

	PROP WATERLINE
	EX ROW
	PROPERTY LOT LINE
SS	EX SANITARY SEWER
X" W	EX WATERLINE
SD	EX STORM DRAIN
UGE	EX UNDERGROUND ELECTRIC
CBL	EX UNDERGROUND COMMUNICATION
G	EX GAS
OHP	EX OVERHEAD POWER
	PROP. WATER VALVE
	PROP. AIR RELIEF VALVE
	EX. WATER METER
	PROP. FIRE HYDRANT

Kimley»»Horn

UTILITY COORDINATION INFORMATION INSIDE OF RIGHT OF WAY		
COMPANY	CONTACT	OFFICE
City of Tulsa	<i>Tony Gilynn</i>	918-596-9245
AEP/PSO	Emergency	888-216-3523
ONG	Emergency	800-664-5463
AT&T	Emergency	800-288-2020
Cox	Customer Service	918-806-6000
Verizon	Customer Service	888-294-6804
Windstream	Customer Service	800-347-1991
MTTA	Customer Service	918-830-0024
UTILITY COORDINATION INFORMATION TULSA ENGINEERING SERVICES DEPARTMENT		
WATER DESIGN		918-596-9580
WASTEWATER DESIGN		918-596-9564
TRANSPORTATION DESIGN		918-596-9636
TRAFFIC ENGINEERING DESIGN		918-596-9741
STORMWATER DESIGN		918-596-9498

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
1	COVER SHEET
2	GENERAL NOTES & PAY QUANTITIES
3	CONSTRUCTION NOTES
4	WATER SUMMARY (1 OF 2)
5	WATER SUMMARY (2 OF 2)
6	WATER METER SUMMARY
7	OVERALL KEY MAP
8	FIRE HYDRANT LOCATION MAP
9	SURVEY CONTROL SHEET
10-13	WATERLINE A PLAN AND PROFILE SHEETS
14-17	WATERLINE B PLAN AND PROFILE SHEETS
18-21	WATERLINE C PLAN AND PROFILE SHEETS
22-24	WATERLINE D PLAN AND PROFILE SHEETS
25-27	WATERLINE E PLAN AND PROFILE SHEETS
28	WATERLINE F PLAN AND PROFILE SHEET
29	WATERLINE G PLAN AND PROFILE SHEET
30	WATERLINE A1 PLAN AND PROFILE SHEET
31	WATERLINE C1 PLAN AND PROFILE SHEET
32	TRAFFIC CONTROL PLAN

102	PROJECT SIGN
126	STANDARD SILT FENCE AND CONSTRUCTION ENTRANCE
304	BEDDING DETAIL - RIGID PIPE
304A	TRENCH DETAIL - WATERLINE
305	BEDDING DETAIL - FLEXIBLE PIPE
306	TRENCH DETAIL - CONSTRUCTION ADJACENT TO FIRE HYDRANT
308	COMBINATION AIR VACUUM / AIR RELIEF, CHECK VALVES, AND VAULTS
309	FIRE HYDRANT
313	VALVE BOX
313A	VALVE BOX
315	THRUST BLOCKS AND TRENCH CONDITIONS
316	HDPE TEE DETAILS
317	HDPE - DUCTILE IRON FITTINGS DETAILS 1 OF 2
318	HDPE - DUCTILE IRON FITTINGS DETAILS 2 OF 2
319	HDPE SPLICE AND FIRE HYDRANT DETAILS
320	HDPE REALIGNMENT DETAILS
321	HDPE WALL ANCHOR DETAILS
322	LOCATOR BALL PLACEMENT DETAIL
501	STANDARD METER SETTINGS FOR 5/8" X 3/4" AND 3/4" WATER SERVICE
501A	STANDARD METER SETTINGS FOR 5/8" X 3/4" AND 3/4" WATER SERVICE (AQUAPEX BLUE)
502	STANDARD METER SETTINGS FOR 1" WATER SERVICE
502A	STANDARD METER SETTINGS FOR 1" WATER SERVICE
505	METER CAN WITH RIM AND LID 5/8" X 3/4" AND 1" WATER METER CAN INSTALLATION
701	CONCRETE DRIVEWAY DETAILS 1 AND 2
713	PAVEMENT REMOVAL AND REPLACEMENT
714	PAVEMENT CUTS
725	STANDARD PAVEMENT PATCH AND REPAIR
726	ASPHALT PAVEMENT STANDARD DETAILS FOR RESIDENTIAL AND COLLECTOR STREETS
727	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS RESIDENTIAL AND COLLECTOR STREETS
729	CONCRETE PAVEMENT STANDARD DETAILS FOR ALLEYS RESIDENTIAL AND COLLECTOR STREETS (2 OF 2)
730	STANDARD ASPHALT PAVEMENT CUT AND REPAIR
731	STANDARD CONCRETE PAVEMENT CUT AND REPAIR
733	STANDARD PAVEMENT REHABILITATION FOR UTILITY CONSTRUCTION





 N W. SMITH, P.E.

7.21.2026

3/23/26

DATE _____

WATERLINE PAY ITEM NOTES (REV. 5/15/2025)

1. 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 EXISTING SYSTEM USING FITTINGS SWABBED INTERNALLY WITH 2% BLEACH SOLUTION. B. TESTING, CHLORINATION, AND FLUSHING OF NEW WATER MAIN SHALL BE PERFORMED BY CITY PERSONNEL ON MAINS WHICH ARE PHYSICALLY 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 THE EXISTING 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. 2. 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 FITTINGS. 3. CONTRACTOR TO EXCAVATE ALL UTILITY CROSSINGS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ON THE PROPOSED WATER MAIN TO AVOID UTILITY CONFLICTS. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING UTILITY CROSSINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. 4. CONTRACTOR SHALL INSURE ALL POLES WHICH ARE AFFECTED BY TRENCHING CONDITIONS ARE BRACED BY OWNERS. PAYMENT SHALL BE INCLUDED IN "RIGHT-OF-WAY CLEARING AND RESTORING". NO ADDITIONAL PAYMENT SHALL BE MADE. 5. ALL HYDRANTS, VALVES AND OTHER FITTINGS FROM ABANDONED WATER MAINS SHALL BE SALVAGED AND DELIVERED TO THE SOUTH YARD AT 2317 S JACKSON AVE. PAYMENT TO BE MADE UNDER RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE. 6. CONTRACTOR SHALL REPAIR ANY IRRIGATION SYSTEMS, ROOF DRAINS, AND FENCING DAMAGED IN THE ZONE OF CONSTRUCTION DURING THE COURSE OF CONSTRUCTION TO SATISFACTION OF THE PROPERTY OWNER. PAYMENT SHALL BE INCLUDED IN RIGHT-OF-WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE. 7. COST OF ANY TEMPORARY LIVESTOCK FENCING AND POLES SHALL BE INCLUDED IN COST OF RIGHT OF WAY CLEARING AND RESTORING. NO ADDITIONAL PAYMENT SHALL BE MADE. 8. ALL COSTS FOR COMPONENTS NECESSARY TO RESTRAIN JOINTS FOR PIPE AND FITTINGS DESIGNATED RESTRAINED JOINT ("RJ") SHALL BE INCLUDED IN UNIT PRICE BID FOR PIPE OR FITTINGS. A.DUCTILE IRON PIPE RESTRAINED JOINT SYSTEMS: US PIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, AMERICAN FLEXRING, EBAA MEGALUG, STAR STARGRIP, SMITH-BLAIR CAMLOCK, CLOW TUGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. SHOULD RJ PIPE BE SPECIFIED THROUGH UNCASED BORES, ONLY USPIPE TRFLEX, GRIFFIN SNAPLOK, MCWANE THRUSTLOCK, OR AMERICAN FLEXRING IS TO BE USED. LOCKING GASKETS NOT PERMITTED. B.POLYVINYL CHLORIDE (PVC) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. LOCKING GASKETS NOT PERMITTED; SHOULD RJ PIPE BE SPECIFIED ON BORE, CASING IS REQUIRED. C.HIGH DENSITY POLYETHYLENE (HDPE) RESTRAINED JOINT SYSTEMS: EBAA MEGALUG, STAR STARGRIP OR EQUAL SHALL BE USED ON THIS PROJECT. NO ADDITIONAL PAYMENT SHALL BE MADE. 9. ALL CUT ENDS AND WHERE SALVAGED FITTINGS HAVE BEEN REMOVED FROM ABANDONED WATER LINES LEFT IN PLACE, SHALL BE PLUGGED WITH 24-IN OF CONCRETE INSIDE THE PIPE. COST OF CONCRETE PLUGGING TO BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE. 10. TRACER WIRE AND DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED ABOVE ALL PVC AND HDPE PIPE, TERMINATING ONLY ONTO HYDRANTS JUST ABOVE GROUND LEVEL AS PER CONST SPEC 310. COST OF TRACER WIRE AND DETECTABLE MYLAR TAPE SHALL BE INCLUDED IN UNIT PRICE BID FOR PVC AND HDPE PIPE. CONST SPEC 310.1 NOW ALLOWS #12 COPPER-CLAD STEEL (CCS) WIRE, 21% CONDUCTIVITY, IN LIEU OF #8 COPPER WIRE AS TRACER WIRE ATOP PVC AND HDPE PIPE. 11. DETECTABLE MYLAR MARKING TAPE SHALL BE INSTALLED OVER DUCTILE IRON PIPE AS PER CONST SPEC 307.3 AND 307.4. COST WILL BE INCLUDED IN THE COST OF DUCTILE IRON PIPE. 12. ALL LABOR, MATERIALS, AND EQUIPMENT TO CONNECT PROPOSED WATER MAINS TO EXISTING WATER MAINS ARE INCLUDED IN THE COST OF PIPE. CONTRACTOR TO EXCAVATE ALL EXISTING WATER MAINS AHEAD OF PIPE LAYING SO THAT THE GRADES CAN BE ADJUSTED ACCORDINGLY. FAILURE TO DO SO SHALL NOT ENTITLE THE CONTRACTOR TO CLAIM EXTRA COMPENSATION FOR ADJUSTMENTS TO THE PROPOSED WATER MAIN. THE COST FOR EXCAVATING EXISTING WATER MAINS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SLEEVES. NO ADDITIONAL PAYMENT SHALL BE MADE. 13. AT THE DIRECTION OF THE ENGINEER, CONTRACTOR SHALL FURNISH A "LICENSED AND BONDED PLUMBER", WHICH SHALL INCLUDE ALL COSTS OF LABOR, TOOLS, PERMIT FEES, AND EQUIPMENT TO ROUTE THE EXISTING CUSTOMER SERVICE ON CUSTOMER PROPERTY TO THE PROPOSED CUSTOMER METER CAN. COST SHALL NOT EXCEED AN ALLOWANCE OF \$1000 PER OCCURRENCE. MATERIALS COSTS SHALL BE INCLUDED UNDER THE UNIT PRICE FOR WATER SERVICE CONNECTION AND/OR WATER SERVICE LINE EXTENSION. NO ADDITIONAL PAYMENT SHALL BE MADE. 14. CONTRACTOR IS REMINDED TO BACKFILL ALL TRENCHES EXCAVATED ACROSS ANY EXISTING OR PROPOSED DRIVING OR PARKING SURFACE WITH 1½-IN TYPE A AGGREGATE BASE, PLACED IN 8-INCH MAXIMUM LIFTS AND COMPACTED TO 98% MODIFIED PROCTOR DENSITY. COST TO BE INCLUDED IN THE UNIT PRICE FOR EXCAVATION AND BACKFILL. NO ADDITIONAL PAYMENT SHALL BE MADE. 15. WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR, AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORPORATION STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION, WITH THE EXCEPTION OF METER CANS, RIMS AND LIDS. NO ADDITIONAL PAYMENT SHALL BE MADE. METER CANS, LIDS AND RIMS SHALL BE PAID AS A SEPARATE BID ITEM. A.A SHORT SERVICE SHALL BE ANY SERVICE LINE THAT IS 25-FEET OR LESS IN LENGTH. SHORT SERVICES DO NOT INCLUDE PAVEMENT REPLACEMENT. B.LONG SERVICE SHALL BE ANY SERVICE LINE THAT IS GREATER THAN 25-FEET UP TO 80-FEET IN LENGTH. LONG SERVICES INCLUDE PAVEMENT REPLACEMENT AND/ OR COST TO BORE. C.SERVICE LINES EXCEEDING THE ABOVE PARAMETERS WILL BE COMPENSATED FOR LINEAR FOOTAGE ABOVE AND BEYOND. COMPENSATION SHALL BE PAID AS "SERVICE LINES, EXTENSION", PER LF 16. SERVICE LINES ON NON-ARTERIALS SHALL BE EITHER COPPER TUBING (TYPE K CUP ANNEALD CONFORMING TO ASTM B 88) OR PEX TUBING (VIEGA PUREFLOW PEX BLUE 5306 OR UPONOR AQUA PEX 5206 BLUE CONFORMING TO ASTM F876/F877/F2023). PEX TUBING IS NOT PERMITTED WITHIN ARTERIAL RIGHT OF WAY. WHEN CONTRACTOR ELECTS TO USE PEX TUBING: A.¾-INCH WATER SERVICE CONNECTION SHALL USE 1-INCH PEX TUBING MINIMUM 1-INCH WATER SERVICE CONNECTION SHALL USE 1¼-INCH PEX TUBING MINIMUM. 17. CONTRACTOR'S PLUMBER SHALL PROVIDE AN INFORMATIONAL BROCHURE TO THE PROPERTY OWNERS OUTLINING THE STEPS REQUIRED TO THOROUGHLY FLUSH THEIR WATERLINES AFTER CONNECTION TO THE NEW WATER MAIN. ALL COSTS TO PRODUCE AND DISTRIBUTE THE BROCHURE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. 18. THE "OWNER ALLOWANCE" CAN BE USED FOR VARIOUS WORK AND MISCELLANEOUS ITEMS NOT IDENTIFIED IN THE CONTRACT DOCUMENTS WITH THE FOLLOWING PROVISIONS:	O.THE ALLOWANCE SHALL BE USED FOR THE COST OF MATERIALS, LABOR, INSTALLATION, OVERHEAD, AND PROFIT FOR ADDITIONAL WORK AND MISCELLANEOUS ITEMS THAT ARE NOT IDENTIFIED IN THE CONSTRUCTION DOCUMENTS AND PLANS, AND NOT INCLUDED IN THE BID ITEMS OF THE CONTRACT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO: I.WATER SERVICE LINES OF UNKNOWN OR UNEXPECTED SIZE. B.THE ALLOWANCE SHALL BE USED ONLY AT THE DISCRETION OF THE CITY. ANY ALLOWANCE BALANCE REMAINING AT THE COMPLETION OF THE PROJECT WILL BE CREDITED BACK TO THE CITY ON THE FINAL APPLICATION FOR PAYMENT SUBMITTED BY THE CONTRACTOR. C.THE CONTRACTOR SHALL PROVIDE, TO THE CITY, A WRITTEN REQUEST FOR THE USE OF ANY ALLOWANCE, WITH A SCHEDULE OF VALUES, AND ALL ASSOCIATED BACKUP INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK. D.THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE ONLY AFTER RECEIVING A WRITTEN ORDER FROM THE ENGINEER AND CITY AUTHORIZING SUCH WORK. PROCEEDING WITH WORK IN THE ALLOWANCE WITHOUT A WRITTEN ORDER FROM THE CITY WILL BE AT THE CONTRACTOR'S EXPENSE. 19. WHERE PLANS IDENTIFY A 22.5-DEG OR 11.25-DEG VERTICAL OR HORIZONTAL BEND, HDPE WILL BE DEFLECTED PER MANUFACTURER'S MINIMUM ALLOWABLE BEND RADIUS. 20. WHERE PLANS IDENTIFY A CROSS, HDPE WILL USE TWO (2) TEES. NO ADDITIONAL PAYMENT SHALL BE MADE. 21. TOP OF VALVE BOX SHALL BE FLUSH WITH FINISHED GRADE. 22. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. STREETS, DRIVEWAYS AND ASSOCIATED ITEMS SHALL BE PAID FOR UNDER OTHER ITEMS OF WORK. 23. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. THE CONTRACTOR SHALL REPLACE THE SOD TO MATCH IN-KIND AND QUALITY. LIMITS OF DISTURBANCE SHALL NOT EXCEED 9-FEET CENTERED ON THE WATERLINE. ANY DISTURBANCE OUTSIDE OF THIS AREA SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. THIS PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION. NETTING SHALL BE REMOVED FROM SOD PRIOR TO PLACEMENT. 24. SPOT ELEVATIONS ON THE MAIN WATER LINE RELATIVE TO FINISHED GRADE SHALL BE PROVIDED AT EACH 100-FT INTERVAL, COMPLETE WITH STATION AND OFFSET. IN ADDITION, ALL VALVES, FITTINGS, FIRE HYDRANTS (TOP OF NUT) AND OTHER MAJOR APPURTENANT ITEMS SHALL BE SHOWN WITH THE PROPER DESCRIPTION, STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM. 25. SPOT ELEVATIONS ON WATER METER CANS, VAULTS, SHALL BE SHOWN WITH THE PROPER DESCRIPTION (METER TYPE, METER SIZE, METER NUMBER, SERVICE MATERIAL, SERVICE SIZE), STATION, OFFSET (NORTHING, EASTING) AND ELEVATION PER PLAN SURVEY CONTROL DATUM. UPON DISCOVERY OF A LEAD OR GALVANIZED SERVICE LINE, NOTIFICATION SHALL BE MADE TO WATER DISTRIBUTION AND WORK SHALL CEASE UNTIL RELEASED AT WHICH TIME ANY AND ALL SERVICE LINES LOCATED THAT ARE LEAD OR GALVANIZED ARE TO BE REPLACED WITH APPROVED MATERIALS. 26. WORK UNDER THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING HDPE WALL ANCHORS AS SHOWN ON DRAWINGS OR AS DIRECTED BY THE ENGINEER. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR EXCAVATION, BACKFILLING, OR CONCRETE BLOCKING. 27. PRESSURE TESTING AND CHLORINATION OF WATER MAINS SHALL NOT BE PERFORMED UNTIL THE CITY INSPECTOR HAS RECEIVED THE REQUIRED CONSTRUCTION AS-BUILT RECORDS. 28. BALL MARKERS SHALL BE INSTALLED ABOVE ALL FITTINGS, BLIND FLANGES, SERVICE TAPS AND EVERY 100 FEET IF THE DISTANCE BETWEEN FITTINGS IS GREATER THAN 100 FEET. THE COST OF MARKER BALLS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PIPE. MARKERS SHALL BE VIVAX WATER MARKER BALLS OR EQUAL THAT WORK WITH THE VIVAX VLOC3-PRO RECEIVER AND LOC3-10TX TRANSMITTER. 29. COST INCLUDES EBAA MEGASTOPS OR EQUAL, INSTALLED ON ALL PVC JOINTS THROUGH BORES TO PREVENT OVERBELLING. 30. AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 701 - 702, SHALL BE PAID UNDER EXCAVATION AND BACKFILL. 31. AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 703 - 704, SHALL BE PAID UNDER EXCAVATION AND BACKFILL. 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROL AND MAINTENANCE OF THE STORM WATER DRAINAGE FROM THE CONSTRUCTION SITE. STORM WATER PONDING ON THE CONSTRUCTION SITE THAT IS THE RESULT OF CONSTRUCTION WILL NOT BE ALLOWED. ALL COST ASSOCIATED WITH STORM WATER MANAGEMENT, AS WELL AS REMOVAL OF ALL SILT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, STORM SEWER PIPES AND APPURTENANCES WITHIN THE PROJECT LIMITS AT END OF PROJECT, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THIS ITEM. 33. EROSION PROTECTION SHALL BE PLACED AS FOLLOWS: A.AROUND INLETS TO PREVENT INFLOW OF ERODED MATERIAL INTO STORM SEWER SYSTEM. B.IN LOCATIONS THROUGHOUT PROJECT SITE, AS DETERMINED BY THE ENGINEER, TO PREVENT WASH OF ERODED MATERIAL ONTO ADJACENT PROPERTY. C.FOR ENTIRE DURATION OF PROJECT, WITH MAINTENANCE AND REPLACEMENTS, AS DIRECTED BY THE ENGINEER; D.WITH PERIODIC REMOVAL OF SEDIMENT IN ACORDANCE WITH STORMWATER MANAGEMENT PLAN. ALL COSTS FOR ITEMS A-E ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM. 34. PRICE SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION. 35. PAVEMENT REMOVAL AND REPLACEMENT: THIS PAY ITEM SUPERSEDES CITY OF TULSA STANDARD SPECIFICATION SECTION 329.8, WITH RESPECT TO SAW CUTTING AND DOWELS AND INCLUDES THE FOLLOWING (THESE ITEMS SHALL NOT BE PAID SEPARATELY): SAW CUTTING, DOWELS, DISPOSAL OF BROKEN PAVEMENT, TEMPORARY SURFACES, ASSOCIATED EXCAVATION, PREPARATION OF SUBGRADE, FORMS OF REINFORCING, REMOVAL OR REPLACEMENT OF GRAVEL, ADDITIONAL SAW CUTTING OR REPLACEMENT OF PAVEMENT DAMAGED BY THE CONTRACTOR, JOIN SEALER, TACK COATS OR EDGE SEALING.
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SUMMARY OF WATERLINE QUANTITIES - OPTION 1:

SUMMARY OF WATERLINE QUANTITIES					
SUMMARY OF WATERLINE QUANTITIES OPTION 1 - BASE BID OPEN CUT					
ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
1	ODOT 220	SWPP DOCUMENTATION AND MANAGEMENT	32,33,34	LSUM	1
2	ODOT 880J	CONSTRUCTION TRAFFIC CONTROL	KH-1	CD	180
3	COT 302	PROJECT SIGN		LSUM	1
4	COT 301	RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE	4,5,6,7,22	SY	3,931
5	COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	5,196
6	COT 303	MOBILIZATION		EA	1
7	ODOT 642	CONSTRUCTION STAKING (LEVEL II)		EA	1
8	COT 307	6 INCH DIP, CL 51 POLYETHYLENE WRAPPED, (RJ)	1,2,3,8,9,11,27,28	LF	185
9	COT 315(A)	3/4 INCH WATER METER CAN, LID & RIM		EA	146
10	COT 315(B)	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	13,17	EA	14
11	COT 312(A)	6 INCH D.I. SLEEVE (RJ)	2,8,12	EA	10
12	COT 312(B)	6 INCH X 6 INCH D.I. TEE (RJ)	2,8	EA	1
13	COT 317(A)	8-WAY FIRE HYDRANT, IN PLACE	2,8	EA	14
14	COT 317(B)	12 INCH FIRE HYDRANT EXTENSION		EA	14
15	COT 318(A)	VALVE BOX	21	EA	41
16	COT 318(B)	VALVE BOX EXTENSION	21	VF	38
17	COT 325	SOD REPLACEMENT, LIKE KIND	23	SV	1,074
18	COT 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPHALT)	31,35	SY	891
19	COT 329(B)	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE)	30, 35	SY	1,974
20	COT 329(C)	PAVEMENT, REMOVAL AND REPLACEMENT (CURB & GUTTER)	35	LF	140
21	COT 329(D)	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE DRIVEWAY)	30,35	SY	32
22	COT 333(A)	2 INCH WATERLINE ABANDONMENT	5,9	LF	5,931
23	COT 333(B)	6 INCH WATERLINE ABANDONMENT	5,9	LF	784
24	COT 334	CONSTRUCTION AS-BUILT	24,25,27	EA	1
25	COT 335	CONTRACTOR QUALITY CONTROL		LSUM	1
26	SPECIAL	OWNER ALLOWANCE	18	ALLOW (USD)	10,000
SUMMARY OF WATERLINE QUANTITIES OPTION 1A - DIP OPEN CUT					
ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
27	COT 307(A)	6 INCH DIP, CL 51 POLYETHYLENE WRAPPED, (RJ)	1,2,3,8,9,11,27,28	LF	2,453
28	COT 307(B)	6 INCH DIP, CL 51 POLYETHYLENE WRAPPED	1,2,3,9,11,27,28	LF	5,204
29	COT 309	8 INCH HDPE, AWWA C906, PE4710, DR-11 (DIPS) (BORED)	1,2,3,8,9,10,19,27,28	LF	118
30	COT 312(A)	6 INCH D.I. 11-1/4 DEGREE BEND (RJ)	2,8	EA	15
31	COT 312(B)	6 INCH D.I. 22-1/2 DEGREE BEND (RJ)	2,8	EA	6
32	COT 312(C)	6 INCH D.I. 45 DEGREE BEND (RJ)	2,8	EA	91
33	COT 312(D)	6 INCH X 6 INCH D.I. TEE (RJ)	2,8	EA	26
34	COT 312(E)	8 INCH X 6 INCH D.I. REDUCER (RJ)		EA	2
35	COT 312(F)	6 INCH HDPE MI ADAPTOR (DIPS) (RJ)		EA	2
36	COT 315(A)	3/4 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	54
37	COT 315(B)	3/4 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	41
38	COT 315(C)	1 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	22
39	COT 315(D)	1 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	27
40	COT 315(E)	1 1/2 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	1
41	COT 315(F)	3/4 INCH WATER SERVICE CONNECTION (LONG) (HDPE)	13,15,16,17,KH-3	EA	1
42	COT 315(G)	SERVICE LINE EXTENSION	15	LF	39
43	COT 317(A)	8 INCH GATE VALVE (RJ)	8	EA	41
44	COT 317(B)	8 INCH GATE VALVE (RJ)		EA	7
45	COT 328	6-INCH BORE		LF	257
46	SPECIAL	8 INCH HDPE WALL ANCHOR (DIPS)(RJ), COMPLETE IN PLACE	26	EA	2
SUMMARY OF WATERLINE QUANTITIES OPTION 1B - PVC OPEN CUT					
ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
47	COT 309(A)	6 INCH PVC, AWWA C900, CLASS 200, DR-14, (RJ)	1,2,3,8,9,10,27,28,29	LF	2,453
48	COT 309(B)	6 INCH PVC, AWWA C900, CLASS 200, DR-14	1,2,3,9,10,27,28,29	LF	5,204
49	COT 309	8 INCH HDPE, AWWA C906, PE4710, DR-11 (DIPS) (BORED)	1,2,3,8,9,10,19,27,28	LF	118
50	COT 312(A)	6 INCH D.I. 11-1/4 DEGREE BEND (RJ)	2,8	EA	15
51	COT 312(B)	6 INCH D.I. 22-1/2 DEGREE BEND (RJ)	2,8	EA	6
52	COT 312(C)	6 INCH D.I. 45 DEGREE BEND (RJ)	2,8	EA	91
53	COT 312(D)	6 INCH X 6 INCH D.I. TEE (RJ)	2,8	EA	26
54	COT 312(E)	8 INCH X 6 INCH D.I. REDUCER (RJ)		EA	2
55	COT 312(F)	6 INCH HDPE MI ADAPTOR (DIPS) (RJ)		EA	2
56	COT 315(A)	3/4 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	54
57	COT 315(B)	3/4 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	41
58	COT 315(C)	1 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	22
59	COT 315(D)	1 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	27
60	COT 315(E)	1 1/2 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	1
61	COT 315(F)	3/4 INCH WATER SERVICE CONNECTION (LONG) (HDPE)	13,15,16,17,KH-3	EA	1
62	COT 315(G)	SERVICE LINE EXTENSION	15	LF	39
63	COT 317(A)	8 INCH GATE VALVE (RJ)	8	EA	41
64	COT 317(B)	8 INCH GATE VALVE (RJ)		EA	7
65	COT 328	6-INCH BORE		LF	257
66	SPECIAL	8 INCH HDPE WALL ANCHOR (DIPS)(RJ), COMPLETE IN PLACE	26	EA	2
SUMMARY OF WATERLINE QUANTITIES OPTION 1C - HDPE OPEN CUT					
ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
67	COT 309A	8 INCH HDPE, AWWA C906, PE4710, DR-11 (DIPS)	1,2,3,8,9,10,19,27,28	LF	7,657
68	COT 309	8 INCH HDPE, AWWA C906, PE4710, DR-11 (DIPS) (BORED)	1,2,3,8,9,10,19,27,28	LF	118
69	COT 312(A)	8 INCH HDPE MI ADAPTOR (DIPS) (RJ)		EA	75
70	COT 312(B)	8 INCH HDPE 11-1/4 DEGREE BEND (DIPS)		EA	15
71	COT 312(C)	8 INCH HDPE 22-1/2 DEGREE BEND (DIPS)		EA	6
72	COT 312(D)	8 INCH HDPE 45 DEGREE BEND (DIPS)		EA	91
73	COT 312(E)	6 INCH X 6 INCH D.I. TEE (RJ)	2,8	EA	2
74	COT 312(F)	8 INCH X 8 INCH HDPE TEE (DIPS)	20	EA	24
75	COT 312(G)	8 INCH X 6 INCH D.I. REDUCER (RJ)		EA	20
76	COT 315(A)	3/4 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	54
77	COT 315(B)	3/4 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	41
78	COT 315(C)	1 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	22
79	COT 315(D)	1 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	27
80	COT 315(E)	1 1/2 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	1
81	COT 315(F)	3/4 INCH WATER SERVICE CONNECTION (LONG) (HDPE)	13,15,16,17,KH-3	EA	1
82	COT 315(G)	SERVICE LINE EXTENSION	15	LF	39
83	COT 317(A)	6 INCH GATE VALVE (RJ)	8	EA	4
84	COT 317(B)	8 INCH GATE VALVE (RJ)	8	EA	7
85	COT 317(C)	8 INCH GATE VALVE (RJ)		EA	7
86	COT 328	8-INCH BORE		LF	257
87	SPECIAL	8 INCH HDPE WALL ANCHOR (DIPS)(RJ), COMPLETE IN PLACE	26	EA	7

SUMMARY OF WATERLINE QUANTITIES - OPTION 2:

SUMMARY OF WATERLINE QUANTITIES					
SUMMARY OF WATERLINE QUANTITIES OPTION 2 - PIPE BURSTING					
ITEM NO.	SPEC. NO.	ITEM DESCRIPTION	PAY ITEM NOTES	UNIT	QUANTITY
1	ODOT 220	SWPP DOCUMENTATION AND MANAGEMENT	32,33,34	LSUM	1
2	ODOT 880J	CONSTRUCTION TRAFFIC CONTROL	KH-1	CD	180
3	COT 302	PROJECT SIGN		LSUM	1
4	COT 301	RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE	4,5,6,7,22	SY	448
5	COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	CY	448
6	COT 303	MOBILIZATION		EA	1
7	ODOT 642	CONSTRUCTION STAKING (LEVEL II)		EA	1
8	COT 307	6 INCH DIP, CL 51 POLYETHYLENE WRAPPED, (RJ)	1,2,3,8,9,11,27,28	LF	185
9	COT 309A	8 INCH HDPE, AWWA C906, PE4710, DR-11 (DIPS), PIPE BURSTING	1,2,27,28,KH-2	LF	6,715
10	COT 312(A)	6 INCH D.I. SLEEVE (RJ)	2,8,12	EA	10
11	COT 312(C)	8 INCH HDPE MI ADAPTOR (DIPS) (RJ)		EA	75
12	COT 312(D)	8 INCH HDPE 11-1/4 DEGREE BEND (DIPS)		EA	15
13	COT 312(E)	8 INCH HDPE 22-1/2 DEGREE BEND (DIPS)		EA	9
14	COT 312(F)	8 INCH HDPE 45 DEGREE BEND (DIPS)		EA	3
15	COT 312(G)	6 INCH X 6 INCH D.I. TEE (RJ)	2,8	EA	3
16	COT 312(H)	8 INCH X 8 INCH HDPE TEE (DIPS)	20	EA	24
17	COT 312(I)	8 INCH X 6 INCH D.I. REDUCER (RJ)		EA	20
18	COT 315(A)	3/4 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	54
19	COT 315(B)	3/4 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	42
20	COT 315(C)	1 INCH WATER SERVICE CONNECTION (SHORT)	13,15,16,17,KH-3	EA	22
21	COT 315(D)	1 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	27
22	COT 315(E)	1 1/2 INCH WATER SERVICE CONNECTION (LONG)	13,15,16,17,KH-3	EA	1
23	COT 315(F)	SERVICE LINE EXTENSION	15	LF	39
24	COT 315(G)	3/4 INCH WATER METER CAN, LID & RIM		EA	146
25	COT 315(H)	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	13,17	EA	14
26	COT 317(A)	3-WAY FIRE HYDRANT, IN PLACE		EA	14
27	COT 317(B)	12 INCH FIRE HYDRANT EXTENSION		EA	14
28	COT 317(C)	6 INCH GATE VALVE (RJ)	8	EA	4
29	COT 317(D)	8 INCH GATE VALVE (RJ)	8	EA	37
30	COT 317(E)	8 INCH GATE VALVE (RJ); VAULT		EA	41
31	COT 318(A)	VALVE BOX	21	EA	6
32	COT 318(B)	VALVE BOX EXTENSION	21	VF	38
33	COT 325	SO2 REPLACEMENT, LIKE KIND	23	SY	412
34	COT 329(A)	PAVEMENT, REMOVAL AND REPLACEMENT (ASPHALT)	31,35	SY	18
35	COT 329(B)	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE)	30, 35	SY	18
36	COT 329(C)	PAVEMENT, REMOVAL AND REPLACEMENT (CURB & GUTTER)	35	LF	45
37	COT 334	CONSTRUCTION AS-BUILT	24,25,27	1	1
38	COT 335	CONTRACTOR QUALITY CONTROL		LSUM	1
39	SPECIAL	8 INCH HDPE WALL ANCHOR (DIPS) (RJ), COMPLETE IN PLACE	26	EA	7
40	SPECIAL	OWNER ALLOWANCE	18	ALLOW (USD)	10,000

PLOT DATE: 12/17/2025 9:23 AM | DRAWING NAME: CONSTRUCTION NOTES.DWG

WATERLINE CONSTRUCTION NOTES (07/2025)

1. THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF TULSA ENGINEERING SERVICES DEPARTMENT.
3. EXISTING SERVICE CONNECTIONS ARE TO BE KEPT IN SERVICE UNTIL CONNECTIONS TO NEW MAIN ARE MADE. ALL SERVICE LINE RECONNECTIONS SHALL BE MADE BY THE CONTRACTOR. SERVICE RECONNECTIONS SHALL BE INSTALLED AS PER CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS.
4. MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON THE PLANS.
5. CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF THE SAME TYPE AND VARIETY OR AS NOTED ON PLANS.
6. CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
7. CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER.
8. WATER OPERATIONS SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16" AND LARGER). CONTRACTOR SHALL OPERATE ALL VALVES ON DISTRIBUTION MAINS (SMALLER THAN 16") WITH THE COORDINATION OF FIELD ENGINEERING AND WATER OPERATIONS AND IN THE PRESENCE OF A FIELD ENGINEERING INSPECTOR.

A. ATTEMPTS WILL BE MADE WITH ASSISTANCE FROM THE CONTRACTOR TO NOTIFY ALL AFFECTED CUSTOMERS 48 HOURS IN ADVANCE, PARTICULARLY IF COMMERCIAL OR INDUSTRIAL CUSTOMERS ARE INVOLVED. PRIOR TO SHUTDOWN, FIELD ENGINEERING WILL NOTIFY WATER OPERATIONS AT 918-596-9488, GIVING AN ESTIMATED DOWNTIME. WATER OPERATIONS WILL NOTIFY THE FIRE DEPARTMENT OF ALL FIRE HYDRANTS OUT OF SERVICE AND WHEN THEY ARE BACK IN SERVICE, BY STREET ADDRESS OR INTERSECTION.

B. WHERE COMMERCIAL, INDUSTRIAL, OR CRITICAL CUSTOMERS ARE AFFECTED, AND FOR ALL LINES 16-INCH AND LARGER IN SIZE, FIELD ENGINEERING WILL REQUEST WATER OPERATIONS TO SHUT DOWN THE MAIN. THERE WILL BE A MINIMUM OF 48-HOUR NOTICE TO WATER OPERATIONS.
9. CONTRACTOR SHALL PROVIDE AT LEAST 48 HOUR NOTICE TO ALL RESIDENTS OR BUSINESSES AFFECTED BEFORE TURNING OFF ANY WATER. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING DOOR HANGERS ON AFFECTED HOMES AND BUSINESSES.
10. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA ONE-CALL SYSTEM, INC. NOTICE OF ANY EXCAVATION NO LATER THAN 48 HOURS OR SOONER THAN 10 DAYS PRIOR TO COMMENCEMENT OF WORK (EXCLUDING SATURDAYS, SUNDAYS, LEGAL HOLIDAYS). PHONE: 1-800-522-6543.
11. LOCAL AND THROUGH TRAFFIC SHALL BE MAINTAINED THROUGH PROJECT AT ALL TIMES. OPEN CUT STREET CROSSINGS REQUIRE AN APPROVED TRAFFIC CONTROL PLAN WITH TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH CURRENT MUTCD REQUIREMENTS.
12. ANY DAMAGE CAUSED BY THE CONTRACTOR TO ADJACENT TRAFFIC SIGNAL INFRASTRUCTURE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE TRAFFIC ENGINEER.
13. PRIOR TO PAVEMENT SAWING AND EXCAVATION NEAR SIGNALIZED INTERSECTION, CONTRACTOR SHALL CONTACT PUBLIC WORKS AND TRAFFIC OPERATIONS (918-596-9766) FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.
14. CONSTRUCTION FOR ALL ENGINEERING SERVICE FACILITIES SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF TITLE 252, DEPARTMENT OF ENVIRONMENTAL QUALITY, CHAPTER 626, PUBLIC WATER SUPPLY CONSTRUCTION STANDARDS, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ).
15. ALL EXCAVATED MATERIAL NOT REQUIRED IN OTHER AREAS OF 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 SHALL BE REQUIRED TO OBTAIN AN EARTH CHANGE PERMIT IF ANY EXCESS MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS OF TULSA.
16. ANY CHANGES FROM THE APPROVED PLANS SHALL BE SUBMITTED TO THE CITY OF TULSA FOR WRITTEN APPROVAL PRIOR TO INSTALLATION.



REVISION	BY	DATE

CONSTRUCTION NOTES

PROJECT NO. TMUA-W 25-03 02

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:	REW	3/26	
1"=20'	FIELD MNGR.:	REW	3/26	
VERTICAL	RECOMMENDED:	REW	3/26	
1"=5'	DESIGN MANAGER			

DRAWING:	
ATLAS PAGE NO: 95	SHEET 3 OF 32

CITY OF TULSA PROJECT NO. TMUA-W 25-03

REVISION	BY	DATE

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

Kimley»Horn

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Avenue, Suite 930, Tulsa,
OK 74119
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Date 06/30/2027
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PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
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PROFILE SCALES:	PROJ MNGR.:			 <u>DESIGN MANAGER</u>
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL				
1"=5'				

DRAWING: WATER & WATERMETER SUMMARY.DWG	
ATLAS PAGE NO: 95	SHEET 4 OF 32

PLOT DATE: 3/19/2026 9:50 AM, DRAWING NAME: WATER & WATERMETER SUMMARY.DWG

CITY OF TULSA PROJECT NO. TMUA-W 25-03

PLOT DATE: 3/19/2026 9:51 AM, DRAWING NAME: WATER & WATERMETER SUMMARY.DWG

SUMMARY OF VALVES & HYDRANTS							
WATERLINE	STATION	NORTHING	EASTING	TYPE	QUANTITY	OFFSET	ELEVATION
A	1+03.00	412611.7300	2569281.9300	6" GATE VALVE	1	0	698.357
A	2+69.05	412456.2759	2569255.6851	2" ARV	1	0	699.740
A	2+83.48	412461.9066	2569235.3534	3-WAY FIRE HYDRANT	1	9.986 LT	700.307
A	2+86.48'	412465.0499'	2569245.3030'	6" GATE VALVE	1	0.00	699.147'
A	4+74.97	412653.5271	2569242.4467	6" GATE VALVE	1	0	682.951
A	6+04.30	412782.2710	2569228.5044	3-WAY FIRE HYDRANT	1	13.942 LT	683.860
A	6+07.30'	412785.4707'	2569242.4015'	6" GATE VALVE	1	0	682.638
A	7+73.11	412951.2713	2569239.9652	6" GATE VALVE	1	0	679.910
A	10+10.77	413178.7778	2569200.7045	6" GATE VALVE	1	0	669.729
A	10+13.84	413178.6247	2569192.2814	3-WAY FIRE HYDRANT	1	7.845 LT	678.065
A	14+47.58	413479.4918	2568901.7366	6" GATE VALVE	1	0	676.641
A	14+50.59	413482.4989	2568898.7366	6" GATE VALVE	1	3.00' RT	678.460
A	14+50.59	413476.4989	2568898.7225	6" GATE VALVE	1	3.00' LT	678.580
A1	75+03.02	412650.4717	2569239.4805	6" GATE VALVE	1	0	683.103
B	15+04.50	413177.7674	2569205.9887	6" GATE VALVE	1	0	669.802
B	18+72.26	413207.5770	2569565.2642	3-WAY FIRE HYDRANT	1	10.000 RT	696.732
B	18+75.26'	413217.6195'	2569568.1252'	6" GATE VALVE	1	0	696.090'
B	22+61.03'	413223.1553'	2569953.8560'	6" GATE VALVE	1	0	708.851'
B	22+85.57'	413223.5253'	2569978.3890'	6" GATE VALVE	1	0	706.139'
B	27+07.31'	413231.5123'	2570400.0515'	6" GATE VALVE	1	0	710.576'
B	27+10.22	413219.5706	2570403.1897	3-WAY FIRE HYDRANT	1	11.999 RT	711.551
B	29+91.29	412270.9305	2570677.2916	2" ARV	1	0	711.496
B	29+94.29	413270.9725	2570680.2913	6" GATE VALVE	1	0	711.545
C	30+03.00	412948.3195	2569243.0133	6" GATE VALVE	1	0	679.987
C	33+10.95	412865.5138	2569517.3540	3-WAY FIRE HYDRANT	1	6.076 RT	686.473
C	33+13.96'	412870.9602'	2569521.3908'	6" GATE VALVE	1	0	685.995'
C	37+57.37'	412882.1038'	2569959.0477'	6" GATE VALVE	1	0	696.417'
C	37+82.13	412882.4083	2569983.8070	6" GATE VALVE	1	0	696.856
C	41+41.84'	412862.1911'	2570333.4901'	6" GATE VALVE	1	0	712.633'
C	41+44.76	412857.228'	2570336.4899	3-WAY FIRE HYDRANT	1	5.007 RT	714.837
C	44+82.45'	412901.9969	2570658.7199	2" ARV	1	0	729.928
C	45+09.97	412901.9960	2570686.2396	6" GATE VALVE	1	0	730.458
C1	77+04.07'	412850.2266'	2569989.3406'	6" GATE VALVE	1	0	696.980'
C1	77+10.45	412860.2423	2569990.1692	3-WAY FIRE HYDRANT	1	7.765 RT	696.777
C1	77+36.66'	412879.3623'	2569980.8525'	6" GATE VALVE	1	0	696.852'
D	50+03.11'	412403.0737'	2570001.7474'	6" GATE VALVE	1	0	693.583'
D	50+05.99	412397.4028	2570012.1597	3-WAY FIRE HYDRANT	1	11.5 RT	693.780
D	50+18.76'	412409.5459'	2570014.6827'	6" GATE VALVE	1	0	693.634'
D	54+14.79	412482.2408	2570405.1791	3-WAY FIRE HYDRANT	1	15.482 RT	717.622
D	54+17.96'	412497.6822'	2570401.8159'	6" GATE VALVE	1	0	714.627'
D	56+97.31	412614.4034	2570652.2142	6" GATE VALVE	1	0	725.404
D	58+70.36	412477.3471	2570683.0949	3-WAY FIRE HYDRANT	1	13.000 RT	733.242
D	58+71.84'	412476.0744'	2570696.1167'	6" GATE VALVE	1	0	732.627'
D	58+82.58	412471.7762	2570704.2596	2" ARV	1	0	732.657
D	60+94.01	412620.4576	2570652.2140	6" GATE VALVE	1	0	725.486
E	65+12.06	412626.4596	2570649.2141	6" GATE VALVE	1	0	725.429
E	66+47.29	412743.7894	2570677.2195	3-WAY FIRE HYDRANT	1	15.000 LT	727.042
E	66+50.29'	412747.0688'	2570692.1609'	6" GATE VALVE	1	0	725.603'
E	67+91.67'	412888.4301'	2570689.5224'	2" ARV	1	0	730.314'
E	68+08.24	412904.9954	2570689.2132	6" GATE VALVE	1	0	730.436
E	70+59.71	413156.2417	2570673.2671	3-WAY FIRE HYDRANT	1	11.999 LT	720.395
E	70+62.86'	413159.5848'	2570685.2148'	6" GATE VALVE	1	0	719.724'
E	71+77.31	413274.0173	2570683.4697	6" GATE VALVE	1	0	711.515
E	74+61.30	413557.9832	2570679.2662	2" ARV	1	0	726.728'
E	74+64.03	413560.7070	2570679.2249	6" GATE VALVE	1	0	726.737
F	80+03.11'	413226.5892'	2569975.3427'	6" GATE VALVE	1	0	706.188'
F	83+02.63'	413526.0778'	2569970.8537'	2" ARV	1	0	728.035'
G	85+03.01'	412885.0768'	2569956.0109'	6" GATE VALVE	1	0	696.352'
G	88+22.06'	413204.0928'	2569951.1432'	2" ARV	1	0	708.412'
G	88+38.05'	413220.0753'	2569950.9021'	6" GATE VALVE	1	0	708.830'

RESTRAINED JOINT LENGTH								
EBAA (DIP)	NOMINAL SIZE	HORIZONTAL BEND			VERTICAL BEND			DEAD ENDS
		45°	22.5°	11.25°	45° BEND TOP / BOTTOM	22.5° BEND TOP / BOTTOM	11.25° BEND TOP / BOTTOM	
	IN	FT	FT	FT	FT	FT	FT	FT
	6	5	2	1	9 / 5	5 / 2	3 / 1	22

RESTRAINED JOINT LENGTH			
EBAA (DIP)	TEE CONNECTION TYPE	TEES	
		LRN = 0	LRN = 10
	IN	FT	FT
	6 X 6	34	1



REVISION	BY	DATE

WATER SUMMARY (2 OF 2)

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	

PROFILE SCALES:
PROJ MNGR.:
HORIZONTAL:
1"=20'
LEAD ENGR.:
FIELD MNGR.:
VERTICAL:
1"=5'

Signature: [Handwritten Signature]
DESIGN MANAGER

DRAWING: WATER & WATERMETER SUMMARY.DWG

ATLAS PAGE NO: 95

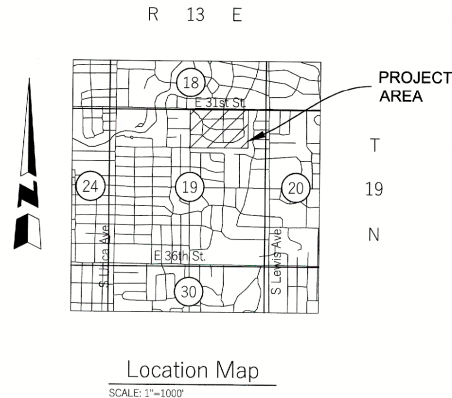
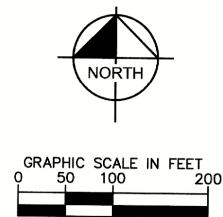
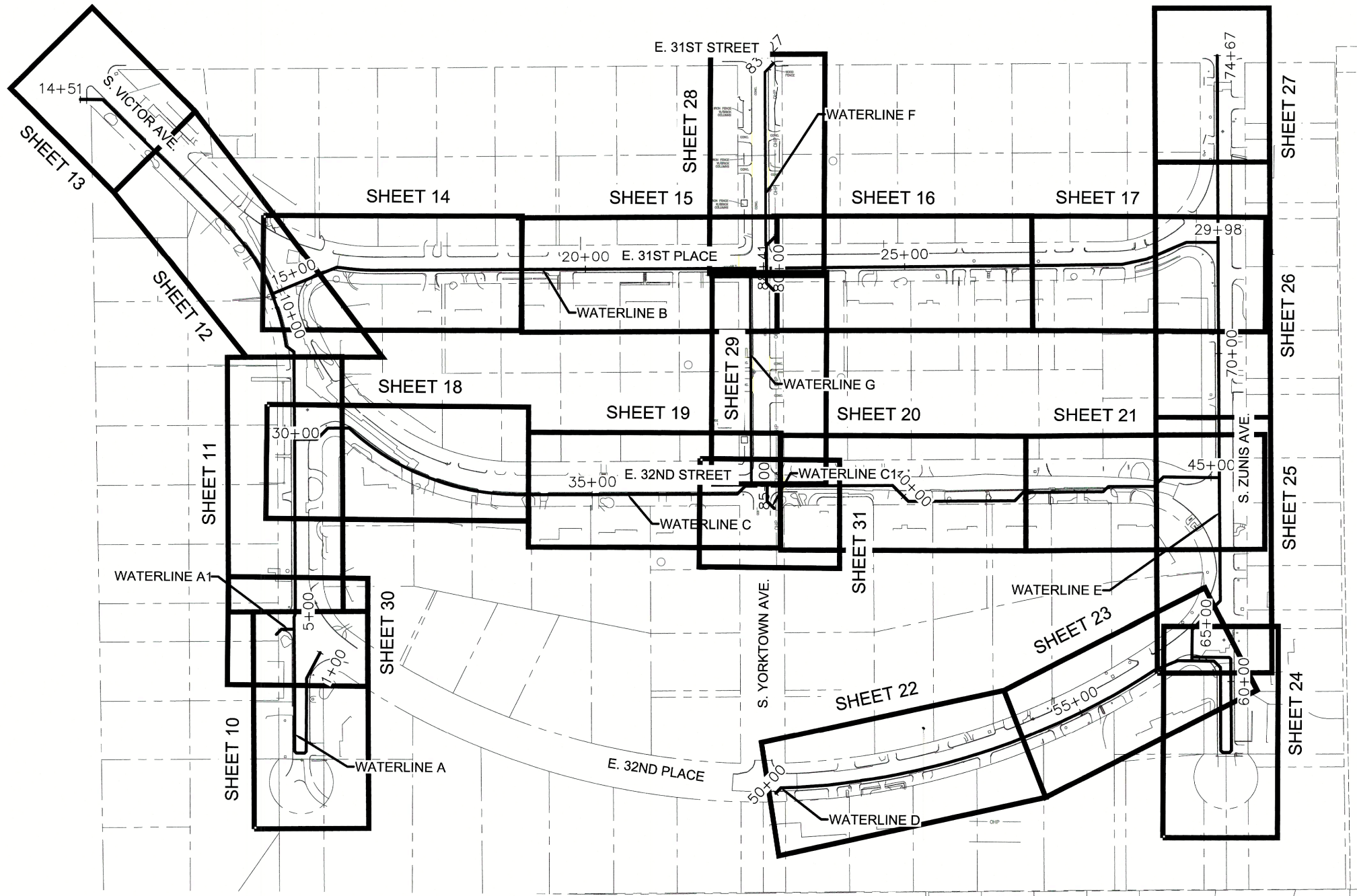
SHEET 5 OF 32

CITY OF TULSA PROJECT NO. TMUA-W 25-03

PLOT DATE: 3/19/2025 9:51 AM, DRAWING NAME: WATER & WATERMETER SUMMARY.DWG

				WATER METER LISTING				REPLACEMENT INFORMATION				FOR CONTRACTORS USE SERVICE LINE MATERIAL	
SHEET NO.	NO.	SERVICE ADDRESS	CUSTOMER NAME	NORTH COORDINATE	EAST COORDINATE	SIZE (IN)	MAKE	SHORT	LONG	METER LOCATION	METER CAN SIZE	PROPERTY SIDE	CITY OF TULSA SIDE
10	1	3245 S VICTOR AVE	ALLEN, WALTER SAMUEL & DORIAN C	412433.9935	2569275.267	1 1/2	NE			006SNPL & SPK & 006SNPL			
10	2	3245 S VICTOR AVE	ALLEN, WALTER SAMUEL & DORIAN C	412437.7609	2569271.851	5/8"	NE	x		006SNPL & SPK & 006SNPL			
10	3	3252 S VICTOR AVE	BOONE, RICHARD III & CONNIE S	412374.4877	2569285.971	3/4"	NE		x	15WEHLON31ST			
10	4	3252 S VICTOR AVE	BOONE, RICHARD III & CONNIE S	412386.3337	2569273.011	3/4"	NE		x	SLL & SLL			
10	5	3248 S VICTOR AVE	NEW, JAMES R TRUSTEE OF JAMES S NEW TRUST	412438.3767	2569234.554	3/4"	NE		x	EHL & & EHL			
10	6	3238 S VICTOR AVE	WOOLVERTON, DONALD G	412487.0945	2569238.066	5/8"	NE	x		14 NSHL 2 W CURB & 14 NSHL 2 W CURB			
10	7	1720 E 32ND PL	HURLEY, GERALD DALE & ALISSA ANN	412569.0685	2569238.067	5/8"	NE	x		10nsHl vctor 2wc			
11	8	3222 S VICTOR AVE	HUGHES, T J III & SALLY L	412715.2384	2569236.238	1"	NE	x		9NSHL2WC & & 9N SHL 2W CURB			
11	9	3222 S VICTOR AVE	HUGHES, T J III & SALLY L	412723.5337	2569234.415	1"	NE	x		9NSHL2WC & & 9N SHL 2W CURB			
11	10	1805 E 32ND PL	BOONE, TYLER & KEIRIN	412754.8458	2569273.705	1"	NE		x	10NDRIVE ON VICTOR & & 10NDRIVE ON VICTOR			
11	11	3214 S VICTOR AVE	BROWN, CHARLES E IV & LINEFI SHI	412845.6903	2569229.2	5/8"	NE	x		8 s dr &			
11	12	3206 S VICTOR AVE	JOHNSON, LAWRENCE REVEL & STEPHANIE PULS COTR STEPHANIE PULS JOHNSON TRUST	412884.4533	2569231.638	3/4"	NE	x		12n walk 3wc & &			
11	13	3208 S VICTOR AVE	JOHNSON, LAWRENCE REVEL & STEPHANIE PULS COTR STEPHANIE PULS JOHNSON TRUST	412933.3113	2569231.843	1"	NE	x		12n walk 3wc & &			
11	14	3148 S VICTOR AVE	BEATTIE, EDWARD T & DANA KARLIN	412970.0821	2569230.339	3/4"	NE	x		SLL & & SLL			
12	15	3140 S VICTOR AVE	COBB, JANE ANN	413111.1901	2569223.129	1"	NE	x		028NSHL 5 WC & SPK & 028NSHL 5 WC			
12	16	3140 S VICTOR AVE	COBB, JANE ANN	413124.9332	2569217.391	5/8"	NE	x		028NSHL 5 WC & SPK & 028NSHL 5 WC			
12	17	3132 S VICTOR AVE	GAINEY, BRUCE & DONNA	413242.685	2569160.07	3/4"	NE	x		CHL & &			
12	18	3131 S VICTOR AVE	KING, BETHANY A	413293.8501	2569177.527	5/8"	NE	x		014EWHL & & 014EWHL			
12	19	3110 S VICTOR AVE	WOOD, DONALD WILLACE & TAMMY KAY	413356.5239	2569050.79	3/4"	NE	x		002NSHL & & 002NSHL			
12	20	3111 S VICTOR AVE	BECK, DONALD K & PAULA M	413392.6038	2569074.683	1"	NE	x		20S/SBL & 4E/VICTOR & & 20S/SBL & 4E/VICTOR			
12	21	3103 S VICTOR AVE	VOLF, ZACHARY & BRITANY TRUST	413414.7075	2569053.911	3/4"	NE	x		15WEHLON31ST & &			
14	22	1807 E 31ST PL	HARMON, MARY ANN & CHARLES K CO TRUSTEES MARY ANN HARMON TRUST	413242.1421	2569315.74	5/8"	NE	x		16 WEHL 8 N CURB & & 16 WEHL 8 N CURB			
14	23	1804 E 31ST PL	ADWON, PHILLIP MITCHELL & MELINDA K	413199.8226	2569353.96	5/8"	NE	x		6 WEHL & & 6 WEHL			
14	24	1815 E 31ST PL	FOWLER, MICHELE M	413244.2809	2569394.843	1"	NE		x				
14	25	1815 E 31ST PL	FOWLER, MICHELE M	413244.333	2569399.125	5/8"	NE	x		008EWHL & & 008EWHL			
14	26	1812 E 31ST PL	LEE, BRANDON CHRISTOPHER REV TRUST	413201.269	2569405.734	5/8"	NE	x		015EWHL & SPK & 015EWHL			
14	27	1812 E 31ST PL	LEE, BRANDON CHRISTOPHER REV TRUST	413202.1919	2569423.011	1"	NE	x		030WEHL & 030WEHL & 030WEHL			
14	28	1821 E 31ST PL	FORMAN, MICHAEL S & MARGARET ANN	413242.5511	2569480.693	3/4"	NE		x	004EWHL & & 004EWHL			
14	29	1824 E 31ST PL	MURRAY, ANNETTE L & KEVIN J	413199.3383	2569531.013	5/8"	NE	x		11W DR 12S ST & & 11W DRV 12S ST			
14	30	1831 E 31ST PL	YARDY, TIMOTHY J	413245.5282	2569586.024	1"	NE	x		030EWHL & & 030EWHL			
15	31	1831 E 31ST PL	YARDY, TIMOTHY J	413247.0581	2569624.323	3/4"	NE	x		030EWHL & & 030EWHL			
15	32	1830 E 31ST PL	DEISENROTH, MARY ELIZABETH TRUSTEE MARY ELIZABETH DEISENROTH REV TRUST	413206.843	2569629.148	5/8"	NE	x		Bwdr 2n rock wall & &			
15	33	1830 E 31ST PL	NUNNELEY, ANGELA M & BRYAN D TRUSTEES ANGELA M NUNNELEY TRUST	413205.1919	2569698.59	5/8"	NE	x		20 WEHL 7 S CURB & & 20 WEHL 7 S CURB			
15	34	1835 E 31ST PL	MARTIN WILLIAM W & BONNIE J	413252.7454	2569703.535	3/4"	NE	x		020WEHL & 020WEHL & UN02WEHL			
15	35	1844 E 31ST PL	BROACH, DAVID E TRUSTEE DAVID E BROACH TRUST	413206.8277	2569749.56	3/4"	NE	x		whl 8sc & &			
15	36	1844 E 31ST PL	BROACH, DAVID E TRUSTEE DAVID E BROACH TRUST	413206.9134	2569751.808	3/4"	NE	x		whl 8sc & &			
15	37	1843 E 31ST PL	DANIEL, SAM P I & MILDRED OTEY	413248.6188	2569772.213	3/4"	NE	x		10e of w dr & &			
15	38	1852 E 31ST PL	SAUNDERS, ROY G & E JOYCE	413207.1476	2569684.573	3/4"	NE	x		013EWHL & & 013EWHL			
15	39	1851 E 31ST PL	SHOFNER, RENITA R	413252.0369	2569857.008	5/8"	NE	x		WHL & & WHL			
15	40	1851 E 31ST PL	SHOFNER, RENITA R	413251.0405	2569865.024	1"	NE	x		008WWHL & SPK & 008WWHL			
16	41	2116 E 31ST PL S	VLAN, DIDER	413210.8864	2570137.976	5/8"	NE	x		020EHL 7 S CURB & SPK & 020EHL 7 S CURB			
16	42	2111 E 31ST PL S	CRAIG, BRYAN A & MELISSA RUBIN TRUSTEES BRYAN A & MELISSA RUBIN CRAIG TRUSTS	413255.8306	2570150.718	5/8"	NE	x		EHL 7nc & &			
16	43	2111 E 31ST PL S	CRAIG, BRYAN A & MELISSA RUBIN TRUSTEES BRYAN A & MELISSA RUBIN CRAIG TRUSTS	413254.9163	2570154.273	3/4"	NE	x		EHL 7nc & &			
16	44	2116 E 31ST PL S	VLAN, DIDER	413216.1297	2570190.599	1"	NE	x		020EHL 7 S CURB & SPK & 020EHL 7 S CURB			
16	45	2119 E 31ST PL S	LOVE, JOCELYN J AND WALLACE B CO TRUSTEES JOCELYN B LOVE TRUST	413253.9634	2570232.276	1"	NE	x		038WEHL & & 038WEHL			
16	46	2122 E 31ST PL	THOMSON, DAVID M & REBECCA L	413215.4571	2570240.775	3/4"	NE	x		008WEHL & & 008WEHL			
16	47	2119 E 31ST PL S	LOVE, JOCELYN J AND WALLACE B CO TRUSTEES JOCELYN B LOVE TRUST	413253.8019	2570252.044	5/8"	NE	x		038WEHL & & 038WEHL			
16	48	2127 E 31ST PL	HANNAH, KEVIN W	413255.2987	2570293.043	3/4"	NE	x		WHL & & WHL			
16	49	2128 E 31ST PL	WALTERS, ANTOINETTE M TRUSTEE ANTOINETTE M WALTERS TR	413217.0903	2570306.498	5/8"	NE	x		1wvhl 9 s sewer & &			
16	50	2135 E 31ST PL	DOLAN, JEFFERSON PAUL & RACHEL RHODES	413256.1313	2570368.583	5/8"	NE	x		EHL & & EHL			
16	51	2134 E 31ST PL S	INHOFE, JAMES M II	413217.9922	2570371.06	1"	NE	x		19wehl 10sc & &			
16	52	2134 E 31ST PL S	INHOFE, JAMES M II	413217.5973	2570362.947	3/4"	NE	x		19wehl 10sc & &			
17	53	2135 E 31ST PL	DOLAN, JEFFERSON PAUL & RACHEL RHODES	413258.7037	2570408.328	1"	NE	x		EHL & & EHL			
17	54	2140 E 31ST PL	MARICLE, JENNIFERA & BRADLEY J	413216.6276	2570449.581	1"	NE	x		002WEHL 9 C & SPK & 002WEHL 9 C			
17	55	2141 E 31ST PL S	KENNEALLY, TIMOTHY D & KRISTEN S	413260.4268	2570483.718	1"	NE	x		003WEHL 4 ST & SPK & 003WEHL 4 ST			
17	56	2140 E 31ST PL	MARICLE, JENNIFERA & BRADLEY J	413215.6168	2570502.111	5/8"	NE	x		WHL & & WHL			
17	57	2141 E 31ST PL S	KENNEALLY, TIMOTHY D & KRISTEN S	413259.7437	2570527.627	3/4"	NE	x		003WEHL 4 ST & SPK & 003WEHL 4 ST			
17	58	2154 E 31ST PL	HUGHES, GREGORY L & TARA A	413225.4999	2570574.111	5/8"	NE	x		021EDRV & 021EDRV & 021EDRV			
17	59	2151 E 31ST PL	DEISENROTH, PATRICIA L TRUSTEE PATRICIA DEISENROTH TRUST	413267.1611	2570574.247	3/4"	NE	x		010EWHL & & 010EWHL			
18	60	3211 S VICTOR AVE	RAGLAND, DAVID	412963.7999	2569534.686	5/8"	NE	x		008E WHL 012S CURB WM & & BE WHL 12S CURB WM			
18	61	3211 S VICTOR AVE	RAGLAND, DAVID	412963.454	2569516.537	3/4"	NE	x		008E WHL 012S CURB WM & & BE WHL 12S CURB WM			
18	62	1815 E 32ND ST	POYAS, JOHN LOUIS II & CHERIE JO	412962.1665	2569392.2	5/8"	NE	x		4 W WALK 7 NC & &			
18	63	1820 E 32ND ST	FOUCH, JEANNE MARIE & RANDY A CO-TRUSTEES JEANNE MARIE FOUCH REV TRUST	412969.1329	2569500.803	3/4"	NE	x		15WEHL			
18	64	1820 E 32ND ST	FOUCH, JEANNE MARIE & RANDY A CO-TRUSTEES JEANNE MARIE FOUCH REV TRUST	412968.0705	2569513.117	1"	NE	x		15WEHL			
18	65	1821 E 32ND ST	INHOFE, JAMES M II & JAMES PATRICK FLYNN REV TRUST	412963.364	2569531.946	5/8"	NE	x		020WEHL			
18	66	1830 E 32ND ST	WYNN, WILLIAM B IV & NEELY GAWVEY	412861.2652	2569556.611	3/4"	NE	x		7 e dr 9sc & &			
18	67	1830 E 32ND ST	WYNN, WILLIAM B IV & NEELY GAWVEY	412861.983	2569592.206	1"	NE	x		7 e dr 9sc & &			
18	68	1829 E 32ND ST	MANIS, GREGORY A	412900.9788	2569608.071	3/4"	NE	x		14 WEHL 5 S CURB & & 14 WEHL 5 N CURB			
19	69	1832 E 32ND ST	KLABAZA, KAREN & RICHARD FAMILY TRUST	412955.2898	2569699.568	5/8"	NE	x		048WEHL CHL & & 048WEHL CHL			
19	70	1833 E 32ND ST	MILLER FAMILY TRUST C/O TR CO OK	412955.2737	2569738.685	1"	NE	x		1nc dr 11 s			
19	71	1833 E 32ND ST	MILLER FAMILY TRUST C/O TR CO OK	412902.5448	2569687.075	5/8"	NE	x		3 w fowebbed 8nc & &			
19	72	1840 E 32ND ST	SCHIFFMACHER, JOHN T & VYETTE K	412855.7359	2569747.319	3/4"	NE	x		22 E WHL & & 22 E WHL			
19	73	1840 E 32ND ST	SCHIFFMACHER, JOHN T & VYETTE K	412860.7031	2569783.927	1"	NE	x		22 E WHL & & 22 E WHL			
19	74	1841 E 32ND ST	GUTHRIE, DAVID BARCLAY & JESUDA JAWN	412801.7635	2569760.575	3/4"	NE	x		021E DR & & 021E DR			
19	75	1849 E 32ND ST	SELBY, JOHN KENNETH TRUSTEE JOHN KENNEDY SELBY TRUST C/O BURKE & NICKEL	412902.7467	2569851.659	1"	NE	x		7WWWHL-WM & SPK METER &			
19	76	1849 E 32ND ST	SELBY, JOHN KENNETH TRUSTEE JOHN KENNEDY SELBY TRUST C/O BURKE & NICKEL	412902.7881	2569854.855	5/8"	NE	x		7WWWHL-WM & SPK METER &			
19	77	1850 E 32ND ST	BOWEN, WILLIAM E & EDWARD O MONDOR	412983.7541	2569942.152	1"	NE	x		10' S OF QUEEN ST, NWIC OF PROP & & 10' S OF QUEEN ST, NWIC OF PROP			
19	78	1850 E 32ND ST	BOWEN, WILLIAM E & EDWARD O MONDOR	412983.7542	2569944.444	1"	NE	x		10' S OF QUEEN ST, NWIC OF PROP & & 10' S OF QUEEN ST, NWIC OF PROP			
20	79	2101 E 32ND ST S	LAFOURTE, JOHN MORSE & JENNIFER R	412903.384	2570052.188	5/8"	NE	x		01EWHL & & 01EWHL			
20	80	2115 E 32ND ST S	KRAMER NORMA M & ROBERT L CO TRUSTEES NORMA M KRAMER REV TRUST	412911.3462	2570148.672	5/8"	NE	x		10EWHL & & 10EWHL			
20	81	2118 E 32ND ST	PETERS, JOHN A & ERIN N	412855.2666	2570205.629	5/8"	NE	x		chl & &			
20	82	2118 E 32ND ST	PETERS, JOHN A & ERIN N	412855.5088	2570220.548	1"	NE	x		008WEHL & SPK & 008WEHL			
20	83	2122 E 32ND ST	DOWNING, ROBERT E & PENNY L	412856.081	2570266.638	5/8"	NE	x		4nc 8sc & &			
20	84	2121 E 32ND ST S	YEARLY, EDWIN CII & ROSALIE TTEE EDWIN C YEARLY II REV TRUST	412807.4311	2570268.304	5/8"	NE	x		028WEHL EM & SPK & 028WEHL EM			
20	85	2121 E 32ND ST S	YEARLY, EDWIN CII & ROSALIE TTEE EDWIN C YEARLY II REV TRUST	412910.8309	2570271.78	5/8"	NE	x		028WEHL EM & SPK & 028WEHL EM			
20	86	2122 E 32ND ST	DOWNING, ROBERT E & PENNY L	412856.9335	2570316.224	1"	NE	x		007EHL 3 C & SPK & 007EHL 3 C			
20	87	2137 E 32ND ST	HART, DANIEL R & KIMBERLY A	412									

PLOT DATE: 12/17/2025 9:24 AM, DRAWING NAME: TMUA-PROJECT LAYOUT MAP.DWG



LEGEND

- BM #902 BENCHMARK
- 664.29 663.12 EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



REVISION	BY	DATE

OVERALL KEY MAP

PROJECT NO. TMUA-W 25-03, C2
2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027
(918) 209-3191

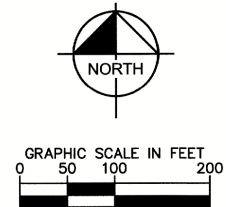
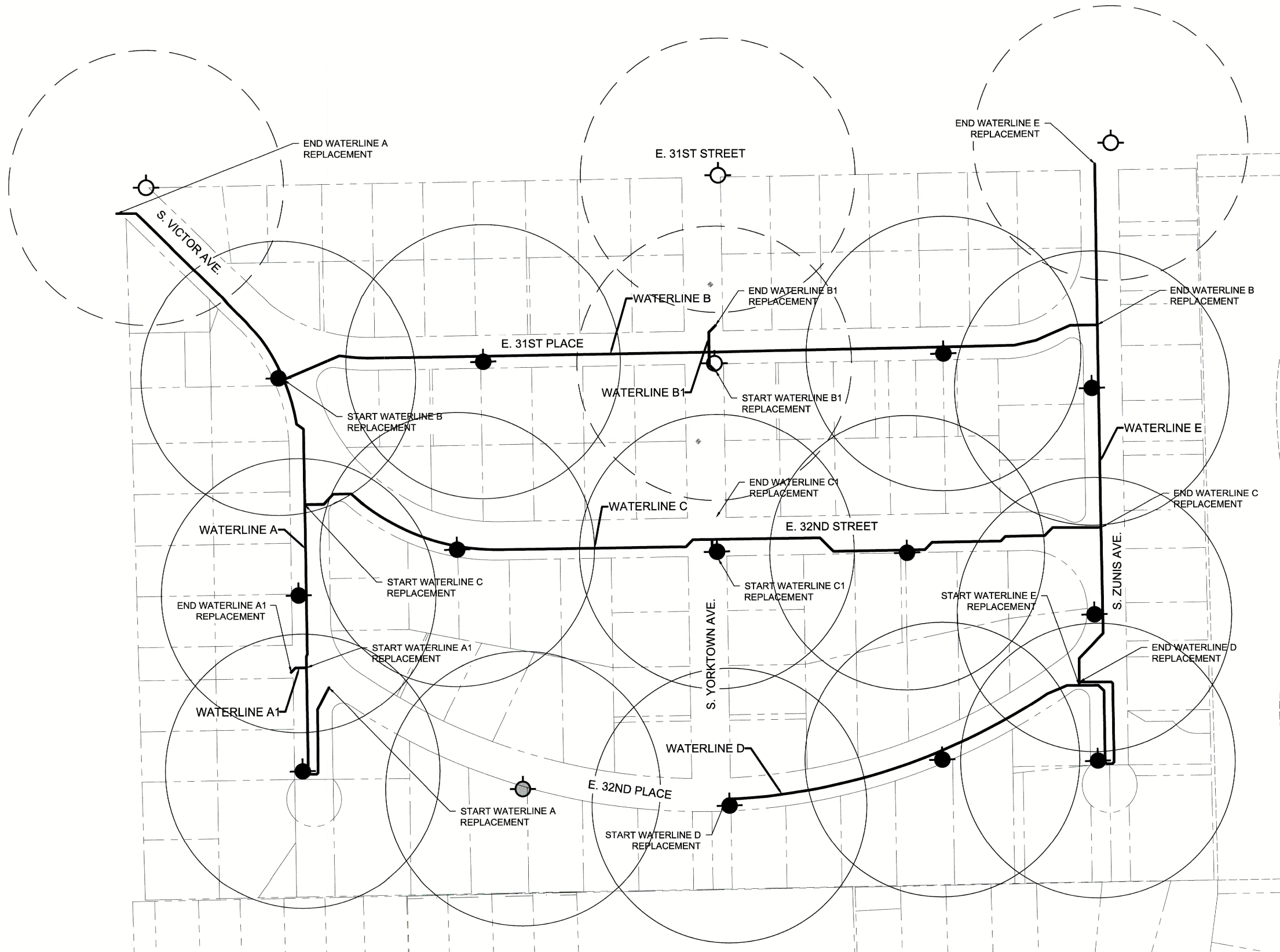
PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:	NEW 3/26		
1"=20'	FIELD MNGR.:	NEW 3/26		
VERTICAL:	RECOMMENDED			
1"=5'	DESIGN MANAGER			

DRAWING:	TMUA-PROJECT LAYOUT MAP.DWG
ATLAS PAGE NO:	95
	SHEET 7 OF 32



CITY OF TULSA PROJECT NO. TMUA-W 25-03

PLOT DATE: 3/19/2026 9:51 AM, DRAWING NAME: FH SPACING MAP.DWG



LEGEND

- EXISTING FIRE HYDRANT TO REMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE HYDRANT NOT ON PROPOSED WATERLINES
- EXISTING FIRE HYDRANT (500' DIA)
- PROPOSED FIRE HYDRANT (500' DIA)

NOTES

CONTRACTOR TO INSTALL FIRE HYDRANTS ON EXISTING LINES AS INDICATED ON THIS SHEET, 1 REQUIRED. FIRE HYDRANTS INSTALLED ON EXISTING LINES SHALL INCLUDE THE FOLLOWING QUANTITIES (PER FIRE HYDRANT).

4 S.Y. RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE
3 C.Y. EXCAVATION AND BACKFILL, UNCLASSIFIED
1 - 6" X 6" DUCTILE IRON TEE (RJ)
2 - 6" DUCTILE IRON SLEEVES (RJ)
1 - 3-WAY FIRE HYDRANT, IN PLACE (RJ)
40 L.F. 6" DIP RESTRAINED JOINT PIPE
4 S.Y. SOLID SLAB SOD



REVISION	BY	DATE

FIRE HYDRANT LOCATION MAP

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027
(918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL				
1"=5'				

DRAWING: FH SPACING MAP.DWG
ATLAS PAGE NO: 95
SHEET 8 OF 32

CITY OF TULSA PROJECT NO. TMUA-W 25-03

ADS STATION #59
5/8" REBAR-1 1/2" ALUMINUM CAP SET IN CONCRETE
ELEV=681.50
N=413639.97
E=2568781.88

E. 31ST STREET

Benchmark 37
PK NAIL
ELEV=681.05
N=413465.1762
E=2568971.9253

Benchmark 36
3/8" IRON PIN
ELEV=684.10
N=413224.8415
E=2569246.4912

Benchmark 35
CHISELED "X"
ELEV=703.91
N=413213.0295
E=2569626.3976

Benchmark 201
PK NAIL
ELEV=721.60
N=413347.0598
E=2569978.9360

Benchmark 33
CHISELED "X"
ELEV=715.20
N=413225.6084
E=2570570.4779

Benchmark 22
PK NAIL
ELEV=723.10
N=413444.9964
E=2570688.9296

Benchmark -23
CHISELED "X"
ELEV=722.55
N=413202.2341
E=2570679.1206

Benchmark 31
PK NAIL
ELEV=684.49
N=412995.4583
E=2569259.4881

Benchmark 30
CHISELED "X" ELEV=689.32
N=412911.9728
E=2569478.9752

Benchmark 202
PK NAIL
+ ELEV=705.64 —
N=413060.8627
E=2569956.6720

Benchmark 29
PK-NAIL —
ELEV=701.27
N=412886.2383
E=2570003.1497

Benchmark 2
5/8" IRON PIN
ELEV=717.83
N=412856.9869
E=2570324.1559

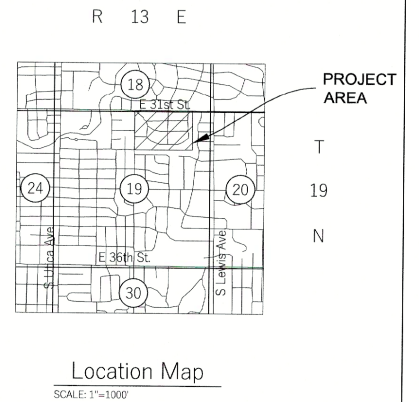
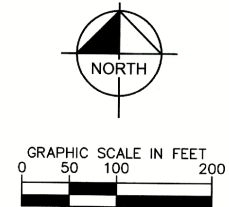
Benchmark 24
CHISELED "X"
ELEV=735.22
N=412931.3268
E=2570683.4064

Benchmark 32
CHISELED SQUARE
ELEV=690.22
N=412691.7277
E=2569275.9928

Benchmark 32A
PK NAIL
ELEV=705.67
N=412445.4238
E=2569256.5172

Benchmark 2
PK NAIL
ELEV=697.47
N=412417.4038
E=2569998.7449

Benchmark 26
PK NAIL
ELEV=732.24
N=412647.6634
E=2570698.9031



SURVEY DATA

1. HORIZONTAL CONTROL:

- A. HORIZONTAL DATUM IS NAD-83(93) H.A.R.N. ADJUSTMENT - OKLAHOMA STATE PLANE COORDINATE SYSTEM (NORTH ZONE - 3501). THE PROVIDED GRID COORDINATES CAN BE CONVERTED TO GROUND COORDINATES BY DIVIDING THE COORDINATES BY AN AVERAGE COMBINATION FACTOR OF 0.999921741.
- B. LINEAR UNIT IS U.S. SURVEY FOOT.
- C. ACCURACY - 3rd ORDER OR BETTER.

2. BEARINGS:

- A. THE BEARINGS SHOWN ARE GRID BEARINGS DERIVED FROM THE OKLAHOMA STATE PLANE COORDINATE SYSTEM (NORTH ZONE) AND ARE NOT ASTRONOMICAL.
B. THE ANGLE OF VARIANCE BETWEEN GRID NORTH AND THE ASTRONOMIC TRUE NORTH IS DEPICTED DIAGRAMMATICALLY.

3. VERTICAL CONTROL:

- A. VERTICAL DATUM IS NAVD 1988.
B. ACCURACY - 3rd ORDER OR BETTER.

HORIZONTAL CONTROLS FOR THIS SURVEY ARE FROM THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE 3501, NAD-83(93). PRIMARY CONTROLS WERE ESTABLISHED BY AERIAL DATA SERVICE, INC.. DISTANCE SHOWN ARE GRID DISTANCES. SECONDARY HORIZONTAL CONTROLS WERE ESTABLISHED BY GPS EQUIPMENT.

THE VERTICAL CONTROL FOR THIS SURVEY IS NAV-88. VERTICAL CONTROL WAS ESTABLISHED BY DIGITAL LEVELING EQUIPMENT USING THE DOUBLE LOOP BENCH LEVEL RUN METHOD.

SECTION CORNER REFERENCES HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF LIBRARIES.

SECTION CORNER LAND TIES USED TO PROVIDE HORIZONTAL AND VERTICAL CONTROL:

ADS-STATION #58
N: 408239.916
E: 2569104.412
ELEV: 674.132 (NAVD 1988)

ADS-STATION #59
N: 413639.973
E: 2568781.877
ELEV: 681.502 (NAVD 1988)

REVISION	BY	DATE

SURVEY CONTROL SHEET

PROJECT NO. TMUA-W 25-03 *C2*

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

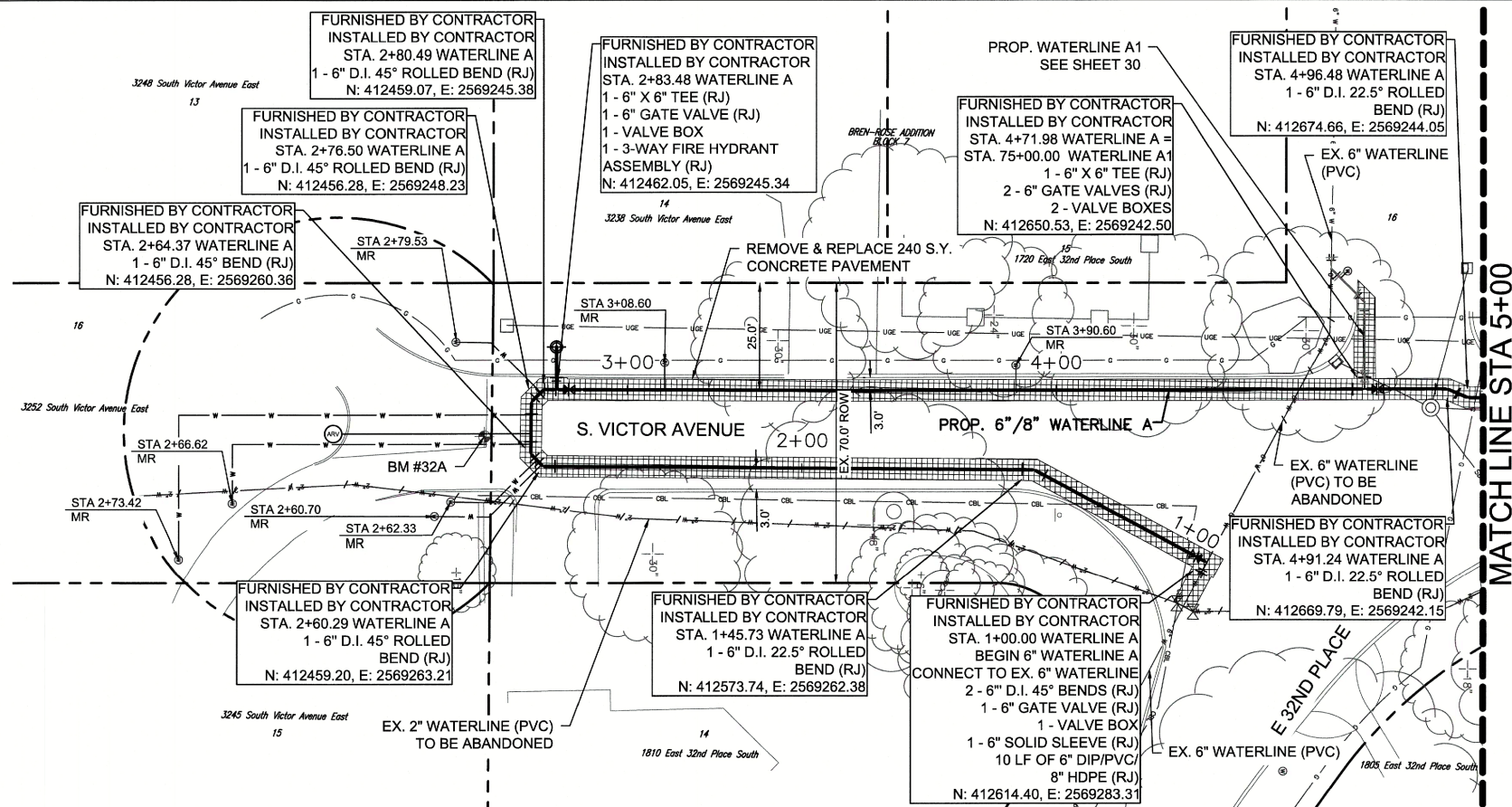
PLANS AND ESTIMATES PREPARED BY:

Kimley»Horn

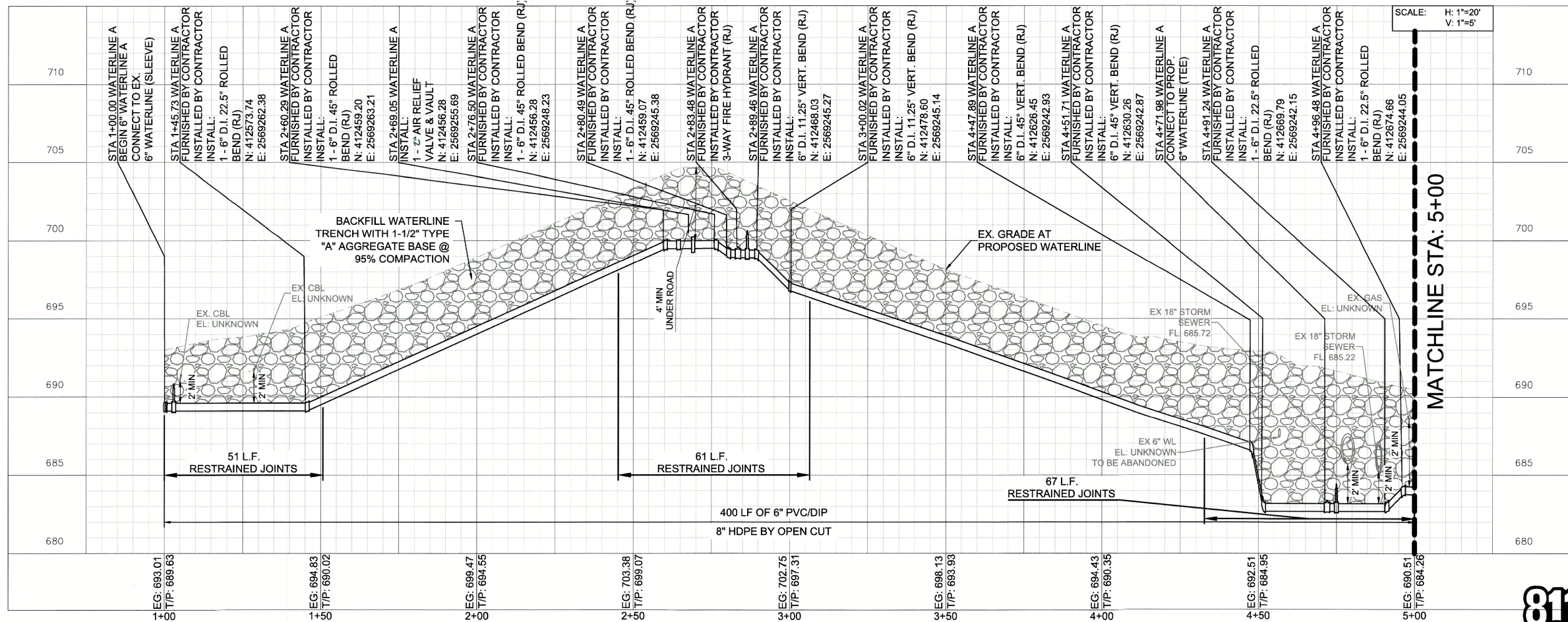
1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
OK License No. 2740 Exp.
Date 06/30/2027
(918) 209-3191

PLAN SCALE:		DRAWN	OCB	5/2/25	APPROVED:
1"=20'		DESIGNED	RWS	5/2/25	
		SURVEY	DB	5/2/25	
PROFILE SCALES:		PROJ MNGR.:			
HORIZONTAL:		LEAD ENGR.:			
1"=20'		FIELD MNGR.:			
VERTICAL		RECOMMENDED:			
1"=5'		DESIGN MANAGER			
DRAWING: SURVEY CONTROL SHEET DWG					
ATLAS PAGE NO: 95			SHEET 9 OF 32		

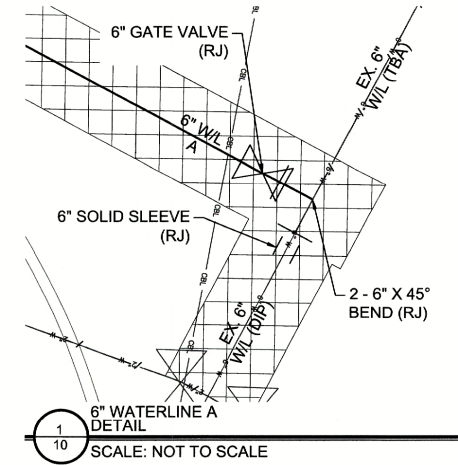




WATERLINE A PLAN

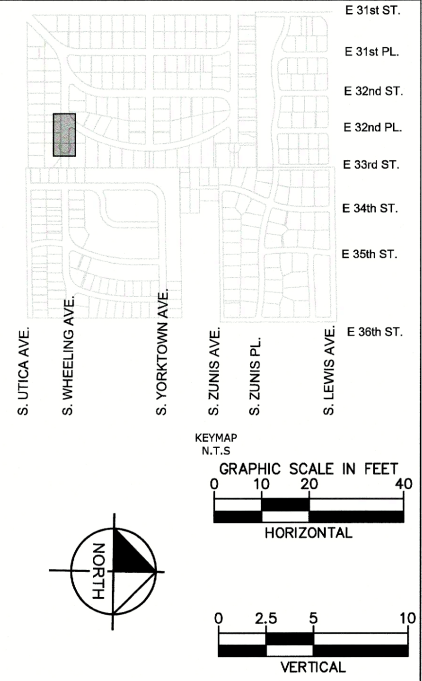


WATERLINE A PROFILE



SERVICE CONNECTIONS

NO.	SERVICE TYPE
2	3/4\"
3	3/4\"
1	1\"
1	1 1/2\"



LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE A STA 1+00 TO 5+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

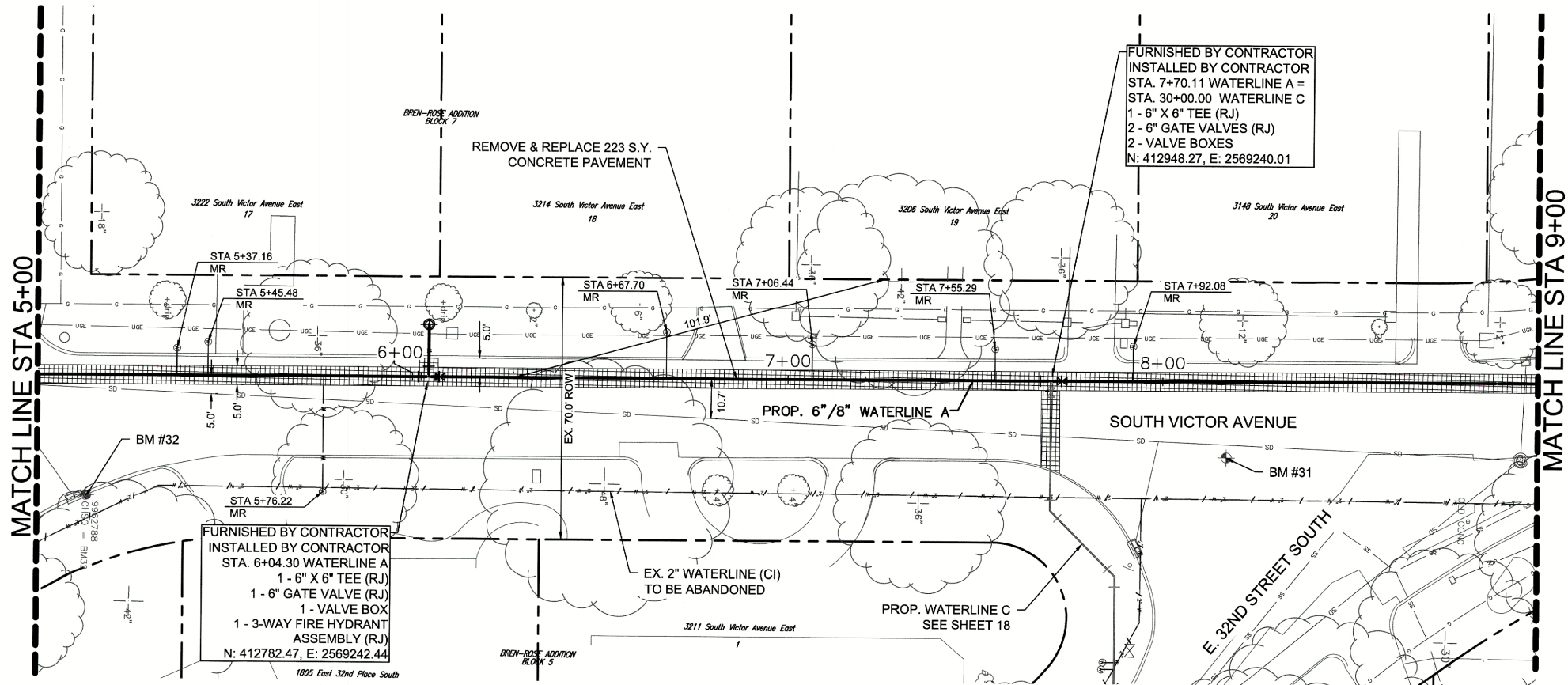
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL				
1"=5'				

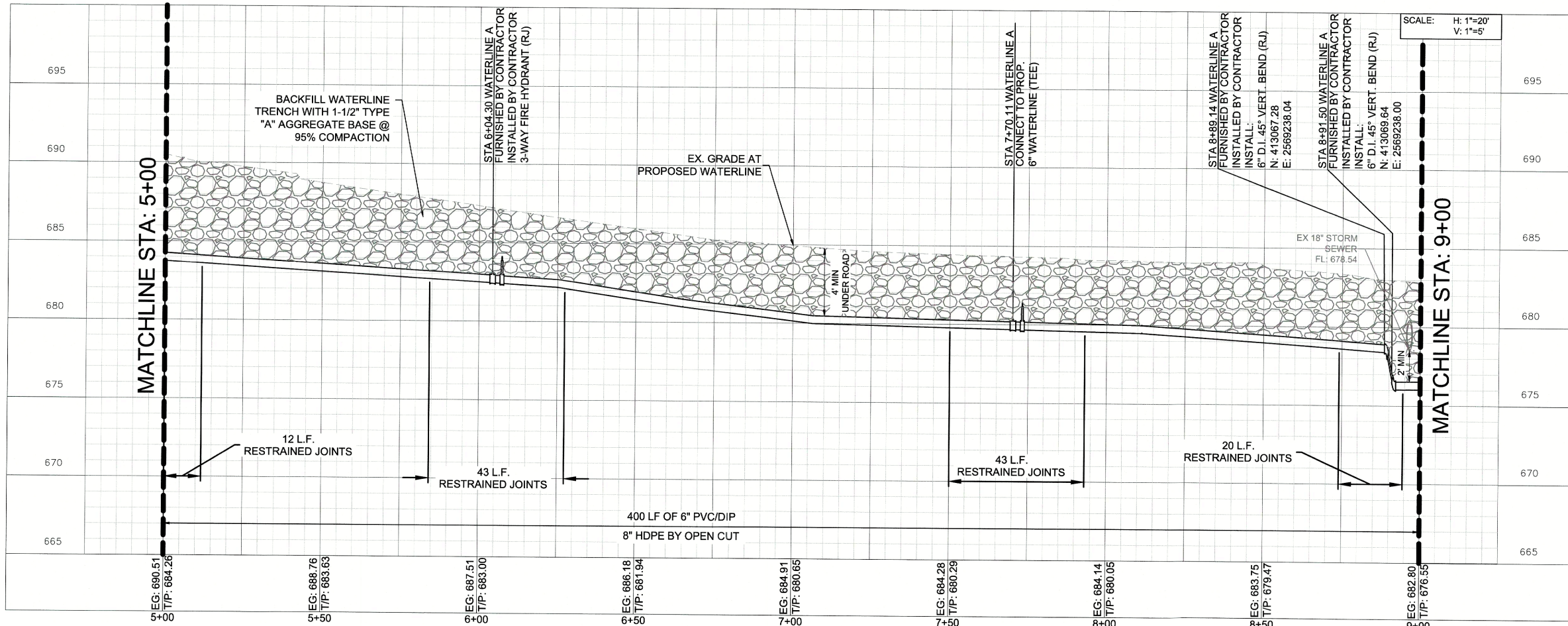
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ATLAS PAGE NO:	95
SHEET	10 OF 32



PLOT DATE: 3/19/2026 9:52 AM, DRAWING NAME: C-WATERLINE A.DWG



WATERLINE A PLAN



WATERLINE A PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
0	3/4" WATER SERVICE CONNECTION (LONG)
3	3/4" WATER SERVICE CONNECTION (SHORT)
3	1" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE A STA 5+00 TO 9+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

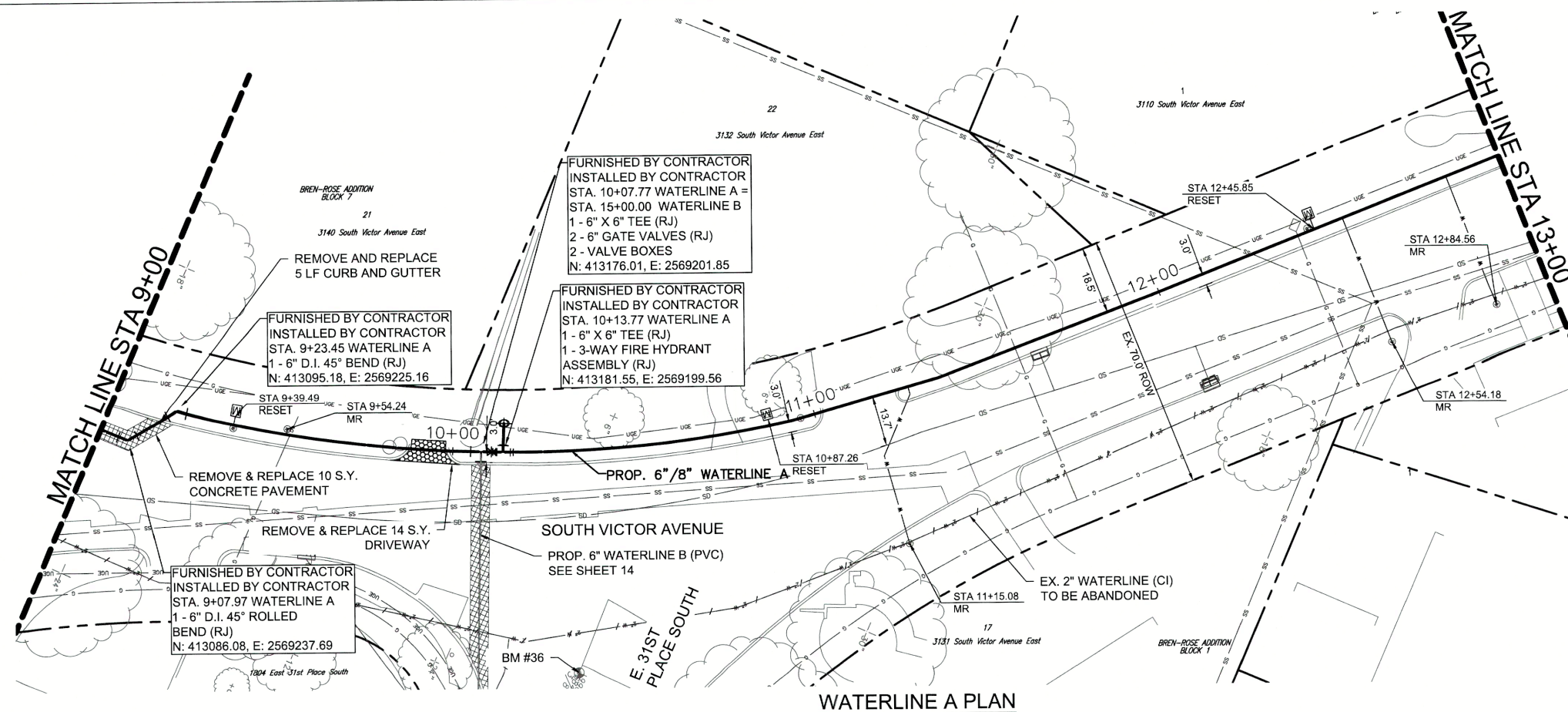
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:	CEW 7/26		
1"=20'	FIELD MNGR.:	BAW 9/16		
VERTICAL:				
1"=5'				

DRAWING: C-WATERLINE A.DWG
ATLAS PAGE NO: 95
SHEET 11 OF 32

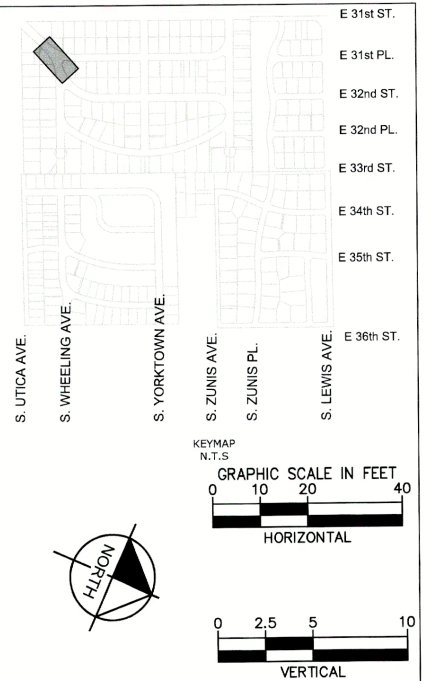


CITY OF TULSA PROJECT NO. TMUA-W 25-03

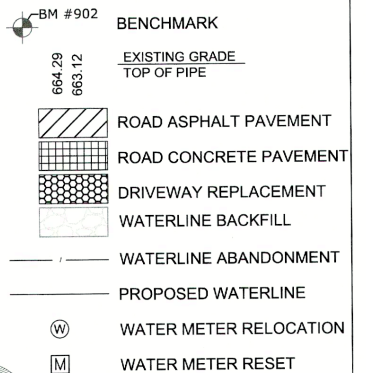


SERVICE CONNECTIONS

NO.	SERVICE TYPE
2	¾" WATER SERVICE CONNECTION (LONG)
3	¾" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)
1	1" WATER SERVICE CONNECTION (SHORT)
3	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER



LEGEND



REVISION	BY	DATE

WATERLINE A STA 9+00 TO 12+50

PROJECT NO. TMUA-W 25-03 *02*

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

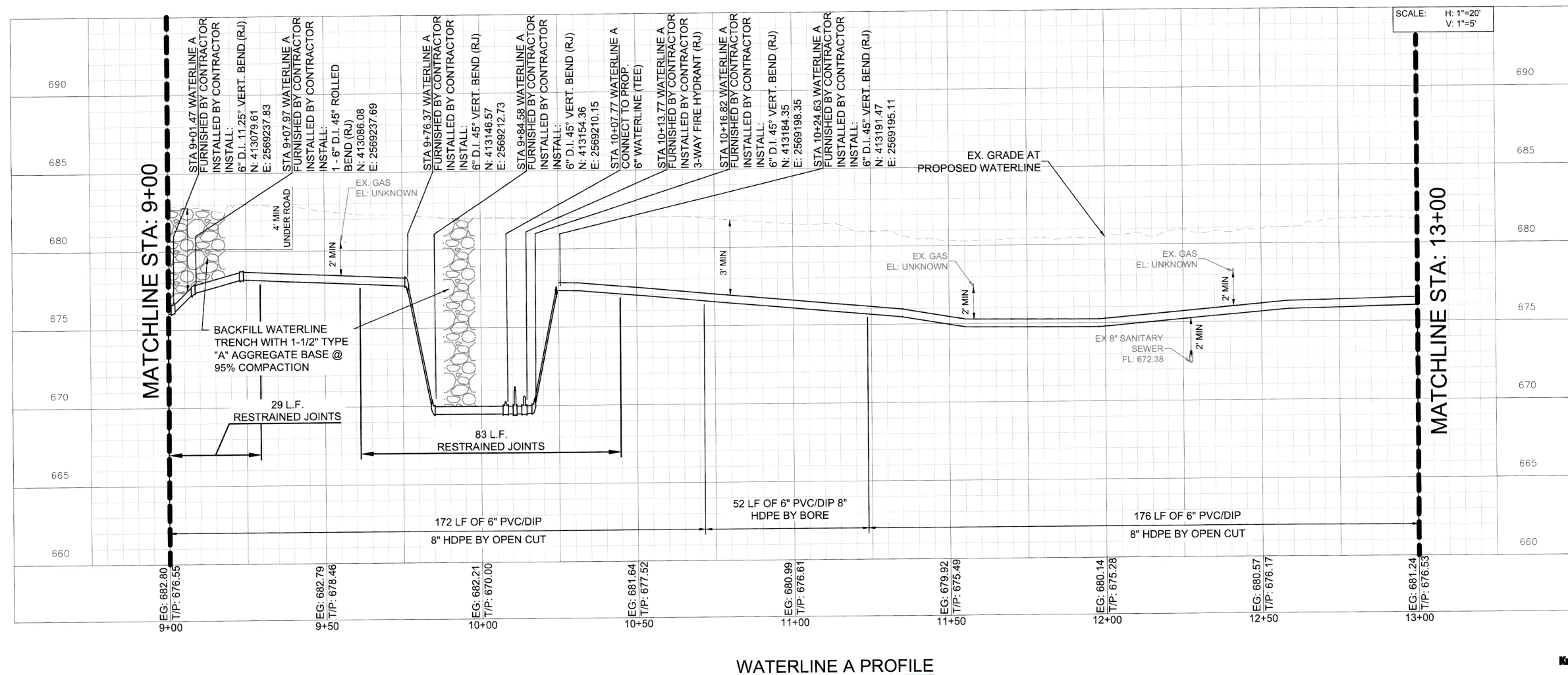
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

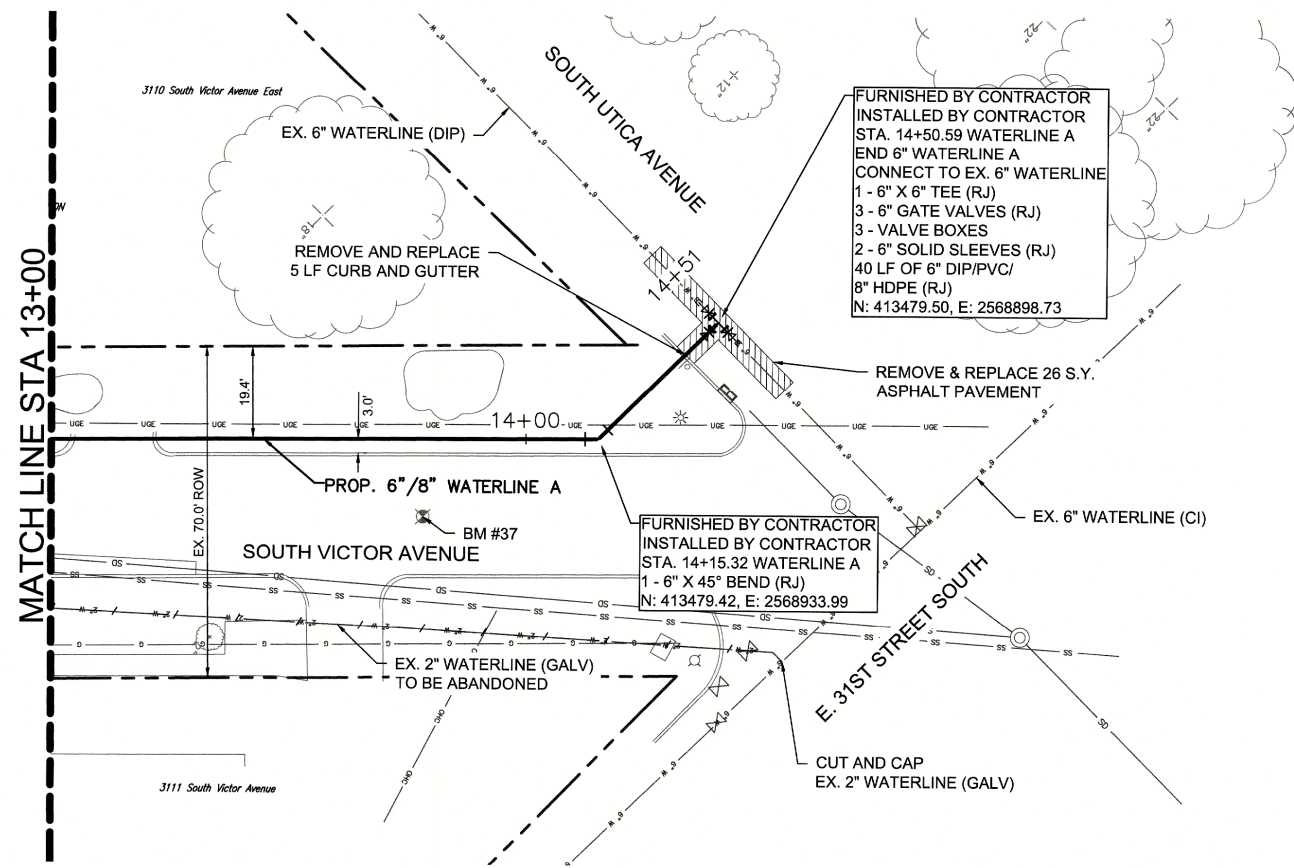
PLANS AND ESTIMATES PREPARED BY:

Kimley»Horn

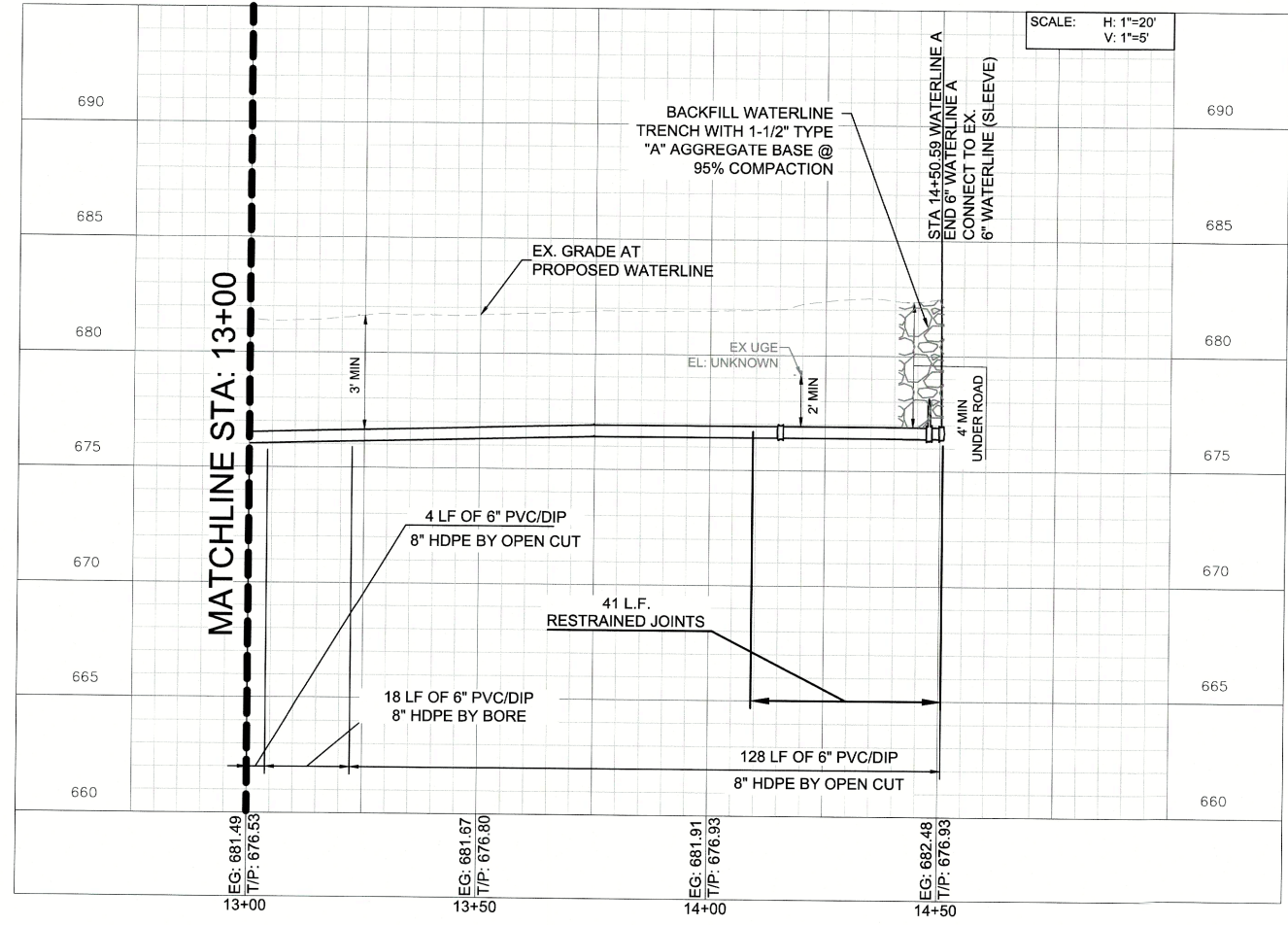
1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
OK License No. 2740 Exp.
Date 06/30/2027
(918) 209-3191

PLAN SCALE:		DRAWN	OCB	5/2/25	APPROVED:
1"=20'		DESIGNED	RWS	5/2/25	
		SURVEY	DB	5/2/25	
PROFILE SCALES:		PROJ MNGR.:			
HORIZONTAL:		LEAD ENGR.:			
1"=20'		FIELD MNGR.:			
VERTICAL		RECOMMENDED:			
1"=5'		DESIGN MANAGER			
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ATLAS PAGE NO: 95		SHEET 12 OF 32			

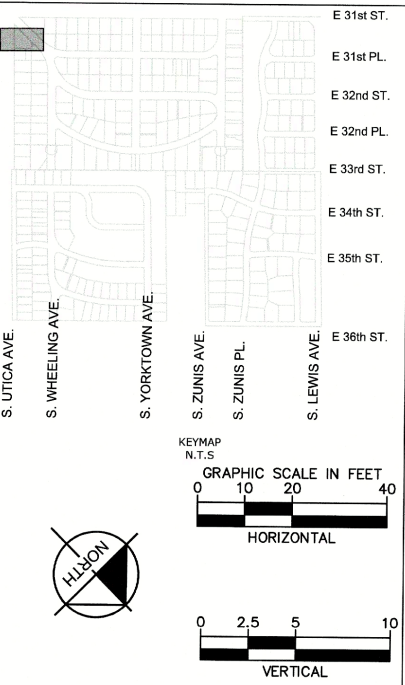
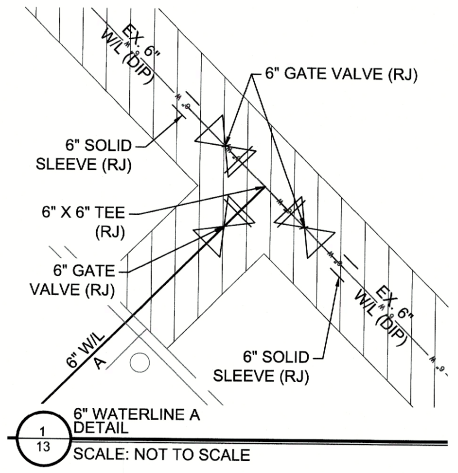




WATERLINE A PLAN



WATERLINE A PROFILE



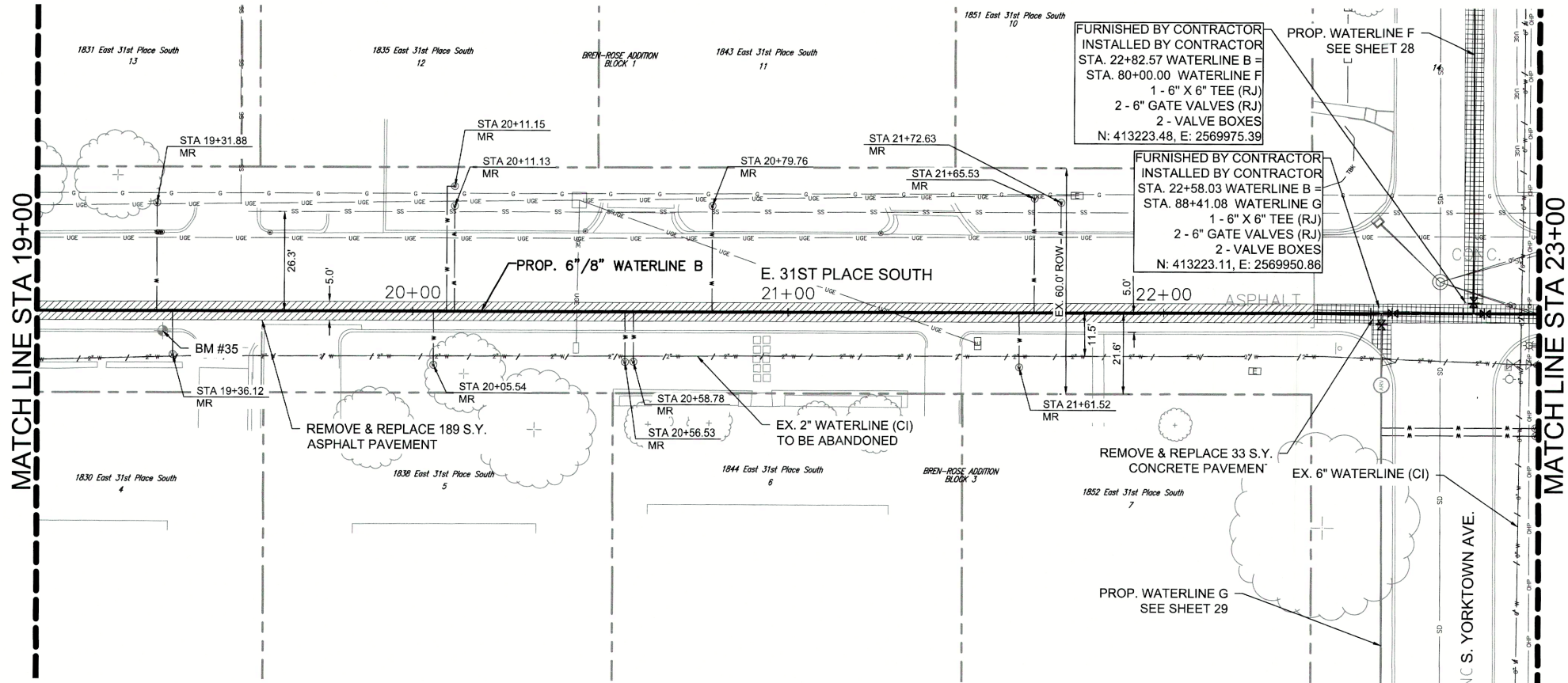
LEGEND

- BM #902 BENCHMARK
- 664.29 663.12 EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET

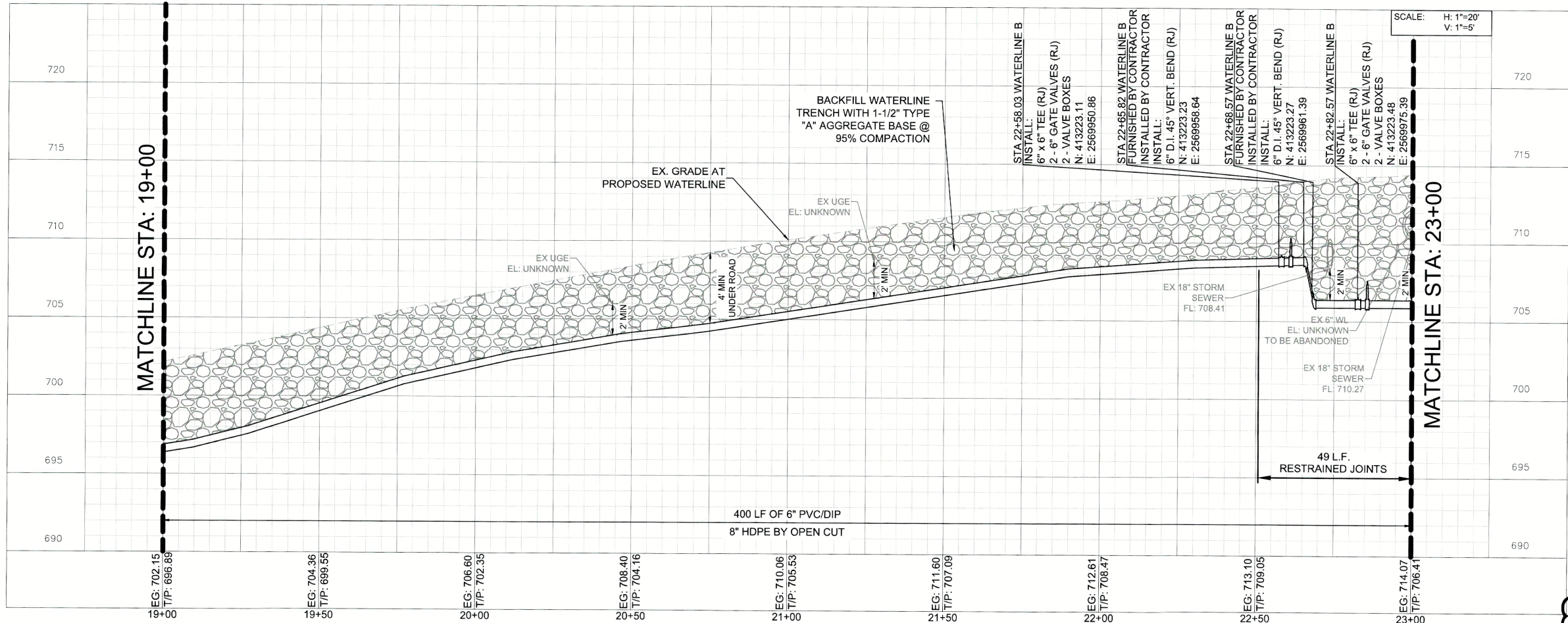


WATERLINE A STA 12+50 TO END			
PROJECT NO. TMUA-W 25-03			
2\"/>			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: Kimley»Horn 1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119 OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191			
PLAN SCALE:	DRAWN	OCB	5/2/25
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	SURVEY	DB	5/2/25
PROFILE SCALES:	PROJ MNGR.:		
HORIZONTAL:	LEAD ENGR.:		
1\"/>	FIELD MNGR.:		
VERTICAL:	RECOMMENDED DESIGN MANAGER:		
1\"/>			
DRAWING:	C-WATERLINE A.DWG		
ATLAS PAGE NO:	95	SHEET 13 OF 32	





WATERLINE B PLAN



WATERLINE B PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
5	3/4" WATER SERVICE CONNECTION (LONG)
5	3/4" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)

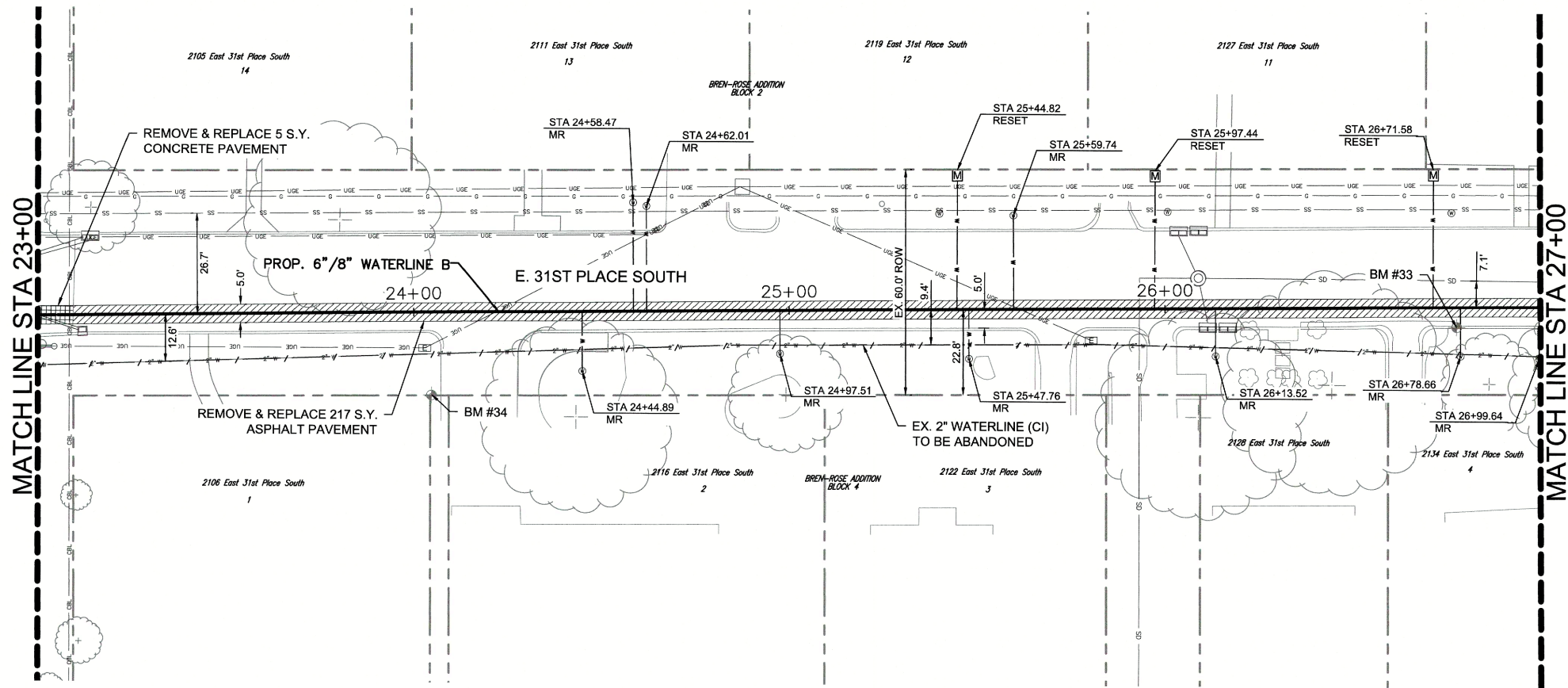
LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET

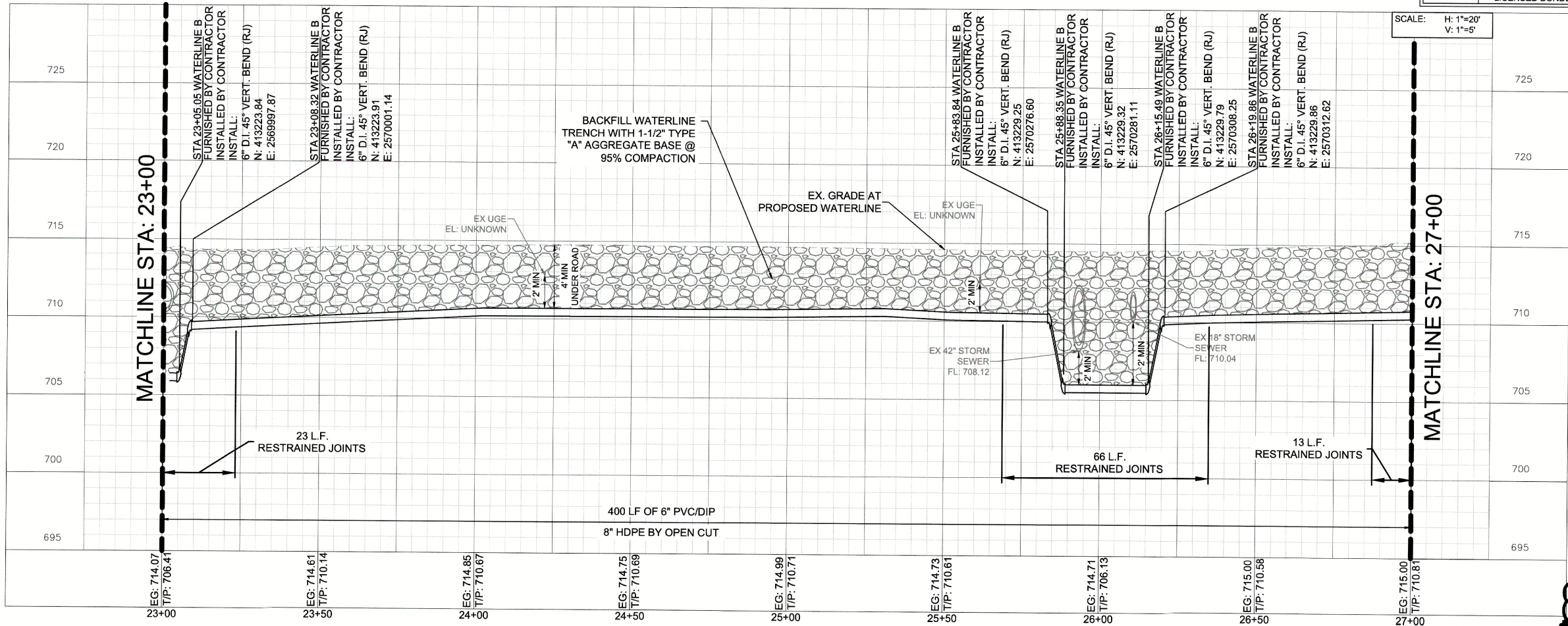


WATERLINE B STA 19+00 TO 23+00			
PROJECT NO. TMUA-W 25-03			
2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,			
CITY OF TULSA, OKLAHOMA ENGINEERING SERVICES DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: Kimley»Horn 1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119 OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191			
PLAN SCALE:	DRAWN	OCB	5/2/25
1"=20'	DESIGNED	RWS	5/2/25
	SURVEY	DB	5/2/25
PROFILE SCALES:	PROJ MNGR.:		
HORIZONTAL:	LEAD ENGR.:		
1"=20'	FIELD MNGR.:		
1"=5'	RECOMMENDED:		
	DESIGN MANAGER		
DRAWING:	C-WATERLINE B.DWG		
ATLAS PAGE NO.:	95	SHEET 15 OF 32	





WATERLINE B PLAN



WATERLINE B PROFILE

NOTES

- CONTRACTOR SHALL SUBMIT SHOP DRAWING DEMONSTRATING HOW STORM PIPING WILL BE SUPPORTED FOR REVIEW AND ACCEPTANCE. ANY DAMAGE CAUSED TO THE EXISTING STORM LINES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.

SERVICE CONNECTIONS

NO.	SERVICE TYPE
5	3/4" WATER SERVICE CONNECTION (LONG)
4	3/4" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)
2	1" WATER SERVICE CONNECTION (SHORT)
3	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



REVISION	BY	DATE

WATERLINE B STA 23+00 TO 27+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

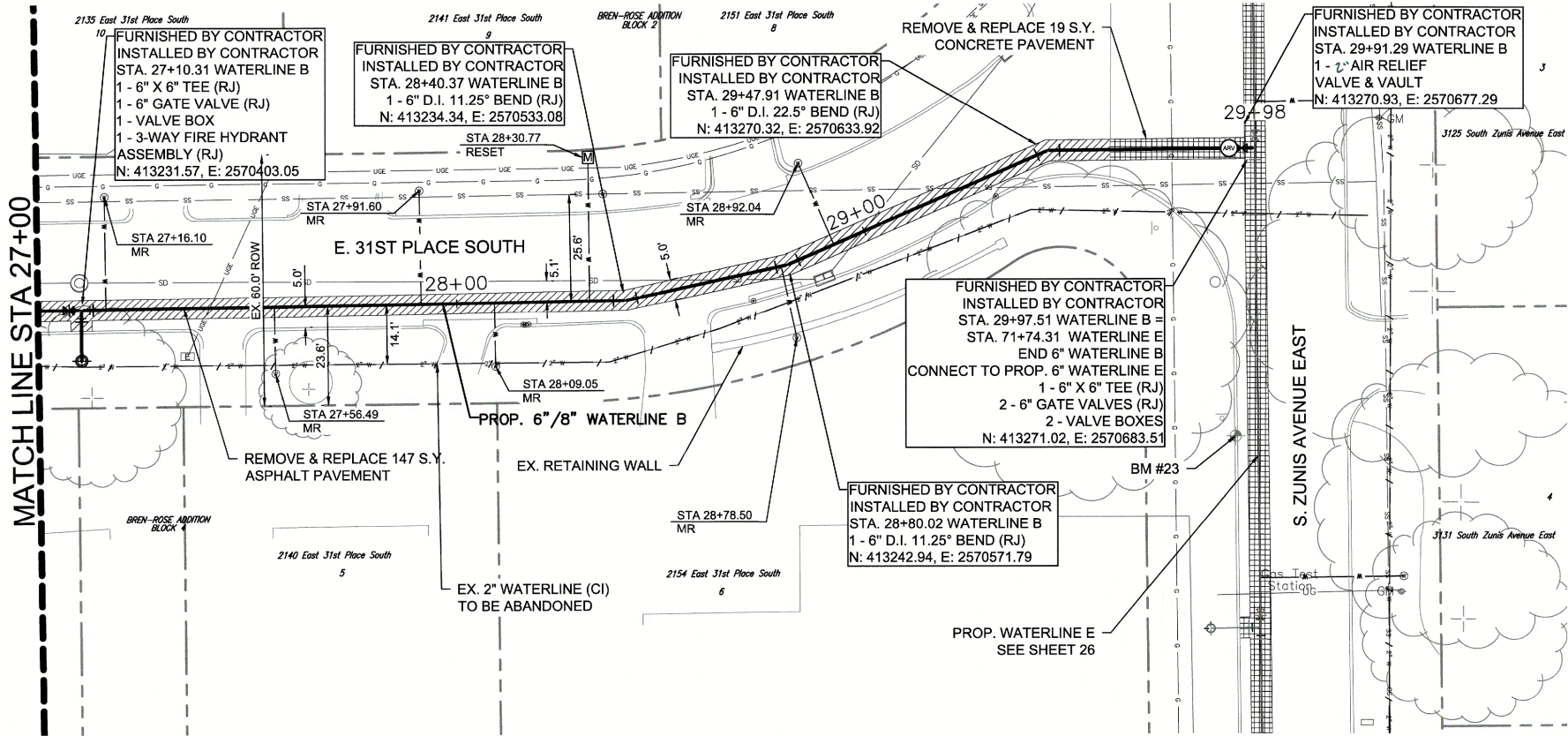
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
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	SURVEY	DB	5/2/25	

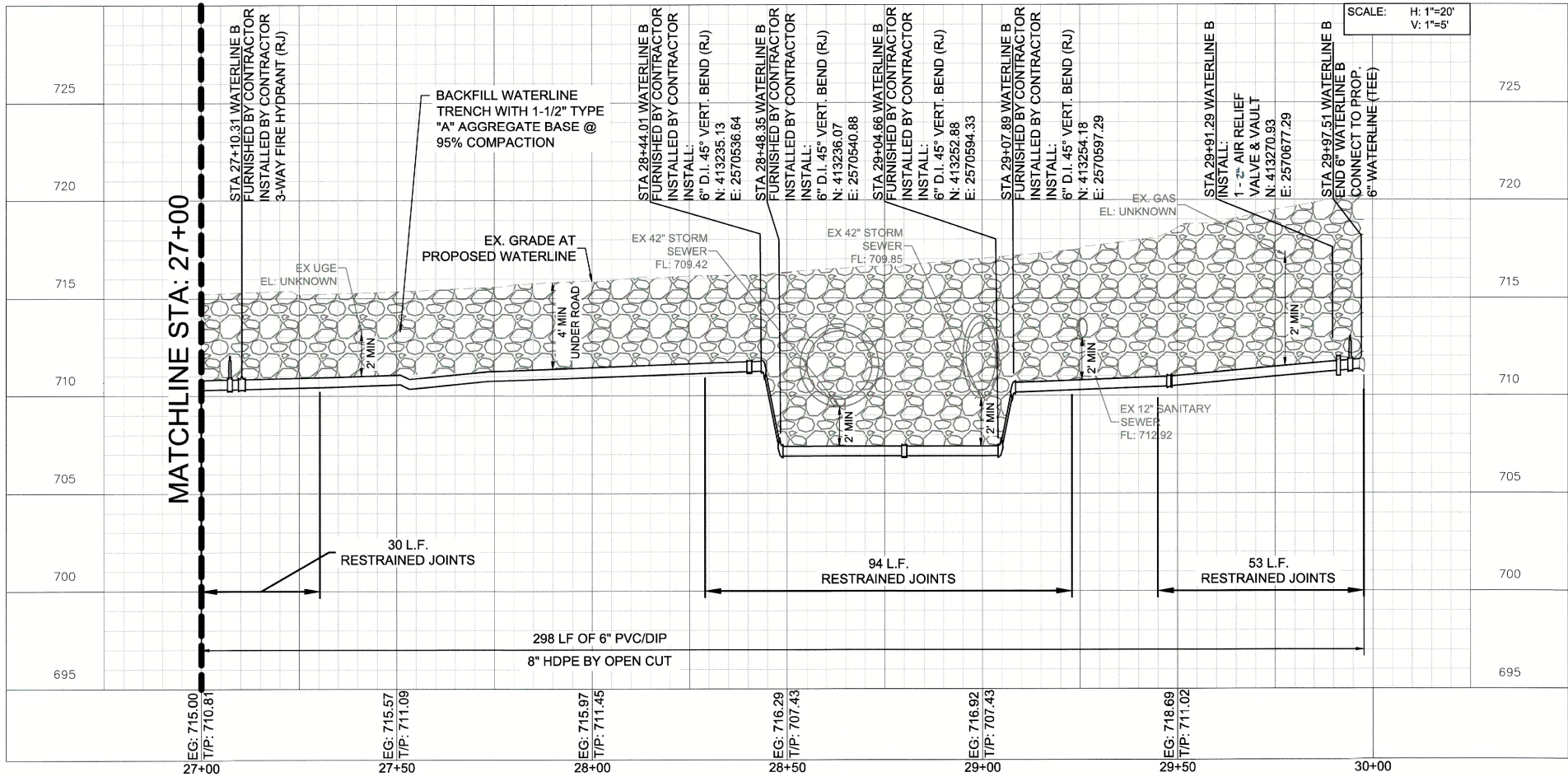
PROFILE SCALES:	PROJ MNGR.:	
HORIZONTAL:	LEAD ENGR.:	
1"=20'	FIELD MNGR.:	
VERTICAL:		
1"=5'		

DRAWING: C-WATERLINE B.DWG
ATLAS PAGE NO: 95
SHEET 16 OF 32





WATERLINE B PLAN



WATERLINE B PROFILE

NOTES

- CONTRACTOR SHALL SUBMIT SHOP DRAWING DEMONSTRATING HOW STORM PIPING WILL BE SUPPORTED FOR REVIEW AND ACCEPTANCE. ANY DAMAGE CAUSED TO THE EXISTING STORM LINES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.

SERVICE CONNECTIONS

NO.	SERVICE TYPE
1	3/4" WATER SERVICE CONNECTION (LONG)
3	3/4" WATER SERVICE CONNECTION (SHORT)
2	1" WATER SERVICE CONNECTION (LONG)
1	1" WATER SERVICE CONNECTION (SHORT)
1	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER

LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE B STA 27+00 TO END

PROJECT NO. TMUA-W 25-03 C2

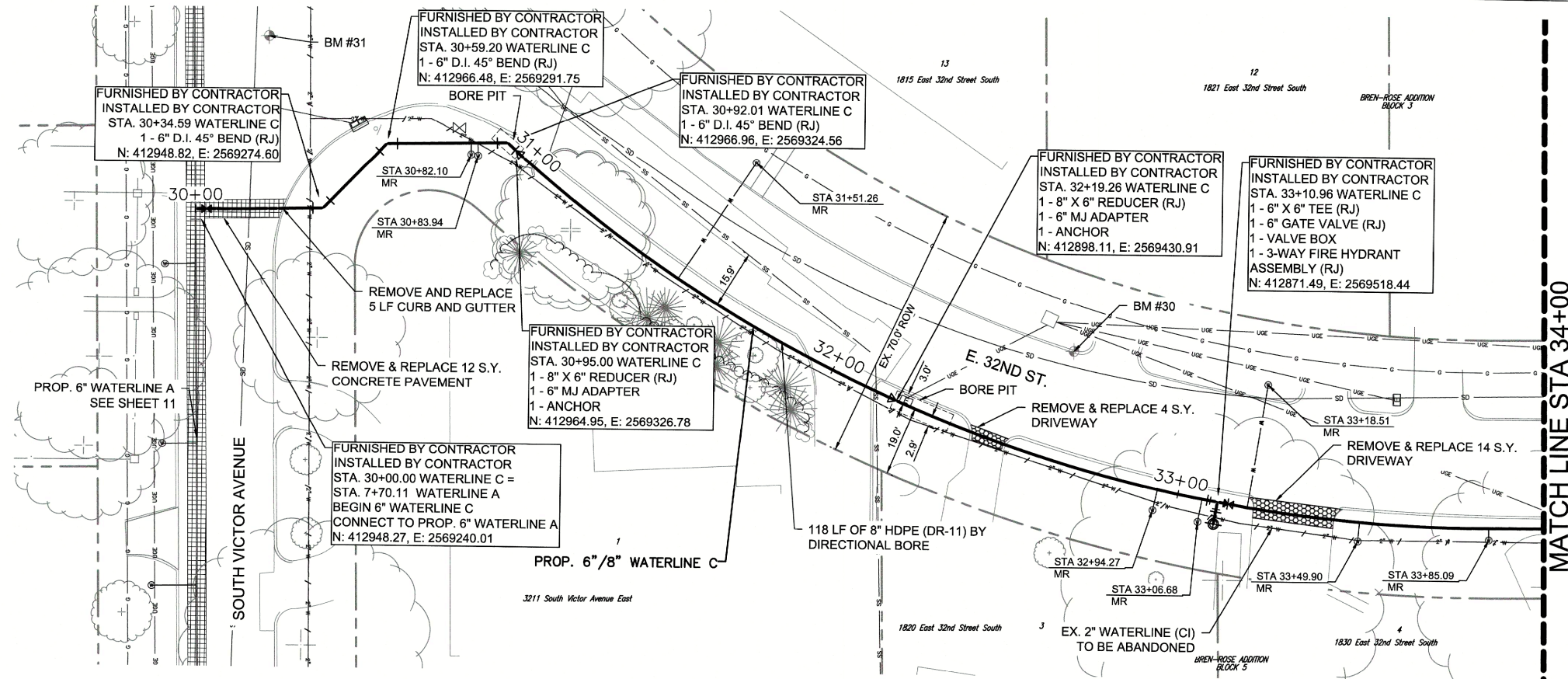
2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

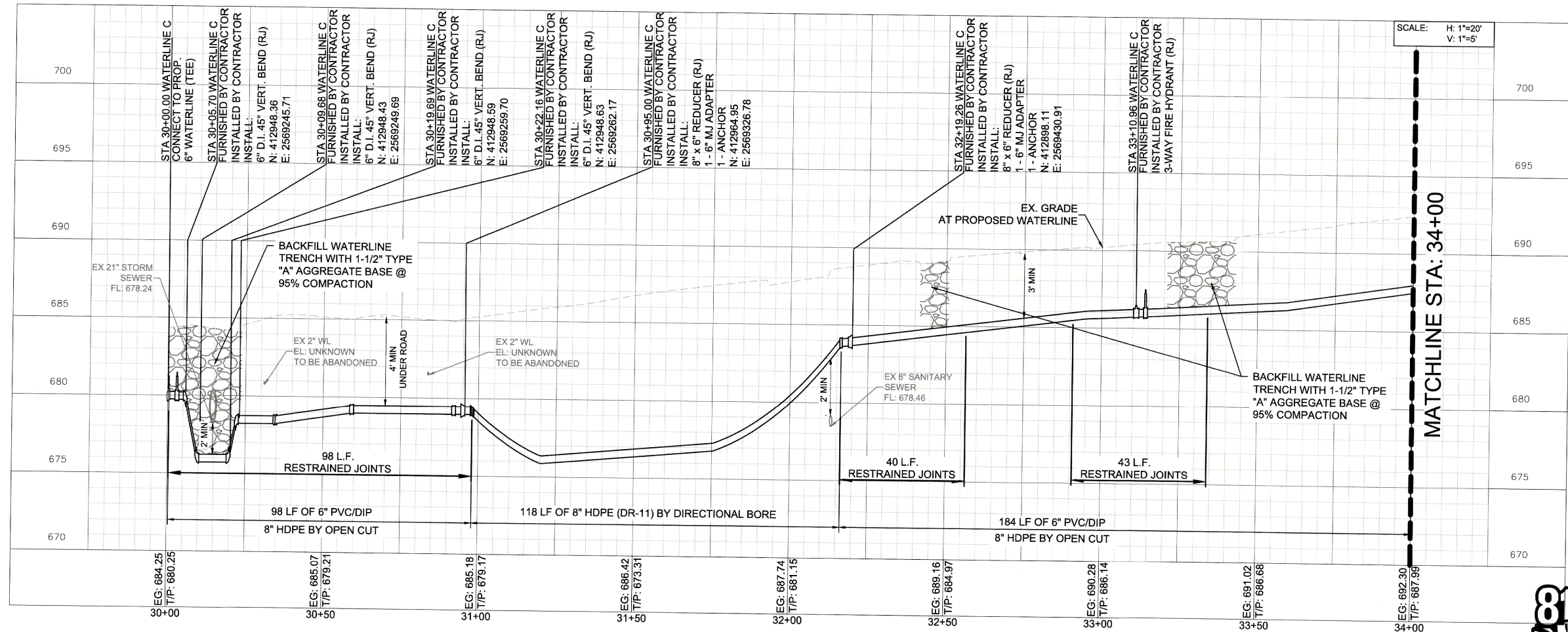
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 05/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:	EGW	4/26	
1"=20'	FIELD MNGR.:	KEW	4/26	
VERTICAL				
1"=5'				
DRAWING:	C-WATERLINE B.DWG			
ATLAS PAGE NO:	95			
				DESIGN MANAGER





WATERLINE C PLAN



WATERLINE C PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
2	3/4" WATER SERVICE CONNECTION (LONG)
3	3/4" WATER SERVICE CONNECTION (SHORT)
3	1" WATER SERVICE CONNECTION (SHORT)

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE C STA 30+00 TO 34+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,

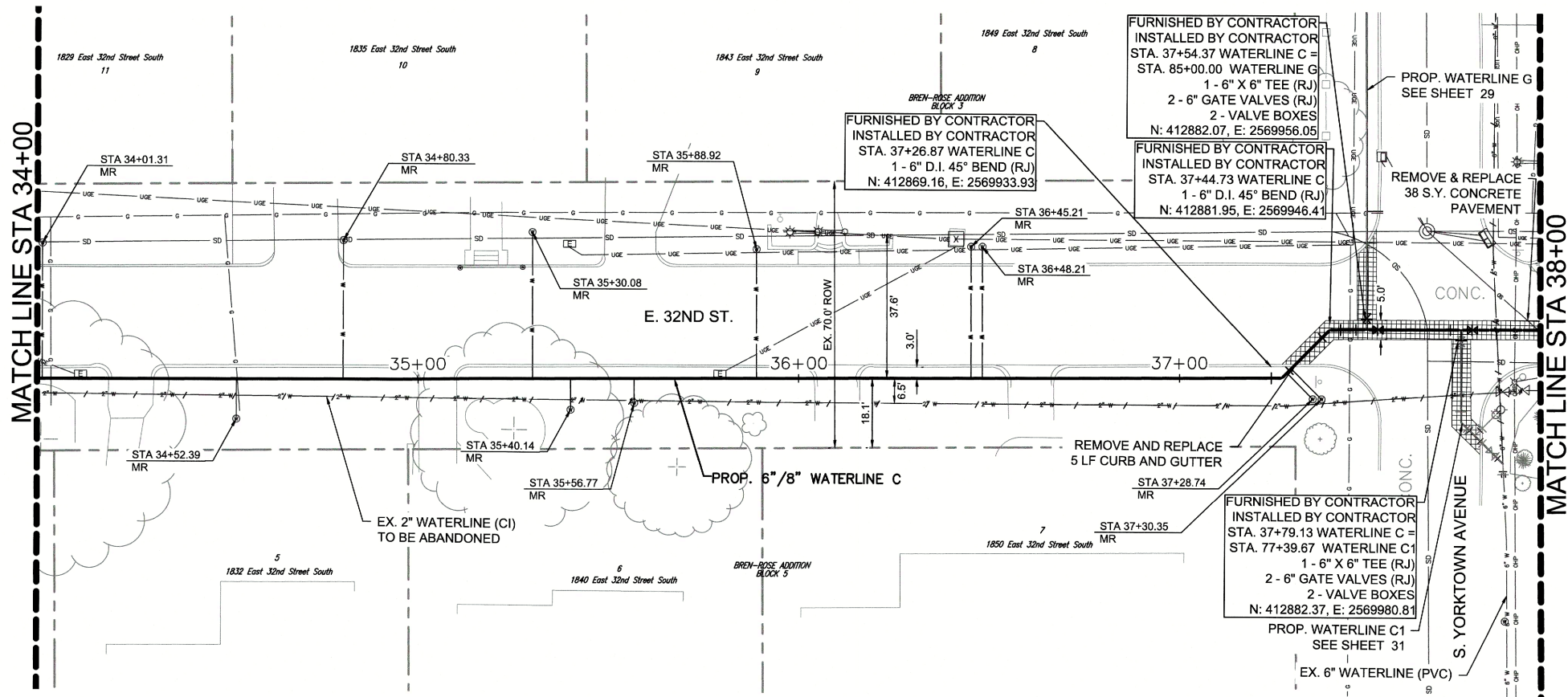
CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 530, Tulsa, OK 74119
OK License No. 2740 Exp. Date 05/30/2027 (918) 209-3191

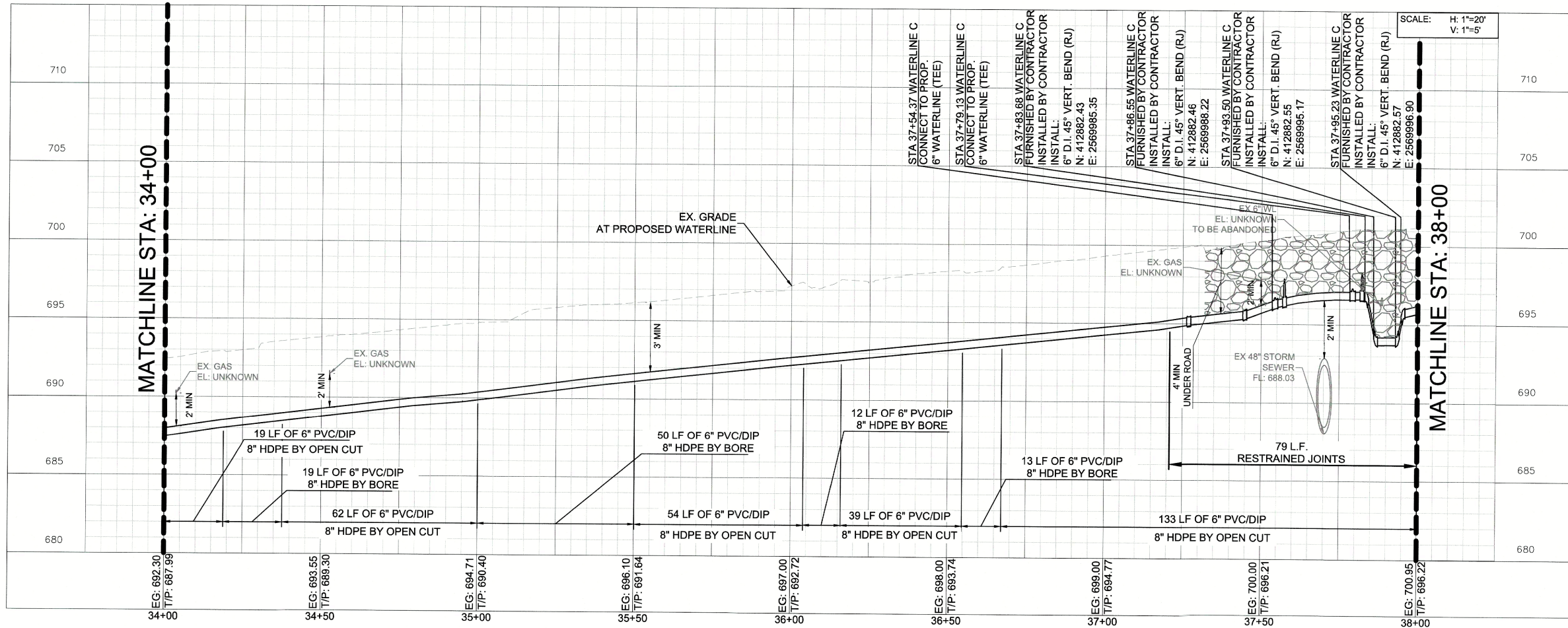
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	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL				
1"=5'				
DRAWING:	C-WATERLINE C.DWG			
ATLAS PAGE NO:	95			



PLOT DATE: 3/19/2026 9:54 AM, DRAWING NAME: C-WATERLINE C.DWG



WATERLINE C PLAN



WATERLINE C PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
4	¾" WATER SERVICE CONNECTION (LONG)
2	¾" WATER SERVICE CONNECTION (SHORT)
2	1" WATER SERVICE CONNECTION (LONG)
3	1" WATER SERVICE CONNECTION (SHORT)

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE C STA 34+00 TO 38+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

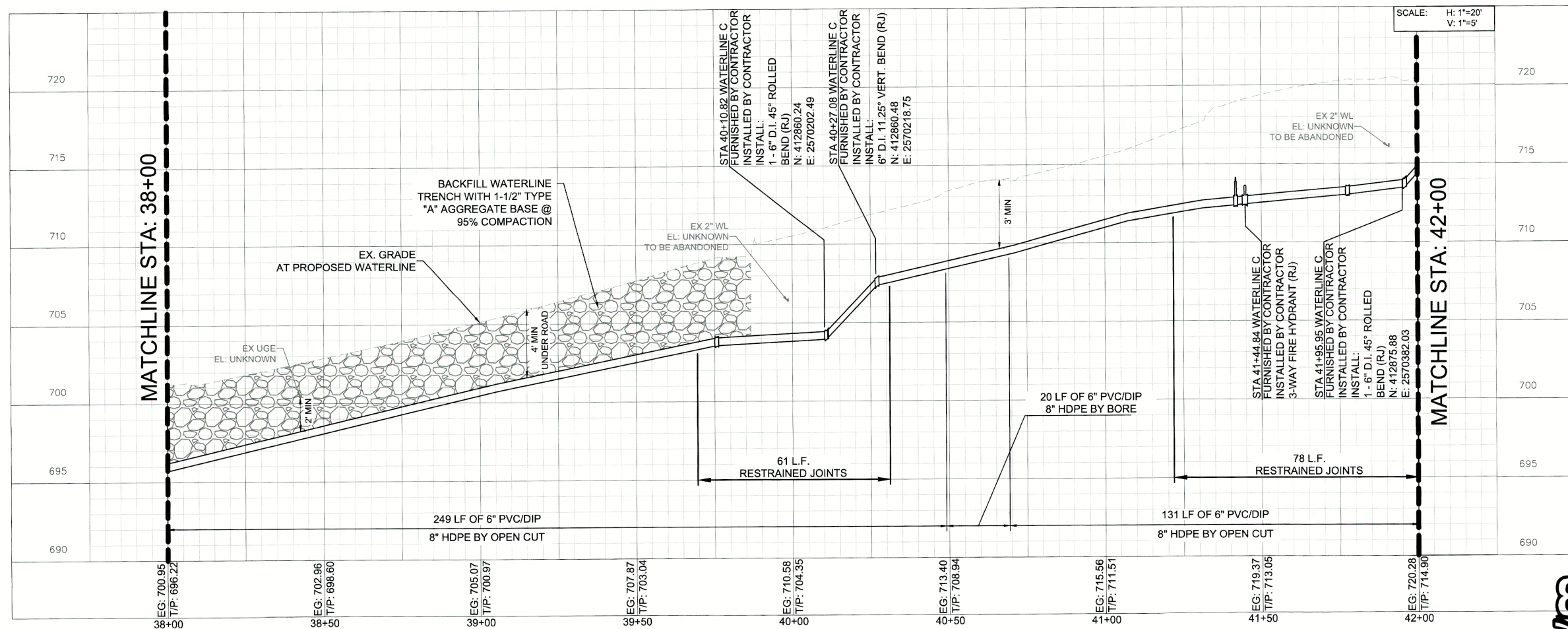
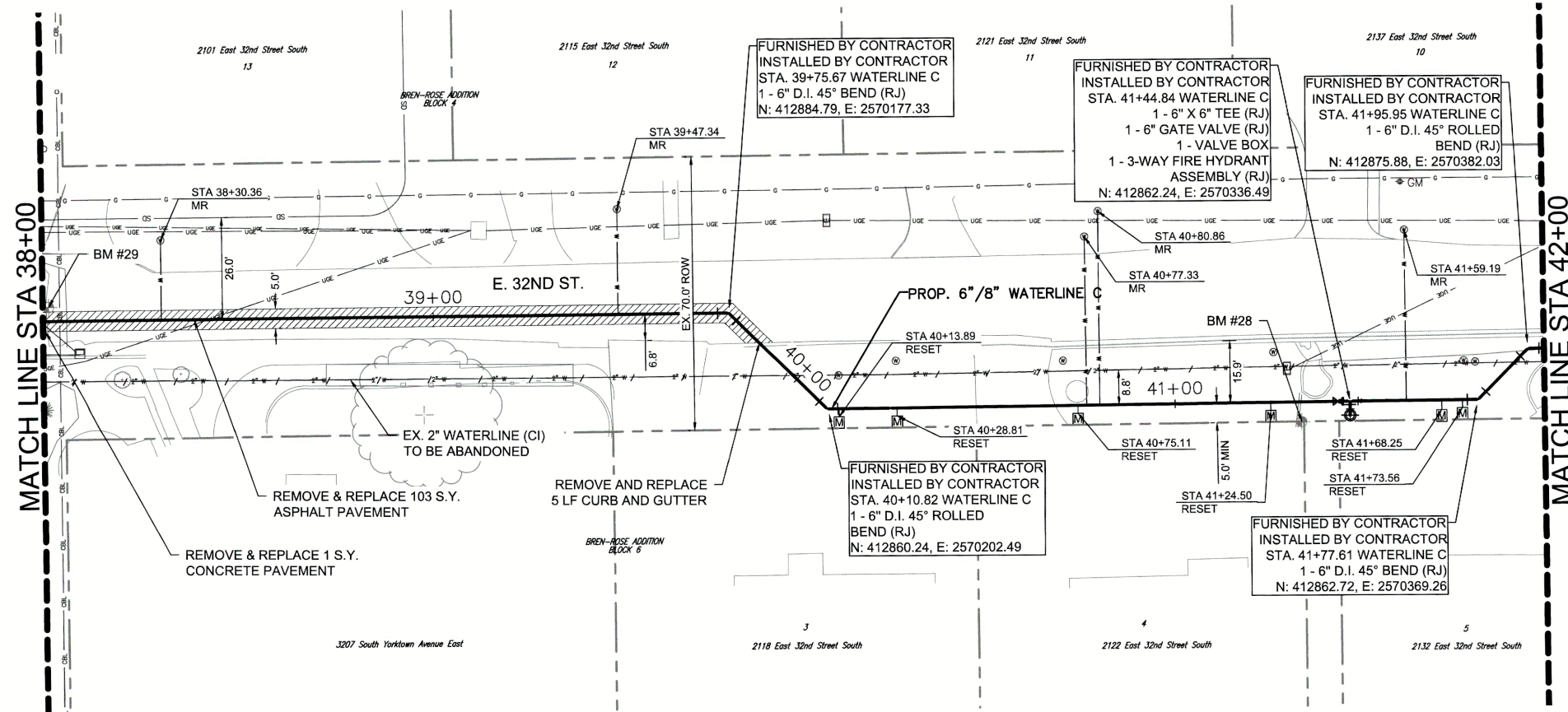
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
PROFILE SCALES:	SURVEY	DB	5/2/25	
HORIZONTAL:	PROJ MNGR.:			
1"=20'	LEAD ENGR.:			
VERTICAL:	FIELD MNGR.:			
1"=5'				

DRAWING: C-WATERLINE C.DWG
ATLAS PAGE NO: 95
SHEET 19 OF 32



CITY OF TULSA PROJECT NO. TMUA-W 25-03



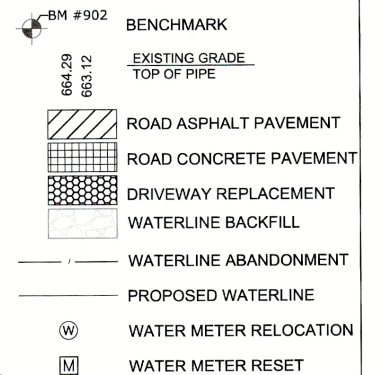
NOTES

1. EXISTING BENCHMARK #29 IS WITHIN THE CONSTRUCTION LIMITS. CONTRACTOR TO PROTECT EXISTING BENCHMARK #29 DURING CONSTRUCTION. ANY DAMAGE CAUSED TO THE EXISTING BENCHMARK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CITY.

SERVICE CONNECTIONS

NO.	SERVICE TYPE
4	¾" WATER SERVICE CONNECTION (LONG)
4	¾" WATER SERVICE CONNECTION (SHORT)
3	1" WATER SERVICE CONNECTION (SHORT)
6	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER

LEGEND



REVISION	BY	DATE

WATERLINE C STA 38+00 TO 42+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

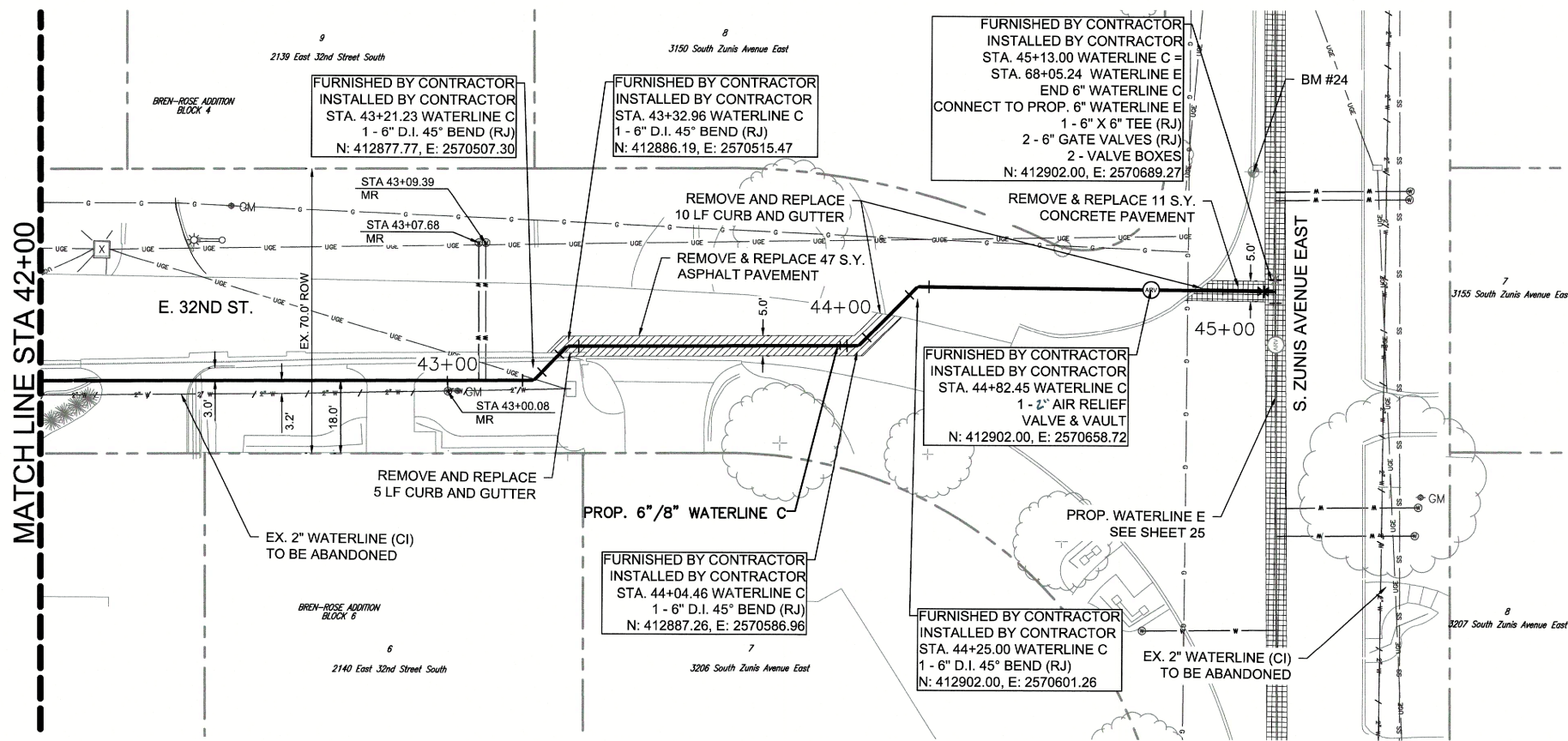
Kimley»Horn

1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
OK License No. 2740 Exp.
Date 06/30/2027
(918) 209-3191

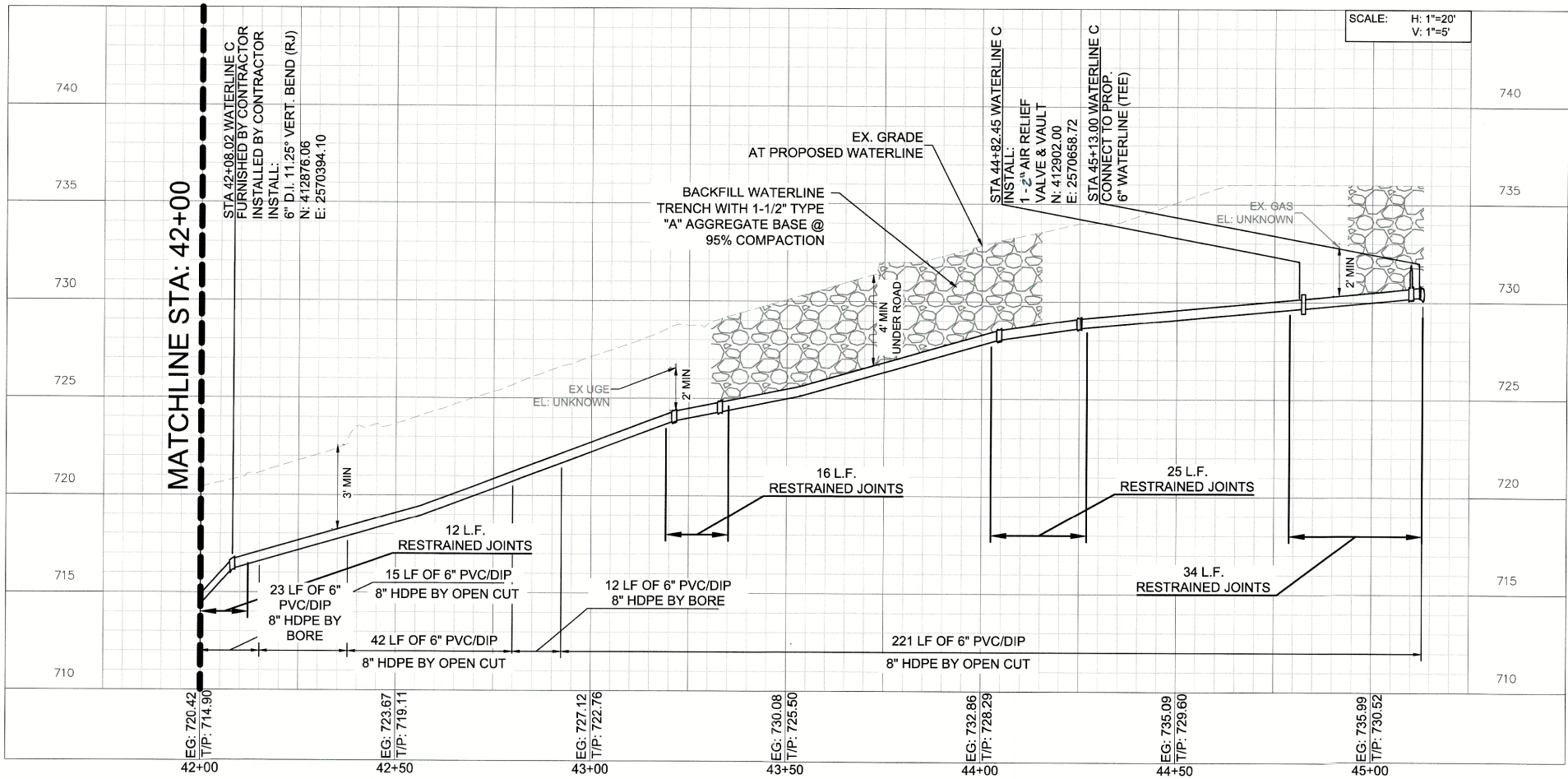
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		SURVEY	DB	5/2/25	
PROFILE SCALES:		PROJ MNGR.:			 DESIGN MANAGER
HORIZONTAL:		LEAD ENGR.:			
1"=20'		FIELD MNGR.:	<i>Bruce</i>	<i>4/26</i>	
VERTICAL					
1"=5'					
DRAWING: C-WATERLINE C.DWG					
ATLAS PAGE NO:		95			SHEET 20 OF 32

PLOT DATE: 3/19/2026 9:54 AM, DRAWING NAME: C-WATERLINE C.DWG

CITY OF TULSA PROJECT NO. TMUA-W 25-03



WATERLINE C PLAN



WATERLINE C PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
2	3/4" WATER SERVICE CONNECTION (LONG)
1	3/4" WATER SERVICE CONNECTION (SHORT)

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE C STA 42+00 TO END

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

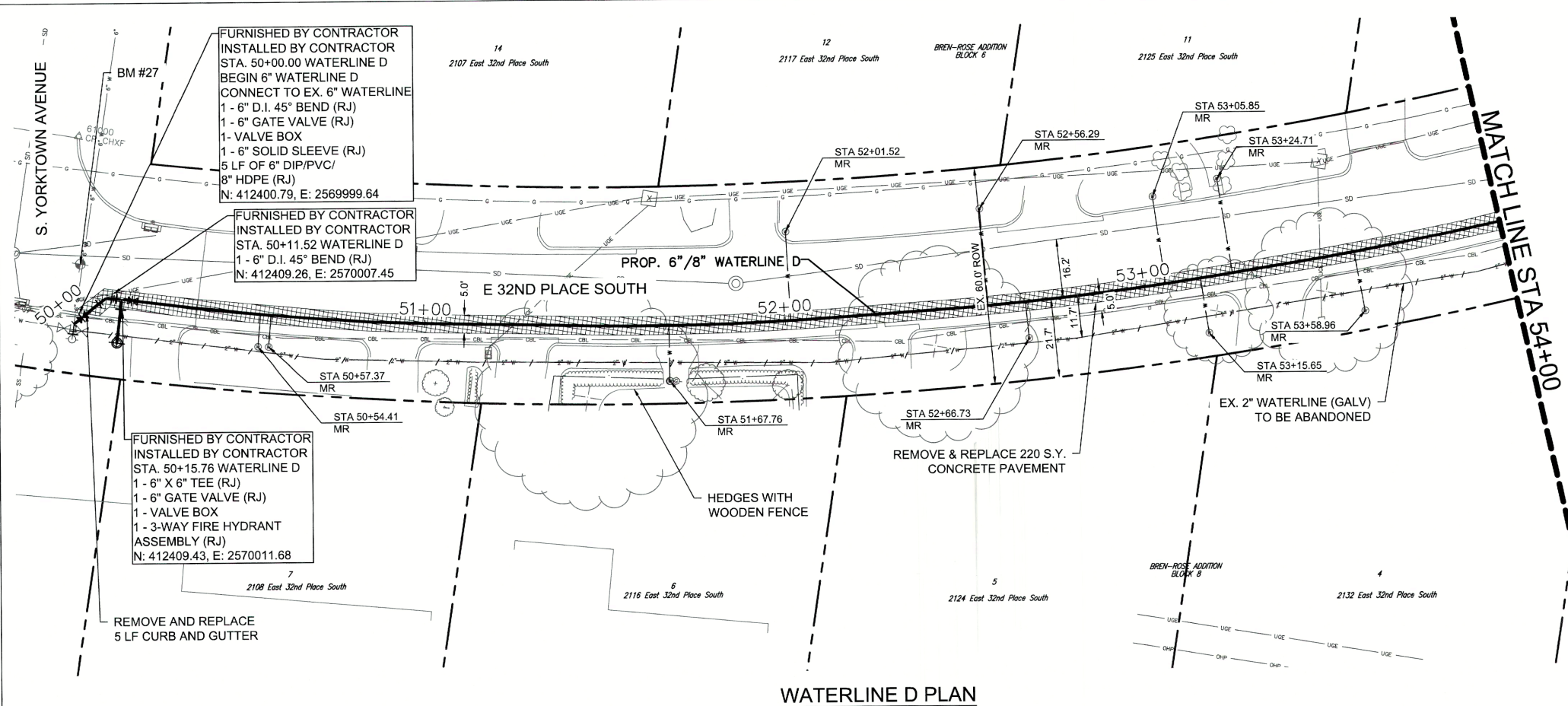
PLANS AND ESTIMATES PREPARED BY:
Kimley-Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE: 1"=20'	DRAWN: DESIGNED: SURVEY: DB	OCB: RWS	5/2/25	APPROVED:
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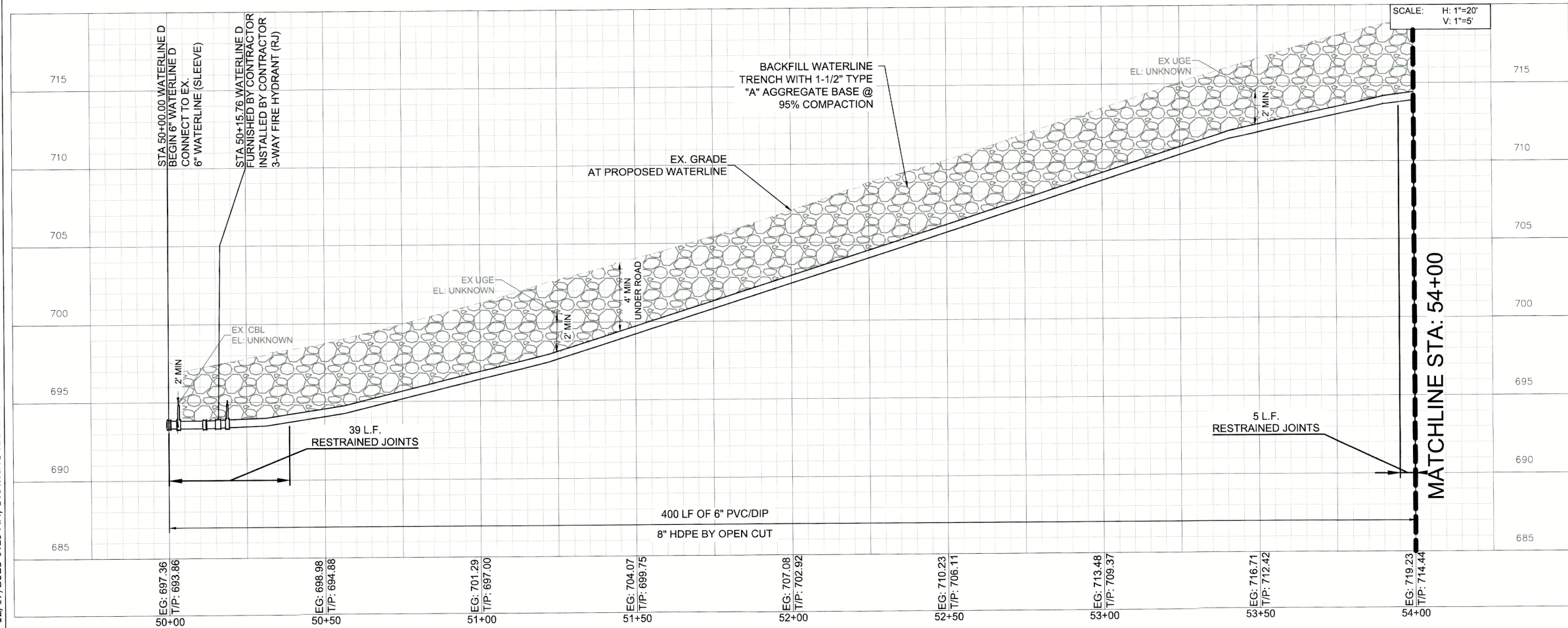
DRAWING: C-WATERLINE C.DWG	ATLAS PAGE NO: 95	SHEET 21 OF 32
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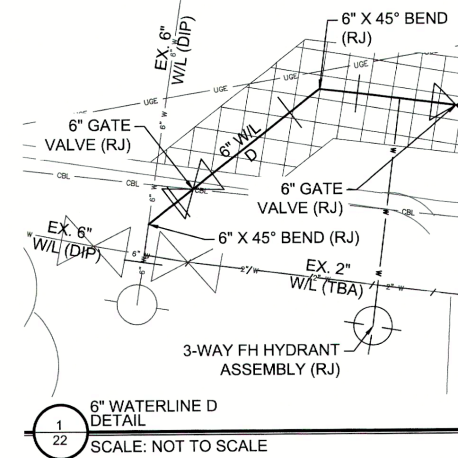
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WATERLINE D PLAN



WATERLINE D PROFILE



SERVICE CONNECTIONS

NO.	SERVICE TYPE
1	3/4\"
6	3/4\"
1	1\"
2	1\"

LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE D STA 50+00 TO 54+00

PROJECT NO. TMUA-W 25-03 *CR*

2\"

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

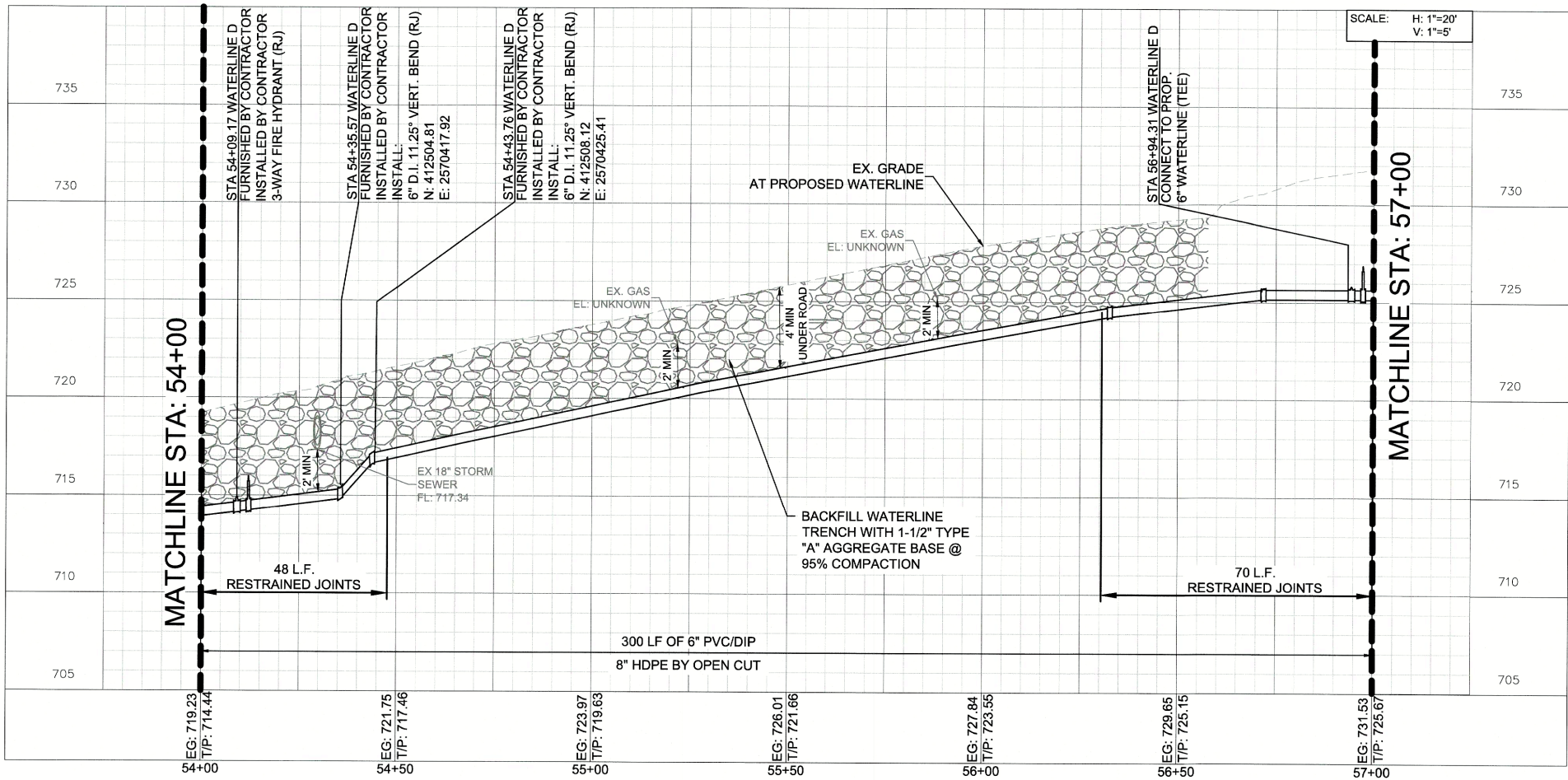
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1\"	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
	LEAD ENGR.:			
HORIZONTAL:	FIELD MNGR.:			
1\"	RECOMMENDED			
VERTICAL:	DESIGN MANAGER			
1\"				
DRAWING:	C-WATERLINE D.DWG			
ATLAS PAGE NO:	95			SHEET 22 OF 32

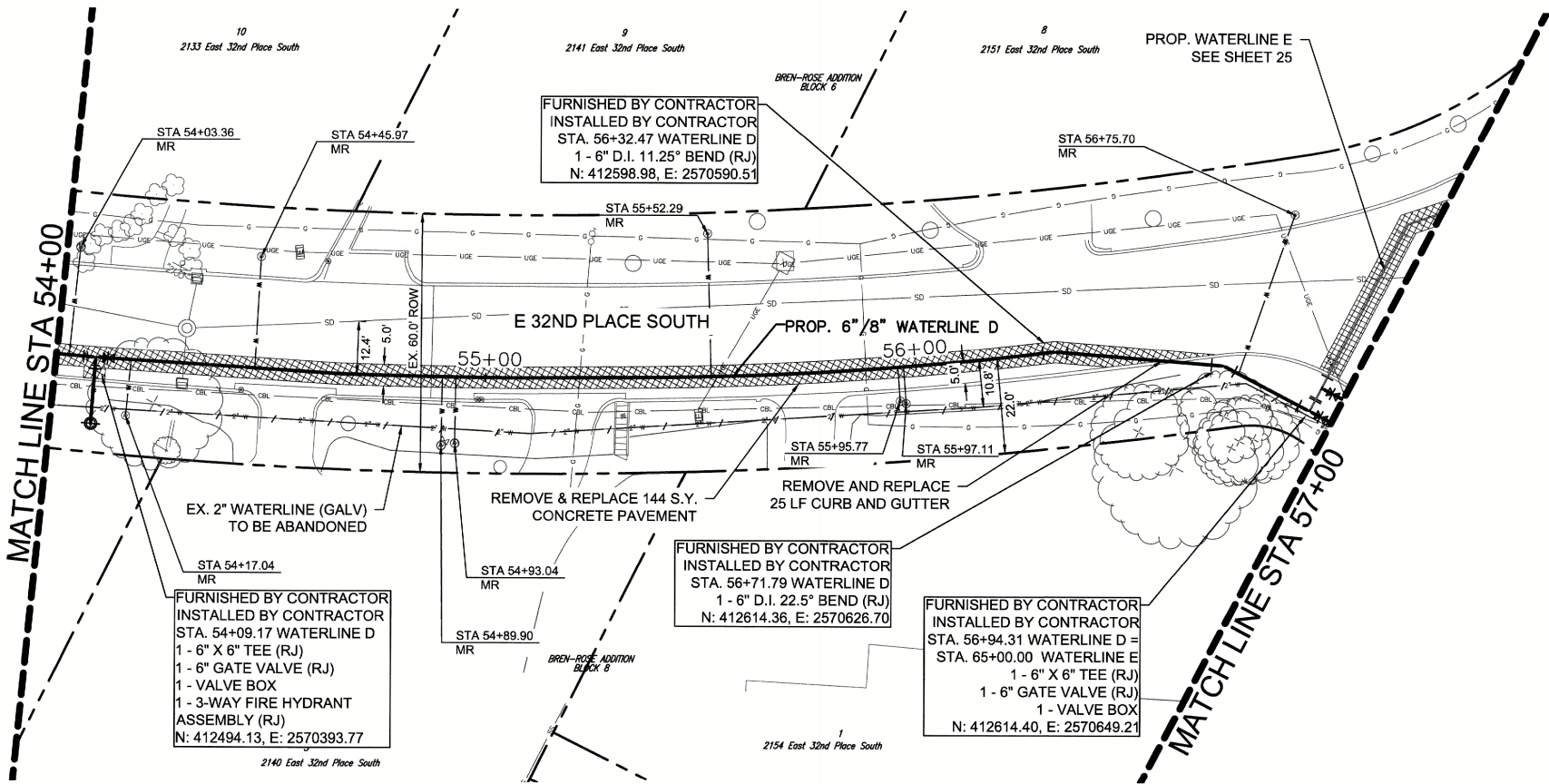


CITY OF TULSA PROJECT NO. TMUA-W 25-03

PLOT DATE: 3/19/2026 9:55 AM, DRAWING NAME: C-WATERLINE D.DWG



WATERLINE D PROFILE



WATERLINE D PLAN

SERVICE CONNECTIONS

NO.	SERVICE TYPE
3	3/4" WATER SERVICE CONNECTION (LONG)
4	3/4" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)
1	1" WATER SERVICE CONNECTION (SHORT)

LEGEND

- BM #902 BENCHMARK
- EXISTING GRADE
- TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE D STA 54+00 TO 57+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
WATER & SEWER DEPARTMENT

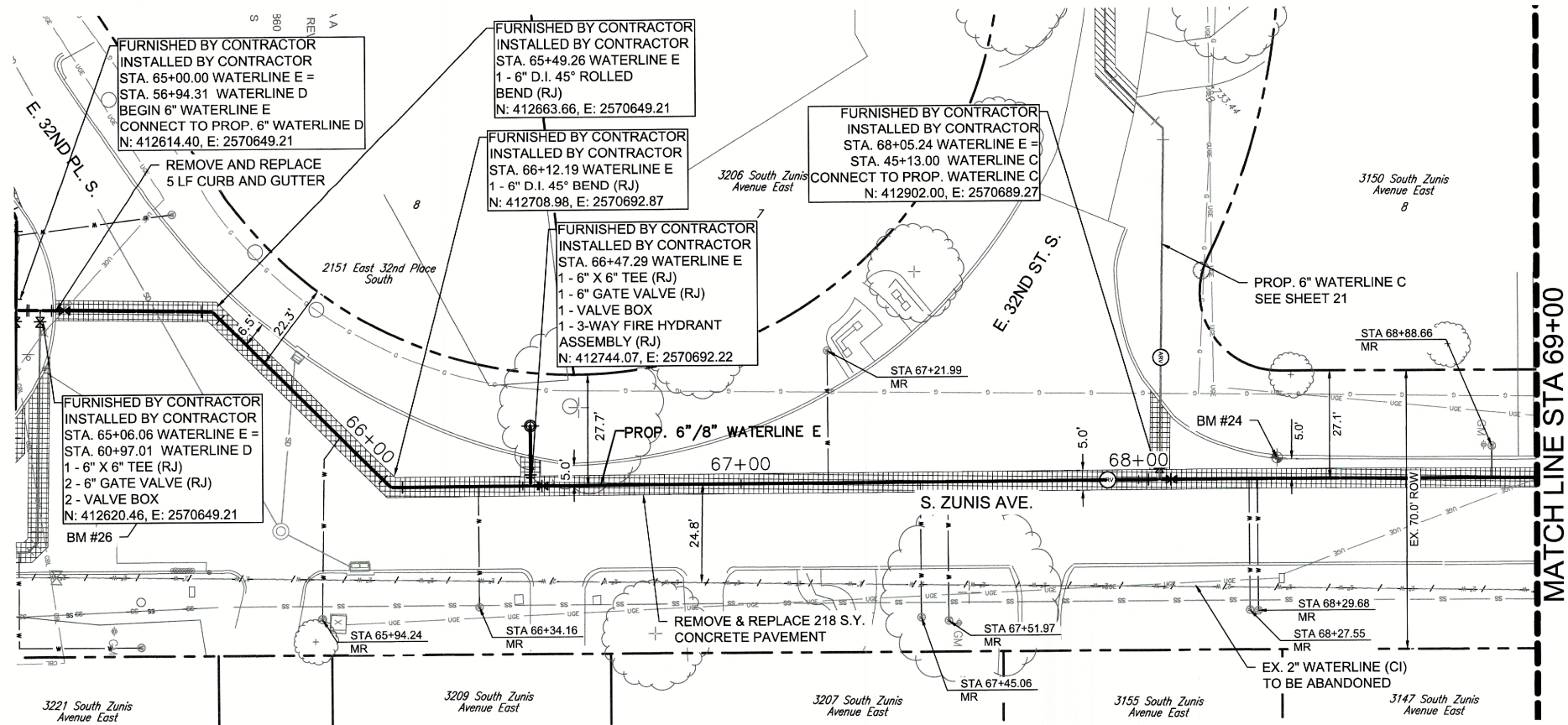
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
OK License No. 2740 Exp.
Date 05/30/2027
(918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL:				
1"=5'				

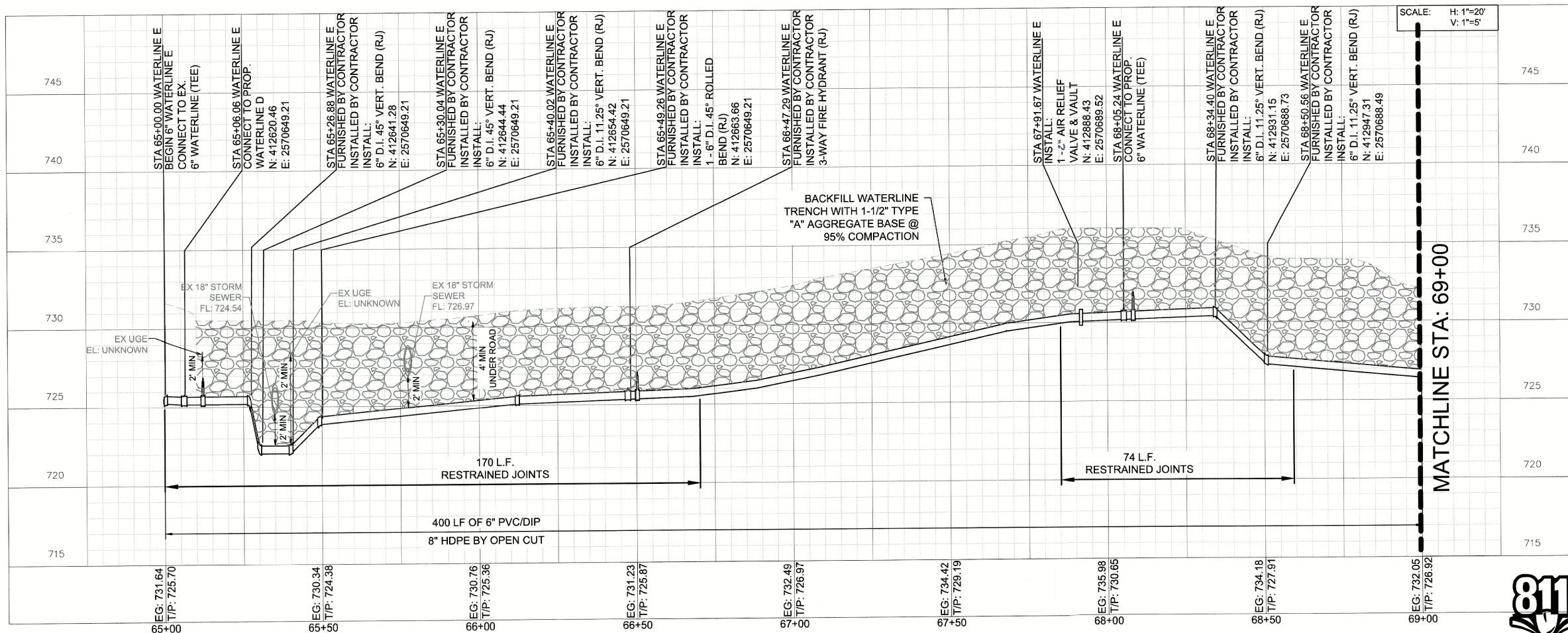
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ATLAS PAGE NO:	95
SHEET	23 OF 32



CITY OF TULSA PROJECT NO. TMUA-W 25-03



WATERLINE E PLAN



WATERLINE E PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
3	3/4" WATER SERVICE CONNECTION (LONG)
1	3/4" WATER SERVICE CONNECTION (SHORT)
4	1" WATER SERVICE CONNECTION (LONG)
0	1" WATER SERVICE CONNECTION (SHORT)

LEGEND

- BM #902 BENCHMARK
- 664.29 663.12 EXISTING GRADE TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE E STA 65+00 TO 69+00

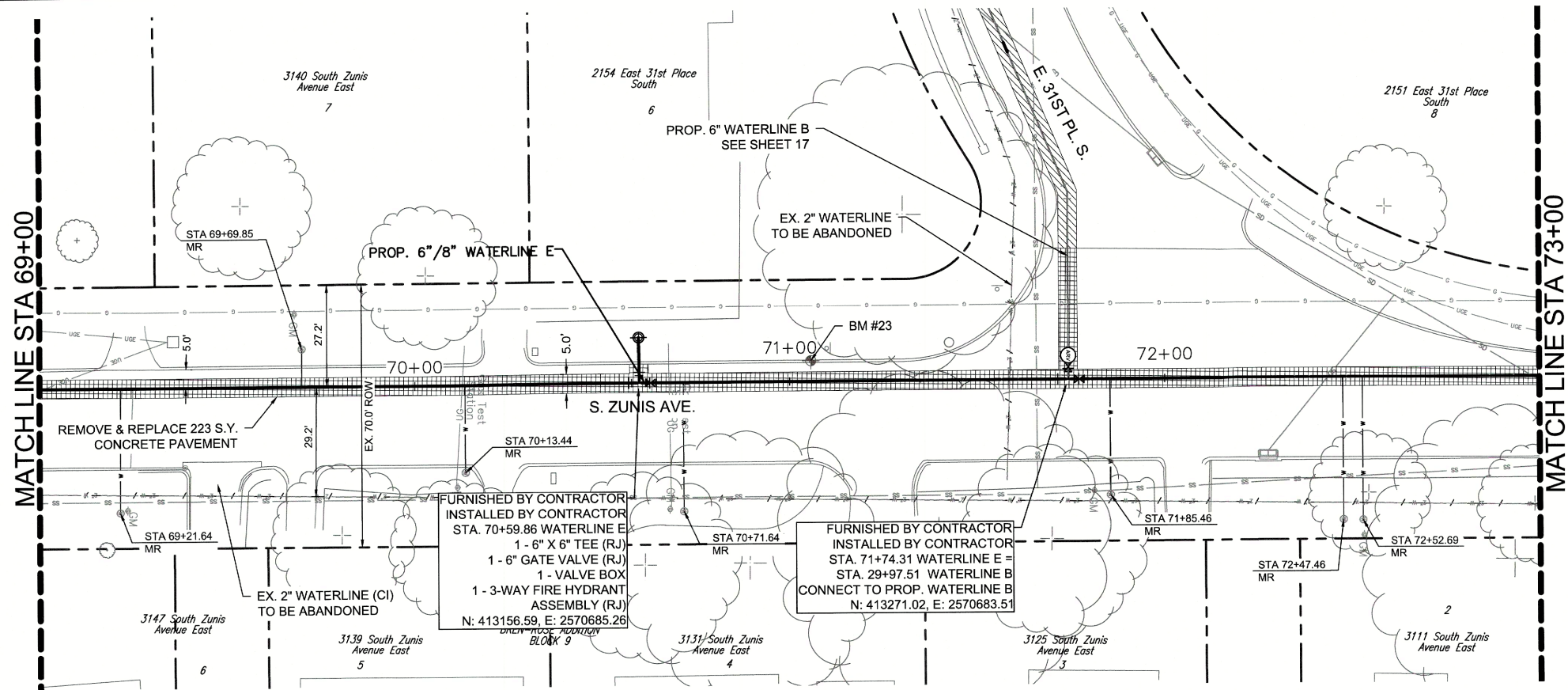
PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,

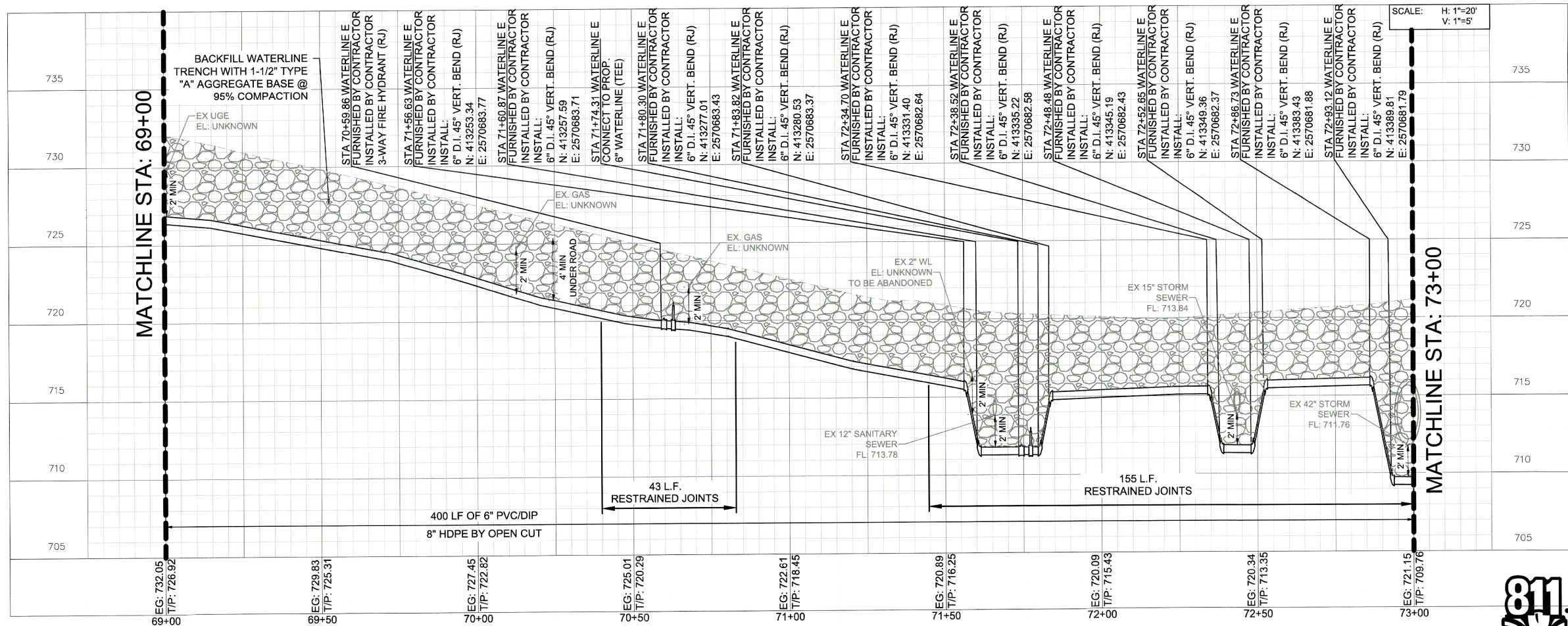
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY: Kimley»Horn 1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119 OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191			
PLAN SCALE:	DRAWN	OCB	5/2/25
	DESIGNED	RWS	5/2/25
	SURVEY	DB	5/2/25
PROFILE SCALES:	PROJ MNGR.:		
	LEAD ENGR.:		
	FIELD MNGR.:		
	RECOMMENDED:		
	DESIGN MANAGER		
HORIZONTAL:	1"=20'		
VERTICAL:	1"=5'		
DRAWING:	C-WATERLINE E.DWG		
ATLAS PAGE NO:	95		
			SHEET 25 OF 32





WATERLINE E PLAN



WATERLINE E PROFILE

SERVICE CONNECTIONS

NO.	SERVICE TYPE
4	3/4" WATER SERVICE CONNECTION (LONG)
2	3/4" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)

LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE E STA 69+00 TO 73+00

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

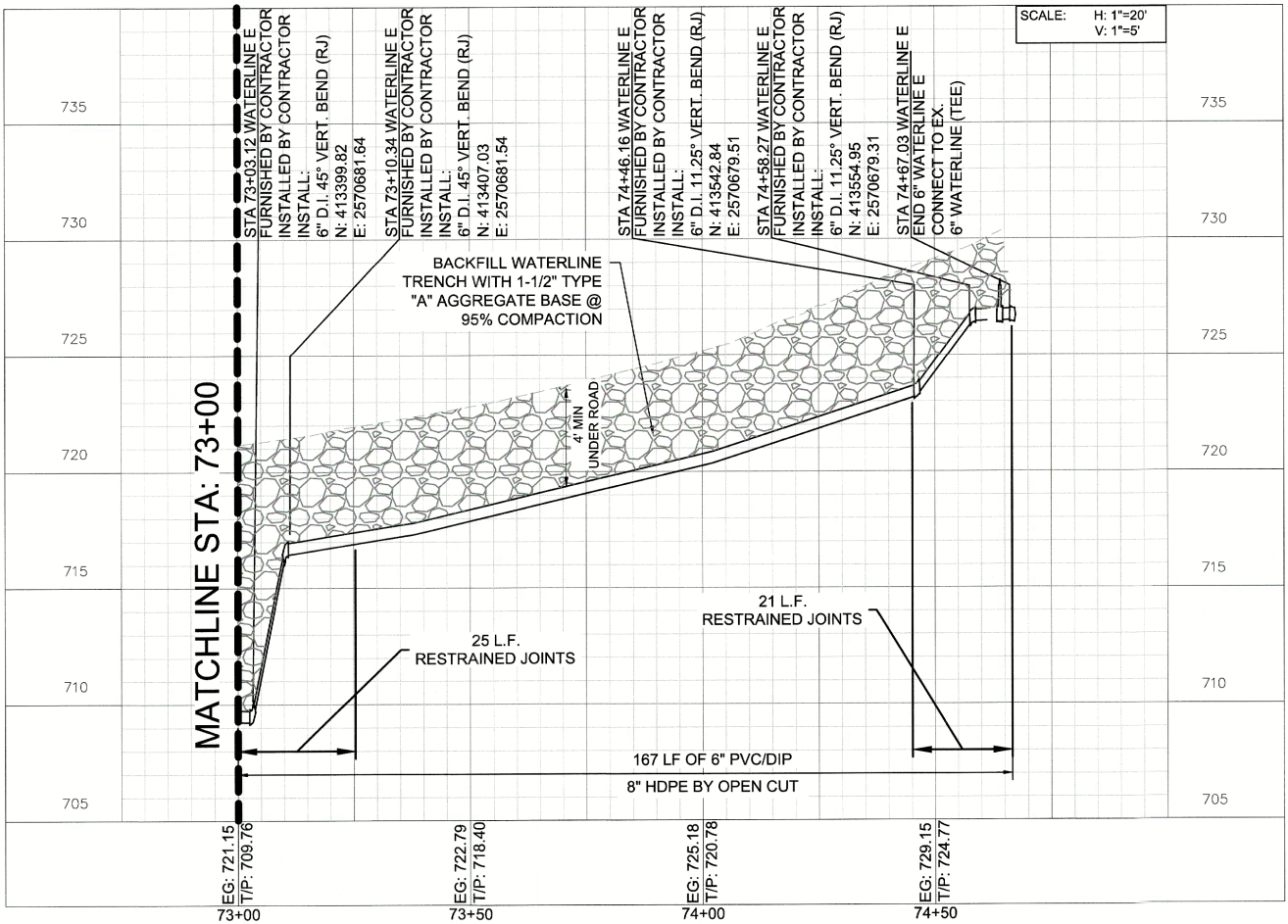
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
OK License No. 2740 Exp.
Date 06/30/2027
(918) 209-3191

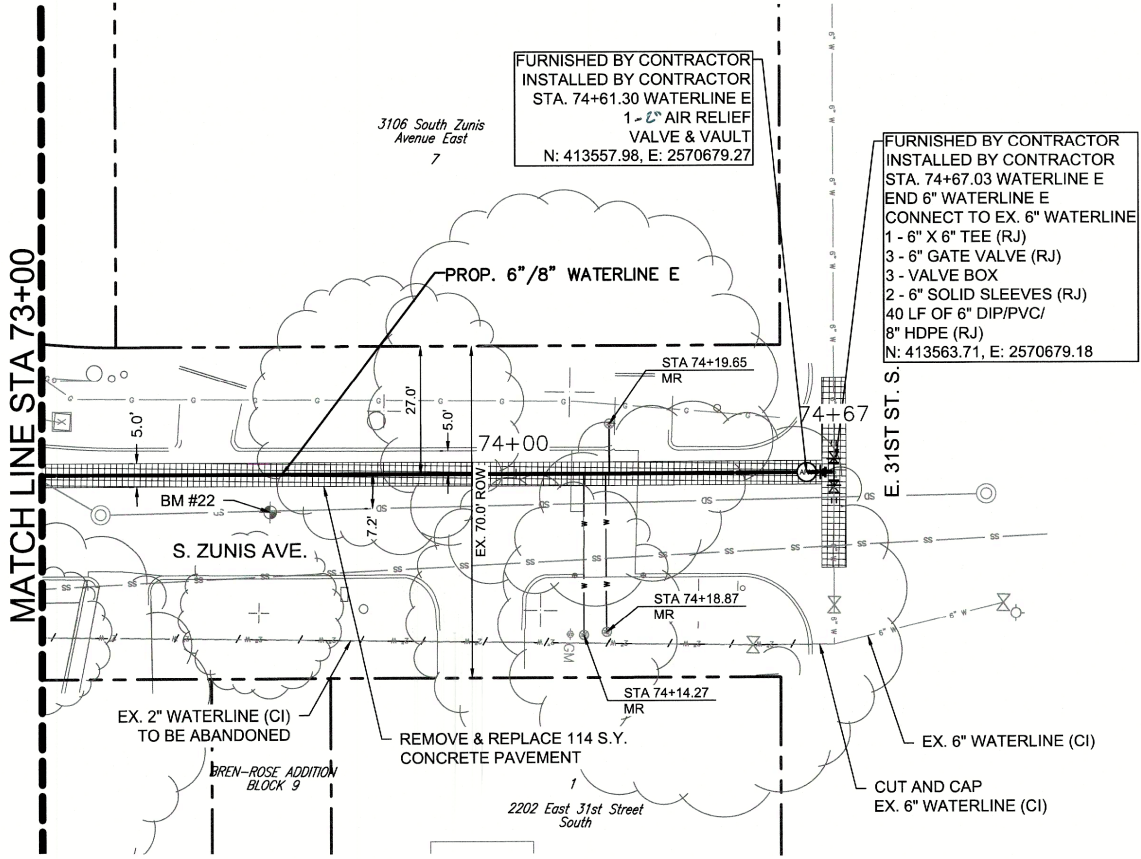
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	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL:	RECOMMENDED:			
1"=5'	DESIGN MANAGER			

DRAWING:	C-WATERLINE E.DWG
ATLAS PAGE NO:	95
SHEET	26 OF 32





WATERLINE E PROFILE



WATERLINE E PLAN

SERVICE CONNECTIONS

NO.	SERVICE TYPE
1	3/4" WATER SERVICE CONNECTION (LONG)
1	3/4" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)

LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



REVISION	BY	DATE

WATERLINE E STA 73+00 TO END

PROJECT NO. TMUA-W 25-03 *C2*

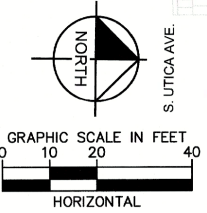
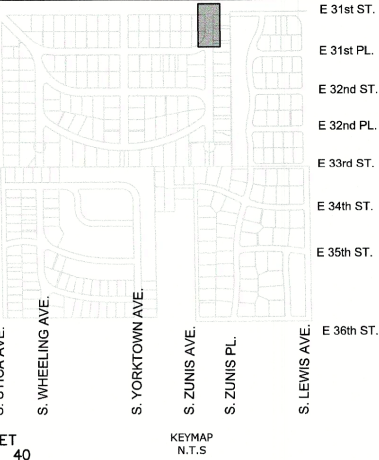
2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

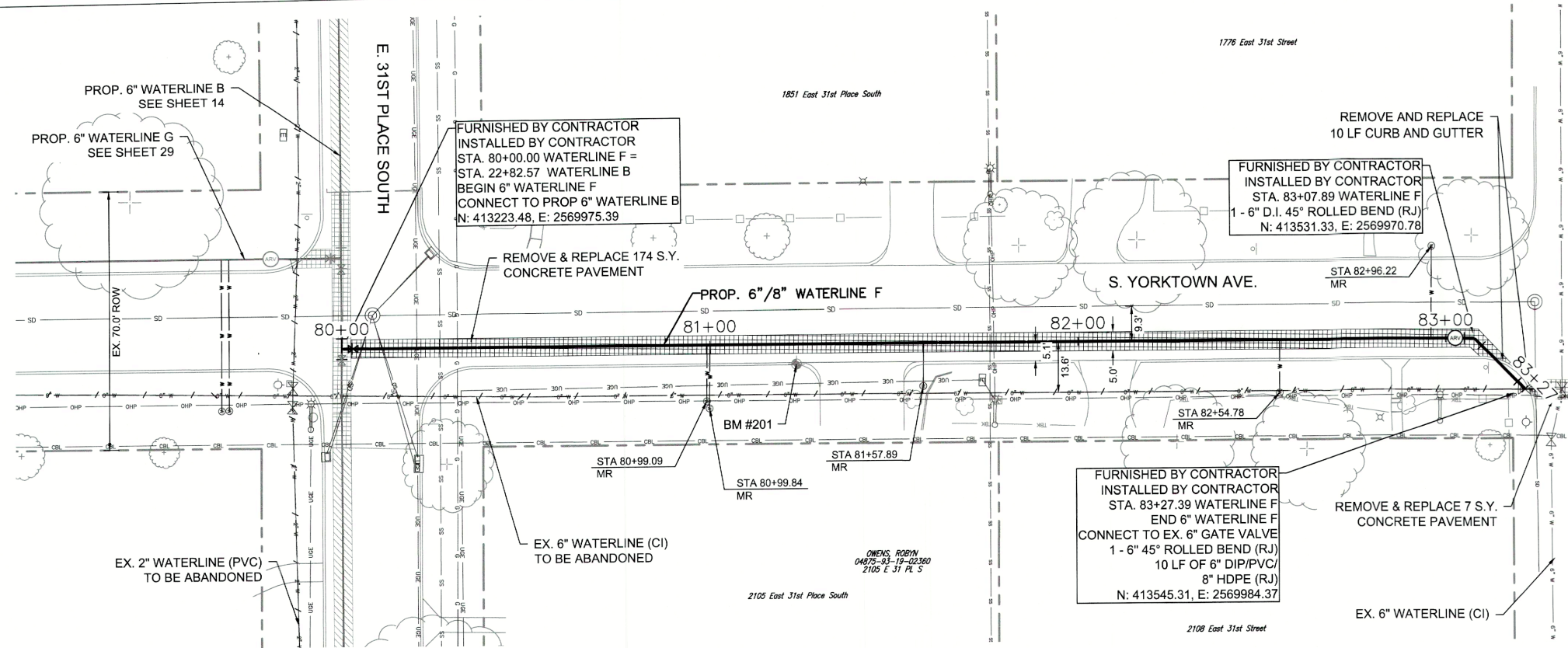
PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE: 1"=20'	DRAWN DESIGNED SURVEY	OCB RWS DB	5/2/25 5/2/25 5/2/25	APPROVED:
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL: 1"=20'	LEAD ENGR.:			
VERTICAL: 1"=5'	FIELD MNGR.:			
	RECOMMENDED:			
	DESIGN MANAGER			

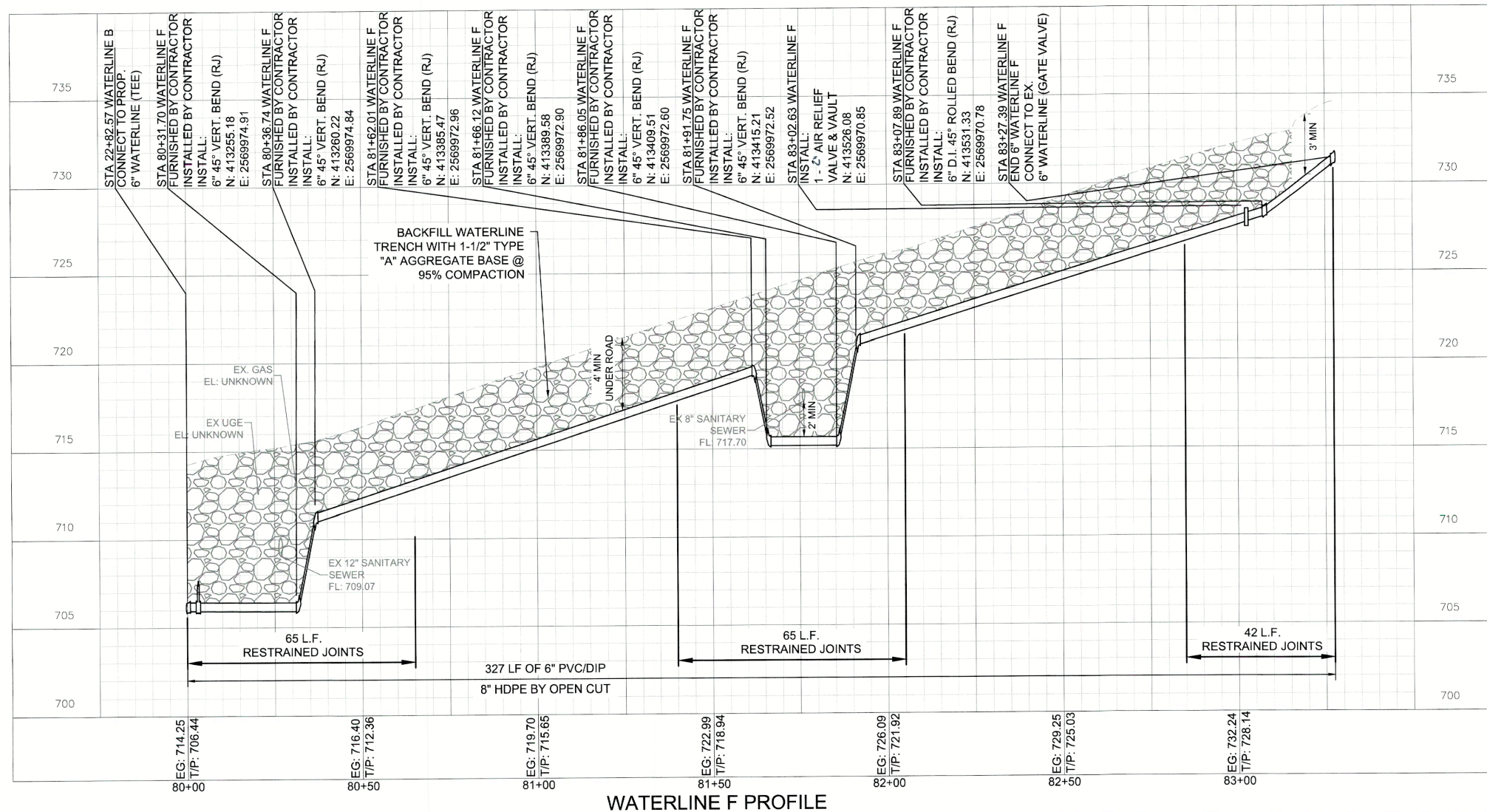
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ATLAS PAGE NO:	95
SHEET 27 OF 32	



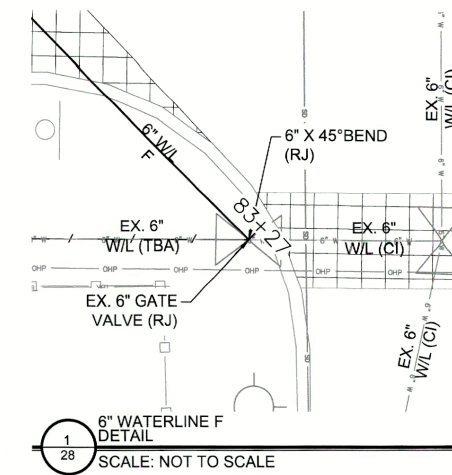
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WATERLINE F PLAN

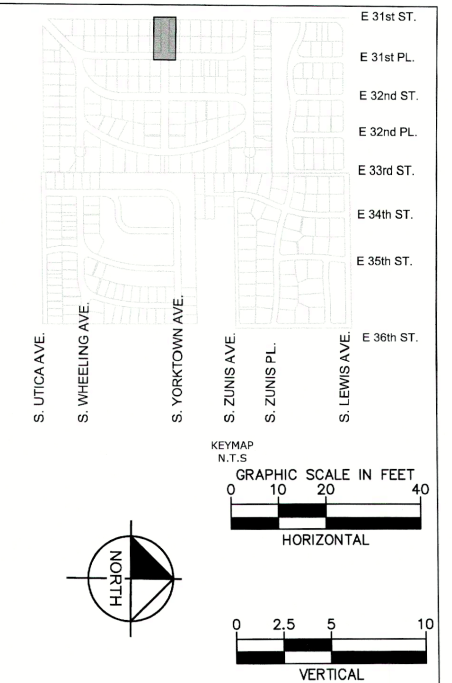


WATERLINE F PROFILE

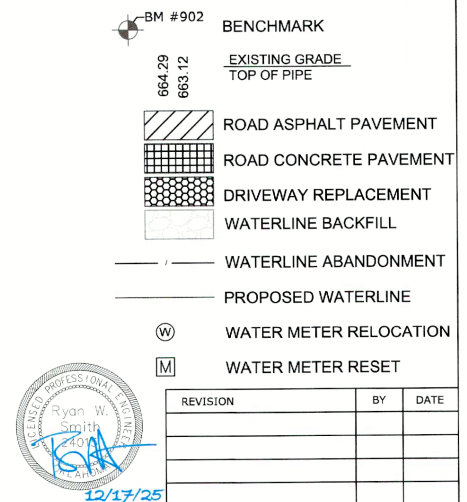


SERVICE CONNECTIONS

NO.	SERVICE TYPE
0	¾" WATER SERVICE CONNECTION (LONG)
3	¾" WATER SERVICE CONNECTION (SHORT)
1	1" WATER SERVICE CONNECTION (LONG)
1	1" WATER SERVICE CONNECTION (SHORT)



LEGEND



WATERLINE F STA 80+00 TO END

PROJECT NO. TMUA-W 25-03

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

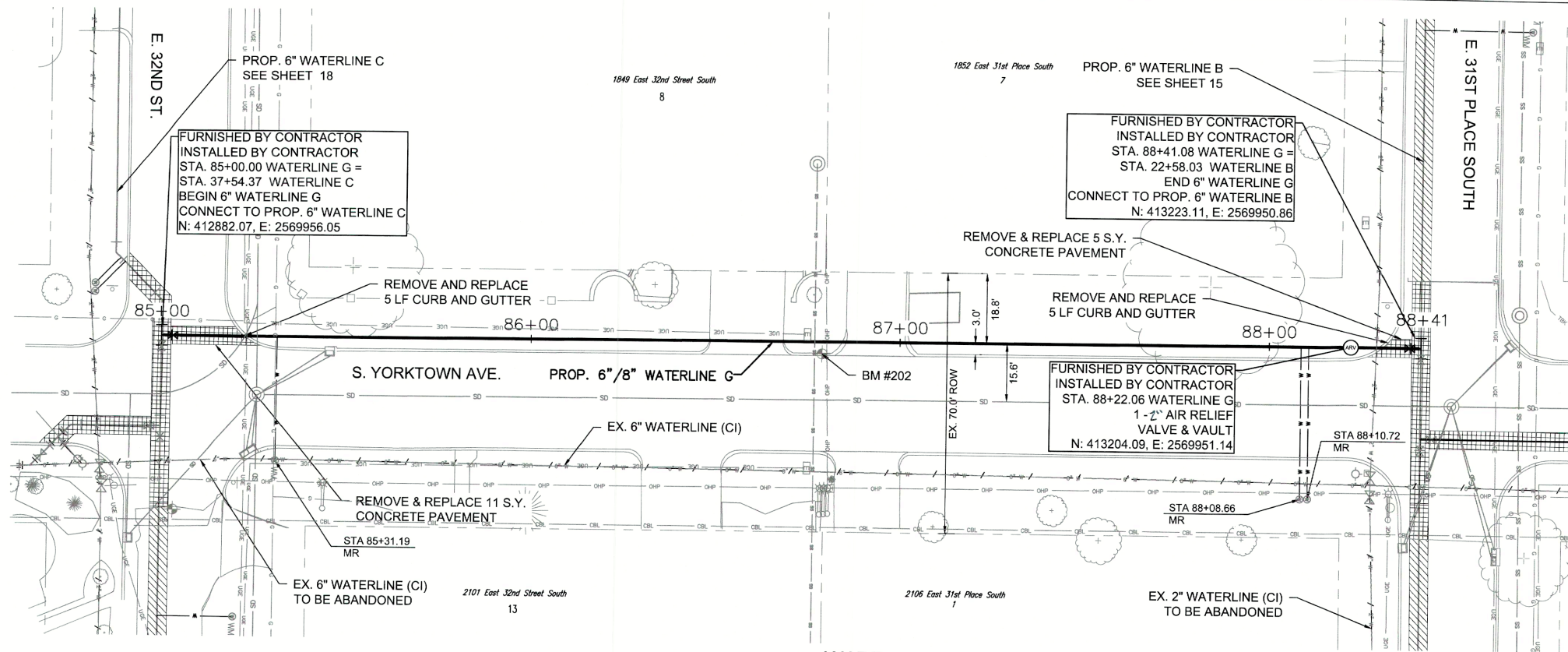
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

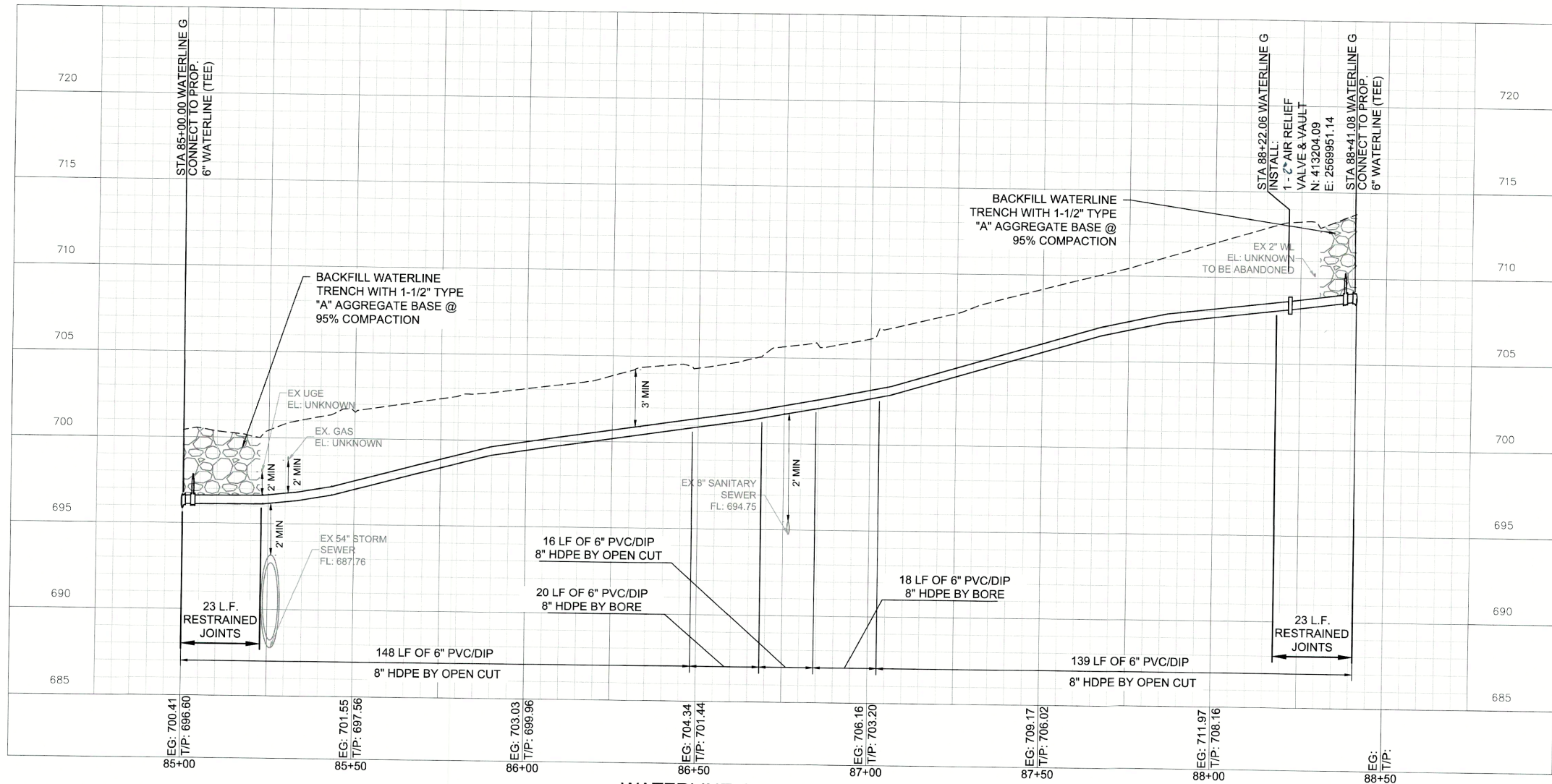
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	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL:	RECOMMENDED:			
1"=5'	DESIGN MANAGER:			
DRAWING:	C-WATERLINE F.DWG			
ATLAS PAGE NO:	95			
				SHEET 28 OF 32



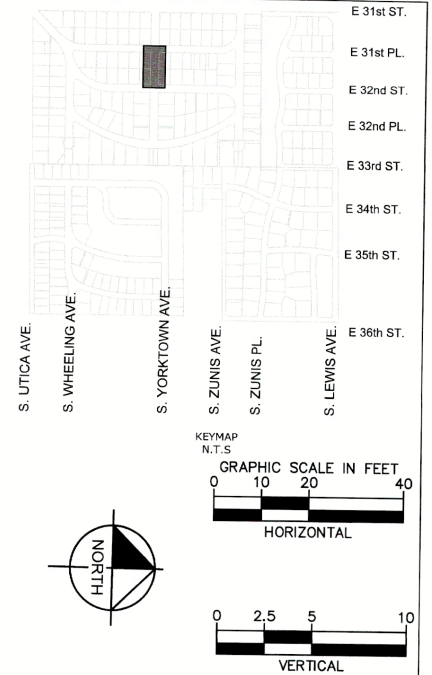
CITY OF TULSA PROJECT NO. TMUA-W 25-03



WATERLINE G PLAN



WATERLINE G PROFILE



SERVICE CONNECTIONS

NO.	SERVICE TYPE
1	¾" WATER SERVICE CONNECTION (LONG)
0	¾" WATER SERVICE CONNECTION (SHORT)
2	1" WATER SERVICE CONNECTION (LONG)

LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE G STA 75+00 TO END

PROJECT NO. TMUA-W 25-03 *C2*

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:

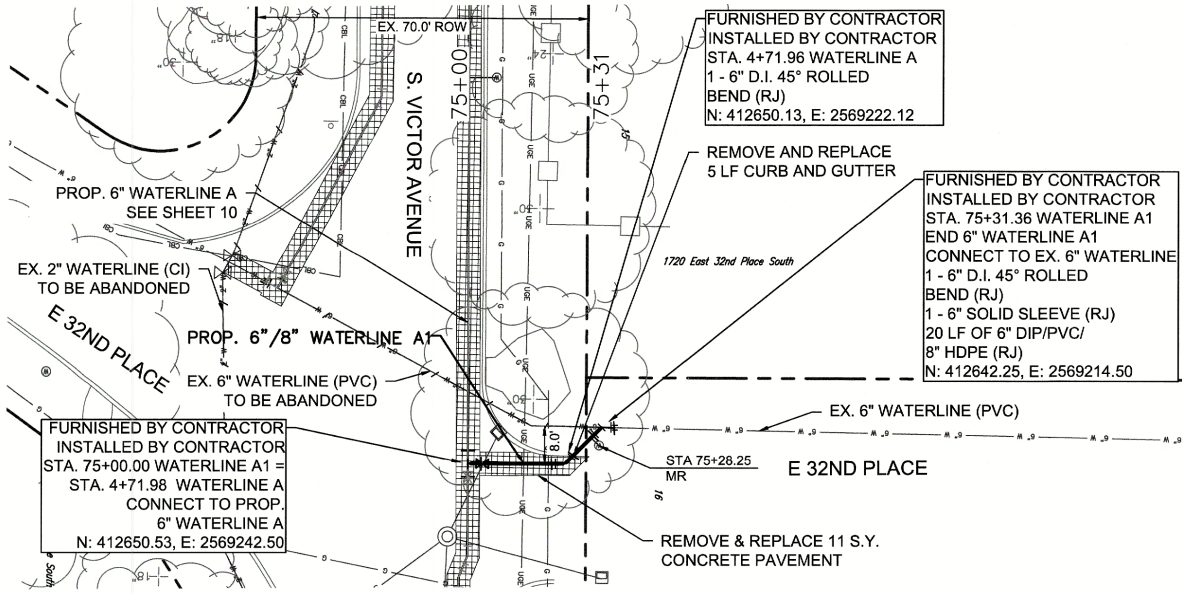
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

Kimley»Horn

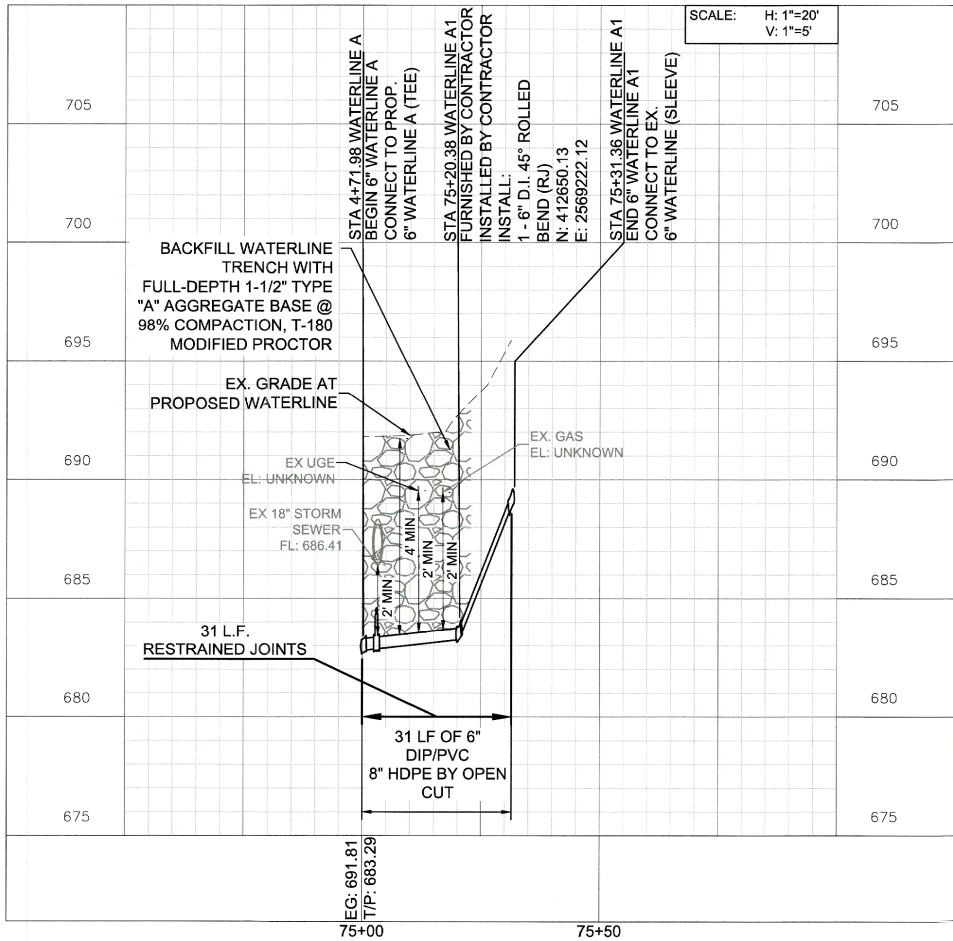
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	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	1"=20'	LEAD ENGR.:	<i>Cow 2/26</i>	
VERTICAL	1"=5'	FIELD MNGR.:	<i>John 3/26</i>	
		RECOMMENDED DESIGN MANAGER	<i>John 3/26</i>	
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ATLAS PAGE NO:	95			
SHEET 29 OF 32				

CITY OF TULSA PROJECT NO. TWUA-W-4

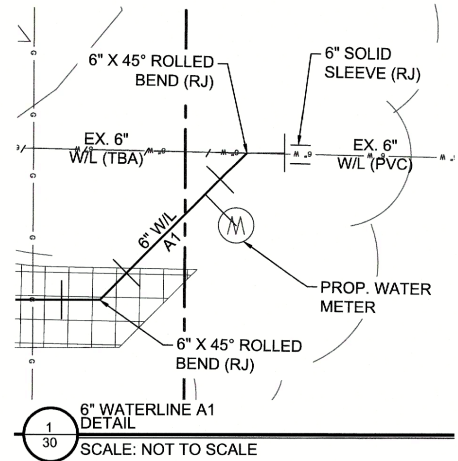




WATERLINE A1 PLAN

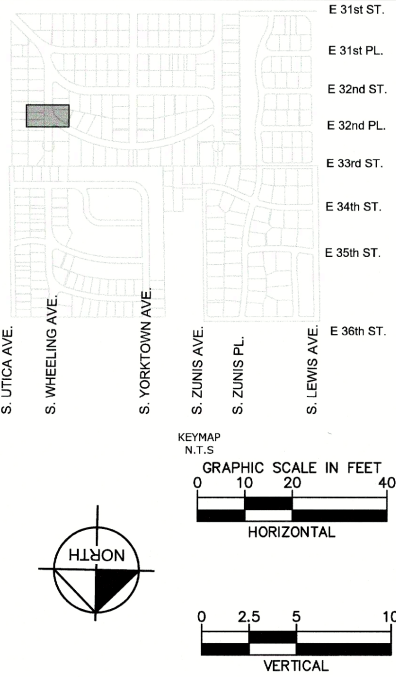


WATERLINE A1 PROFILE



SERVICE CONNECTIONS

NO.	SERVICE TYPE
0	¾\"
1	¾\"



LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- WATER METER RELOCATION
- WATER METER RESET



WATERLINE A1 STA 75+00 TO END

PROJECT NO. TMUA-W 25-03 *cz*

2\"

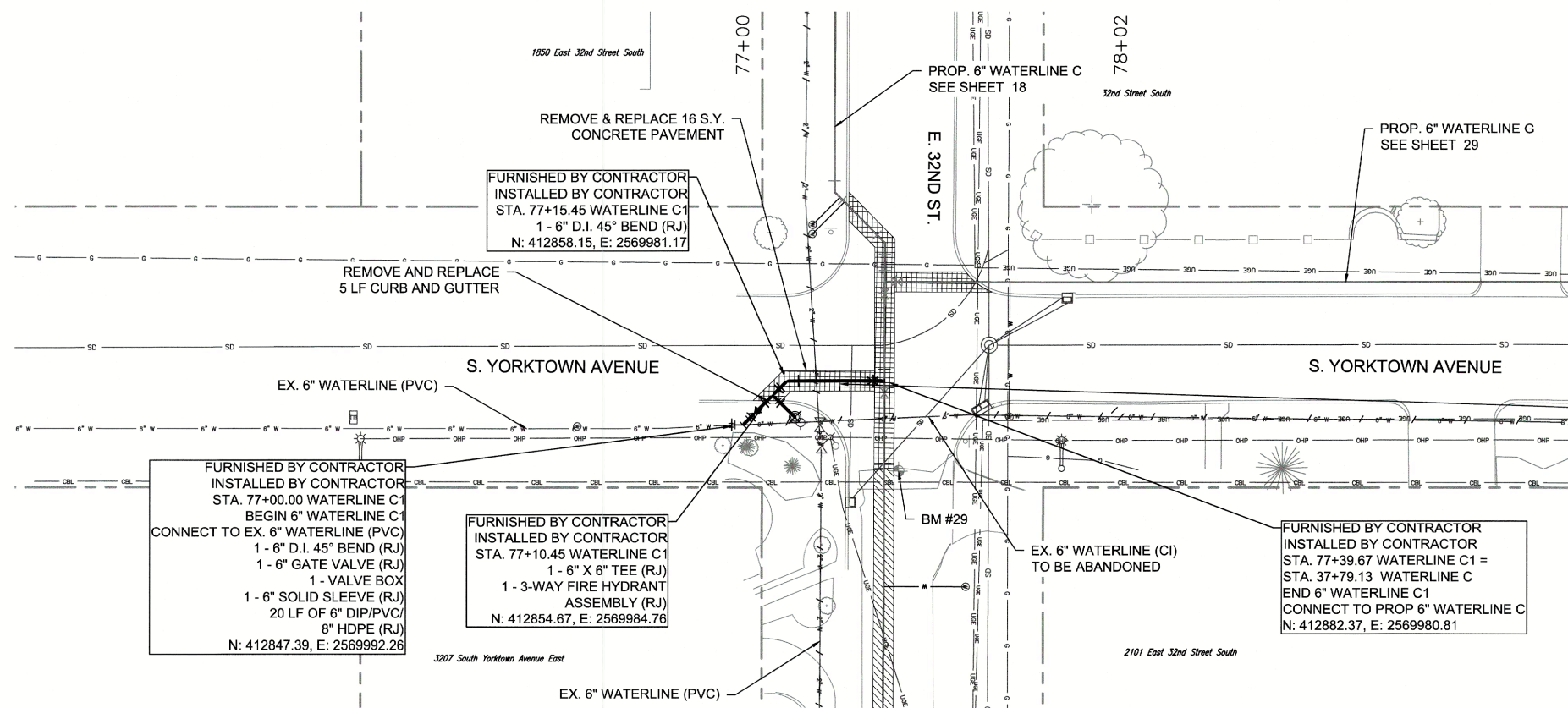
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 05/30/2027 (918) 209-3191

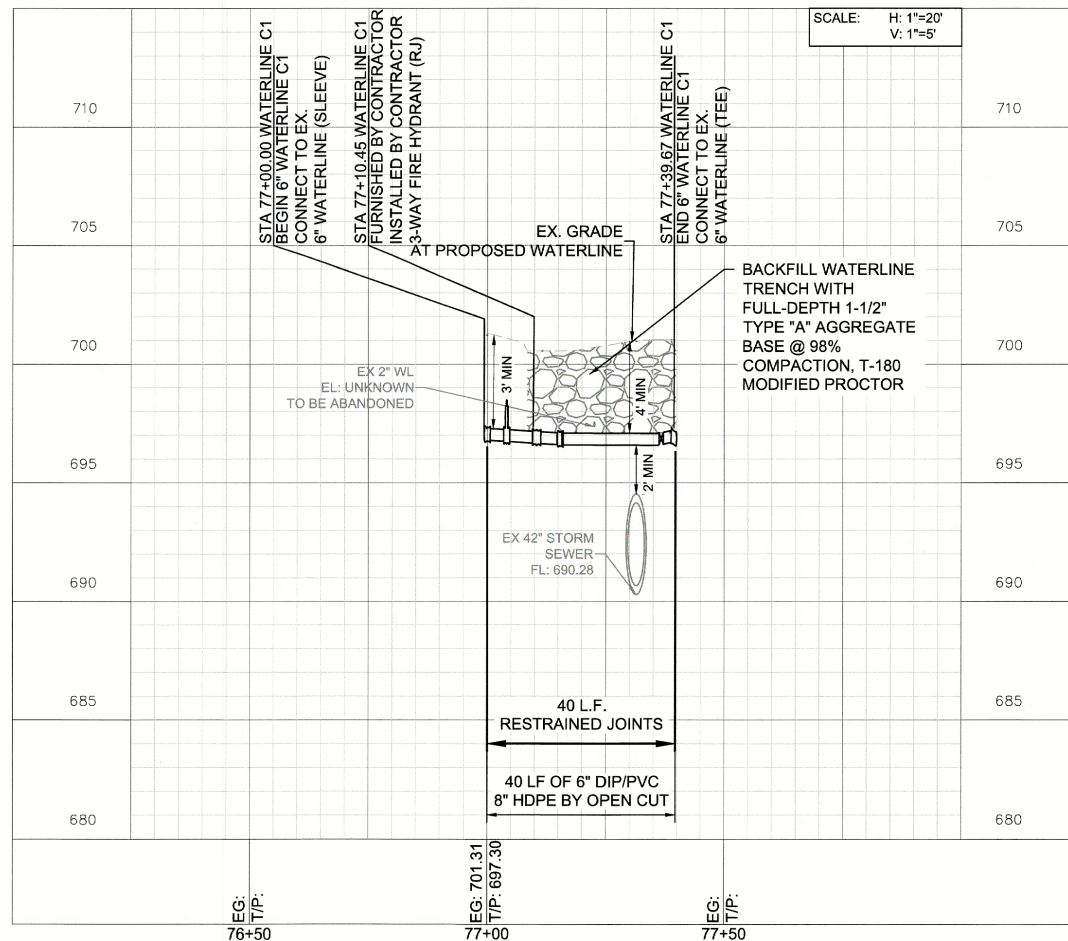
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PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:	<i>CEW 2/26</i>		
1\"	FIELD MNGR.:	<i>Tom 8/26</i>		
VERTICAL	RECOMMENDED			
1\"	DESIGN MANAGER	<i>Thomas G. My</i>		

DRAWING:	C-WATERLINE A-1.DWG
ATLAS PAGE NO:	95
SHEET	30 OF 32

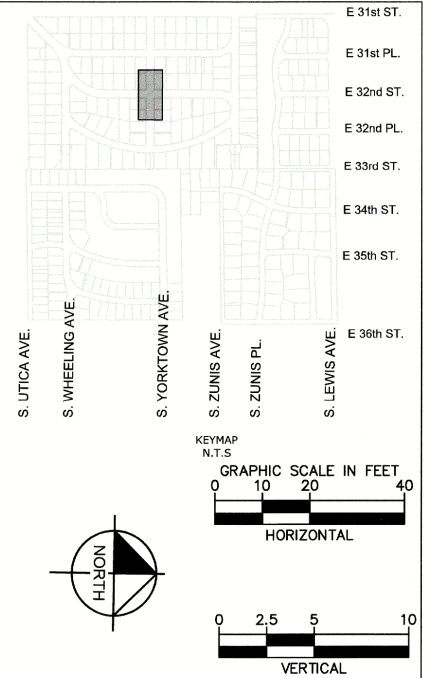
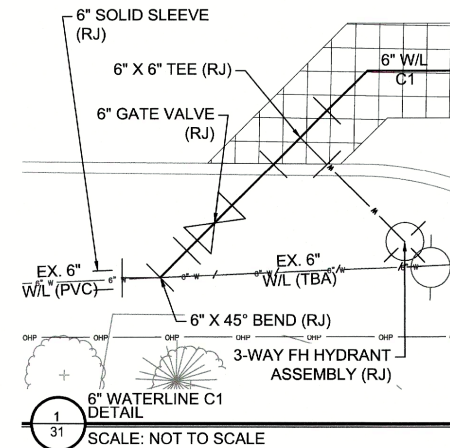




WATERLINE C1 PLAN



WATERLINE C1 PROFILE



LEGEND

- BM #902 BENCHMARK
- 664.29 EXISTING GRADE
- 663.12 TOP OF PIPE
- ROAD ASPHALT PAVEMENT
- ROAD CONCRETE PAVEMENT
- DRIVEWAY REPLACEMENT
- WATERLINE BACKFILL
- WATERLINE ABANDONMENT
- PROPOSED WATERLINE
- (W) WATER METER RELOCATION
- (M) WATER METER RESET



REVISION	BY	DATE

WATERLINE C1 STA 77+00 TO END

PROJECT NO. TMUA-W 25-03 C2

2" WATERLINE REPLACEMENT -
VICINITY OF 31ST TO 41ST STREETS AND
LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

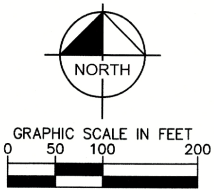
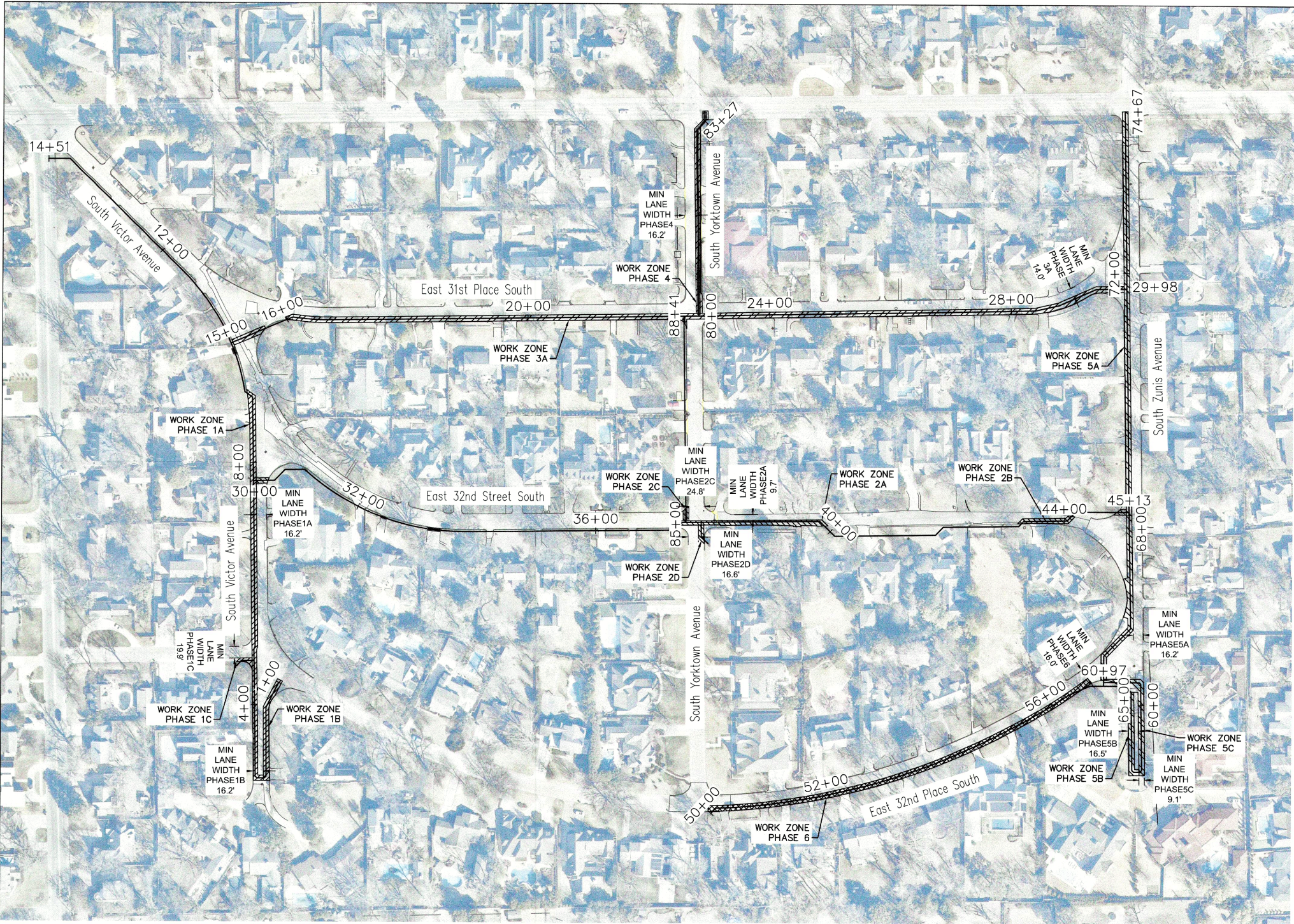
PLANS AND ESTIMATES PREPARED BY: 1437 South Boulder
Avenue, Suite 930, Tulsa,
OK 74119
Kimley»Horn OK License No. 2740 Exp.
Date 05/30/2027
(918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:			
VERTICAL	DESIGN MANAGER			
1"=5'				

DRAWING: C-WATERLINE C-1.DWG	ATLAS PAGE NO: 95	SHEET 31 OF 32
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PLOT DATE: 12/17/2025 1:42 PM, DRAWING NAME: TRAFFIC CONTROL PLAN.DWG



LEGEND

	WORK ZONE PHASE 1
	WORK ZONE PHASE 2
	WORK ZONE PHASE 3
	WORK ZONE PHASE 4
	WORK ZONE PHASE 5



REVISION	BY	DATE

PHASE 1 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

PHASE 1A:
INSTALL WATERLINE 2+66 TO 14+51
WORK ZONE - 2+66 TO 9+18

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S VICTOR AV. MAINTAIN 1 LANE OF ACCESS FOR EAST / WEST (2 WAY) TRAFFIC AT INTERSECTION OF S VICTOR AV AND E 32ND PL.

PHASE 1B:
INSTALL WATERLINE 1+00 TO 2+66
WORK ZONE - 1+00 TO 2+66

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S VICTOR AV. MAINTAIN 1 LANE OF ACCESS FOR EAST / WEST (2 WAY) TRAFFIC AT INTERSECTION OF S VICTOR AV AND E 32ND PL.

PHASE 1C:
INSTALL WATERLINE 14+51 TO 75+32
WORK ZONE - 75+00 TO 75+32

MAINTAIN 1 LANE OF EAST / WEST (2 WAY) ACCESS AT INTERSECTION OF E 32ND PL AND S VICTOR AV.

PHASE 2 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

PHASE 2A:
INSTALL WATERLINE 30+00 TO 39+87, & 44+16 TO 45+13
WORK ZONE - 37+32 TO 39+87

MAINTAIN 1 LANE OF EAST / WEST (2 WAY) ACCESS ON E 32ND ST. MAINTAIN 1 LANE OF ACCESS FOR NORTH / SOUTH (2 WAY) TRAFFIC AT INTERSECTIONS OF S VICTOR AV AND E 32ND ST, S YORKTOWN AV AND E 32ND ST, AND S ZUNIS AV AND E 32ND ST.

PHASE 2B:
INSTALL WATERLINE 37+32 TO 44+16
WORK ZONE - 37+32 TO 44+16

CLOSE ROAD TO THROUGH TRAFFIC, LOCAL ACCESS ONLY.

PHASE 3 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

PHASE 3A:
INSTALL WATERLINE 15+00 TO 29+98, & 88+20 TO 88+41
WORK ZONE 1 - 15+03 TO 15+62
WORK ZONE 2 - 15+96 TO 29+98
WORK ZONE 3 - 88+20 TO 88+41

MAINTAIN 1 LANE OF EAST / WEST (2 WAY) ACCESS ON E 31ST PL. 1 LANE OF NORTH / SOUTH (2 WAY) TRAFFIC AT INTERSECTIONS OF S VICTOR AV AND S ZUNIS AV, AND 2 LANES OF NORTH / SOUTH TRAFFIC ON S YORKTOWN AV.

PHASE 3B:
INSTALL WATERLINE 77+00 TO 78+03
WORK ZONE - 77+96 TO 77+09

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S YORKTOWN AV AND 1 LANE OF EAST / WEST (2 WAY) ACCESS AT INTERSECTION OF S YORKTOWN AV AND E 31ST PL.

PHASE 4 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

PHASE 4:
INSTALL WATERLINE 80+00 TO 83+27
WORK ZONE - 80+00 TO 83+27

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S YORKTOWN AV.

PHASE 5 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

PHASE 5A:
INSTALL WATERLINE 65+00 TO 74+67
WORK ZONE - 65+09 TO 74+67

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S ZUNIS AV, 1 LANE OF EAST / WEST (2 WAY) ACCESS AT THE INTERSECTIONS OF S ZUNIS AV AND E 31ST PL, S ZUNIS AV AND E 32ND ST, AND S ZUNIS AV AND 32ND PL.

PHASE 5B:
INSTALL WATERLINE 56+94 TO 58+87
WORK ZONE - 57+21 TO 58+87

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S ZUNIS AV.

PHASE 5C:
INSTALL WATERLINE 58+87 TO 60+97
WORK ZONE - 58+86 TO 60+80

MAINTAIN 1 LANE OF NORTH / SOUTH (2 WAY) ACCESS ON S ZUNIS AV.

PHASE 6 NOTES

WORK ZONE CONSISTS OF 5' PATCH CENTERED ON WATERLINE, AND 2' BUFFER TO DRIVING LANE(S).

INSTALL WATERLINE 50+00 TO 56+95
WORK ZONE - 50+04 TO 56+74

MAINTAIN 1 LANE OF EAST / WEST (2 WAY) ACCESS ON E 32ND PL.

TRAFFIC CONTROL PLAN

PROJECT NO. TMUA-W 25-03 *CZ*

2" WATERLINE REPLACEMENT - VICINITY OF 31ST TO 41ST STREETS AND LEWIS TO WHEELING AVENUES,

CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT

PLANS AND ESTIMATES PREPARED BY:
Kimley»Horn
1437 South Boulder Avenue, Suite 930, Tulsa, OK 74119
OK License No. 2740 Exp. Date 06/30/2027 (918) 209-3191

PLAN SCALE:	DRAWN	OCB	5/2/25	APPROVED:
1"=20'	DESIGNED	RWS	5/2/25	
	SURVEY	DB	5/2/25	
PROFILE SCALES:	PROJ MNGR.:			
HORIZONTAL:	LEAD ENGR.:			
1"=20'	FIELD MNGR.:	<i>John B. Mc</i>		
VERTICAL	RECOMMENDED:	<i>John B. Mc</i>		
1"=5'	DESIGN MANAGER			

DRAWING: TRAFFIC CONTROL PLAN.DWG

ATLAS PAGE NO: 95

SHEET 32 OF 32

CITY OF TULSA PROJECT NO. TMUA-W 25-03