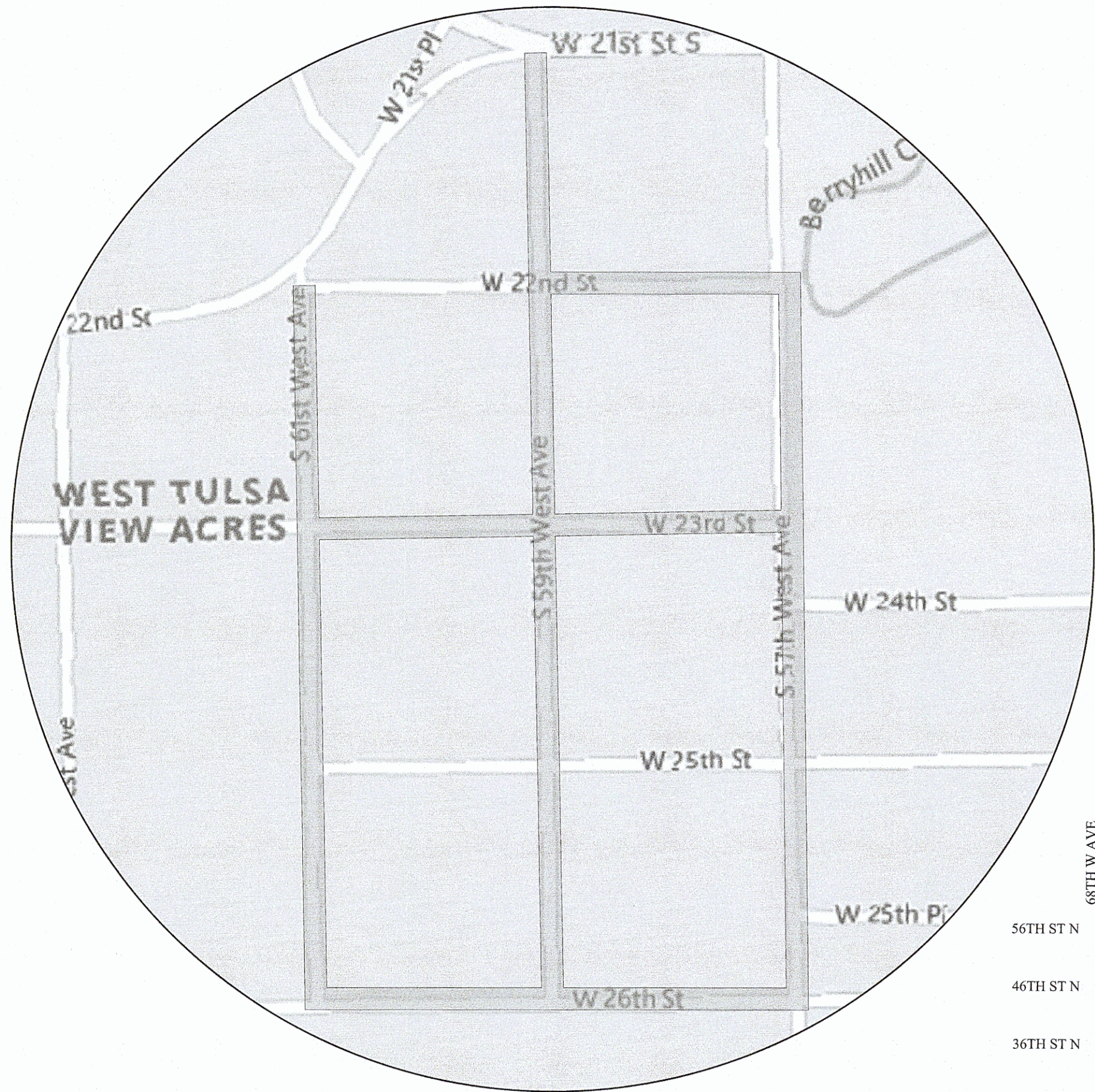


PROJECT VICINITY MAP



UTILITY COORDINATION INFORMATION	
TULSA ENGINEERING SERVICES DEPARTMENT	
COT UTILITY COORDINATION	918-596-9245
WATER DESIGN	596-9566
WASTEWATER DESIGN	596-9564
TRANSPORTATION DESIGN	596-9636
TRAFFIC ENGINEERING DESIGN	596-9741
STORMWATER DESIGN	596-9498
OKLAHOMA NATURAL GAS CO.	800-664-5463
ONEOK	918-588-7294
COX COMMUNICATIONS	918-806-6000
AEP/PSO	888-216-3523
MITA	830-0024
AT&T EMERGENCY	800-288-2020
VERIZON	888-294-6804
WINDSTREAM	800-347-1991

SURVEY DATUM:
HORIZONTAL - OKLAHOMA STATE PLANE COORDINATE (NAD 1983)
VERTICAL - (NAVD 1988)

CURRENT CITY OF TULSA STANDARD SPECIFICATIONS AND STANDARD DETAILS GOVERN. ALL OTHER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY THE CITY OF TULSA.

THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ) REQUIEIMENTS.

ENTIRE PROJECT IS WITHIN CORPORATE LIMITS OF CITY OF TULSA (COT).

CONSTRUCTION PLANS FOR

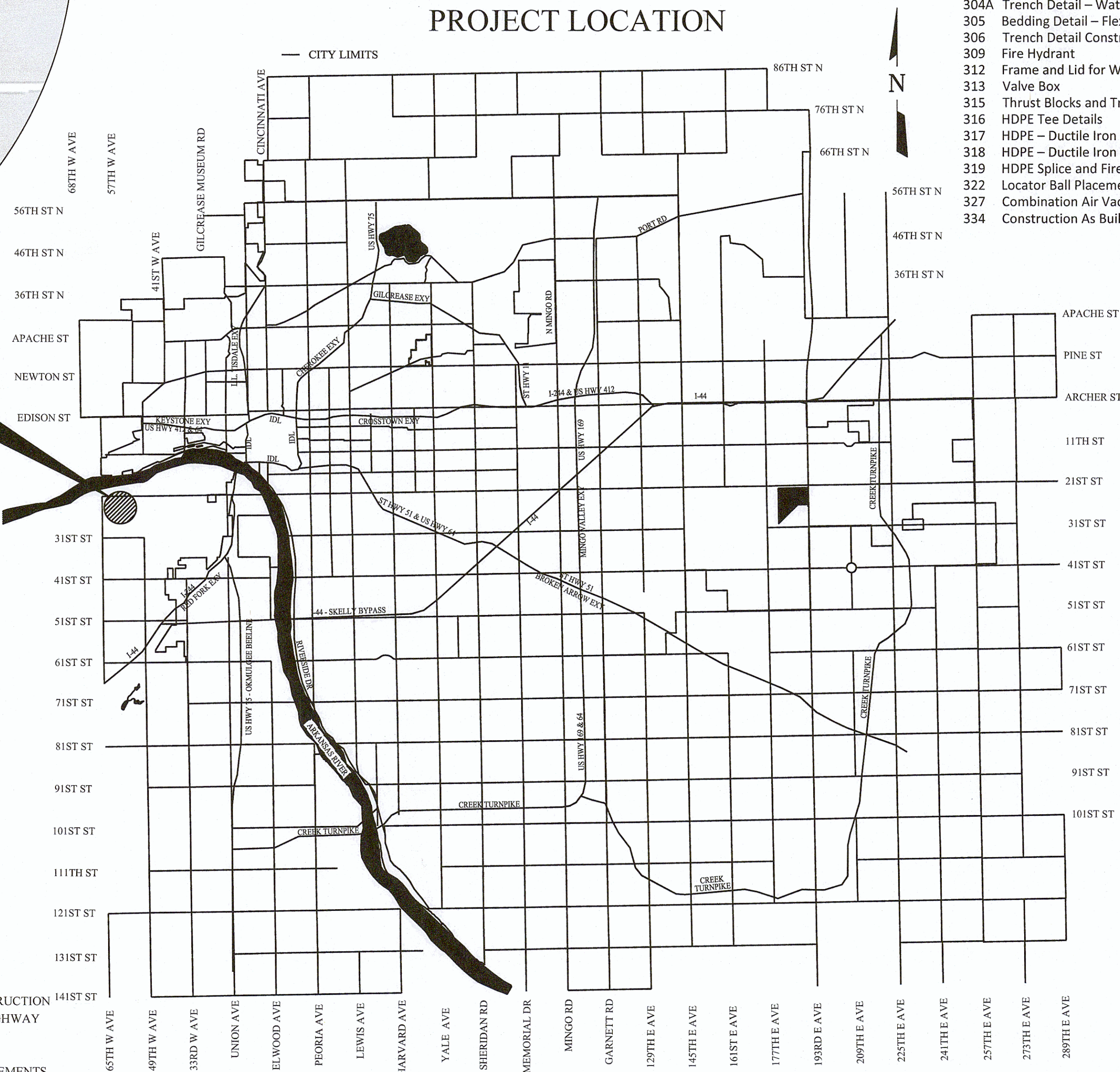
BERRYHILL WATER LINE REPLACEMENT

PROJECT NO. TMUA-W_21-02 TO#12

WATER AND SEWER DEPARTMENT
CITY OF TULSA, OKLAHOMA

BID ADVERTISE DATE APRIL 2025

PROJECT LOCATION

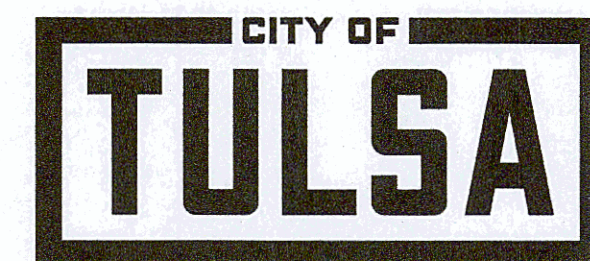


CITY OF TULSA STANDARD DETAILS

- 102 Project Sign
- 304 Bedding Detail - Rigid Pipe
- 304A Trench Detail - Waterline
- 305 Bedding Detail - Flexible Pipe
- 306 Trench Detail Construction Adjacent to Roadway
- 309 Fire Hydrant
- 312 Frame and Lid for Water Vaults
- 313 Valve Box
- 315 Thrust Blocks and Trench Conditions
- 316 HDPE Tee Details
- 317 HDPE - Ductile Iron Fitting Details 1 of 2
- 318 HDPE - Ductile Iron Fitting Details 2 of 2
- 319 HDPE Splice and Fire Hydrant Details
- 322 Locator Ball Placement Detail
- 327 Combination Air Vacuum/Relief Valve Vault for 2" ARV Less Than 5 lbs. in Weight
- 334 Construction As Built

CITY OF TULSA STANDARD DETAILS CONT.

- 415 Clay Dam
- 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 (AquaPEX Blue)
- 503 Standard Meter Settings for 1-1/2" Water Service
- 505 Meter Can with Rim and Lid 3/4", 1", and 1-1/2" Water Meter Can Installation
- 506 Meter Can with Rim and Lid 1-1/2" Water Meter Installation
- 507 Meter Can with Rim and Lid 2" Water Meter Installation
- 608A Street Name Signs
- 608B Traffic Signs
- 702 Residential Concrete Driveway Asphalt Street
- 704 Residential Asphalt Driveway Asphalt Street
- 713 Pavement Removal and Replacement
- 714 Pavement Cuts
- 725 Standard Pavement Patch and Repair
- 730 Standard Asphalt Pavement Cut and Repair
- 731 Standard Concrete Pavement Cut and Repair
- 733 Standard Pavement Rehabilitation for Utility Construction
- 793 Residential Drive Asphalt or Concrete No Curb



PLANS PREPARED BY
FREESE AND NICHOLS, LLC.
5100 E. SKELLY DRIVE, SUITE 602
P: (539) 444-8677
F: (817) 735-7491
CERTIFICATION OF AUTHORIZATION: CA#511
EXPIRATION DATE: 6/30/2026

APPROVED BY

APPROVED:

John M. B.

DIRECTOR, WATER AND SEWER DEPT.

6/6/2025

DATE

ENGINEER'S CERTIFICATION

Brogan Tyler

BROGAN TYLER, PE #35333

6-2-2025

DATE

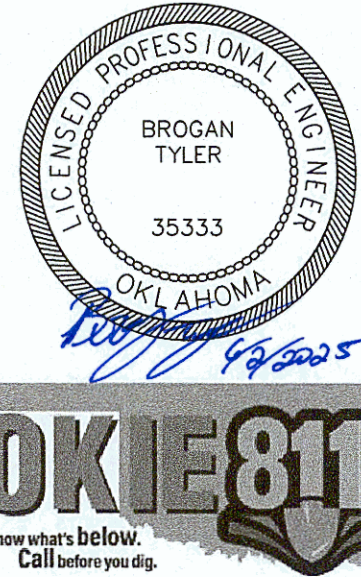
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ITEM	DOT	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	TOTAL QUANTITY	SUMMARY OF QUANTITIES		UNIT	GENERAL	LINE 'A'					LINE 'B'					LINE 'C'																	
						QUANTITY	UNIT			SHT. 31	SHT. 32	SHT. 33	SHT. 34	SHT. 35	SHT. 36	SHT. 37	SHT. 38	SHT. 39	SHT. 40	SHT. 41	SHT. 42	SHT. 43	SHT. 44	SHT. 45													
1		COT 102	PROJECT SIGN (CITY OF TULSA)		1	1	EA	1																													
2		COT 301	RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE	4, 5, 6, 7, 22, 34	3960	2470	SY		210	191.5	147	181	20	222.5	197.5	237	140	191.5	60	110	175	194.5	192.5														
3		COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	5640	3532	CY		285	256	220	200	36	295	295	390	190	300	75	175	240	310	265														
4		COT 303	MOBILIZATION		1	1	EA	1																													
5		COT 315	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	13, 17	19	14	EA		1	5		1					1	1		2	1	2															
6		COT 317	2 INCH AIR VALVE ASSEMBLY		1	1	EA															1															
7		COT 317	3-WAY FIRE HYDRANT, IN PLACE		12	8	EA		1	1		1		1	1	1				1	1																
8		COT 317	12 INCH GATE VALVE (RJ)	8	2	2	EA							1					1																		
9		COT 318	VALVE BOX	21	21	13	EA		1	1	1			2	1	1	1	1		2	1		1														
10		COT 325	SODDING AND SEEDING	23	7490	4370	SY		400	335	295	365	50	415	385	290	275	325	105	180	345	250	355														
11		COT 326	STREET WASH DOWN		9880	6650	LF		500	500	500	500	40	500	500	500	500	500	120	500	500	500	490														
12		COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (ASPHALT)	31	1040	835	SY		40	105	30	50	30	60	90	100	20	40		85	20	80	85														
13		COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE)	30	80	80	SY				10				15			25	15		15																
14		COT 329	SAWCUT		4640	3970	LF		240	465	175	230	100	250	405	355	90	270	70	390	170	465	295														
15		COT 333	EXISTING WATERLINE ABANDONMENT	5, 9	8988	6815	LF		500	500	515	535	35	500	500	500	500	500	120	600	600	600	310														
16		COT 334	CONSTRUCTION AS-BUILT	24, 25, 27	1	1	EA	1																													
17		COT 335	CONTRACTOR QUALITY CONTROL		1	1	LSUM	1																													
18		COT 606	SHEET ALUMINUM SIGNS		154	113	SF				14		20	5	6		6	14		6	14	14	14														
19		COT 606	1 1/2" SQUARE TUBE POST		18	12	LF				2		2					2			2	2	2														
20		COT 606	1 3/4" SQUARE TUBE POST		147	115.5	LF				10.5		21	10.5	10.5		10.5	10.5		10.5	10.5	10.5	10.5														
21		COT 606	2" SQUARE TUBE POST		39	33	LF				3		6	3	3		3	3		3	3	3	3														
22		SPECIAL	OWNER ALLOWANCE	18	150000	150000	ALLOW	150000																													
23		SPECIAL	REMOVAL DRIVEWAY CULVERT		475	325	LF		20					20	20	85	25	40					115														
24	220	SPECIAL	SWPPP DOCUMENTATION AND MANAGEMENT	32, 33, 34, 35	1	1	LSUM	1																													
25	642	SPECIAL	CONSTRUCTION STAKING		1	1	EA	1																													
26		SPECIAL	FENCE REMOVE AND REPLACEMENT OUTSIDE ROW		100	0	LF																														
OPTION 1 - PVC																																					
27		COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1, 2, 3, 8, 9, 11, 27, 28	1958	1710	LF		80	117	206	138		55	105	26	220	117		280	150	111	105														
28		COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14	1, 2, 3, 9, 10, 27, 29	5625	3412	LF		265	330	114	122		194	302	337	209	297	67	209	296	333	337														
29		COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14 (RJ)	1, 2, 3, 8, 9, 10, 27, 29	2387	1603	LF		160	63	180	255	40	261	108	147	71	86	53	16	59	56	48														
30		COT 312	6 INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)		2, 8	7	EA				2			2	1																						
31		COT 312	6 INCH DUCTILE IRON 45 DEGREE BEND (RJ)		2, 8	44	EA		6		2	8		4				2		2			2														
32		COT 312	6 INCH DUCTILE IRON 90 DEGREE BEND (RJ)		2, 8	1	EA													1																	
33		COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)		2, 8	2	EA						1							1																	
34		COT 312	6 INCH X 6 INCH DUCTILE IRON TEE (RJ)		2, 8	19	EA		2	1	1	1		2	1	3	1			1	1	1															
35		COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)		2, 8	2	EA						1						1																		
36		COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)		2, 8	1	EA		1																												
37		COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	56	51	EA		3	6	6	4	1	4	4	3	5	3	1	5	4	2															
38		COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	49	39	EA		3	7	6	5		1	6	8	1	2																			
39		COT 315	3/4 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1																													
40		COT 315	3/4 INCH WATER METER CAN, LID, & RIM		19	14	EA		1	5		1					1	1		2	1	2															
41		COT 315	1 INCH WATER SERVICE LINE CONNECTION (SHORT)	15, 16, 17	1	1	EA	1																													
42		COT 315	1 INCH WATER SERVICE LINE CONNECTION (LONG)	15, 16, 17	1	1	EA	1																													
43		COT 315	1 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1																													
44		COT 315	1 INCH WATER METER CAN, LID, & RIM		1	1	EA	1																													
45		COT 315	2 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	1	1	EA													1																	
46		COT 315	2 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	1	1	EA	1																													
47		COT 315	2 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1																													
48		COT 317																																			

Filename: N:\WTU Sheets\GN-ALL-GN-NOTES.dwg

SUMMARY OF QUANTITIES																
ITEM	ODOT	SPEC. NO.	DESCRIPTION	PAY ITEM NOTE	TOTAL QUANTITY	QUANTITY	UNIT	GENERAL	LINE 'D'		LINE 'E'		LINE 'F'			
			BASE BID						SHT. 46	SHT. 47	SHT. 48	SHT. 49	SHT. 50	SHT. 51	SHT. 52	SHT. 53
1		COT 102	PROJECT SIGN (CITY OF TULSA)		1	1	EA	1								
2		COT 301	RIGHT-OF-WAY CLEARING AND RESTORING, COMPLETE IN PLACE	4, 5, 6, 7, 22, 34	3960	1489	SY		250	52.5	175	226	85	250	250	200
3		COT 302	EXCAVATION AND BACKFILL, UNCLASSIFIED	14	5640	2106	CY		340	80	230	355	165	315	335	286
4		COT 303	MOBILIZATION		1	1	EA	1								
5		COT 315	PRIVATE SERVICE CONNECTION BY LICENSED BONDED PLUMBER	13, 17	19	5	EA		1				2	1	1	
6		COT 317	2 INCH AIR VALVE ASSEMBLY		1	0	EA									
7		COT 317	3-WAY FIRE HYDRANT, IN PLACE		12	4	EA		1	1	1		1			
8		COT 317	12 INCH GATE VALVE (RJ)	8	2	0	EA									
9		COT 318	VALVE BOX	21	21	8	EA		1	1	1	2	1	1	1	
10		COT 325	SODDING AND SEEDING	23	7490	3120	SY		515	85	335	485	210	565	575	350
11		COT 326	STREET WASH DOWN		9880	3225	LF		500	105	500	500	220	500	500	400
12		COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (ASPHALT)	31	1040	205	SY		25	10	65	50	55			
13		COT 329	PAVEMENT, REMOVAL AND REPLACEMENT (CONCRETE)	30	80	0	SY									
14		COT 329	SAWCUT		4640	665	LF		50	50	205	165	195			
15		COT 333	EXISTING WATERLINE ABANDONMENT	5, 9	8988	2173	LF		460	100		310		308	495	500
16		COT 334	CONSTRUCTION AS-BUILT	24, 25, 27	1	1	EA	1								
17		COT 335	CONTRACTOR QUALITY CONTROL		1	1	LSUM	1								
18		COT 606	SHEET ALUMINUM SIGNS		154	14	SF				14					
19		COT 606	1 1/2" SQUARE TUBE POST		18	2	LF				2					
20		COT 606	1 3/4" SQUARE TUBE POST		147	10.5	LF				10.5					
21		COT 606	2" SQUARE TUBE POST		39	0	LF									
22		SPECIAL	OWNER ALLOWANCE	18	150000	150000	ALLOW	150000								
23		SPECIAL	REMOVAL DRIVEWAY CULVERT		475	150	LF		30	15		105				
24	220	SPECIAL	SWPPP DOCUMENTATION AND MANAGEMENT	32, 33, 34, 35	1	1	LSUM	1								
25	642	SPECIAL	CONSTRUCTION STAKING		1	1	EA	1								
26		SPECIAL	FENCE REMOVE AND REPLACEMENT OUTSIDE ROW		100	100	LF			100						
OPTION 1 - PVC																
27		COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1, 2, 3, 8, 9, 11, 27, 28	1958	198	LF				0	150	48			
28		COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14	1, 2, 3, 9, 10, 27, 29	5625	2263	LF		337	434	48	210	377	83	434	340
29		COT 309	6 INCH PVC AWWA C900 CLASS 200 DR-14 (RJ)	1, 2, 3, 8, 9, 10, 27, 29	2387	719	LF		48	71	62	145	75	92	66	160
30		COT 312	6 INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)	2, 8	7	0	EA		0							
31		COT 312	6 INCH DUCTILE IRON 45 DEGREE BEND (RJ)	2, 8	44	14	EA				0	6	4	2	2	
32		COT 312	6 INCH DUCTILE IRON 90 DEGREE BEND (RJ)	2, 8	1	0	EA									
33		COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	2, 8	2	0	EA									
34		COT 312	6 INCH X 6 INCH DUCTILE IRON TEE (RJ)	2, 8	19	2	EA		0	1	1		0			
35		COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	2	0	EA									
36		COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	1	0	EA									
37		COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	56	2	EA		0			0	2			
38		COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	49	4	EA		0			0	1	2	1	
39		COT 315	3/4 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
40		COT 315	3/4 INCH WATER METER CAN, LID, & RIM		19	3	EA		0				0	2	1	
41		COT 315	1 INCH WATER SERVICE LINE CONNECTION (SHORT)	15, 16, 17	1	1	EA	1								
42		COT 315	1 INCH WATER SERVICE LINE CONNECTION (LONG)	15, 16, 17	1	1	EA	1								
43		COT 315	1 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
44		COT 315	1 INCH WATER METER CAN, LID, & RIM		1	1	EA	1								
45		COT 315	2 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	1	0	EA									
46		COT 315	2 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	1	1	EA	1								
47		COT 315	2 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
48		COT 317	6 INCH GATE VALVE (RJ)	8	19	7	EA		0	1	1	1	2	1	1	
49		COT 312	6 INCH DUCTILE IRON TO PVC ADAPTOR (RJ)	2, 8, 12	40	0	EA				0		0			
50		COT 328	6-INCH BORE (UNCASED)		1958	198	LF				0	150	48			
OPTION 2 - DIP																
51		COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED	1, 2, 3, 9, 11, 27, 28	5625	2213	LF		434	48	210	377	83	434	340	287
52		COT 307	6 INCH DIP, CL51 POLYETHYLENE WRAPPED (RJ)	1, 2, 3, 8, 9, 11, 27, 28	4345	1032	LF		71	62	295	123	142	66	160	113
53		COT 312	6 INCH DUCTILE IRON 11-1/4 DEGREE BEND (RJ)	2, 8	7	2	EA		2							
54		COT 312	6 INCH DUCTILE IRON 45 DEGREE BEND (RJ)	2, 8	44	18	EA				6	4	2	2	4	
55		COT 312	6 INCH DUCTILE IRON 90 DEGREE BEND (RJ)	2, 8	1	0	EA									
56		COT 312	12 INCH X 6 INCH DUCTILE IRON TEE (RJ)	2, 8	2	0	EA									
57		COT 312	6 INCH X 6 INCH DUCTILE IRON TEE (RJ)	2, 8	19	4	EA		1	1	1		1			
58		COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	2	0	EA									
59		COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	1	0	EA									
60		COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	56	5	EA		2			2	1			
61		COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	49	10	EA		5			1	2	1	1	
62		COT 315	3/4 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
63		COT 315	3/4 INCH WATER METER CAN, LID, & RIM		19	5	EA		1				2	1	1	
64		COT 315	1 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	1	1	EA	1								
65		COT 315	1 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	1	1	EA	1								
66		COT 315	1 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
67		COT 315	1 INCH WATER METER CAN, LID, & RIM		1	1	EA	1								
68		COT 315	2 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	1	0	EA									
69		COT 315	2 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	1	1	EA	1								
70		COT 315	2 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
71		COT 317	6 INCH GATE VALVE (RJ)	8	19	8	EA		1	1	1	2	1	1	1	
72		COT 328	6-INCH BORE (UNCASED)		1958	248	LF				150	48	50			
OPTION 3 - HDPE																
73		COT 309A	8 INCH HDPE AWWA C906 PE4710 DR-11 (DIPS)	1, 2, 3, 8, 9, 10, 19, 27, 28	9970	3245	LF		505	110	505	500	225	500	500	400
74		COT 312A	8 INCH X 8 INCH HDPE TEE (DIPS)	20	19	4	EA		1	1	1		1			
75		COT 312A	12 INCH X 8 INCH HDPE TEE (DIPS)	20	2	0	EA									
76		COT 312A	8 INCH HDPE 45 DEGREE BEND (DIPS)		44	18	EA				6	4	2	2	4	
77		COT 312A	8 INCH HDPE 90 DEGREE BEND (DIPS)		1	0	EA									
78		COT 312	6 INCH DUCTILE IRON TO HDPE ADAPTOR (RJ)	2, 8, 12	1	0	EA									
79		COT 312	12 INCH DUCTILE IRON TO HDPE ADAPTOR (RJ)	2, 8, 12	4	0	EA									
80		COT 312	12 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	2	0	EA									
81		COT 312	6 INCH DUCTILE IRON SLEEVE (RJ)	2, 8	1	0	EA									
82		COT 315	3/4 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	56	5	EA		2			2	1			
83		COT 315	3/4 INCH WATER SERVICE CONNECTION (LONG)	15, 16, 17	49	10	EA		5			1	2	1	1	
84		COT 315	3/4 INCH WATER SERVICE LINE EXTENSION	15, 16, 17	1	1	LF	1								
85		COT 315	3/4 INCH WATER METER CAN, LID, & RIM		19	5	EA		1				2	1	1	
86		COT 315	1 INCH WATER SERVICE CONNECTION (SHORT)	15, 16, 17	1	1	EA	1								
87		COT 315														

BT 4/2/2025



WATER PAY ITEM NOTES (TYPICAL):

- INFORMATION, INCLUDING ANY TIME EXTENSIONS REQUIRED TO PERFORM THE WORK.

- THE CONTRACTOR SHALL PROCEED WITH THE WORK INCLUDED IN THE ALLOWANCE WITHOUT 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 CONTRACTORS 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 CONTRACTORS 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. MARKER BALLS 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 AND 713 SHALL BE PAID UNDER EXCAVATION AND BACKFILL.
31. AGG BASE AND SUBGRADE, PER CITY STANDARD SPECIFICATIONS AND STANDARD DETAILS 703 - 704 AND 713 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 INFOW 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 ACCORDANCE WITH STORMWATER MANAGEMENT PLAN. ALL COSTS FOR ITEMS A-D ABOVE SHALL BE INCLUDED IN UNIT PRICE BID FOR THIS ITEM.
34. PRICE BID SHALL INCLUDE MAINTENANCE, SEDIMENT REMOVAL, DISPOSAL, AND REMOVAL OF FILTERS AT PROJECT COMPLETION.
35. INCLUDES ## TYPE [X] FILTERS
36. MAILBOXES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH USPS REGULATIONS. CONTINUOUS MAIL SERVICE SHALL BE MAINTAINED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE THE USE OF TEMPORARY MAILBOXES USED DURING CONSTRUCTION WITH THE USPS.
- WATER CONSTRUCTION NOTES:**
34. THE CITY OF TULSA FIELD ENGINEERING DEPARTMENT SHALL INSPECT ALL TRENCHING, BEDDING, PIPE INSTALLATION, BACKFILL AND COMPACTION.
35. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT STANDARD SPECIFICATIONS AND STANDARD DETAILS OF THE CITY OF TULSA PUBLIC WORKS DEPARTMENT.
36. 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.
37. MINIMUM COVER OVER WATER LINES SHALL BE AS NOTED ON PLANS.
38. CONTRACTOR SHALL REPLACE EXISTING GRASS WITH SEED/SOD OF THE SAME TYPE AND VARIETY OR AS NOTED ON PLANS.
39. CONTRACTOR SHALL BORE EXISTING TREES UNDER DRIP LINE, UNLESS DIRECTED OTHERWISE BY ENGINEER.
40. CONTRACTOR SHALL BORE EXISTING DRIVEWAYS, UNLESS DIRECTED OTHERWISE BY ENGINEER.
41. 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.
- D. 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.
- E. 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 ENGINEERING SERVICES AND TRAFFIC OPERATIONS (918-596-9766), FOR SITE SPECIFIC, UNDERGROUND TRAFFIC UTILITY LOCATES.
14. CONSTRUCTION FOR ALL ENGINEERING SERVICES 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.

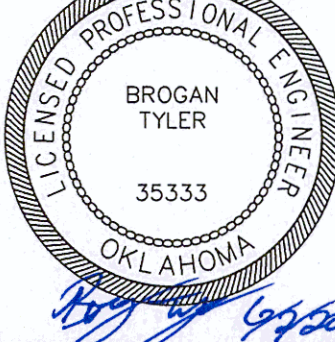
DRAINAGE PAY ITEM NOTES:

D-8:QUICKSET FLOWABLE FILL SHALL BE USED TO BACKFILL AROUND REINFORCED CONCRETE PIPE, AS NEEDED, AT THE DIRECTION OF THE ENGINEER.

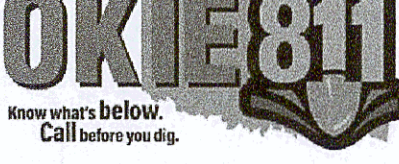
D-12:REINFORCED CONCRETE PIPE TO BE CLASS III. ALL REINFORCED CONCRETE PIPE TO BE SUPPLIED WITH AN IMINI-FLEX JOINT GASKET OR APPROVED EQUAL. MASTIC JOINT SEALANT SHALL NOT BE ALLOWED.

D-13:THIS PAY ITEM SHALL BE COMPLETE IN PLACE AND SHALL INCLUDE ALL PIPE, STANDARD BEDDING MATERIAL AND TRENCH EXCAVATION, JOINT GASKETS AND ALL OTHER INCIDENTALS. NO ADDITIONAL COST WILL BE MADE. PRIOR TO ACCEPTANCE, INTERIOR OF PIPE SHALL BE INSPECTED FOR DEFECTS USING SELF-PROPELLED MOBILE CLOSED-CIRCUIT CAMERA SYSTEM.

D-15:WHERE QUICKSET FLOWABLE FILL IS USED TO BACKFILL AROUND CORRUGATED POLYPROPYLENE PIPE, THE CONTRACTOR SHALL UTILIZE AN ANCHORING SYSTEM APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL COSTS FOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO IMPLEMENT APPROVED ANCHORING SYSTEM INCLUDED IN PRICE BID FOR CORRUGATED POLYPROPYLENE PIPE.



Brogan Tyler



REVISION	BY	DATE

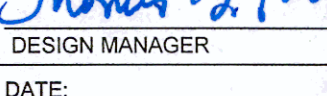
PAY ITEM NOTES

PROJECT NO. TMUA-W_21-02 TO#12

BERRYHILL WATER LINE REPLACEMENT

**CITY OF TULSA, OKLAHOMA
WATER AND SEWER DEPARTMENT**

PLANS AND ESTIMATES PREPARED BY: FREES AND NICHOLS, INC.	5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
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PLAN SCALE:	DRAWN	TW	4/2025	APPROVED:
N/A	DESIGNED	EA	4/2025	 DESIGN MANAGER
	SURVEY	NP	11/2024	
PROFILE SCALE:	PROJ. MGR.	<i>RF</i>	<i>4/2025</i>	
HORIZONTAL N/A	LEAD ENGR.	<i>CEW</i>	<i>6/25</i>	
	FIELD MGR.	<i>MSV</i>	<i>6/2025</i>	
VERTICAL N/A				

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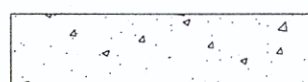
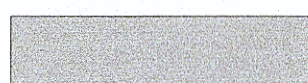
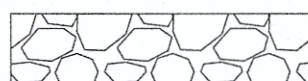
ATLAS PAGE NO: 65 & 66	SHEET 4 OF 53 SHEETS
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GENERAL CONSTRUCTION NOTES

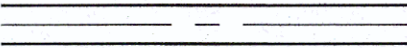
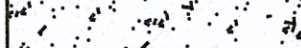
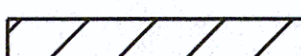
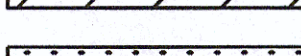
3. ALL CONSTRUCTION MATERIALS SHALL BE IN ACCORDANCE WITH THE 2019 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AS ADOPTED BY THE CITY OF TULSA AND THE CURRENT CITY OF TULSA PUBLIC WORKS DEPARTMENT'S STANDARD SPECIFICATIONS AND STANDARD DETAILS AND STANDARD DRAWINGS AND CITY OF TULSA SPECIAL PROVISIONS.
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 AFFECTED 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, 918-596-9404, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK OR PRIOR TO REMOVING TRAFFIC SIGNS.
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 918-595-9508 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.

- 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.
- 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.
- 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.
- POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE. EXACT LENGTHS SHALL BE DETERMINED BY A FIELD SURVEY CONDUCTED BY THE CONTRACTOR.
- 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.
- 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.
- 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.
- STRAW OR HAY BALES AS STORMWATER BEST MANAGEMENT PRACTICES ARE NO LONGER ALLOWED ON CONSTRUCTION PROJECTS.
- THE CONTRACTOR MUST CALL 1-800-458-4251 IMMEDIATELY IF A NATURAL GAS PIPELINE IS CUT, DAMAGED, OR OTHERWISE DISTURBED.
- PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.
- 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 PERFORMED WITHIN THE GUIDELINES OF THE ADA, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE METROPOLITAN TULSA TRANSIT AUTHORITY (MTTA), ERIC SMITH 918-830-0024, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK, LANE CLOSURES OR PRIOR TO DETOURING TRAFFIC.
- CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIALS IN THE FLOODPLAIN.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST SUBMIT A STORMWATER MANAGEMENT PLAN (SWMP) TO BE APPROVED BY THE CITY OF TULSA. THE CONTRACTOR IS ALSO RESPONSIBLE FOR EROSION CONTROL DURING THE DURATION OF CONSTRUCTION.

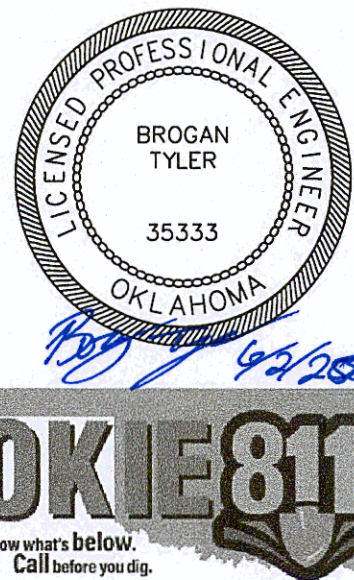
EXISTING UTILITY LINE SYMBOLS

- | | | | |
|---|--------------------------|---|-----------------------|
|  | WATER METER | _____ W _____ | WATER LINE |
|  | WATER VALVE | _____ SS _____ | SANITARY SEWER LINE |
|  | FIRE HYDRANT | ----- | STORM SEWER |
|  | IRRIGATION CONTROL VALVE | _____ EUG _____ | UNDERGROUND ELECTRIC |
|  | STORM SEWER MANHOLE | _____ G _____ | GAS LINE |
|  | SANITARY SEWER MANHOLE | _____ UGT _____ | UNDERGROUND TELEPHONE |
|  | IRON PIN FOUND | _____ | PROPERTY LINE |
|  | BENCH MARK | _____ | BUILDING SETBACK LINE |
|  | LIGHT POLE | ----- | EASEMENT LINE |
|  | ELECTRIC METER |  | EXISTING CONCRETE |
|  | TELEPHONE JUNCTION BOX |  | EXISTING ASPHALT |
|  | TELEPHONE PEDESTAL |  | EXISTING GRAVEL |
|  | TELEPHONE MANHOLE |  | EXISTING VEGETATION |
|  | TRAFFIC SIGN | | |
|  | TRAFFIC SIGNAL BOX | | |
|  | MAILBOX | | |
|  | TREES | | |

DEMOLITION SYMBOLS

- | | | | |
|---|-------------------|---|-------------------------|
|  | WATER LINE |  | REPLACEMENT OF CONCRETE |
|  | HORIZONTAL BEND |  | REPLACEMENT OF ASPHALT |
|  | TEE |  | REPLACEMENT OF SOD |
|  | GATE VALVE |  | ABANDON IN PLACE |
|  | AIR RELEASE VALVE | | |
|  | FIRE HYDRANT | | |
|  | RESTRAINT LENGTHS | | |
|  | UNCASED BORE | | |

REQUIRED RESTRAINED LENGTHS	
FITTING	RESTRAINED JOINT LENGTH (FT)
11.25" HORZ.	5
22.5" HORZ.	10
45" HORZ.	15
90" HORZ.	40
11.25" VERT.	10
22.5" VERT.	20
45" VERT.	40
90" VERT.	95
6" DEAD END	50
6"x6" TEE	30
12"x6" TEE	10
CALCULATED USING RESTRAINT LENGTHS CALCULATOR FOUND HERE: https://dipra.org/technical-resources/calculator/s/thrust-restraint-calculator	
TYPE 4 LAYING CONDITION, CLAY 2 SOIL, 4' COVER, 250 PSI DESIGN PRESSURE, 1.5 SAFETY FACTOR. ALL LENGTHS POLYWRAPPED	



REVISION		BY	DATE
GENERAL CONSTRUCTION NOTES			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE:	DRAWN	TW	4/2025
N/A	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	JB	06/2025
HORIZONTAL	LEAD ENGR.	FEW	06/25
N/A	FIELD MGR.	AV	6/2025
VERTICAL			
N/A			
FILE: GN-ALL-GN-NOTES.dwg		DATE:	
ATLAS PAGE NO: 65 & 66		SHEET 5 OF 53 SHEETS	

WATER METER SUMMARY TABLE LINE 'A'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
11+07.44	SHORT	0.75"	2548 S. 61st W. AVE	2.25' LT
11+49.74	LONG	0.75"	2545 S. 61st W. AVE.	45.89' RT
12+54.62	SHORT	0.75"	2536 S. 61st W. AVE.	3.52' LT
12+64.89	LONG	0.75"	2535 S. 61st W. AVE.	38.16' RT
13+90.74	SHORT	0.75"	2526 S. 61st W. AVE.	13.15' LT
14+08.97	LONG	0.75"	2525 S. 61st W. AVE.	37.41' RT
15+11.35	LONG	0.75"	2515 S. 61st W. AVE.	37.67' RT
15+38.96	SHORT	0.75"	2516 S. 61st W. AVE.	11.94' LT
16+16.20	LONG	0.75"	2505 S. 61st W. AVE. (S)	40.00' RT
16+37.56	SHORT	0.75"	2360 S. 61st W. AVE.	9.19' LT
16+71.47	LONG	0.75"	2505 S. 61st W. AVE. (N)	39.49' RT
16+98.95	SHORT	0.75"	2348 S. 61st W. AVE.	11.94' LT
17+70.80	LONG	0.75"	2345 S. 61st W. AVE.	40.43' RT
17+85.80	SHORT	0.75"	2338 S. 61st W. AVE. (S)	10.43' LT
18+21.74	LONG	0.75"	2339 S. 61st W. AVE.	40.72' RT
18+76.43	SHORT	0.75"	2338 S. 61st W. AVE. (N)	13.74' LT
18+95.24	SHORT	0.75"	2332 S. 61st W. AVE.	12.49' LT
19+23.63	LONG	0.75"	2335 S. 61st W. AVE.	39.85' RT
19+81.78	LONG	0.75"	2325 S. 61st W. AVE.	37.75' RT
20+14.53	SHORT	0.75"	2324 S. 61st W. AVE.	13.65' LT
21+68.27	LONG	0.75"	2313 S. 61st W. AVE.	42.39' RT
21+87.83	SHORT	0.75"	2310 S. 61st W. AVE.	7.17' LT
22+12.91	SHORT	0.75"	6110 W. 23rd ST. (S)	6.16' LT
22+21.30	LONG	0.75"	2309 S. 61st W. AVE.	40.02' RT
22+56.19	SHORT	0.75"	6110 W. 23rd ST. (N)	5.40' LT
22+72.34	LONG	0.75"	5942 W. 23rd ST.	44.18' RT
23+95.98	LONG	0.75"	5937 W. 23rd ST. (S)	37.15' RT
24+26.04	SHORT	0.75"	2248 S. 61st W. AVE. (S)	12.26' LT
24+31.06	LONG	0.75"	5937 W. 23rd ST. (C)	38.03' RT
24+55.46	LONG	0.75"	5937 W. 23rd ST. (N)	37.67' RT
24+78.15	SHORT	0.75"	2248 S. 61st W. AVE. (N)	13.66' LT
25+27.00	LONG	0.75"	2241 S. 61st W. AVE.	37.69' RT
25+45.23	SHORT	0.75"	2238 S. 61st W. AVE.	11.62' LT
26+77.59	SHORT	0.75"	2226 S. 61st W. AVE.	11.16' LT
27+07.73	LONG	0.75"	2211 S. 61st W. AVE.	38.67' RT
27+53.79	SHORT	0.75"	2220 S. 61st W. AVE.	11.18' LT
28+40.48	SHORT	0.75"	2216 S. 61st W. AVE.	8.75' LT
28+81.81	LONG	0.75"	2201 S. 61st W. AVE. (S)	38.28' RT
29+35.29	LONG	0.75"	2201 S. 61st W. AVE. (C)	40.06' RT
29+85.93	LONG	0.75"	2201 S. 61st W. AVE. (N)	35.38' RT
30+24.83	LONG	0.75"	6020 W. 21st PL.	58.95' RT

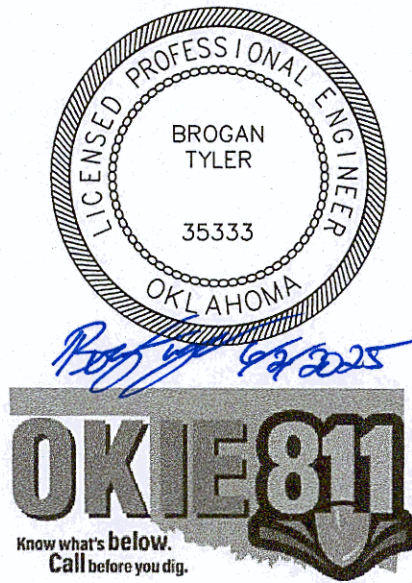
WATER METER SUMMARY TABLE LINE 'B'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
101+30.17	SHORT	0.75"	2545 S. 59th W. AVE.	8.76' RT
102+81.47	SHORT	0.75"	2535 S. 59th W. AVE.	10.88' RT
103+49.46	SHORT	0.75"	2525 S. 59th W. AVE.	14.16' RT
103+75.30	SHORT	0.75"	2519 S. 59th W. AVE.	12.54' RT
104+33.04	LONG	0.75"	2532 S. 59th W. AVE. (W)	34.37' LT
106+01.52	SHORT	0.75"	2532 S. 59th W. AVE. (E)	12.70' RT
106+58.25	LONG	0.75"	5910 W. 25th ST. (S)	36.30' LT
106+61.94	LONG	0.75"	5910 W. 25th ST. (N)	36.58' LT
107+15.72	LONG	0.75"	2350 S. 59th W. AVE. (S)	40.72' LT
107+37.38	LONG	0.75"	2350 S. 59th W. AVE. (N)	39.05' LT
107+71.66	SHORT	0.75"	2349 S. 59th W. AVE.	8.57' RT
108+49.06	LONG	0.75"	2340 S. 59th W. AVE.	36.00' LT
108+61.94	SHORT	0.75"	2347 S. 59th W. AVE.	8.81' RT
109+79.19	LONG	0.75"	2330 S. 59th W. AVE.	35.77' LT
110+41.75	SHORT	0.75"	2325 S. 59th W. AVE.	12.29' RT
110+49.65	LONG	0.75"	2322 S. 59th W. AVE.	40.55' LT
111+82.92	SHORT	0.75"	2321 S. 59th W. AVE.	12.01' RT
112+09.63	LONG	0.75"	2312 S. 59th W. AVE.	42.03' LT
112+14.21	LONG	0.75"	2302 S. 59th W. AVE. (S)	42.28' LT
113+05.52	LONG	0.75"	2302 S. 59th W. AVE. (C)	37.93' LT
113+09.09	LONG	0.75"	2302 S. 59th W. AVE. (N)	37.24' LT
113+66.40	LONG	0.75"	2248 S. 59th W. AVE. (SE)	37.36' LT
113+68.98	LONG	0.75"	2248 S. 59th W. AVE. (SW)	44.25' LT
113+87.55	SHORT	0.75"	2248 S. 59th W. AVE. (E)	8.69' RT
114+11.57	LONG	0.75"	2248 S. 59th W. AVE. (W)	38.40' LT
116+17.86	SHORT	0.75"	2229 S. 59th W. AVE.	9.71' RT
117+02.91	SHORT	0.75"	2229 S. 59th W. AVE. (N)	9.27' RT
117+94.89	LONG	0.75"	2222 S. 59th W. AVE.	39.70' LT
118+17.11	SHORT	0.75"	2209 S. 59th W. AVE.	10.66' RT
119+60.25	SHORT	0.75"	2222 S. 59th W. AVE. (S)	8.74' RT
119+72.95	SHORT	0.75"	2222 S. 59th W. AVE. (C)	4.62' RT
119+74.91	SHORT	0.75"	2222 S. 59th W. AVE. (N)	3.78' RT
120+94.32	LONG	0.75"	5911 W. 22nd ST.	38.46' LT
122+05.92	SHORT	0.75"	2137 S. 59th W. AVE. (S)	4.53' RT
122+55.58	SHORT	0.75"	2137 S. 59th W. AVE. (N)	7.80' RT
123+41.11	LONG	0.75"	2137 S. 59th W. AVE.	40.27' LT
123+91.05	SHORT	0.75"	2117 S. 59th W. AVE.	9.26' RT
125+15.13	SHORT	0.75"	5820 W. 21st ST.	8.82' RT

WATER METER SUMMARY TABLE LINE 'C'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
200+11.46	SHORT	0.75"	UNKNOWN ADDRESS C-1	6.72' LT
200+15.31	SHORT	0.75"	UNKNOWN ADDRESS C-2	7.66' LT
201+58.59	LONG	2.00"	2540 S. 57th W. AVE.	10.31' LT
204+12.52	SHORT	0.75"	2528 S. 57th W. AVE.	11.18' LT
205+39.82	SHORT	0.75"	2512 S. 57th W. AVE.	7.61' LT
206+19.21	SHORT	0.75"	2502 S. 57th W. AVE.	10.87' LT
207+17.60	SHORT	0.75"	2448 S. 57th W. AVE.	11.04' LT
208+80.90	SHORT	0.75"	2410 S. 57th W. AVE.	6.56' LT
210+04.17	SHORT	0.75"	2330 S. 57th W. AVE. (S)	7.59' LT
210+31.63	SHORT	0.75"	2330 S. 57th W. AVE. (N)	7.50' LT

WATER METER SUMMARY TABLE LINE 'D'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
300+69.11	LONG	0.75"	5743 W. 22nd ST.	33.22' LT
302+25.08	SHORT	0.75"	5732 W. 22nd ST.	9.54' RT
302+52.72	LONG	0.75"	5729 W. 22nd ST.	33.18' LT
304+54.36	LONG	0.75"	5719 W. 22nd ST.	32.89' LT
304+82.06	LONG	0.75"	5707 W. 22nd ST. (W)	32.34' LT
304+92.16	SHORT	0.75"	2204 S. 57th W. AVE.	8.51' RT
304+93.27	LONG	0.75"	5707 W. 22nd ST. (E)	32.77' LT

WATER METER SUMMARY TABLE LINE 'E'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
408+07.02	LONG	0.75"	5734 W. 23rd ST.	41.49' RT
409+33.88	SHORT	0.75"	5723 W. 23rd ST.	8.17' LT
410+28.95	SHORT	0.75"	5707 W. 23rd ST.	7.34' LT
410+45.79	LONG	0.75"	5704 W. 23rd ST.	37.82' RT
411+75.65	SHORT	0.75"	5703 W. 23rd ST.	7.82' LT
412+17.93	LONG	0.75"	2302 S. 57th W. AVE.	37.87' RT

WATER METER SUMMARY TABLE LINE 'F'				
STATION	SERVICE TYPE	METER SIZE	ADDRESS	OFFSET
503+12.45	LONG	0.75"	5927 W. 26th ST.	52.84' LT
505+94.87	LONG	0.75"	2542 S. 59th W. AVE.	51.87' LT



REVISION		BY	DATE
WATER METER SUMMARY TABLES			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE:	DRAWN	TW	4/2025
N/A	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	JB	10/2025
HORIZONTAL N/A	LEAD ENGR.	CRW	6/25
	FIELD MGR.	MV	6/2025
VERTICAL N/A	DESIGN MANAGER <i>Johnny L. P.</i>		
FILE: GN-ALL-GN-NOTES.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 6 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-GN-NOTES.dwg

WATER FITTING TABLE LINE 'A'			
STATION	FITTING TYPE	NORTHING	EASTING
10+64.58	6" 45° BEND, RJ	415759.12	2541153.39
10+67.23	6" 45° BEND, RJ	415761.77	2541153.34
10+86.99	6" TEE, RJ	415781.52	2541152.93
12+52.29	6" 45° BEND, RJ	415946.78	2541149.48
12+64.89	6" 45° BEND, RJ	415955.81	2541158.26
16+62.55	6" TEE, RJ	416353.40	2541150.33
20+51.45	6" 11.25° BEND, RJ	416742.18	2541142.52
20+72.54	6" 11.25° BEND, RJ	416762.56	2541137.06
23+32.93	6" TEE, RJ	417022.88	2541131.18
23+73.85	6" 45° BEND, RJ	417063.79	2541130.25
23+85.06	6" 45° BEND, RJ	417071.82	2541138.06
26+32.29	6" 45° BEND, RJ	417318.99	2541132.49
26+34.64	6" 45° BEND, RJ	417321.33	2541132.44
26+41.19	6" 45° BEND, RJ	417327.89	2541132.29
26+43.60	6" 45° BEND, RJ	417330.29	2541132.23
27+55.52	6" 45° BEND, RJ	417442.19	2541129.71
27+57.87	6" 45° BEND, RJ	417444.54	2541129.66
29+06.56	6" 45° BEND, RJ	417593.19	2541126.30
29+09.34	6" 45° BEND, RJ	417595.96	2541126.24
29+87.84	6" TEE, RJ	417674.45	2541124.47
30+12.34	6" 45° BEND, RJ	417698.95	2541123.93
30+40.71	12"X6" TEE, RJ	417719.76	2541104.64

WATER FITTING TABLE LINE 'B'			
STATION	FITTING TYPE	NORTHING	EASTING
100+04.39	6" 45° BEND, RJ	415716.09	2541844.75
100+05.81	6" 45° BEND, RJ	415717.50	2541844.73
100+58.05	6" TEE, RJ	415769.74	2541844.07
100+69.46	6" 22.5° BEND, RJ	415781.15	2541843.93
100+73.30	6" 22.5° BEND	415784.74	2541842.56
100+77.72	6" 22.5° BEND, RJ	415788.88	2541841.00
100+87.01	6" 22.5° BEND, RJ	415797.56	2541837.70
106+67.47	6" 11.25° BEND, RJ	416377.58	2541820.93
106+97.70	6" 11.25° BEND, RJ	416407.24	2541826.82
107+28.63	6" TEE, RJ	416438.16	2541826.27
113+22.74	6" TEE, RJ	417032.17	2541815.73
113+58.66	6" TEE, RJ	417068.09	2541815.23
113+72.86	6" TEE, RJ	417082.29	2541815.04
119+82.87	6" TEE, RJ	417692.16	2541802.36
121+29.09	6" 45° BEND, RJ	417838.35	2541799.54
121+32.95	6" 45° BEND, RJ	417842.21	2541799.47
126+19.33	12" X 6" TEE, RJ	418328.40	2541788.31

WATER VALVE AND FIRE HYDRANT TABLE LINE 'A'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
10+02.32	0.00'	6" GV, RJ	415696.87	2541154.69
10+86.99	2.80' L	3-WAY FIRE HYDRANT A1	415781.46	2541150.12
16+62.55	10.54' L	3-WAY FIRE HYDRANT A2	416353.21	2541139.80
16+64.13	0.00'	6" GV, RJ	416354.98	2541150.30
23+34.55	0.00'	6" GV, RJ	417024.50	2541131.14
29+87.84	14.51' L	3-WAY FIRE HYDRANT A3	417674.12	2541109.96
30+37.25	0.00'	6" GV, RJ	417717.22	2541106.99

WATER VALVE AND FIRE HYDRANT TABLE LINE 'B'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
100+02.64	0.00'	6" GV, RJ	415714.33	2541844.77
100+58.16	10.09' R	3-WAY FIRE HYDRANT B1	415769.97	2541854.15
107+28.63	12.78' R	3-WAY FIRE HYDRANT B2	416438.39	2541839.05
107+30.62	0.00'	6" GV, RJ	416440.15	2541826.24
113+24.36	0.00'	6" GV, RJ	417033.79	2541815.70
113+72.93	9.41' R	3-WAY FIRE HYDRANT B3	417082.50	2541824.44
119+84.51	0.00'	6" GV, RJ	417693.81	2541802.32
126+16.86	0.00'	6" GV, RJ	418325.93	2541788.38

WATER FITTING TABLE LINE 'C'			
STATION	FITTING TYPE	NORTHING	EASTING
200+00.00	6" 90° BEND, RJ	415723.69	2542462.85
200+04.93	6" 45° BEND, RJ	415728.61	2542462.74
200+06.74	6" 45° BEND, RJ	415730.43	2542462.69
200+09.02	6" TEE, RJ	415732.71	2542462.64
206+50.00	6" TEE, RJ	416373.51	2542447.67
213+61.34	6" TEE, RJ	417084.60	2542431.51
219+71.12	6" 45° BEND, RJ	417693.65	2542410.47
219+81.10	6" 45° BEND, RJ	417700.72	2542403.42

WATER FITTING TABLE LINE 'D'			
STATION	FITTING TYPE	NORTHING	EASTING
300+16.98	6" TEE, RJ	417692.50	2541819.33
300+46.23	6" 11.25° BEND, RJ	417693.00	2541848.57
300+55.01	6" 11.25° BEND, RJ	417693.15	2541857.36
305+83.03	6" TEE, RJ	417700.45	2542385.31

WATER FITTING TABLE LINE 'E'			
STATION	FITTING TYPE	NORTHING	EASTING
400+18.57	6" 45° BEND, RJ	417022.83	2541149.74
400+22.19	6" 45° BEND, RJ	417022.83	2541153.37
400+40.29	6" TEE, RJ	417022.81	2541171.46
403+33.97	6" 45° BEND, RJ	417024.35	2541465.13
403+38.00	6" 45° BEND, RJ	417024.44	2541469.17
403+44.90	6" 45° BEND, RJ	417024.59	2541476.06
403+48.38	6" 45° BEND, RJ	417024.67	2541479.54
406+19.75	6" 45° BEND, RJ	417030.71	2541750.85
406+24.49	6" 45° BEND, RJ	417030.81	2541755.58
406+48.57	6" 45° BEND, RJ	417031.35	2541779.65
406+50.03	6" 45° BEND, RJ	417031.38	2541781.12
412+17.93	6" 45° BEND, RJ	417070.84	2542348.43
412+34.91	6" 45° BEND, RJ	417083.09	2542360.19
412+91.84	6" TEE, RJ	417084.29	2542417.11

WATER FITTING TABLE LINE 'F'			
STATION	FITTING TYPE	NORTHING	EASTING
500+00.00	6" 45° BEND, RJ	415707.04	2541139.82
500+17.57	6" 45° BEND, RJ	415694.61	2541152.24
500+20.06	6" TEE, RJ	415694.61	2541154.74
506+43.23	6" 45° BEND, RJ	415710.17	2541777.70
506+48.09	6" 45° BEND, RJ	415710.28	2541782.56
506+75.01	6" 45° BEND, RJ	415710.89	2541809.47
506+78.74	6" 45° BEND, RJ	415710.98	2541813.21
507+10.35	6" TEE, RJ	415711.69	2541844.80

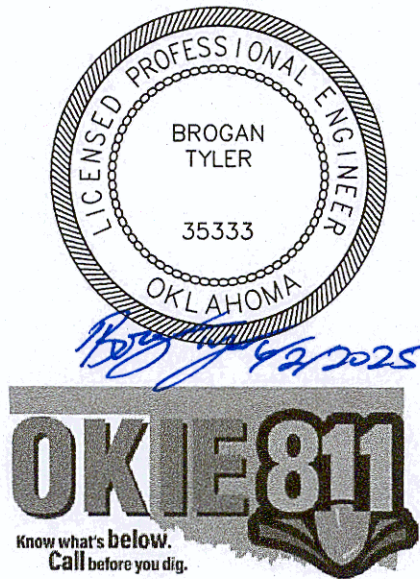
WATER VALVE AND FIRE HYDRANT TABLE LINE 'C'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
200+01.73	0.00'	6" GV, RJ	415725.42	2542462.81
200+09.02	4.98' L	3-WAY FIRE HYDRANT C1	415732.59	2542457.66
206+49.99	2.68' L	3-WAY FIRE HYDRANT C2	416373.43	2542445.00
206+53.36	0.00'	6" GV, RJ	416376.86	2542447.59
213+63.32	0.00'	6" GV, RJ	417086.58	2542431.45

WATER VALVE AND FIRE HYDRANT TABLE LINE 'D'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
300+01.58	0.00'	6" GV, RJ	417692.18	2541803.94
300+16.98	9.48' R	3-WAY FIRE HYDRANT D1	417683.03	2541819.50
305+83.03	1.82' R	3-WAY FIRE HYDRANT D2	417698.62	2542385.34
305+99.69	0.00'	6" GV, RJ	417700.70	2542401.97

WATER VALVE AND FIRE HYDRANT TABLE LINE 'E'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
113+71.61	602.00' R	3-WAY FIRE HYDRANT E2	417089.87	2542416.99
400+01.24	0.00'	6" GV, RJ	417022.85	2541132.42
400+40.29	2.00' R	3-WAY FIRE HYDRANT E1	417020.82	2541171.46
406+83.06	0.00'	6" GV, RJ	417032.12	2541814.13
406+85.90	0.00'	6" GV, RJ	417068.07	2541816.49
413+04.57	0.00'	6" GV, RJ	417084.56	2542429.83

WATER VALVE AND FIRE HYDRANT TABLE LINE 'F'				
STATION	OFFSET	APPURTENANCE TYPE	NORTHING	EASTING
507+11.97	0.00'	6" GV, RJ	415711.73	2541846.42

REVISION		BY	DATE
FITTINGS, VALVES, AND HYDRANT SUMMARY TABLES			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8877	
PLAN SCALE:	DRAWN	TW	4/2025
N/A	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	JS	06/2025
HORIZONTAL N/A	LEAD ENGR.	CEW	06/25
	FIELD MGR.	MV	6/2025
VERTICAL N/A	Shannon M. [Signature] DESIGN MANAGER		
FILE: GN-ALL-GN-NOTES.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 7 OF 53 SHEETS



STORM WATER MANAGEMENT PLAN

SITE DESCRIPTION

EROSION AND SEDIMENT CONTROLS

PROJECT LIMITS: S 61ST WEST AVE BETWEEN W 26TH ST AND W 21ST PL.
S 59TH WEST AVE BETWEEN W 26TH ST AND W 21ST PL.
S 57TH WEST AVE BETWEEN W 26TH ST AND W 22ND ST.
W 22ND ST BETWEEN S 59TH WEST AVE AND S 57TH WEST AVE.
W 23RD ST BETWEEN S 61ST WEST AVE AND S 57TH WEST AVE.
W 26TH ST BETWEEN S 61ST WEST AVE AND S 57TH WEST AVE.

PROJECT DESCRIPTION: WATER LINE IMPROVEMENTS AND WATER SERVICE RELOCATION.

SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:

- CUT TRENCH FOR WATER LINE
- SET SPOIL PILE WITHIN RIGHT OF WAY
- PROVIDE EROSION CONTROL FOR SPOIL PILE
- INSTALL WATER LINE
- BACKFILL TRENCH
- REGRADE TRENCH BACK TO EXISTING GRADE
- PROVIDE RE-VEGETATION OF ALL DISTURBED AREAS

SOIL TYPE: SILTY CLAY LOAM & SILTY CLAY

AREA TO BE DISTURBED: 1.75 ACRE

OFFSITE AREA TO BE DISTURBED:
(FOR CONTRACTOR USE)

MAXIMUM ACRES TO BE
DISTURBED AT ANY ONE TIME:
(FOR CONTRACTOR USE)

LATITUDE & LONGITUDE
OF CENTER OF PROJECT: 36°7'46.91" N 96°3'30.27" W

NAME OF RECEIVING WATERS:

SENSITIVE WATERS OR WATERSHEDS: YES ☐ NO ☒

303(d) IMPAIRED WATERS: YES ☐ NO ☒

SOIL STABILIZATION PRACTICES:

- ☒ TEMPORARY SEEDING
- ☒ PERMANENT SODDING, SPRIGGING OR SEEDING
- ☒ VEGETATIVE MULCHING
- ☒ SOIL RETENTION BLANKET
- ☒ PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

- ☒ STABILIZED CONSTRUCTION EXIT
- ☒ TEMPORARY SILT FENCE
- TEMPORARY SILT DIKES
- TEMPORARY FIBER LOG
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- ROCK FILTER DAMS
- TEMPORARY SLOPE DRAIN
- PAVED DITCH W/ DITCH LINER PROTECTION
- TEMPORARY DIVERSION CHANNELS
- TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT TRAPS
- TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- INLET SEDIMENT FILTER
- TEMPORARY BRUSH SEDIMENT BARRIERS
- SANDBAG BERMS
- TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

- ☒ HAUL ROADS DAMPENED FOR DUST CONTROL
- ☒ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- ☒ EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

SEQUENCING AND SEDIMENT EROSION CONTROL METHODS PROVIDING IN THIS SHEET ARE SUGGESTED METHODS BY THE ENGINEER. IT IS UP TO THE CONTRACTOR TO PROVIDE ACCURATE SEQUENCING AND EROSION CONTROL METHODS FOR THE PROJECT. CONTRACTOR SHALL PROVIDE EROSION CONTROL METHODS FOR REVIEW.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

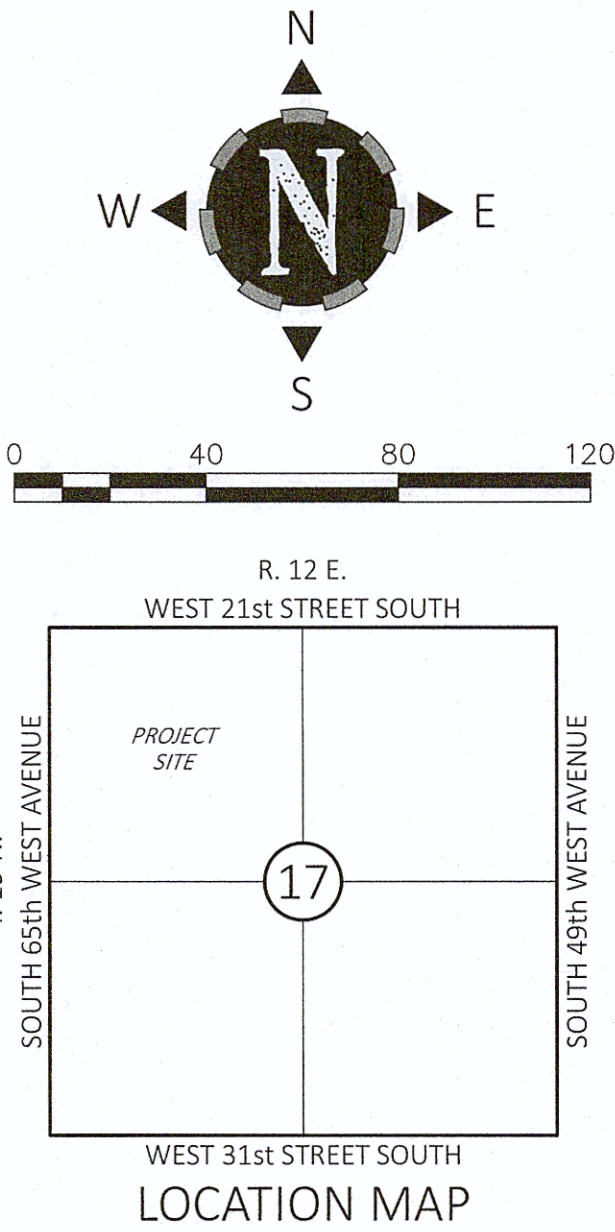
THE FOLLOWING SECTIONS OF THE 2019 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

- 103.05 BONDING REQUIREMENTS
- 104.10 FINAL CLEANING UP
- 104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK
- 104.13 ENVIRONMENTAL PROTECTION
- 106.08 STORAGE AND HANDLING OF MATERIAL
- 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
- 107.20 STORM WATER MANAGEMENT
- 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL



REVISION	BY	DATE
STORMWATER POLLUTION PREVENTION PLAN		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE:	DRAWN	TW 4/2025
N/A	DESIGNED	EA 4/2025
	SURVEY	NP 11/2024
PROFILE SCALE:	PROJ. MGR.	B 06/25
HORIZONTAL	LEAD ENGR.	JW 6/25
N/A	FIELD MGR.	NW 6/2025
VERTICAL		
N/A		
FILE: GN-ALL-GN-NOTES.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 8 OF 53 SHEETS





TOPOGRAPHIC SURVEY

OF: A PART OF THE NW/4 SECTION 17, TOWNSHIP 19 NORTH, RANGE 12 EAST,
TULSA COUNTY COUNTY, STATE OF OKLAHOMA

GENERAL NOTES

- THE BEARINGS SHOWN HEREON ARE BASED ON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE 3501, NAVD 1983 (1993).
- THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988 DATUM.
- THE PROPERTY DESCRIBED HEREON IS LOCATED IN FLOOD ZONES "X-UNSHADED & X-SHADED", AS PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 400462 0220L, EFFECTIVE DATE: OCTOBER 16, 2012.
- FIELDWORK COMPLETED OCTOBER 24, 2024.

UTILITY CONTACTS

MAGELLAN PIPELINE
ALAN CATES (918) 630-2376
ONEOK
JACKSON HESS (918) 200-5078

SYMBOL LEGEND

- | | | | |
|--|------------------------------|--|--------------------------------|
| | - CABLE TV PEDESTAL | | - DECIDUOUS TREE (ALL TYPES) |
| | - COLUMN (ALL TYPES) | | - CONIFEROUS TREE (ALL TYPES) |
| | - ELECTRIC BOX | | - BUSH (ALL TYPES) |
| | - ELECTRIC DROP | | - FENCE LINE (ALL TYPES) |
| | - ELECTRIC MANHOLE | | - NATURAL GAS LINE |
| | - ELECTRIC METER | | - OVERHEAD ELECTRIC |
| | - ELECTRIC OUTLET | | - SANITARY SEWER LINE |
| | - ELECTRIC PEDESTAL | | - STORM SEWER LINE |
| | - ELECTRIC SERVICE | | - UNDERGROUND CABLE TELEVISION |
| | - ELECTRIC TRANSFORMER | | - UNDERGROUND ELECTRIC |
| | - FIBER OPTIC BOX | | - UNDERGROUND FIBER OPTIC |
| | - FIRE HYDRANT | | - GAS LINE PAINT MARKS |
| | - FLAGPOLE | | - GAS LINE PER ATLAS |
| | - GROUND LIGHT (ALL TYPES) | | - UNDERGROUND TELEPHONE |
| | - GAS METER | | - TELEPHONE LINE PAINT MARKS |
| | - GAS REGULATOR | | - WATER LINE |
| | - GAS RISER | | - BENCH MARK |
| | - GAS SERVICE | | - SURVEY CONTROL POINT FOUND |
| | - GAS VALVE | | - SURVEY CONTROL POINT SET |
| | - GATE OPERATOR | | |
| | - GATE POST | | |
| | - GUARD POST | | |
| | - GUY ANCHOR | | |
| | - IRRIGATION CONTROL VALVE | | |
| | - LIGHT POLE (ALL TYPES) | | |
| | - MAILBOX | | |
| | - POWER POLE | | |
| | - SIGN (ALL TYPES) | | |
| | - SANITARY SEWER CLEANOUT | | |
| | - SANITARY SEWER MANHOLE | | |
| | - SPRINKLER HEAD | | |
| | - STORM SEWER INLET (SINGLE) | | |
| | - STORM SEWER MANHOLE | | |
| | - TELEPHONE MANHOLE | | |
| | - TELEPHONE PEDESTAL | | |
| | - UNDERGROUND UTILITY MARKER | | |
| | - UTILITY VAULT (ALL TYPES) | | |
| | - WATER HYDRANT | | |
| | - WATER METER | | |
| | - WATER VALVE | | |
| | - YARD LIGHT (ALL TYPES) | | |

CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
408	417680.6695	2541755.9532	677.79	BENCH MARK (3/8" IRON PIN SET w/CAP - NATIVE PLAINS)
409	418287.1368	2541740.5107	661.79	BENCH MARK (3/8" IRON PIN SET w/CAP - NATIVE PLAINS)
411	417689.4336	2541121.8005	713.36	BENCH MARK (3/8" IRON PIN SET w/CAP - NATIVE PLAINS)
46529	418155.9972	2541807.1031	663.38	3/8" IRON PIN FOUND
46531	418319.1916	2541742.7051	659.04	IRON PIN FOUND w/CAP (WHITE)
50001	417678.4745	2541816.8940	675.72	1/2" IRON PIN FOUND
50002	417731.0920	2541567.2621	683.87	1" PIPE FOUND
50008	417961.5461	2541749.4879	672.29	IRON PIN FOUND w/CAP (WHITE)



CERTIFICATE

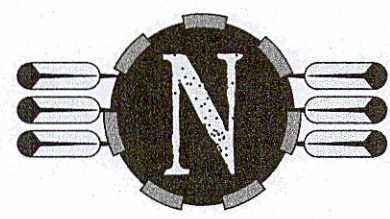
I, NATHANIEL J. REED OF THE STATE OF OKLAHOMA, AND A PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE ABOVE SHOWN SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

WITNESS MY HAND AND SEAL THIS 22nd DAY OF NOVEMBER, 2024.

REGISTERED PROFESSIONAL LAND SURVEYOR #1744



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Certificate of Authorization No. 4916

Expires June 30, 2025

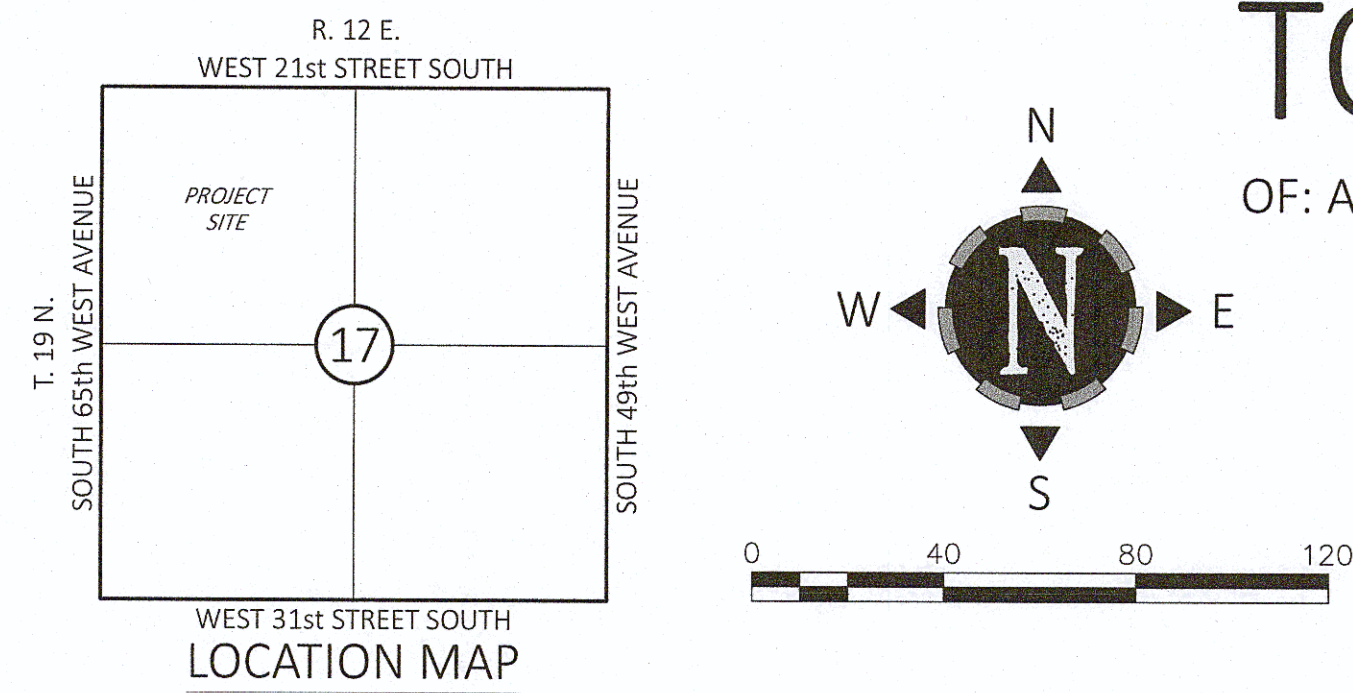
REVISIONS	By	Date

Surveyed:	NP
Drawn:	JLN
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Checked:	NJR
Scale:	1"=40'
Date:	11/22/24

Project No.: 246051

TOPOGRAPHIC SURVEY

Sheet: 9 OF 53



TOPOGRAPHIC SURVEY

OF: A PART OF THE NW/4 SECTION 17, TOWNSHIP 19 NORTH, RANGE 12 EAST,
TULSA COUNTY COUNTY, STATE OF OKLAHOMA

GENERAL NOTES

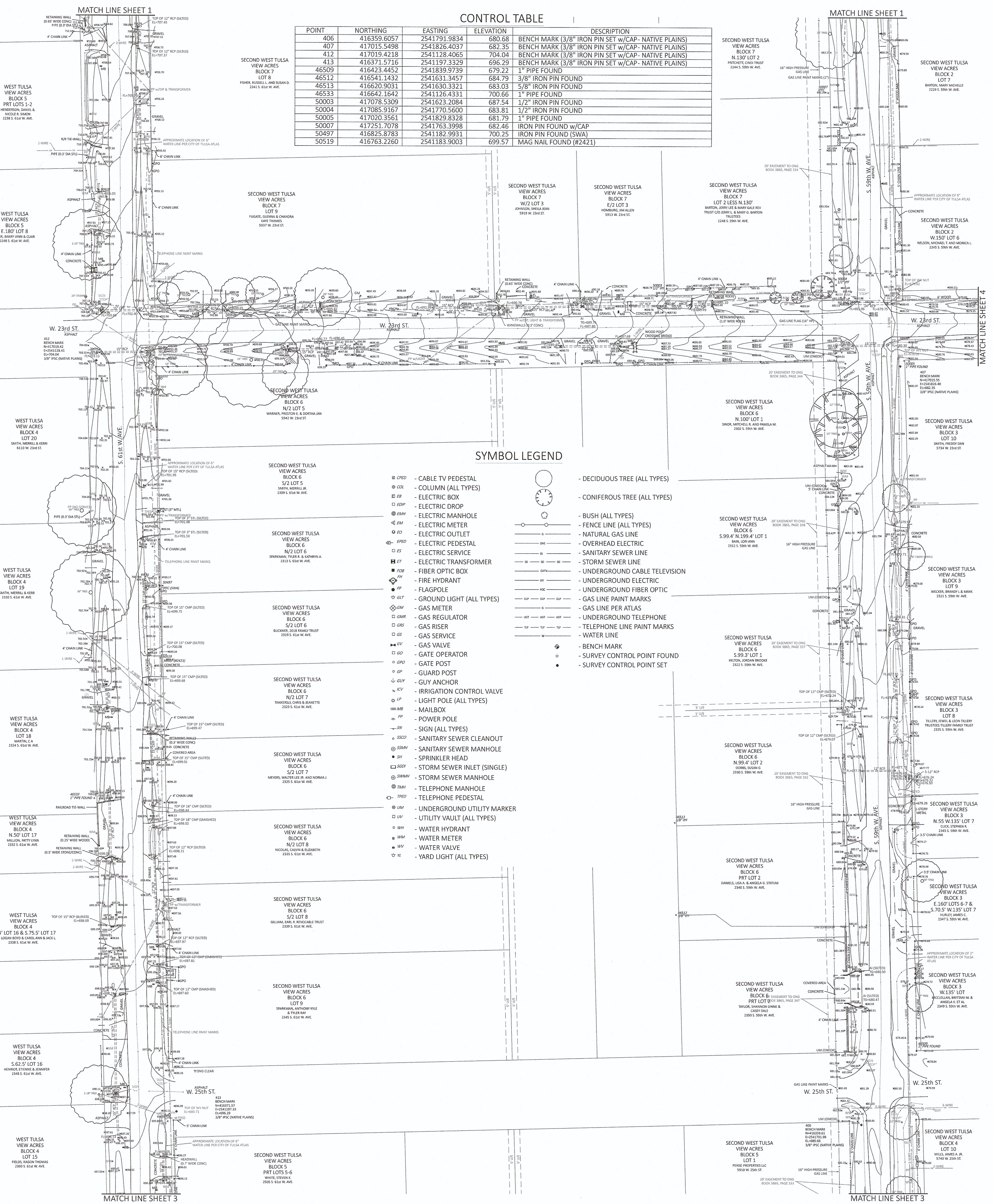
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- C. THE PROPERTY DESCRIBED HEREON IS LOCATED IN FLOOD ZONES "X-UNSHADED & X-SHADED", AS PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 400462 0220L, EFFECTIVE DATE: OCTOBER 16, 2012.
- D. FIELDWORK COMPLETED OCTOBER 24, 2024.

UTILITY CONTACTS

MAGELLAN PIPELINE
ALAN CATES (918) 630-2376
ONEOK
JACKSON HESS (918) 200-5078

CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
406	416359.6057	2541791.9834	680.68	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)
407	417015.5498	2541826.4037	682.35	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)
412	417019.4218	2541128.4065	704.04	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)
413	416371.5716	2541197.3329	696.29	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)
46509	416423.4452	2541839.9739	679.22	1" PIPE FOUND
46512	416541.1432	2541631.3457	684.79	3/8" IRON PIN FOUND
46513	416620.9031	2541630.3321	683.03	5/8" IRON PIN FOUND
46533	416642.1642	2541126.4331	700.66	1" PIPE FOUND
50004	417078.5309	2541623.2084	687.54	1/2" IRON PIN FOUND
50005	417085.9167	2541770.5600	683.81	1/2" IRON PIN FOUND
50007	417020.3561	2541829.8328	681.79	1" PIPE FOUND
50497	417251.7078	2541763.3998	682.46	IRON PIN FOUND w/CAP
50497	416825.8783	2541182.9931	700.25	IRON PIN FOUND (SWA)
50519	416763.2260	2541183.9003	699.57	MAG NAIL FOUND (#2421)



CERTIFICATE

I, NATHANIEL J. REED OF THE STATE OF OKLAHOMA, AND A PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE ABOVE SHOWN SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

WITNESS MY HAND AND SEAL THIS 22nd DAY OF NOVEMBER, 2024

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Checked:	NJR
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Date:	11/22/24

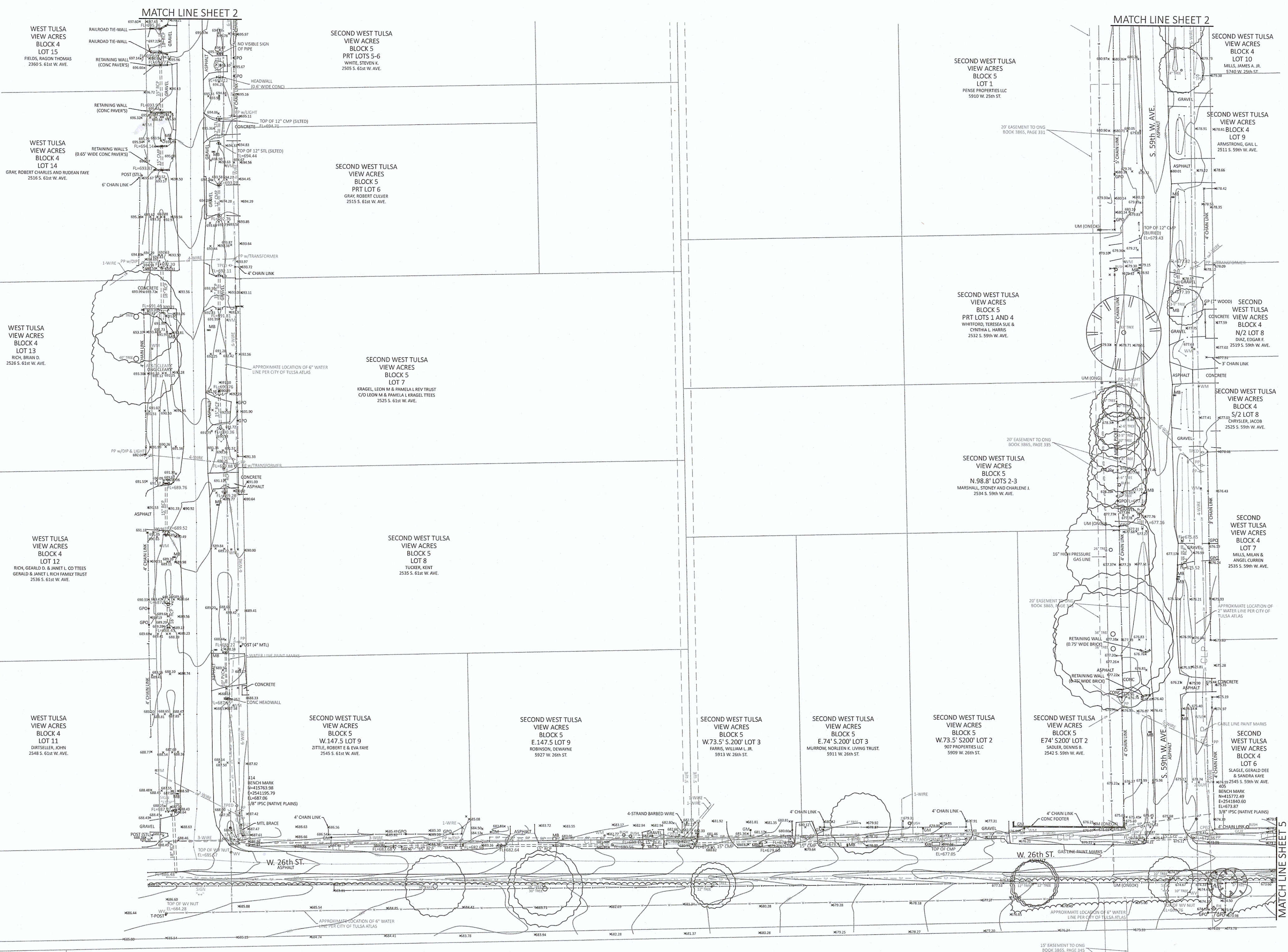
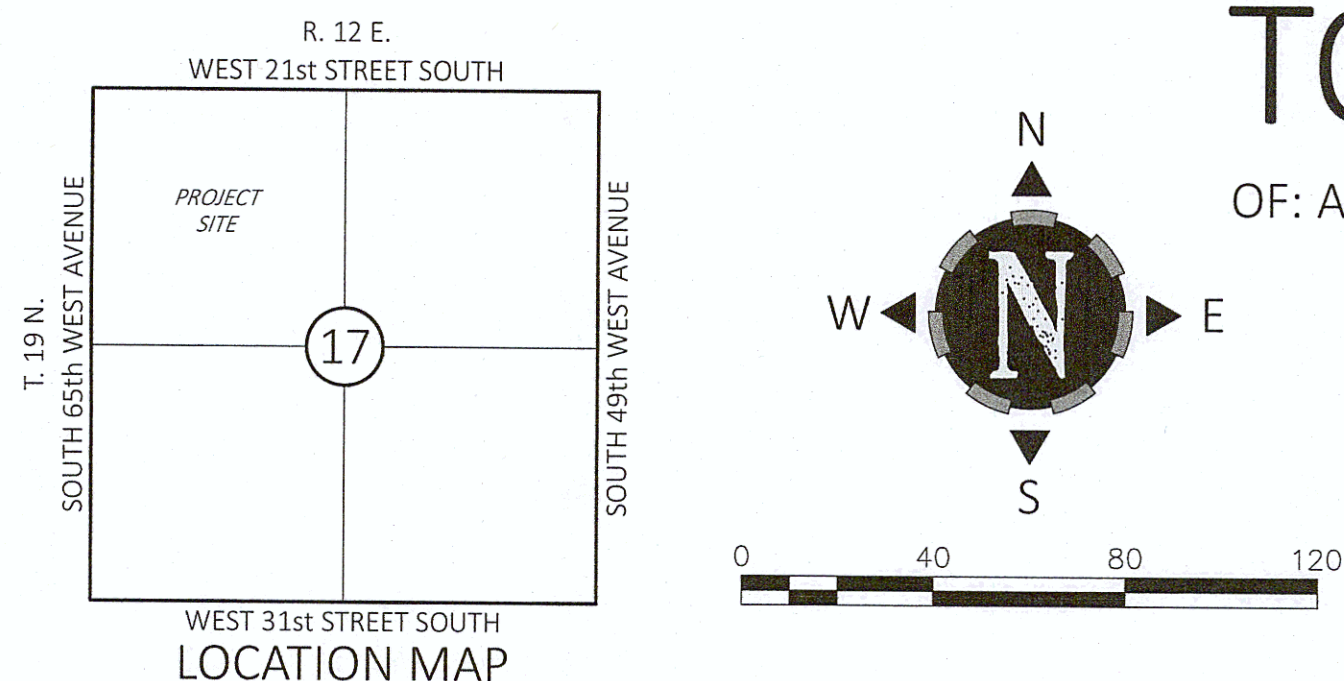
Project No.: 246051

TOPOGRAPHIC SURVEY

Sheet: 10 OF 53

- A. THE BEARINGS SHOWN HEREON ARE BASED ON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE 3501, NAD 1983 (1993).
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- D. FIELDWORK COMPLETED OCTOBER 24, 2024.

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ALAN CATES (918) 630-2376
ONEOK
JACKSON HESS (918) 200-5078



	CABLE TV PEDESTAL		DECIDUOUS TREE (ALL TYPES)
	COLUMN (ALL TYPES)		CONIFEROUS TREE (ALL TYPES)
	ELECTRIC BOX		BUSH (ALL TYPES)
	ELECTRIC DROP		FENCE LINE (ALL TYPES)
	ELECTRIC MANHOLE		NATURAL GAS LINE
	ELECTRIC METER		OVERHEAD ELECTRIC
	ELECTRIC OUTLET		SANITARY SEWER LINE
	ELECTRIC PEDESTAL		STORM SEWER LINE
	ELECTRIC SERVICE		UNDERGROUND CABLE TELEVISION
	ELECTRIC TRANSFORMER		UNDERGROUND ELECTRIC
	FIRE OPTIC BOX		UNDERGROUND FIBER OPTIC
	FIRE HYDRANT		GAS LINE PAINT MARKS
	FLAGPOLE		GAS LINE PER ATLAS
	GROUND LIGHT (ALL TYPES)		TELEPHONE LINE PAINT MARKS
	GAS METER		WATER LINE
	GAS REGULATOR		BENCH MARK
	GAS RISER		SURVEY CONTROL POINT FOUND
	GAS SERVICE		SURVEY CONTROL POINT SET
	GAS VALVE		
	GATE OPERATOR		
	GATE POST		
	GUARD POST		
	GUY ANCHOR		
	IRRIGATION CONTROL VALVE		
	LIGHT POLE (ALL TYPES)		
	MAILBOX		
	POWER POLE		
	SIGN (ALL TYPES)		
	SANITARY SEWER CLEANOUT		
	SANITARY SEWER MANHOLE		
	SPRINKLER HEAD		
	STORM SEWER INLET (SINGLE)		
	STORM SEWER MANHOLE		
	TELEPHONE MANHOLE		
	TELEPHONE PEDESTAL		
	UNDERGROUND UTILITY MARKER		
	UTILITY VAULT (ALL TYPES)		
	WATER HYDRANT		
	WATER METER		
	WATER VALVE		
	YARD LIGHT (ALL TYPES)		

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
405	415772.4891	2541840.5974	673.87	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)
414	415763.9765	2541195.7932	687.06	BENCH MARK (3/8" IRON PIN SET w/CAP- NATIVE PLAINS)

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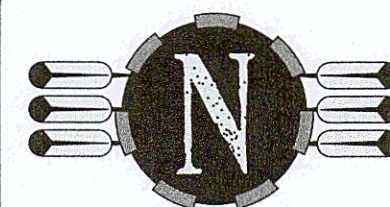
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REGISTERED PROFESSIONAL LAND SURVEYOR #1744



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REVISIONS	By	Date



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Certificate of Authorization No. 4916

Expires June 30, 2025

Surveyed:	NE
Drawn:	JLN
Reviewed:	NJR
Checked:	NJR
Scale:	1"=40'
Date:	11/22/24

tg/	
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TOPOGRAPHIC SURVEY

Project No.: 246051

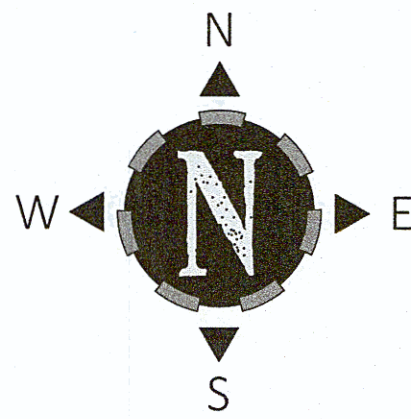
Sheet: 11 OF 53

GENERAL NOTES

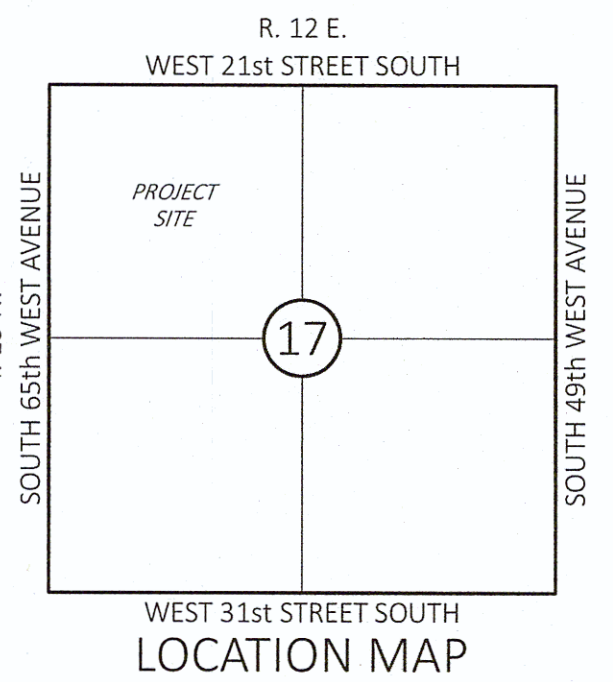
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- D. FIELDWORK COMPLETED OCTOBER 24, 2024.

TOPOGRAPHIC SURVEY

OF: A PART OF THE NW/4 SECTION 17, TOWNSHIP 19 NORTH, RANGE 12 EAST, TULSA COUNTY COUNTY, STATE OF OKLAHOMA



0 40 80 120



SYMBOL LEGEND

- CPED - CABLE TV PEDESTAL
- COL - COLUMN (ALL TYPES)
- EB - ELECTRIC BOX
- EDP - ELECTRIC DROP
- EMH - ELECTRIC MANHOLE
- EM - ELECTRIC METER
- EO - ELECTRIC OUTLET
- EPED - ELECTRIC PEDESTAL
- ES - ELECTRIC SERVICE
- ET - ELECTRIC TRANSFORMER
- FOB - FIBER OPTIC BOX
- FD - FIRE HYDRANT
- FP - FLAGPOLE
- GLT - GROUND LIGHT (ALL TYPES)
- GM - GAS METER
- GRM - GAS REGULATOR
- GRS - GAS RISER
- GS - GAS SERVICE
- GV - GAS VALVE
- GO - GATE OPERATOR
- GPO - GATE POST
- GP - GUARD POST
- GLY - GUY ANCHOR
- ICV - IRRIGATION CONTROL VALVE
- LP - LIGHT POLE (ALL TYPES)
- MB - MAILBOX
- PP - POWER POLE
- SN - SIGN (ALL TYPES)
- SSCD - SANITARY SEWER CLEANOUT
- SSMH - SANITARY SEWER MANHOLE
- SH - SPRINKLER HEAD
- SGDI - STORM SEWER INLET (SINGLE)
- SSWMH - STORM SEWER MANHOLE
- TMH - TELEPHONE MANHOLE
- TPED - TELEPHONE PEDESTAL
- UM - UNDERGROUND UTILITY MARKER
- UV - UTILITY VAULT (ALL TYPES)
- WH - WATER HYDRANT
- WM - WATER METER
- WV - WATER VALVE
- YL - YARD LIGHT (ALL TYPES)
- CT - CONIFEROUS TREE (ALL TYPES)
- B - BUSH (ALL TYPES)
- F - FENCE LINE (ALL TYPES)
- G - NATURAL GAS LINE
- OHE - OVERHEAD ELECTRIC
- SS - SANITARY SEWER LINE
- SSD - STORM SEWER LINE
- CATV - UNDERGROUND CABLE TELEVISION
- US - UNDERGROUND ELECTRIC
- FOC - UNDERGROUND FIBER OPTIC
- GLP - GAS LINE PAINT MARKS
- G - GAS LINE PER ATLAS
- UTP - UNDERGROUND TELEPHONE
- TLP - TELEPHONE LINE PAINT MARKS
- W - WATER LINE
- BM - BENCH MARK
- SP - SURVEY CONTROL POINT FOUND
- SC - SURVEY CONTROL POINT SET

UTILITY CONTACTS

MAGELLAN PIPELINE
ALAN CATES (918) 630-2376
ONEOK
JACKSON HESS (918) 200-5078

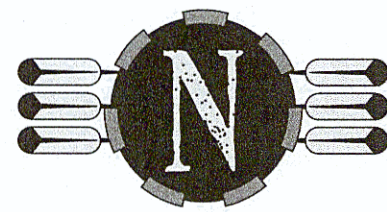
CERTIFICATE

I, NATHANIEL J. REED OF THE STATE OF OKLAHOMA, AND A PROFESSIONAL SURVEYOR, DO HEREBY CERTIFY THAT THE ABOVE SHOWN SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

WITNESS MY HAND AND SEAL THIS 22nd DAY OF NOVEMBER, 2024.

REGISTERED PROFESSIONAL LAND SURVEYOR #1744

48 HOURS BEFORE YOU DIG...CALL OKIE
1-800-522-6543
Oklahoma One-Call System, Inc.



NATIVE PLAINS
Surveying & Mapping, LLC
A Native American Owned Business
5807 South Garnett Road, Suite K, Tulsa, Oklahoma, 74146
Telephone: 918.234.7596, Fax: 918.893.5552
Certificate of Authorization No. 4916
Expires June 30, 2025

Surveyed:	NP
Drawn:	JLN
Reviewed:	NJR
Checked:	NJR
Scale:	1"=40'
Date:	11/22/24

Project No.: 246051

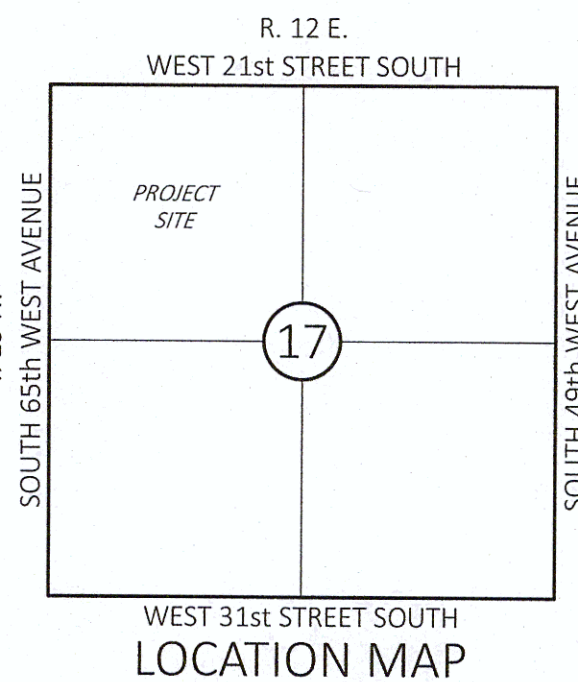
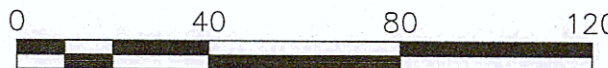
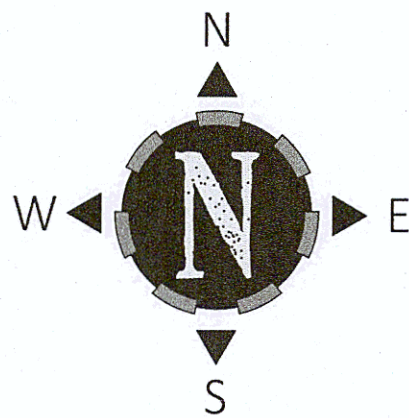
TOPOGRAPHIC SURVEY

GENERAL NOTES

- A. THE BEARINGS SHOWN HEREON ARE BASED ON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE 3501, NAD 1983 (1993).
- B. THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988 DATUM.
- C. THE PROPERTY DESCRIBED HEREON IS LOCATED IN FLOOD ZONES "X-UNSHADED & X-SHADED", AS PER FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 400462 0220L, EFFECTIVE DATE: OCTOBER 16, 2012.
- D. FIELDWORK COMPLETED OCTOBER 24, 2024.

TOPOGRAPHIC SURVEY

OF: A PART OF THE NW/4 SECTION 17, TOWNSHIP 19 NORTH, RANGE 12 EAST, TULSA COUNTY COUNTY, STATE OF OKLAHOMA

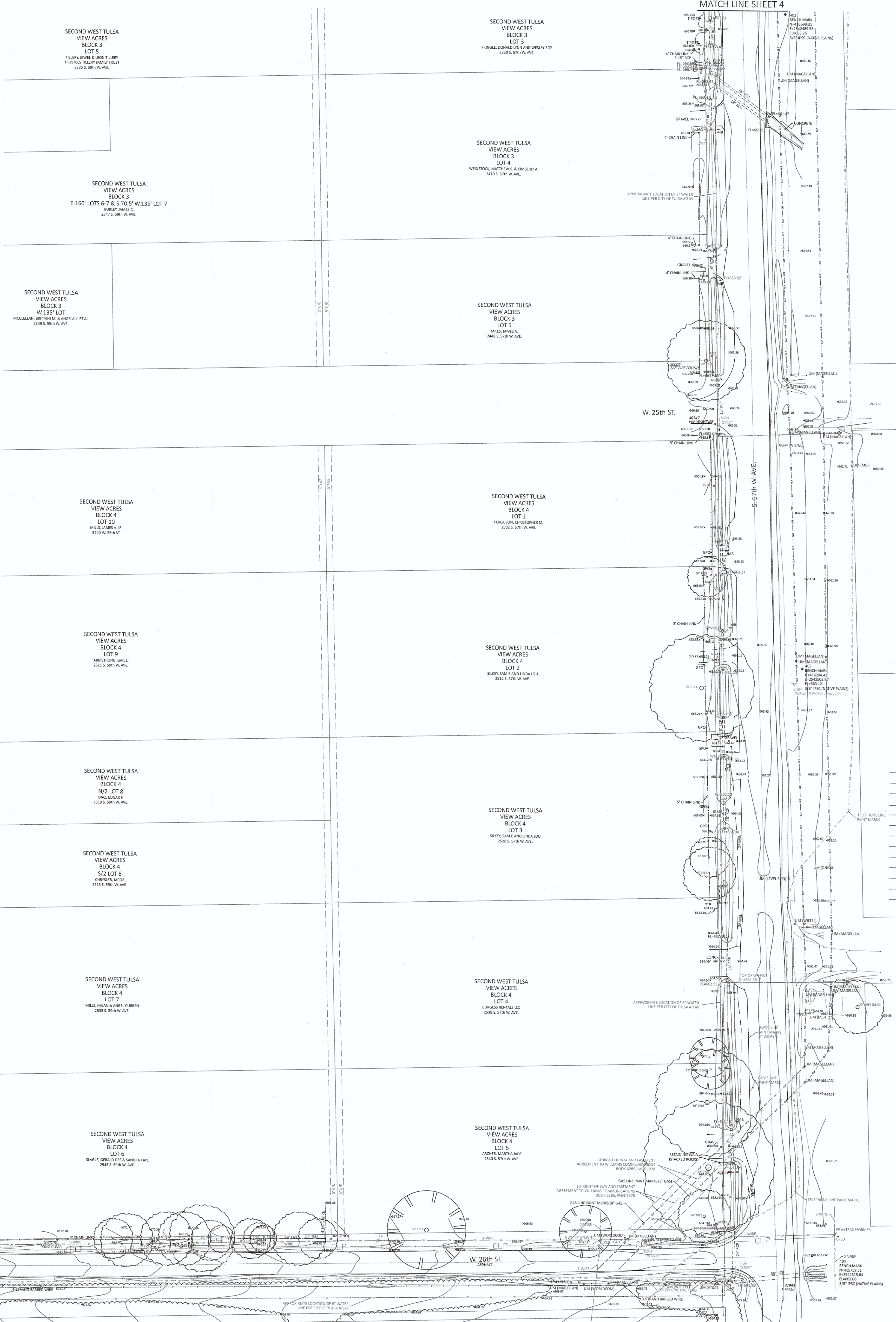


SYMBOL LEGEND

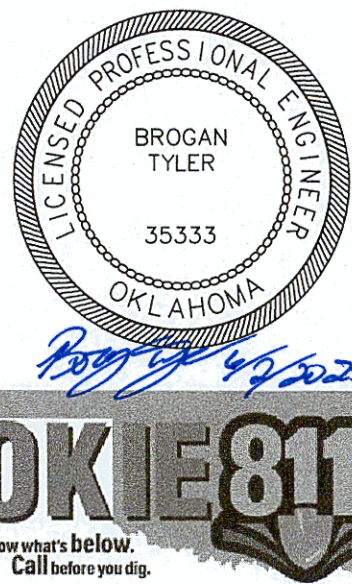
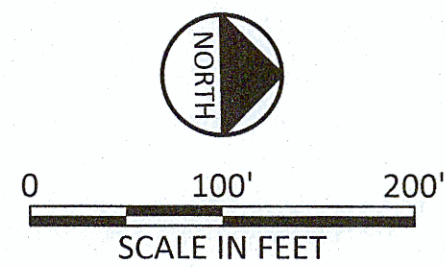
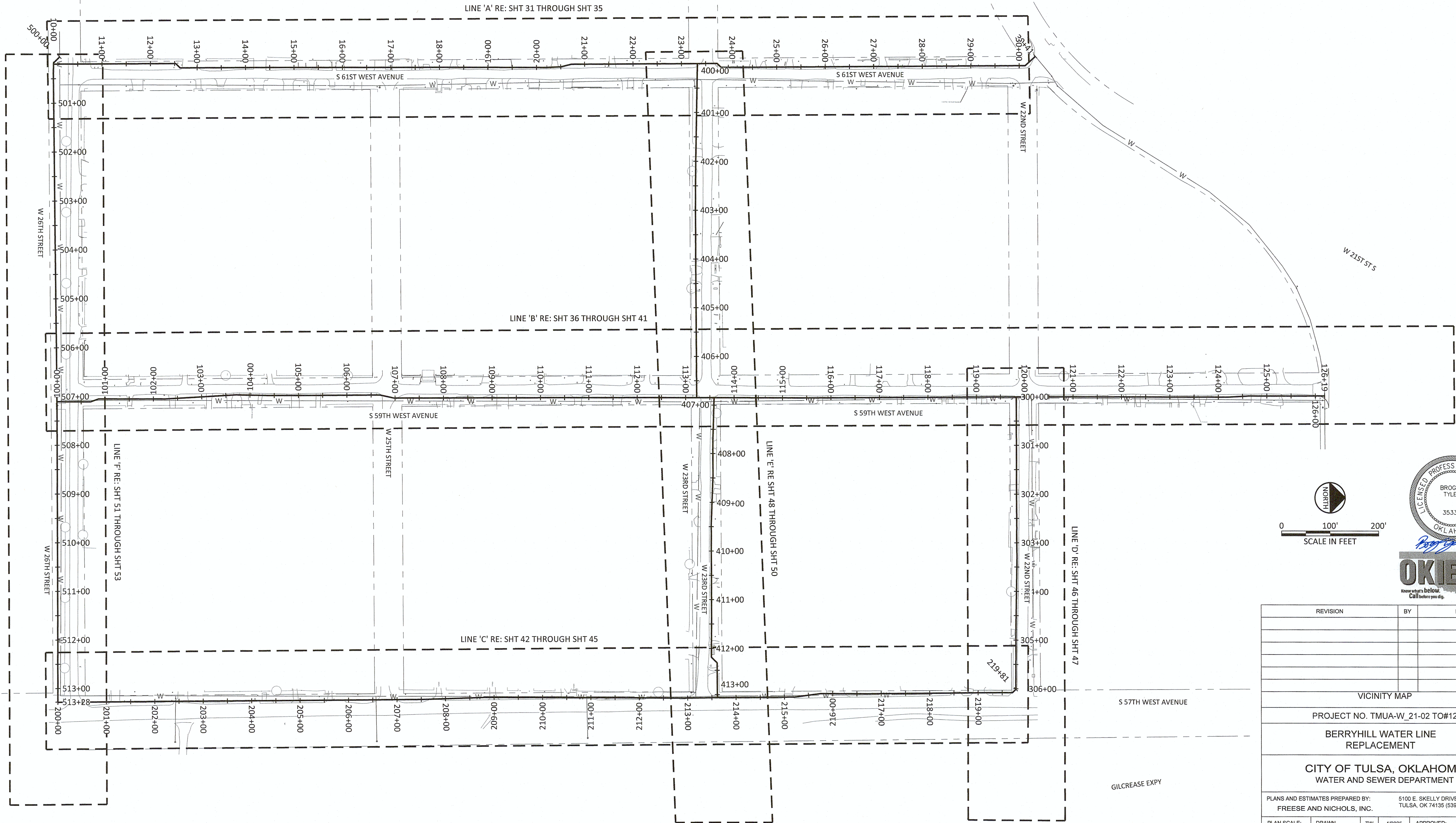
- CPED - CABLE TV PEDESTAL
- COL - COLUMN (ALL TYPES)
- EB - ELECTRIC BOX
- EDIP - ELECTRIC DROP
- EMH - ELECTRIC MANHOLE
- EM - ELECTRIC METER
- EO - ELECTRIC OUTLET
- EPED - ELECTRIC PEDESTAL
- ES - ELECTRIC SERVICE
- ET - ELECTRIC TRANSFORMER
- FGB - FIBER GLASS BOX
- FP - FIRE HYDRANT
- GLT - FLAGPOLE
- GLT - GROUND LIGHT (ALL TYPES)
- GM - GAS METER
- GRS - GAS REGULATOR
- GRS - GAS RISER
- GS - GAS SERVICE
- GV - GAS VALVE
- GO - GATE OPERATOR
- GPO - GATE POST
- GP - GUARD POST
- GLY - GUY ANCHOR
- ICV - IRRIGATION CONTROL VALVE
- LP - LIGHT POLE (ALL TYPES)
- MB - MAILBOX
- PP - POWER POLE
- SN - SIGN (ALL TYPES)
- SSCO - SANITARY SEWER CLEANOUT
- SSMH - SANITARY SEWER MANHOLE
- SH - SPRINKLER HEAD
- SGDI - STORM SEWER INLET (SINGLE)
- SHMH - STORM SEWER MANHOLE
- TMH - TELEPHONE MANHOLE
- TPED - TELEPHONE PEDESTAL
- UM - UNDERGROUND UTILITY MARKER
- UV - UTILITY VAULT (ALL TYPES)
- WH - WATER HYDRANT
- WM - WATER METER
- WV - WATER VALVE
- YL - YARD LIGHT (ALL TYPES)
- DT - DECIDUOUS TREE (ALL TYPES)
- CT - CONIFEROUS TREE (ALL TYPES)
- B - BUSH (ALL TYPES)
- F - FENCE LINE (ALL TYPES)
- NGL - NATURAL GAS LINE
- OEL - OVERHEAD ELECTRIC
- SLS - SANITARY SEWER LINE
- SSL - STORM SEWER LINE
- UCS - UNDERGROUND CABLE TELEVISION
- UEL - UNDERGROUND ELECTRIC
- UFL - UNDERGROUND FIBER OPTIC
- GLP - GAS LINE PAINT MARKS
- GLA - GAS LINE PER ATLAS
- UGT - UNDERGROUND TELEPHONE
- TLP - TELEPHONE LINE PAINT MARKS
- WL - WATER LINE
- B - BENCH MARK
- CP - SURVEY CONTROL POINT FOUND
- CS - SURVEY CONTROL POINT SET

UTILITY CONTACTS

MAGELLAN PIPELINE
ALAN CATES (918) 630-2376
ONEOK
JACKSON HESS (918) 200-5078

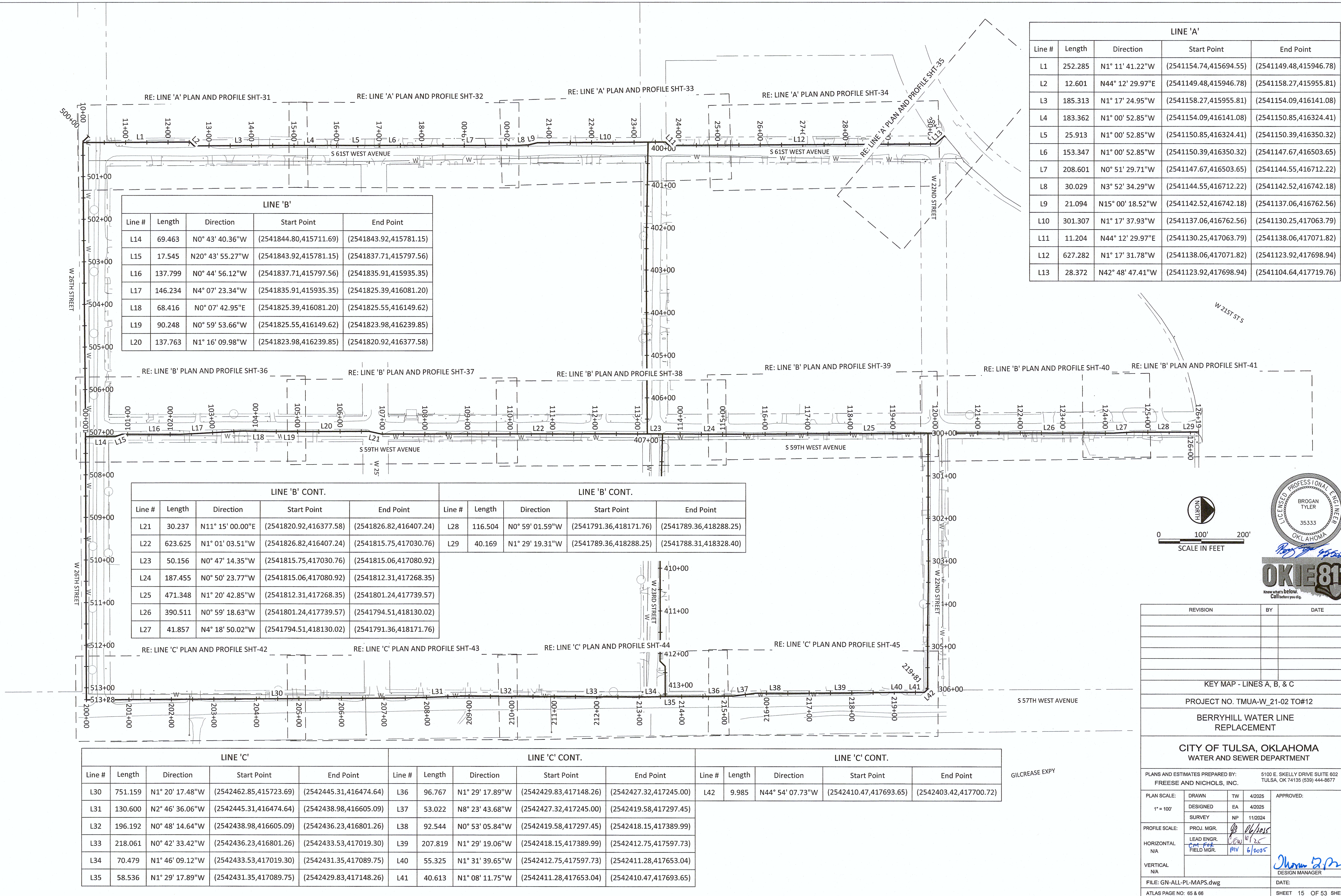


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REVISION	BY	DATE
VICINITY MAP		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 100'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE:	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: 6/6/2025 6/10/25 6/10/25
HORIZONTAL N/A		
VERTICAL N/A		
FILE: GN-ALL-PL-MAPS.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 14 OF 53 SHEETS

Filename: N:\VTU\Sheets\GN-ALL-PL-MAPS.dwg



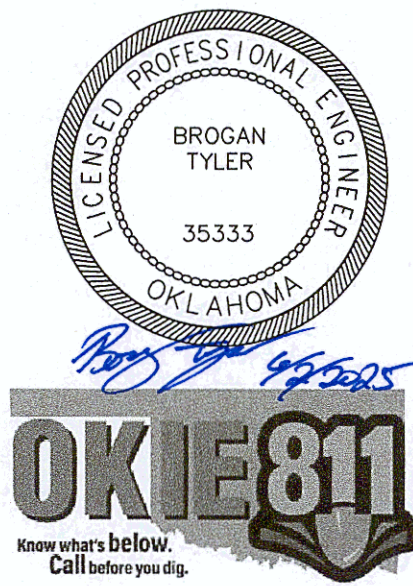
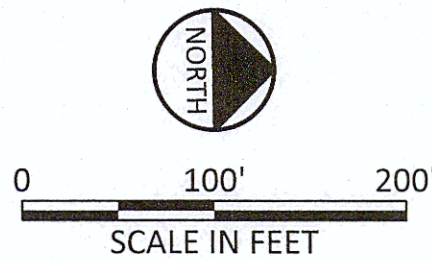
LINE 'A'				
Line #	Length	Direction	Start Point	End Point
L1	252.285	N1° 11' 41.22"W	(2541154.74,415694.55)	(2541149.48,415946.78)
L2	12.601	N44° 12' 29.97"E	(2541149.48,415946.78)	(2541158.27,415955.81)
L3	185.313	N1° 17' 24.95"W	(2541158.27,415955.81)	(2541154.09,416141.08)
L4	183.362	N1° 00' 52.85"W	(2541154.09,416141.08)	(2541150.85,416324.41)
L5	25.913	N1° 00' 52.85"W	(2541150.85,416324.41)	(2541150.39,416350.32)
L6	153.347	N1° 00' 52.85"W	(2541150.39,416350.32)	(2541147.67,416503.65)
L7	208.601	N0° 51' 29.71"W	(2541147.67,416503.65)	(2541144.55,416712.22)
L8	30.029	N3° 52' 34.29"W	(2541144.55,416712.22)	(2541142.52,416742.18)
L9	21.094	N15° 00' 18.52"W	(2541142.52,416742.18)	(2541137.06,416762.56)
L10	301.307	N1° 17' 37.93"W	(2541137.06,416762.56)	(2541130.25,417063.79)
L11	11.204	N44° 12' 29.97"E	(2541130.25,417063.79)	(2541138.06,417071.82)
L12	627.282	N1° 17' 31.78"W	(2541138.06,417071.82)	(2541123.92,417698.94)
L13	28.372	N42° 48' 47.41"W	(2541123.92,417698.94)	(2541104.64,417719.76)

LINE 'B'				
Line #	Length	Direction	Start Point	End Point
L14	69.463	N0° 43' 40.36"W	(2541844.80,415711.69)	(2541843.92,415781.15)
L15	17.545	N20° 43' 55.27"W	(2541843.92,415781.15)	(2541837.71,415797.56)
L16	137.799	N0° 44' 56.12"W	(2541837.71,415797.56)	(2541835.91,415935.35)
L17	146.234	N4° 07' 23.34"W	(2541835.91,415935.35)	(2541825.39,416081.20)
L18	68.416	N0° 07' 42.95"E	(2541825.39,416081.20)	(2541825.55,416149.62)
L19	90.248	N0° 59' 53.66"W	(2541825.55,416149.62)	(2541823.98,416239.85)
L20	137.763	N1° 16' 09.98"W	(2541823.98,416239.85)	(2541820.92,416377.58)

LINE 'B' CONT.				
Line #	Length	Direction	Start Point	End Point
L21	30.237	N11° 15' 00.00"E	(2541820.92,416377.58)	(2541826.82,416407.24)
L22	623.625	N1° 01' 03.51"W	(2541826.82,416407.24)	(2541815.75,417030.76)
L23	50.156	N0° 47' 14.35"W	(2541815.75,417030.76)	(2541815.06,417080.92)
L24	187.455	N0° 50' 23.77"W	(2541815.06,417080.92)	(2541812.31,417268.35)
L25	471.348	N1° 20' 42.85"W	(2541812.31,417268.35)	(2541801.24,417739.57)
L26	390.511	N0° 59' 18.63"W	(2541801.24,417739.57)	(2541794.51,418130.02)
L27	41.857	N4° 18' 50.02"W	(2541794.51,418130.02)	(2541791.36,418171.76)

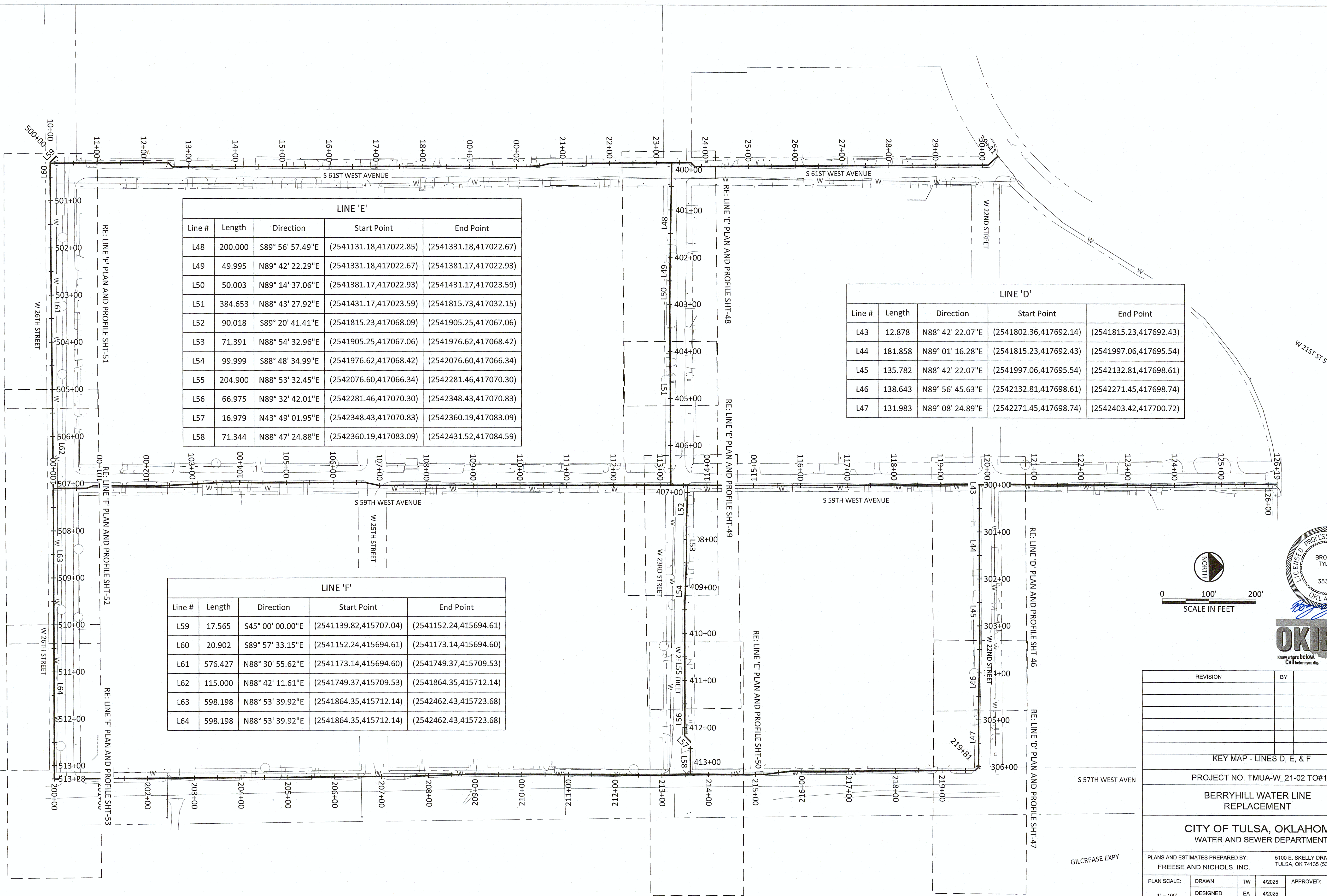
LINE 'B' CONT.				
Line #	Length	Direction	Start Point	End Point
L28	116.504	N0° 59' 01.59"W	(2541791.36,418171.76)	(2541789.36,418288.25)
L29	40.169	N1° 29' 19.31"W	(2541789.36,418288.25)	(2541788.31,418328.40)

LINE 'C'					LINE 'C' CONT.					LINE 'C' CONT.				
Line #	Length	Direction	Start Point	End Point	Line #	Length	Direction	Start Point	End Point	Line #	Length	Direction	Start Point	End Point
L30	751.159	N1° 20' 17.48"W	(2542462.85,415723.69)	(2542445.31,416474.64)	L36	96.767	N1° 29' 17.89"W	(2542429.83,417148.26)	(2542427.32,417245.00)	L42	9.985	N44° 54' 07.73"W	(2542410.47,417693.65)	(2542403.42,417700.72)
L31	130.600	N2° 46' 36.06"W	(2542445.31,416474.64)	(2542438.98,416605.09)	L37	53.022	N8° 23' 43.68"W	(2542427.32,417245.00)	(2542419.58,417297.45)					
L32	196.192	N0° 48' 14.64"W	(2542438.98,416605.09)	(2542436.23,416801.26)	L38	92.544	N0° 53' 05.84"W	(2542419.58,417297.45)	(2542418.15,417389.99)					
L33	218.061	N0° 42' 33.42"W	(2542436.23,416801.26)	(2542433.53,417019.30)	L39	207.819	N1° 29' 19.06"W	(2542418.15,417389.99)	(2542412.75,417597.73)					
L34	70.479	N1° 46' 09.12"W	(2542433.53,417019.30)	(2542431.35,417089.75)	L40	55.325	N1° 31' 39.65"W	(2542412.75,417597.73)	(2542411.28,417653.04)					
L35	58.536	N1° 29' 17.89"W	(2542431.35,417089.75)	(2542429.83,417148.26)	L41	40.613	N1° 08' 11.75"W	(2542411.28,417653.04)	(2542410.47,417693.65)					



REVISION		BY	DATE
KEY MAP - LINES A, B, & C			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 802 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 100'	DRAWN DESIGNED SURVEY	TW EA NP	4/2025 4/2025 11/2024
PROFILE SCALE:	PROJ. MGR.		
HORIZONTAL N/A	LEAD ENGR. FIELD MGR.		
VERTICAL N/A			
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ATLAS PAGE NO: 65 & 66		SHEET 15 OF 53 SHEETS	

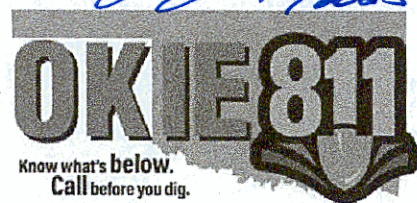
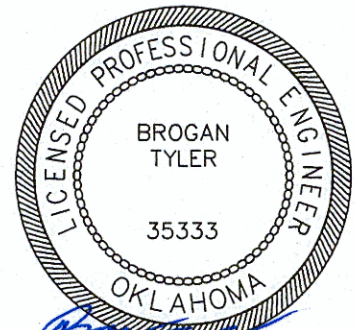
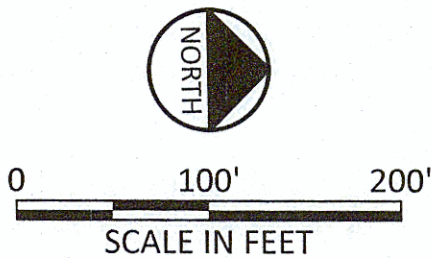
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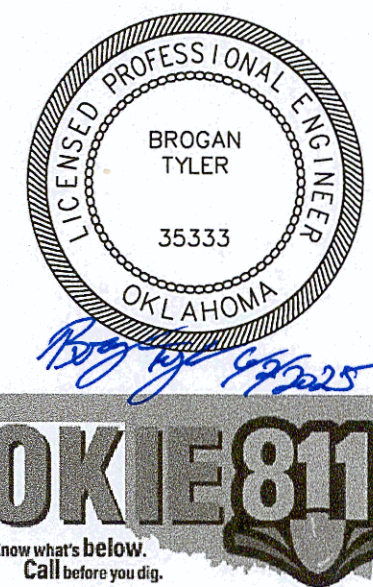
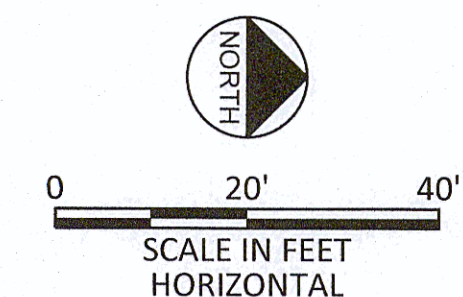
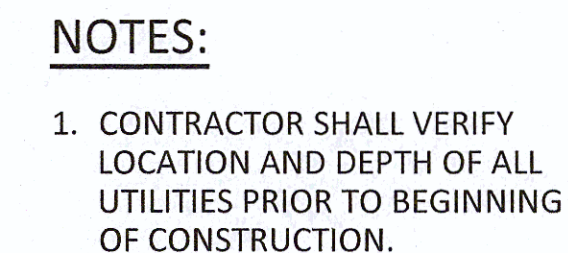
LINE 'E'				
Line #	Length	Direction	Start Point	End Point
L48	200.000	S89° 56' 57.49"E	(2541131.18,417022.85)	(2541331.18,417022.67)
L49	49.995	N89° 42' 22.29"E	(2541331.18,417022.67)	(2541381.17,417022.93)
L50	50.003	N89° 14' 37.06"E	(2541381.17,417022.93)	(2541431.17,417023.59)
L51	384.653	N88° 43' 27.92"E	(2541431.17,417023.59)	(2541815.73,417032.15)
L52	90.018	S89° 20' 41.41"E	(2541815.23,417068.09)	(2541905.25,417067.06)
L53	71.391	N88° 54' 32.96"E	(2541905.25,417067.06)	(2541976.62,417068.42)
L54	99.999	S88° 48' 34.99"E	(2541976.62,417068.42)	(2542076.60,417066.34)
L55	204.900	N88° 53' 32.45"E	(2542076.60,417066.34)	(2542281.46,417070.30)
L56	66.975	N89° 32' 42.01"E	(2542281.46,417070.30)	(2542348.43,417070.83)
L57	16.979	N43° 49' 01.95"E	(2542348.43,417070.83)	(2542360.19,417083.09)
L58	71.344	N88° 47' 24.88"E	(2542360.19,417083.09)	(2542431.52,417084.59)

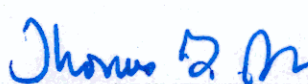
LINE 'F'				
Line #	Length	Direction	Start Point	End Point
L59	17.565	S45° 00' 00.00"E	(2541139.82,415707.04)	(2541152.24,415694.61)
L60	20.902	S89° 57' 33.15"E	(2541152.24,415694.61)	(2541173.14,415694.60)
L61	576.427	N88° 30' 55.62"E	(2541173.14,415694.60)	(2541749.37,415709.53)
L62	115.000	N88° 42' 11.61"E	(2541749.37,415709.53)	(2541864.35,415712.14)
L63	598.198	N88° 53' 39.92"E	(2541864.35,415712.14)	(2542462.43,415723.68)
L64	598.198	N88° 53' 39.92"E	(2541864.35,415712.14)	(2542462.43,415723.68)

LINE 'D'				
Line #	Length	Direction	Start Point	End Point
L43	12.878	N88° 42' 22.07"E	(2541802.36,417692.14)	(2541815.23,417692.43)
L44	181.858	N89° 01' 16.28"E	(2541815.23,417692.43)	(2541997.06,417695.54)
L45	135.782	N88° 42' 22.07"E	(2541997.06,417695.54)	(2542132.81,417698.61)
L46	138.643	N89° 56' 45.63"E	(2542132.81,417698.61)	(2542271.45,417698.74)
L47	131.983	N89° 08' 24.89"E	(2542271.45,417698.74)	(2542403.42,417700.72)



REVISION		BY	DATE
KEY MAP - LINES D, E, & F			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 100'	DRAWN	TW	4/2025
	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	<i>[Signature]</i>	<i>06/06/25</i>
HORIZONTAL N/A	LEAD ENGR.	<i>[Signature]</i>	<i>6/25</i>
	FIELD MGR.	MV	6/2025
VERTICAL N/A	<i>[Signature]</i> DESIGN MANAGER		
FILE: GN-ALL-PL-MAPS.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 16 OF 53 SHEETS



REVISION		BY	DATE
DEMOLITION & RESTORATION PLAN - LINE A BEGIN TO STA 20+00			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE:	DRAWN	TW	4/2025
1" = 20'	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	JS 06/2025	
	LEAD ENGR.	BOW 6/25	
HORIZONTAL N/A	FIELD MGR.	MV 6/2025	
VERTICAL N/A			 DESIGN MANAGER
FILE: GN-ALL-PL-DEMO.dwg	DATE:		
ATLAS PAGE NO: 65 & 66		SHEET 18 OF 53 SHEETS	

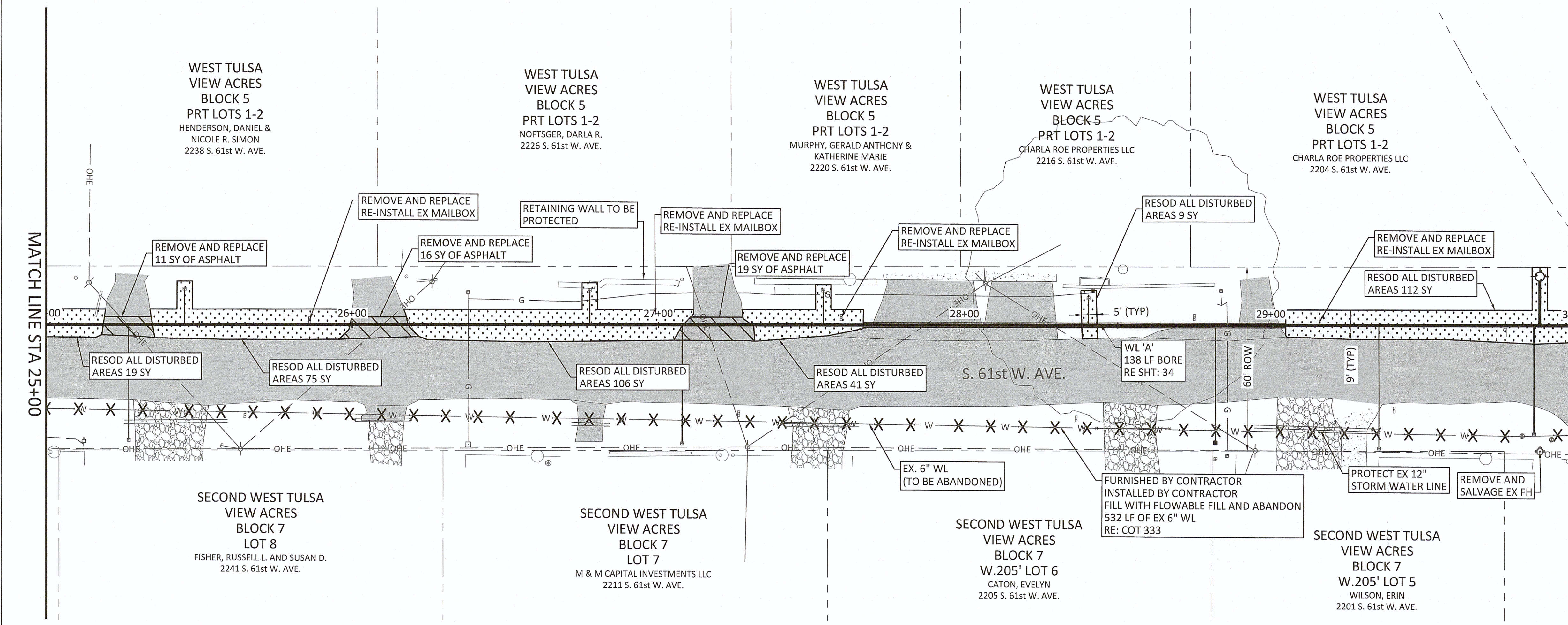
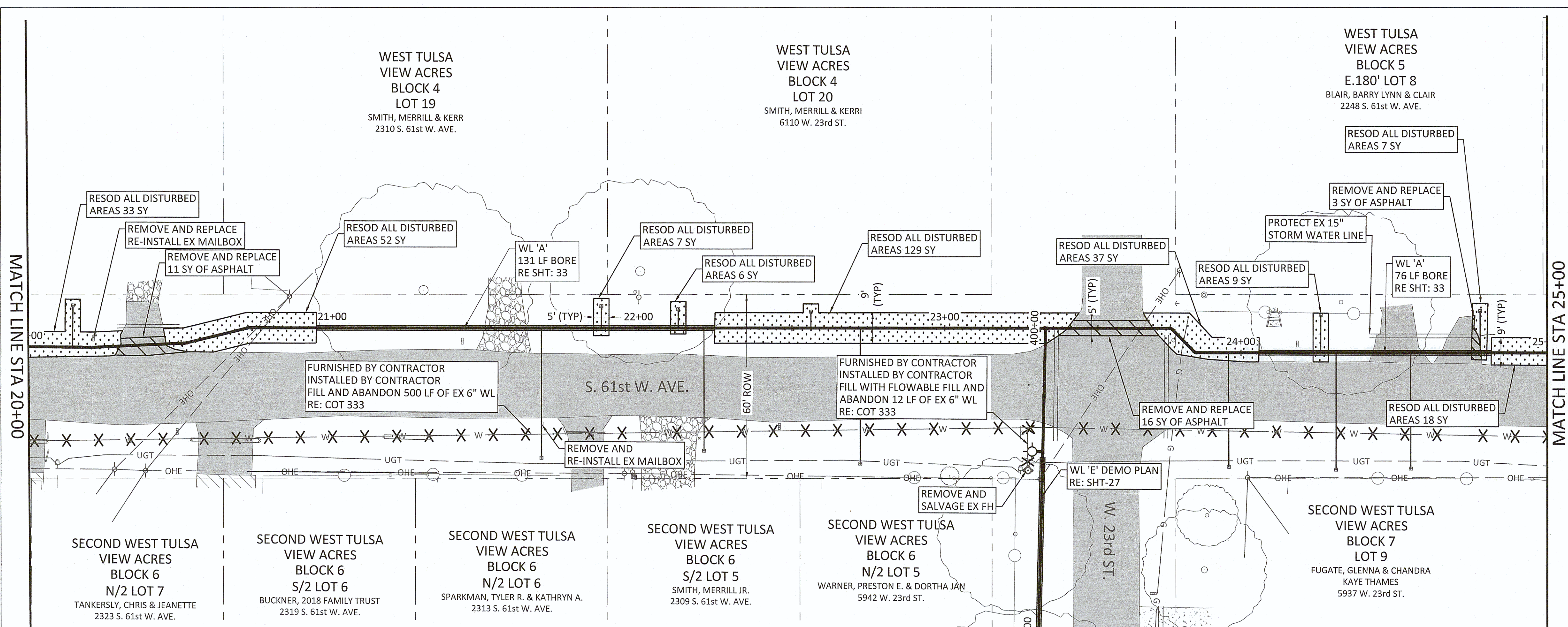
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MATCH LINE STA 20+00

MATCH LINE STA 25+00

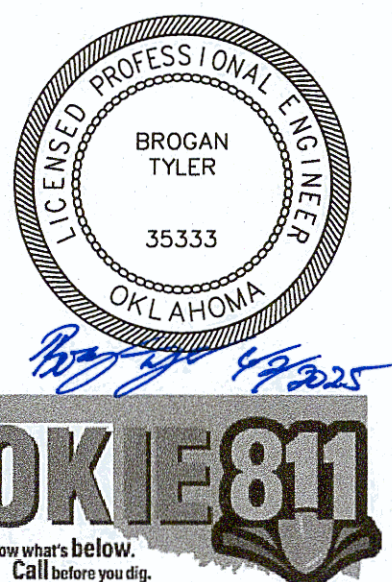
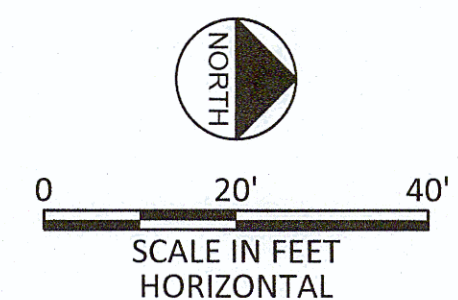
MATCH LINE STA 25+00

MATCH LINE STA 30+00



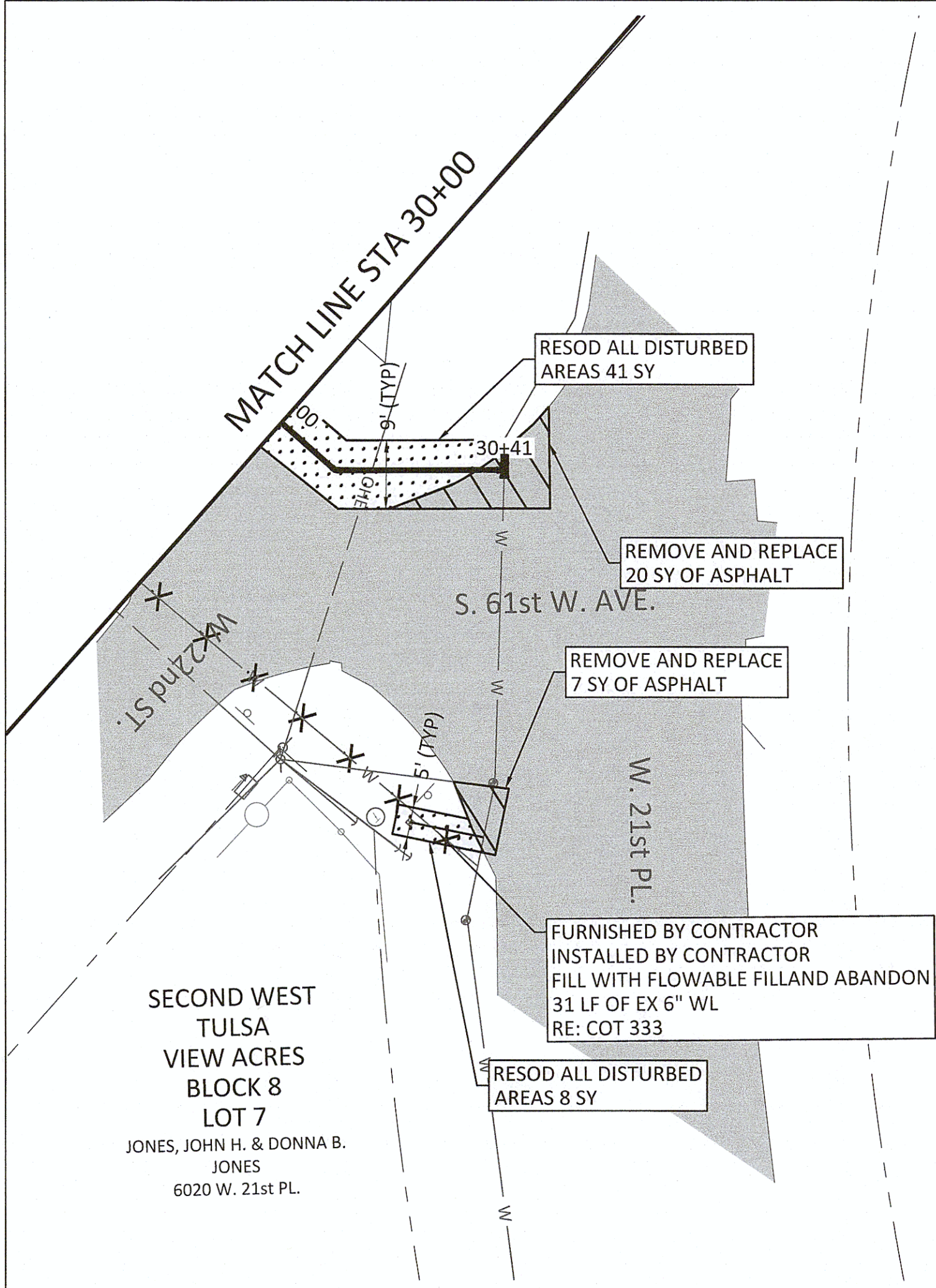
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.

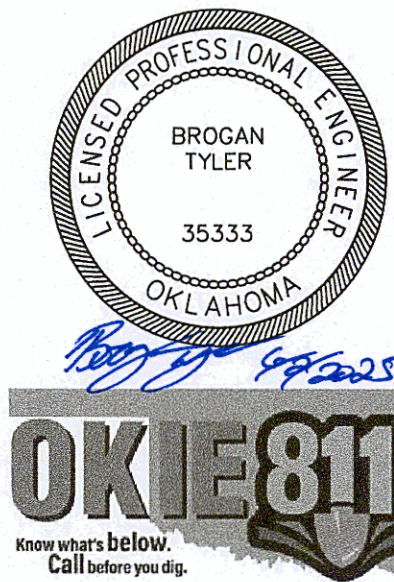
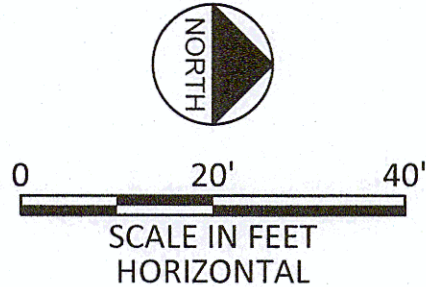


REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE A STA 20+00 TO STA 30+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-9677
PLAN SCALE: 1" = 20'	DRAWN SURVEY	TW NP
PROFILE SCALE: N/A	PROJ. MGR. LEAD ENGR. FIELD MGR.	4/2025 4/2025 11/2024
VERTICAL N/A	APPROVED: DESIGN MANAGER	
FILE: GN-ALL-PL-DEMO.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 19 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-PL-DEMO.dwg

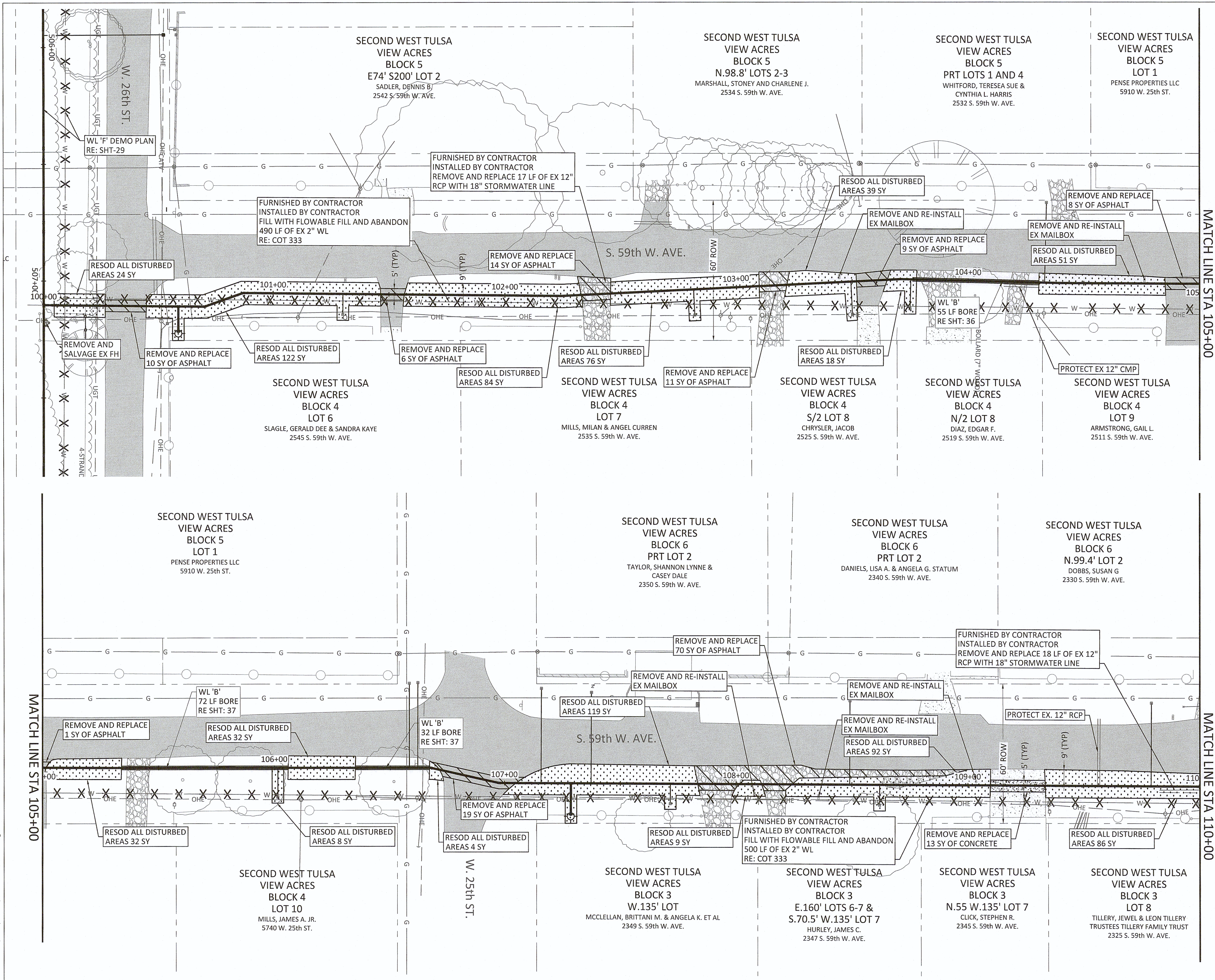


- NOTES:**
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



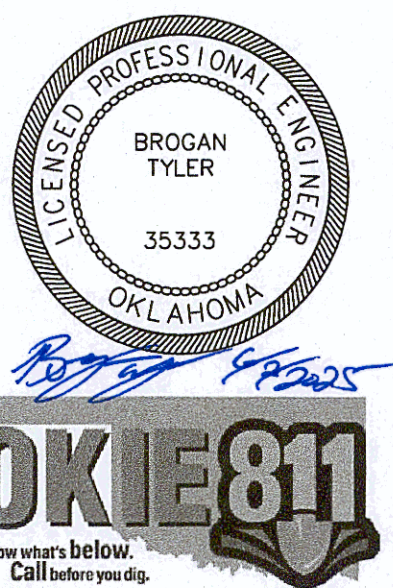
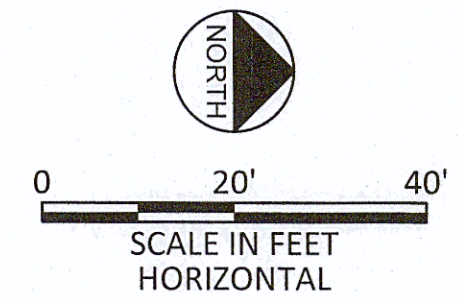
REVISION		BY	DATE	
DEMOLITION & RESTORATION PLAN - LINE A STA 30+00 TO END				
PROJECT NO. TMUA-W_21-02 TO#12				
BERRYHILL WATER LINE REPLACEMENT				
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT				
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677		
PLAN SCALE: 1" = 20'	DRAWN	TW	4/2025	
	DESIGNED	EA	4/2025	
	SURVEY	NP	11/2024	
PROFILE SCALE:	PROJ. MGR.	<i>B. Nichols</i>		
HORIZONTAL N/A	LEAD ENGR.	<i>CM For</i>		
	FIELD MGR.	<i>RV 6/2025</i>		
VERTICAL N/A			<i>Thomas D. My</i> DESIGN MANAGER	
FILE: GN-ALL-PL-DEMO.dwg				
ATLAS PAGE NO: 65 & 66				
		SHEET	20 OF 53 SHEETS	

Filename: N:\WTU\Sheet\GN-ALL-PL-DEMO.dwg



NOTES:

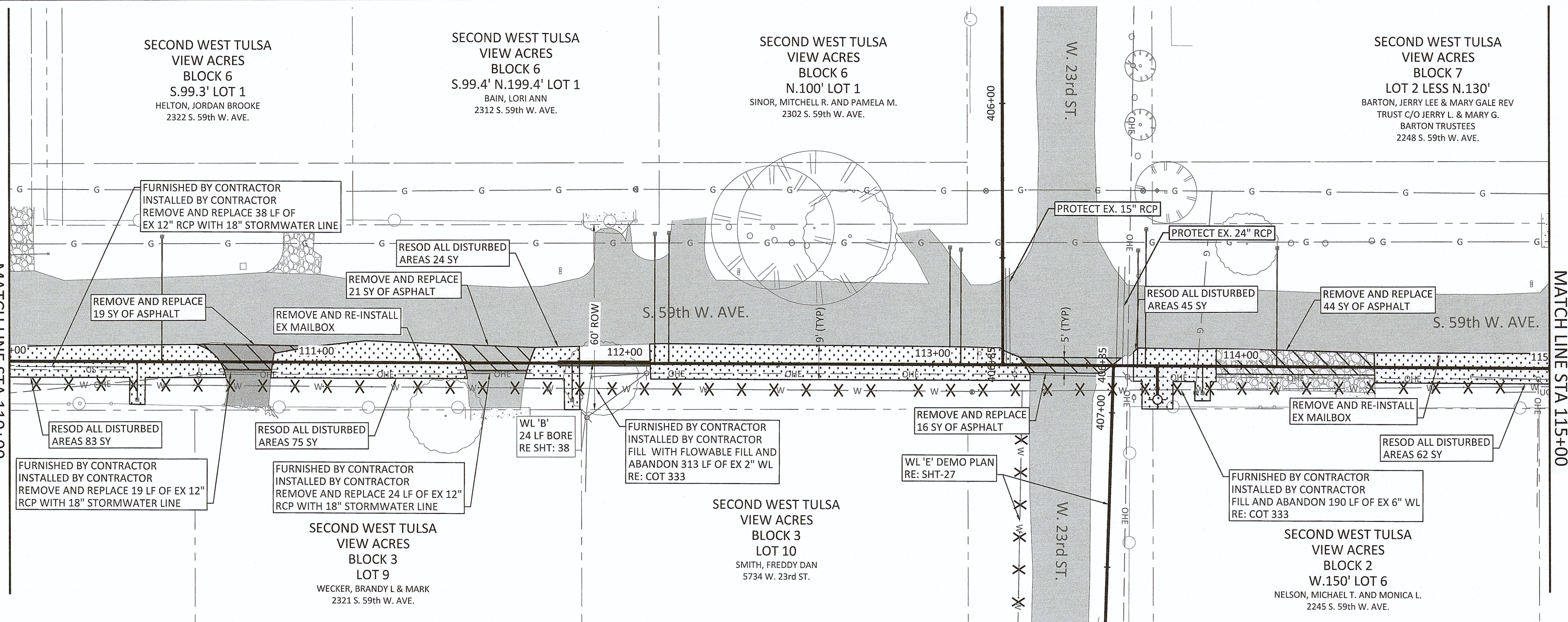
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE B BEGIN TO STA 110+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-9677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: N/A	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: 6/25/25 6/25/25 6/25/25
HORIZONTAL N/A	DESIGN MANAGER J. M. M.	
VERTICAL N/A	DATE: 	
FILE: GN-ALL-PL-DEMO.dwg		
ATLAS PAGE NO: 65 & 66		SHEET 21 OF 53 SHEETS

Filename: N:\W\U\Sheets\GN-ALL-PL-DEMO.dwg

MATCH LINE STA 110+00

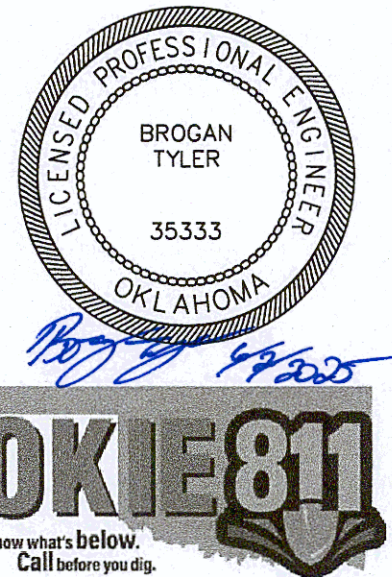
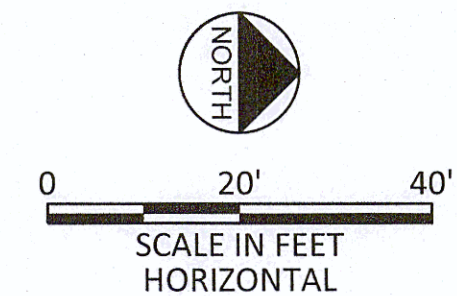
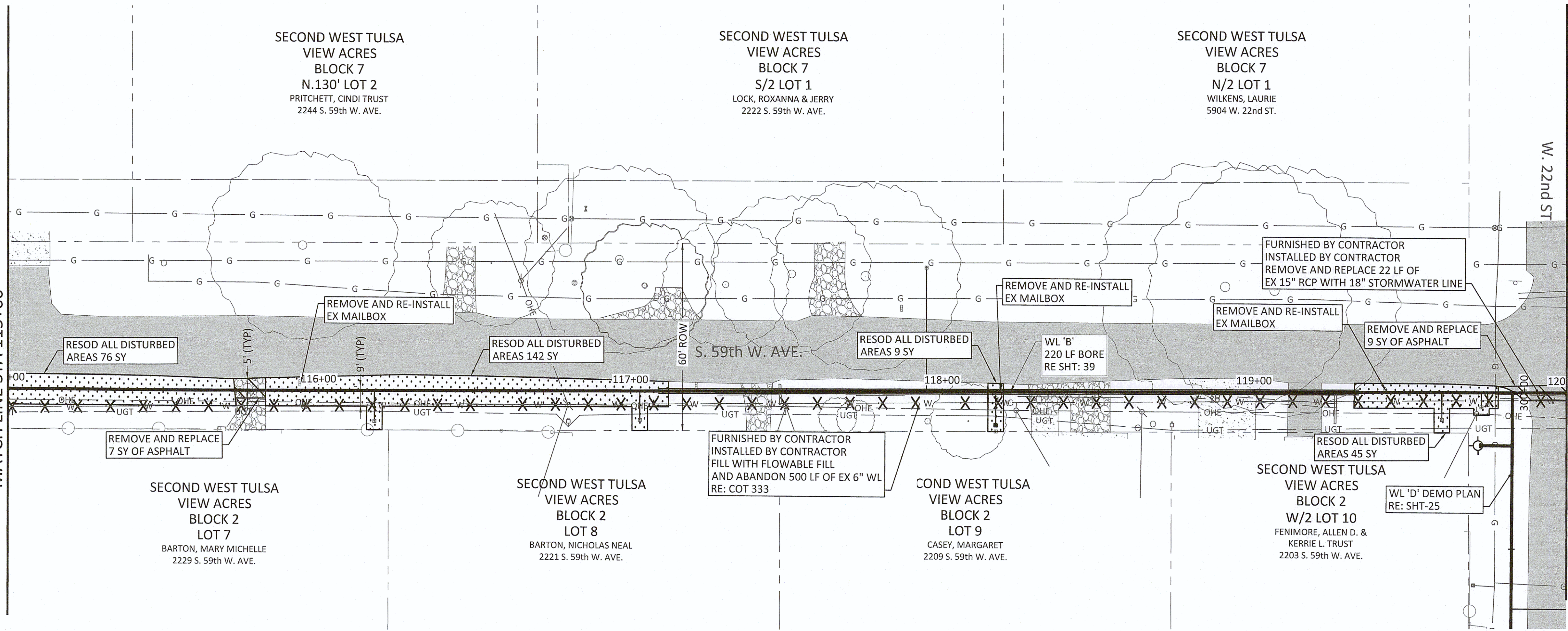


NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.

MATCH LINE STA 115+00

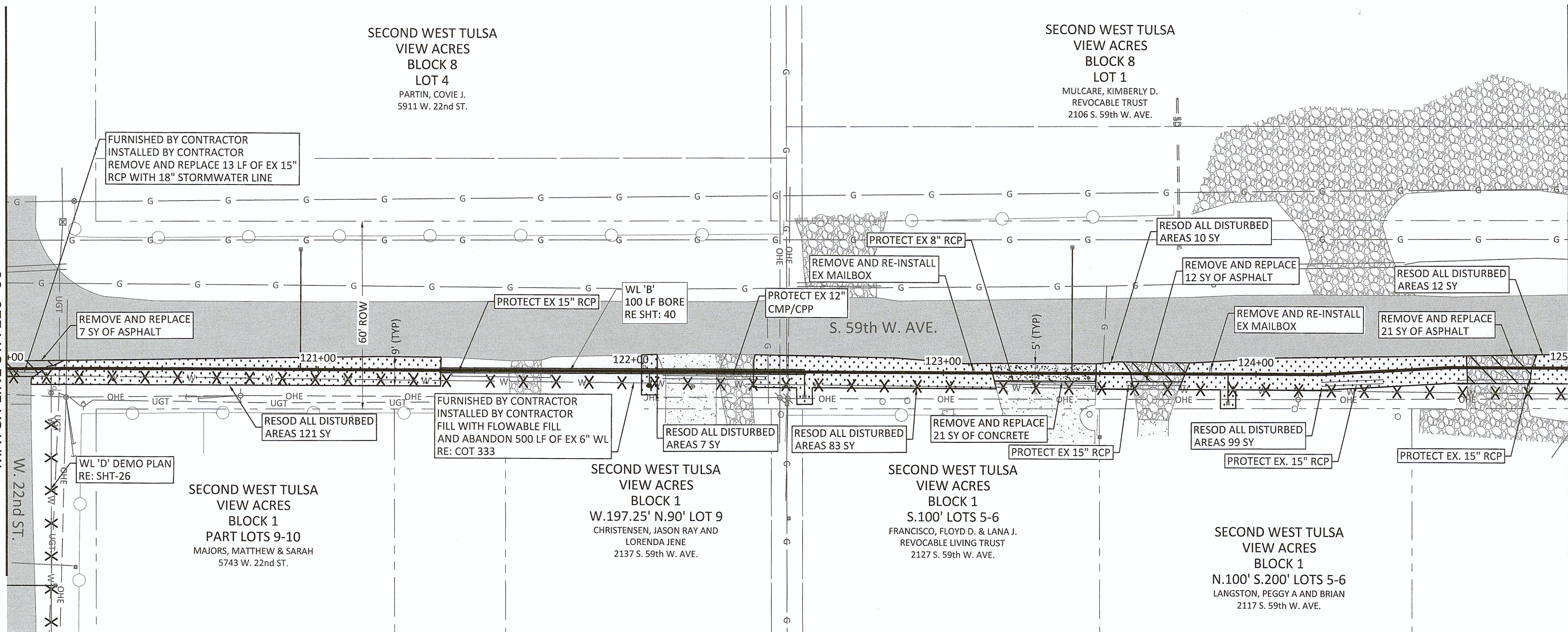
MATCH LINE STA 115+00



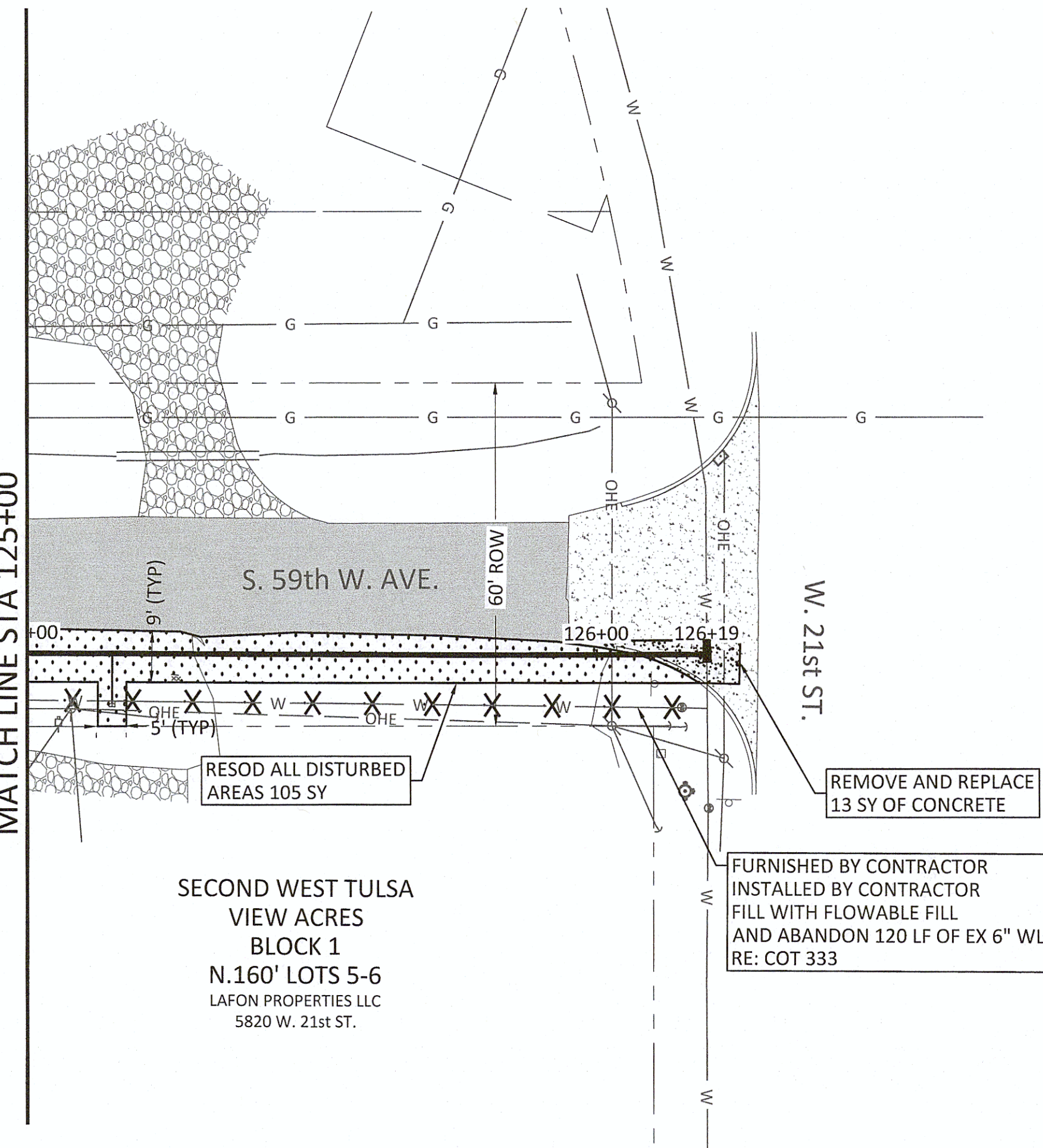
REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE B STA 110+00 TO STA 120+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE:	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: [Signature] [Signature] [Signature] 6/16/25 6/16/25
HORIZONTAL N/A	DESIGN MANAGER	
VERTICAL N/A	DATE:	
FILE: GN-ALL-PL-DEMO.dwg		
ATLAS PAGE NO: 65 & 66		SHEET 22 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-PL-DEMO.dwg

MATCH LINE STA 120+00

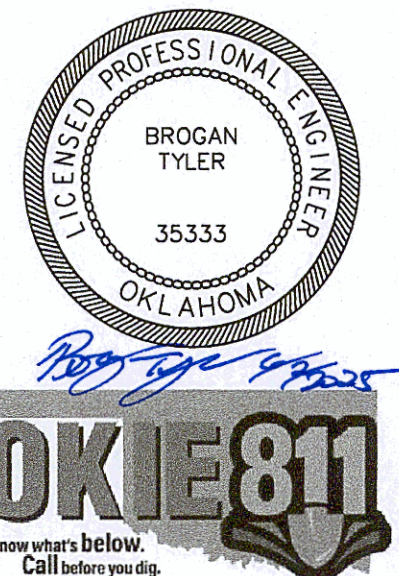
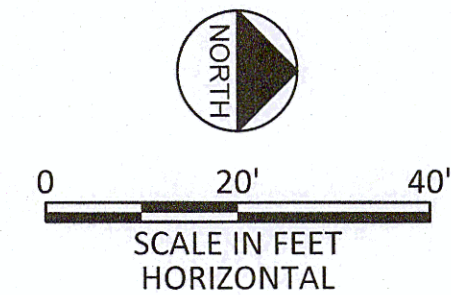


MATCH LINE STA 125+00



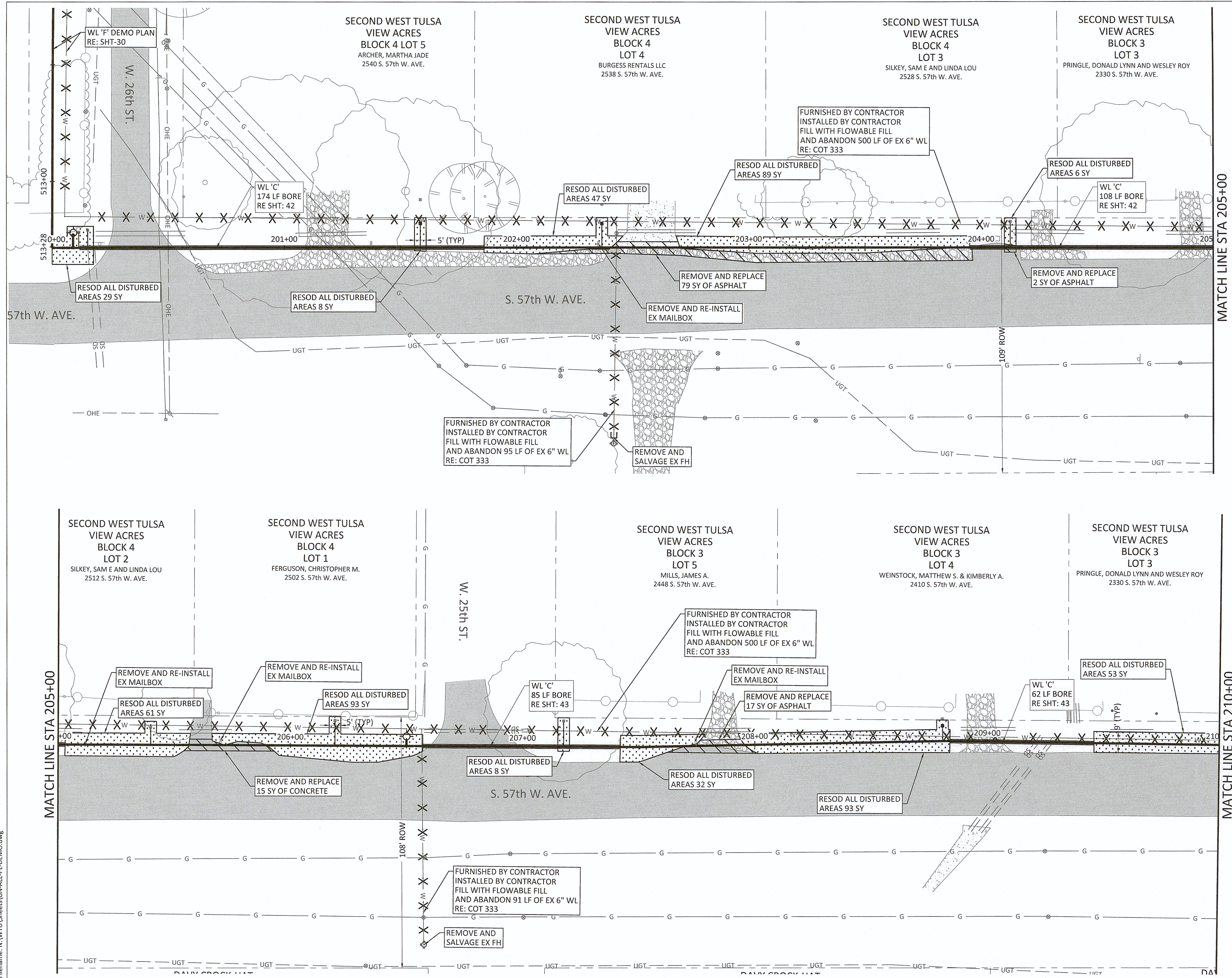
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



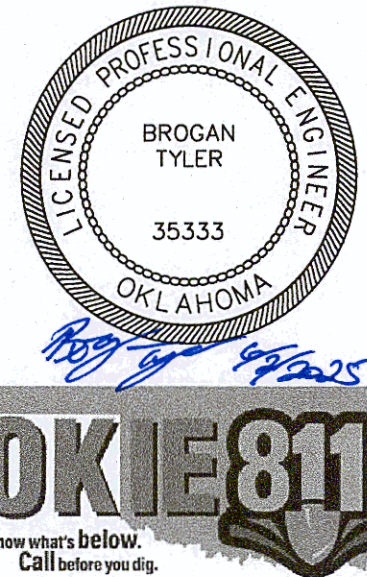
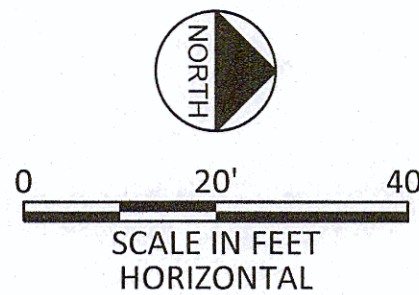
REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE B STA 120+00 TO END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE:	PROJ. MGR.	APPROVED: <i>[Signature]</i> DESIGN MANAGER
HORIZONTAL N/A	LEAD ENGR. FIELD MGR.	<i>[Signature]</i> 6/25 6/25
VERTICAL N/A		
FILE: GN-ALL-PL-DEMO.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 23 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-PL-DEMO.dwg



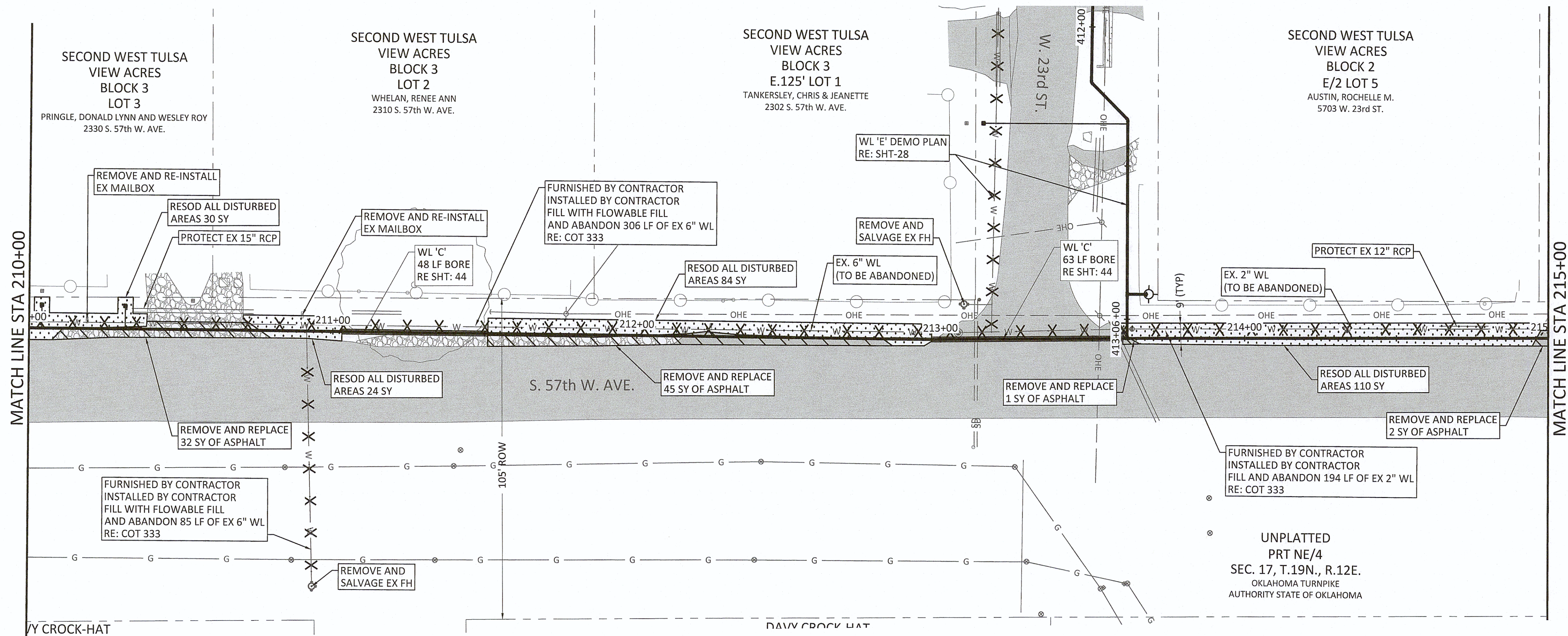
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



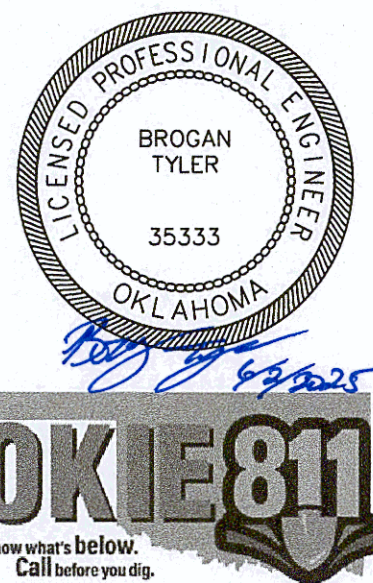
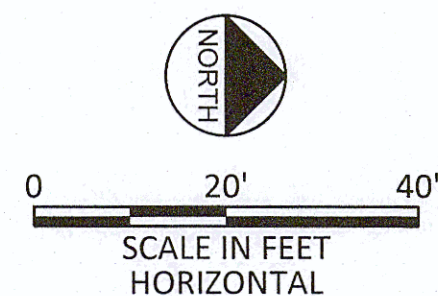
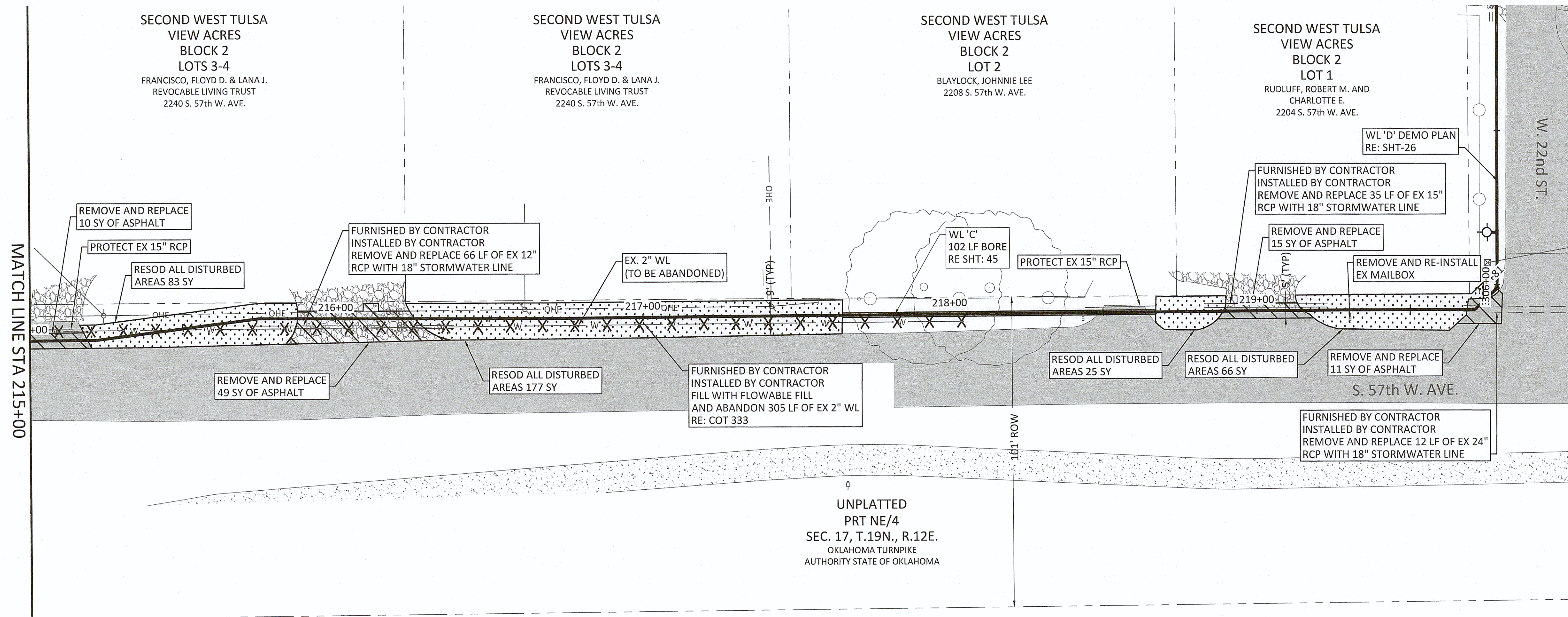
REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE C BEGIN TO STA 210+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE:	PROJ. MGR.	APPROVED: [Signature] DESIGN MANAGER
HORIZONTAL N/A	LEAD ENGR. FIELD MGR.	[Signature] 6/25 6/2025
VERTICAL N/A		
FILE: GN-ALL-PL-DEMO.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 24 OF 53 SHEETS

Filename: N:\VTU\Sheets\GN-ALL-PL-DEMO.dwg



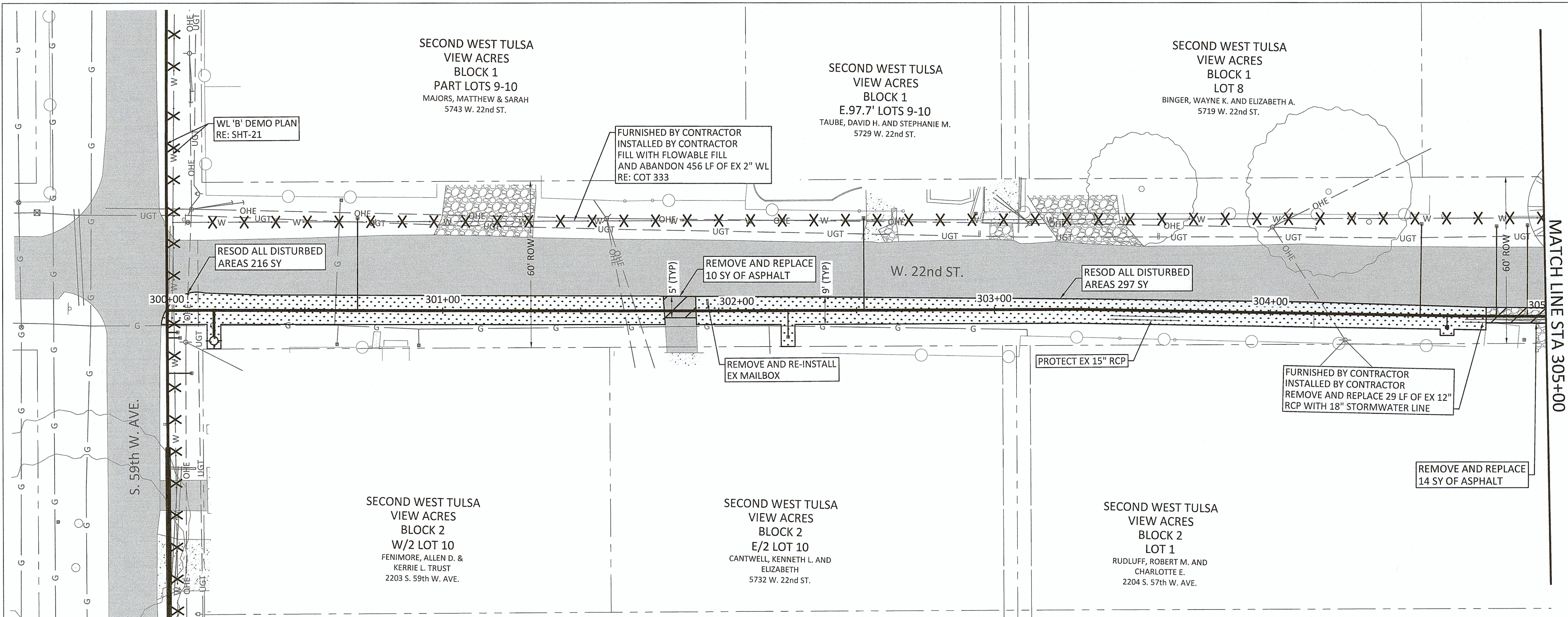
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



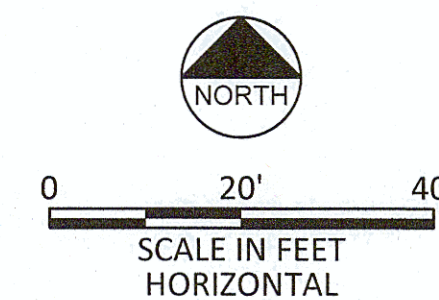
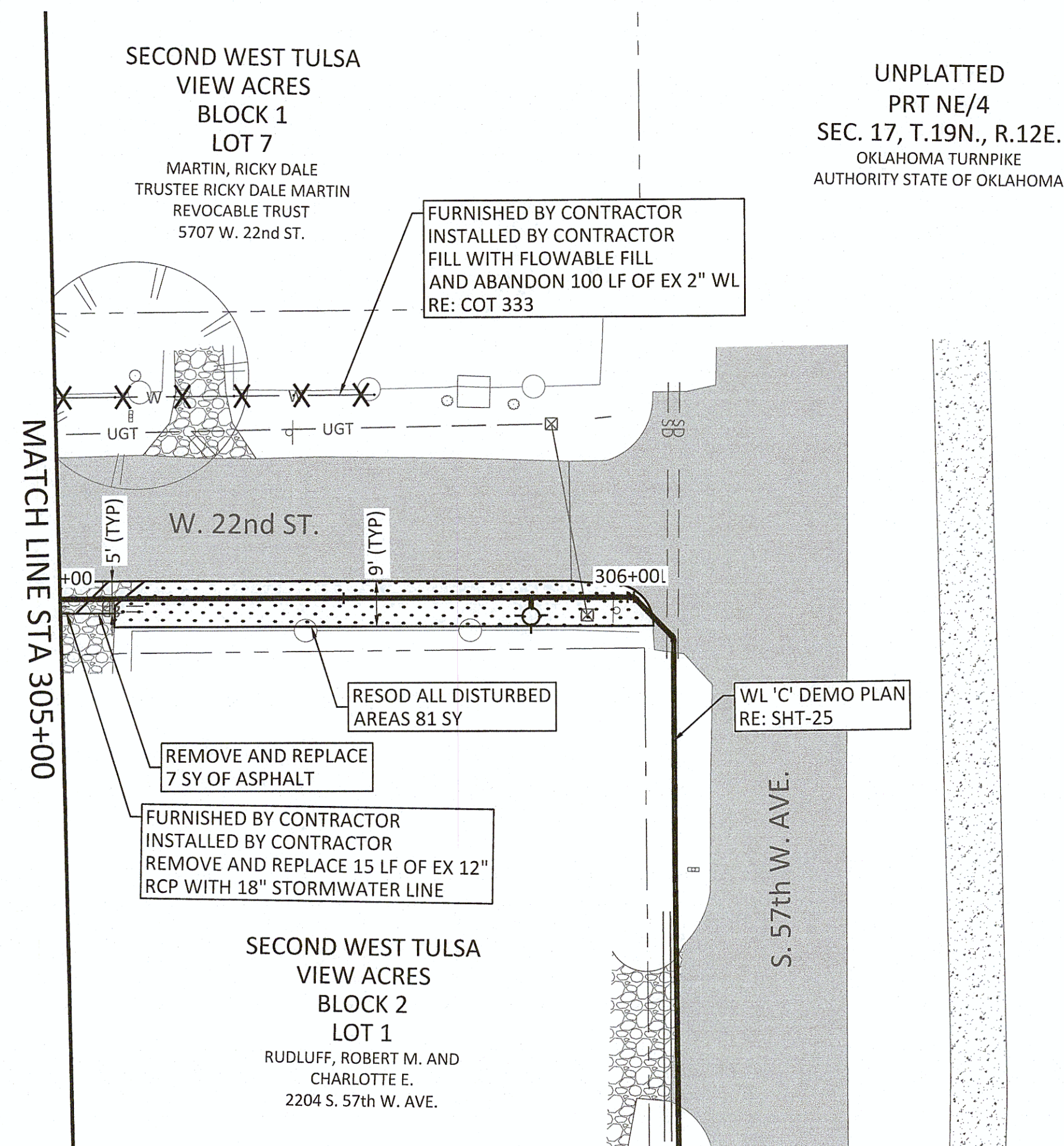
REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE C STA 210+00 TO END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 802 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: N/A	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: <i>[Signature]</i> 6/25/25 6/25/25 6/25/25
VERTICAL N/A	DESIGN MANAGER <i>[Signature]</i>	
FILE: GN-ALL-PL-DEMO.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 25 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-PL-DEM001.dwg



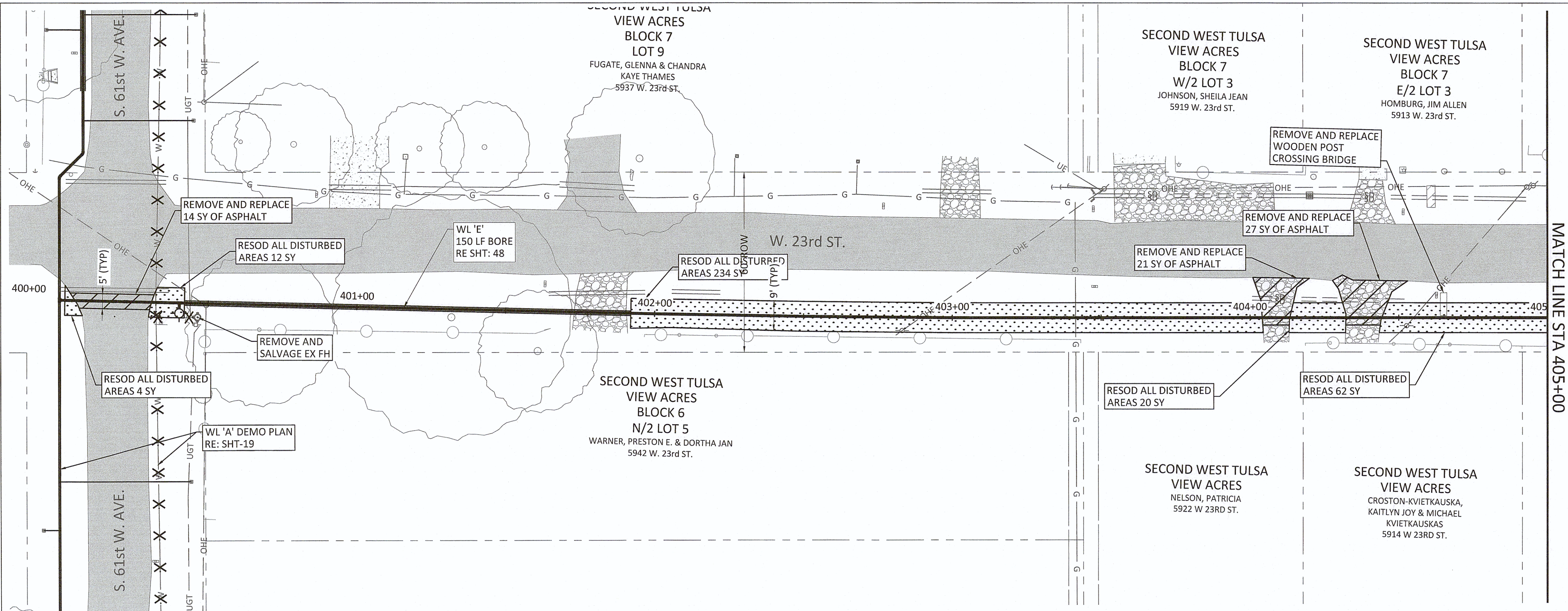
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



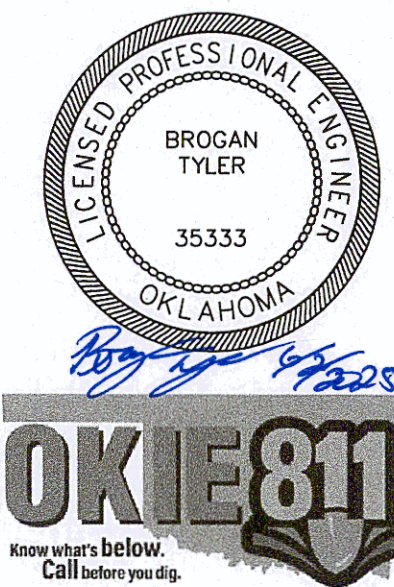
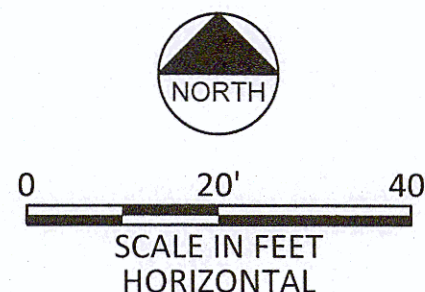
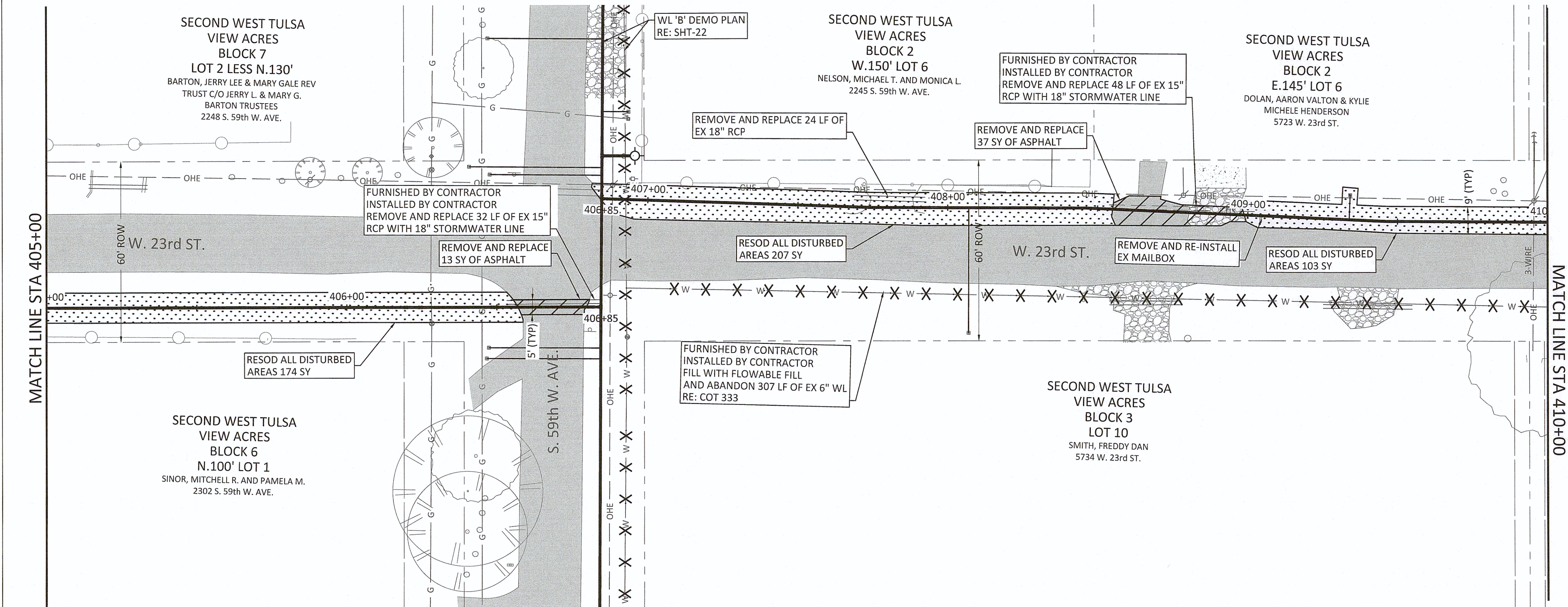
REVISION		BY	DATE
DEMOLITION & RESTORATION PLAN - LINE D BEGIN TO END			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 20'	DRAWN	TW	4/2025
	DESIGNED	EA	4/2025
PROFILE SCALE:	SURVEY	NP	11/2024
	PROJ. MGR.	JB	10/2025
HORIZONTAL N/A	LEAD ENGR.	CAW	6/25
	FIELD MGR.	MV	6/2025
VERTICAL N/A	J. D. [Signature] DESIGN MANAGER		
FILE: GN-ALL-PL-DEM001.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 26 OF 53 SHEETS

Filename: N:\VTU\Sheet\GN-ALL-PL-DEM001.dwg



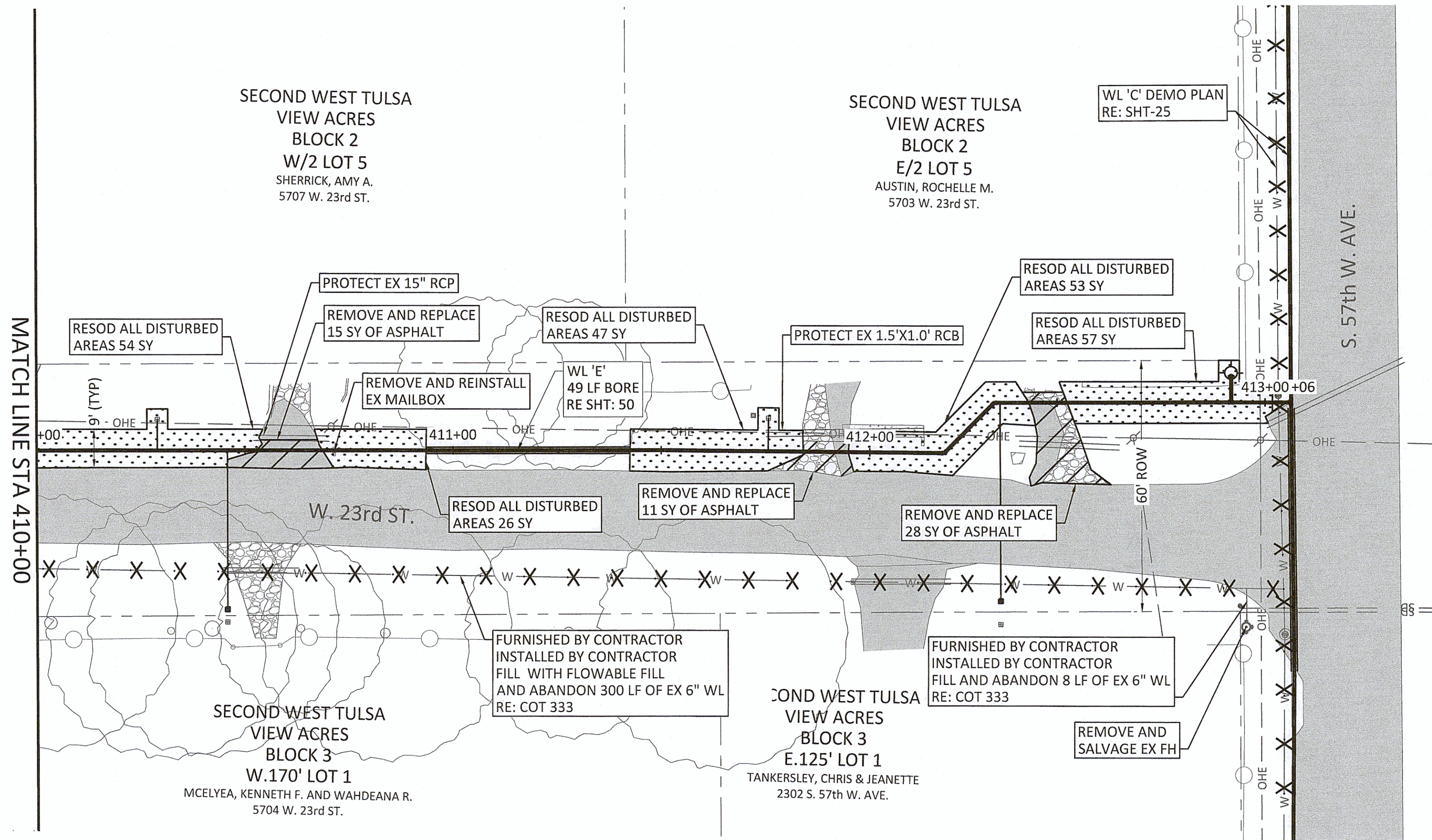
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



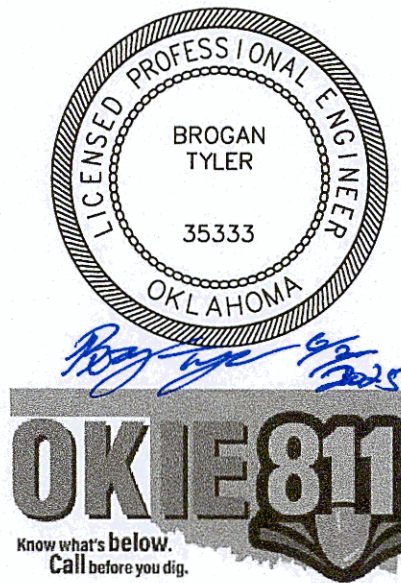
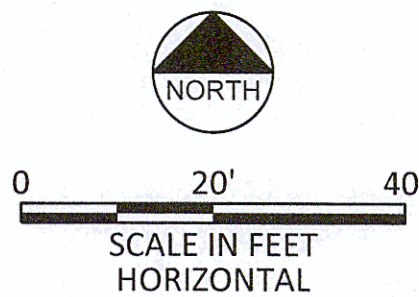
REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE E BEGIN TO STA 409+50		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8877
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: HORIZONTAL N/A	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: 6/1/25 6/2/2025
VERTICAL N/A	DESIGN MANAGER	DATE: SHEET 27 OF 53 SHEETS
FILE: GN-ALL-PL-DEM001.dwg		ATLAS PAGE NO: 65 & 66

Filename: N:\WTU\Sheets\GN-ALL-PL-DEMO01.dwg



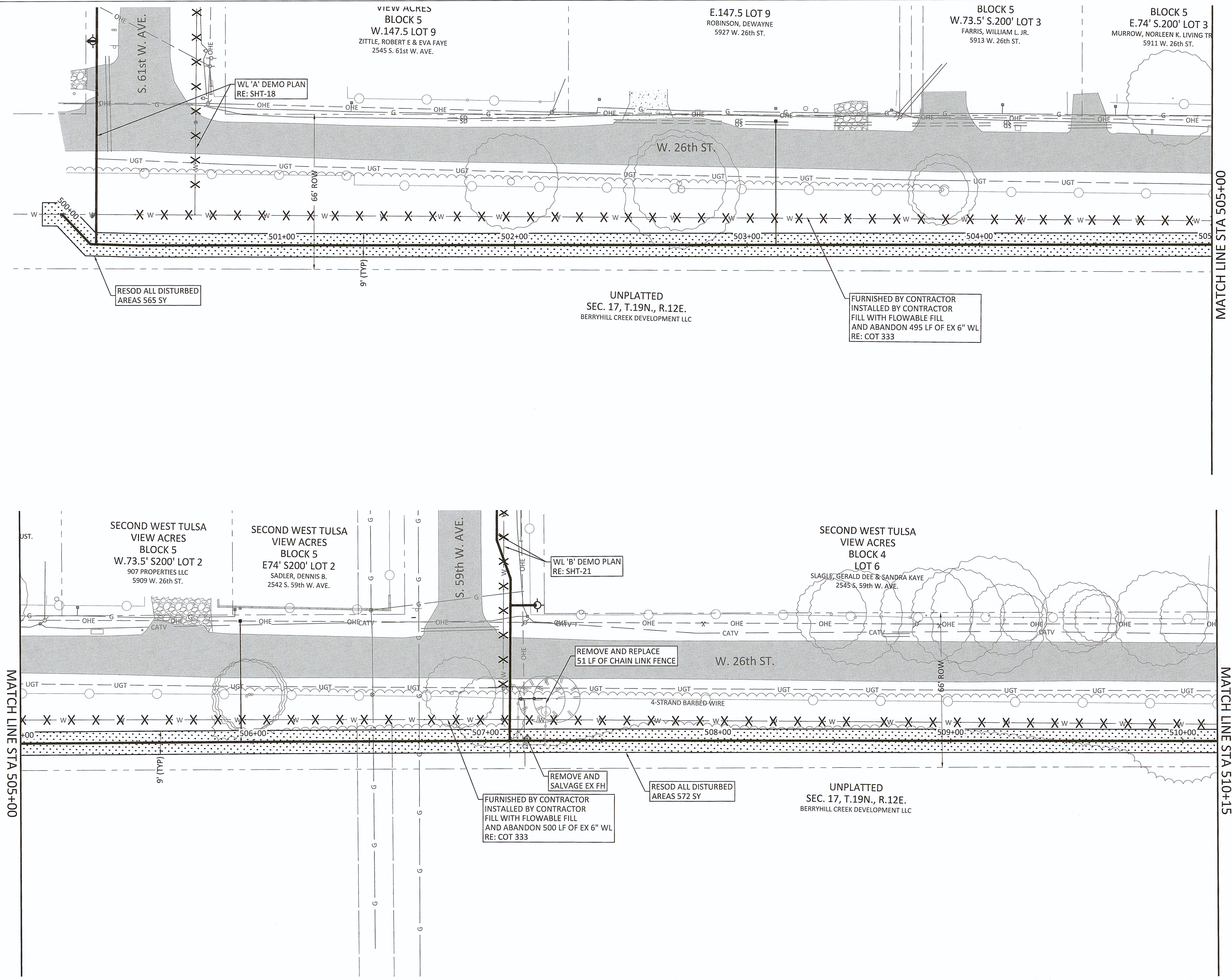
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.

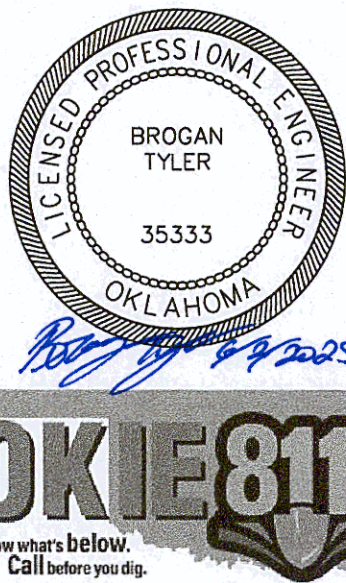
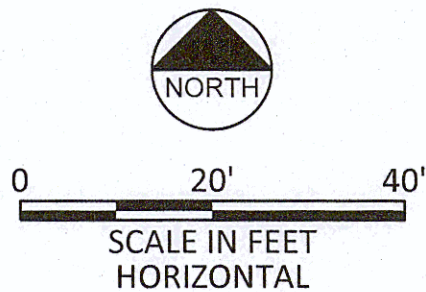


REVISION	BY	DATE
DEMOLITION & RESTORATION PLAN - LINE E STA 409+50 TO END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC. 5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (538) 444-8877		
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: HORIZONTAL N/A	PROJ. MGR. LEAD ENGR. FIELD MGR.	<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i> 6/25 6/2025
VERTICAL N/A		<i>[Signature]</i> DESIGN MANAGER
FILE: GN-ALL-PL-DEMO01.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 28 OF 53 SHEETS

Filename: N:\WTU\Sheets\GN-ALL-PL-DEM001.dwg



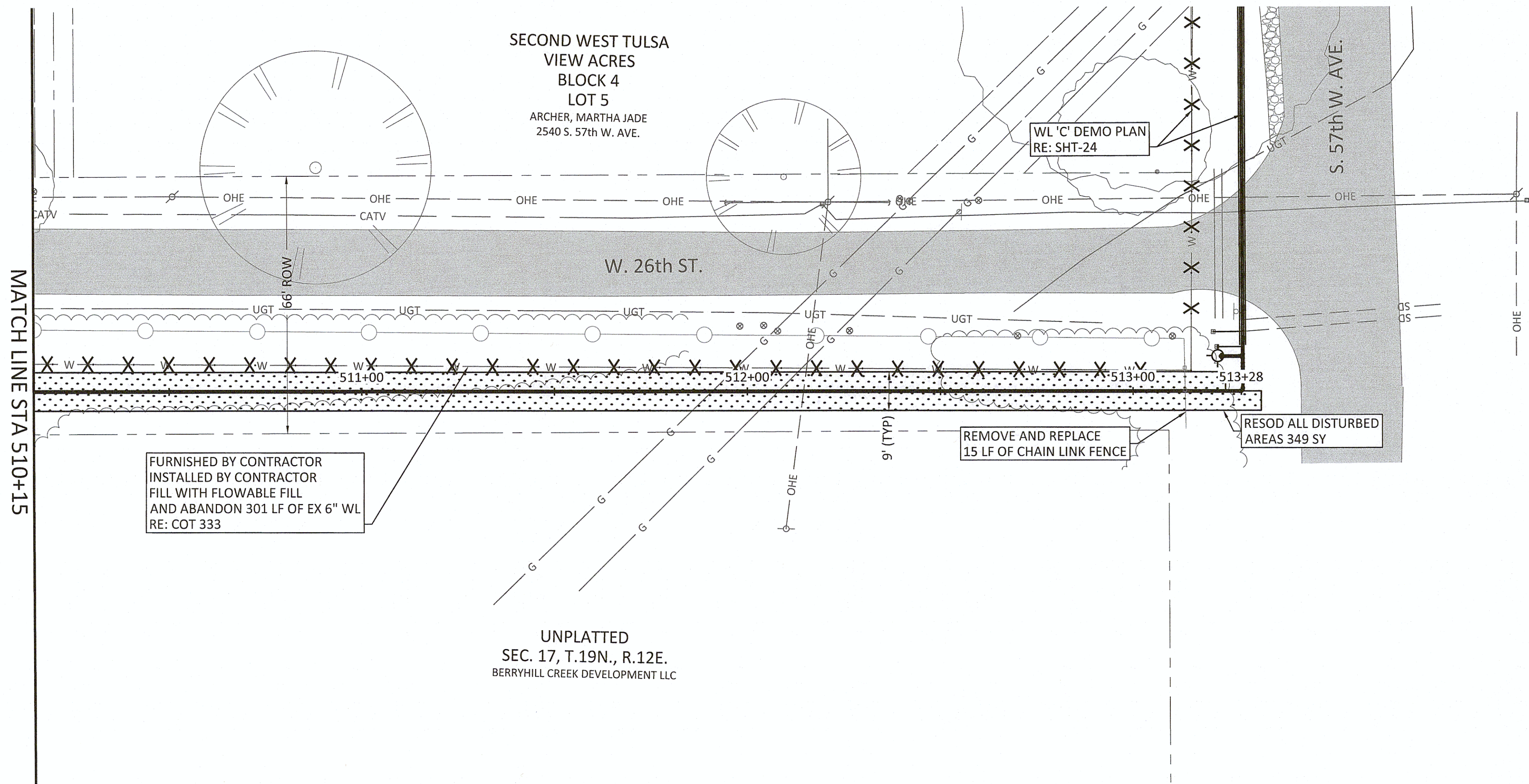
- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



REVISION		BY	DATE
DEMOLITION & RESTORATION PLAN - LINE F BEGIN TO STA 510+00			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 20'	DRAWN	TW	4/2025
	DESIGNED	EA	4/2025
PROFILE SCALE:	SURVEY	NP	11/2024
	PROJ. MGR.	BS	6/6/25
HORIZONTAL N/A	LEAD ENGR.	WJ	6/25
	FIELD MGR.	MV	6/2025
VERTICAL N/A			
FILE: GN-ALL-PL-DEM001.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 29 OF 53 SHEETS

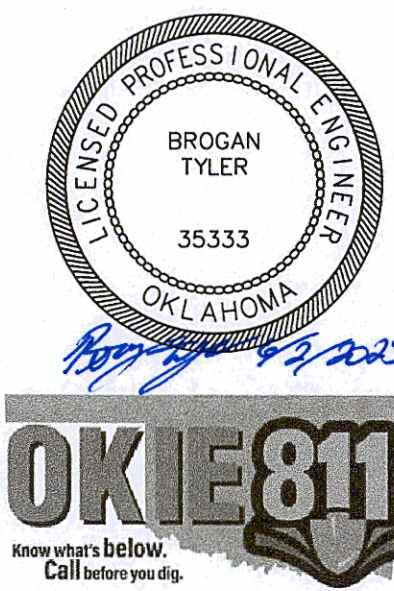
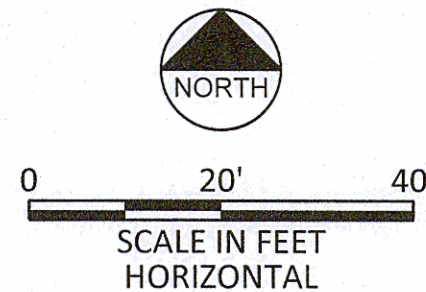
BERRYHILL WATER LINE REPLACEMENT PROJECT NO. TMUA-W 21-02 TO#12

Filename: N:\WTU\Sheets\GN-ALL-PL-DEMO01.dwg

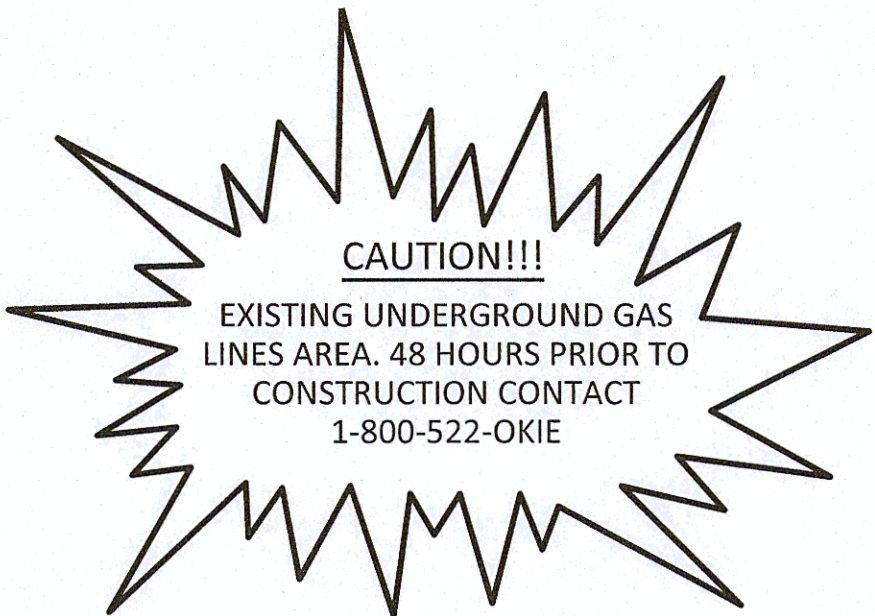


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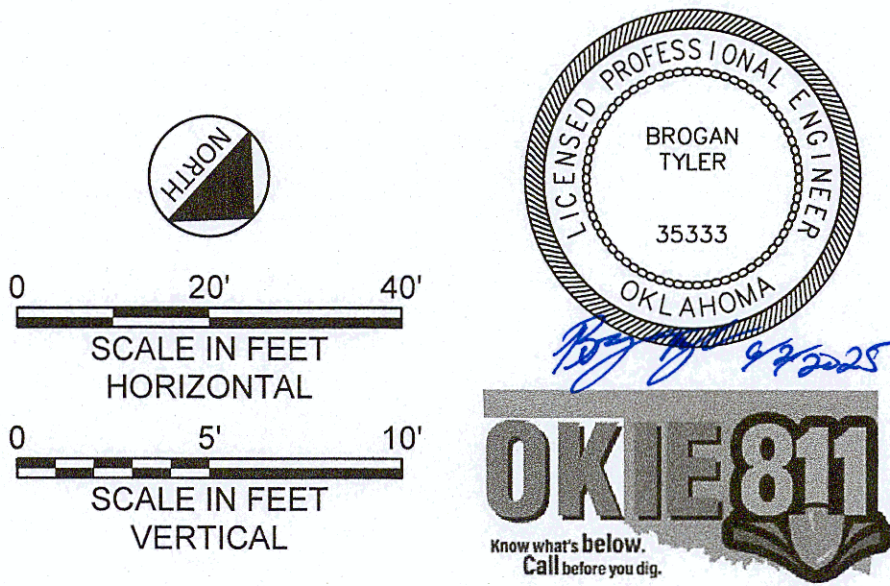
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.



REVISION		BY	DATE
DEMOLITION & RESTORATION PLAN - LINE F STA 510+00 TO END			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 20'	DRAWN	TW	4/2025
	DESIGNED	EA	4/2025
PROFILE SCALE:	SURVEY	NP	11/2024
	PROJ. MGR.	JB	6/1/2025
HORIZONTAL N/A	LEAD ENGR.	EW	6/1/25
	FIELD MGR.	MV	6/2025
VERTICAL N/A			
FILE: GN-ALL-PL-DEMO01.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 30 OF 53 SHEETS

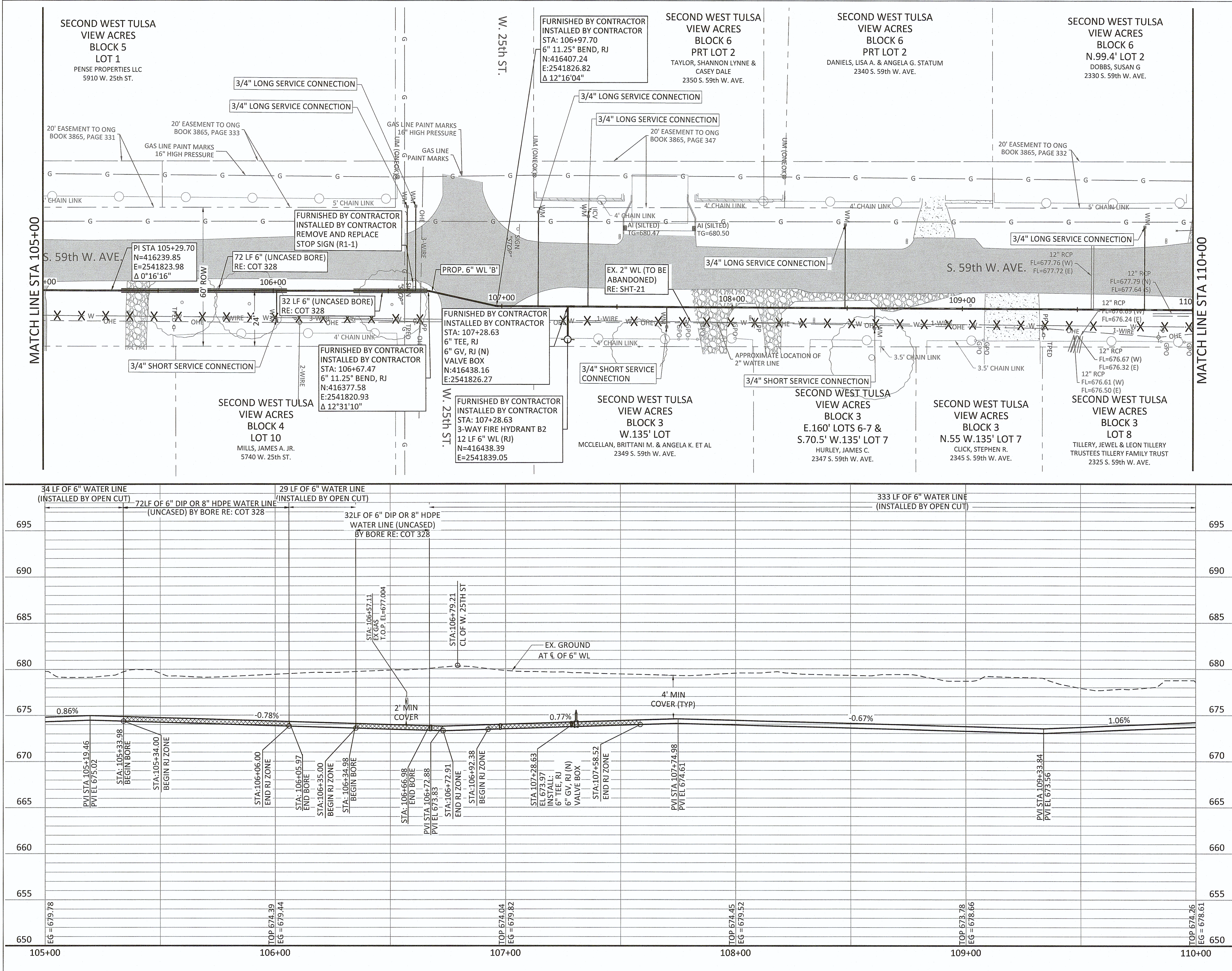
[illegible]

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
3. CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION DISTANCE OF 2' BETWEEN EXISTING AND PROPOSED WATER LINES. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS OF THE EXISTING LINE FOR DAMAGES MADE DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT AND SUPPORT ALL OVERHEAD UTILITIES.
5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING AND PROPOSED WATER SERVICE CONNECTIONS AND SIZES PRIOR TO INSTALLATION. SERVICE CONNECTIONS LOCATED BEYOND NEAR PROXIMITY TO THE PROPERTY BOUNDARY OR OUTSIDE OF THE ROW SHALL BE RELOCATED TO 2' FROM ITS RESPECTIVE PROPERTY LINE WITHIN ROW. PRIVATE SERVICE CONNECTIONS ARE TO BE MADE BY A LICENSED PLUMBER.



REVISION		BY	DATE
LINE 'A' PLAN AND PROFILE STA 30+00 TO END			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (530) 444-8877	
PLAN SCALE:	DRAWN	TW	4/2025
1" = 20'	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	B	06/2025
HORIZONTAL 1" = 20'	LEAD ENGR.	PRW	6/25
	FIELD MGR.	NV	6/2025
VERTICAL 1" = 5'			
FILE: TU-WAT-PP-WTRL01.dwg		DATE:	
ATLAS PAGE NO: 65 & 66		SHEET 35 OF 53 SHEETS	

Filename: N:\W\TU\Sheets\TU-WAT-PP-WTRL01.dwg

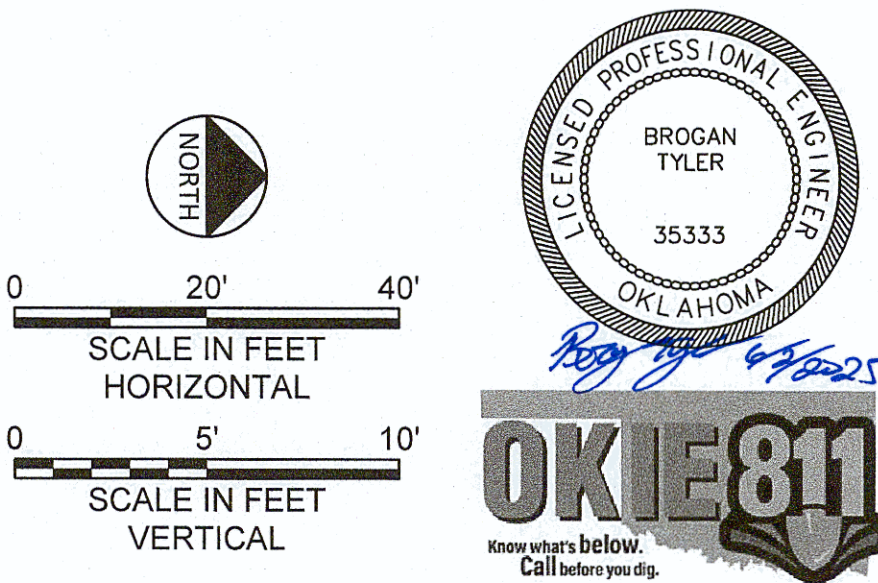


SERVICE CONNECTIONS	
LONG	6
SHORT	3



NOTES:

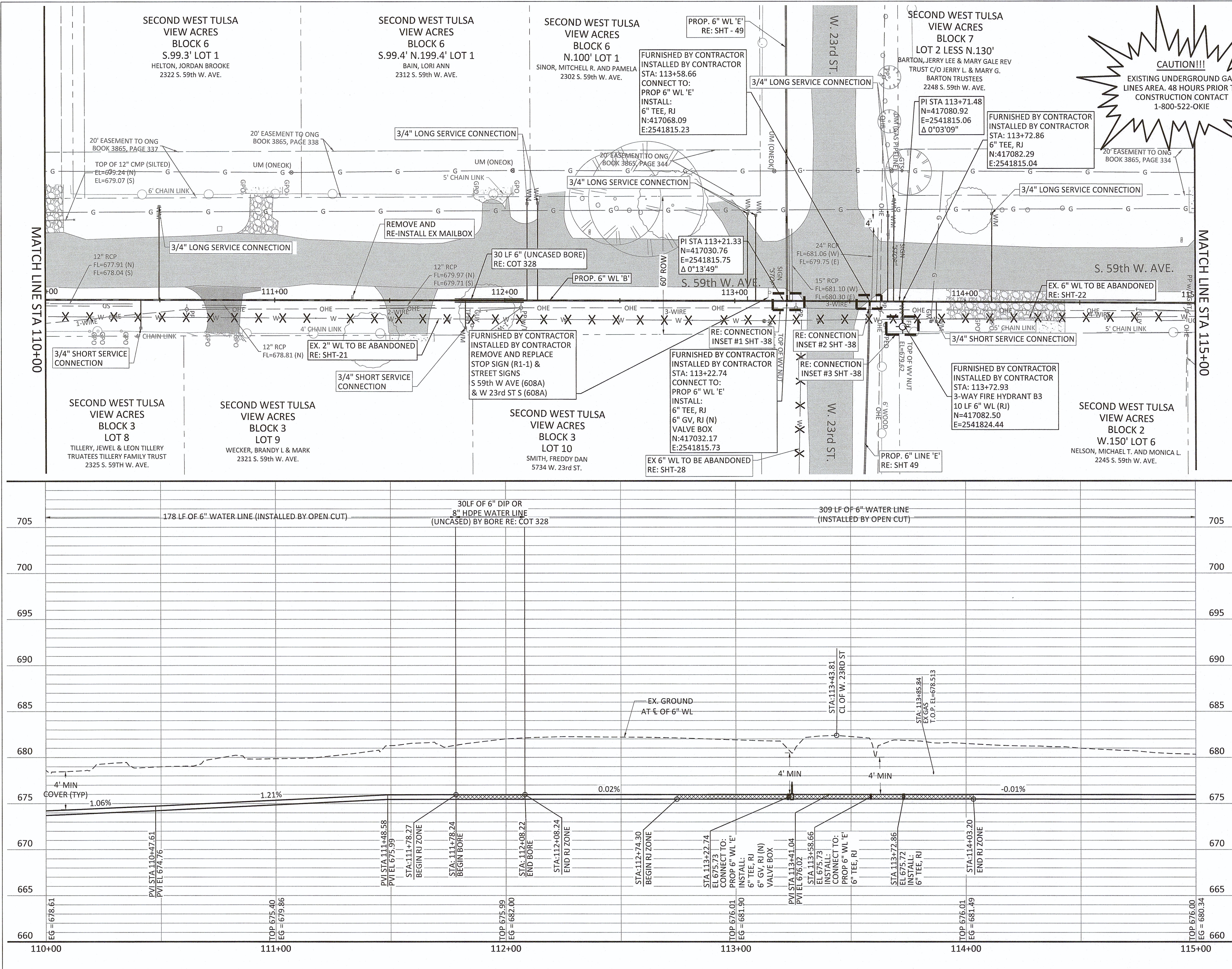
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION DISTANCE OF 2' BETWEEN EXISTING AND PROPOSED WATER LINES. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS OF THE EXISTING LINE FOR DAMAGES MADE DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT AND SUPPORT ALL OVERHEAD UTILITIES.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING AND PROPOSED WATER SERVICE CONNECTIONS AND SIZES PRIOR TO INSTALLATION. SERVICE CONNECTIONS LOCATED BEYOND NEAR PROXIMITY TO THE PROPERTY BOUNDARY OR OUTSIDE OF THE ROW SHALL BE RELOCATED TO 2' FROM ITS RESPECTIVE PROPERTY LINE WITHIN ROW. PRIVATE SERVICE CONNECTIONS ARE TO BE MADE BY A LICENSED PLUMBER.



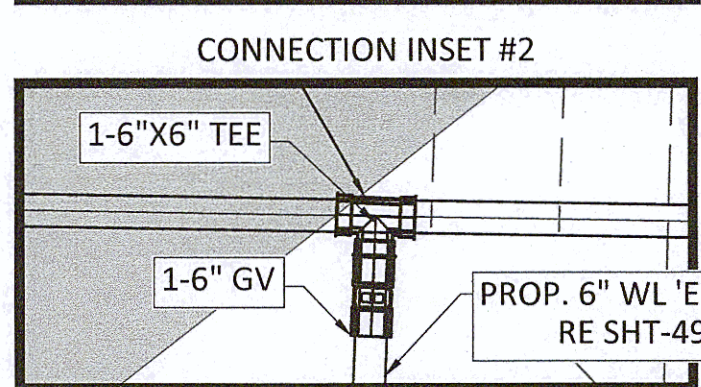
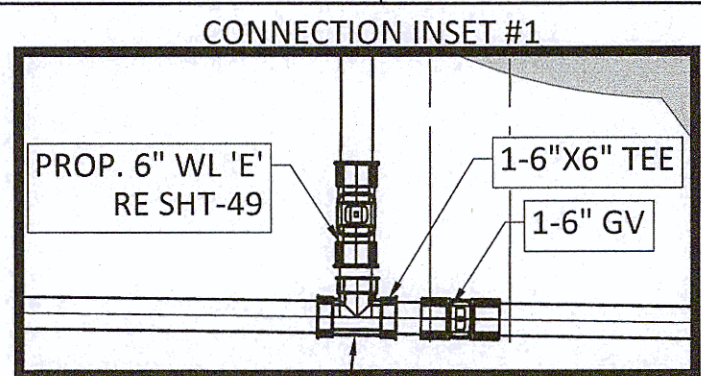
REVISION		BY	DATE
LINE 'B' PLAN AND PROFILE STA 105+00 TO STA 110+00 PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8877	
PLAN SCALE: 1" = 20'	DRAWN	TW	4/2025
	DESIGNED	EA	4/2025
PROFILE SCALE: 1" = 20'	SURVEY	NP	11/2024
	PROJ. MGR.	B	6/2025
HORIZONTAL 1" = 20'	LEAD ENGR.	LCW	6/25
	FIELD MGR.	RV	6/2025
VERTICAL 1" = 5'		J. M. M. DESIGN MANAGER	
FILE: TU-WAT-PP-WTRL01.dwg		DATE:	
ATLAS PAGE NO: 65 & 66		SHEET 37 OF 53 SHEETS	

BERRYHILL WATER LINE REPLACEMENT PROJECT NO. TMUA-W_21-02 TO#12

Filename: N:\WTU\Sheets\TU-WAT-PP-WTRL01.dwg

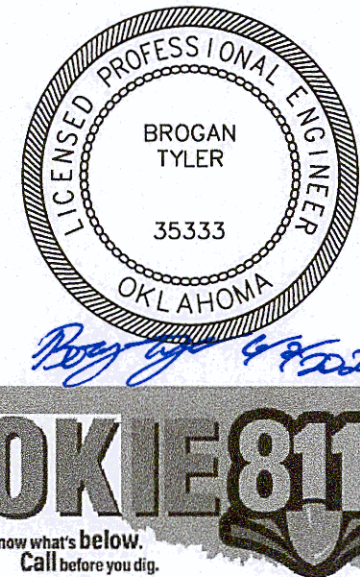
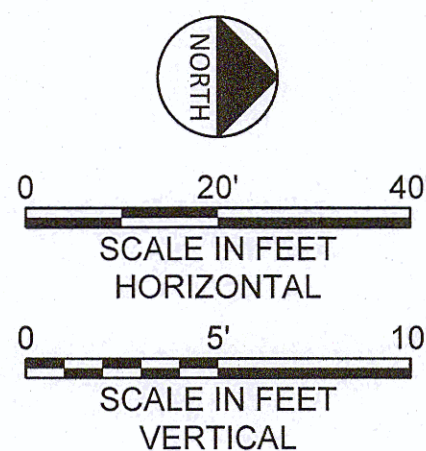


SERVICE CONNECTIONS	
LONG	8
SHORT	3



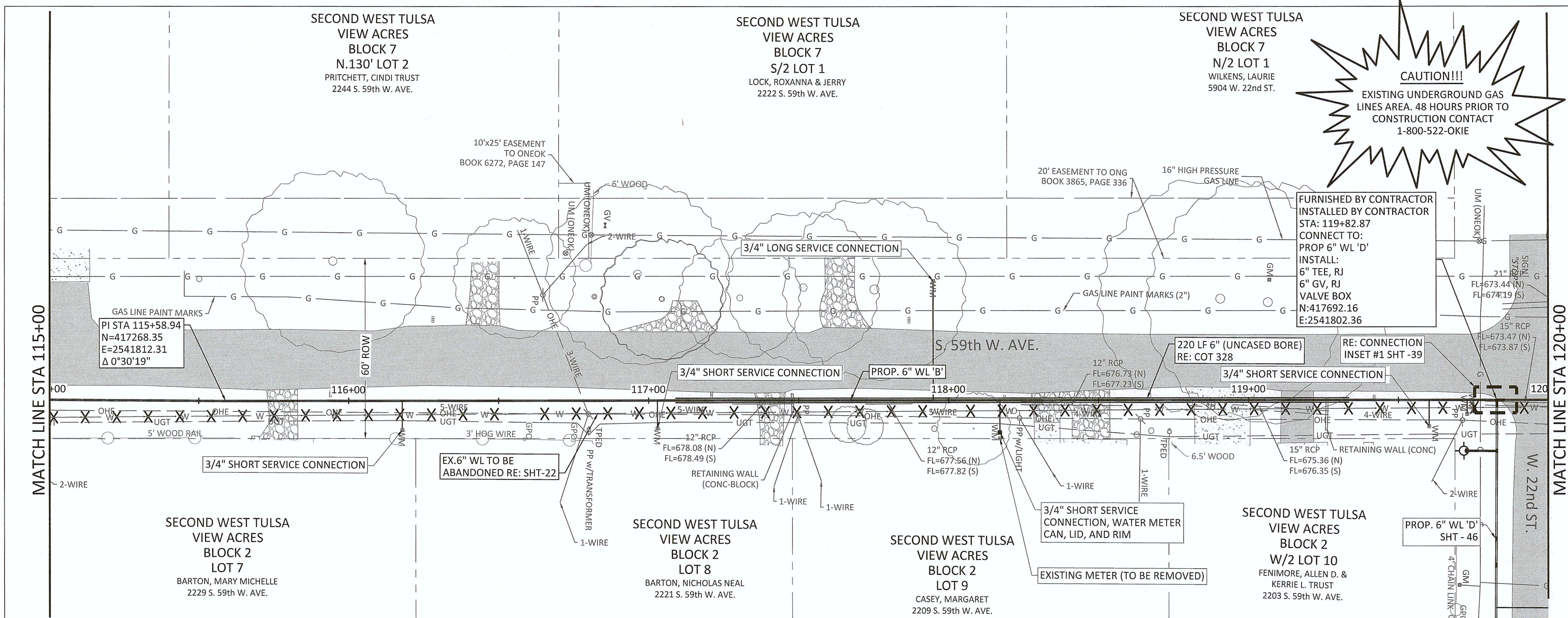
NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
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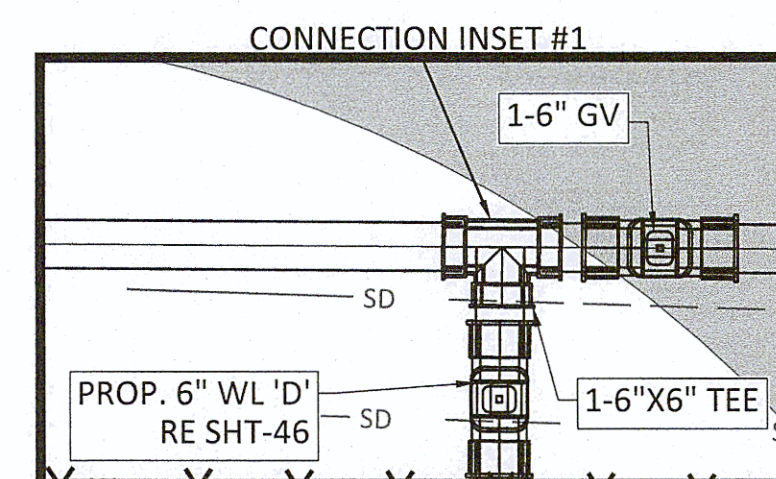


REVISION		BY	DATE
LINE 'B' PLAN AND PROFILE STA 110+00 TO STA 115+00			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024	APPROVED:

BERRYHILL WATER LINE REPLACEMENT PROJECT NO. TMUA-W 21-02 TO#12

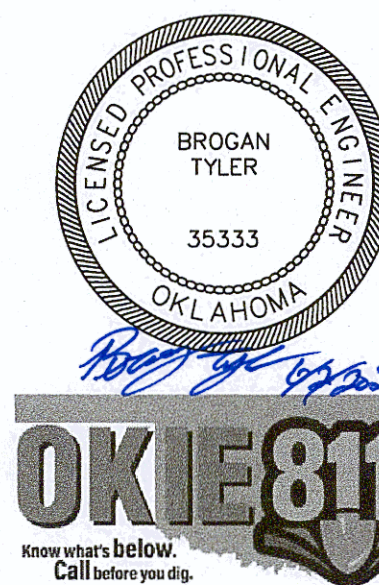
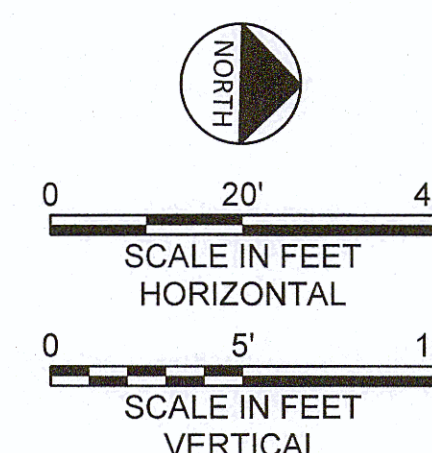
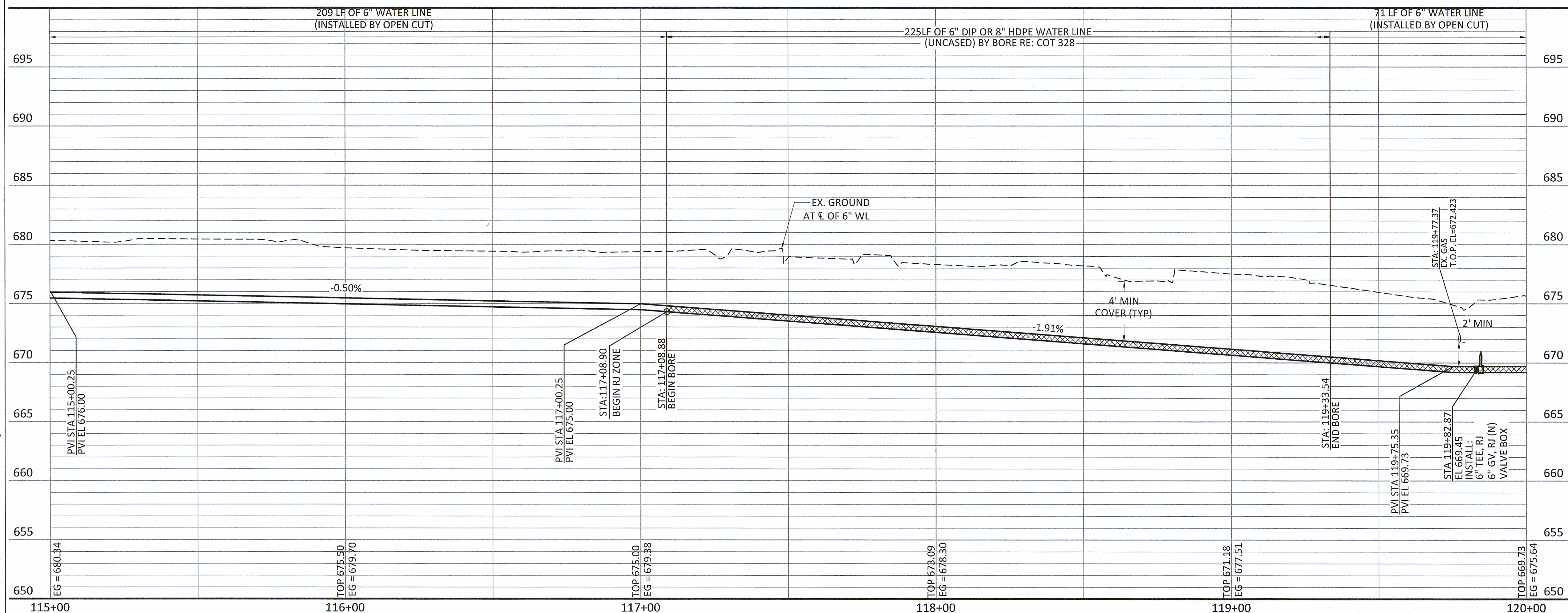


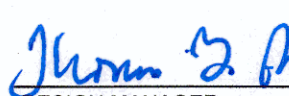
SERVICE CONNECTIONS	
LONG	1
SHORT	5



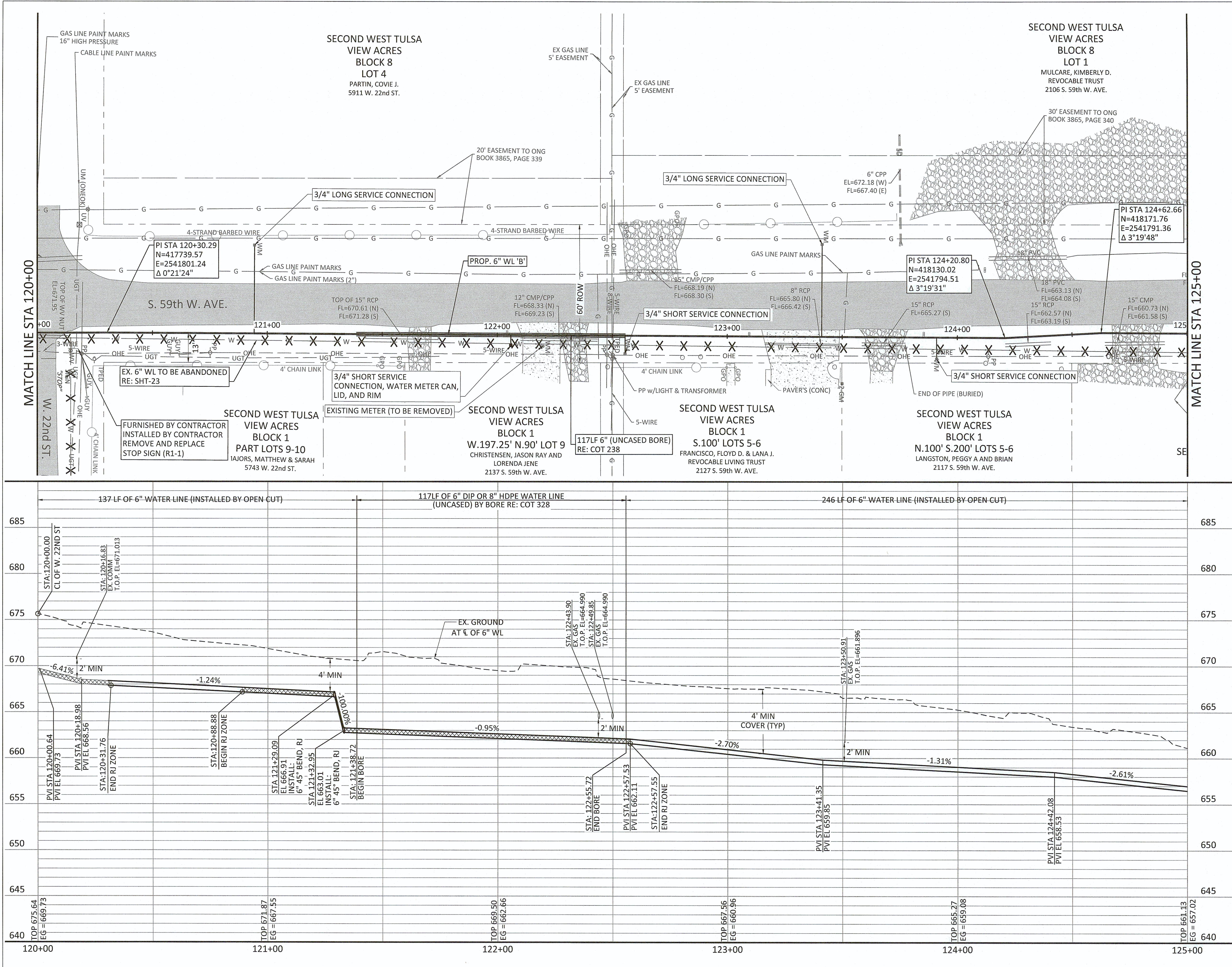
NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
3. CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION DISTANCE OF 2' BETWEEN EXISTING AND PROPOSED WATER LINES. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS OF THE EXISTING LINE FOR DAMAGES MADE DURING CONSTRUCTION.
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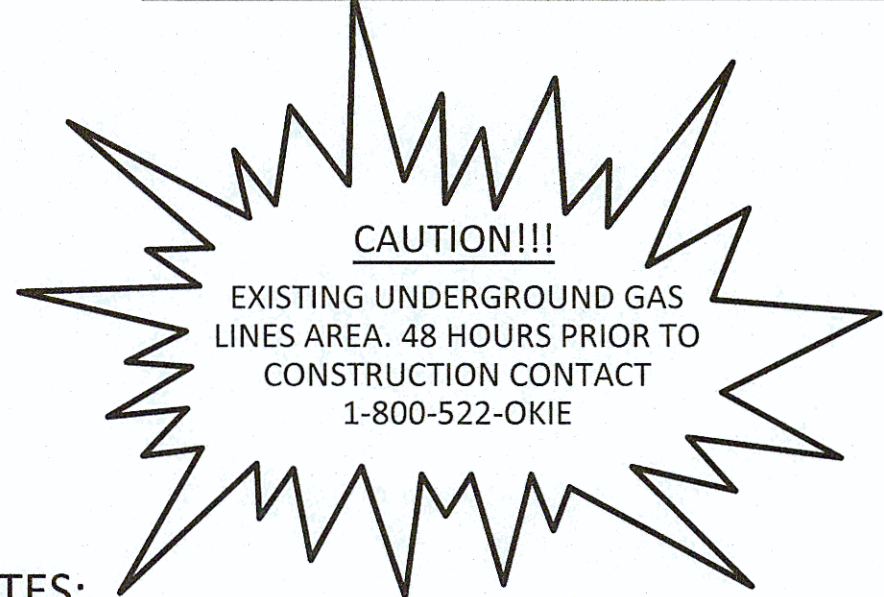


REVISION		BY	DATE
LINE 'B' PLAN AND PROFILE STA 115+00 TO STA 120+00			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677	
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP	4/2025 4/2025 11/2024
PROFILE SCALE: HORIZONTAL 1" = 20'	PROJ. MGR. LEAD ENGR. <i>cm Ford</i> FIELD MGR.	<i>B</i> <i>efw</i> <i>MV</i>	<i>04/30/25</i> <i>6/25</i> <i>6/20/25</i>
VERTICAL 1" = 5'	 DESIGN MANAGER		
FILE: TU-WAT-PP-WTRL01.dwg			DATE:
ATLAS PAGE NO: 65 & 66			SHEET 39 OF 53 SHEETS

Filename: N:\WTU\Sheets\TU-WAT-PP-WTRLO1.dwg

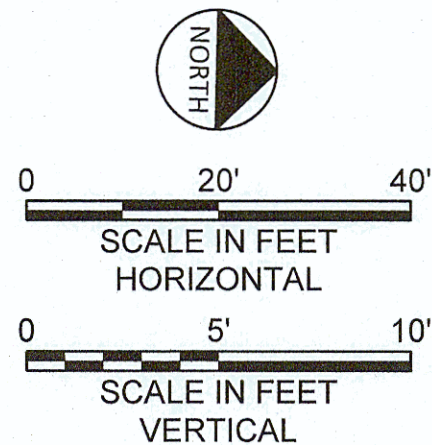


SERVICE CONNECTIONS	
LONG	2
SHORT	3

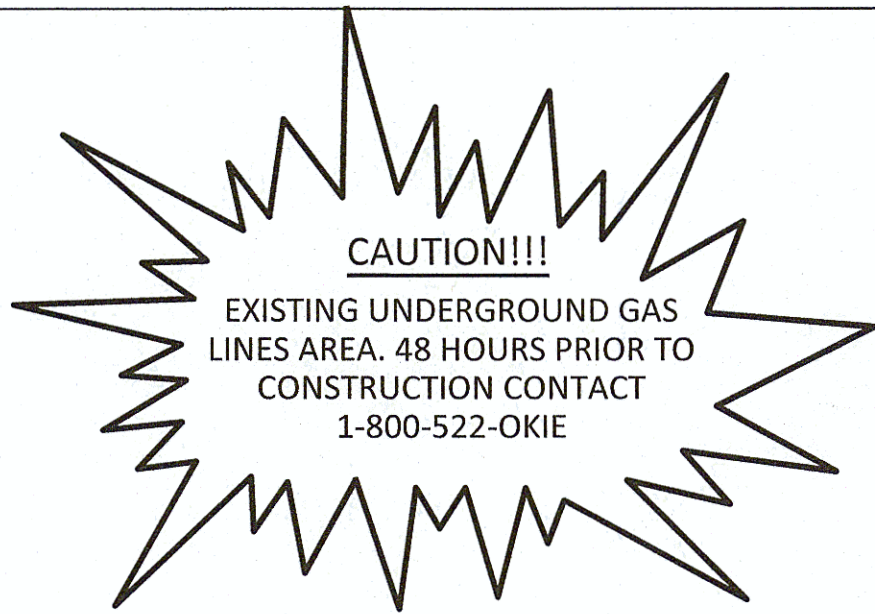
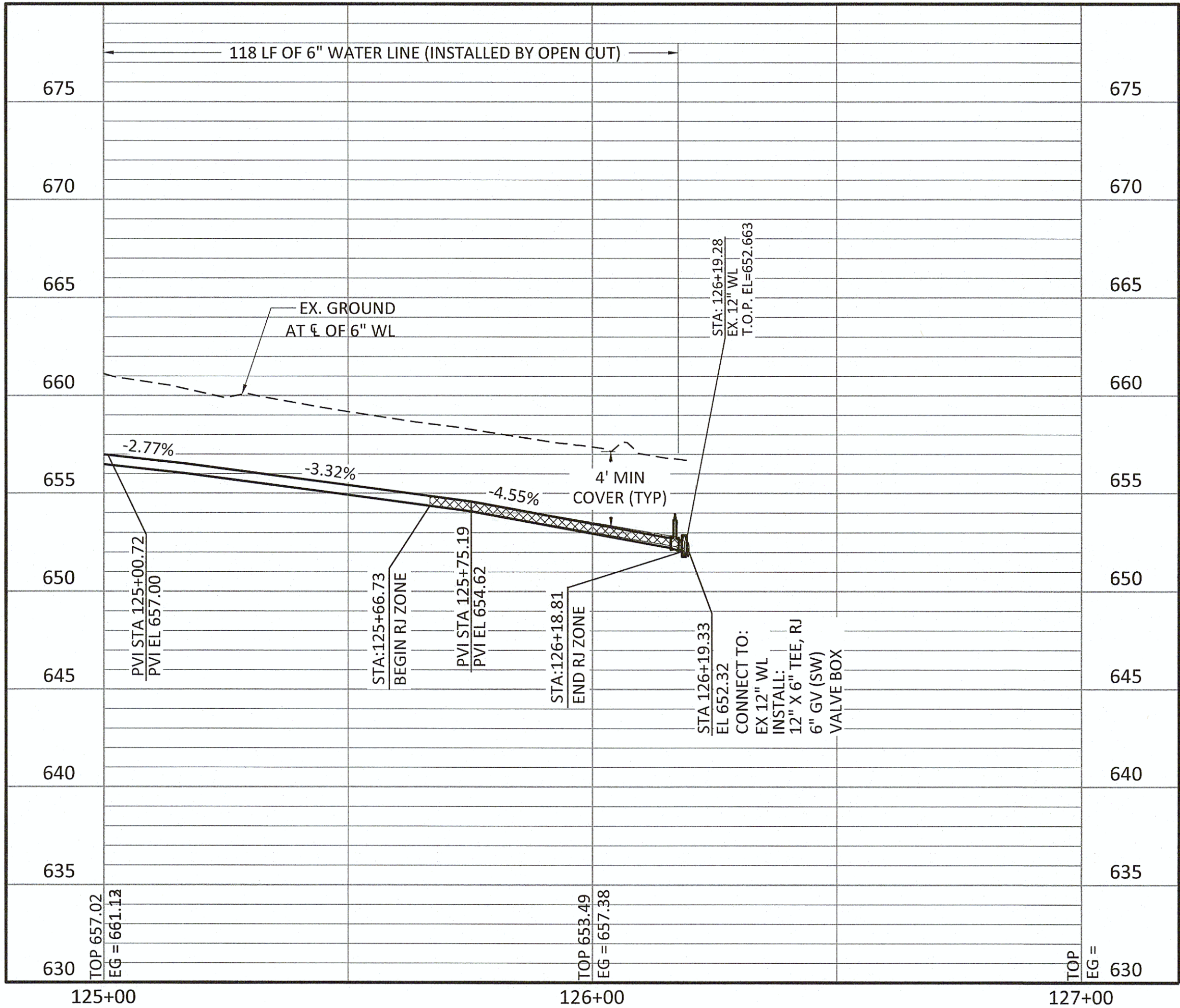
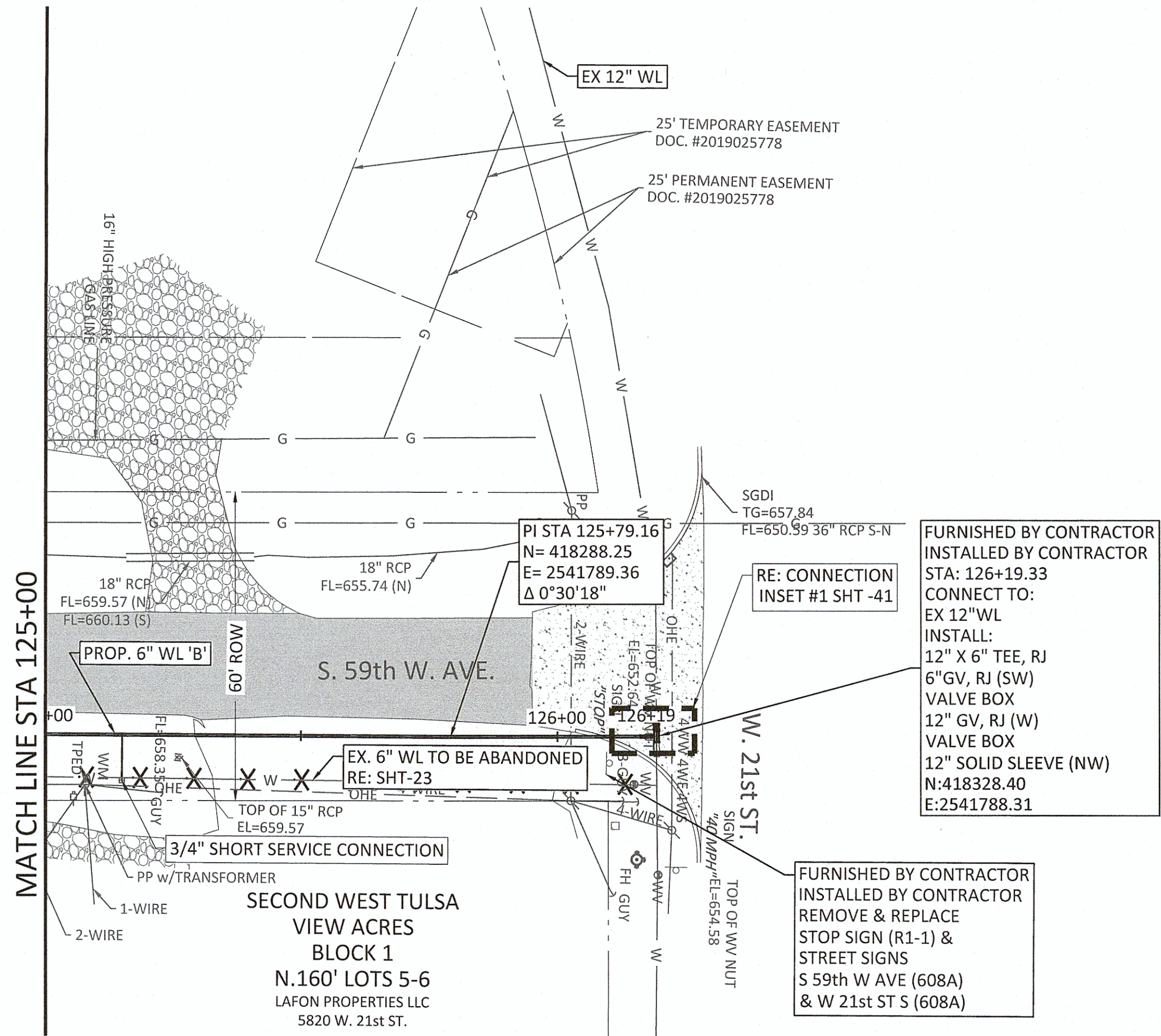


NOTES:

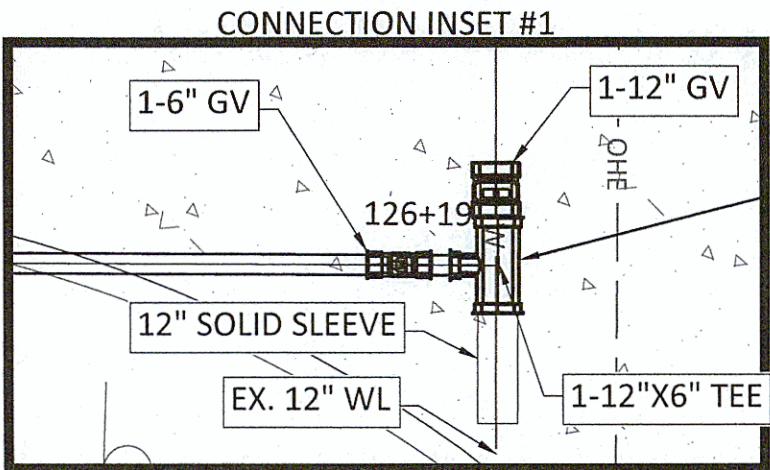
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
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REVISION	BY	DATE
LINE 'B' PLAN AND PROFILE STA 120+00 TO STA 125+00 PROJECT NO. TMUA-W 21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i> 6/25 6/25
FILE: TU-WAT-PP-WTRLO1.dwg		DATE: SHEET 40 OF 53 SHEETS

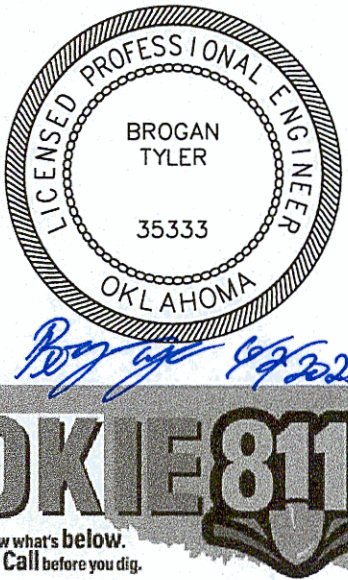
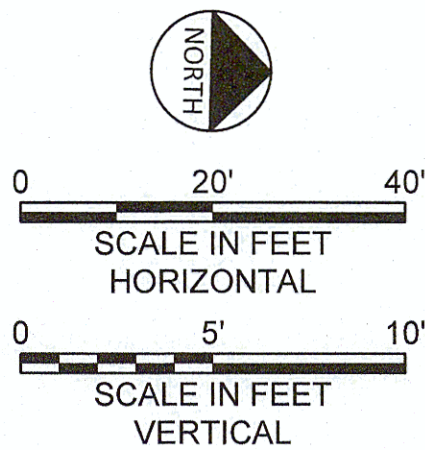


SERVICE CONNECTIONS	
LONG	0
SHORT	1



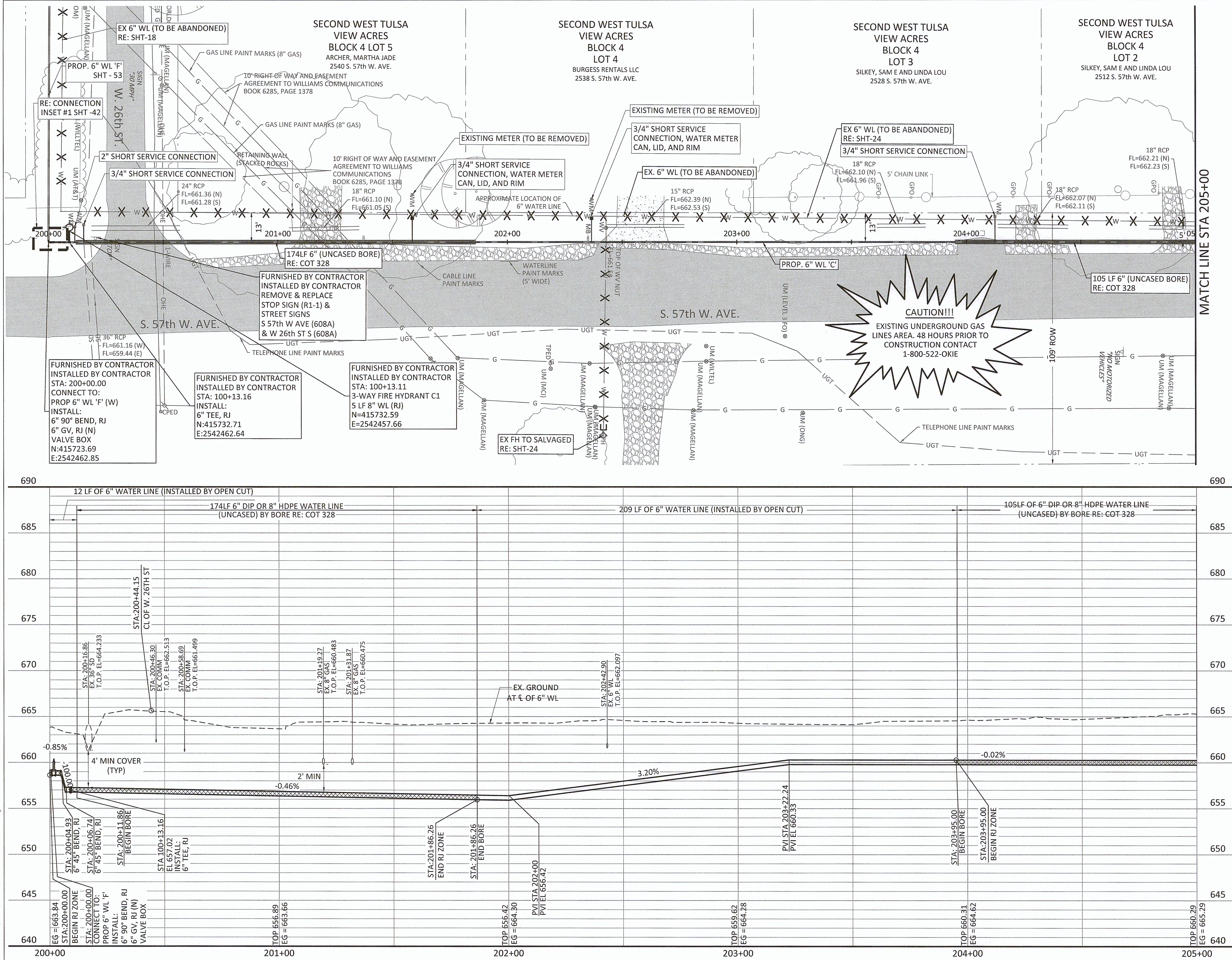
NOTES:

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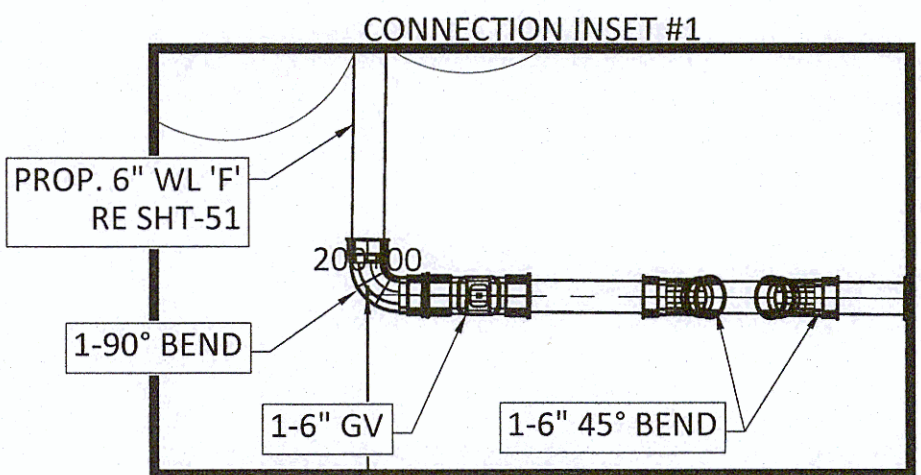


REVISION	BY	DATE
LINE 'B' PLAN AND PROFILE STA 125+00 TO END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED	TW EA 4/2025 4/2025
PROFILE SCALE: 1" = 5'	SURVEY PROJ. MGR. LEAD ENGR. FIELD MGR.	NP PB CB RV 11/2024 06/2025 06/2025 6/2025
FILE: TU-WAT-PP-WTRL02.dwg		APPROVED: DESIGN MANAGER DATE:
ATLAS PAGE NO: 65 & 66		SHEET 41 OF 53 SHEETS

Filename: N:\WTU\Sheets\TU-WAT-PP-WTRL02.dwg

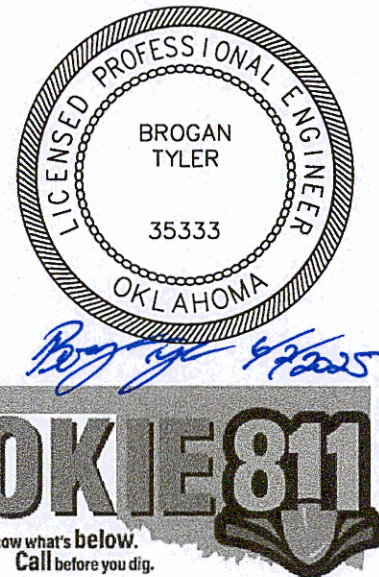
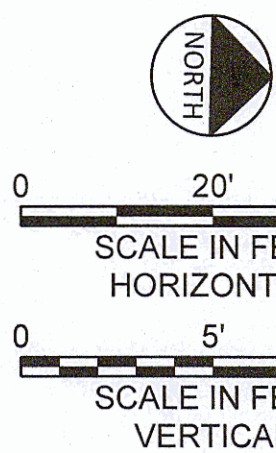


SERVICE CONNECTIONS	
LONG	0
SHORT	5



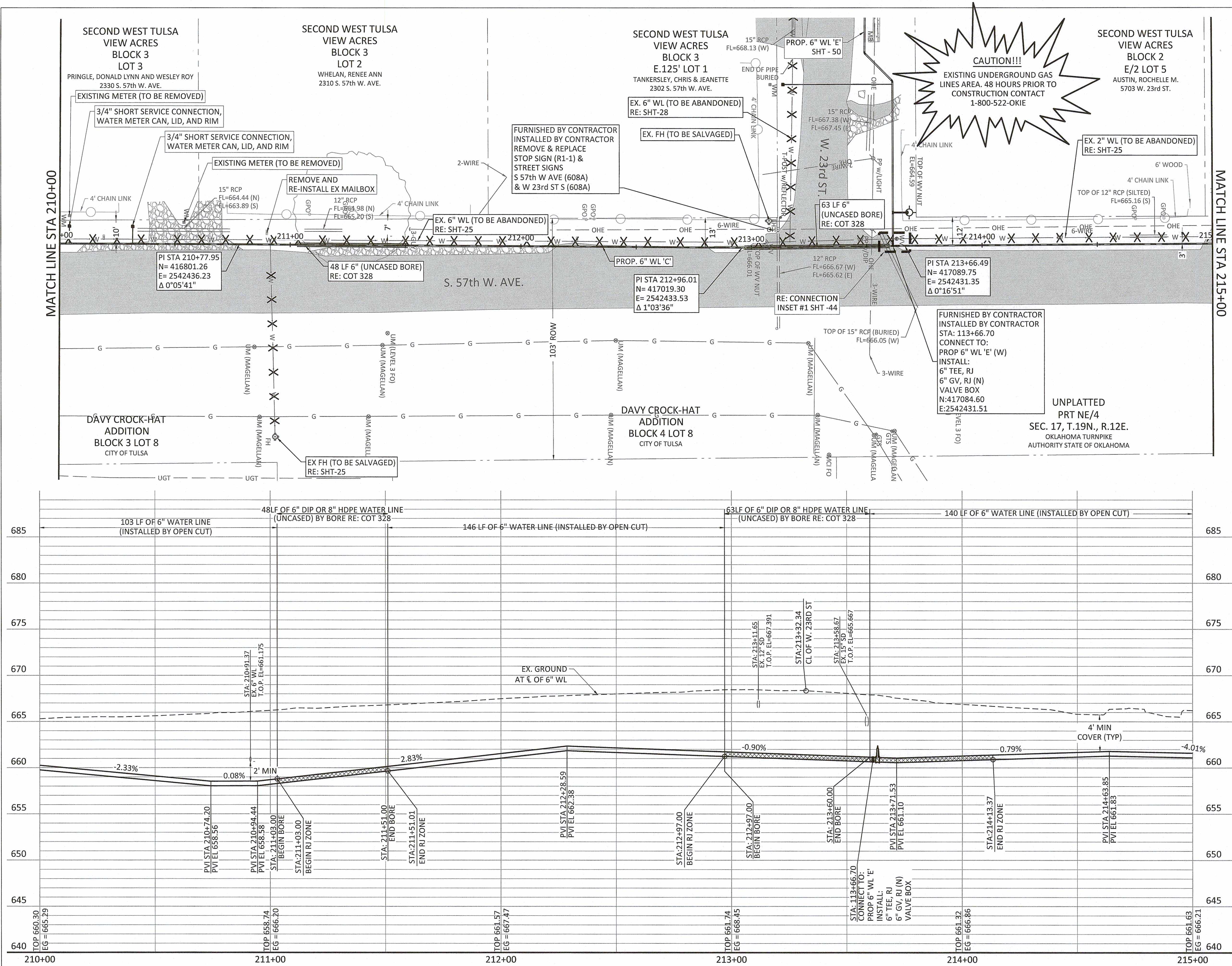
NOTES:

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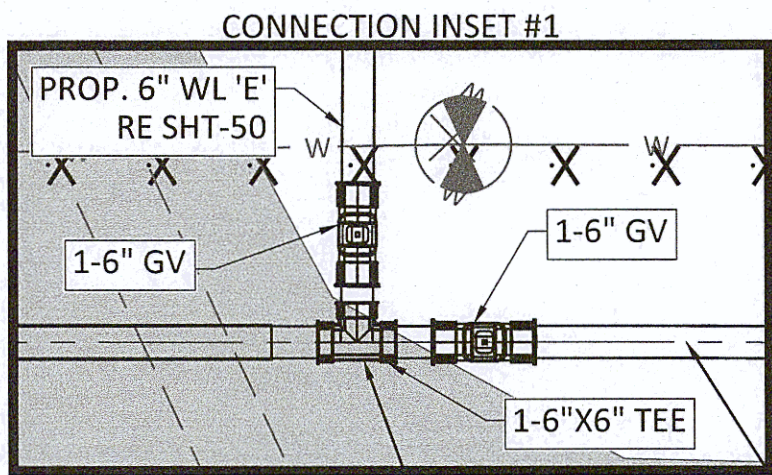


REVISION	BY	DATE
LINE 'C' PLAN AND PROFILE STA 200+00 TO STA 205+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/20/25 4/20/25 11/20/24
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i>
HORIZONTAL 1" = 8'	DESIGN MANAGER <i>[Signature]</i>	
FILE: TU-WAT-PP-WTRL02.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 42 OF 53 SHEETS

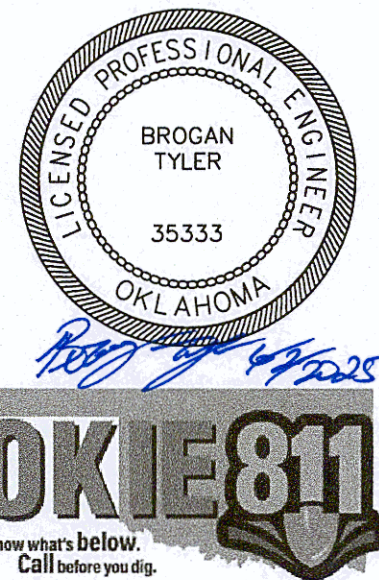
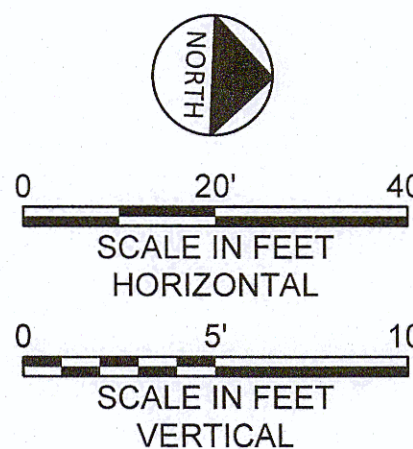
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SERVICE CONNECTIONS	
LONG	0
SHORT	2

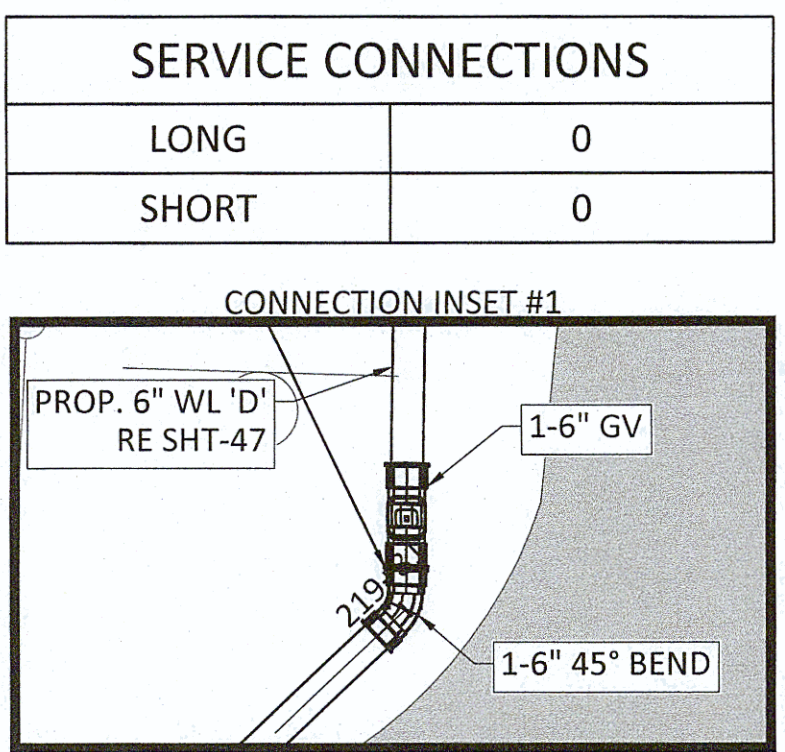


- NOTES:
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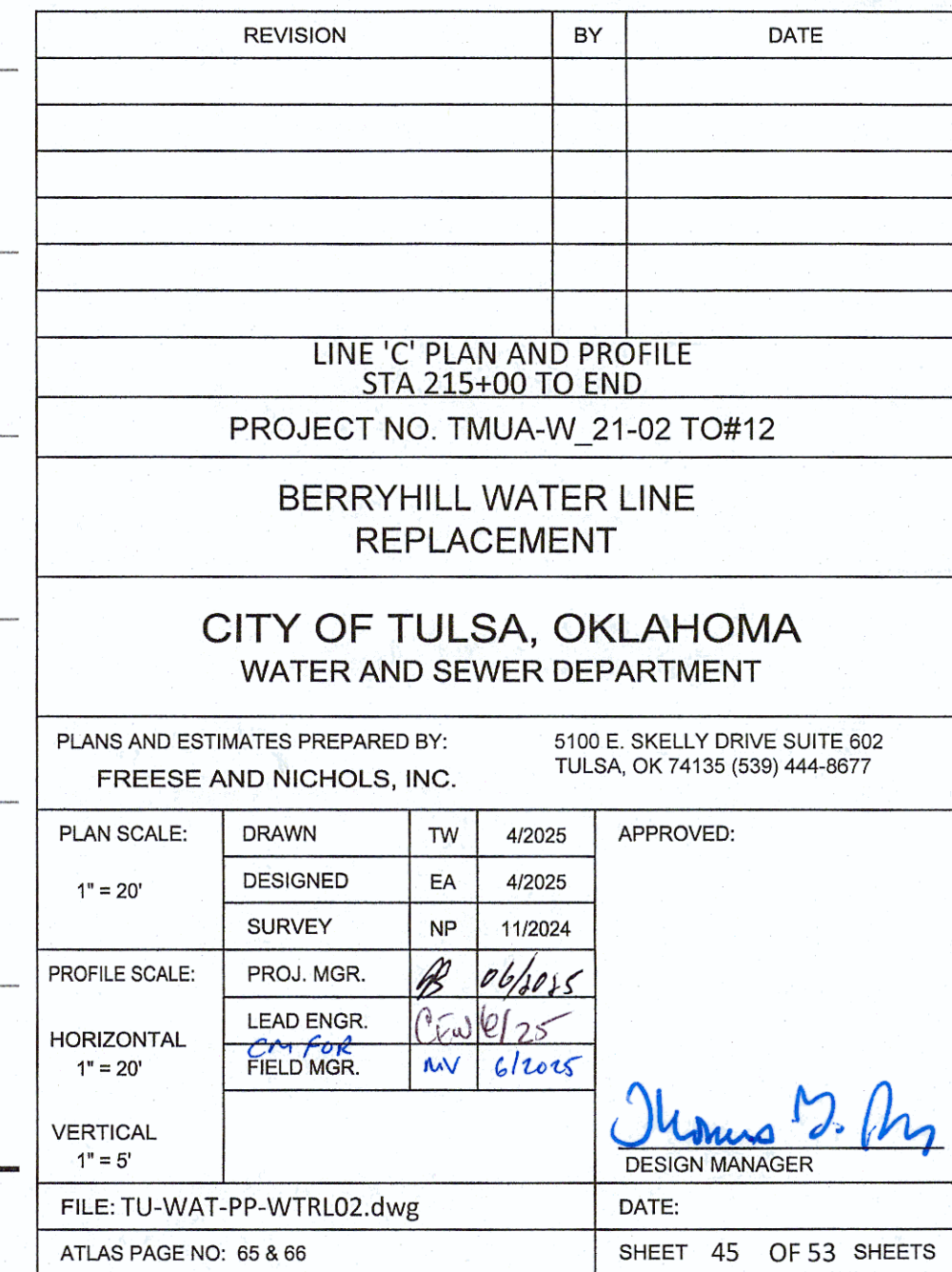


REVISION	BY	DATE
LINE 'C' PLAN AND PROFILE STA 210+00 TO STA 215+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 802 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: [Signature] [Signature] [Signature] 08/2025 6/2025
FILE: TU-WAT-PP-WTRL02.dwg		DATE: [Signature] DESIGN MANAGER
ATLAS PAGE NO: 65 & 66		SHEET 44 OF 53 SHEETS

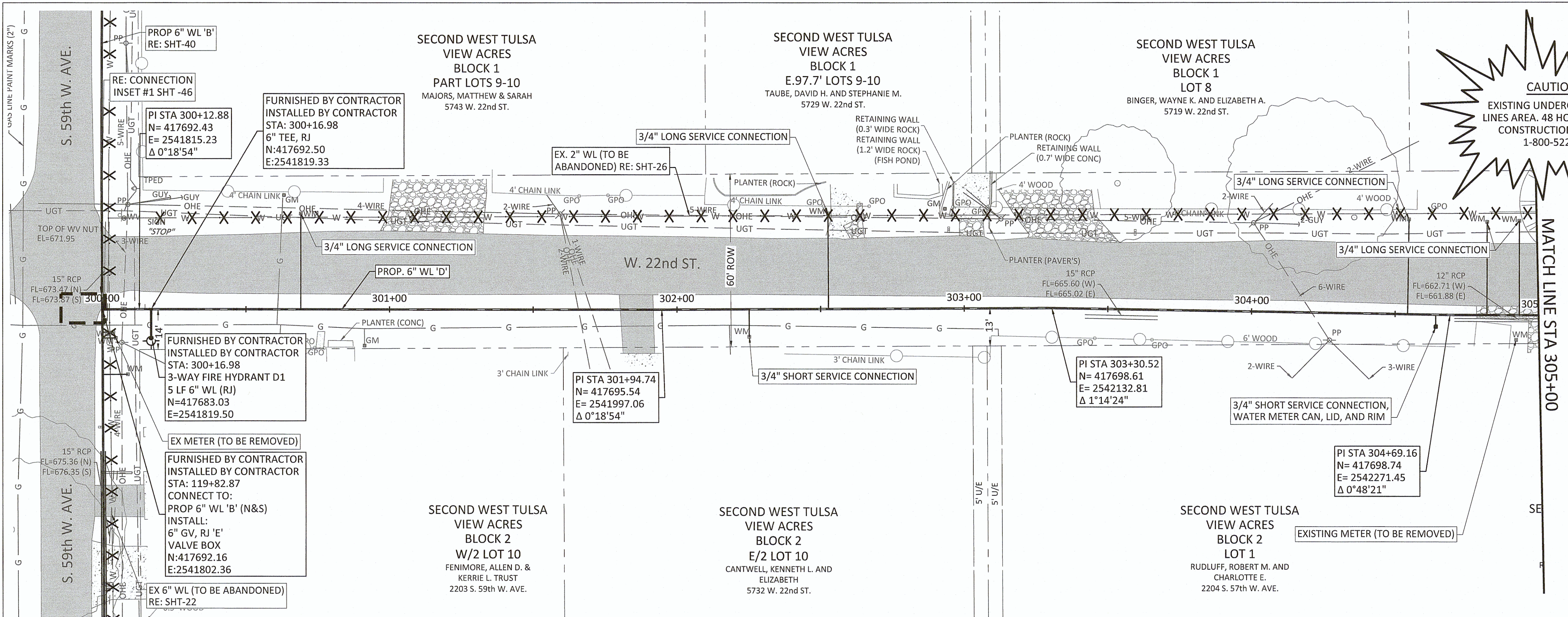
BERRYHILL WATER LINE REPLACEMENT PROJECT NO. TMUA-W 21-02 TO#12



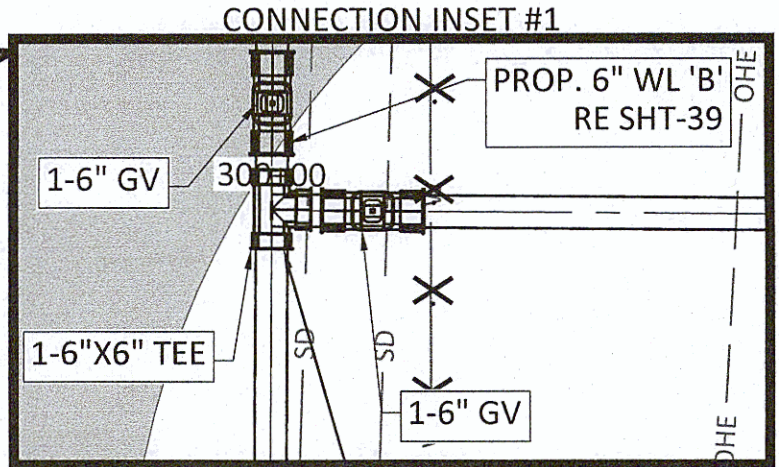
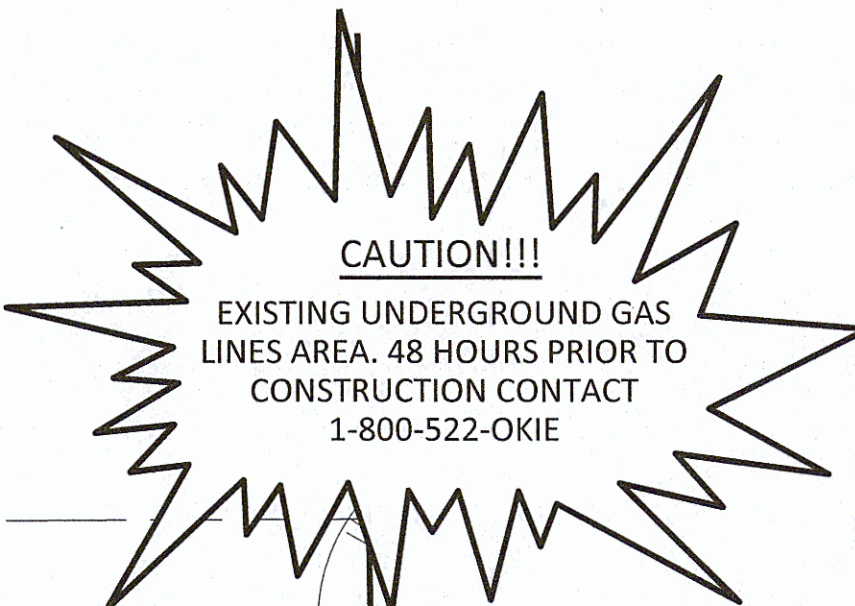
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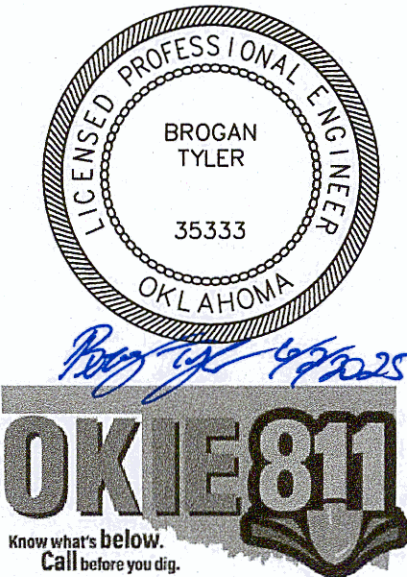
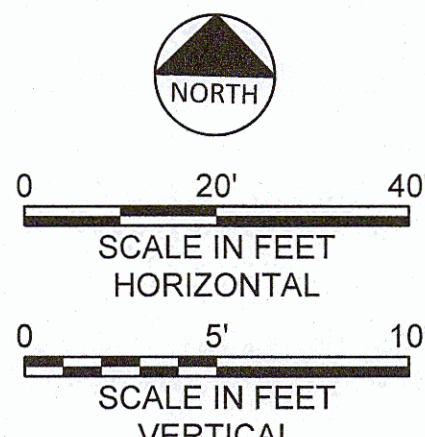
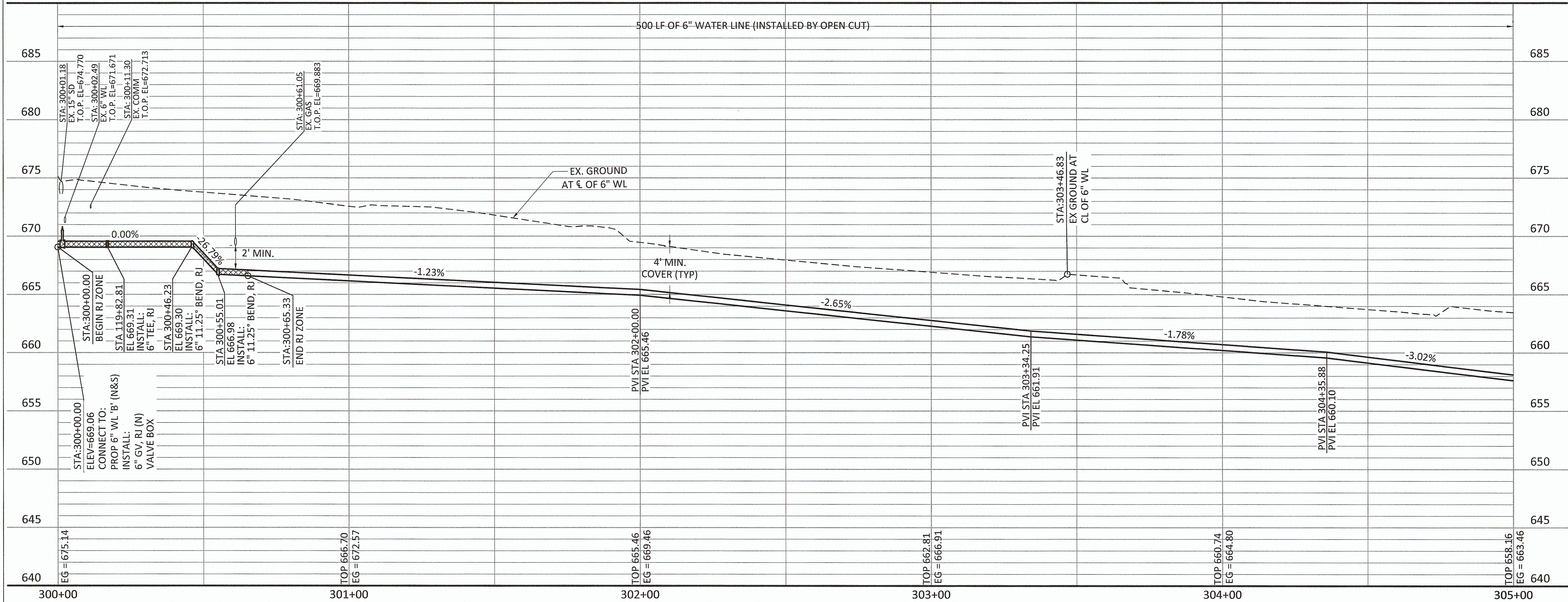


SERVICE CONNECTIONS	
LONG	5
SHORT	2

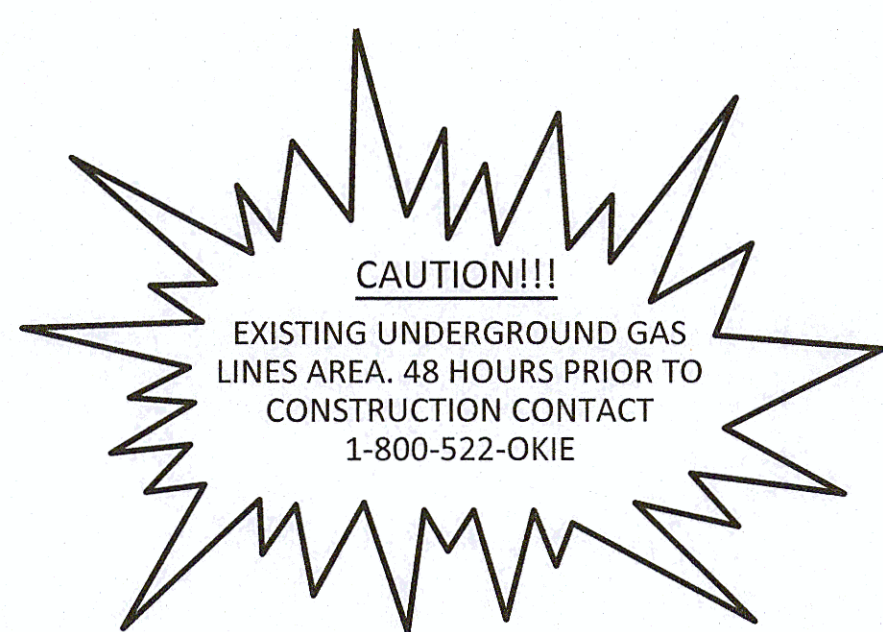


NOTES:

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REVISION	BY	DATE
LINE 'D' PLAN AND PROFILE STA 300+00 TO STA 305+00		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: [Signature] [Signature] [Signature] 6/1/25 6/1/25 6/1/25
FILE: TU-WAT-PP-WTRLO3.dwg		DATE: [Signature] DESIGN MANAGER
ATLAS PAGE NO: 65 & 66		SHEET 46 OF 53 SHEETS



CONNECTION INSET #1

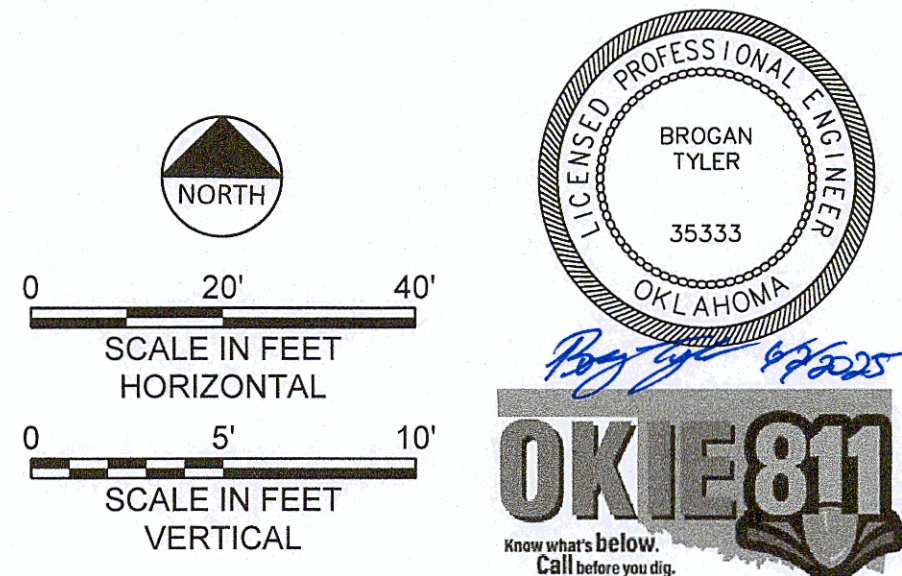
1-6" 45° BEND

306+306+01

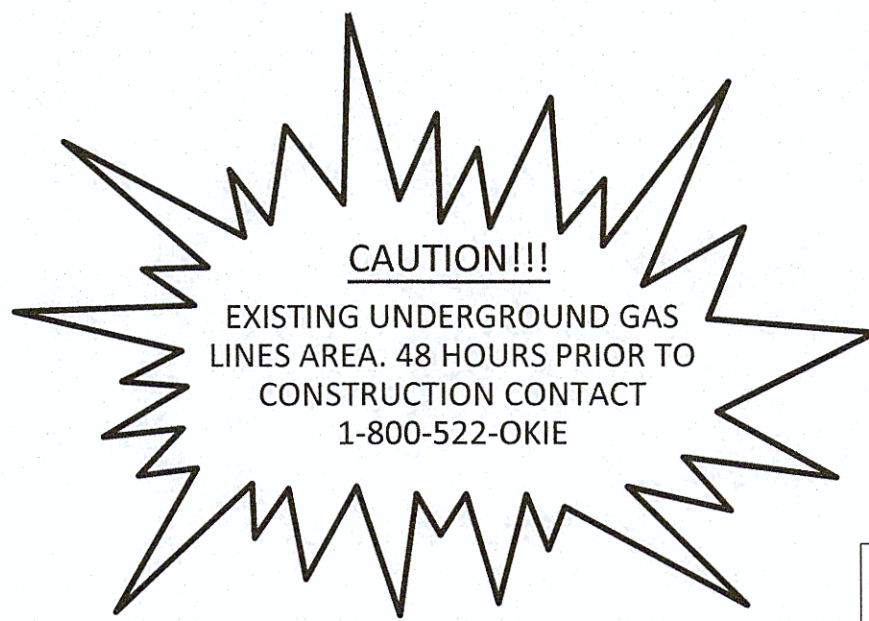
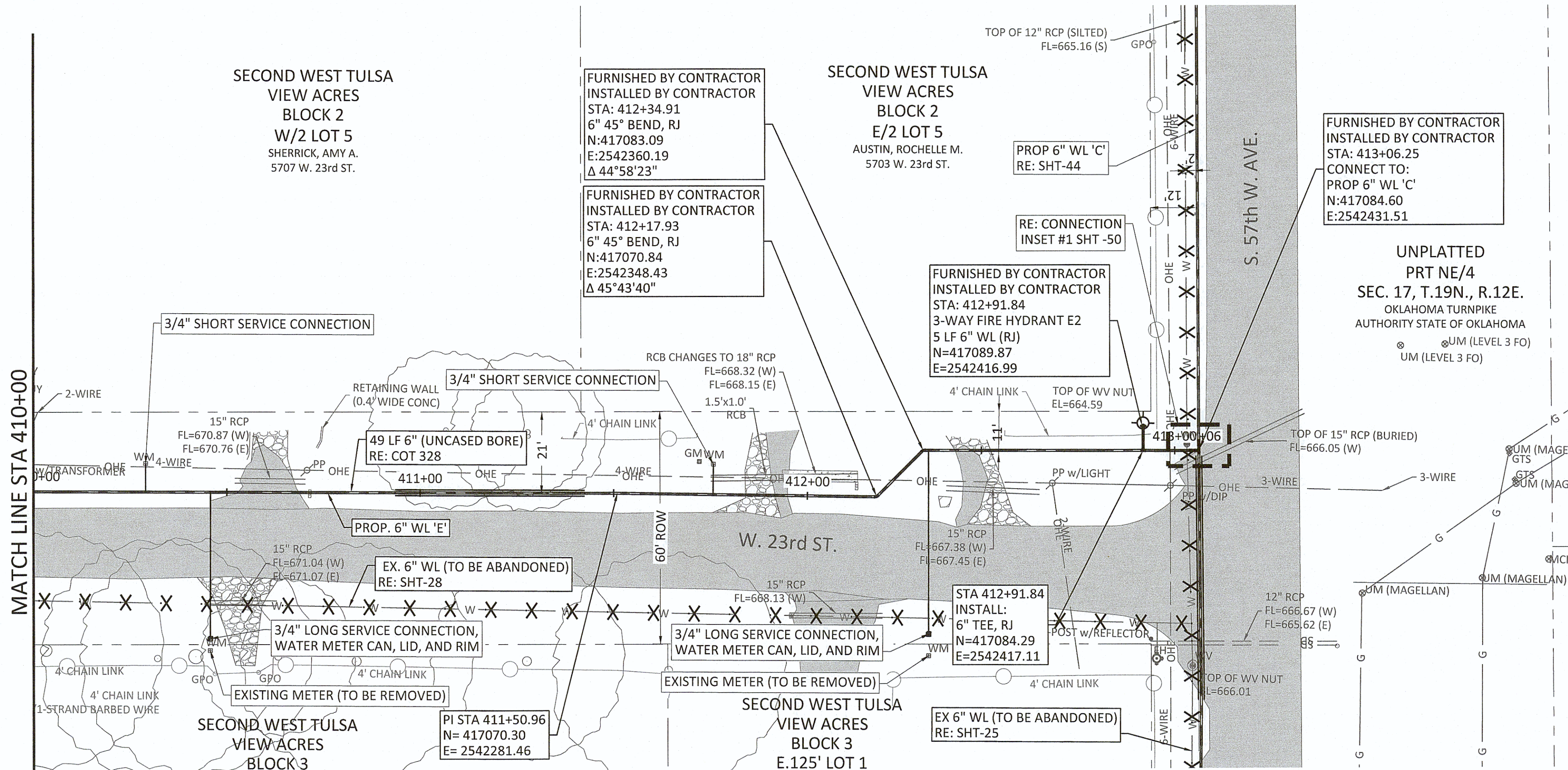
1-6" GV

PROP. 6" WL 'C'
RE SHT-45

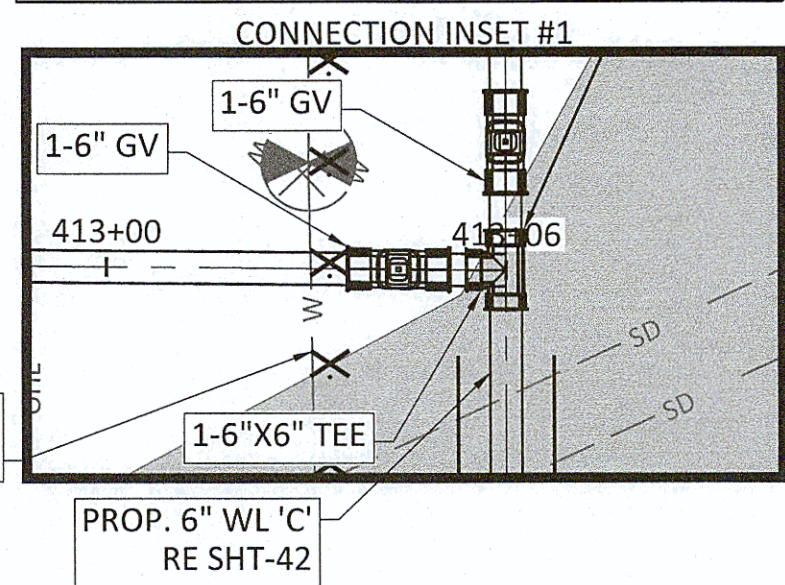
1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
3. CONTRACTOR SHALL MAINTAIN A HORIZONTAL SEPARATION DISTANCE OF 2' BETWEEN EXISTING AND PROPOSED WATER LINES. NO ADDITIONAL PAYMENT SHALL BE MADE FOR REPAIRS OF THE EXISTING LINE FOR DAMAGES MADE DURING CONSTRUCTION.
4. CONTRACTOR SHALL PROTECT AND SUPPORT ALL OVERHEAD UTILITIES.
5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING AND PROPOSED WATER SERVICE CONNECTIONS AND SIZES PRIOR TO INSTALLATION. SERVICE CONNECTIONS LOCATED BEYOND NEAR PROXIMITY TO THE PROPERTY BOUNDARY OR OUTSIDE OF THE ROW SHALL BE RELOCATED TO 2' FROM ITS RESPECTIVE PROPERTY LINE WITHIN ROW. PRIVATE SERVICE CONNECTIONS ARE TO BE MADE BY A LICENSED PLUMBER.



REVISION		BY	DATE
LINE 'D' PLAN AND PROFILE STA 305+00 TO END			
PROJECT NO. TMUA-W_21-02 TO#12			
BERRYHILL WATER LINE REPLACEMENT			
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT			
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8877	
PLAN SCALE:	DRAWN	TW	4/2025
1" = 20'	DESIGNED	EA	4/2025
	SURVEY	NP	11/2024
PROFILE SCALE:	PROJ. MGR.	<i>JB</i>	<i>06/2025</i>
	LEAD ENGR.	<i>NEW</i>	<i>4/25</i>
HORIZONTAL	FIELD MGR.	<i>RV</i>	<i>6/2015</i>
1" = 20'			
VERTICAL			
1" = 5'			
FILE: TU-WAT-PP-WTRL03.dwg		DATE:	
ATLAS PAGE NO: 65 & 86		SHEET 47 OF 53 SHEETS	

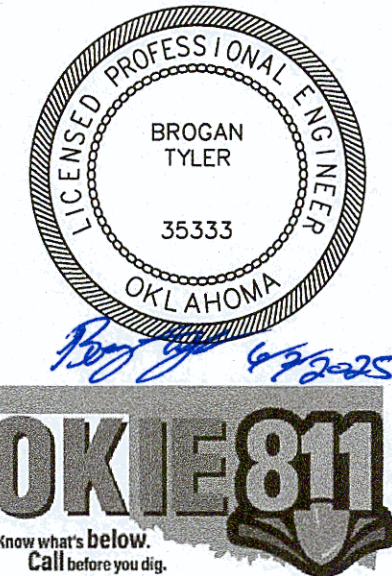
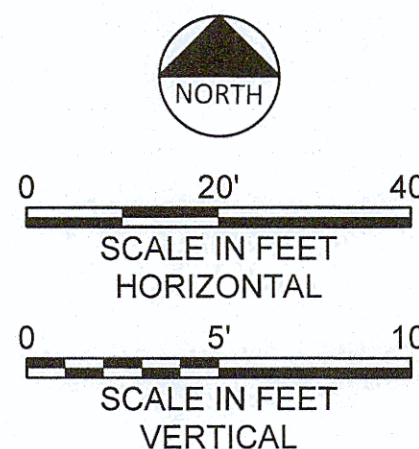
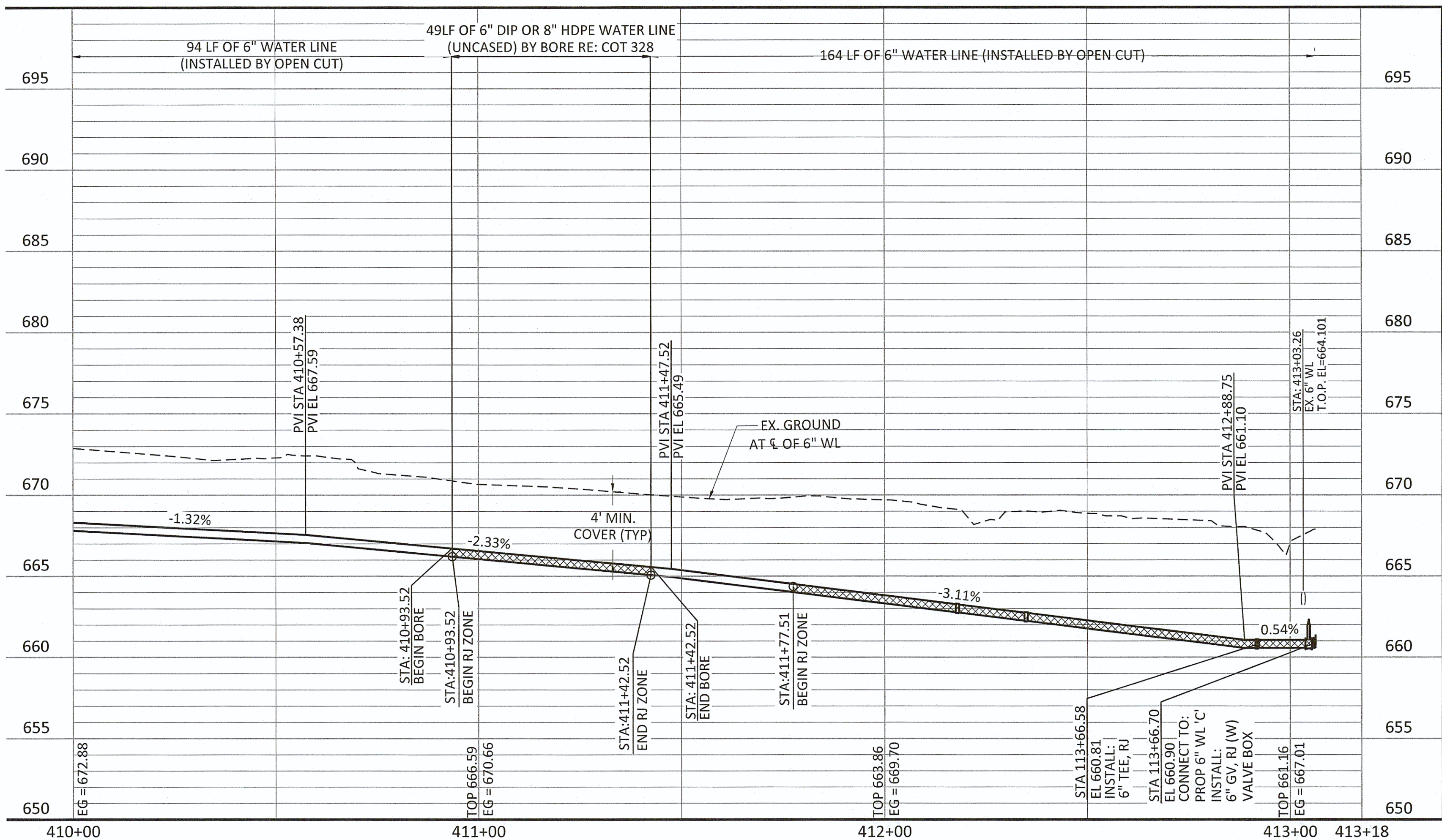


SERVICE CONNECTIONS	
LONG	2
SHORT	1



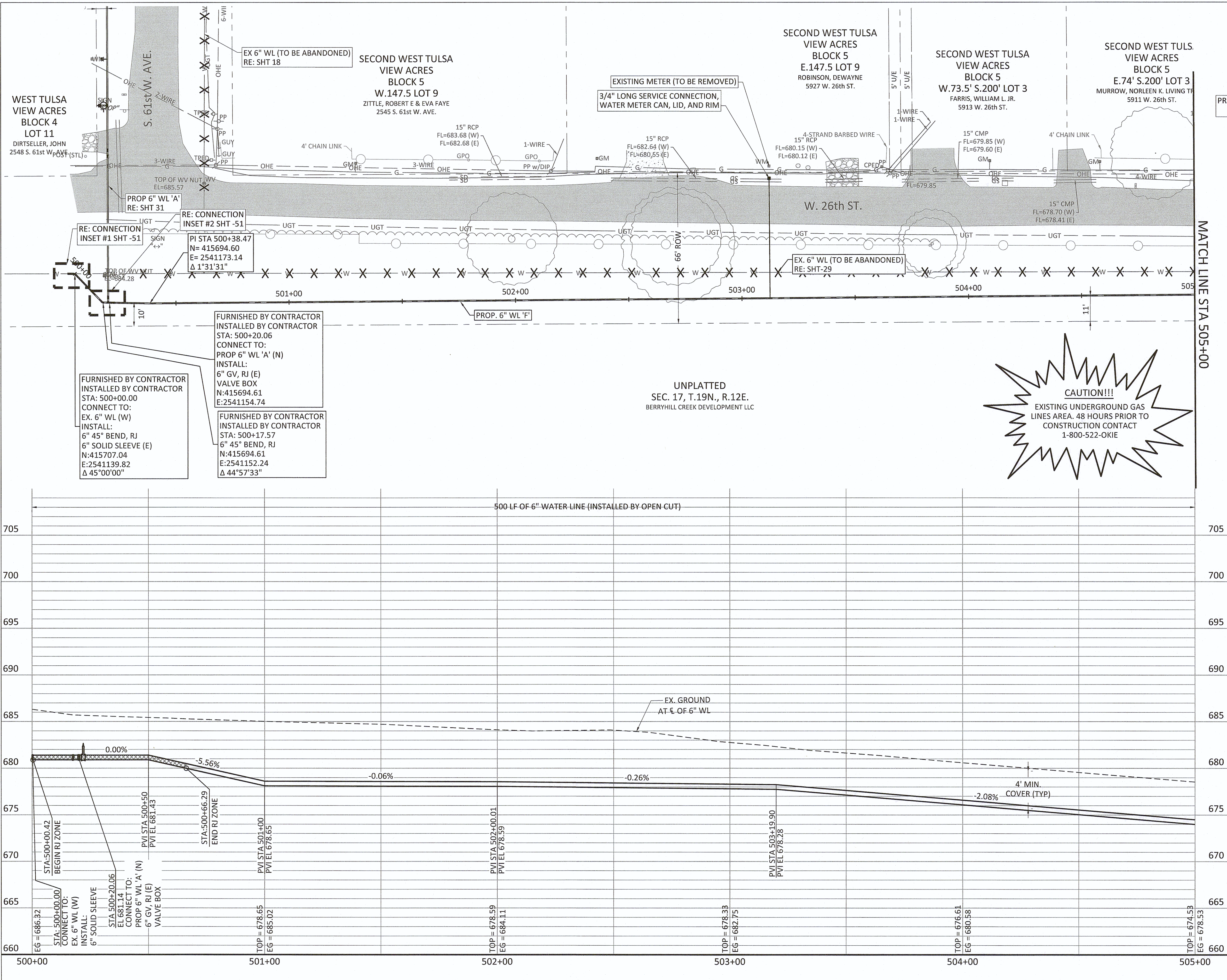
NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT STORM RUNOFF DURING CONSTRUCTION.
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- CONTRACTOR SHALL PROTECT AND SUPPORT ALL OVERHEAD UTILITIES.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING AND PROPOSED WATER SERVICE CONNECTIONS AND SIZES PRIOR TO INSTALLATION. SERVICE CONNECTIONS LOCATED BEYOND NEAR PROXIMITY TO THE PROPERTY BOUNDARY OR OUTSIDE OF THE ROW SHALL BE RELOCATED TO 2' FROM ITS RESPECTIVE PROPERTY LINE WITHIN ROW. PRIVATE SERVICE CONNECTIONS ARE TO BE MADE BY A LICENSED PLUMBER.



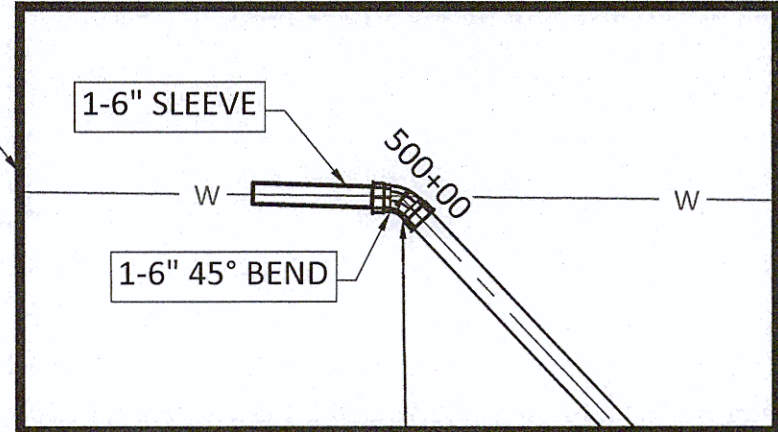
REVISION	BY	DATE
LINE 'E' PLAN AND PROFILE STA 410+00 TO END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: HORIZONTAL 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: 6/1/25 6/2/25
VERTICAL 1" = 5'		DESIGN MANAGER
FILE: TU-WAT-PP-WTRL03.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 50 OF 53 SHEETS

Filename: N:\WTO\Sheets\TU-WAT-PP-WTRL03.dwg

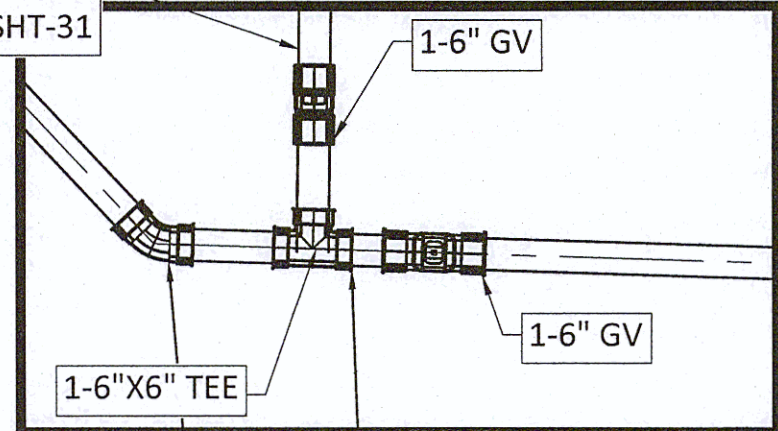


SERVICE CONNECTIONS	
LONG	1
SHORT	0

CONNECTION INSET #1



CONNECTION INSET #2



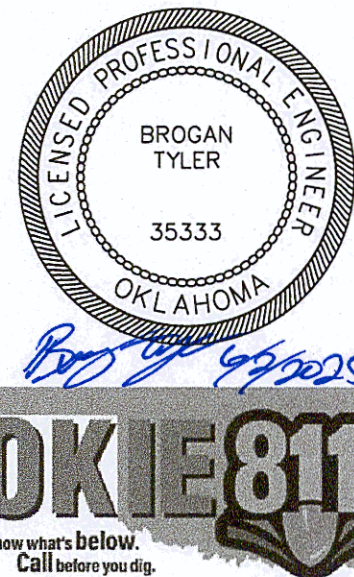
NOTES:

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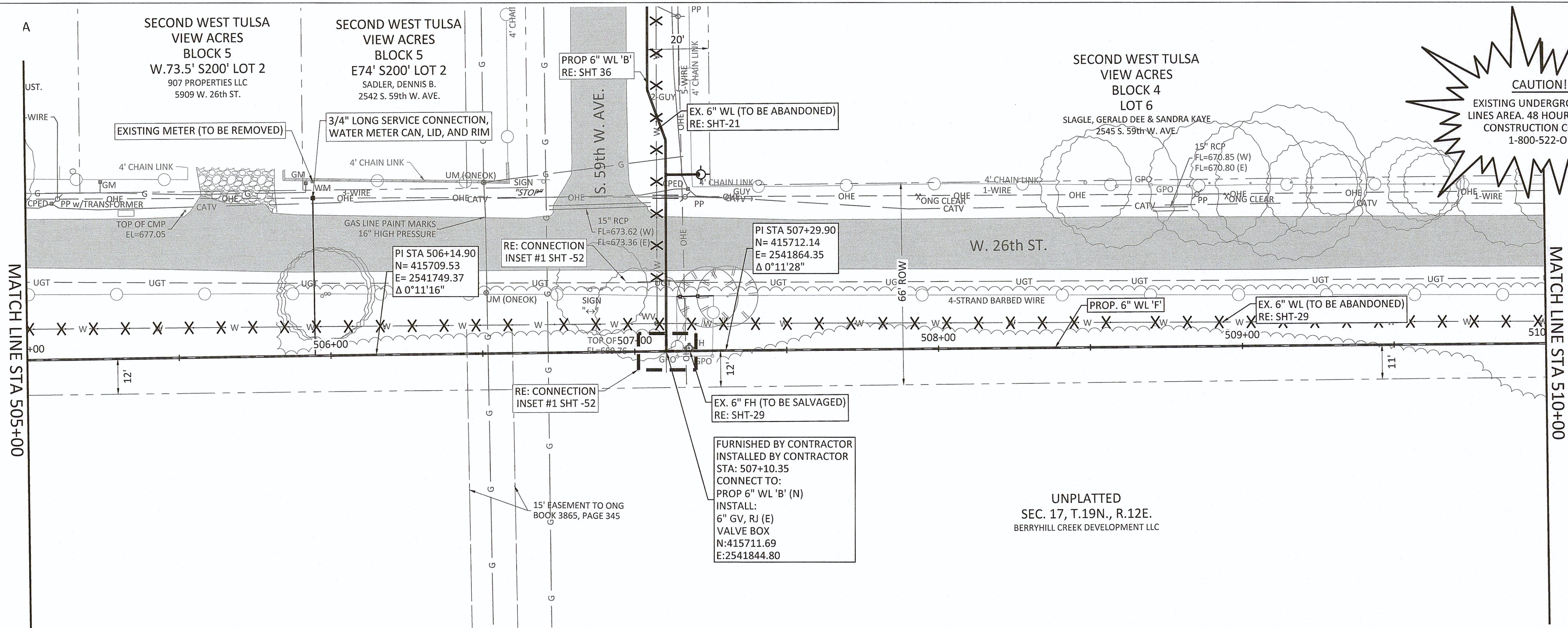
0 20' 40'
SCALE IN FEET
HORIZONTAL

0 5' 10'
SCALE IN FEET
VERTICAL

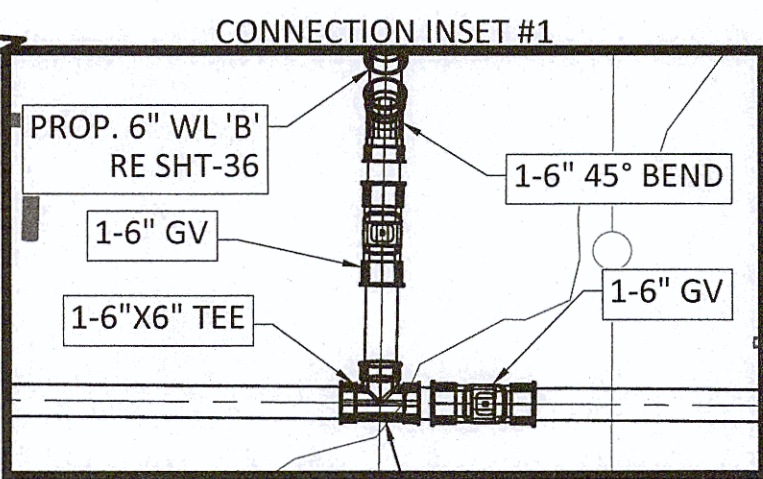
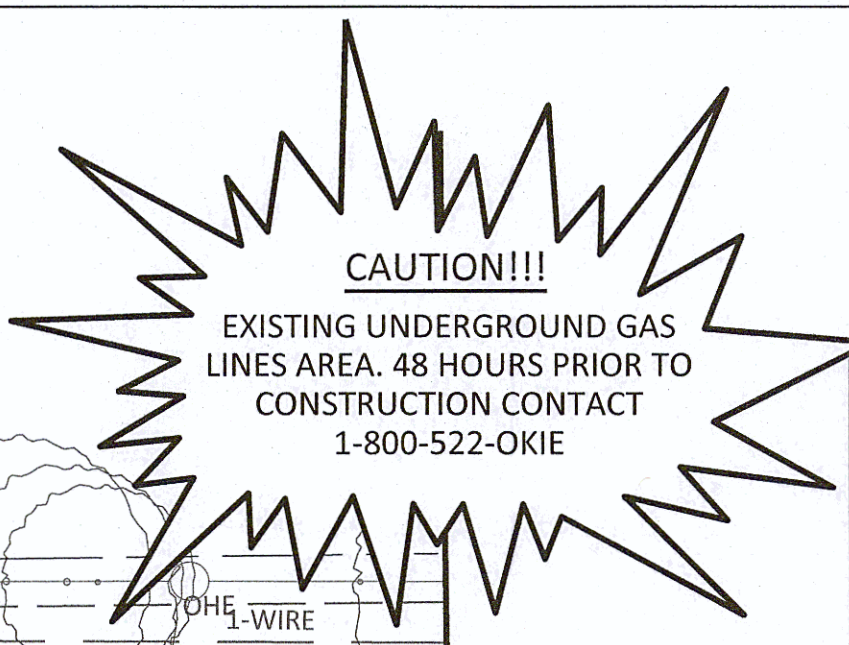


REVISION	BY	DATE
LINE 'F' PLAN AND PROFILE STA 500+00 TO STA 505+00 PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: HORIZONTAL 1" = 20' VERTICAL 1" = 5'	PROJ. MGR. LEAD ENGR. FIELD MGR.	APPROVED: [Signature] DESIGN MANAGER
FILE: TU-WAT-PP-WTRL03.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 51 OF 53 SHEETS

Filename: N:\WTU\Sheets\TU-WAT-PP-WTRL03.dwg

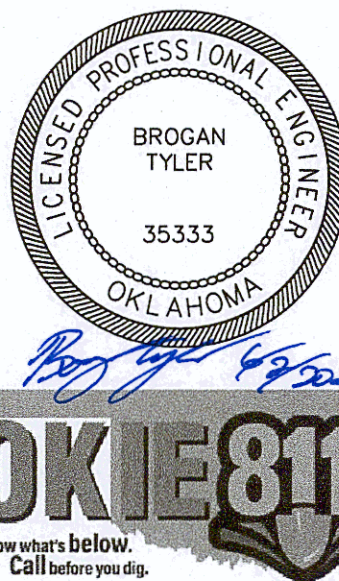
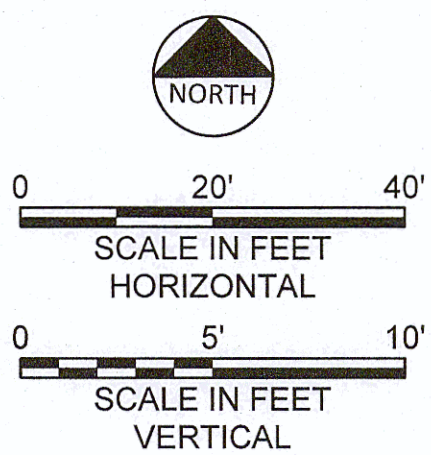
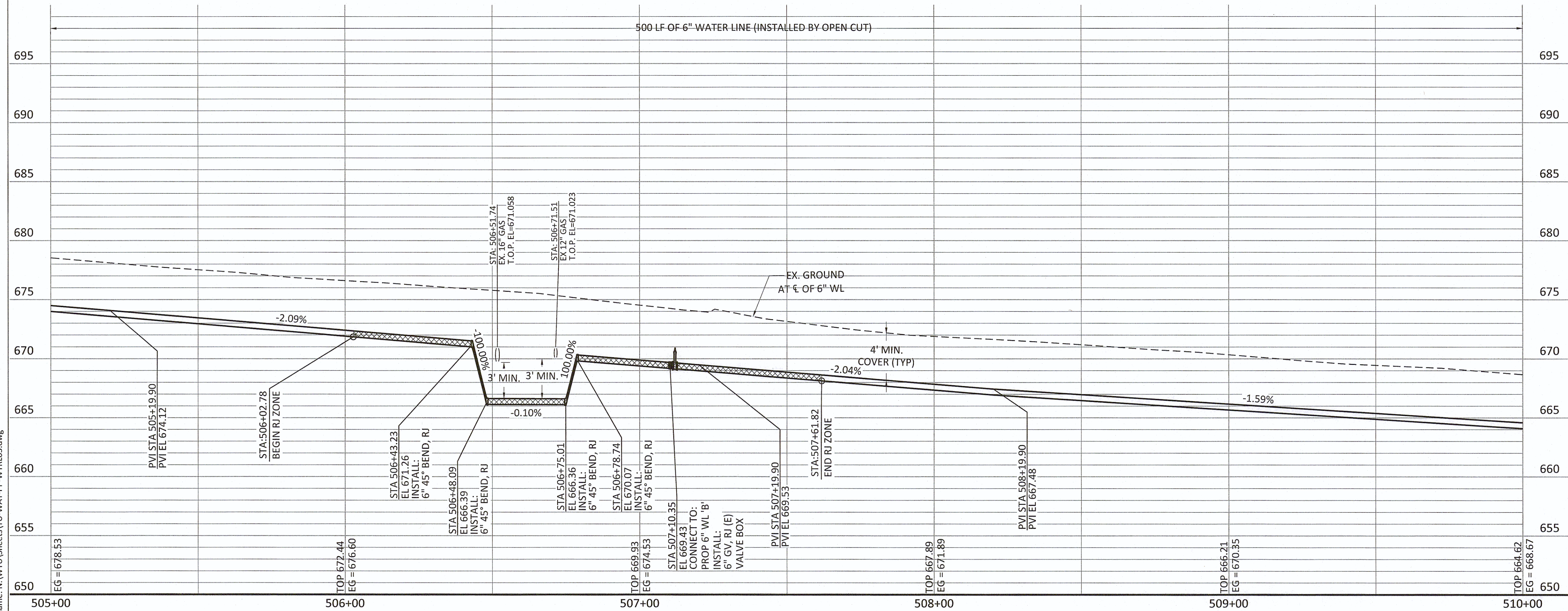


SERVICE CONNECTIONS	
LONG	1
SHORT	0



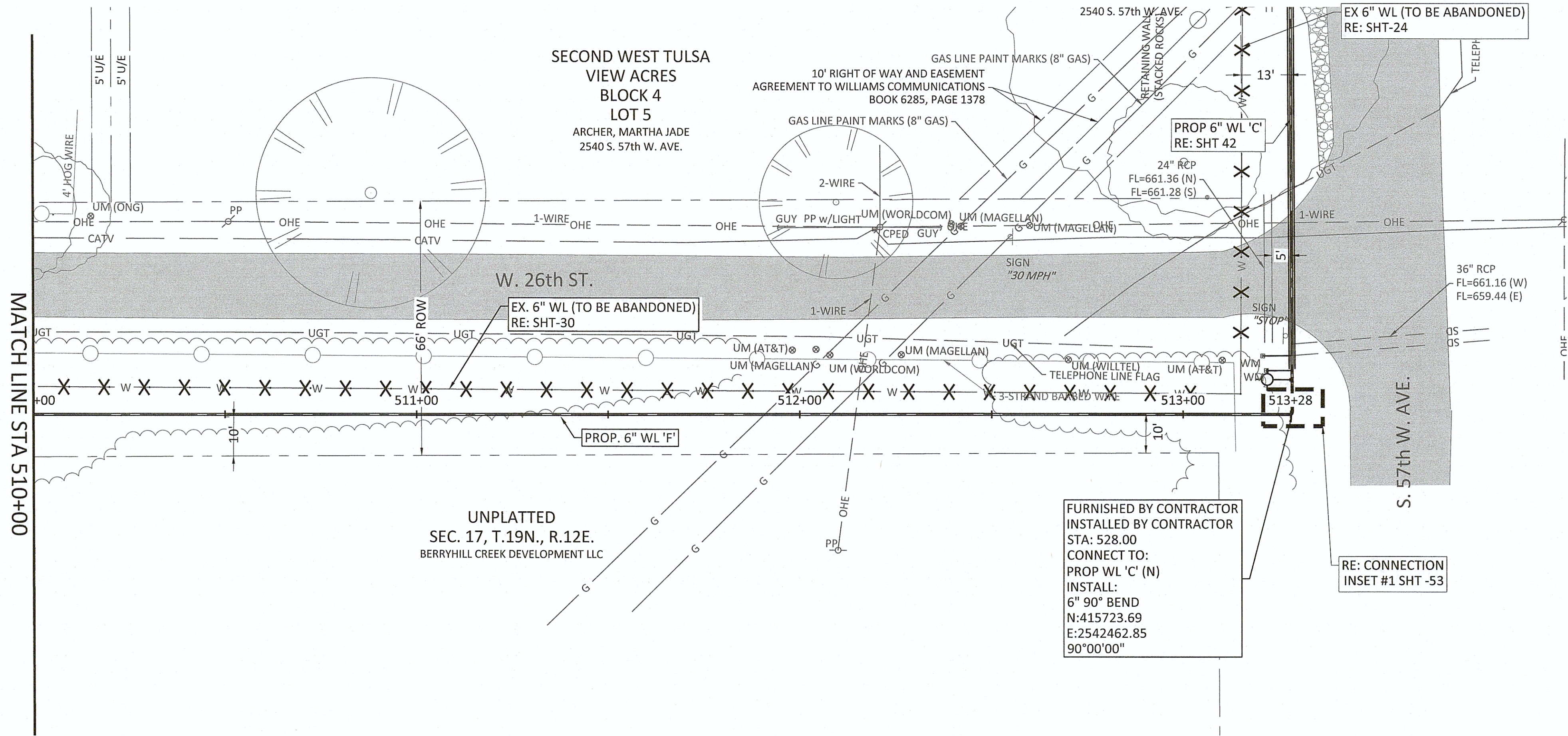
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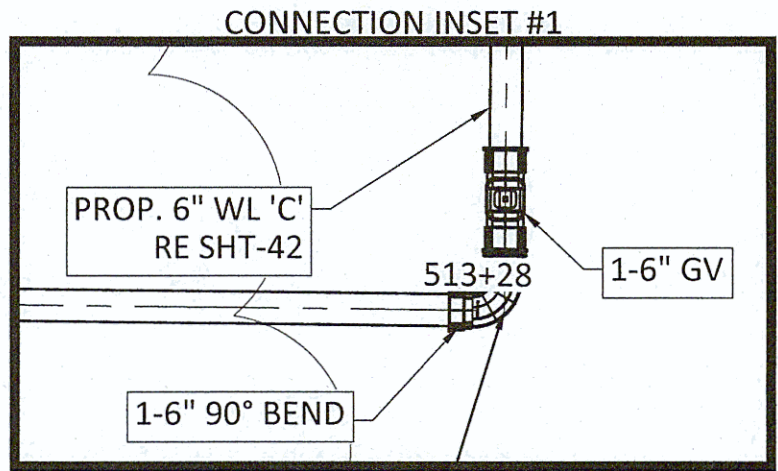


REVISION	BY	DATE
LINE 'F' PLAN AND PROFILE STA 505+00 TO STA 510+00		
PROJECT NO. TMUA-W 21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 802 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	JB MB MV 08/2025 08/2025
HORIZONTAL 1" = 20'	APPROVED: DESIGN MANAGER	
VERTICAL 1" = 5'	DATE:	
FILE: TU-WAT-PP-WTRL03.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 52 OF 53 SHEETS

Filename: N:\WTU\Sheets\TU-WAT-PP-WTRL03.dwg

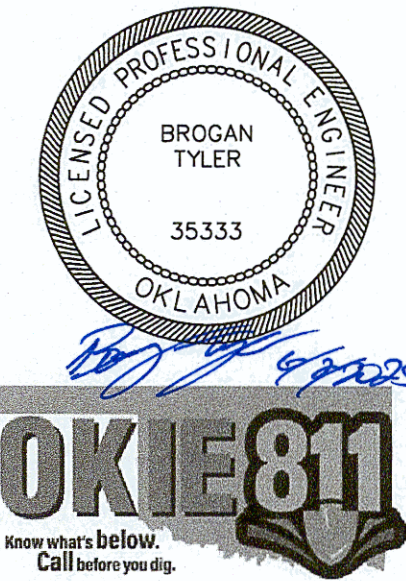
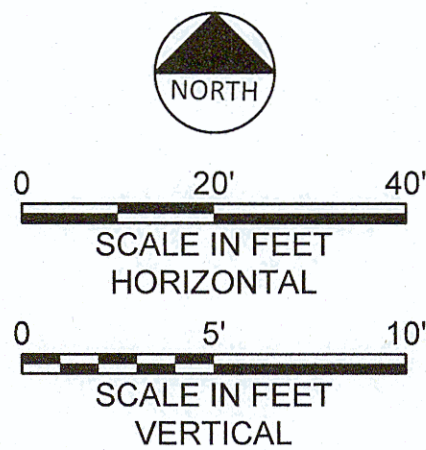
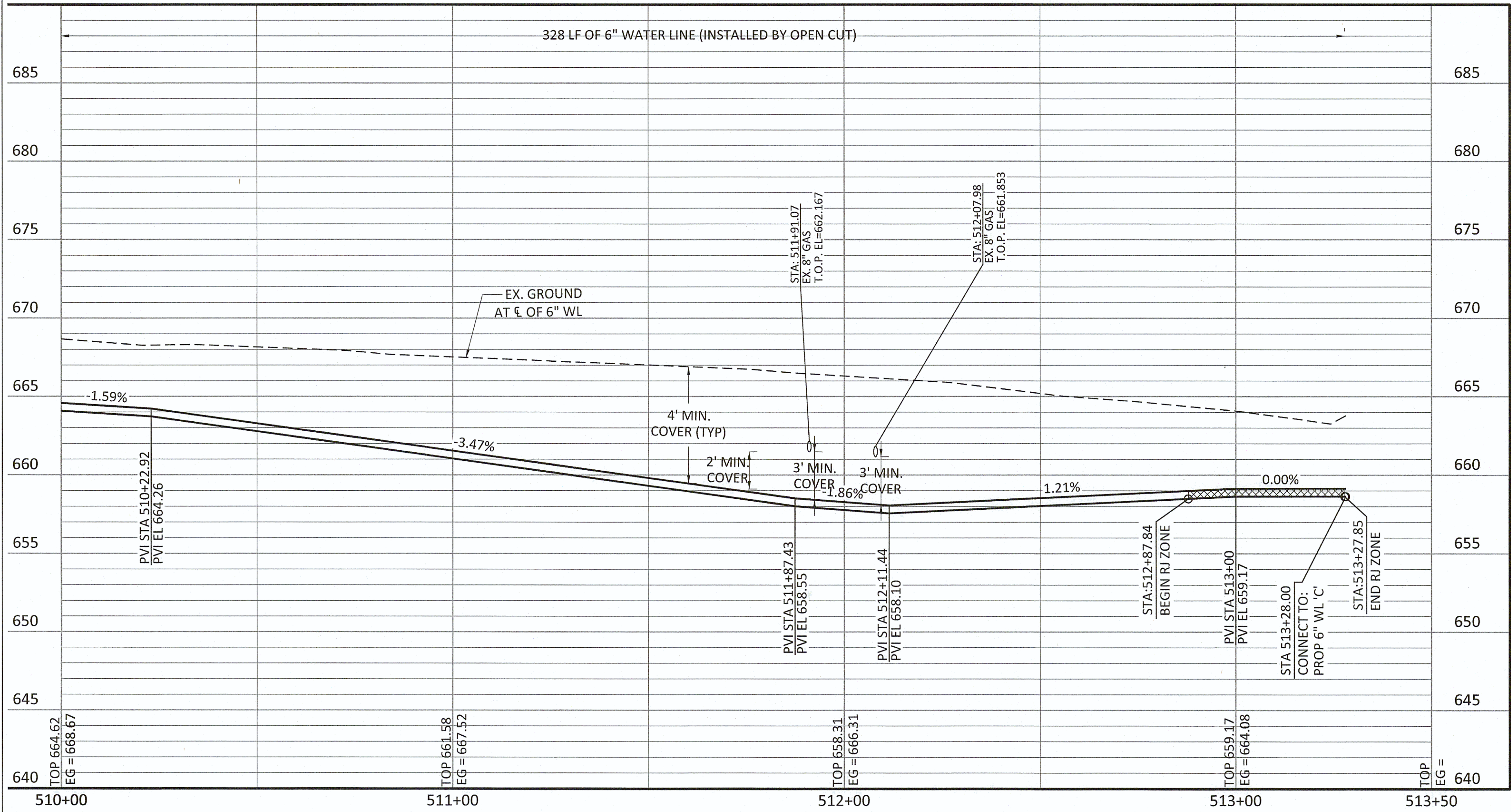


SERVICE CONNECTIONS	
LONG	0
SHORT	0



NOTES:

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REVISION	BY	DATE
LINE 'F' PLAN AND PROFILE STA 510+00 TO STA END		
PROJECT NO. TMUA-W_21-02 TO#12		
BERRYHILL WATER LINE REPLACEMENT		
CITY OF TULSA, OKLAHOMA WATER AND SEWER DEPARTMENT		
PLANS AND ESTIMATES PREPARED BY: FREESE AND NICHOLS, INC.		5100 E. SKELLY DRIVE SUITE 602 TULSA, OK 74135 (539) 444-8677
PLAN SCALE: 1" = 20'	DRAWN DESIGNED SURVEY	TW EA NP 4/2025 4/2025 11/2024
PROFILE SCALE: 1" = 20'	PROJ. MGR. LEAD ENGR. FIELD MGR.	<i>[Signature]</i> <i>[Signature]</i> <i>[Signature]</i> 6/2015
VERTICAL 1" = 5'		<i>[Signature]</i> DESIGN MANAGER
FILE: TU-WAT-PP-WTRL03.dwg		DATE:
ATLAS PAGE NO: 65 & 66		SHEET 53 OF 53 SHEETS