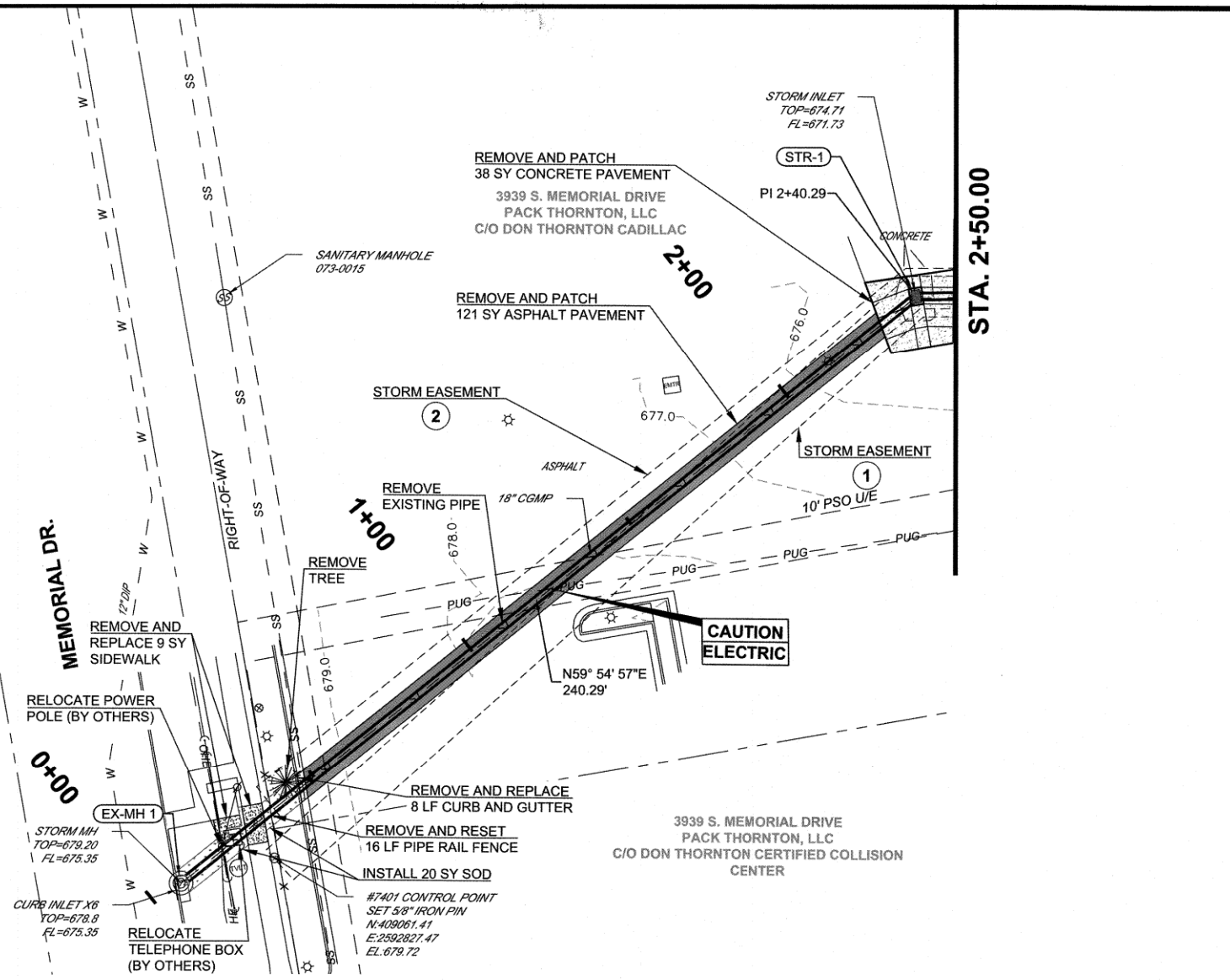
EXISTING SITE PLAN	
PROJECT NO. SW-2023-01-03	
3939 S. MEMORIAL DRIVE: STORM SEWER REPLACEMENT	
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT	
	CEC Corporation 1300 S. Main Street Tulsa, OK 74119 (918) 663-9401



REVISION	BY	DATE	PLAN SCALE:	DRAWN	E.M.B.	DATE	APPROVED:
-	-	-	1" = 60'	DESIGNED	J.I.C.	03/2025	 DESIGN MANAGER
-	-	-		SURVEY	T.B.	02/2025	
-	-	-	PROFILE SCALES:	PROJ. MGR.	T.W.	12/25	
-	-	-	HORIZONTAL:	LEAD ENGR.	B.C.	12/25	DATE SHEET 5 OF 8
-	-	-	VERTICAL:	FIELD MGR.	J.M.	2/26	
DRAWING: SITE MAP.DWG							DATE
ATLAS PAGE NO: 133							

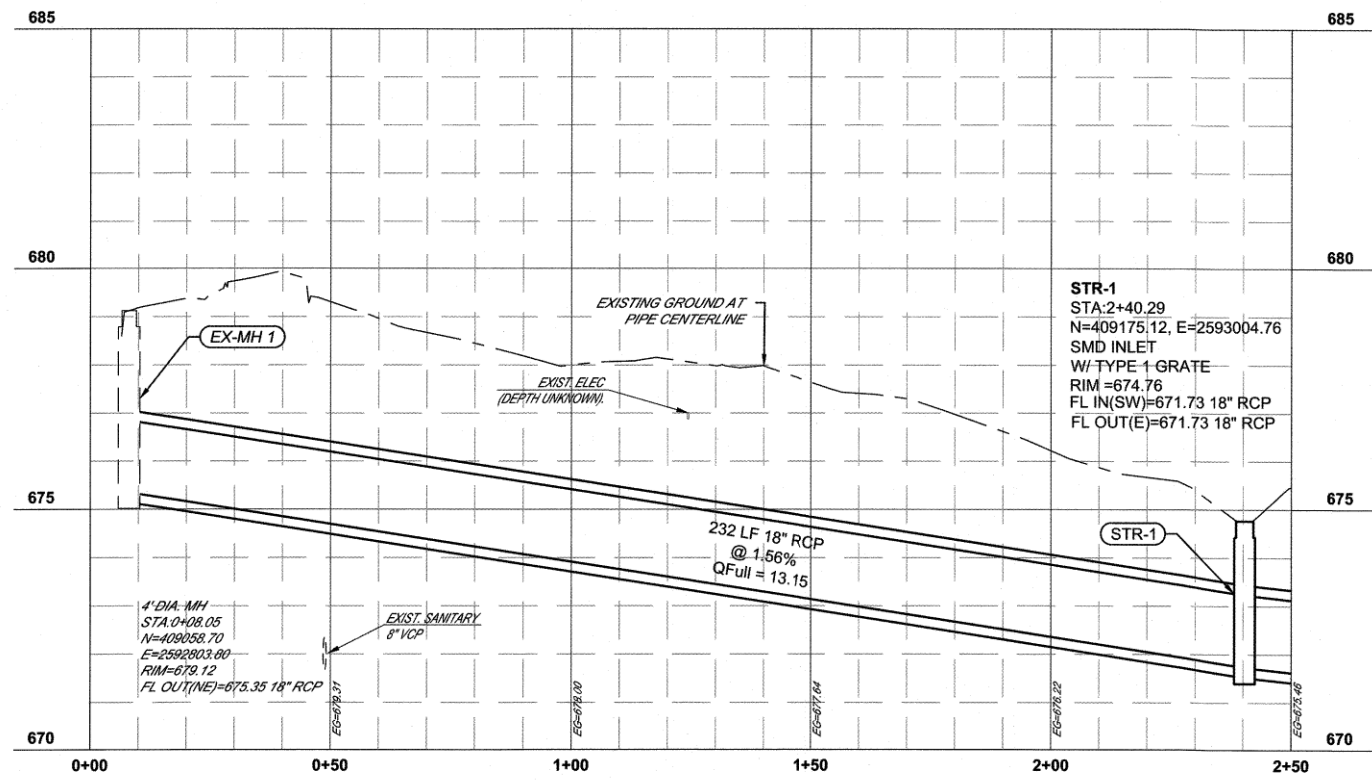


PLOT DATE: December 4, 2025, DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\STORM PLAN AND PROFILE.DWG



CONTROL POINT				
NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
7401	409,061.4100	2,592,827.4700	679.72	SET 5/8" IRON PIN
7402	409,481.5200	2,593,245.8500	673.18	SET 5/8" IRON PIN

LEGEND - PLAN	
	STORM SEWER PIPE
	CURB AND GUTTER
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT
	REMOVE AND REPLACE



NOTE: CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN FLOODPLAIN



STORM PLAN AND PROFILE (1 OF 2)
 PROJECT NO. SW-2023-01-03
 3939 S. MEMORIAL DRIVE:
 STORM SEWER REPLACEMENT
 CITY OF TULSA, OKLAHOMA
 WATER AND SEWER DEPARTMENT

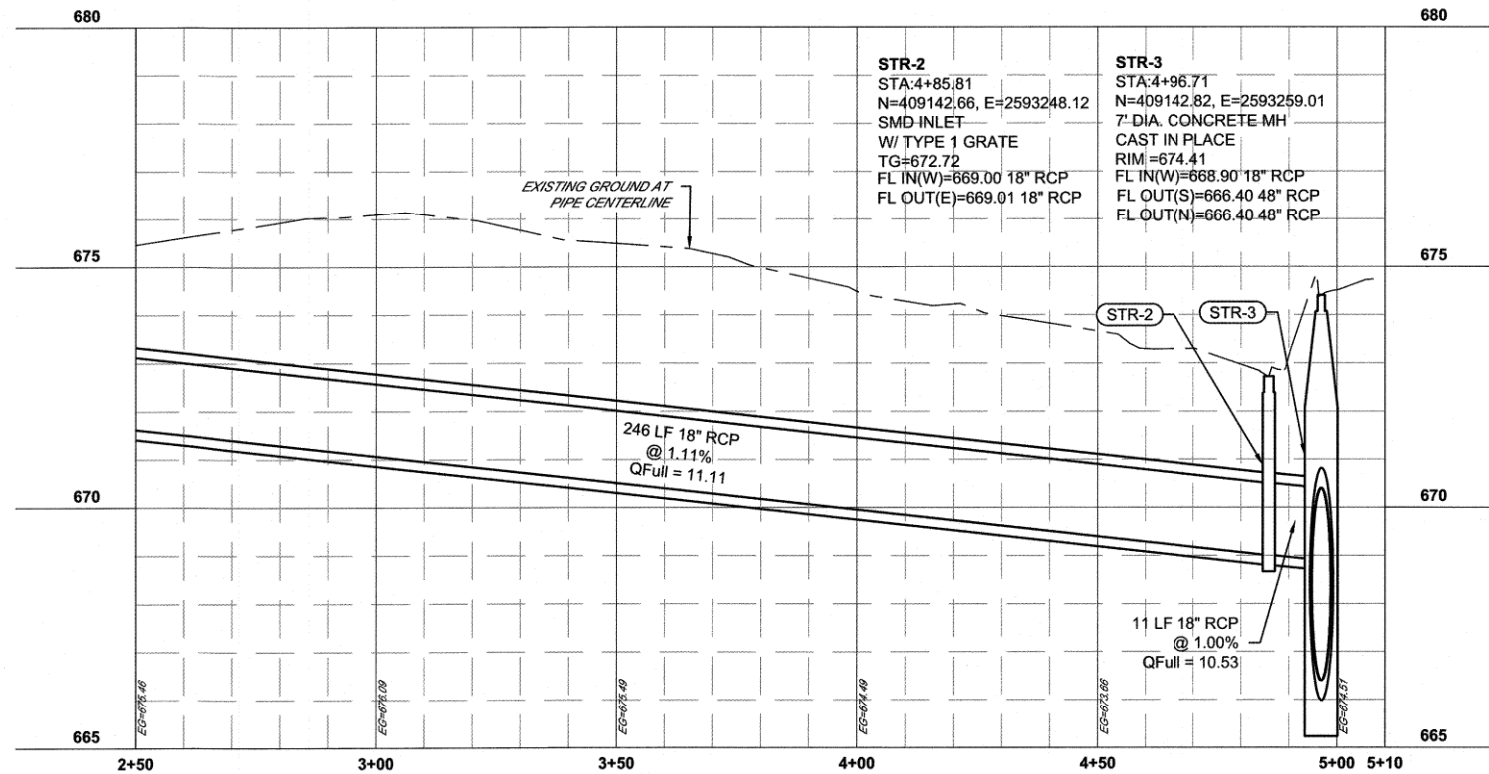
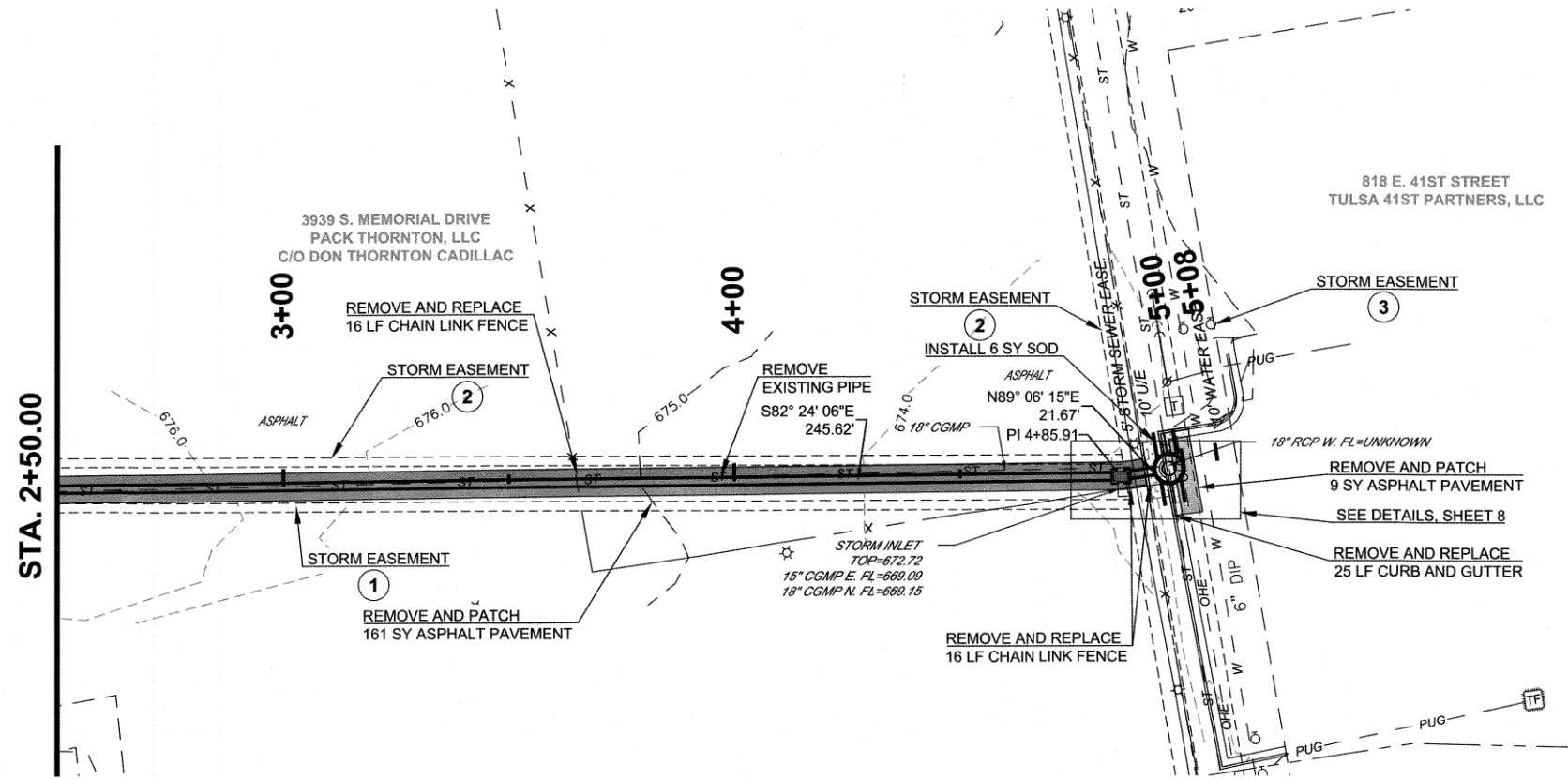
CEC Corporation
 1300 S. Main Street Tulsa, OK 74119
 (918) 663-9401

REVISION	BY	DATE	PLAN SCALE:	DRAWN	E.M.B.	03/2025	APPROVED:
-	-	-	1" = 20'	DESIGNED	J.L.C.	03/2025	 DESIGN MANAGER
-	-	-	PROFILE SCALES:	PROJ. MGR.	T.W.	12/25	
-	-	-	HORIZONTAL:	LEAD ENGR.	BOL	12/25	
-	-	-	1" = 20'	FIELD MGR.	Tom	2/26	DATE
-	-	-	VERTICAL:				SHEET 6 OF 8
-	-	-	1" = 5'				
DRAWING: STORM PLAN AND PROFILE.DWG							
ATLAS PAGE NO: 133							

PLOT DATE: December 4, 2025. DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\STORM PLAN AND PROFILE.DWG

CONTROL POINT				
NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
7401	409,061.4100	2,592,827.4700	679.72	SET 5/8" IRON PIN
7402	409,481.5200	2,593,245.8500	673.18	SET 5/8" IRON PIN

LEGEND - PLAN	
	STORM SEWER PIPE
	CURB AND GUTTER
	CONCRETE PAVEMENT
	ASPHALT PAVEMENT



NOTE: CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN FLOODPLAIN



STORM PLAN AND PROFILE (2 OF 2)

PROJECT NO. SW-2023-01-03

3939 S. MEMORIAL DRIVE:
STORM SEWER REPLACEMENT

CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT

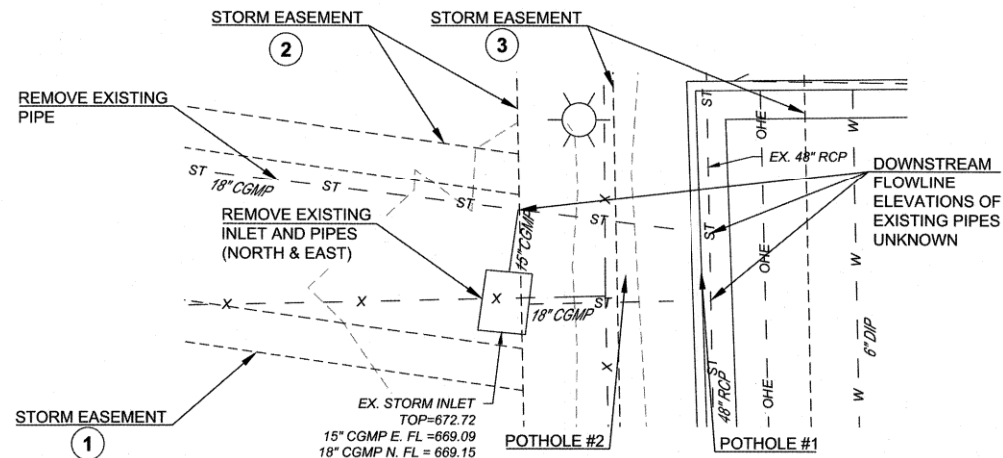
CEC Corporation
1300 S. Main Street Tulsa, OK 74119
(918) 663-9401

REVISION	BY	DATE	PLAN SCALE:	DRAWN	E.M.B.	DATE	APPROVED:
-	-	-	1" = 20'	DESIGNED	J.I.C.	03/2025	 DESIGN MANAGER
-	-	-	1" = 20'	SURVEY	T.B.	02/2025	
-	-	-	1" = 20'	PROJ. MGR.	TU	12/25	
-	-	-	1" = 20'	LEAD ENGR.	BOC	12/25	 FIELD MGR.
-	-	-	1" = 5'	FIELD MGR.	Tom	2/26	
-	-	-	DRAWING: STORM PLAN AND PROFILE.DWG		DATE		-
-	-	-	ATLAS PAGE NO: 133		SHEET 7 OF 8		-

PLOT DATE: December 4, 2025, DRAWING FILE: N:\PRODUCTION\MUNICIPAL\PROJECTS\TPWD - 2022 CITYWIDE DRAINAGE IMPROVEMENTS\TO-1\PRODUCTION DRAWINGS\STORM PLAN AND PROFILE.DWG

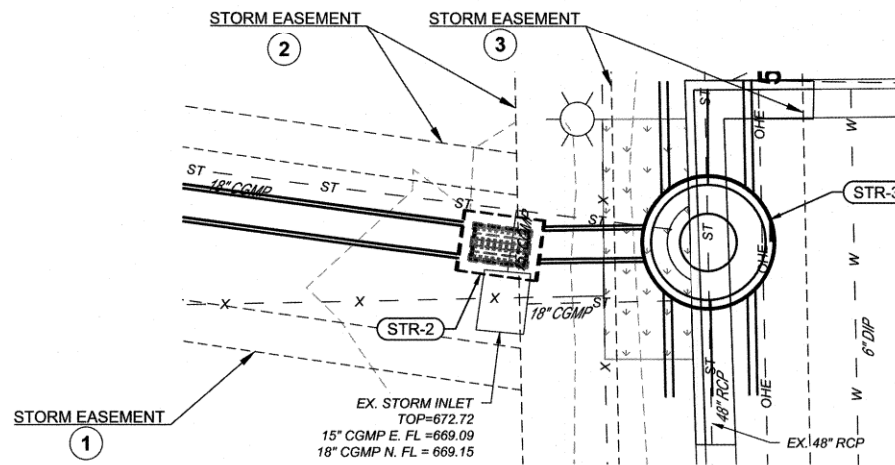
NOTE: ALL EXISTING INLETS AND PIPE BETWEEN EX-MH 1 AND 48-INCH STORM SEWER SHALL BE REMOVED.

POTHOLE	NORTHING	EASTING	ELEV.	UTILITY	DEPTH
1	409141.36	2593258.58	674.51	STORM 40" RCP	42"
2	409141.18	2593254.6	673.42	STORM CONCRETE CAP	27"



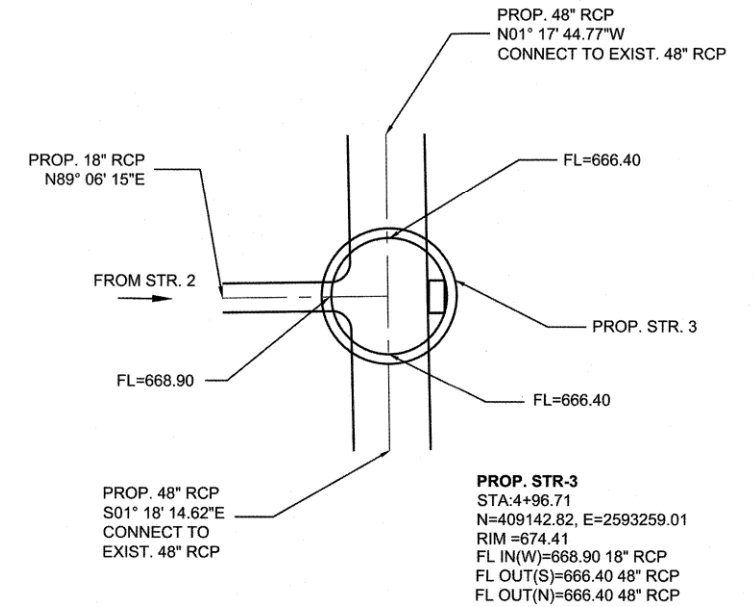
A CONNECTION TO 48" (EXISTING)

1" = 5'-0"



B CONNECTION TO 48" (PROPOSED)

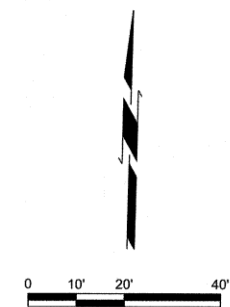
1" = 5'-0"



C STR. 3 MANHOLE DETAIL

1" = 5'-0"

NOTE: CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN FLOODPLAIN



STORM CONNECTION DETAILS			
PROJECT NO. SW-2023-01-03			
3939 S. MEMORIAL DRIVE: STORM SEWER REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
CEC Corporation		1300 S. Main Street Tulsa, OK 74119 (918) 663-9401	
PLAN SCALE:	DRAWN	E.M.B. 03/2025	APPROVED:
1" = 20'	DESIGNED	J.I.C. 03/2025	<i>Thomas G. M...</i> DESIGN MANAGER
	SURVEY	T.B. 02/2025	
PROFILE SCALES:	PROJ. MGR.	TW R/25	
HORIZONTAL:	LEAD ENGR.	BDL 12/25	
1" = 20'	FIELD MGR.	Zsu 2/26	
VERTICAL:			
1" = 5'			
DRAWING: STORM PLAN AND PROFILE.DWG			DATE
ATLAS PAGE NO: 133			SHEET 8 OF 8