

**OWNER**

CLYDESDALE TULSA HOLDINGS, LLC  
 2727 E. 21ST STREET, STE 200  
 TULSA, OK 74115  
 CONTACT: LOU REYNOLDS  
 PHONE: 918-747-8900  
 EMAIL: LREYNOLDS@ELLERDETRICH.COM

**ENGINEER**

**Kimley»Horn**  
 1437 SOUTH BOULDER AVE, SUITE 930  
 TULSA, OK 74119  
 EMAIL: DEVIN.RANDALL@KIMLEY-HORN.COM  
 PHONE: 918-380-8868  
 CONTACT: DEVIN RANDALL

CITY OF TULSA DETAILS

STANDARD	DESCRIPTION
534	10" METER WITH PRESSURE SUSTAINING VALVE AND VAULT
304A	TRENCH DETAIL WATERLINE
305	BEDDING DETAIL FLEXIBLE PIPE
306	TRENCH DETAIL CONSTRUCTION ADJACENT TO ROADWAY
307	BORE/OPEN CUT CONDUIT DETAIL
366	STANDARD DETAIL FOR MANHOLE STEP LOCATION AND INVERT DETAILS
314	STANDARD DETAIL MANHOLE STEPS
331	STANDARD DETAIL PRE-CAST SANITARY SEWER MANHOLES
358	STANDARD DETAIL PRE-CAST SANITARY SEWER MANHOLES
354	STANDARD DETAIL FRAME AND LID FOR 4' I.D. AND LARGER SANITARY MANHOLE
359	FRAME AND COVER FOR FLOOD PLAIN APPLICATION
351	BEDDING DETAIL POLYVINYL CHLORIDE FLEXIBLE SANITARY SEWER PIPE
368	STANDARD ELEVATED MANHOLE

\*CONTRACTOR SHALL PROVIDE AND MAINTAIN CONSTRUCTION AS-BUILTS AS PER COT SPEC 334. SAMPLING AND TESTING SHALL BE PER COT SPEC 335.  
 \*\*ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CITY OF TULSA STANDARDS AND SPECIFICATIONS.

**ENGINEER'S STATEMENT**  
 BY MY SIGNATURE ON THESE CONSTRUCTION DOCUMENTS, I HEREBY CERTIFY THAT I AM FAMILIAR WITH THE ADOPTED ORDINANCES AND REGULATIONS OF THE CITY OF TULSA GOVERNING THE ITEMS IN THE IDP DESCRIPTION; THAT THESE PLANS HAVE BEEN PREPARED UNDER MY DIRECT SUPERVISION; THE ABOVE AND FOREGOING PLANS COMPLY WITH ALL GOVERNING ORDINANCES AND THE ADOPTED STANDARDS OF THE CITY OF TULSA TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ENTIRE PROJECT IS WITHIN CORPORATE LIMITS OF TULSA COUNTY. THIS PROJECT COMPLIES WITH ALL OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY(ODEQ) REQUIREMENTS.

**IDP DESCRIPTION**  
 THIS IS A SET OF IDP PLANS FOR PROJECT CLYDESDALE LOCATED AT THE NW/4 OF N SHERIDAN RD AND E 76TH ST N IN TULSA COUNTY, OKLAHOMA. THE PROJECT WILL CONSIST OF THE FOLLOWING:  
 • WATERLINE EXTENSION  
 • SANITARY SEWER MANHOLE  
 • SANITARY SEWER LINE ABANDONMENT

**OWNER'S STATEMENT**  
 I HEREBY CERTIFY TO THE CITY OF TULSA, THAT THE APPROVED PLANS WILL BE IMPLEMENTED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

PROJECT CLYDESDALE  
 BY: \_\_\_\_\_

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

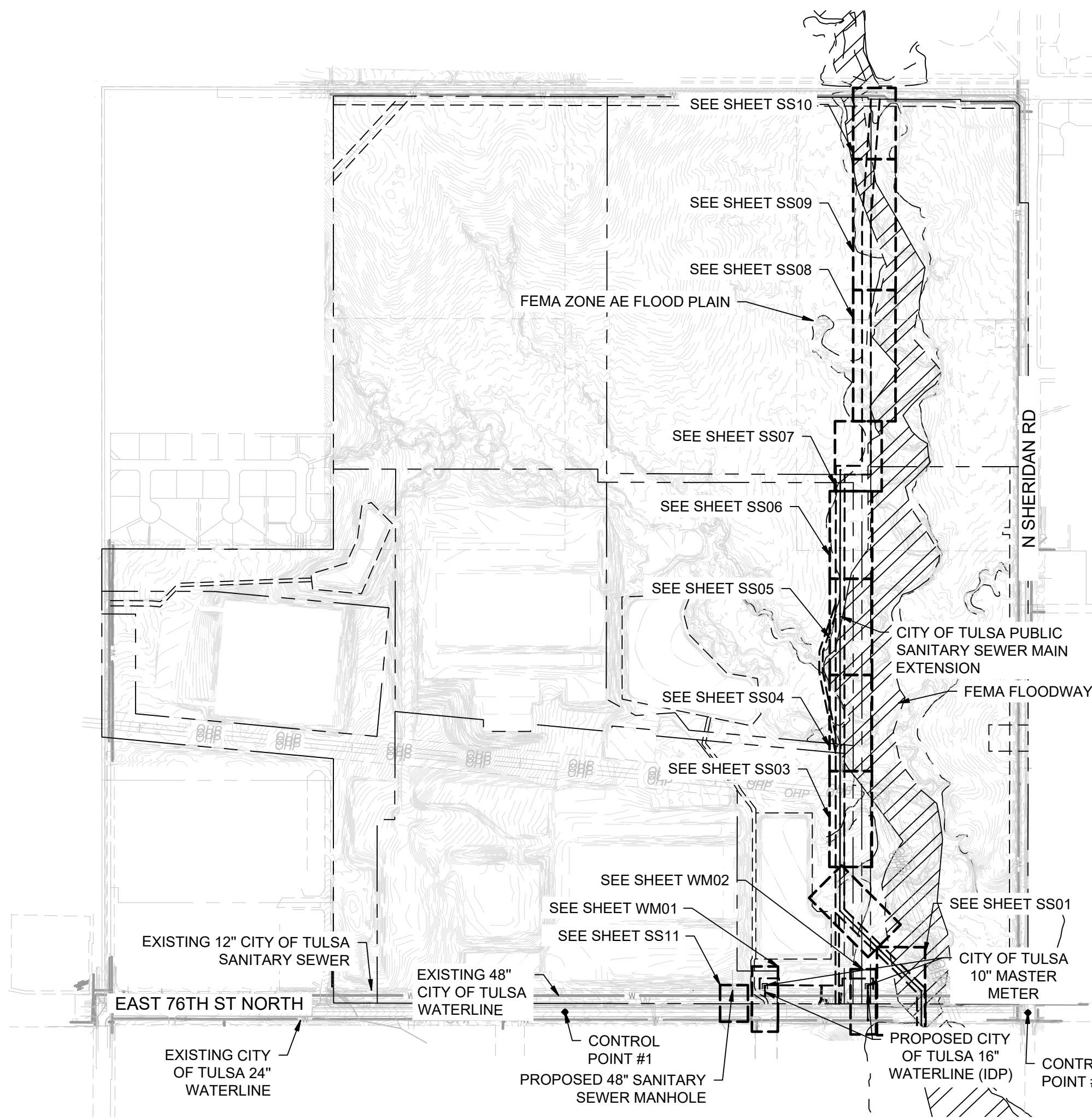
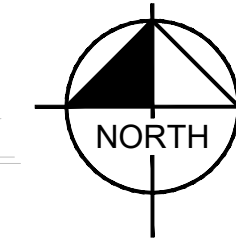
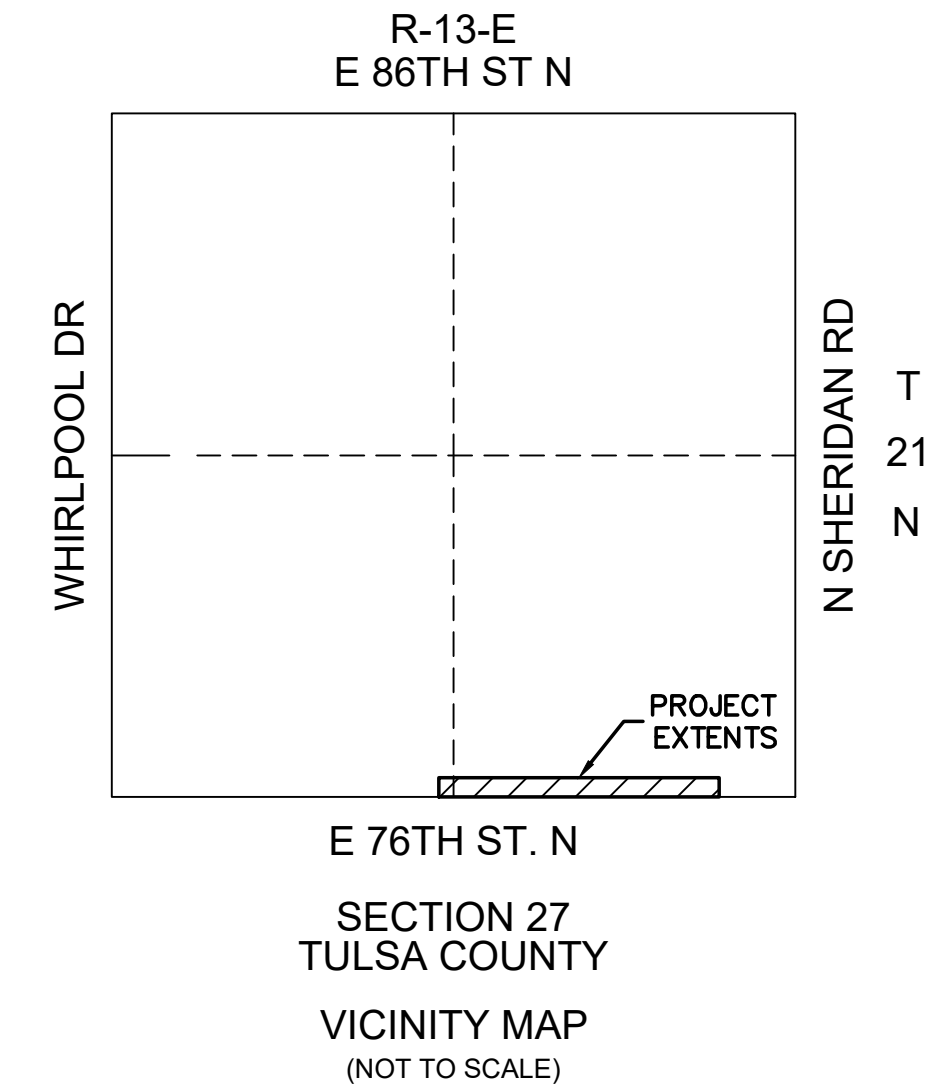


Know what's below.  
 Call before you dig.

UTILITY COORDINATION BOX		
TITLE	NUMBER	CONTACT
UTILITY COORDINATION SUPERVISOR	918-596-2578	GARY MCCLENDON
INFRASTRUCTURE DEVELOPMENT MANAGER	918-596-7285	MICHAEL LING, P.E.

# CONSTRUCTION PLANS FOR PROJECT CLYDESDALE

**IDP #228249-2025**  
**EAST 76TH STREET NORTH**  
**TULSA COUNTY, OKLAHOMA**  
**74073**



ITEMIZED IDP DESCRIPTION			
SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY
COT 312	16 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	178
COT 312	24 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	5
COT 534	10" METER WITH PRESSURE SUSTAINING VALVE AND VAULT	EA	2
COT 361	24"x24" INLINE TEE	EA	1
COT 312	24"x16" REDUCER	EA	1
COT 312	16"x10" REDUCER	EA	2
COT 312	JACK AND BORE 30" 1/2" STEEL CASING	LF	79
COT 361	48"x16" TAPPING SLEEVE AND VALVE	EA	1
COT 312	16" DIP 45° BEND (RJ)	EA	6
COT 368	4' I.D. MANHOLE	EA	1
COT 368	6' I.D. MANHOLE	EA	11
COT 313	24" PVC SDR-26	LF	3301

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
GE01	COVER SHEET
GE02	SANITARY SEWER IMPROVEMENT DISTRICT- OVERALL
GE03	PRE-PROJECT DRAINAGE AREA MAP
WM01	DWTR-IDP-1 PLAN AND PROFILE
WM02	DWTR-IDP-2 PLAN AND PROFILE
SS01	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS02	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS03	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS04	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS05	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS06	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS07	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS08	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS09	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS10	SSWR-IDP-EXTENSION PLAN AND PROFILE
SS11	SSWR-IDP PLAN AND PROFILE
SS12	SSWR-IDP TABLE OF STATE PLANE COORDINATES
EC01	EROSION CONTROL PLAN

**DATUM**  
 HORIZONTAL  
 NAD 83 OKLAHOMA STATE PLANE  
 COORDINATE SYSTEM NORTH ZONE 3501  
 VERTICAL  
 NAVD 88

CONTROL POINT #1		CONTROL POINT #2	
ELEVATION	683.38 (NAVD 1988)	ELEVATION	617.62 (NAVD 1988)
MONUMENT	3/4" REBAR	MONUMENT	MAGNAIL
LOCATION	N: 466707.64 E: 2581682.53	LOCATION	N: 466816.88 E: 2580975.73

**PROJECT LOCATION SECTION 27, T-21N, R-13E, TULSA COUNTY**  
**SUBDIVISION: UNPLATTED (91327)**  
**LEGAL: S/2 SEC LESS SW SW & LESS S50 THEREOF FOR RD & LESS E50 N300 S350 SE SE & LESS BEG 1322.32N SWC TH N246.67 ELY 1329.29 S125.19 W1323.44 POB & W/2 NE LESS N60 THEREOF FOR RD & SE NE & SE SE NW SEC 27 21 13 397.643 ACS**  
**ATLAS PAGE: 1077 AND 950**

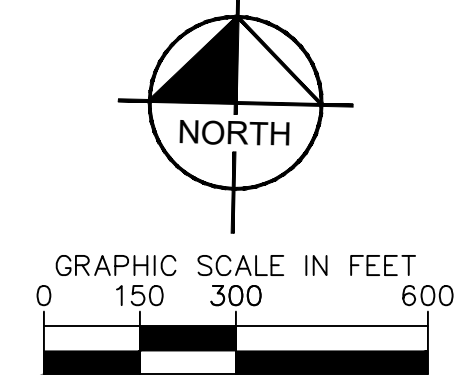
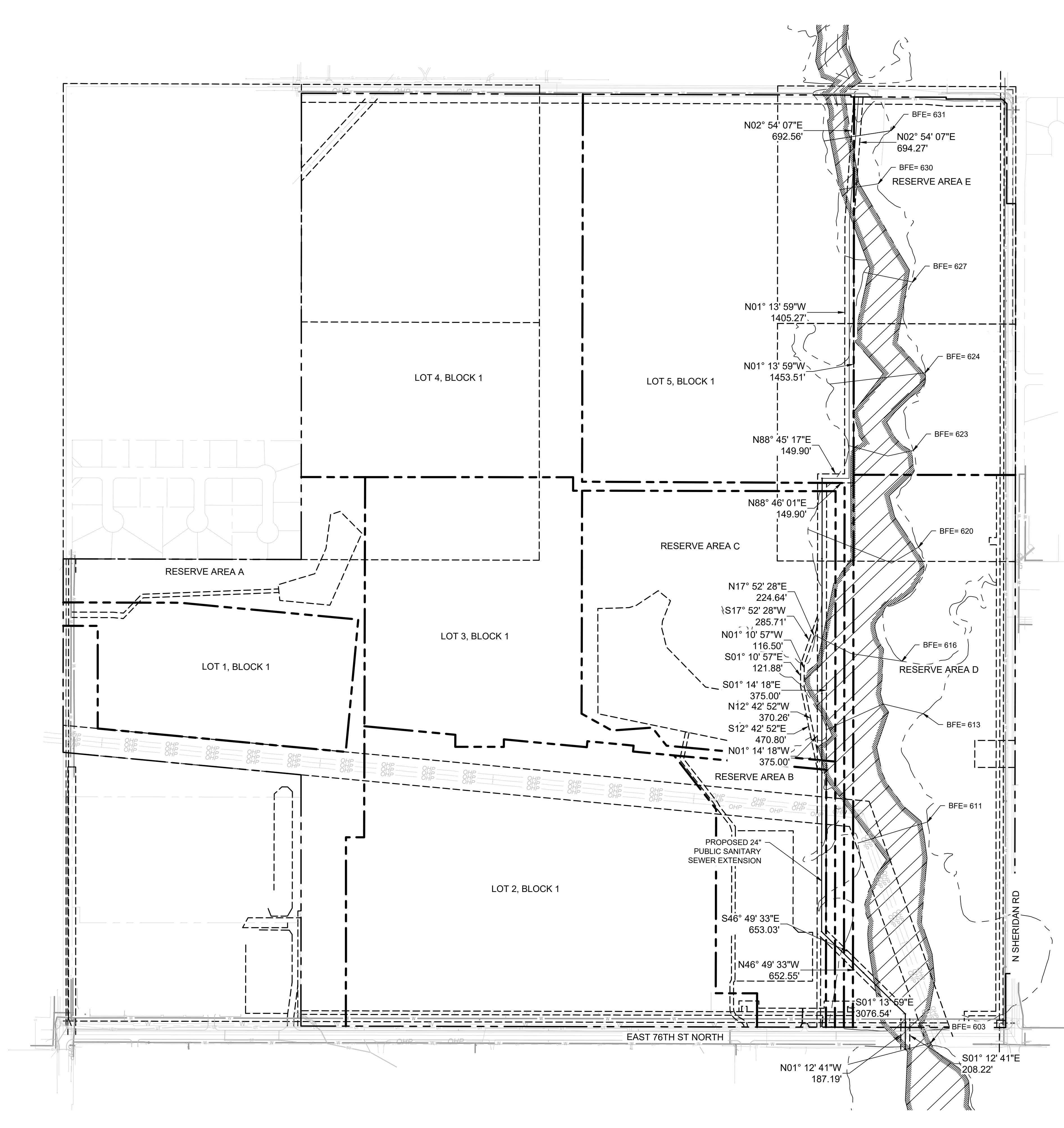
## JANUARY 2026

APPROVED FOR IDP PERMIT ONLY

Michael Ling, PE  
 Infrastructure Development Manager  
 City of Tulsa

GE01

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:03pm File Path: C:\ACCC\ACCC\Projects\Kimley-Horn\060057900\_CVL\Project Files\03\_Civil\SPS\07\_CVL\1A-IDP - SSMR.dwg  
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DATUM	
HORIZONTAL	
NAD 83 OKLAHOMA STATE PLANE	
COORDINATE SYSTEM NORTH ZONE 3501	
VERTICAL	
NAVD 88	

CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53

CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466816.88 E: 2580975.73

SUMMARY OF SANITARY SEWER QUANTITIES				
ITEM	SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	COT 368	6" I.D. MANHOLE	EA	11
2	COT 305	24" PVC SDR-26	LF	3301
3	COT 366	4" I.D. MANHOLE	EA	1

BACKFLOW PREVENTER TABLE					
SERVICE MH #	LOT/BLOCK #	PAD FFE	U/S TR	D/S TR	BACKFLOW PREVENTER REQUIRED?
PR-MH-12	LOT 2, BLOCK 1	657.5, 640	637.90	624	NO
PR-MH-06	LOT 3, BLOCK 1	662	612.62	611.83	NO
PR-MH-10	LOT 4, BLOCK 1	660	623.11	618.12	NO
PR-MH-11	LOT 5, BLOCK 1	660	624	622.2	NO

FLOW CALCULATION TABLE				
SERVICE LINE	LOT/BLOCK #	ACRES	DESIGN FLOW	ORDINANCE FLOW
PR-MH-12	LOT 2, BLOCK 1	73.4	0.63	0.49
PR-MH-06	LOT 3, BLOCK 1	44.1	0.54	0.32
PR-MH-10	LOT 4, BLOCK 1	81.3	0.54	0.53
PR-MH-11	LOT 5, BLOCK 1	77.8	0.54	0.51

SEPARATE INSTRUMENT EASEMENT					
EASEMENT	TYPE	OWNER	SHEET #	BK	PG
50' CITY OF TULSA SANITARY SEWER EASEMENT	SANITARY SEWER	CLYDESDALE TULSA HOLDINGS, LLC	GE02		
20' CITY OF TULSA ACCESS EASEMENT	ACCESS	CLYDESDALE TULSA HOLDINGS, LLC	GE02		
CITY OF TULSA WATER EASEMENT	WATER	CLYDESDALE TULSA HOLDINGS, LLC	WM01		
CITY OF TULSA WATER EASEMENT	WATER	CLYDESDALE TULSA HOLDINGS, LLC	WM02		

**LEGAL DESCRIPTION NOTE:**

PROPERTY IS BEING PLATTED, AND EASEMENTS CURRENTLY SHOWN IN THE PLANS ARE PER PROPOSED PLAT UNLESS OTHERWISE NOTED. THE PLAT HAS BEEN FILED IN TULSA COUNTY ON 2/20/2026. ALL LOTS AND BLOCKS DEPICTED IN PLAN VIEW ARE RECORDED WITH PROJECT CLYDESDALE FINAL PLAT.



APPROVED FOR IDP PERMIT ONLY  
 Michael Ling, PE Date \_\_\_\_\_  
 Infrastructure Development Manager  
 City of Tulsa

No.	REVISIONS	DATE	BY

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 1437 SOUTH BOULDER AVE, SUITE 900 TULSA, OK 74119  
 PHONE: 918-380-8888 FIRM NO. 2740 EXP. JUNE 30, 2027  
 WWW.KIMLEY-HORN.COM

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 Engineer: \_\_\_\_\_  
 P.E. No. \_\_\_\_\_

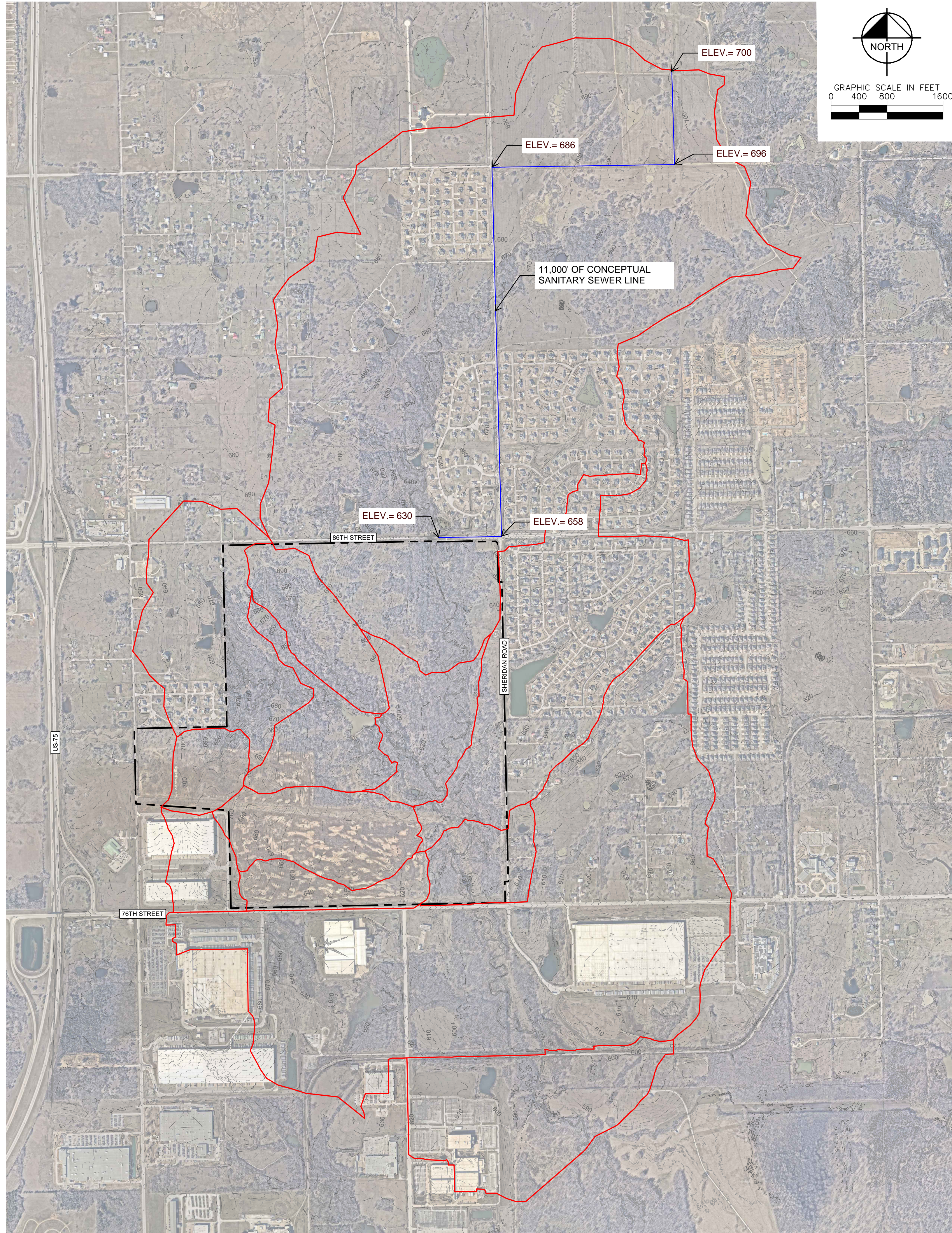
KHA PROJECT	CLYDESDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

**PROJECT**  
**CLYDESDALE**

**SANITARY SEWER IMPROVEMENT DISTRICT - OVERALL**

SHEET NUMBER  
**GE02**

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**Legend**

- Property Boundary
- Pre-Project Drainage Area
- 2-FT Existing Topography

Image Source: NearMap (February 2025)

DRAINAGE AREA CALCULATIONS		
DA	AREA (AC)	Qm (MGD)
DRAINAGE AREA	2262.32	8.07

MAXIMUM ELEVATION AT OUR SITE:  
 $697' - (11,000' * .006) + (25' * 0.1) = 617.5'$   
 \*ASSUMING 3' COVER OF STARTING ELEVATION OF 700'  
 \*ASSUMING 0.7% SLOPE  
 \*ASSUMING 25 MANHOLES WITH 0.1 DROP  
 PROPOSED ELEVATION LEAVING OUR SITE IS 614'

NO.	REVISIONS	DATE	BY

**Kimley-Horn**

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**Kimley-Horn**

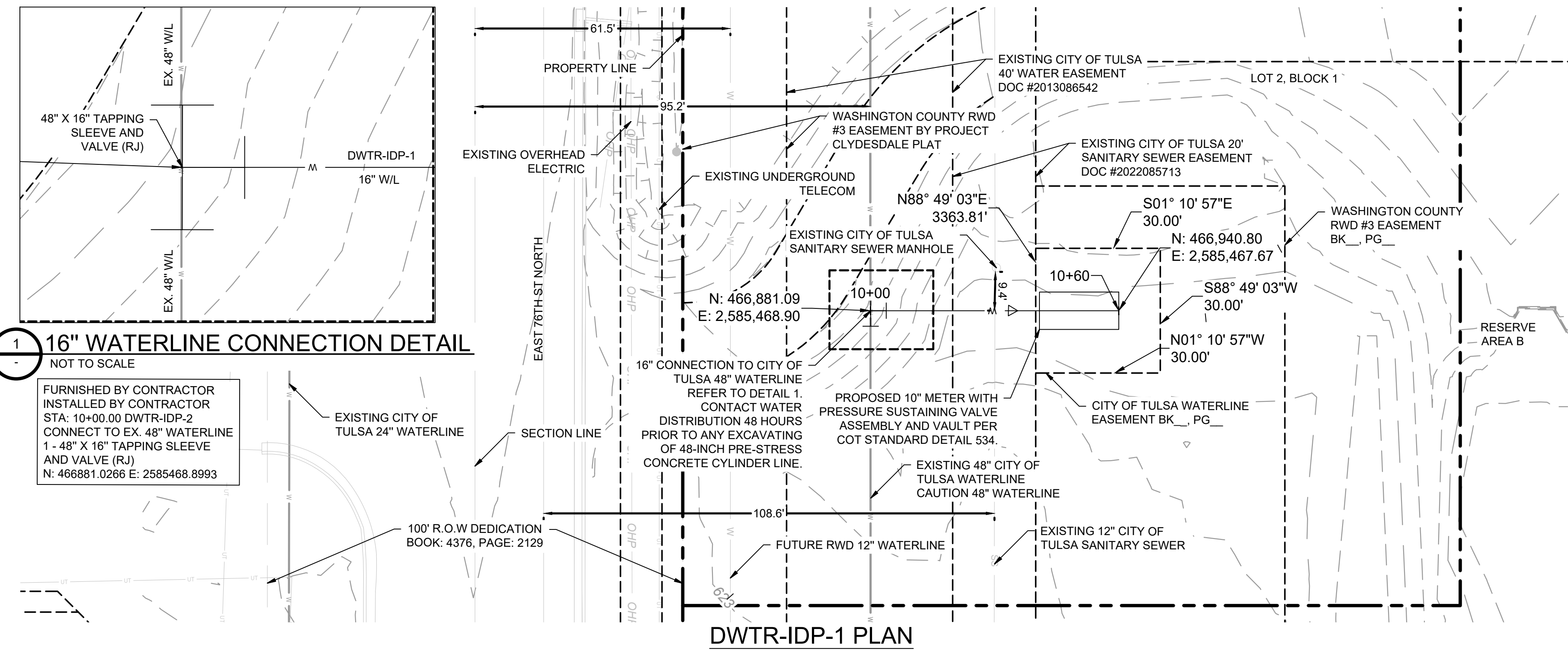
KHA PROJECT	CYLEDSDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY:	DR
DRAWN BY:	DB
CHECKED BY:	DR

**PROJECT**  
**CYLEDSDALE**

**PRE-PROJECT**  
**DRAINAGE AREA MAP**

SHEET NUMBER  
**GE03**

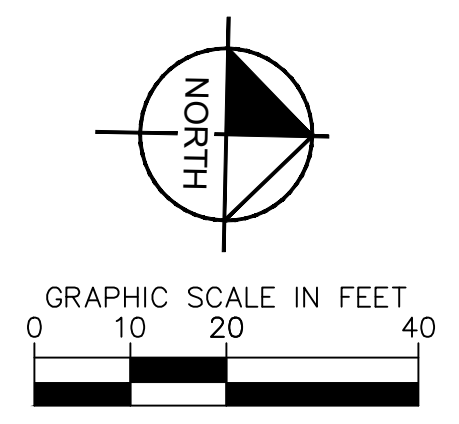
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DWTR-IDP-1 PLAN

**16" WATERLINE CONNECTION DETAIL**  
 NOT TO SCALE

FURNISHED BY CONTRACTOR  
 INSTALLED BY CONTRACTOR  
 STA: 10+00.00 DWTR-IDP-2  
 CONNECT TO EX. 48" WATERLINE  
 1 - 48" X 16" TAPPING SLEEVE  
 AND VALVE (RJ)  
 N: 466881.0266 E: 2585468.8993



**DATUM**

HORIZONTAL	NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501
VERTICAL	NAVD 88

**CONTROL POINT #1**

ELEVATION	683.38 (NAVD 1988)
MONUMENT	3/4" REBAR
LOCATION	N: 466707.64 E: 2581682.53

**CONTROL POINT #2**

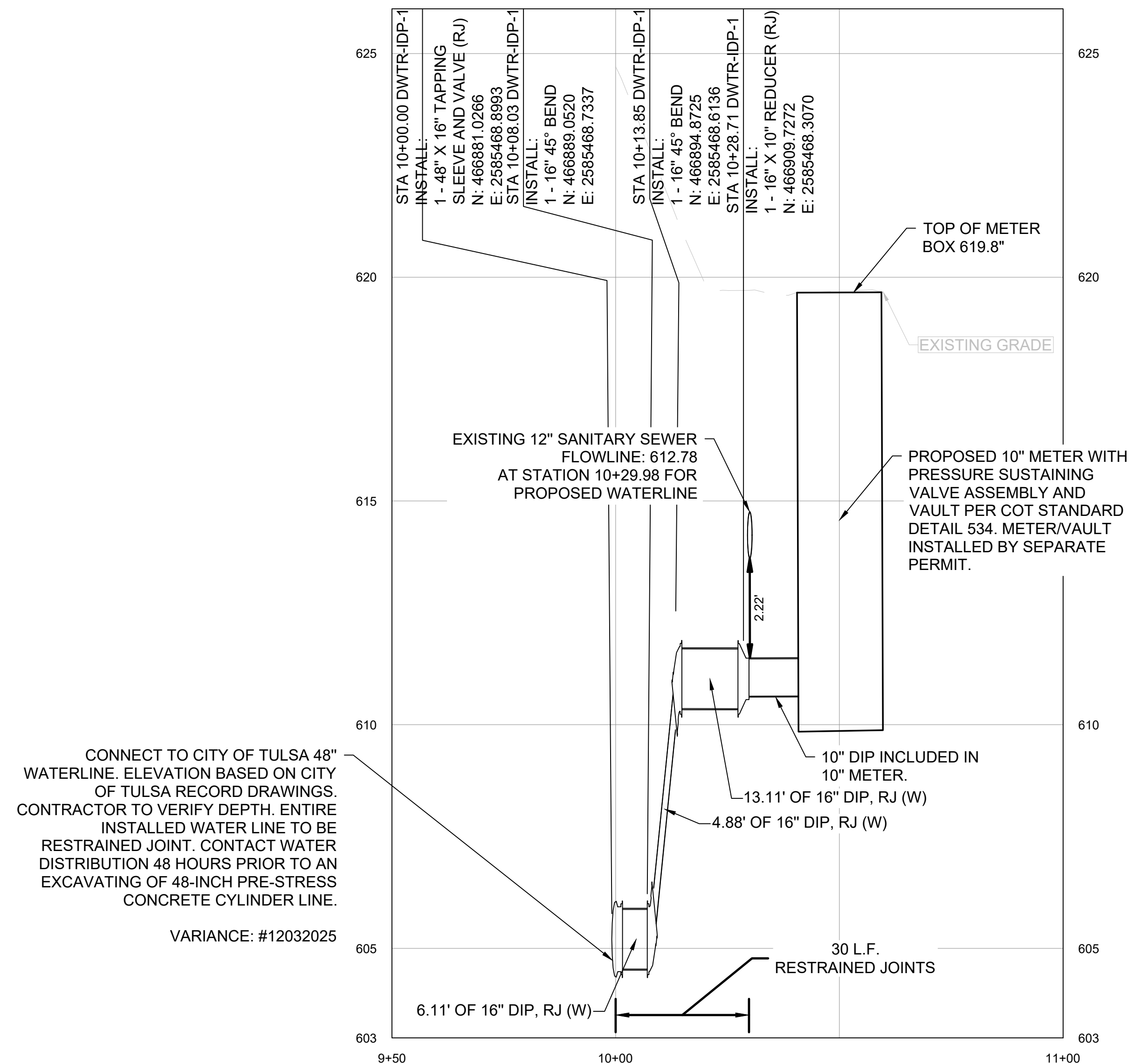
ELEVATION	617.62 (NAVD 1988)
MONUMENT	MAGNAIL
LOCATION	N: 466816.88 E: 2580975.73

**SUMMARY OF WATERLINE QUANTITIES**

ITEM	SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	COT 312	16 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	24
4	COT 534	10" METER WITH PRESSURE SUSTAINING VALVE AND VAULT	EA	1
5	COT 361	48"X16" TAPPING SLEEVE AND VALVE	EA	1
7	COT 312	16"X10" REDUCER	EA	1
8	COT 312	16" DIP 45° BEND (RJ)	EA	2

**WATERLINE NOTES:**

- TESTING, CHLORINATING AND FLUSHING NOTES PERFORMED IN ACCORDANCE WITH GENERAL SPECIFICATIONS, SECTION 109.3.
- TESTING AND CHLORINATION TO BE PERFORMED BY CITY OF TULSA.
- NO WATER SERVICE CONNECTIONS WILL BE ALLOWED UNDER IDP SCOPE OF WORK.
- 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.
  - 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 918-598-9488, 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.
  - 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 HOURS NOTICE TO WATER OPERATIONS.
- ALL WATER LINES SHOWN TO BE RESTRAINED JOINT.



DWTR-IDP-1 PROFILE

CONNECT TO CITY OF TULSA 48" WATERLINE. ELEVATION BASED ON CITY OF TULSA RECORD DRAWINGS. CONTRACTOR TO VERIFY DEPTH. ENTIRE INSTALLED WATER LINE TO BE RESTRAINED JOINT. CONTACT WATER DISTRIBUTION 48 HOURS PRIOR TO AN EXCAVATING OF 48-INCH PRE-STRESS CONCRETE CYLINDER LINE.

VARIANCE: #12032025



APPROVED FOR IDP PERMIT ONLY

Michael Ling, PE Date  
 Infrastructure Development Manager  
 City of Tulsa

No.	REVISIONS	DATE	BY

**Kimley-Horn**

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**Kimley-Horn**

Engineer  
 P.E. No. \_\_\_\_\_

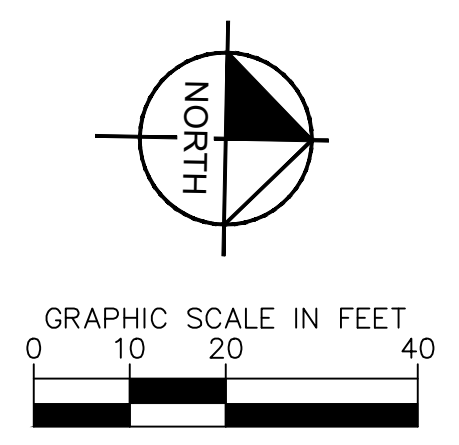
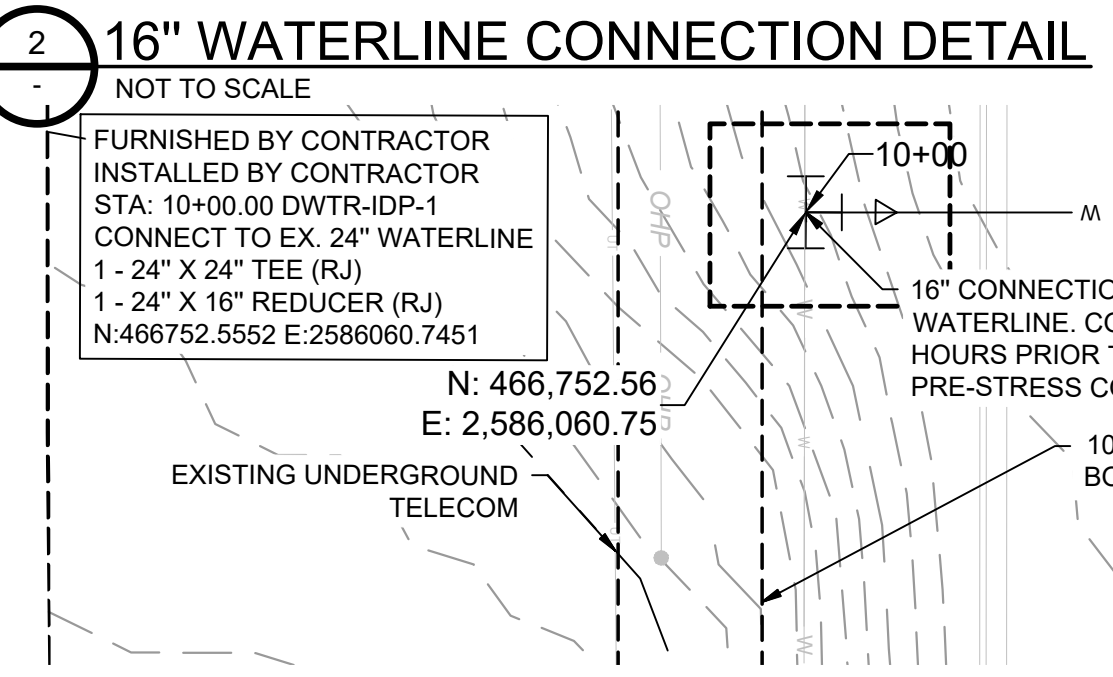
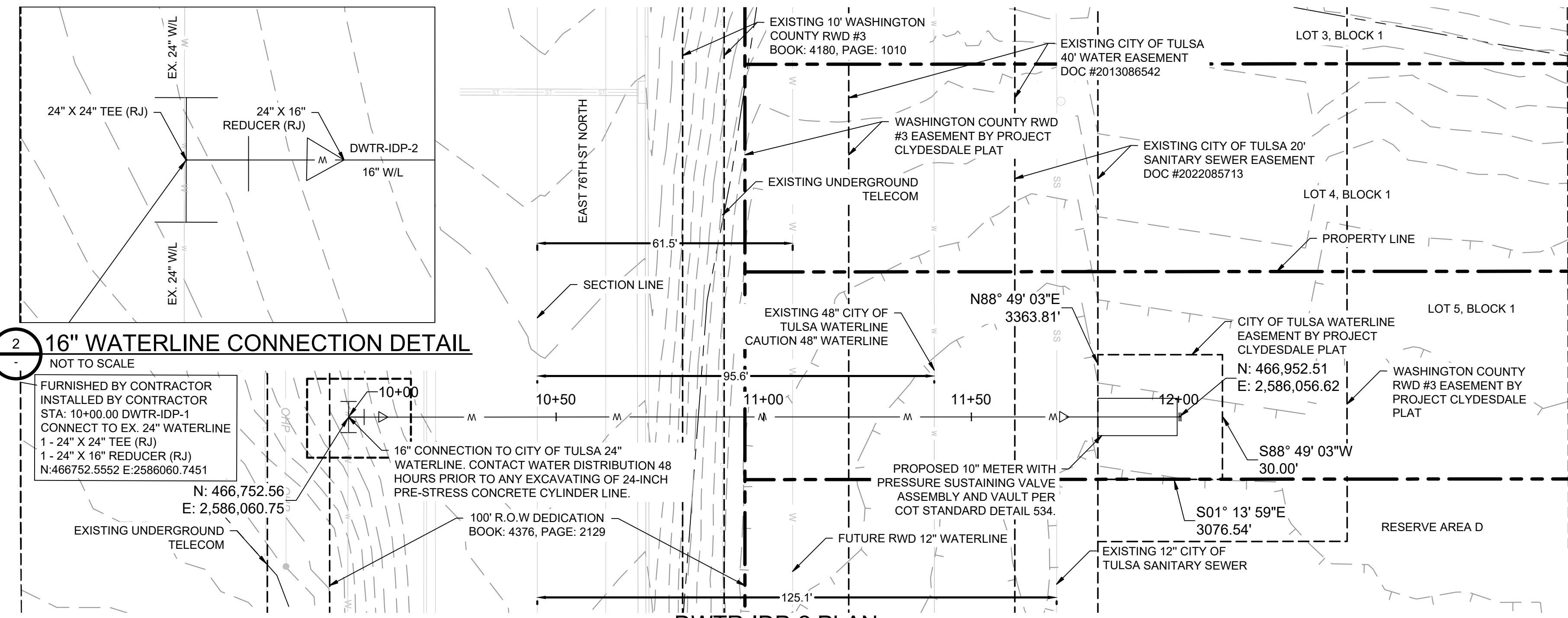
KHA PROJECT	Clydesdale
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

**PROJECT**  
 CLYDESDALE

**DWTR-IDP-1**  
 PLAN AND PROFILE

SHEET NUMBER  
**WM01**

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:10pm File Path: C:\ACC\ACCDOCS\Kimley-Horn\060057900\_Cyl\Project Files\00\_Civil\SPS\07\_City of Tulsa IDP\_03\_Production-DWG\DWG\CYL-1A-IDP - SSMR.dwg  
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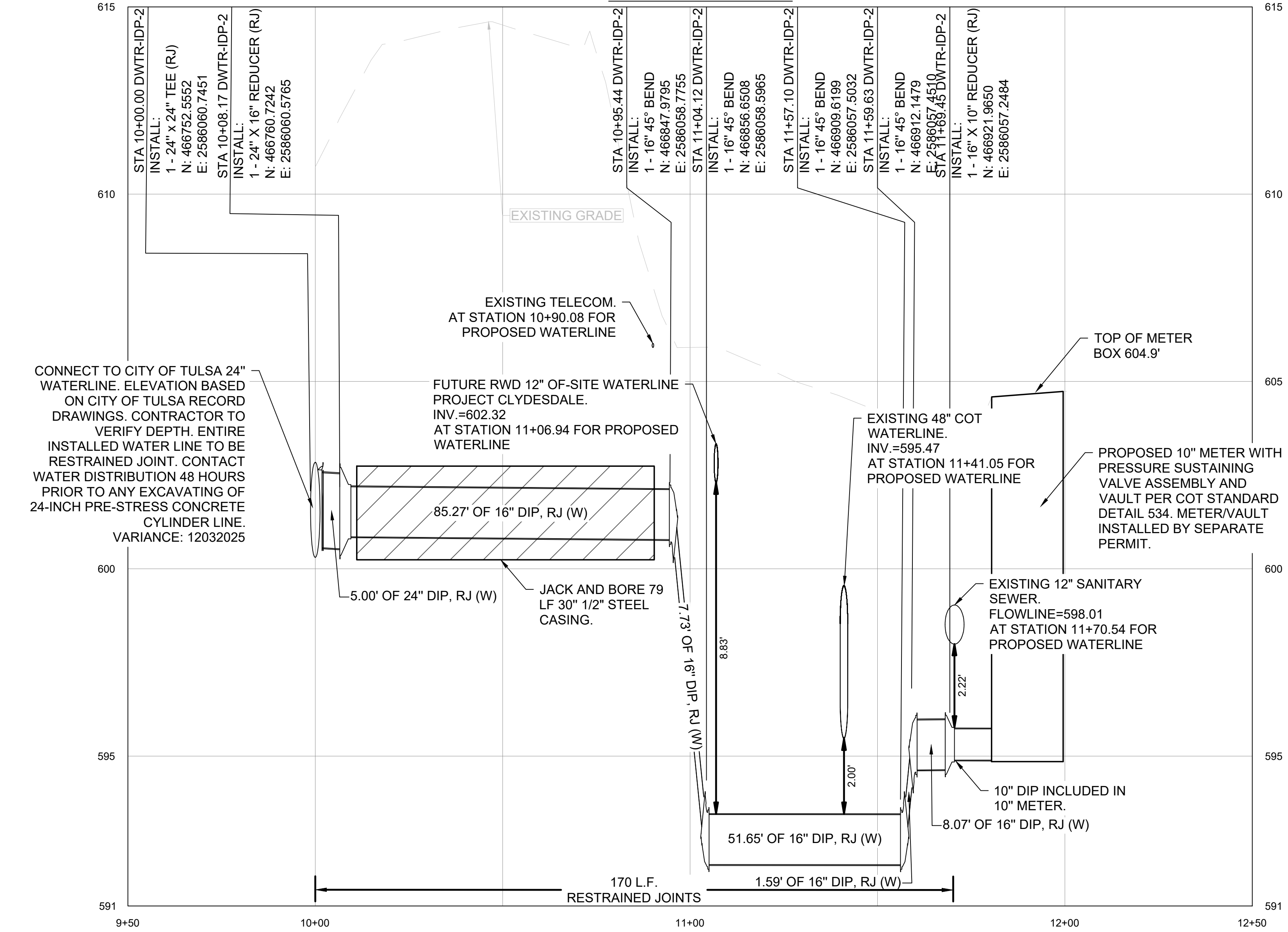
**DATUM**  
 HORIZONTAL  
 NAD 83 OKLAHOMA STATE PLANE  
 COORDINATE SYSTEM NORTH ZONE 3501  
 VERTICAL  
 NAVD 88

**CONTROL POINT #1**  
 ELEVATION 683.38 (NAVD 1988)  
 MONUMENT 3/4\"/>

**CONTROL POINT #2**  
 ELEVATION 617.62 (NAVD 1988)  
 MONUMENT MAGNAIL  
 LOCATION N: 466816.88  
 E: 2580975.73

SUMMARY OF WATERLINE QUANTITIES				
ITEM	SPEC. NO.	ITEM DESCRIPTION	UNIT	QUANTITY
1	COT 312	16 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	154
2	COT 312	24 INCH DIP, CL50 POLYETHYLENE WRAPPED (RJ)	LF	5
4	COT 534	10\"/>		

- WATERLINE NOTES:**
- TESTING, CHLORINATING AND FLUSHING NOTES PERFORMED IN ACCORDANCE WITH GENERAL SPECIFICATIONS, SECTION 109.3.
  - TESTING AND CHLORINATION TO BE PERFORMED BY CITY OF TULSA.
  - NO WATER SERVICE CONNECTIONS WILL BE ALLOWED UNDER IDP SCOPE OF WORK.
  - WATER OPERATIONS SHALL OPERATE ALL VALVES ON TRANSMISSION MAINS (16\"/>

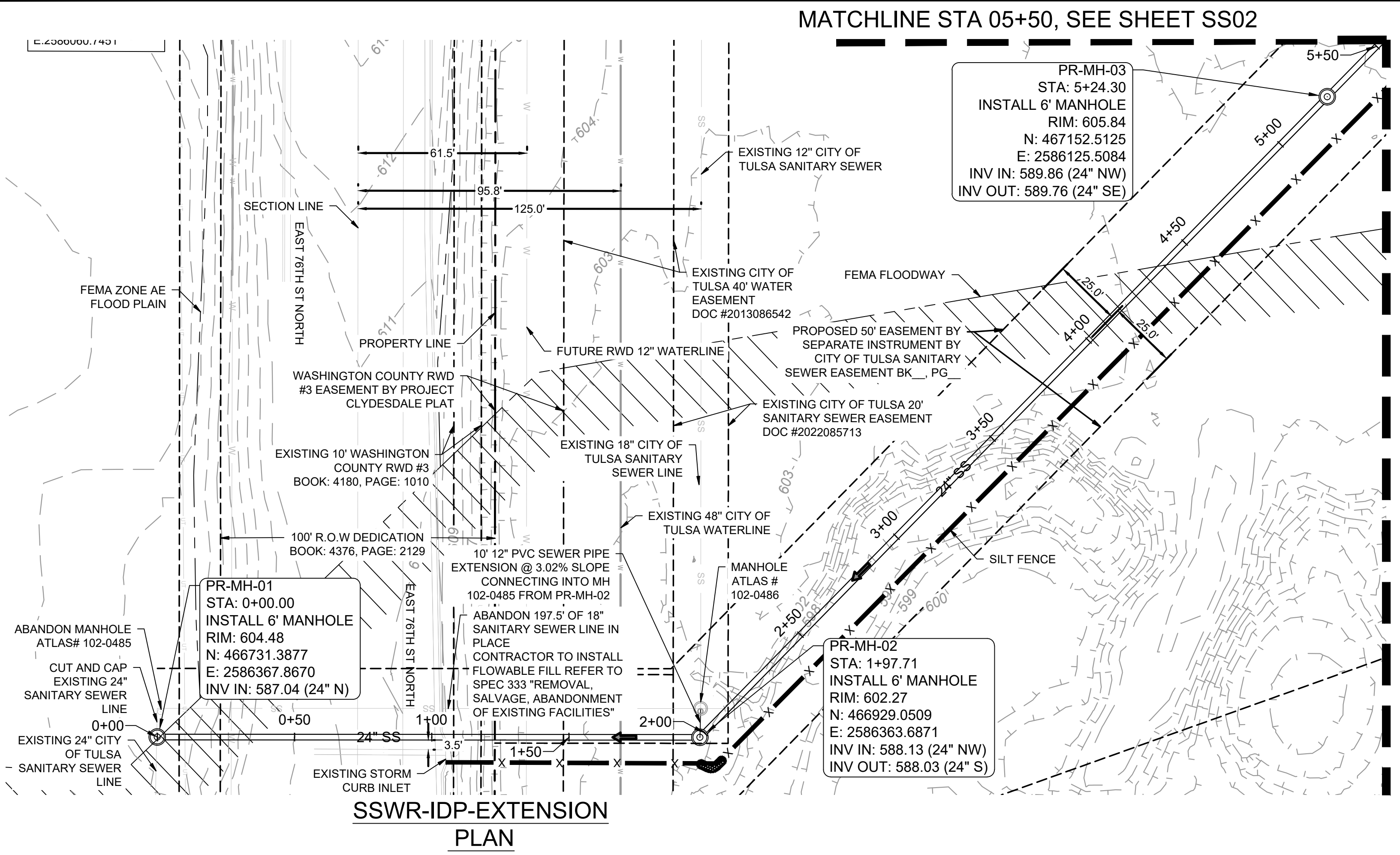


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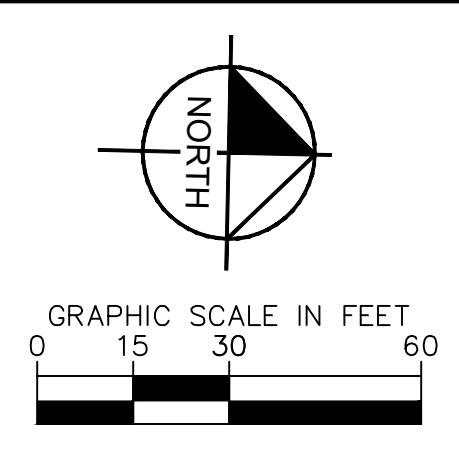
Michael Ling, PE Date \_\_\_\_\_  
 Infrastructure Development Manager  
 City of Tulsa

<p style="font-size: 8px; margin-top: 5px;">© 2025 KIMLEY-HORN AND ASSOCIATES, INC.        1437 SOUTH BOULDER AVE., SUITE 800 TULSA, OK 74119        PHONE: 918-380-8888 FIRM NO. 2740, EXP. JUNE 30, 2027        WWW.KIMLEY-HORN.COM</p>	<p style="font-size: 12px; margin: 0;">KHA PROJECT          CLYDESDALE</p> <p style="font-size: 10px; margin: 0;">DATE          APRIL 2026</p> <p style="font-size: 10px; margin: 0;">SCALE: AS SHOWN</p> <p style="font-size: 10px; margin: 0;">DESIGNED BY: DR</p> <p style="font-size: 10px; margin: 0;">DRAWN BY: DB</p> <p style="font-size: 10px; margin: 0;">CHECKED BY: DR</p>
PROJECT CLYDESDALE	
DWTR-IDP-2 PLAN AND PROFILE	
SHEET NUMBER WM02	

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:12pm File Path: C:\AACC\AACC\Projects\Kimley-Horn\060057900\_Civil\Project Files\00\_Civil\SPS\07\_S01\SSWR.dwg  
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MATCHLINE STA 05+50, SEE SHEET SS02



DATUM	
HORIZONTAL	NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 5501
VERTICAL	NAVD 88

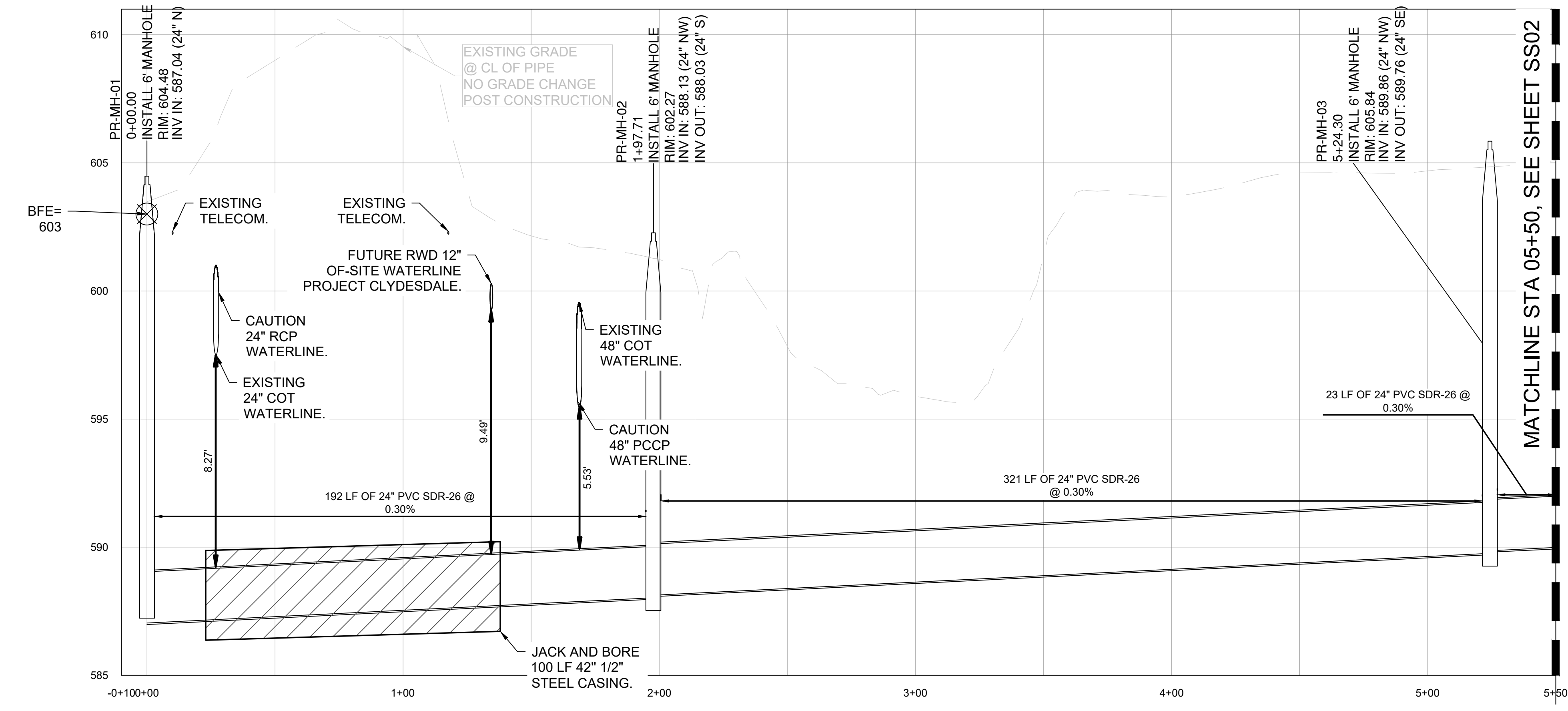
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CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	MAGNAIL
LOCATION	N: 466816.88 E: 2580975.73

**SSWR-IDP-EXTENSION PLAN**

**SSWR-IDP-EXTENSION PROFILE**



MATCHLINE STA 05+50, SEE SHEET SS02

**SANITARY SEWER NOTES:**

- ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.
- CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS.
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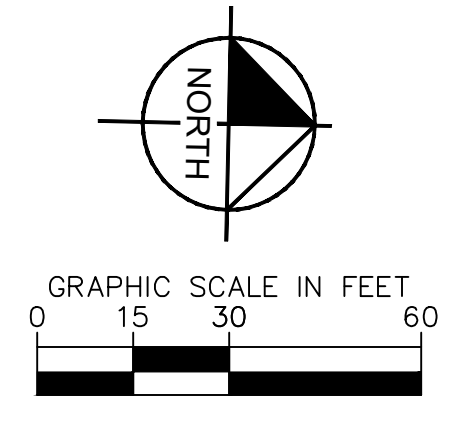
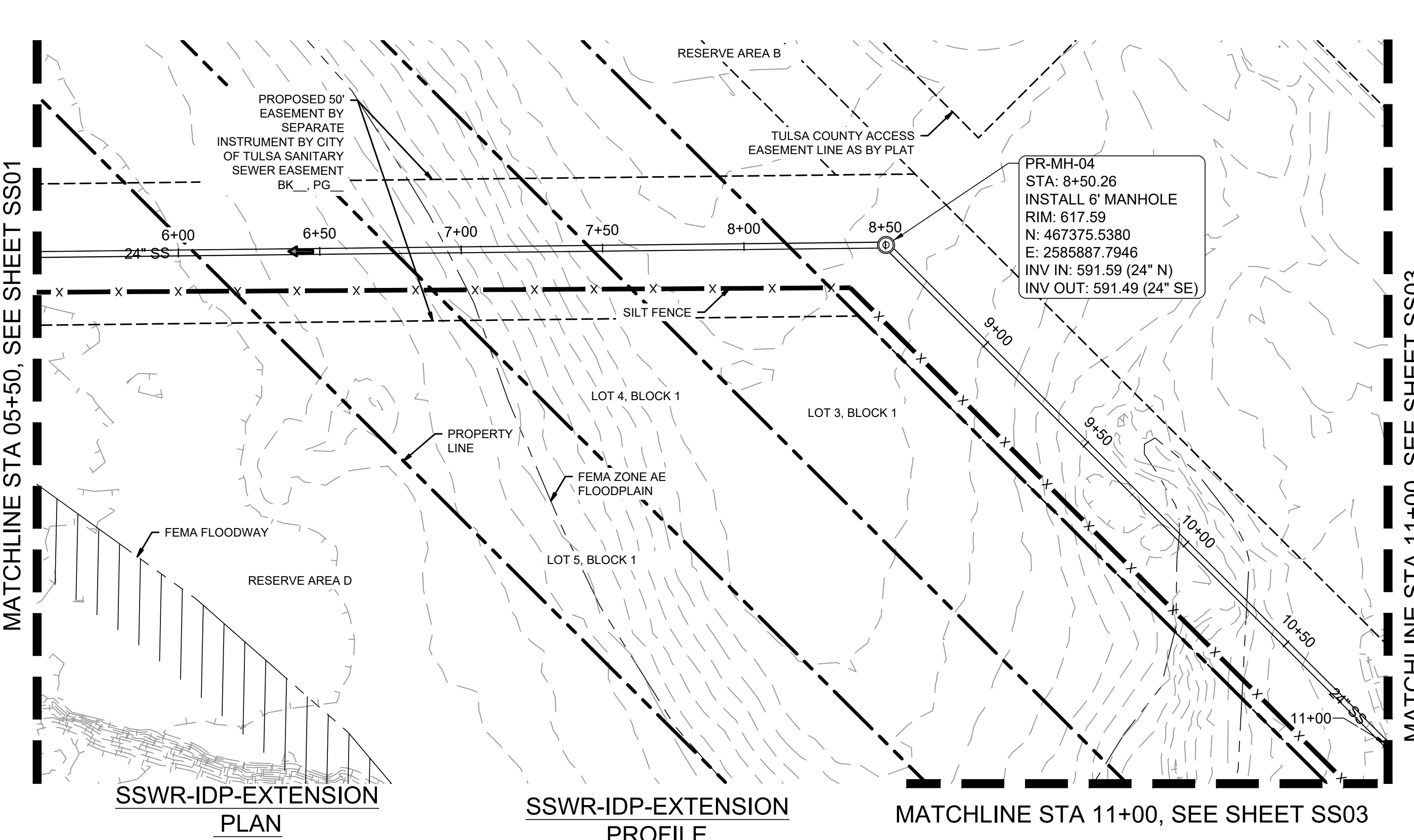


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Michael Ling, PE Date  
Infrastructure Development Manager  
City of Tulsa

<p style="font-size: small;">© 2025 KIMLEY-HORN AND ASSOCIATES, INC. 1437 SOUTH BOULDER AVE, SUITE 800 TULSA, OK 74119 PHONE: 918-580-8888 FIRM NO. 2740 EXP. JUNE 30, 2027 WWW.KIMLEY-HORN.COM</p>	<p style="font-size: x-small;">PRELIMINARY THIS DOCUMENT IS PRELIMINARY IN NATURE AND IS NOT A FINAL, SIGNED AND SEALED DOCUMENT</p> <p style="font-size: x-small;">Engineer P.E. No. _____</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">KHA PROJECT CLYDESDALE</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DATE APRIL 2026</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">SCALE: AS SHOWN</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DESIGNED BY: DR</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">DRAWN BY: DB</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">CHECKED BY: DR</p>	<p style="writing-mode: vertical-rl; transform: rotate(180deg);">PROJECT CLYDESDALE</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">SSWR-IDP-EXTENSION BEGINNING TO 05+50 PLAN &amp; PROFILE</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">SHEET NUMBER <b>SS01</b></p>

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:14pm File Path: C:\ACC\ACC000s\Kimley-Horn\060057900\_CVL\Project Files\00\_Civil\SPS\07\_07\_City of Tulsa IDP\_03\_Production-DWG\SSWR\_IDP-EXTENSION\_CVL-1A-1D - SSWR.dwg  
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VERTICAL	NAVD 88

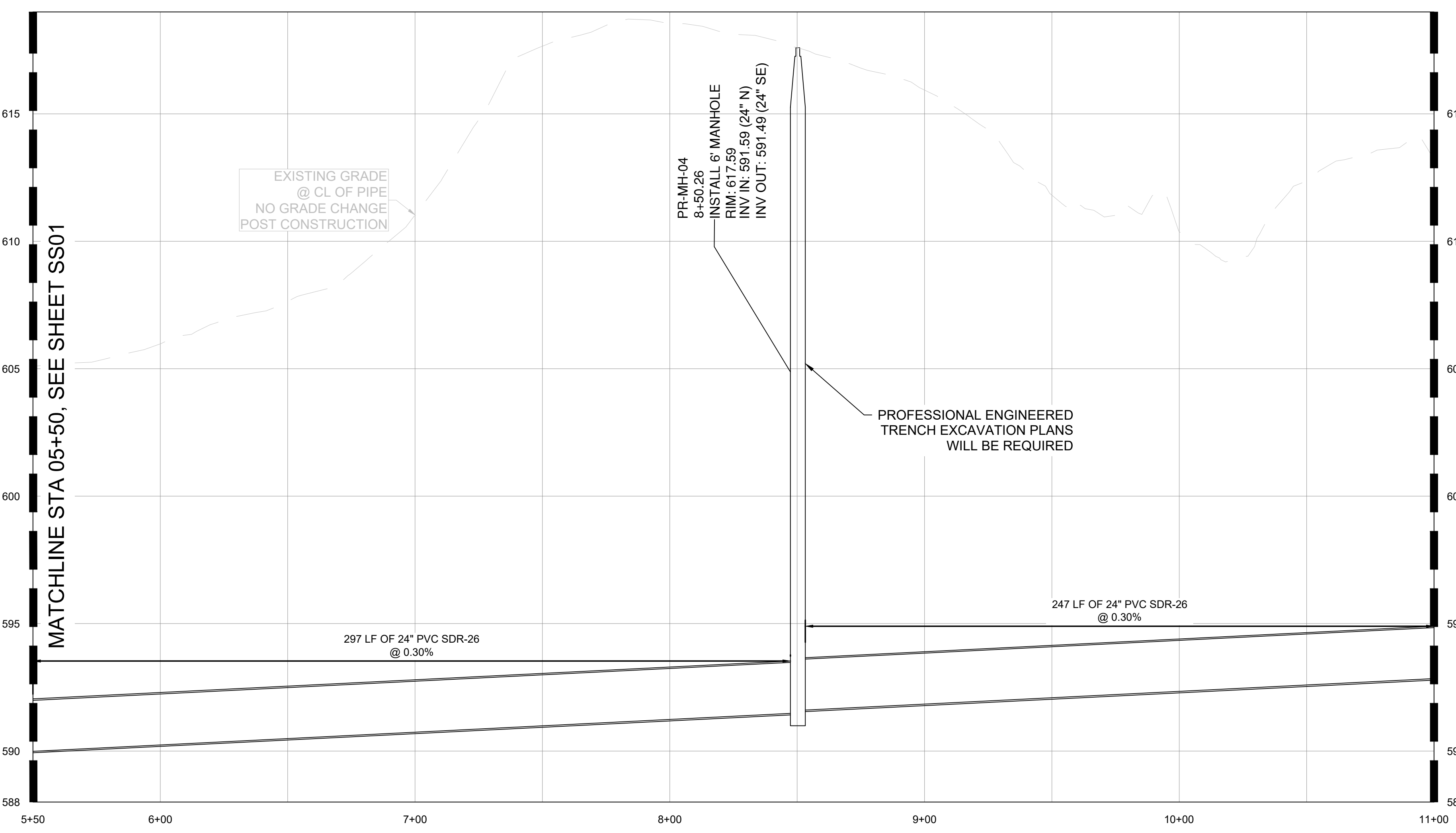
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MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53

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MATCHLINE STA 11+00, SEE SHEET SS03

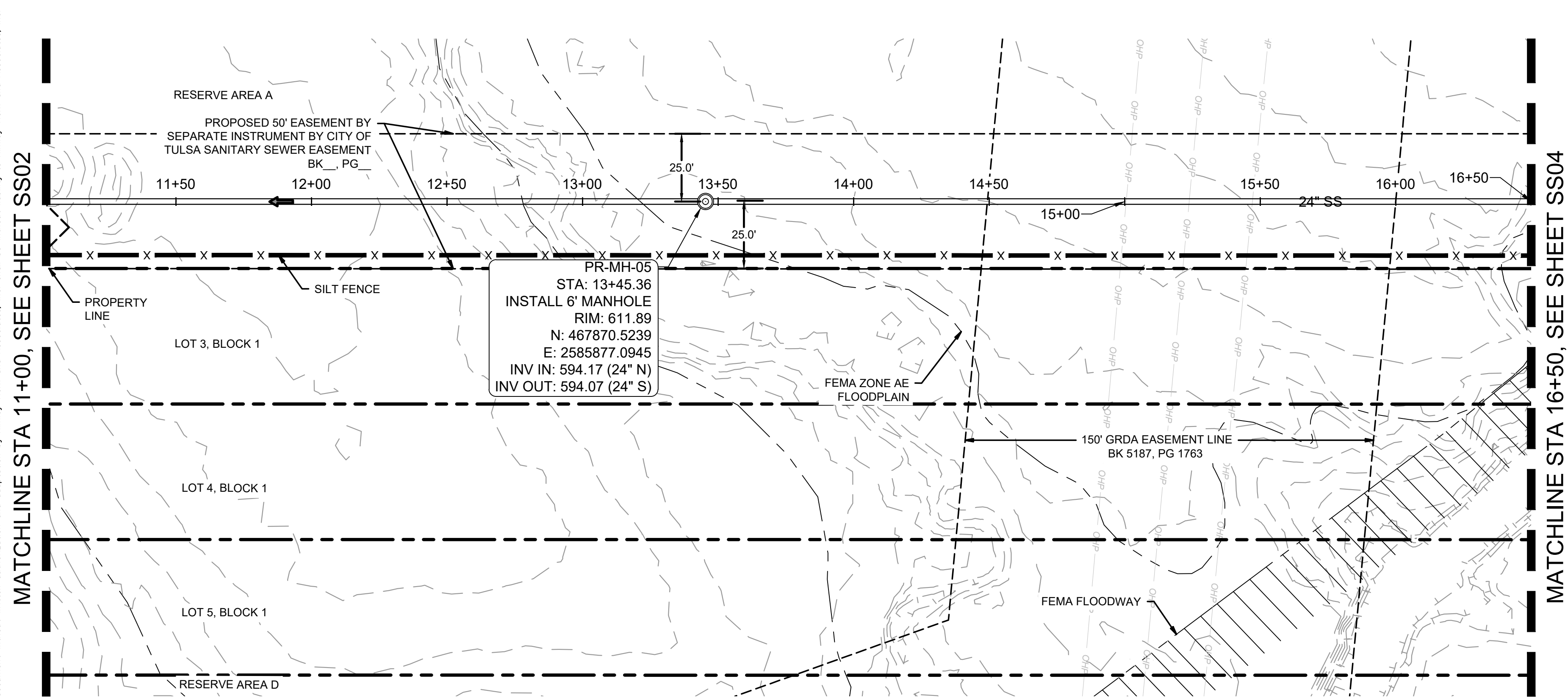


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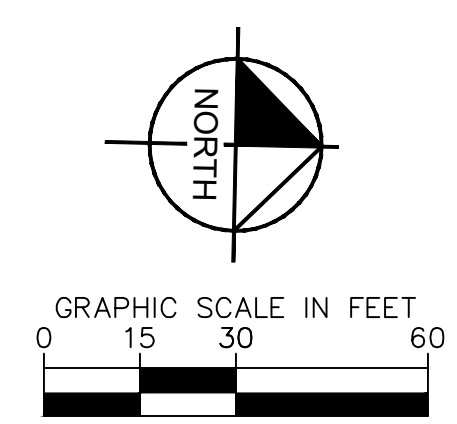
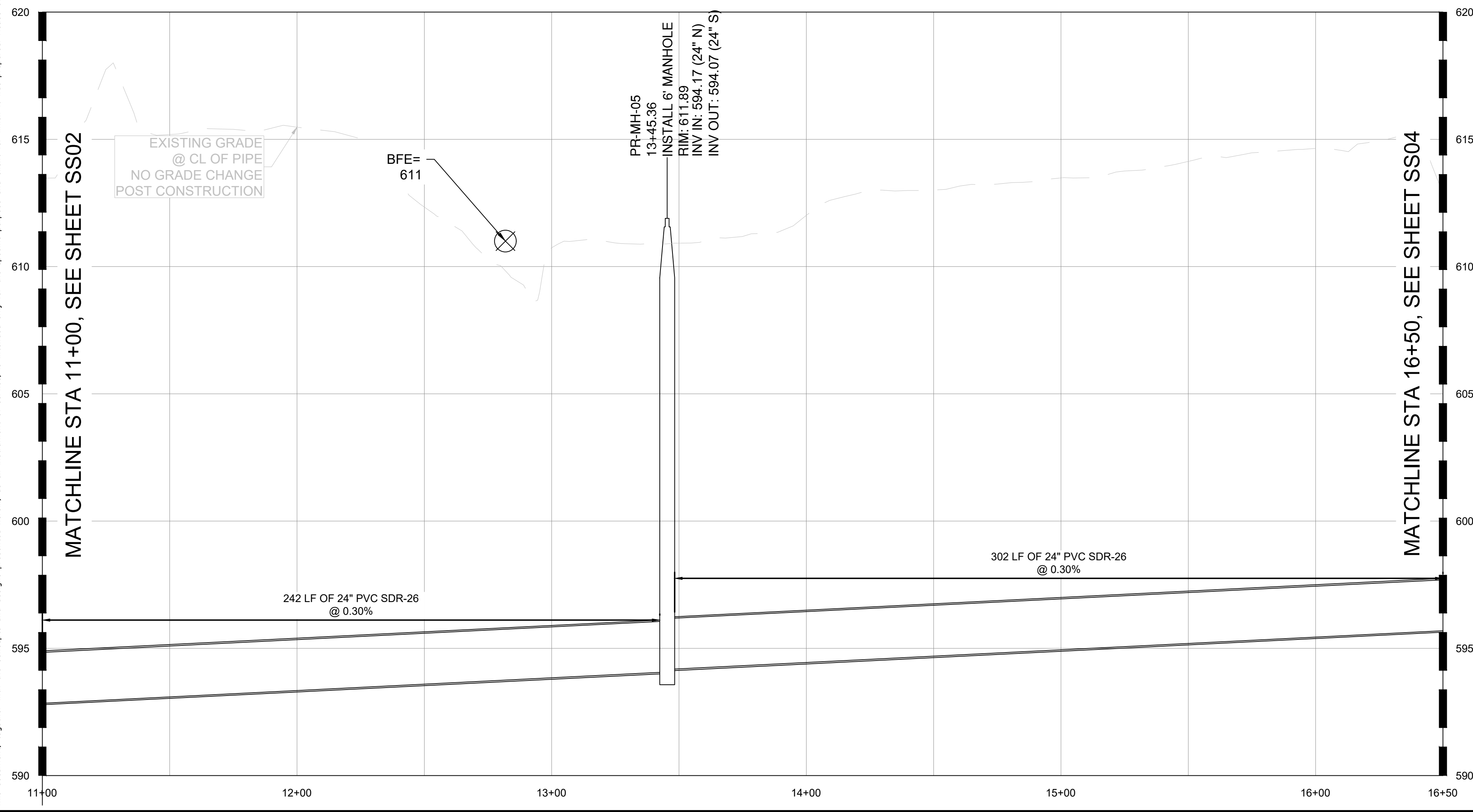
	PROJECT <b>CLYDESDALE</b>
	PROJECT <b>SSWR-IDP-EXTENSION 05+50 TO 11+00 PLAN &amp; PROFILE</b>
SHEET NUMBER <b>SS02</b>	DATE APRIL 2026
REVISIONS No. _____ DATE _____	SCALE: AS SHOWN DESIGNED BY: DR DRAWN BY: DB CHECKED BY: DR

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:17pm File Path: C:\ACC\ACC000s\Kimley-Horn\060057900\_Civil\Project Files\00\_Civil\SPS07\_07\_City of Tulsa IDP\_03\_Production-DWG\SSW-IP-EXTENSION PLAN - SS03.dwg  
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SSWR-IDP-EXTENSION PLAN

SSWR-IDP-EXTENSION PROFILE



DATUM	
HORIZONTAL	
NAD 83 OKLAHOMA STATE PLANE	
COORDINATE SYSTEM NORTH ZONE 3501	
VERTICAL	
NAVD 88	

CONTROL POINT #1	
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APPROVED FOR IDP PERMIT ONLY  
 Michael Ling, PE Date  
 Infrastructure Development Manager  
 City of Tulsa

PROJECT  
CLYDESDALE

DATE  
APRIL 2026

SCALE: AS SHOWN

DESIGNED BY: DR

DRAWN BY: DB

CHECKED BY: DR

SSWR-IDP-EXTENSION  
20+50 TO 26+00  
PLAN & PROFILE

SHEET NUMBER  
SS03

NO.

REVISIONS

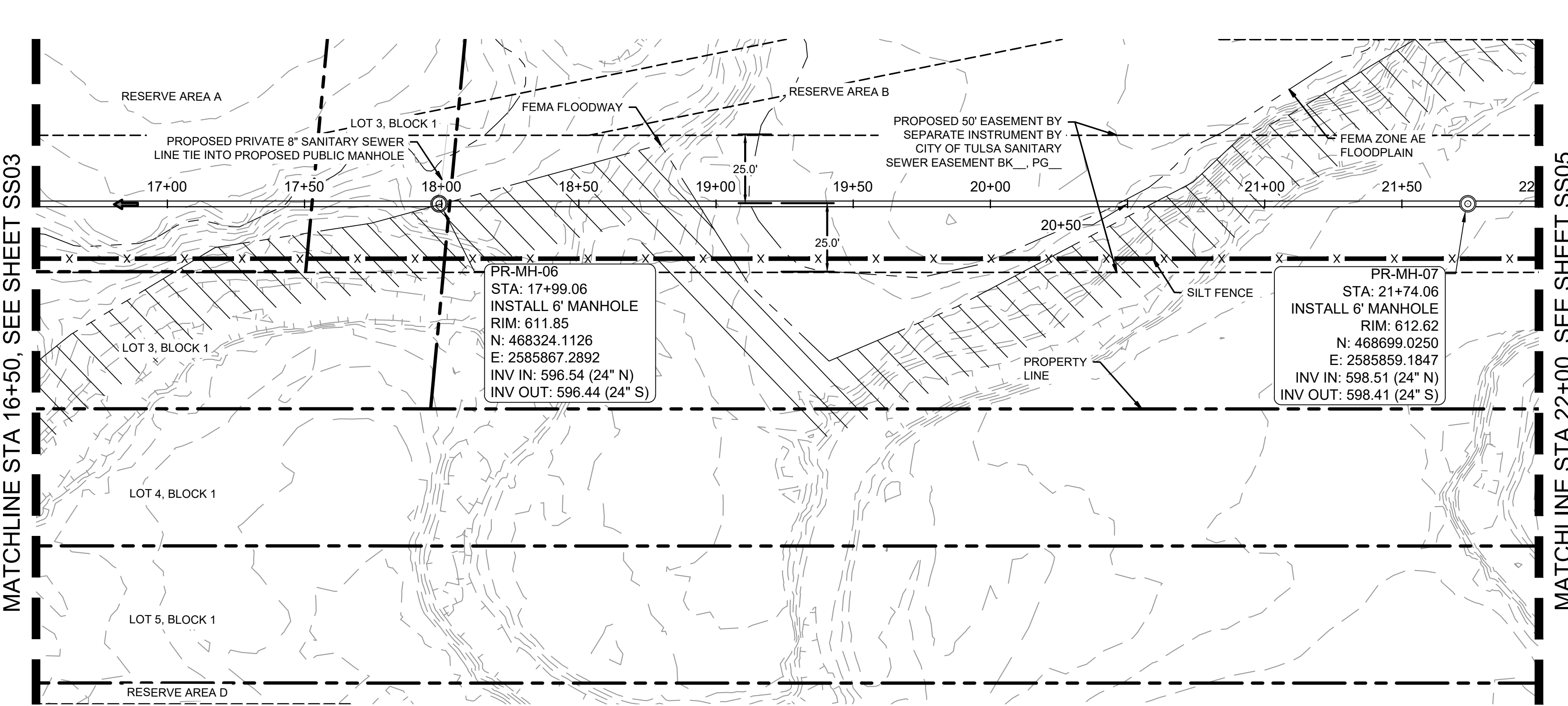
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BY

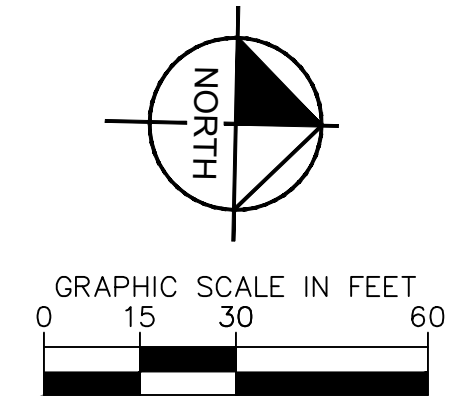
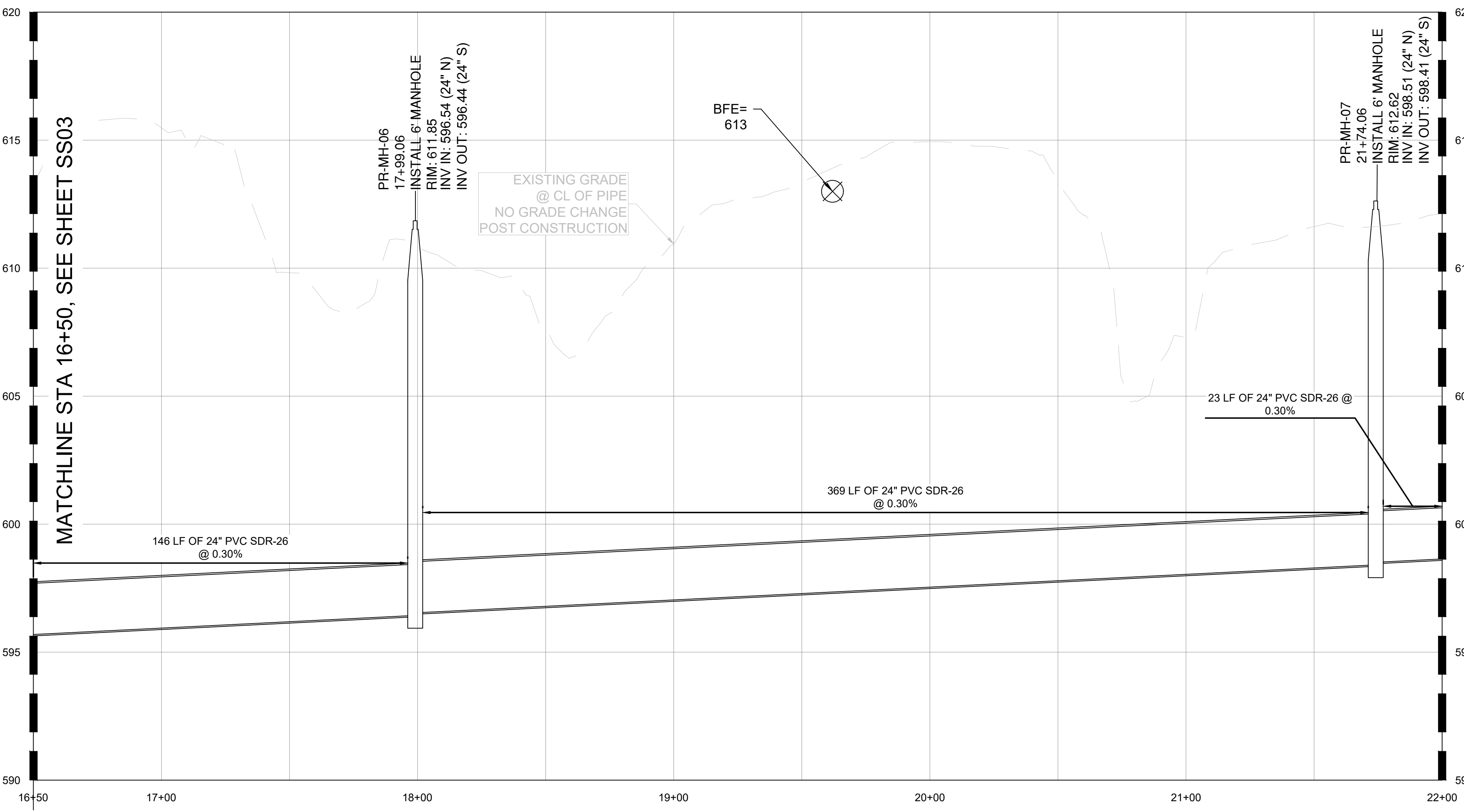
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 Engineer  
 P.E. No.

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:19pm File Path: C:\ACC\ACC0005\Kimley-Horn\060057900\_CVL\Project Files\00\_Civil\SPS\07\_07\_City of Tulsa IDP\_03\_Production-DWG\SSW-IP-1A-1D - SSWR.dwg  
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**SSWR-IDP-EXTENSION  
PLAN**  
**SSWR-IDP-EXTENSION  
PROFILE**



DATUM	
HORIZONTAL NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501	
VERTICAL NAVD 88	
CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53
CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466816.88 E: 2580975.73

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APPROVED FOR IDP PERMIT ONLY

Michael Ling, PE Date  
Infrastructure Development Manager  
City of Tulsa

**Kimley-Horn**

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REVISIONS

No.	DATE	BY

KHA PROJECT  
CLYDESDALE

DATE  
APRIL 2026

SCALE: AS SHOWN

DESIGNED BY: DR

DRAWN BY: DB

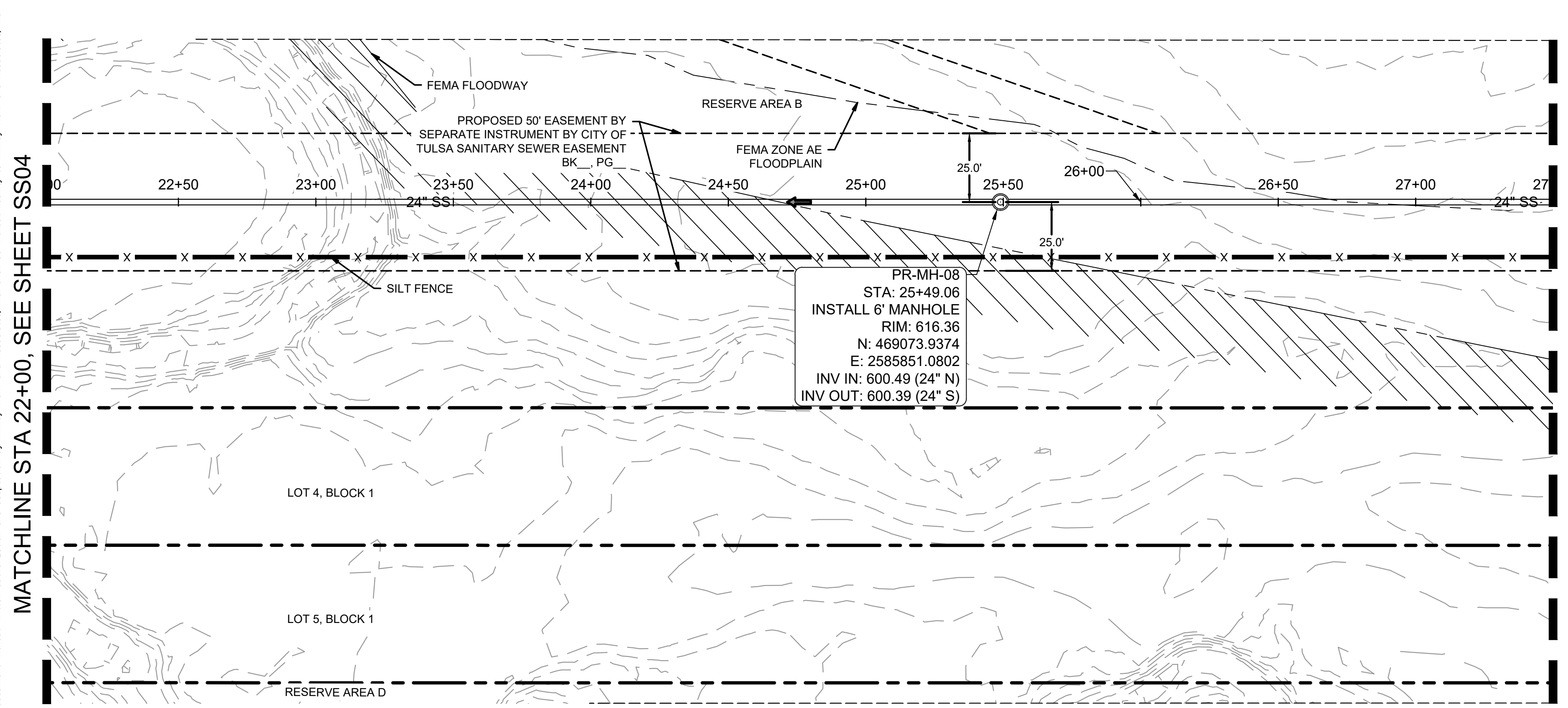
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PROJECT  
CLYDESDALE

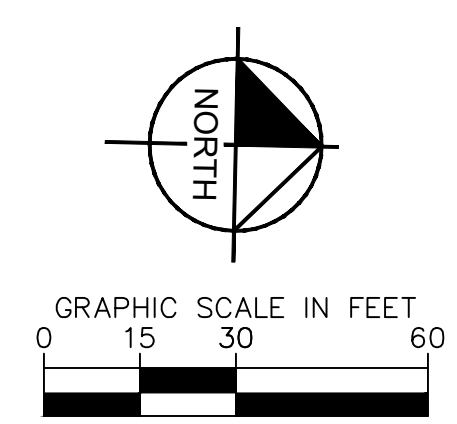
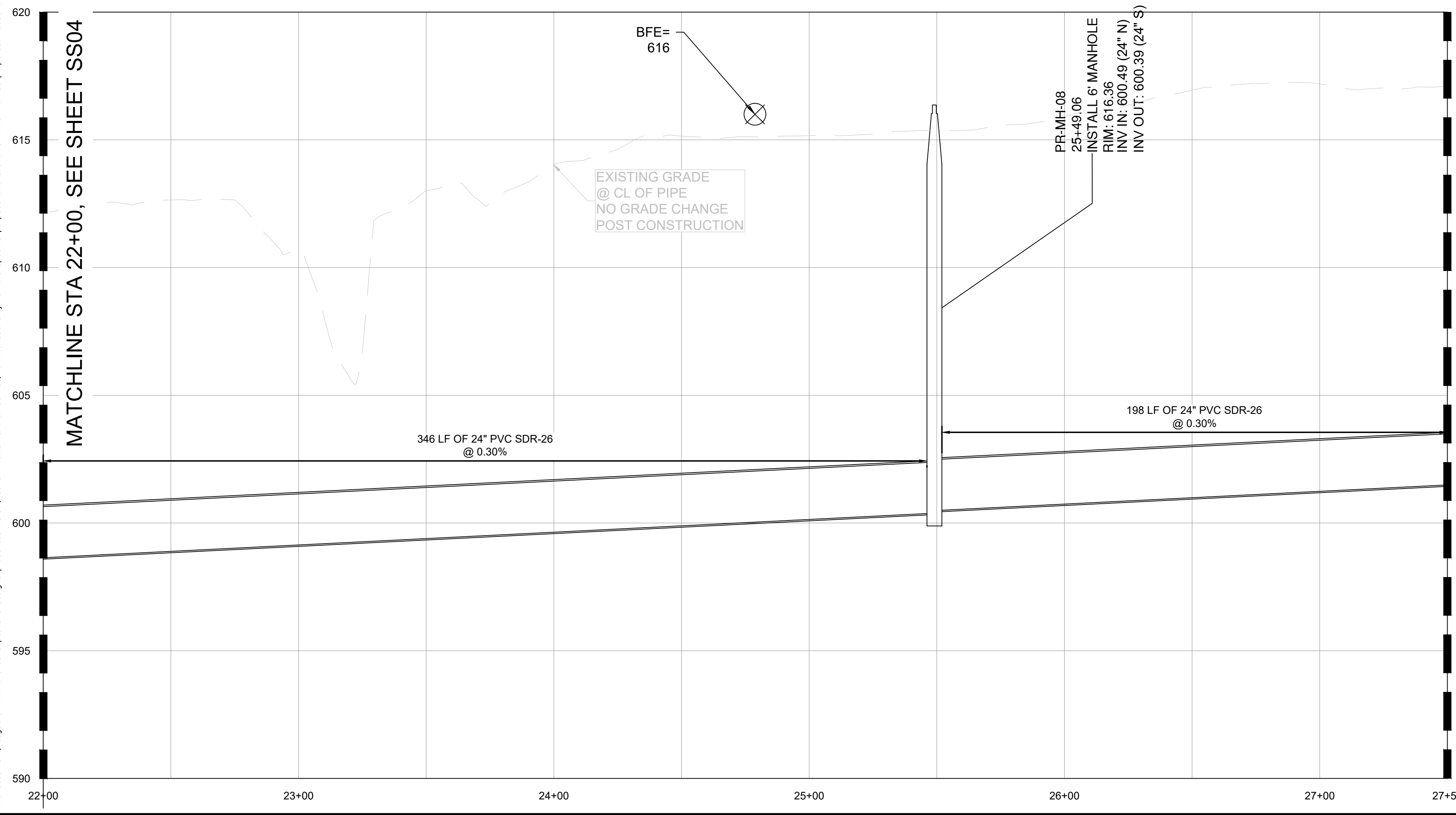
SSWR-IDP-EXTENSION  
26+00 TO 31+50  
PLAN & PROFILE

SHEET NUMBER  
**SS04**

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**SSWR-IDP-EXTENSION PROFILE**



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 Engineer: [blank]  
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KHA PROJECT	CLYDESDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

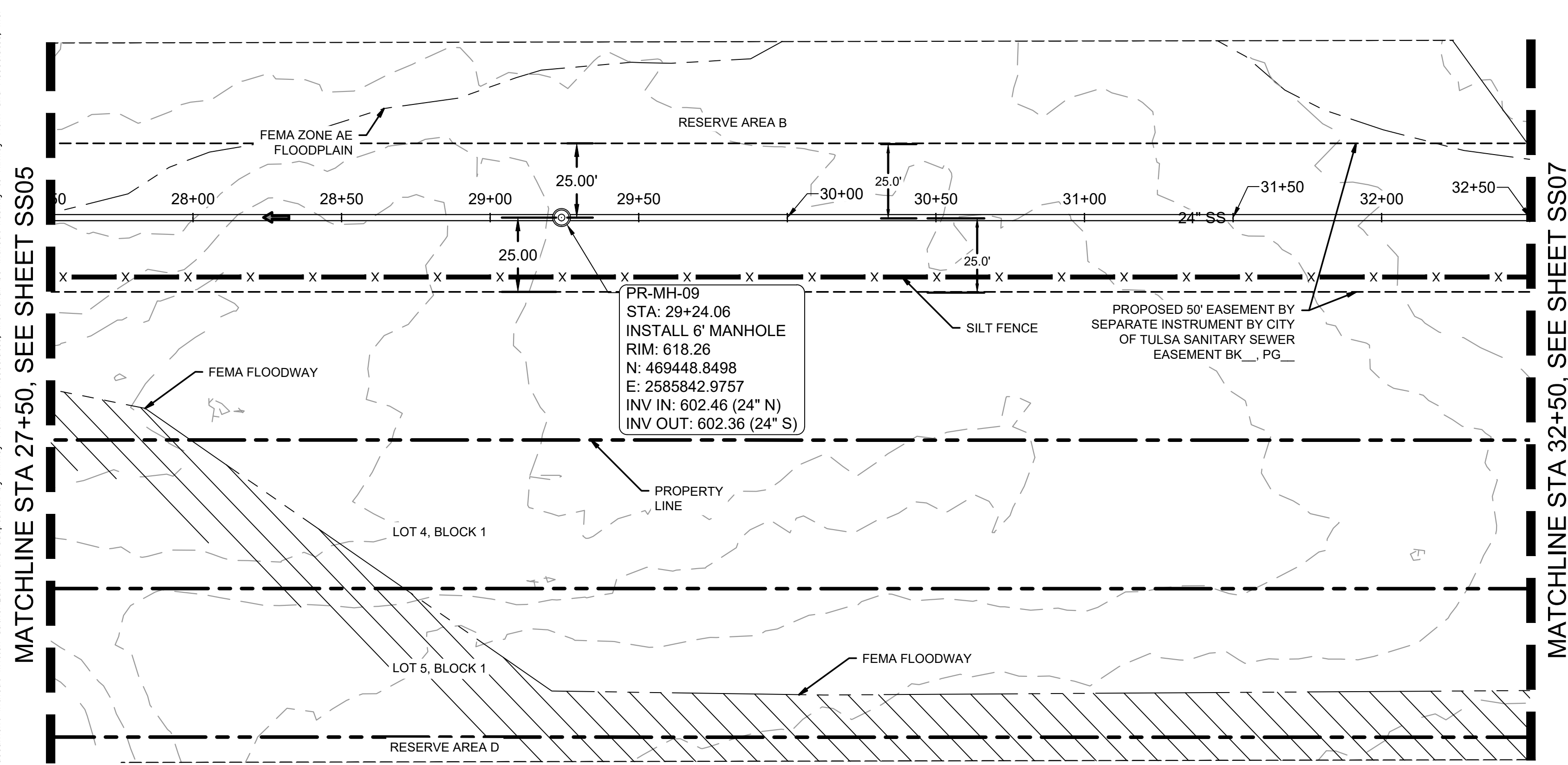
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**SSWR-IDP-EXTENSION**  
 31+50 TO 37+00  
 PLAN & PROFILE

SHEET NUMBER  
**SS05**

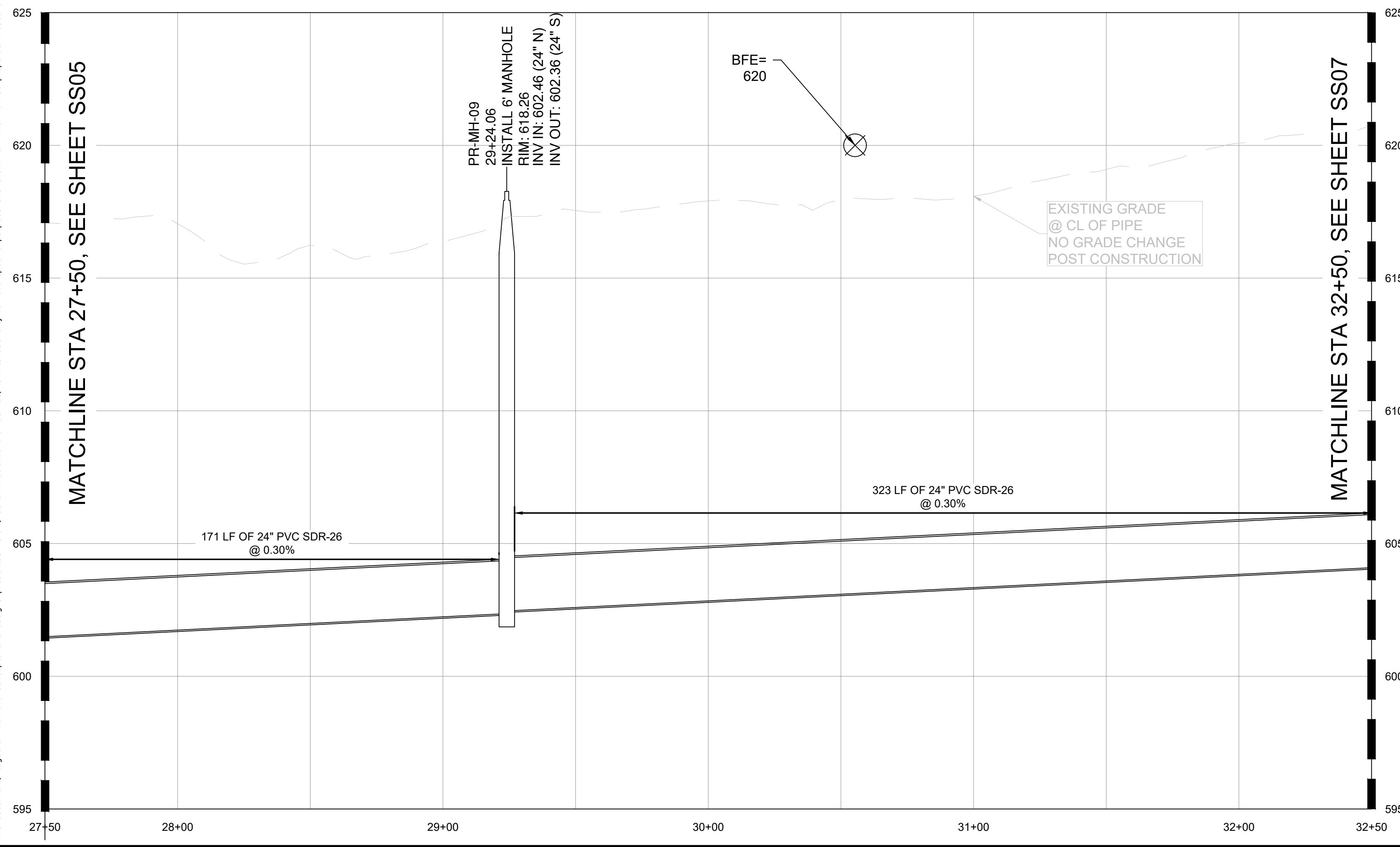
No.	REVISIONS	DATE	BY

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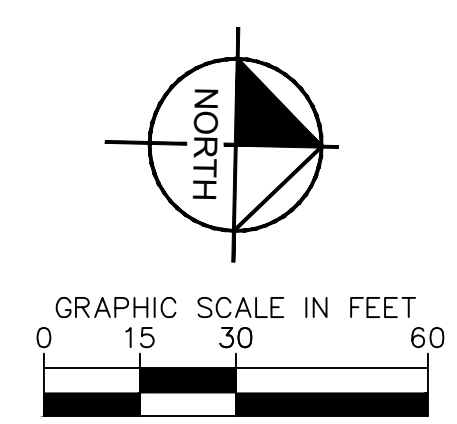
SSWR-IDP-EXTENSION  
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- THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- IF ANY ACTIVE EXISTING SERVICE LINES ARE CUT OFF BY REMOVAL OF SANITARY SEWER LINE AND MANHOLE, THEN THEY MUST BE RECONNECTED TO THE MAIN FOR SERVICE AT THE DEVELOPER'S EXPENSE.
- VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.
- THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING, WHERE POSSIBLE.
- ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 10-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ODEQ CHAPTER 626.
- ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND ODEQ STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF OKLAHOMA, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
- CONTRACT SHALL SUBMIT PROFESSIONAL ENGINEERED TRENCH EXCAVATION PLAN FOR ALL EXCAVATIONS IN EXCESS OF 20 FEET.
- THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL EROSION CONTROL DEVICES DAMAGED DUE TO CONSTRUCTION.
- CONTRACTOR WILL BE REQUIRED TO VACUUM TEST ALL MANHOLES ACCORDING TO CURRENT CITY OF TULSA STANDARDS AND SPECIFICATIONS. EXISTING MANHOLES SHALL BE VACUUM TESTED PRIOR TO ANY MODIFICATIONS AND AFTER WORK IS COMPLETE.
- SEWERS AND MANHOLES TO BE ABANDONED SHALL BE SECURELY BLOCKED AT ANY POINTS OF INTAKE OR DISCHARGE WITH A BULKHEAD OR PREFORMED PULL AND SHALL BE COMPLETELY FILLED WITH CLEAN SAND, CELLULAR CONCRETE OR FLOWABLE FILL.
- FRAMES AND COVERS FROM ANY STRUCTURES SCHEDULED FOR ABANDONMENT SHALL BE RETURNED TO THE CITY SEWER AND OPERATIONS MAINTENANCE AT 9319 E 42ND STREET NORTH BETWEEN 7:30 AM AND 3:00 PM MONDAY THRU FRIDAY. AT A MINIMUM ALL STRUCTURES SHALL BE COMPLETELY REMOVED TO A POINT THREE (3) FEET BELOW THE FINAL GRADE, OR THE DEPTH NOTED ON THE DRAWINGS. SAND OR FLOWABLE FILL SHALL BE USED TO FILL THE STRUCTURE.
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- SERVICE TEES SHALL BE CONSTRUCTED AS PART OF IDP. SERVICE CONNECTION TO BUILDINGS SHALL BE DONE SEPARATELY AS A SEWER TAP PERMIT.
- BACKFLOW PREVENTER MUST BE INSTALLED IF BUILDING SITE IS BELOW THE UPSTREAM/DOWNSTREAM MANHOLE RIM+ 1'
- CONCRETE MANHOLES, ASSOCIATED WITH MAINS 15" ID AND LARGER, TO BE DESIGNED WITH INTERIOR EPOXY COATING OR FIBERGLASS WITH NO COATING.
- MANHOLE LID SHOULD BE 3200 SERIES COMPOSITE UTILITY ACCESS COVER WITH QUARTER TURN PADDLE LOCKS MANUFACTURED BY EAST JORDAN PER CITY STANDARDS FOR MANHOLES IN FLOODPLAIN.
- ALL MANHOLES MUST HAVE 30" LIDS AND COVERS AND NO STEPS.
- WATER AND SANITARY SEWER SEPARATION (OUTSIDE TO OUTSIDE OF PIPES) TO BE MINIMUM TWO (2) FEET VERTICAL & TEN (10) FEET HORIZONTAL PER ODEQ REGULATIONS. WHEN WATER AND SEWER SEPARATION CANNOT BE MAINTAINED, THE SANITARY SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE. SANITARY SEWER MUST BE INSTALLED AND TESTED FOR PRESSURE AND LEAKAGE IN ACCORDANCE WITH COT STANDARD SPECIFICATION PART 203 AND ODEQ STANDARD 252-626-19-2(e).
- RIPRAP DESIGN AND INSTALLATION SHALL COMPLY WITH THE MORE STRINGENT OF THE FOLLOWING STANDARDS: (1) DOT STANDARD SPECIFICATIONS ADOPTED BY THE CITY OF TULSA (2) CURRENT CITY OF TULSA STORMWATER MANAGEMENT CRITERIA MANUAL



DATUM	
HORIZONTAL	NAD 83 OKLAHOMA STATE PLANE
COORDINATE SYSTEM	NORTH ZONE 3501
VERTICAL	NAVD 88

CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53

CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466816.88 E: 2580975.73

No.	REVISIONS	DATE	BY

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 Engineer: \_\_\_\_\_  
 P.E. No. \_\_\_\_\_

KHA PROJECT	CLYDESDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

**PROJECT**  
CLYDESDALE

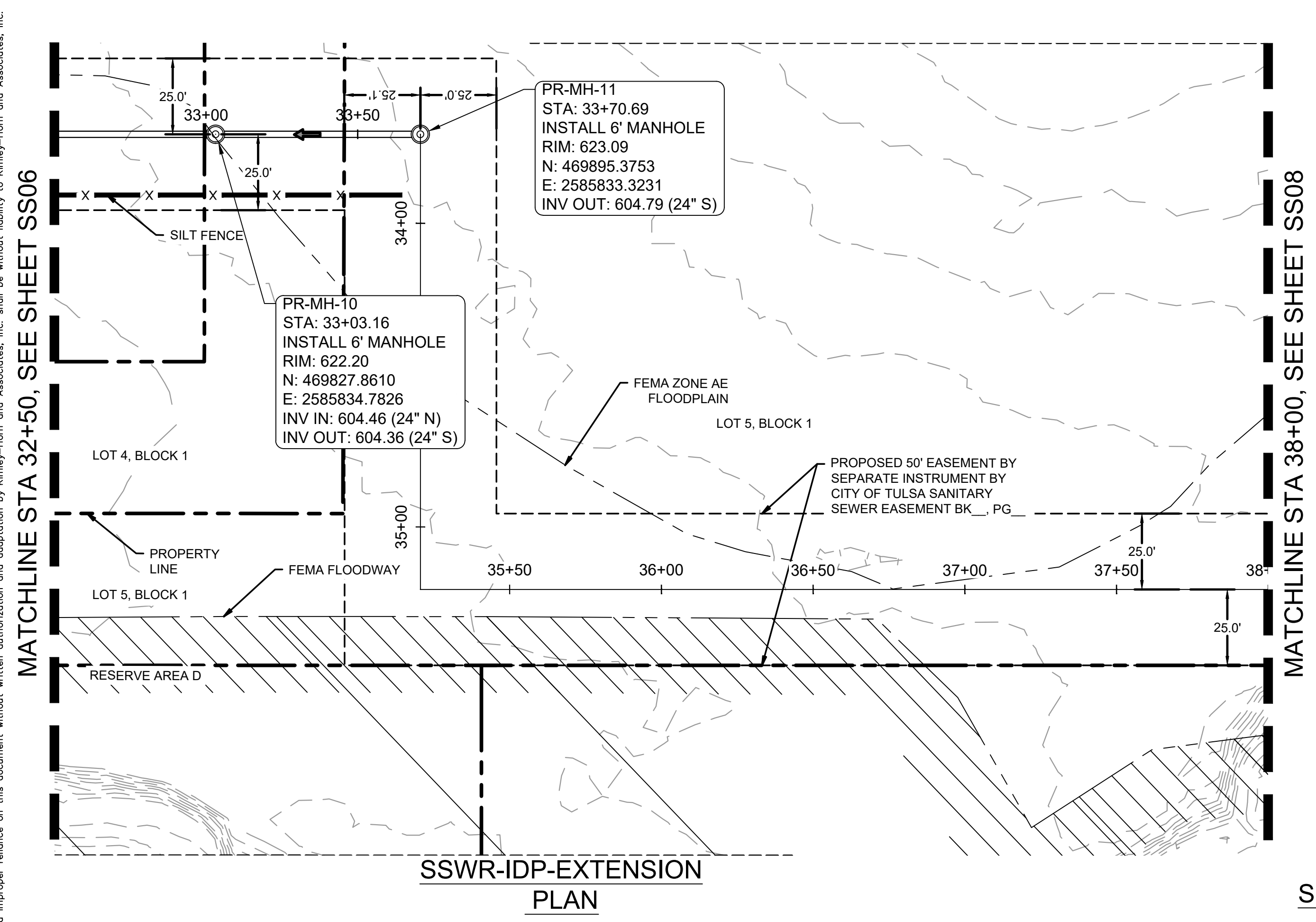
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37+00 TO 42+50  
**PLAN & PROFILE**

SHEET NUMBER  
**SS06**

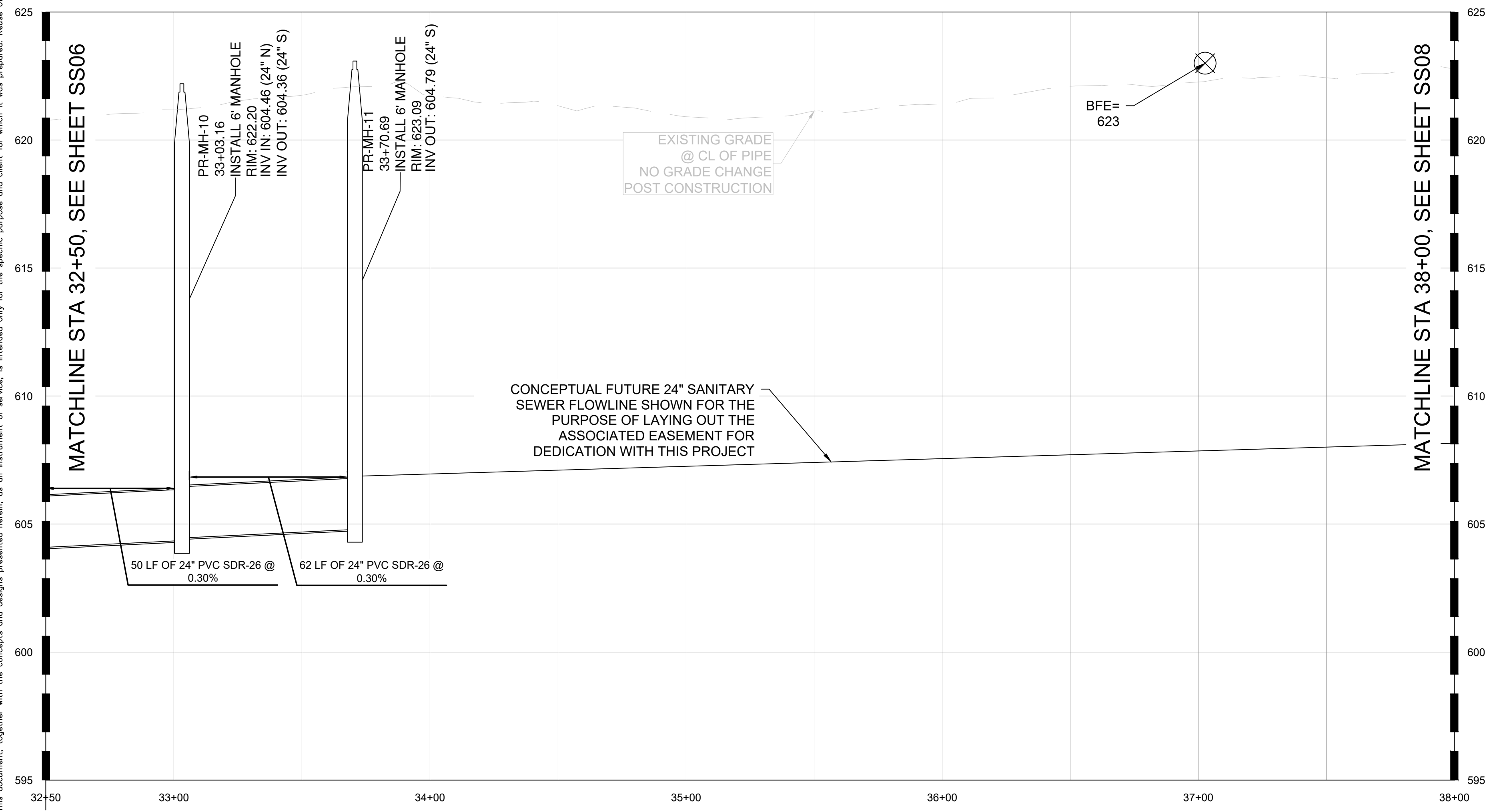
APPROVED FOR IDP PERMIT ONLY

Michael Ling, PE Date \_\_\_\_\_  
 Infrastructure Development Manager  
 City of Tulsa

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:26pm File Path: C:\ACC\ACCDOCS\Kimley-Horn\060057900\_CVL\Project Files\00\_Civil\SPS\07\_City of Tulsa IDP\03\_Production\DWGS\CYL-1A-IDP - SSWR.dwg  
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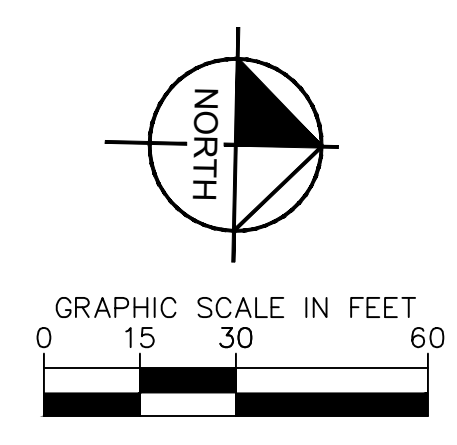


SSWR-IDP-EXTENSION  
PROFILE



**SANITARY SEWER NOTES:**

- ALL WATER AND WASTEWATER MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY THE SIZE, CONDITION, HORIZONTAL, AND VERTICAL LOCATIONS OF ALL EXISTING WATER AND WASTEWATER FACILITIES THAT ARE TO BE CONNECTED TO, PRIOR TO START OF CONSTRUCTION OF ANY WATER OR WASTEWATER CONSTRUCTION, AND SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS DISCOVERED.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.
- CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS.
- ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
- CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, ODEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES.
- ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT.
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DATUM	
HORIZONTAL NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501	
VERTICAL NAVD 88	
CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53
CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466816.88 E: 2580975.73

No.	REVISIONS	DATE	BY

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**Kimley-Horn**  
Engineer  
P.E. No. \_\_\_\_\_

KHA PROJECT	CLYDESDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

**PROJECT**  
CLYDESDALE

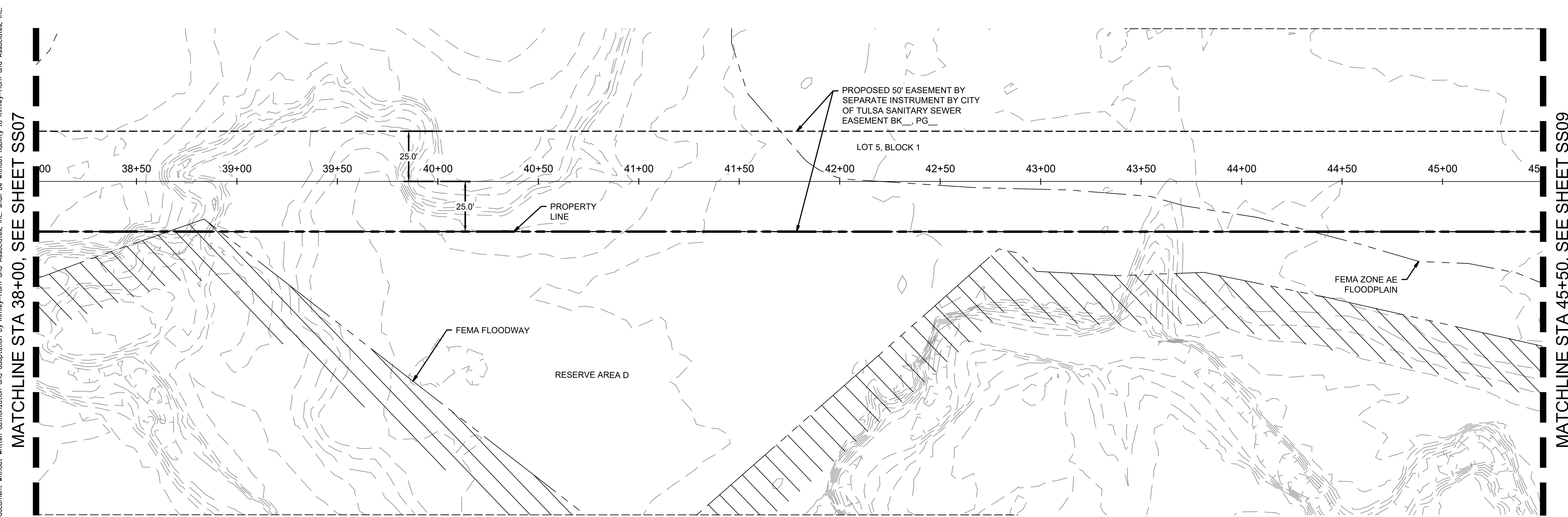
**SSWR-IDP-EXTENSION**  
42+50 TO 48+00  
PLAN & PROFILE

SHEET NUMBER  
**SS07**

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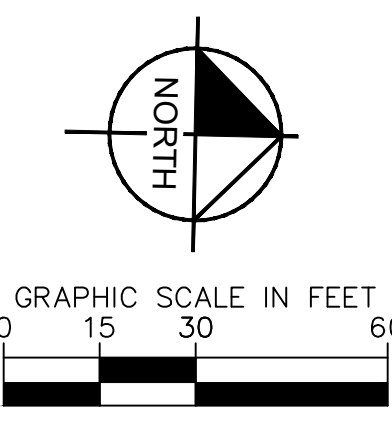
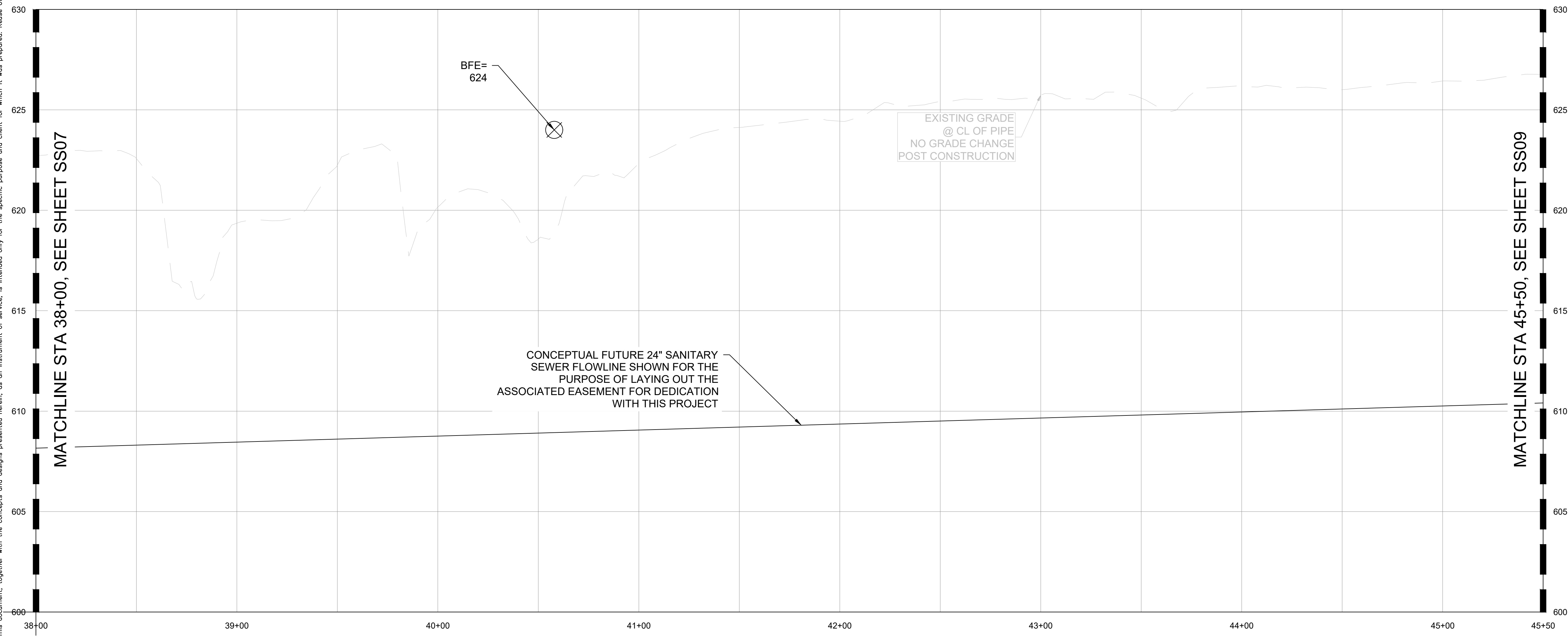
Michael Ling, PE Date  
Infrastructure Development Manager  
City of Tulsa

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:29pm File Path: C:\ACC\ACCDocs\Kimley-Horn\060057900\_Cyl\Project Files\00\_Civil\SPS\07\_Cyl\Project Files\00\_Civil\SSWR-IDP-EXTENSION-DWGS\CYL-1A-IDP - SSWR.dwg  
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SSWR-IDP-EXTENSION  
PLAN

SSWR-IDP-EXTENSION  
PROFILE



DATUM	
HORIZONTAL	NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501
VERTICAL	NAVD 88

CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53

CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466816.88 E: 2580975.73

NO.	REVISIONS	DATE	BY

**Kimley-Horn**

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**Kimley-Horn**

Engineer  
 P.E. No. \_\_\_\_\_

KHA PROJECT	CLYDESDALE
DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY	DR
DRAWN BY	DB
CHECKED BY	DR

**PROJECT**  
CLYDESDALE

**SSWR-IDP-EXTENSION**  
48+00 TO 55+50  
PLAN & PROFILE

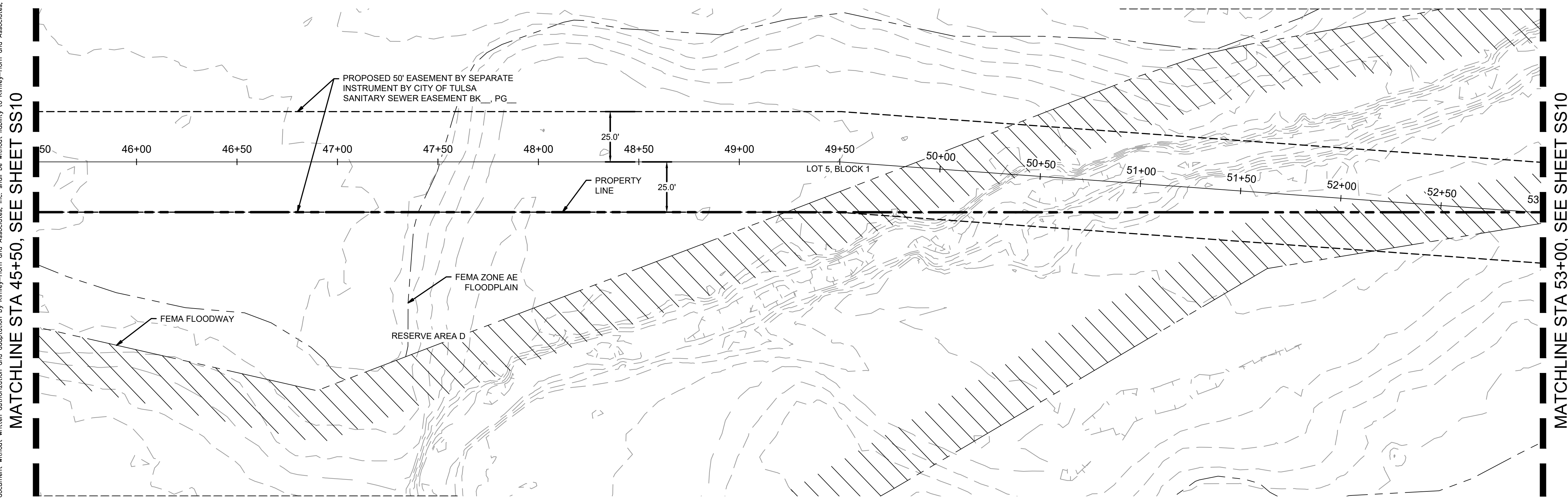
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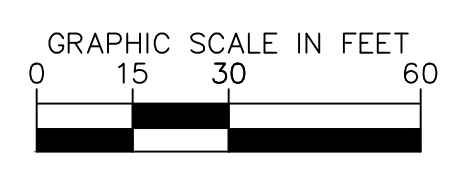
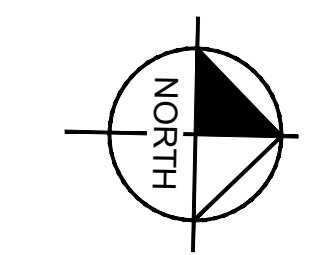
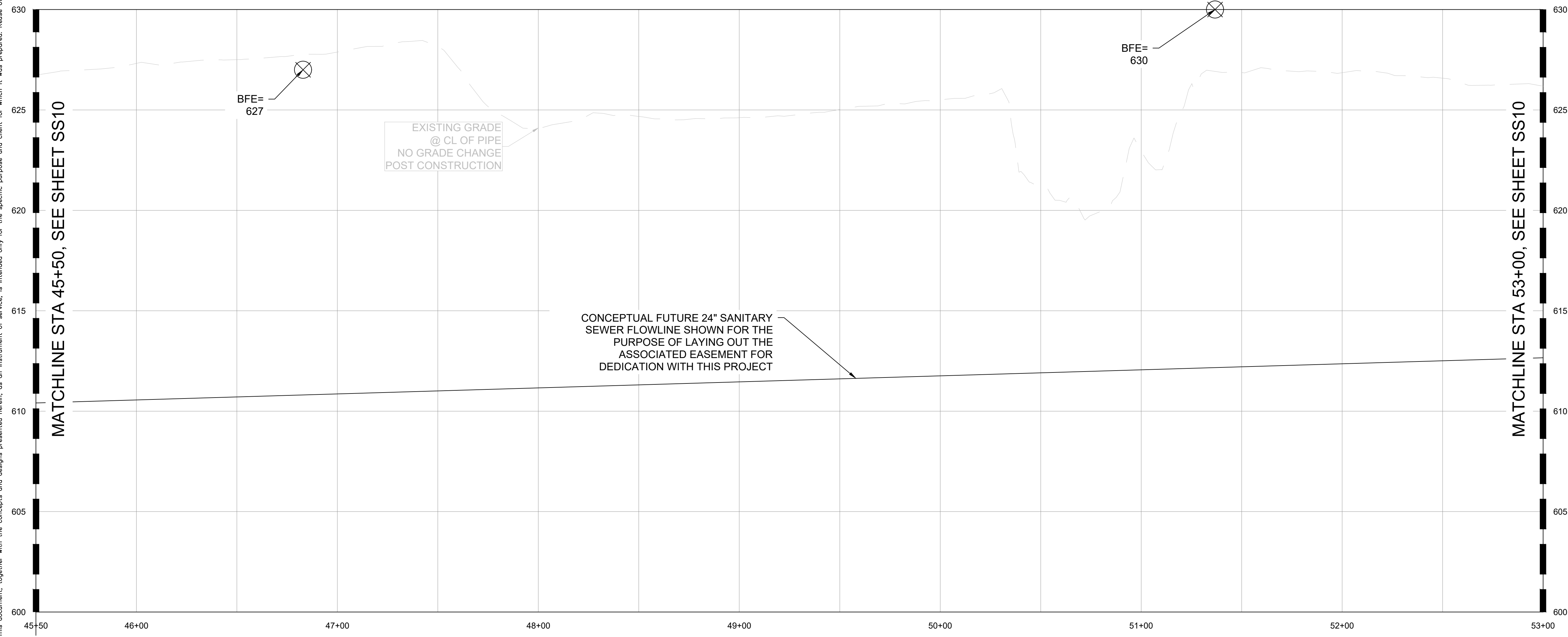
Michael Ling, PE Date \_\_\_\_\_  
 Infrastructure Development Manager  
 City of Tulsa

Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:33pm File Path: C:\AGC\ACCDocs\Kimley-Horn\060057900\_Cyl\Project Files\00\_Civil\SPS\07\_City of Tulsa IDP\_03\_Production-DWG\SSWR-IDP - SSWR.dwg  
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PLAN

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PROFILE



DATUM	
HORIZONTAL	NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501
VERTICAL	NAVD 88

CONTROL POINT #1	
ELEVATION	683.38 (NAVD 1988)
MONUMENT	
LOCATION	N: 466707.64 E: 2581682.53

CONTROL POINT #2	
ELEVATION	617.62 (NAVD 1988)
MONUMENT	
LOCATION	N: 466616.88 E: 2580975.73

REVISIONS	
No.	DATE

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DATE	APRIL 2026
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CHECKED BY	DR

PROJECT  
CLYDESDALE

SSWR-IDP-EXTENSION  
55+50 TO 63+00  
PLAN & PROFILE

SHEET NUMBER  
**SS09**



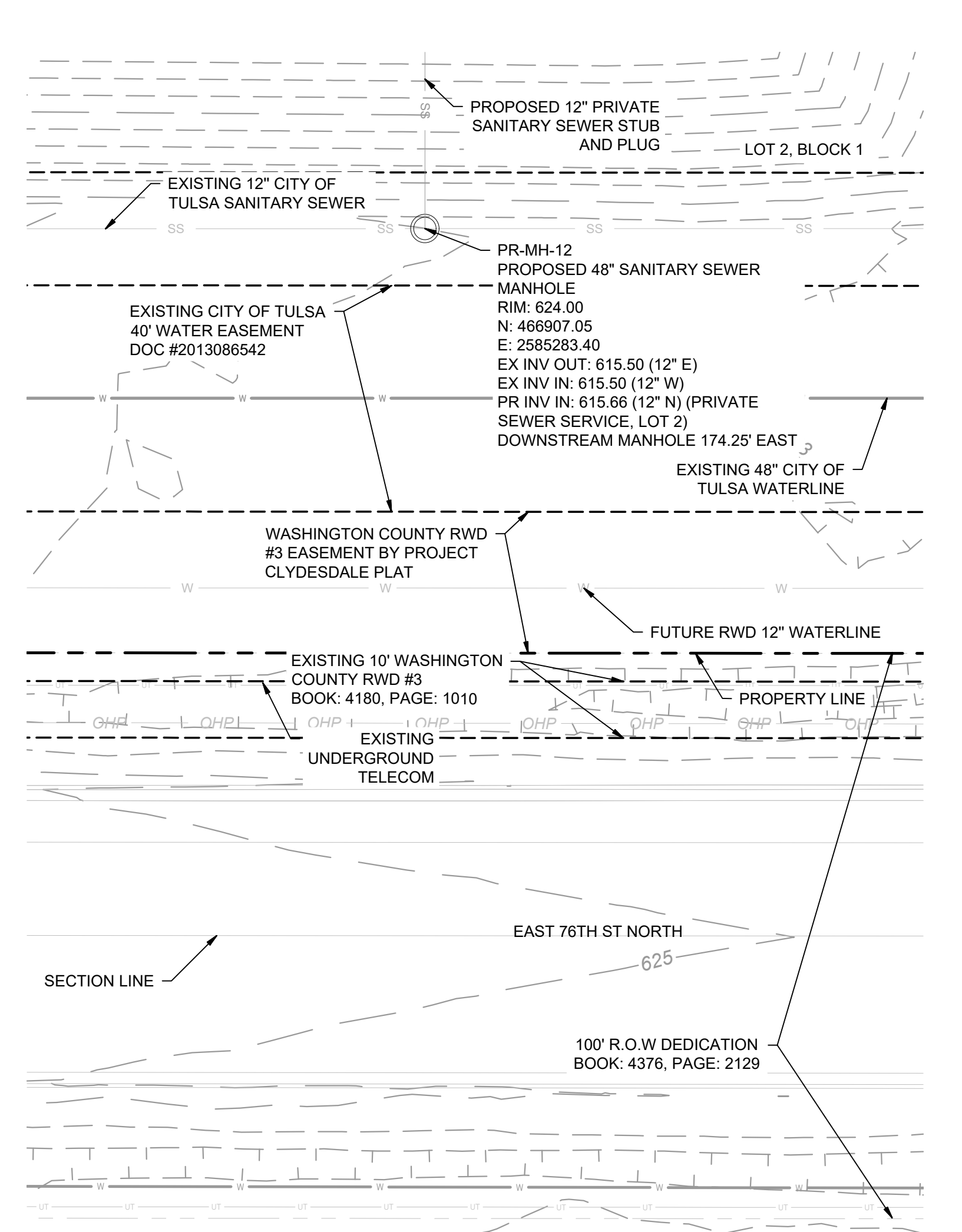
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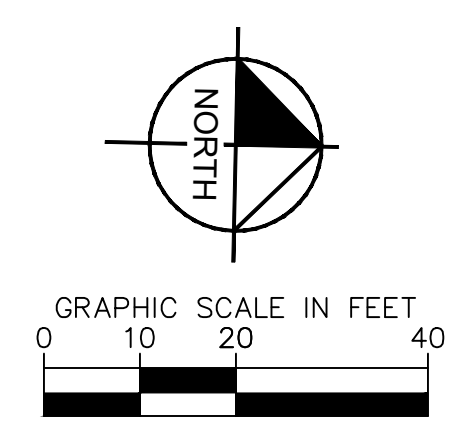
Michael Ling, PE Date  
 Infrastructure Development Manager  
 City of Tulsa



Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:36pm File Path: C:\ACC\ACCDOCS\Kimley-Horn\060057900\_CVL\Project Files\00\_Civil\SPS\07\_City of Tulsa IDP\03\_Production-DWG\CVL-1A-IDP - SSWR.dwg  
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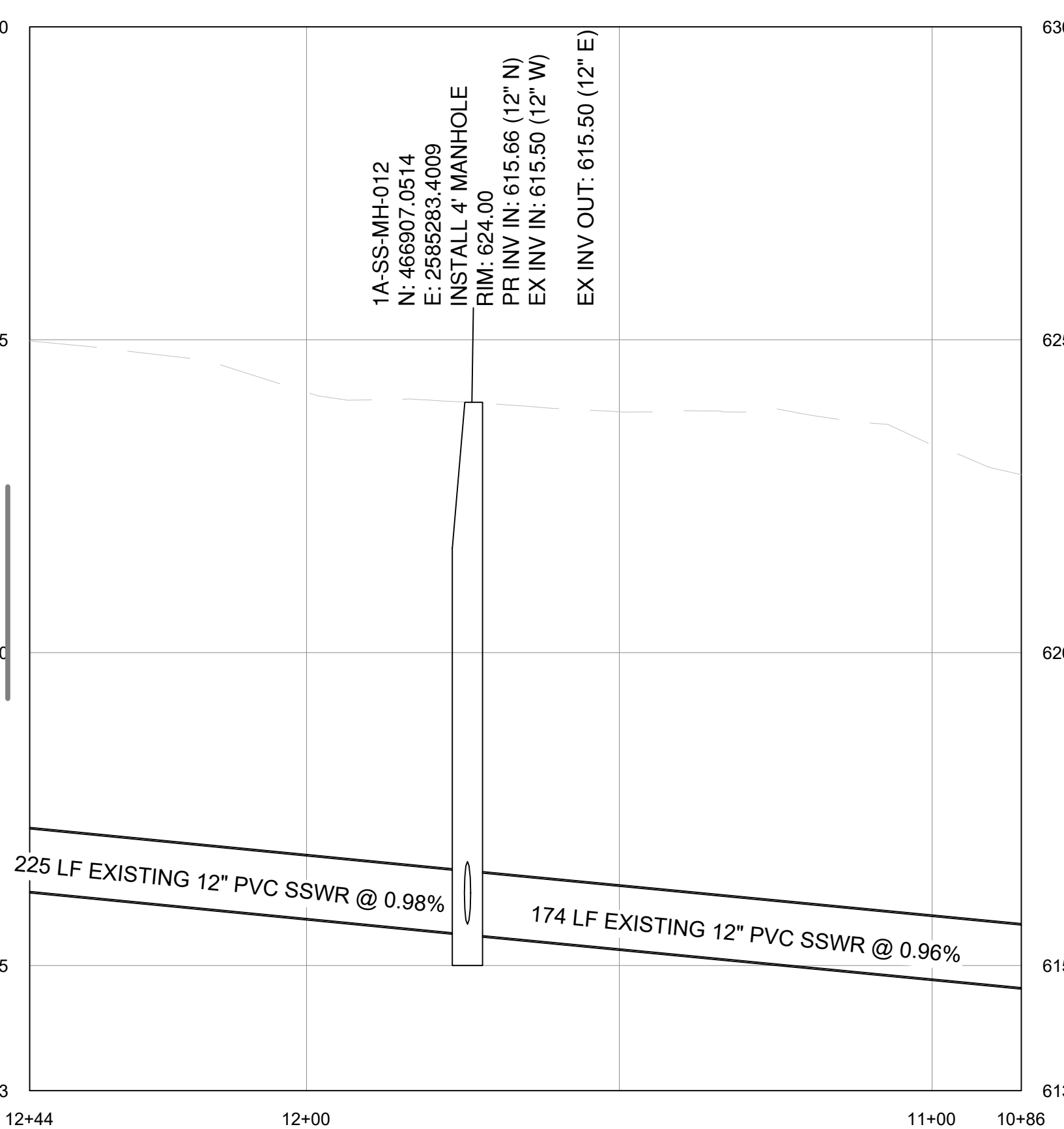
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HORIZONTAL NAD 83 OKLAHOMA STATE PLANE COORDINATE SYSTEM NORTH ZONE 3501	
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### SSWR-IDP-EXTENSION PROFILE

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- CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITY CROSSINGS PRIOR TO THE INSTALLATION OF ANY PIPE.
- CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS.
- THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE WATER AND WASTEWATER IMPROVEMENTS.
- ALL PUBLIC WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO CITY PUBLIC WORKS STANDARD DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- ALL PRIVATE WATER AND WASTEWATER CONSTRUCTION, PIPE, STRUCTURES, AND FITTINGS SHALL ADHERE TO THE APPLICABLE PLUMBING CODE. CONTRACTOR SHALL ARRANGE FOR REQUIRED CITY INSPECTIONS.
- EMBEDMENT FOR ALL WATER AND WASTEWATER LINES, PUBLIC OR PRIVATE, SHALL BE PER CITY STANDARD DETAILS.
- CONTRACTOR SHALL TAKE REQUIRED SANITARY PRECAUTIONS, FOLLOWING ANY CITY, ODEQ, AND AWWA STANDARDS, TO KEEP WATER PIPE AND FITTINGS CLEAN AND CAPPED AT TIMES WHEN INSTALLATION IS NOT IN PROGRESS.
- CONTRACTOR SHALL PROVIDE CONSTRUCTION SURVEYING FOR ALL WATER AND WASTEWATER LINES.
- ALL WATER AND WASTEWATER SERVICES SHALL TERMINATE 5-FEET OUTSIDE THE BUILDING, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COMPLY WITH CITY REQUIREMENTS FOR WATER AND WASTEWATER SERVICE DISRUPTIONS AND THE AMOUNT OF PRIOR NOTICE THAT IS REQUIRED, AND SHALL COORDINATE DIRECTLY WITH THE APPROPRIATE CITY DEPARTMENT.
- CONTRACTOR SHALL SEQUENCE WATER AND WASTEWATER CONSTRUCTION TO AVOID INTERRUPTION OF SERVICE TO SURROUNDING PROPERTIES.
- CONTRACTOR SHALL MAINTAIN WATER SERVICE AND WASTEWATER SERVICE TO ALL CUSTOMERS THROUGHOUT CONSTRUCTION WITH THE EXCEPTION OF THE CITY OF TULSA 24" AND 48" WATERLINES. CONTRACTOR SHALL COORDINATE WITH CITY OF TULSA PRIOR TO INTERRUPTING WATER SERVICE FOR THESE CONNECTIONS (IF NECESSARY, BY USE OF TEMPORARY METHODS APPROVED BY THE CITY AND OWNER). THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL WATER AND WASTEWATER LINES CROSSING THE PROJECT. THE CONTRACTOR SHALL REPAIR ALL DAMAGED LINES IMMEDIATELY. ALL REPAIRS OF EXISTING WATER MAINS, WATER SERVICES, SEWER MAINS, AND SANITARY SEWER SERVICES ARE SUBSIDIARY TO THE WORK, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- IF ANY ACTIVE EXISTING SERVICE LINES ARE CUT OFF BY REMOVAL OF SANITARY SEWER LINE AND MANHOLE, THEN THEY MUST BE RECONNECTED TO THE MAIN FOR SERVICE AT THE DEVELOPER'S EXPENSE.
- VALVE ADJUSTMENTS SHALL BE CONSTRUCTED SUCH THAT THE COVERS ARE AT FINISHED SURFACE GRADE OF THE PROPOSED PAVEMENT.
- THE ENDS OF ALL EXISTING WATER MAINS THAT ARE CUT, BUT NOT REMOVED, SHALL BE PLUGGED AND ABANDONED IN PLACE. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY COST TO THE PROJECT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- CONTRACTOR SHALL INSTALL A FULL SEGMENT OF WATER OR WASTEWATER PIPE CENTERED AT ALL UTILITY CROSSINGS SO THAT THE JOINTS ARE GREATER THAN 9-FEET FROM THE CROSSING, WHERE POSSIBLE.
- ALL CROSSING AND LOCATIONS WHERE WATER IS LESS THAN 10-FEET FROM WASTEWATER, WATER CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ODEQ CHAPTER 626.
- ALL WATER AND WASTEWATER SHALL BE TESTED IN ACCORDANCE WITH THE CITY, AWWA, AND ODEQ STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF OKLAHOMA, TO THE CITY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE CITY.
- CONTRACT SHALL SUBMIT PROFESSIONAL ENGINEERED TRENCH EXCAVATION PLAN FOR ALL EXCAVATIONS IN EXCESS OF 20 FEET.
- THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL EROSION CONTROL DEVICES DAMAGED DUE TO CONSTRUCTION.
- CONTRACTOR WILL BE REQUIRED TO VACUUM TEST ALL MANHOLES ACCORDING TO CURRENT CITY OF TULSA STANDARDS AND SPECIFICATIONS. EXISTING MANHOLES SHALL BE VACUUM TESTED PRIOR TO ANY MODIFICATIONS AND AFTER WORK IS COMPLETE.
- SEWERS AND MANHOLES TO BE ABANDONED SHALL BE SECURELY BLOCKED AT ANY POINTS OF INTAKE OR DISCHARGE WITH A BULKHEAD OR PREFORMED PLUG AND SHALL BE COMPLETELY FILLED WITH CLEAN SAND, CELLULAR CONCRETE OR FLOWABLE FILL.
- FRAMES AND COVERS FROM ANY STRUCTURES SCHEDULED FOR ABANDONMENT SHALL BE RETURNED TO THE CITY SEWER AND OPERATIONS MAINTENANCE AT 9319 E 42ND STREET NORTH BETWEEN 7:30 AM AND 3:00 PM MONDAY THRU FRIDAY. AT A MINIMUM ALL STRUCTURES SHALL BE COMPLETELY REMOVED TO A POINT THREE (3) FEET BELOW THE FINAL GRADE, OR THE DEPTH NOTED ON THE DRAWINGS. SAND OR FLOWABLE FILL SHALL BE USED TO FILL THE STRUCTURE.
- THE DEVELOPER SHALL MAKE ANY NEEDED MODIFICATIONS TO EXISTING MANHOLE IN ORDER TO COMPLY WITH CURRENT CITY OF TULSA STANDARDS OR MAINTENANCE REQUIREMENTS. THE DEVELOPER SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH INTERNAL INSPECTION, REHAB PLAN PREPARATION AND CONSTRUCTION.
- SERVICE TEES SHALL BE CONSTRUCTED AS PART OF IDP. SERVICE CONNECTION TO BUILDINGS SHALL BE DONE SEPARATELY AS A SEWER TAP PERMIT.
- BACKFLOW PREVENTER MUST BE INSTALLED IF BUILDING SITE IS BELOW THE UPSTREAM/DOWNSTREAM MANHOLE RIM+ 1'
- CONCRETE MANHOLES, ASSOCIATED WITH MAINS 15" ID AND LARGER, TO BE DESIGNED WITH INTERIOR EPOXY COATING OR FIBERGLASS WITH NO COATING.
- MANHOLE LID SHOULD BE 3200 SERIES COMPOSITE UTILITY ACCESS COVER WITH QUARTER TURN ADOLDS LOCKS MANUFACTURED BY EAST JORDAN PER CITY STANDARDS FOR MANHOLES IN FLOODPLAIN.
- ALL MANHOLES MUST HAVE 30" LIDS AND COVERS AND NO STEPS.
- WATER AND SANITARY SEWER SEPARATION (OUTSIDE TO OUTSIDE OF PIPES) TO BE MINIMUM TWO (2) FEET VERTICAL & TEN (10) FEET HORIZONTAL PER ODEQ REGULATIONS. WHEN WATER AND SEWER SEPARATION CANNOT BE MAINTAINED, THE SANITARY SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE. SANITARY SEWER MUST BE INSTALLED AND TESTED FOR PRESSURE AND LEAKAGE IN ACCORDANCE WITH COT STANDARD SPECIFICATION PART 203 AND ODEQ STANDARD 252-626-19-2(e).
- RIPRAP DESIGN AND INSTALLATION SHALL COMPLY WITH THE MORE STRINGENT OF THE FOLLOWING: (1) COT STANDARD SPECIFICATIONS ADOPTED BY THE CITY OF TULSA (2) CURRENT CITY OF TULSA STORMWATER MANAGEMENT CRITERIA MANUAL



APPROVED FOR IDP PERMIT ONLY

Michael Ling, PE Date  
Infrastructure Development Manager  
City of Tulsa

PROJECT  
CLYDESDALE

DATE  
APRIL 2026

SCALE: AS SHOWN

DESIGNED BY: DR

DRAWN BY: DB

CHECKED BY: DR

**PROJECT  
CLYDESDALE**

**SSWR-IDP  
PLAN AND PROFILE**

SHEET NUMBER  
**SS11**

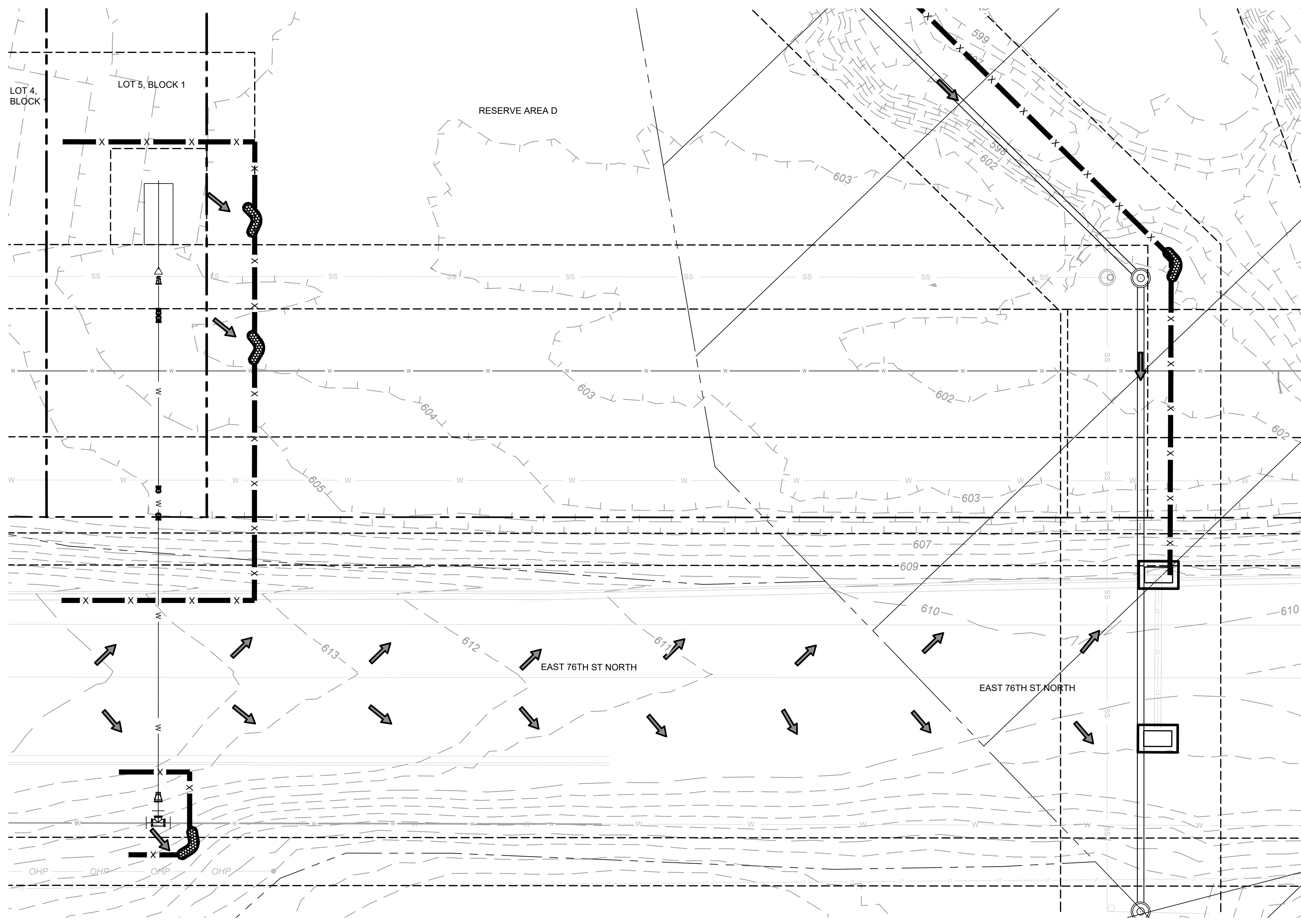
REVISIONS

No.	REVISIONS	DATE	BY

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1437 SOUTH BOULDER AVE., SUITE 900 TULSA, OK 74119  
PHONE: 918-580-8888 FIRM NO. 2740. EXP. JUNE 30, 2027  
WWW.KIMLEY-HORN.COM



Plotted By: Becerra, Humberto Date: April 08, 2026 03:13:42pm File Path: C:\ACC\ACCDocs\Kimley-Horn\060057900\_Cyl\Project Files\00\_Civil\SPS\07\_Cyl\Project Files\03\_Production-DWGS\CYL-1A-IDP - SSWR.dwg  
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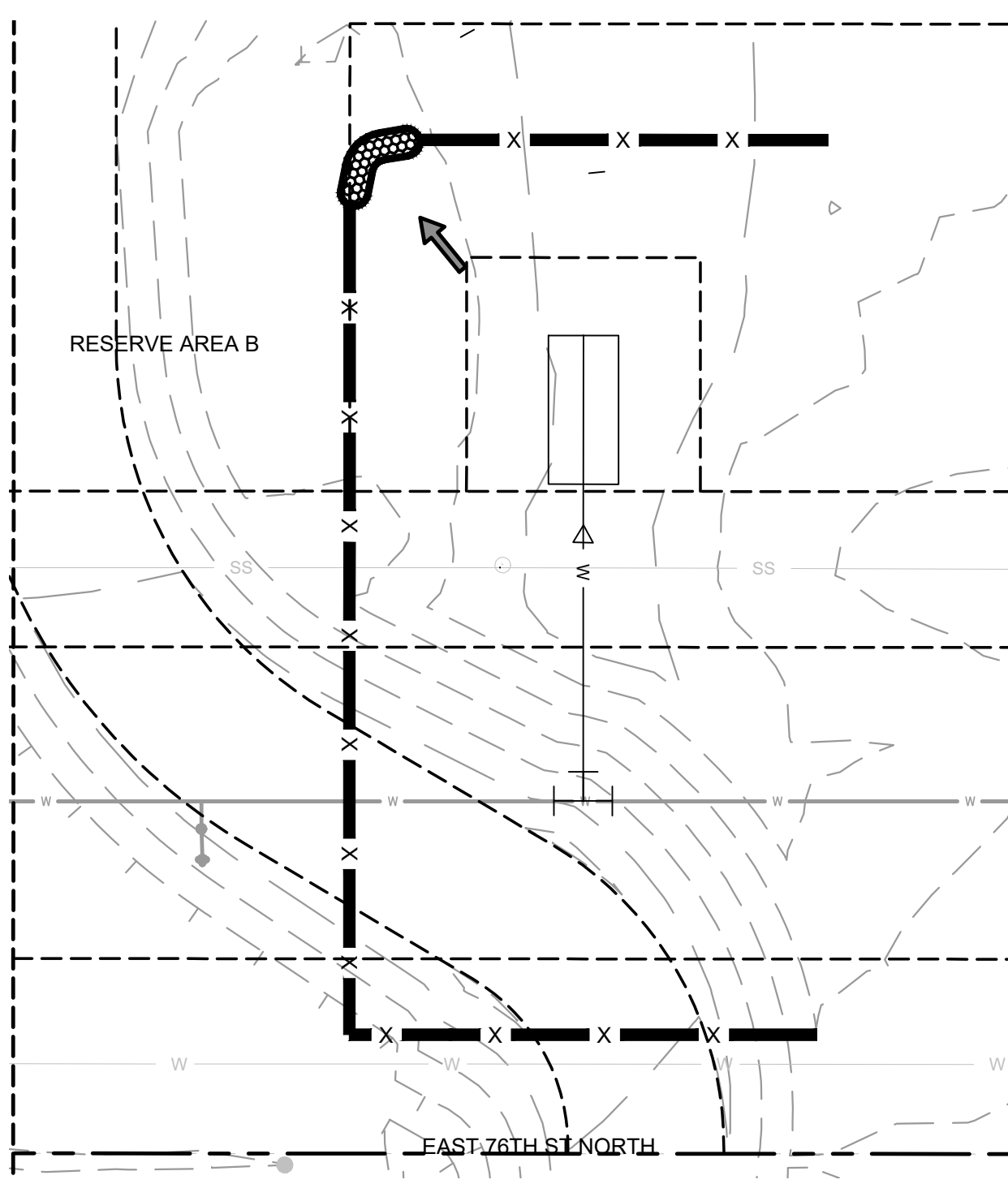
**1 DWTR-IDP-2 EROSION CONTROL**  
 SCALE 1:20

**LEGEND**

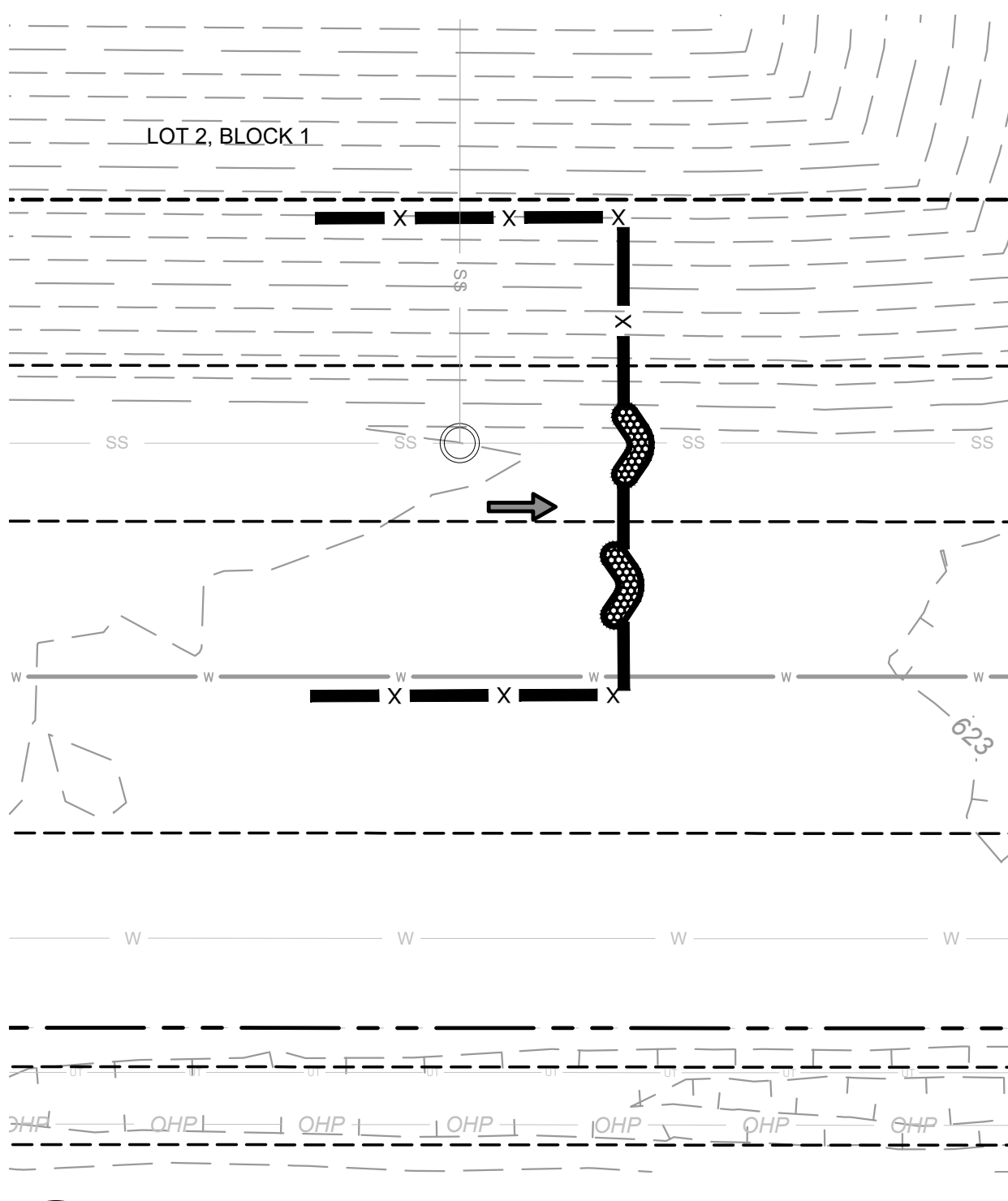
- EXISTING CONTOUR
- DIRECTION OF FLOW
- FILTER BARRIER (SILT FENCE)
- CURB INLET PROTECTION
- ROCK DAM

**EROSION CONTROL NOTES:**

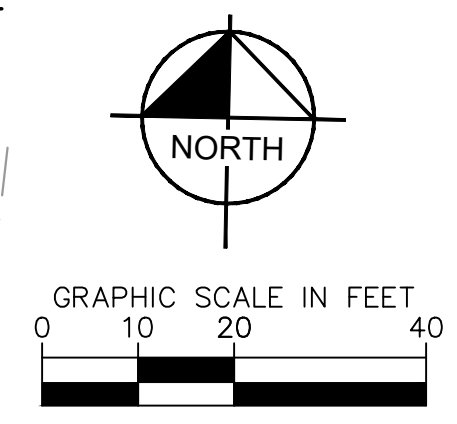
1. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED PER TULSA COUNTY REGULATIONS.



**2 DWTR-IDP-1 EROSION CONTROL**  
 SCALE 1:20



**3 SSWR-IDP PROPOSED MANHOLE EROSION CONTROL**  
 SCALE 1:20



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DATE	APRIL 2026
SCALE	AS SHOWN
DESIGNED BY:	DR
DRAWN BY:	DB
CHECKED BY:	DR

**PROJECT**  
**CLYDESDALE**

**EROSION CONTROL**  
**PLAN**

SHEET NUMBER  
**EC01**