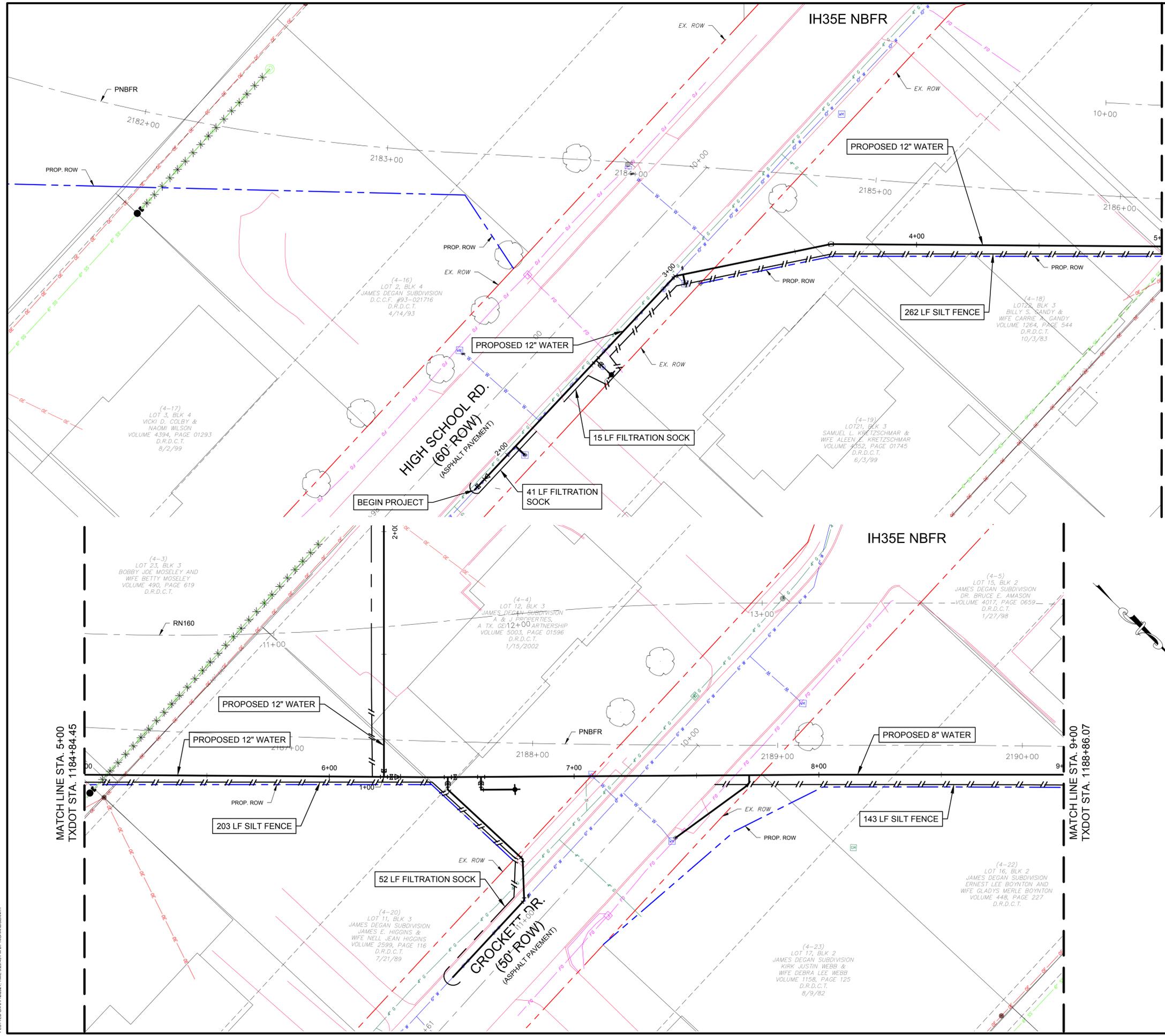


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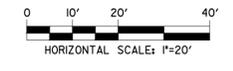
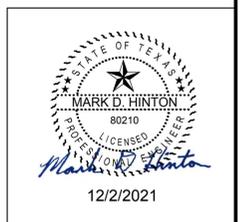


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  - 2.) ALL WORK PERFORMED AND STAGING OF MATERIALS SHALL REMAIN WITHIN CONSTRUCTION EASEMENTS / STAGING AREAS AS SHOWN ON THE PLANS.
  - 3.) CONTRACTOR SHALL INSTALL EROSION CONTROLS AND IMPLEMENT BMPs TO PROTECT AND AVOID IMPACTING EXISTING WETLANDS AND WATERS OF THE US.
  - 4.) CITY OF LEWISVILLE TREE PRESERVATION GUIDELINES WILL BE APPLIED TO CONSTRUCTION ZONES LOCATED WITHIN FORESTED AREAS.

- LEGEND**
- ROCK CONSTRUCTION ENTRANCE/ EXIT
  - FILTRATION SOCKS
  - SILT FENCE

**WARNING!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



REV.	COMMENTS	BY	DATE

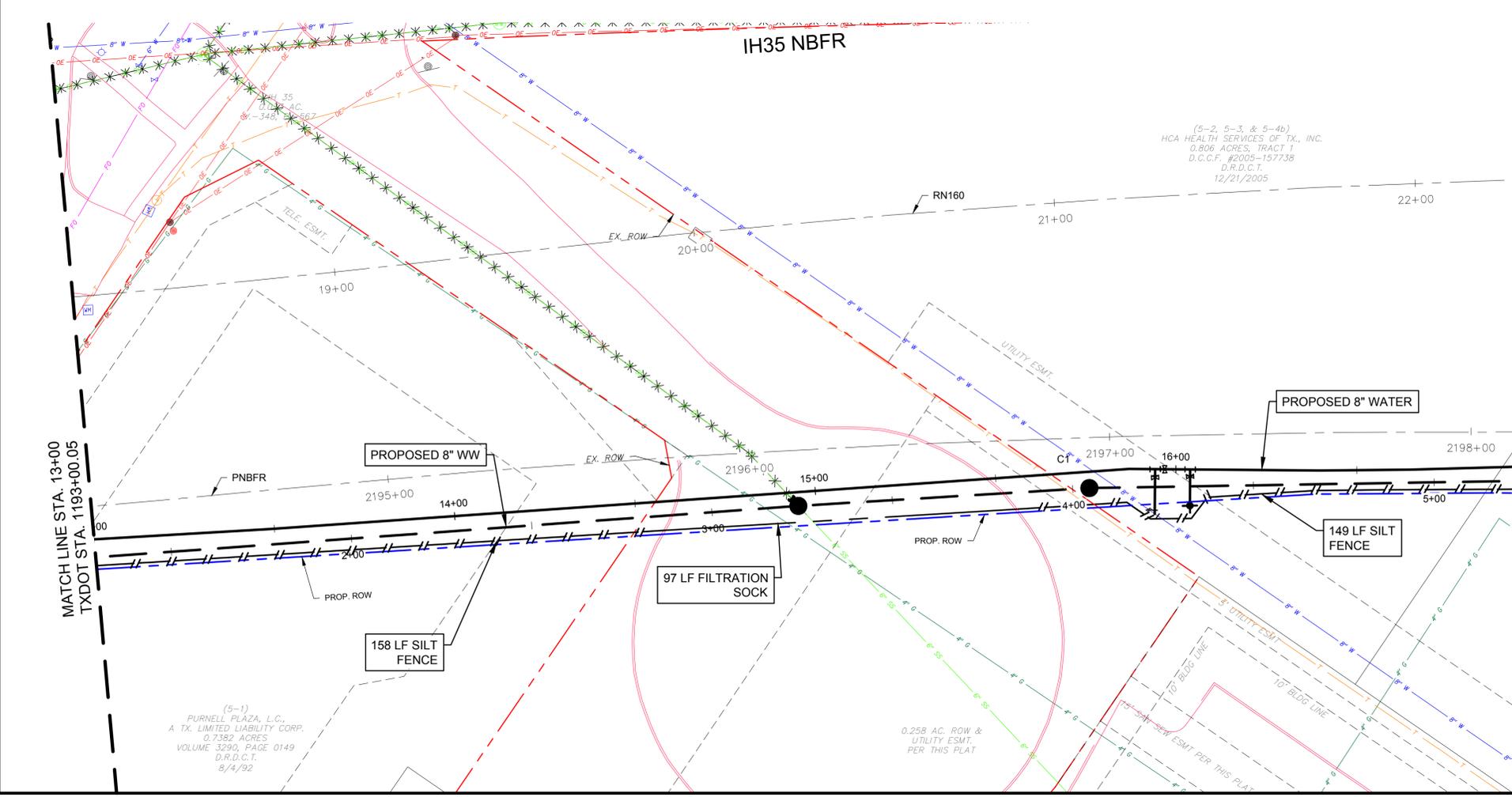
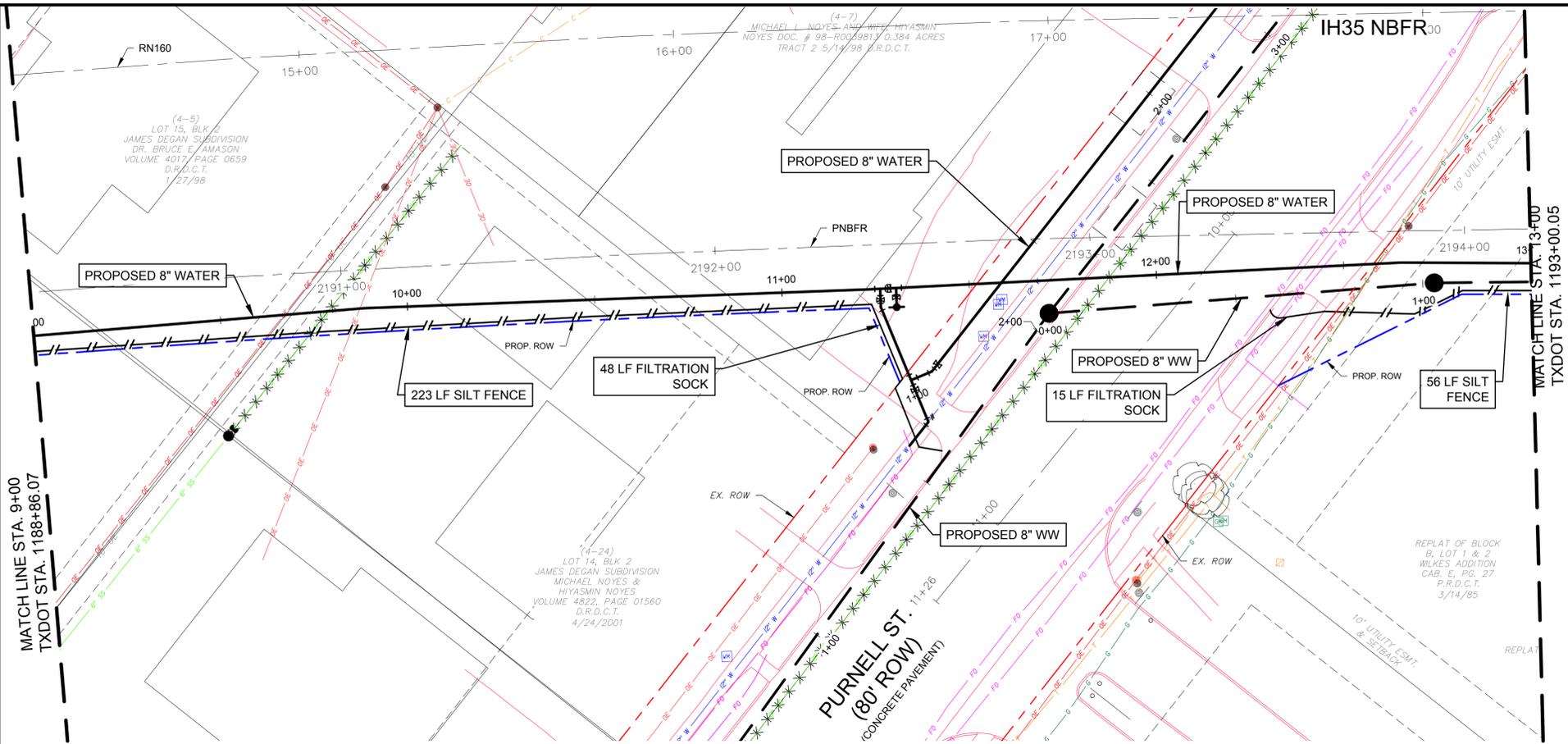
**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

**EROSION CONTROL - W1**  
**FROM STA. 1+00 TO STA. 9+00**

<b>rjngroup</b>	Texas Registered Engineering Firm F-3260	<b>RJN GROUP, INC.</b> 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN:	DATE:	SCALE:	PROJECT NO.:	SHEET:
MDH	Dec 2021	1"=20' H	18-3658-00	42 OF 74



**NOTES:**

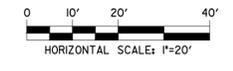
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- 3) CONTRACTOR SHALL INSTALL EROSION CONTROLS AND IMPLEMENT BMPs TO PROTECT AND AVOID IMPACTING EXISTING WETLANDS AND WATERS OF THE US.
- 4) CITY OF LEWISVILLE TREE PRESERVATION GUIDELINES WILL BE APPLIED TO CONSTRUCTION ZONES LOCATED WITHIN FORESTED AREAS.

**LEGEND**

- ROCK CONSTRUCTION ENTRANCE/ EXIT
- FILTRATION SOCKS
- SILT FENCE

**WARNING!!**  
EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
Engineering infrastructure for tomorrow  
Texas Registered Engineering Firm F-3260  
14755 Preston Rd, Suite 710  
Dallas TX 75254



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

FOX AVE. TO W. COLLEGE ST.

**EROSION CONTROL - W1**  
FROM STA. 9+00 TO STA. 17+00

**rjngroup** Texas Registered Engineering Firm F-3260  
RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=20' H	PROJECT NO: 18-3658-00	SHEET: 43 OF 74
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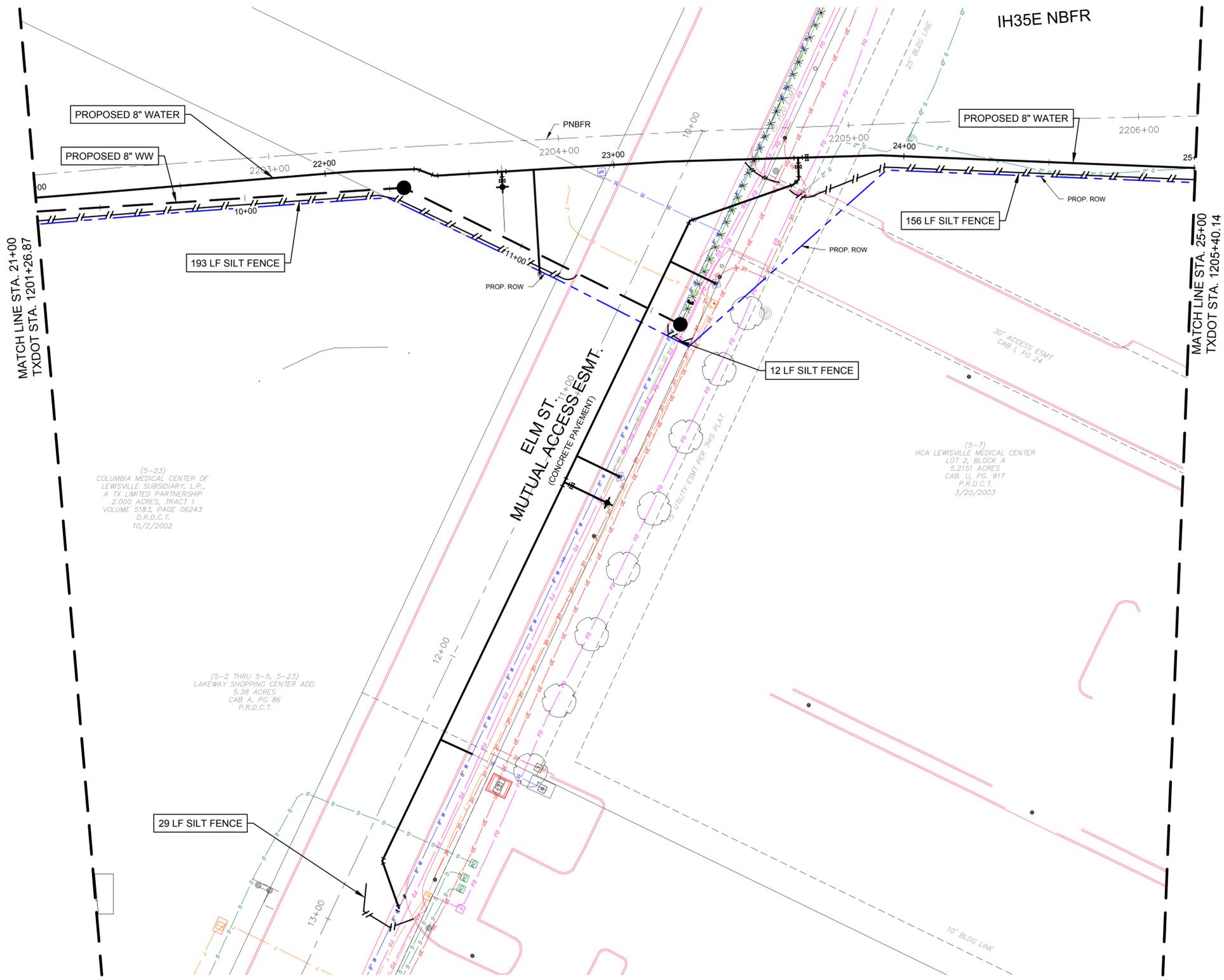


**NOTES:**

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- 4.) CITY OF LEWISVILLE TREE PRESERVATION GUIDELINES WILL BE APPLIED TO CONSTRUCTION ZONES LOCATED WITHIN FORESTED AREAS.

**LEGEND**

-  ROCK CONSTRUCTION ENTRANCE/ EXIT
-  FILTRATION SOCKS
-  SILT FENCE



(5-23)  
COLUMBIA MEDICAL CENTER OF  
LEWISVILLE SUBSIDIARY, L.P.,  
A TX LIMITED PARTNERSHIP  
2.000 ACRES, TRACT 1  
VOLUME 5183, PAGE 06243  
D.R.D.C.T.  
10/2/2002

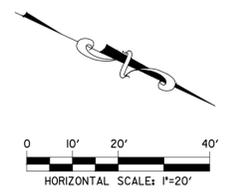
(5-2 THRU 5-5, 5-23)  
LAKEWAY SHOPPING CENTER ADD.  
5.38 ACRES  
CAB A, PG 86  
P.R.D.C.T.

(5-7)  
HCA LEWISVILLE MEDICAL CENTER  
LOT 2, BLOCK A  
5.2151 ACRES  
CAB. U, PG. 917  
P.R.D.C.T.  
3/20/2003

**WARNING!!**  
EXISTING UNDERGROUND TELEPHONE,  
OVERHEAD, UNDERGROUND ELECTRIC AND  
GAS UTILITIES IN AREA. CONTACT UTILITY  
LOCATOR 48 HOURS PRIOR TO CONSTRUCTION



**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
Texas Registered Engineering Firm F-3260  
14755 Preston Rd, Suite 710  
Dallas TX 75254




STATE OF TEXAS  
MARK D. HINTON  
80210  
LICENSED PROFESSIONAL ENGINEER  
*Mark D. Hinton*  
12/2/2021

REV.	COMMENTS	BY	DATE
△			
△			
△			

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

**EROSION CONTROL - W1**  
**FROM STA. 21+00 TO STA. 25+00**

**rjngroup** Texas Registered Engineering Firm F-3260 RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN:	MDH	DATE:	SCALE:	PROJECT NO.:	SHEET:
DRAWN:	PRR	Dec 2021	1"=20' H	18-3658-00	45 OF 74
CHECKED:	JRC				

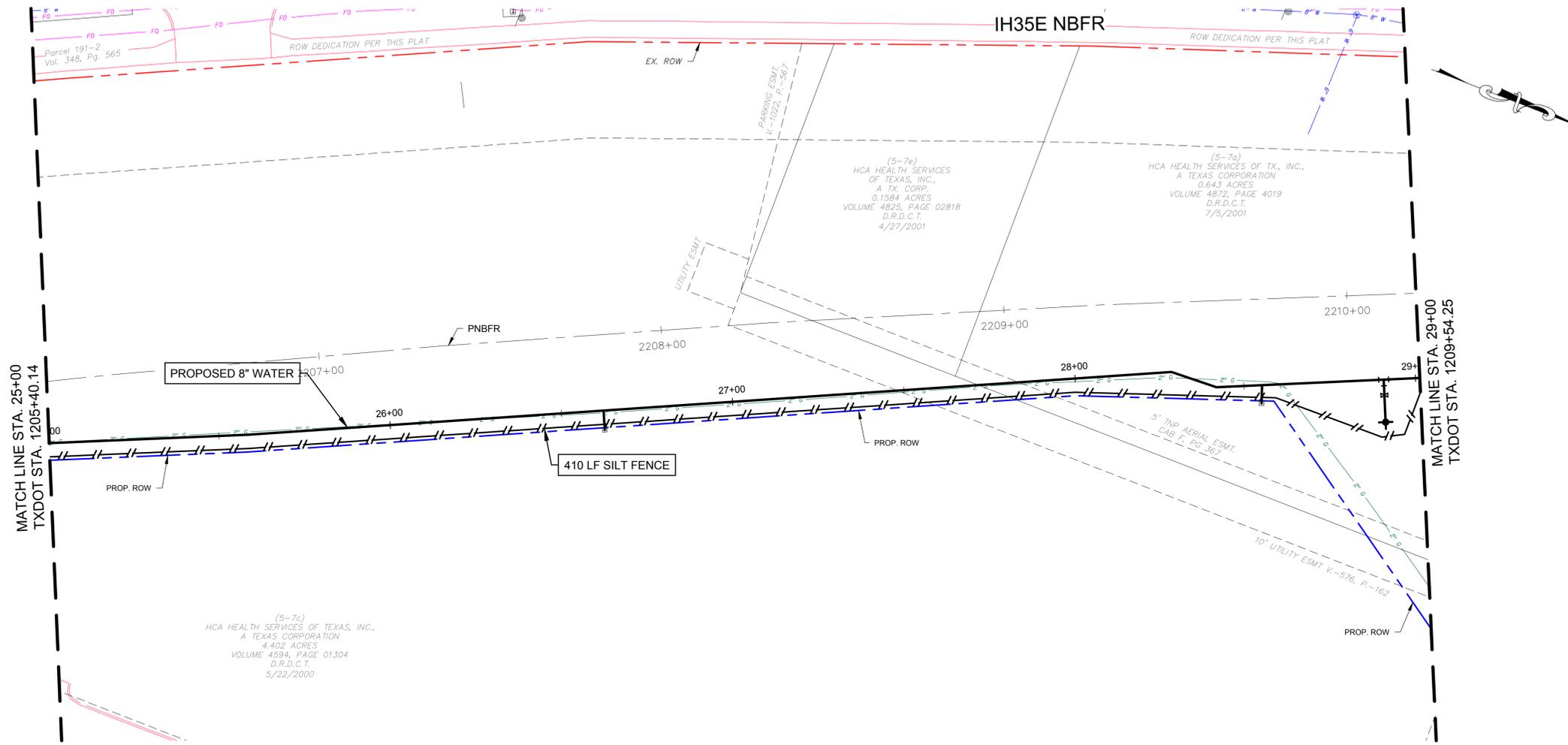
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 PLOTTED ON 01/12/2021, TIME 12:43 PM BY RJK/BD/AMM

**NOTES:**

- 1.) CONTRACTOR INGRESS/EGRESS ACCESS TO PROJECT SITE IS LIMITED TO LOCATIONS SHOWN ON THE PLANS, UNLESS CONTRACTOR SUBMITS ADDITIONAL ACCESS PLAN FOR APPROVAL TO ENGINEER PRIOR TO CONSTRUCTION.
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- 4.) CITY OF LEWISVILLE TREE PRESERVATION GUIDELINES WILL BE APPLIED TO CONSTRUCTION ZONES LOCATED WITHIN FORESTED AREAS.

**LEGEND**

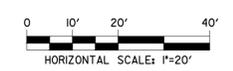
-  ROCK CONSTRUCTION ENTRANCE/ EXIT
-  FILTRATION SOCKS
-  SILT FENCE



**WARNING!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION



**RJN GROUP INC.**  
 Engineering infrastructure for tomorrow  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

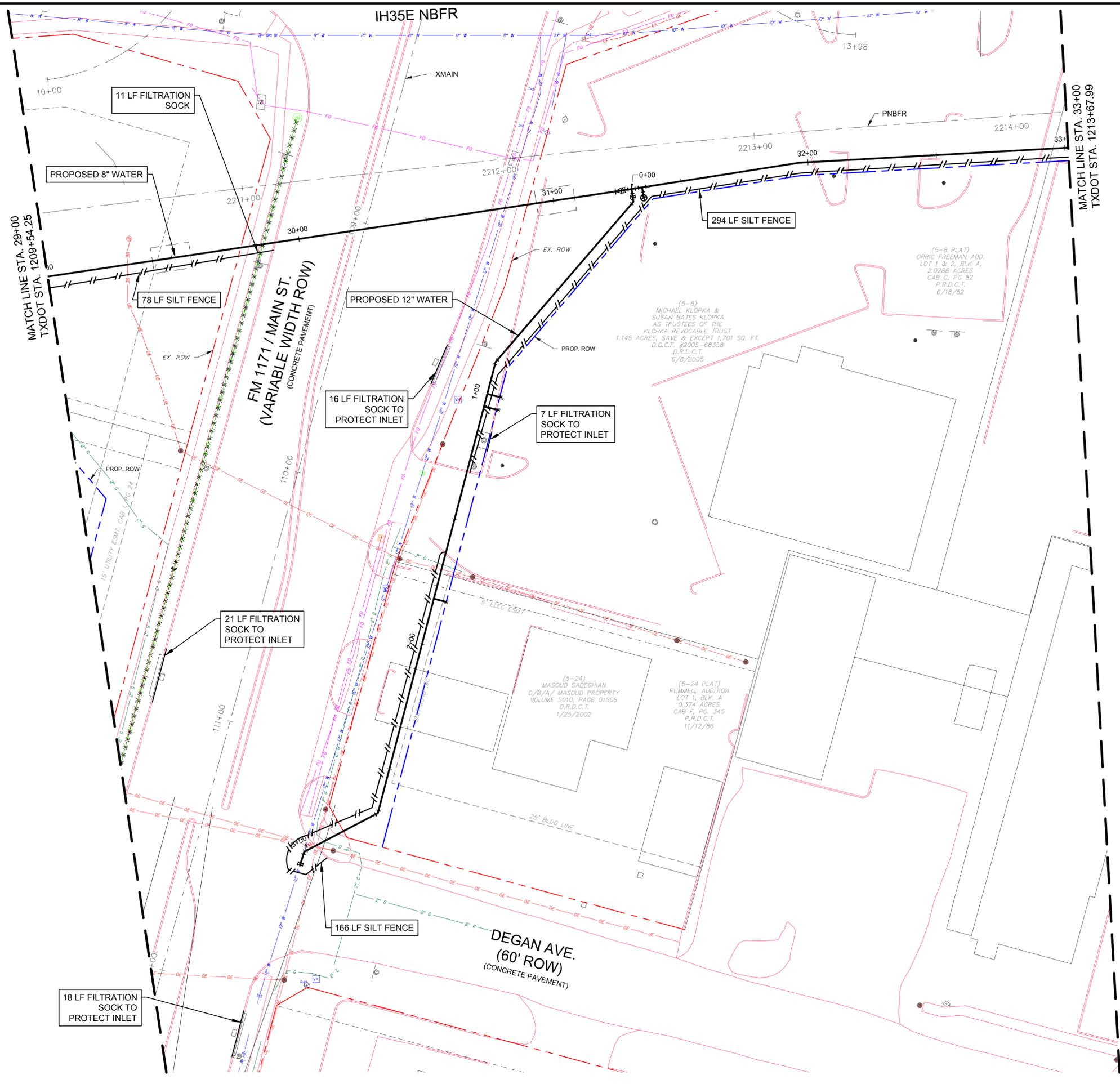
**EROSION CONTROL - W1**  
**FROM STA. 25+00 TO STA. 29+00**

	Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN:	DATE:	SCALE:	PROJECT NO.:	SHEET:
MDH	Dec 2021	1"=20' H	18-3658-00	46 OF 74

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**NOTES:**

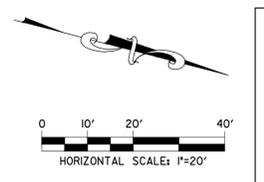
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**LEGEND**

- ROCK CONSTRUCTION ENTRANCE/ EXIT
- FILTRATION SOCKS
- SILT FENCE

**WARNING!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



12/2/2021

REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

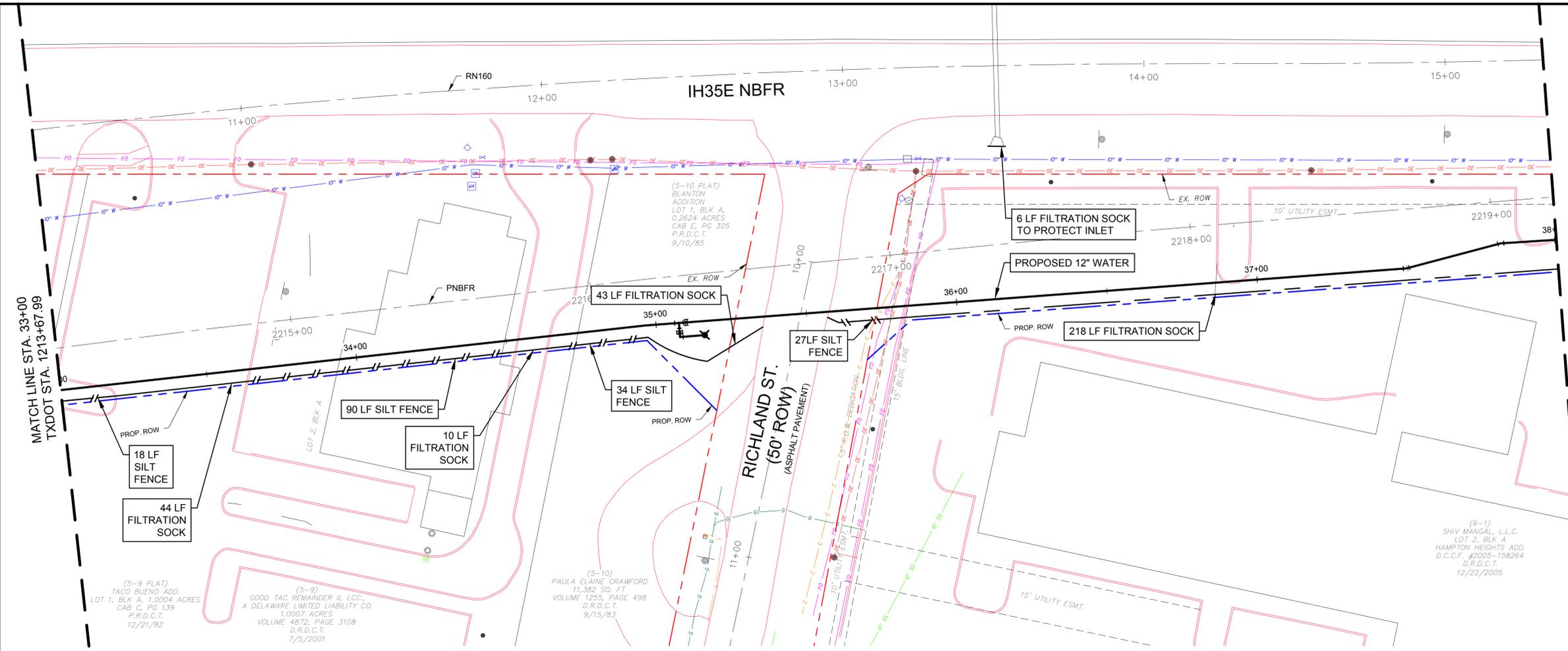
FOX AVE. TO W. COLLEGE ST.

**EROSION CONTROL - W1**  
**FROM STA. 29+00 TO STA. 33+00**

<b>rjngroup</b>	Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=20' H	PROJECT NO: 18-3658-00	SHEET: 47 OF 74
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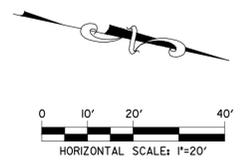


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- LEGEND**
- ROCK CONSTRUCTION ENTRANCE/ EXIT
  - FILTRATION SOCKS
  - SILT FENCE

**WARNING!!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



MARK D. HINTON  
 80210  
 LICENSED PROFESSIONAL ENGINEER  
*Mark D. Hinton*  
 12/2/2021

REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

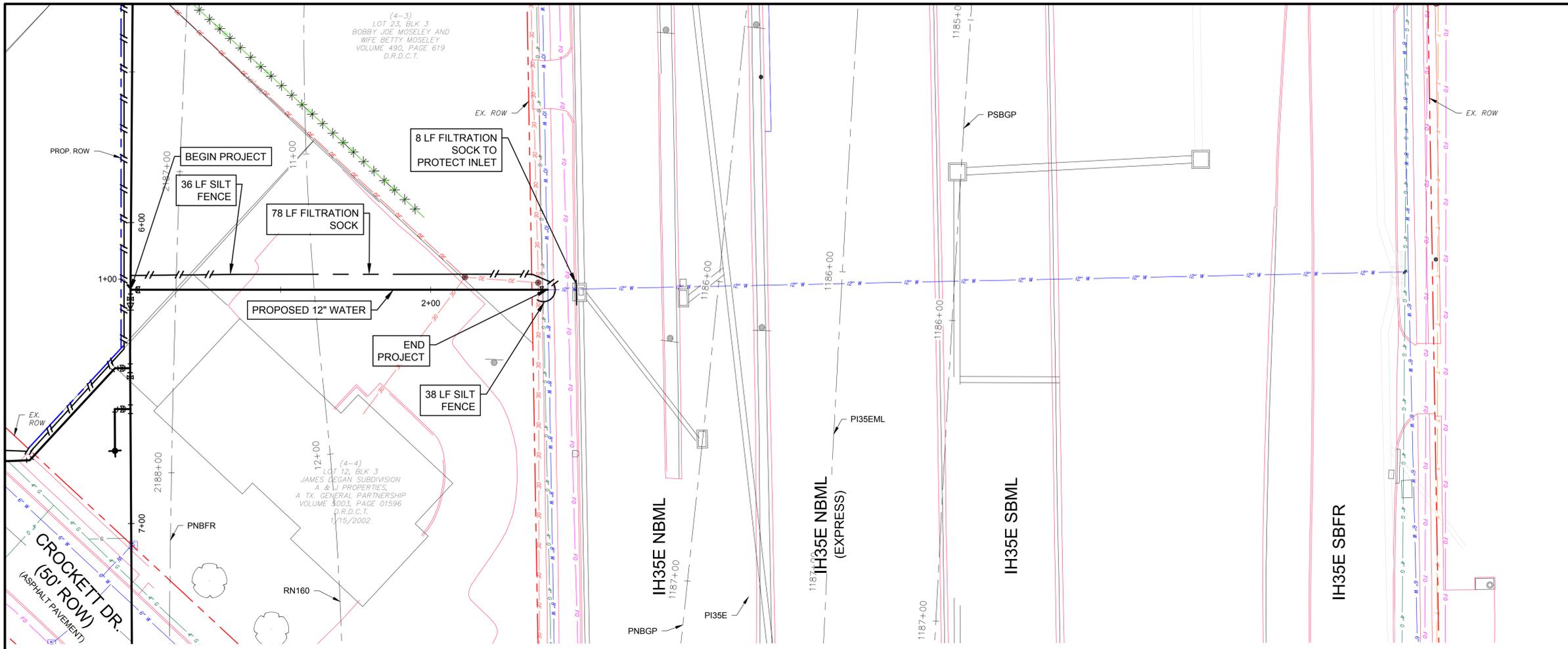
**EROSION CONTROL - W1**  
**FROM STA. 33+00 TO STA. 38+00**

<b>rjngroup</b> Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=20' H	PROJECT NO: 18-3658-00	SHEET: 48 OF 74
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 PLOTTED ON 01/12/2021, TIME 2:18 PM BY RICHARD LAMM



**NOTES:**

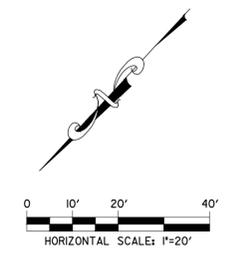
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**LEGEND**

- ROCK CONSTRUCTION ENTRANCE/ EXIT
- FILTRATION SOCKS
- SILT FENCE

**WARNING!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



12/2/2021

REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

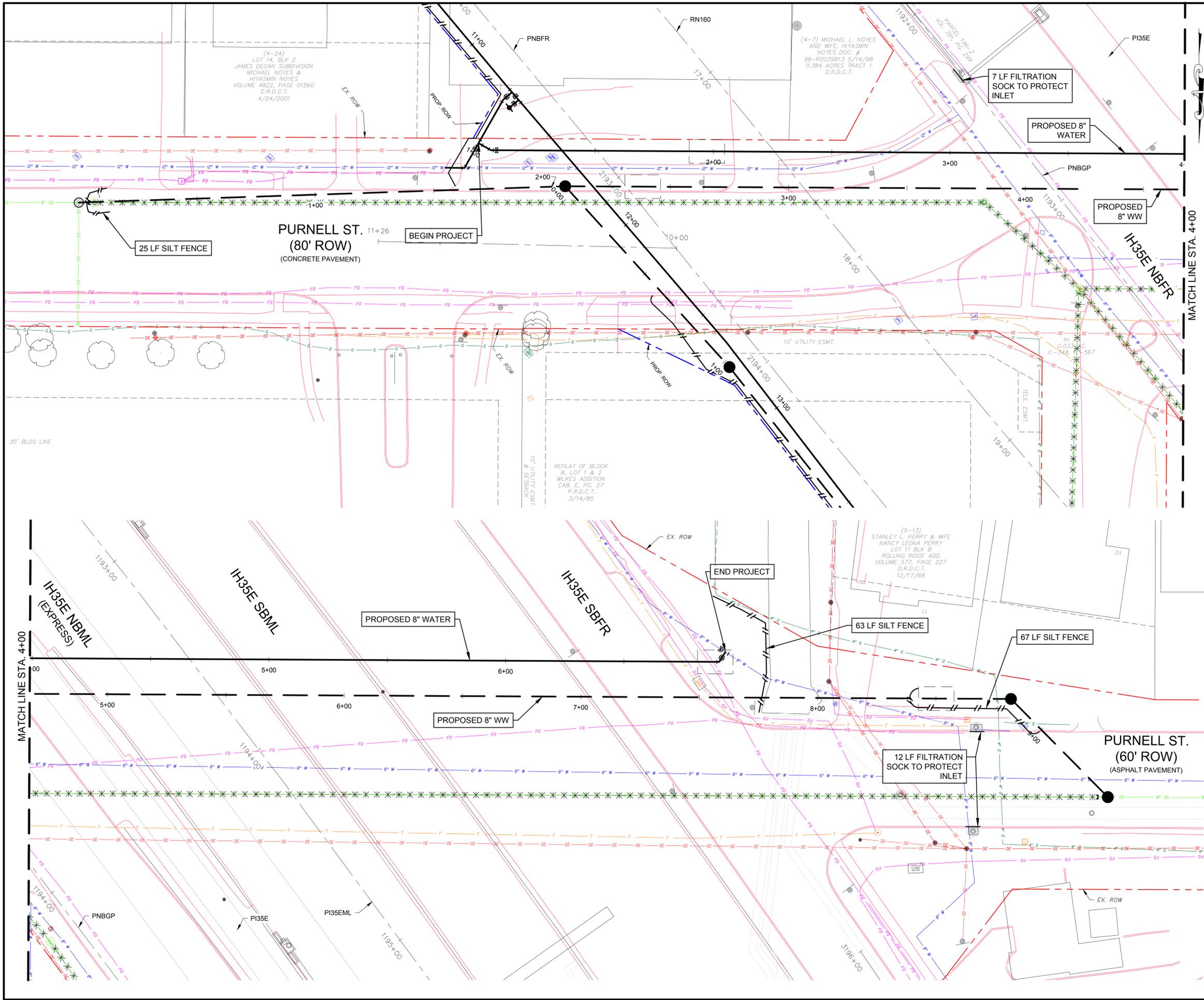
**FOX AVE. TO W. COLLEGE ST.**

**EROSION CONTROL - W2**  
**FROM STA. 1+00 TO END**

<b>rjngroup</b> Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254		
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DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=20' H	PROJECT NO: 18-3658-00	SHEET: 50 OF 74
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**NOTES:**

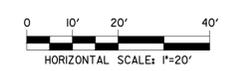
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**LEGEND**

- ROCK CONSTRUCTION ENTRANCE/ EXIT
- FILTRATION SOCKS
- SILT FENCE

**WARNING!!**  
EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
Engineering infrastructure for tomorrow  
Texas Registered Engineering Firm F-3260  
14755 Preston Rd, Suite 710  
Dallas TX 75254



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

FOX AVE. TO W. COLLEGE ST.  
**EROSION CONTROL - W4**  
FROM STA. 1+00 TO END

**rjngroup** Texas Registered Engineering Firm F-3260      RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=20' H	PROJECT NO: 18-3658-00	SHEET: 52 OF 74
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I:\PROJECTS\2021\EROSION CONTROL\W4\W4-01.dwg    PLOT DATE: 12/2/2021    TIME: 2:27 PM    RJB/MDH

- NOTES:**
1. ALL OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY OR PROPERLY PROTECTED BY BARRICADES OR STEEL PLATING. ANY TRENCH WITHIN A DRIVING SURFACE MUST BE COVERED WITH STEEL PLATING.
  2. FLAGGERS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL BID ITEM.
  3. CONTRACTOR TO FOLLOW MUTCD SIGN SPACING GUIDELINES.

**LEGEND**

- - - EXISTING SEWER
- ACCESS SHAFT (OPEN CUT)
- OPEN CUT CONSTRUCTION
- - - TRENCHLESS CONSTRUCTION
- ▨ TEMPORARY SECONDARY LANE CLOSURE (WORK AREA)
- ▩ TYPE III BARRICADE
- - - BARREL
- ⬇ SIGN
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE

**WARNING!!**  
EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
Texas Registered Engineering Firm F-3260  
14755 Preston Rd., Suite 710  
Dallas TX 75254

SCALE: 1"=100'  
IF PLAN SHEET IS IXXI7  
SCALE: 1"=200'

STATE OF TEXAS  
MARK D. HINTON  
80210  
LICENSED PROFESSIONAL ENGINEER  
12/2/2021

REV.	COMMENTS	BY	DATE

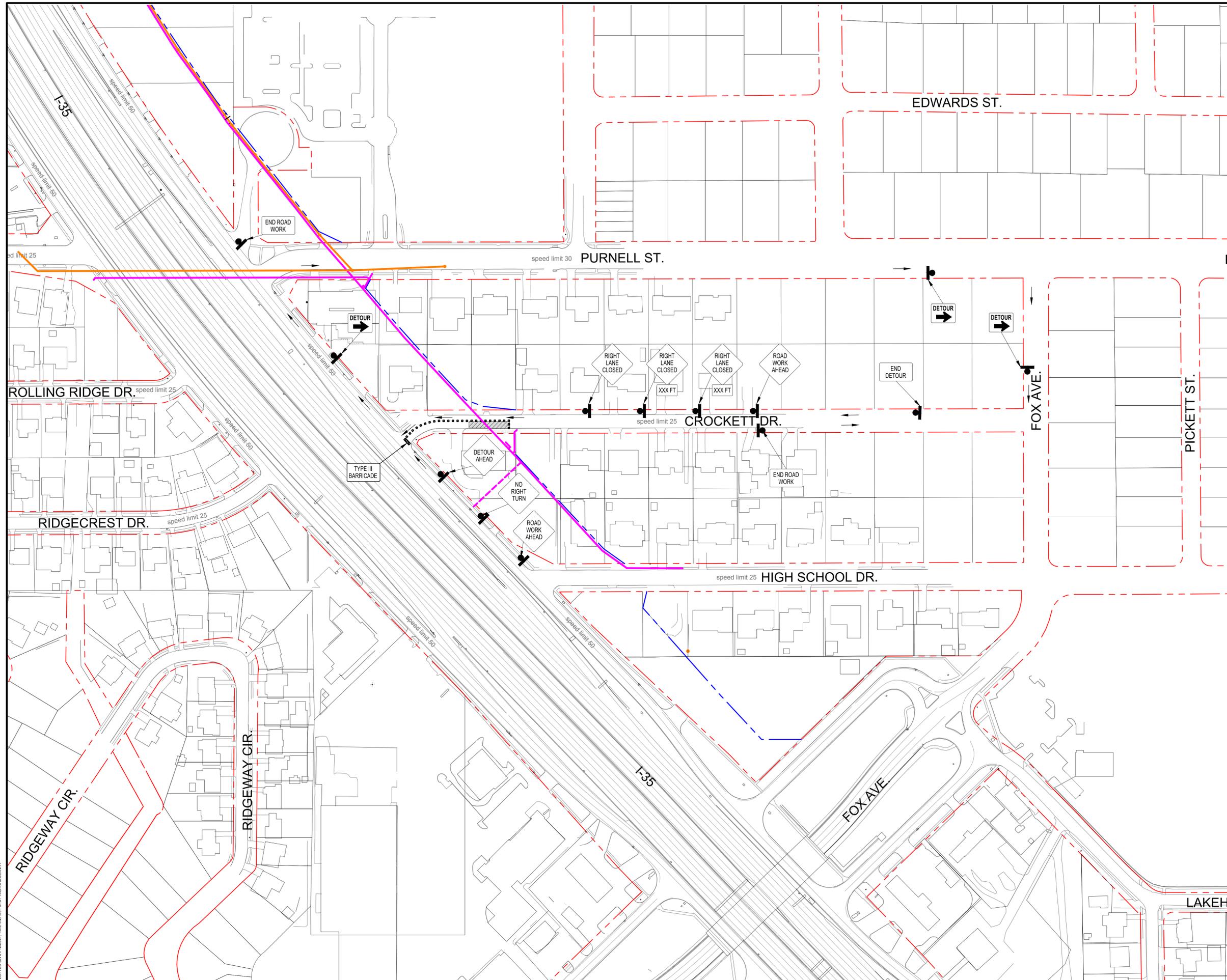
**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

**TRAFFIC CONTROL  
CROCKETT - PHASE 1 WATER**

<b>rjngroup</b>	Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN:	DATE:	SCALE:	PROJECT NO.:	SHEET:
MDH	Dec 2021	1"=100'	18-3658-00	53 OF 74



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 PLOT: 18-3658-00-53.dwg  
 PLOT DATE: 12/2/2021 11:23:33 AM  
 PLOT BY: RJD

- NOTES:**
1. ALL OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY OR PROPERLY PROTECTED BY BARRICADES OR STEEL PLATING. ANY TRENCH WITHIN A DRIVING SURFACE MUST BE COVERED WITH STEEL PLATING.
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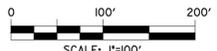
**LEGEND**

- EXISTING SEWER
- ACCESS SHAFT (OPEN CUT)
- OPEN CUT CONSTRUCTION
- TRENCHLESS CONSTRUCTION
- ▨ TEMPORARY SECONDARY LANE CLOSURE (WORK AREA)
- ▩ TYPE III BARRICADE
- o-o- BARREL
- ↑ SIGN
- DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE

**WARNING!!!**  
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**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd., Suite 710  
 Dallas TX 75254

SCALE: 1"=100'  
 IF PLAN SHEET IS IXI7  
 SCALE: 1"=200'



12/2/2021

REV.	COMMENTS	BY	DATE

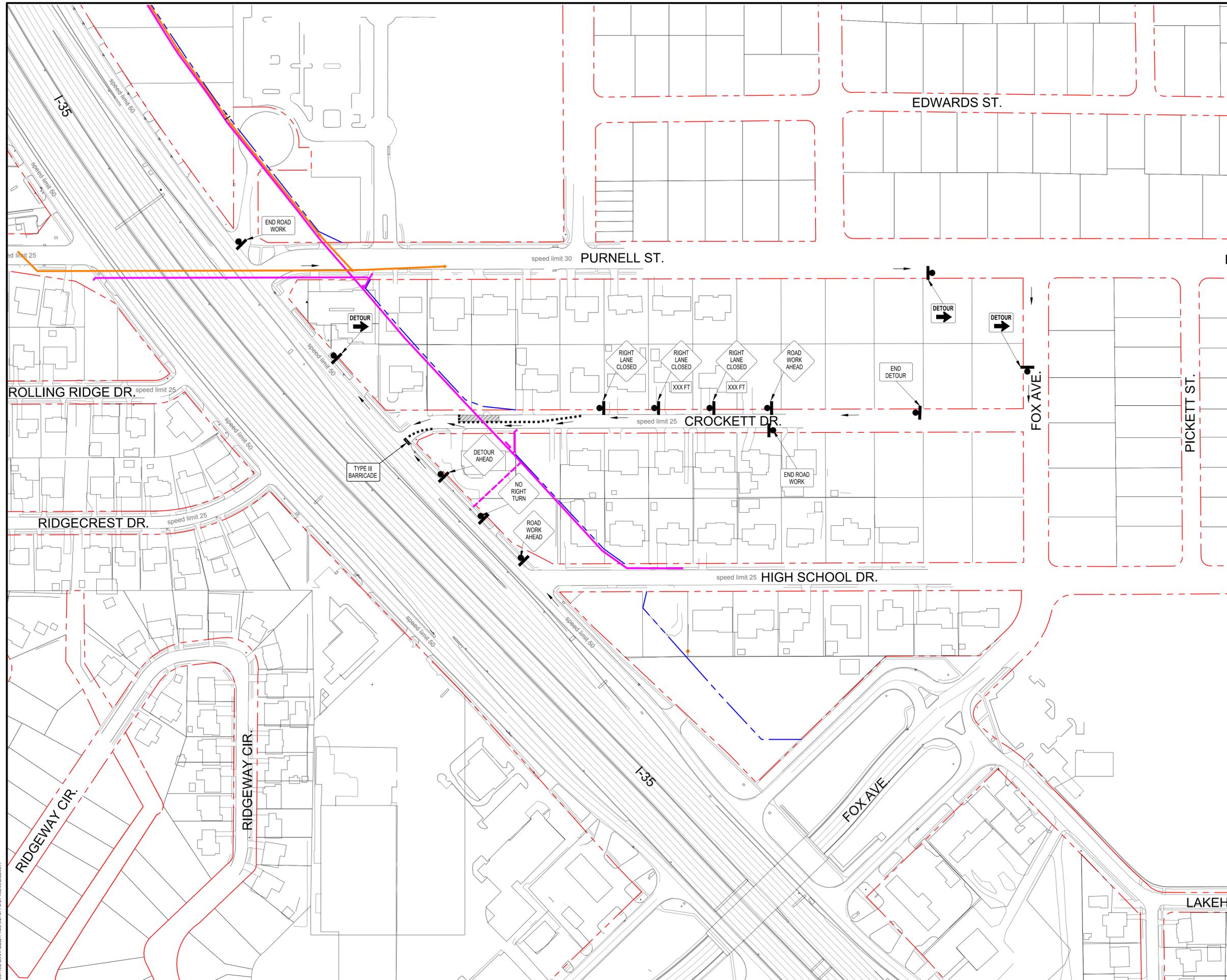
**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

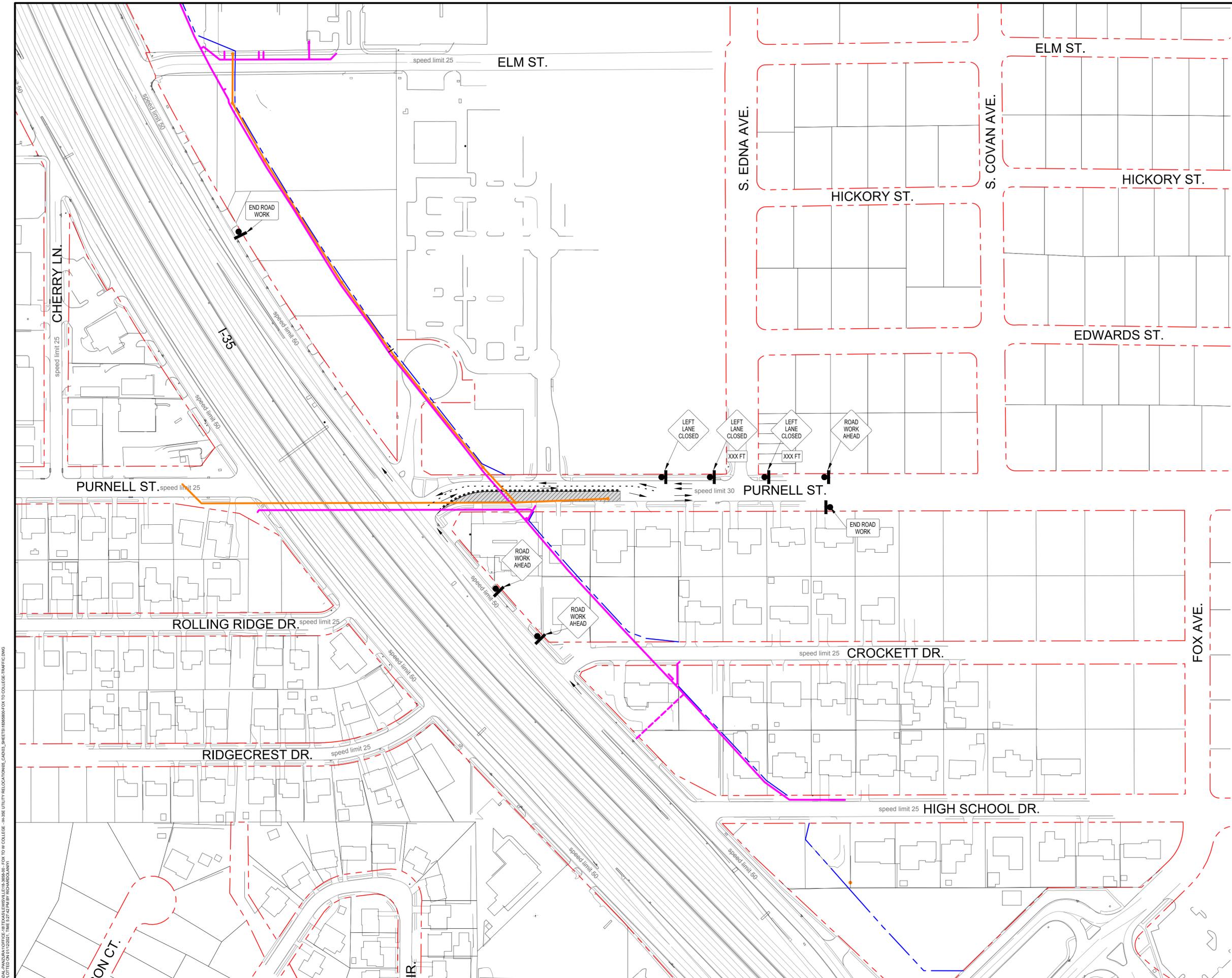
**TRAFFIC CONTROL  
 CROCKETT - PHASE 2 WATER**

**rjngroup** Texas Registered Engineering Firm F-3260 RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN:	DATE:	SCALE:	PROJECT NO.:	SHEET:
MDH	Dec 2021	1"=100'	18-3658-00	54 OF 74



I:\PROJECTS\2021\18-3658\18-3658-00\18-3658-00-54\18-3658-00-54.dwg  
 PLOT: 12/2/2021 11:23:27 AM BY: RJK/MDH



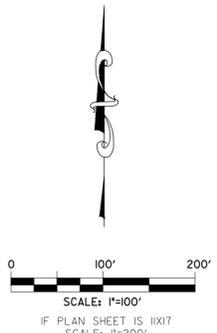
- NOTES:**
1. ALL OPEN TRENCHES MUST BE BACKFILLED AT THE END OF THE DAY OR PROPERLY PROTECTED BY BARRICADES OR STEEL PLATING. ANY TRENCH WITHIN A DRIVING SURFACE MUST BE COVERED WITH STEEL PLATING.
  2. FLAGGERS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL BID ITEM.
  3. CONTRACTOR TO FOLLOW MUTCD SIGN SPACING GUIDELINES.

**LEGEND**

- - - EXISTING SEWER
- ACCESS SHAFT (OPEN CUT)
- OPEN CUT CONSTRUCTION
- - - TRENCHLESS CONSTRUCTION
- ▨ TEMPORARY SECONDARY LANE CLOSURE (WORK AREA)
- ▩ TYPE III BARRICADE
- - - BARREL
- ⬇ SIGN
- ➔ DIRECTION OF TRAFFIC
- CHANNELIZING DEVICE

**WARNING!!**  
 EXISTING UNDERGROUND TELEPHONE, OVERHEAD, UNDERGROUND ELECTRIC AND GAS UTILITIES IN AREA. CONTACT UTILITY LOCATOR 48 HOURS PRIOR TO CONSTRUCTION

**RJN GROUP INC.**  
*Engineering infrastructure for tomorrow*  
 Texas Registered Engineering Firm F-3260  
 14755 Preston Rd, Suite 710  
 Dallas TX 75254



STATE OF TEXAS  
 MARK D. HINTON  
 80210  
 LICENSED PROFESSIONAL ENGINEER  
 Mark D. Hinton  
 12/2/2021

REV.	COMMENTS	BY	DATE
1			
2			

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

**TRAFFIC CONTROL**  
**PURNELL - PHASE 1 WATER & WASTEWATER**

**rjngroup** Texas Registered Engineering Firm F-3260  
 RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN: MDH	DATE: Dec 2021	SCALE: 1"=100'	PROJECT NO: 18-3658-00	SHEET: 55 OF 74
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PURNELL ST. UTILITY RELOCATION AND CONSTRUCTION. SEE SHEET 18-3658-00 FOR COLLEGE TRAFFIC CONTROL. PLOT DATE: 01/12/2021. TIME: 2:24 PM BY: RICHARD LAMAY











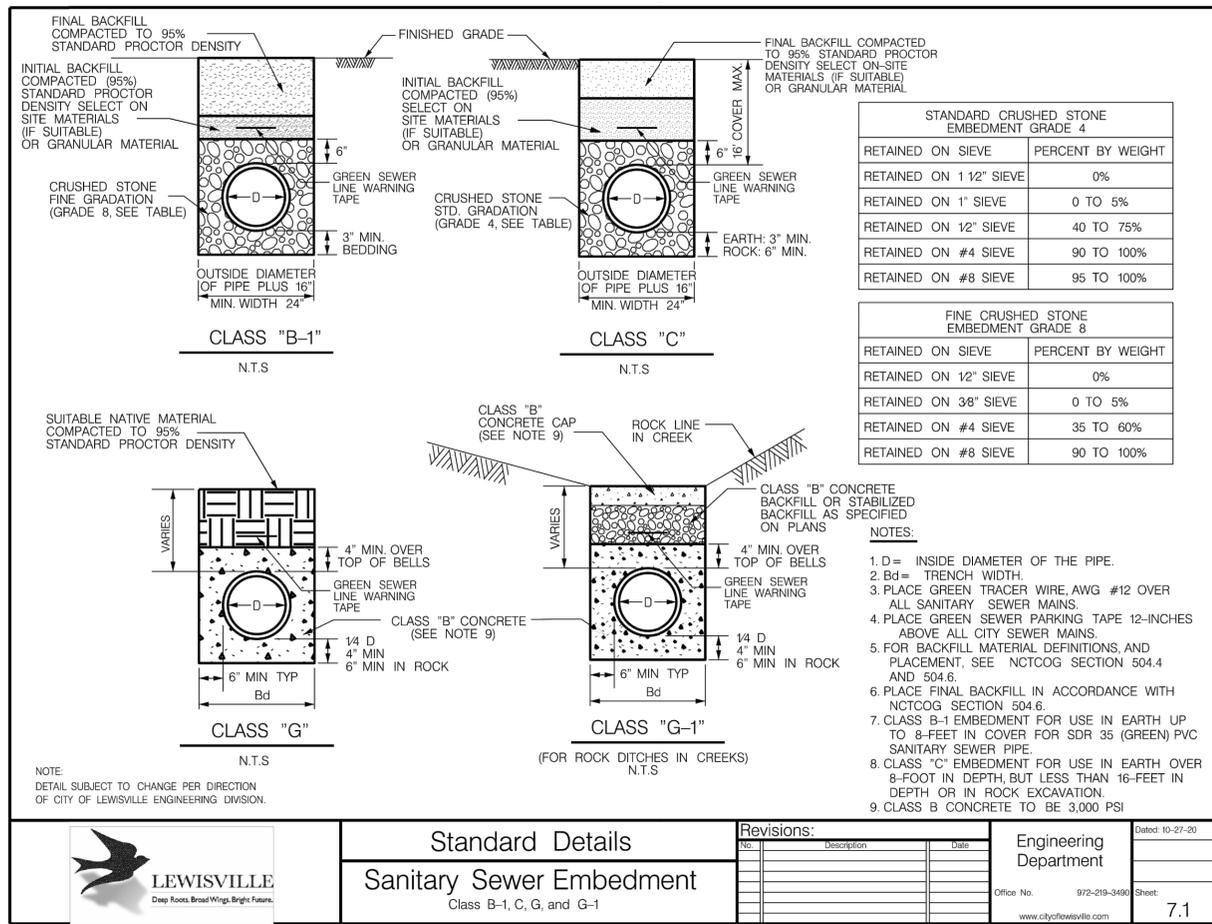






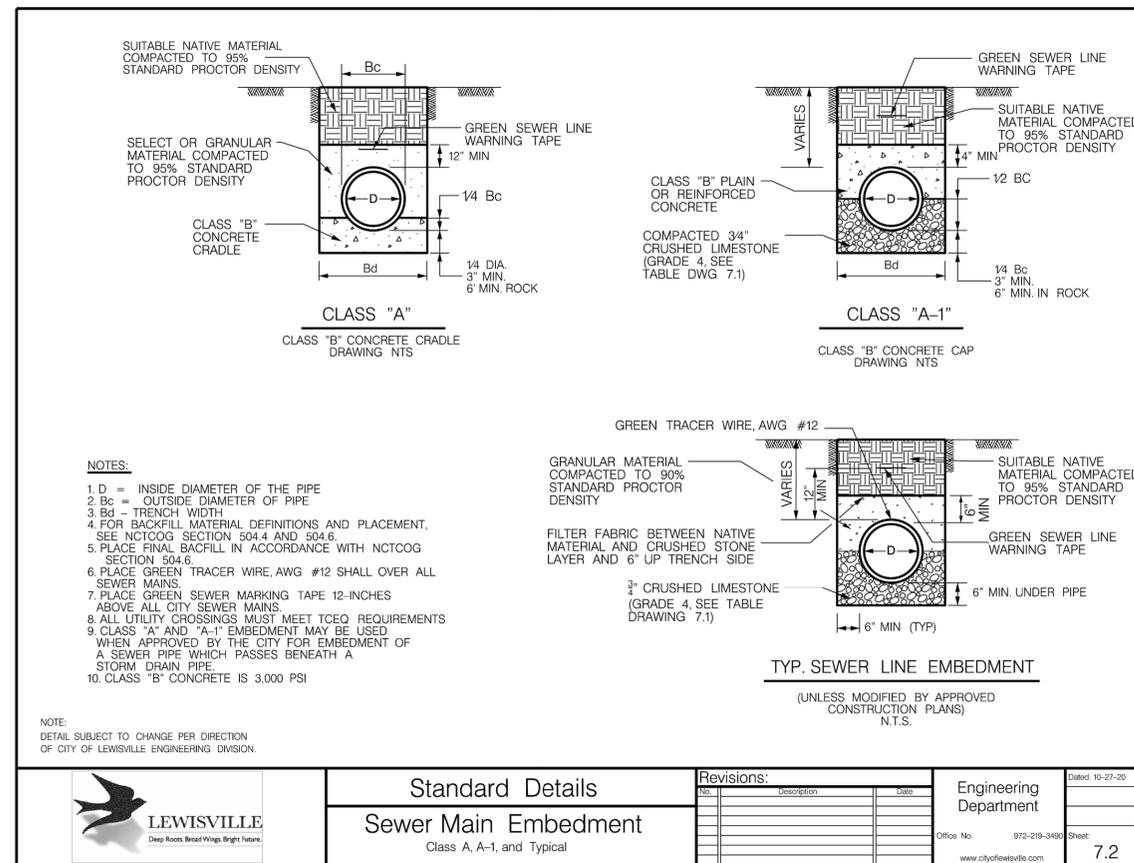






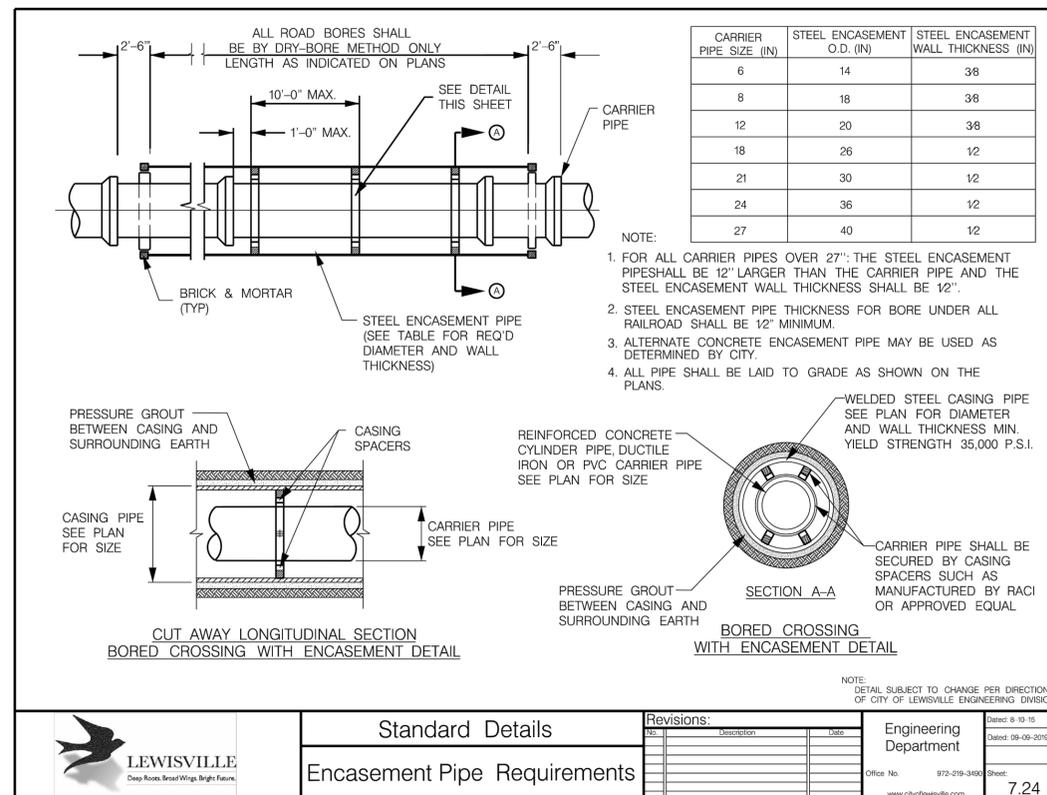
**Standard Details**  
**Sanitary Sewer Embedment**  
Class B-1, C, G, and G-1

Revisions:			Engineering Department	Date: 10-27-20
No.	Description	Date	Office No. 972-219-3490	Sheet: 7.1
			www.cityoflewisville.com	



**Standard Details**  
**Sewer Main Embedment**  
Class A, A-1, and Typical

Revisions:			Engineering Department	Date: 10-27-20
No.	Description	Date	Office No. 972-219-3490	Sheet: 7.2
			www.cityoflewisville.com	



**Standard Details**  
**Encasement Pipe Requirements**

Revisions:			Engineering Department	Date: 8-10-18
No.	Description	Date	Office No. 972-219-3490	Sheet: 7.24
			www.cityoflewisville.com	



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

**FOX AVE. TO W. COLLEGE ST.**

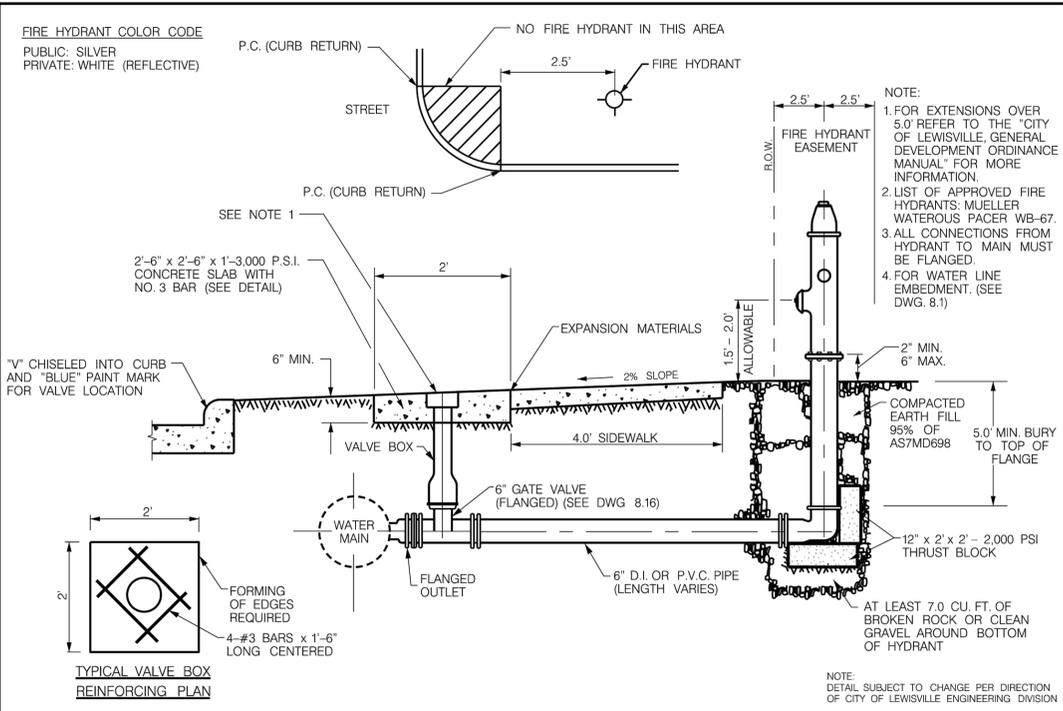
**STANDARD DETAIL SHEETS**  
**DETAIL SHEET 1**

**rjngroup** Texas Registered Engineering Firm F-3260

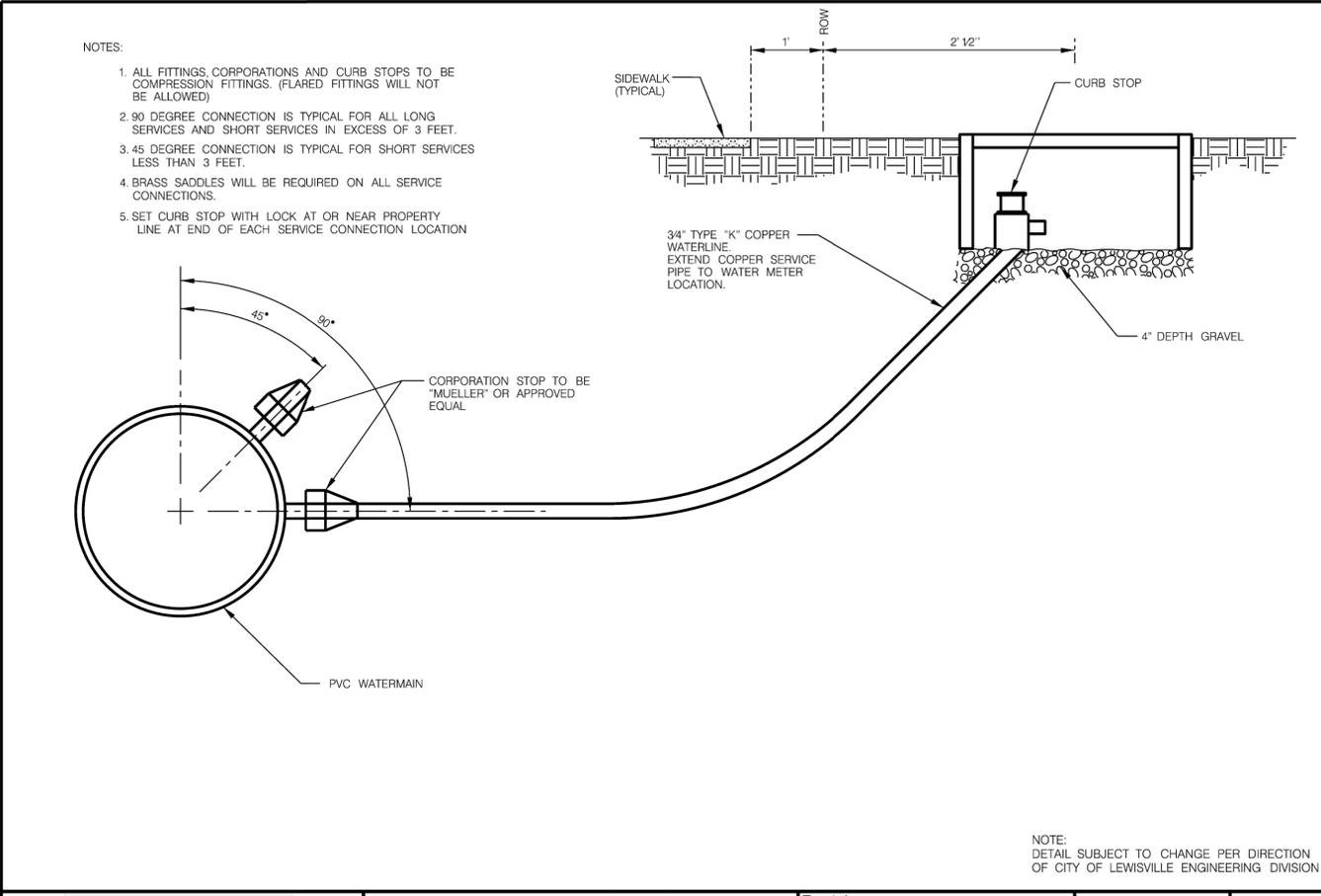
**RJN GROUP, INC.**  
14755 PRESTON RD. SUITE 710  
DALLAS, TEXAS 75254

DESIGN:	DATE:	SCALE:	PROJECT NO.:	SHEET:
MDH	Dec 2021	AS NOTED	18-3658-00	66 OF 74

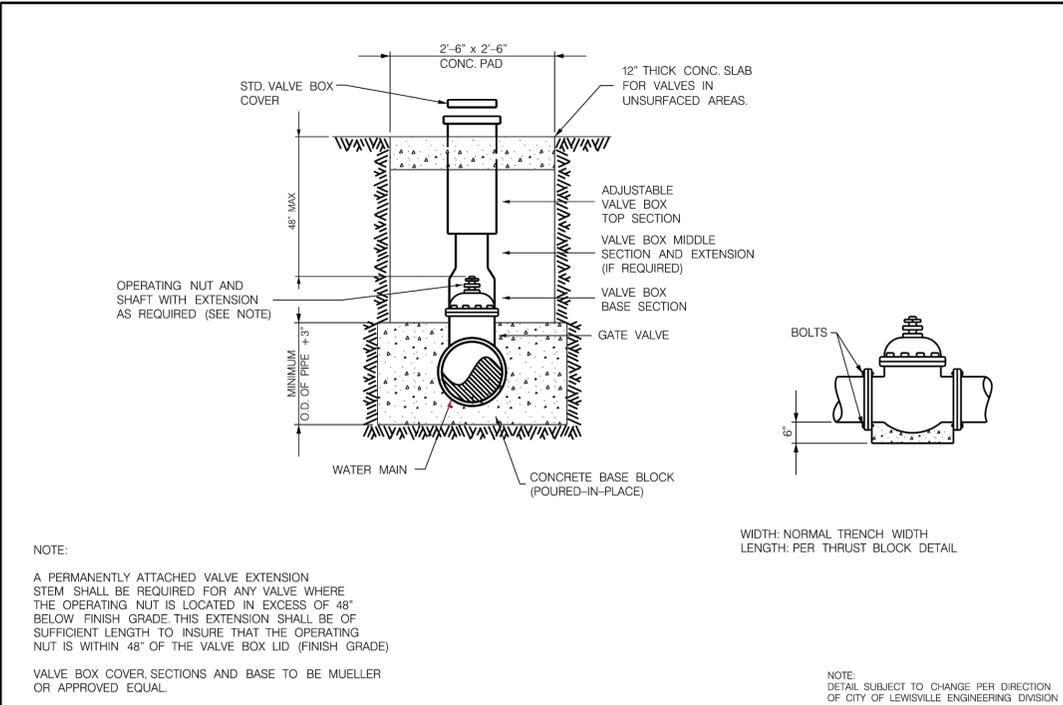
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Standard Details		Revisions:	Engineering Department	Dated: 08-17-15
Typical Installation Fire Hydrant Assembly		No. Description Date	Office No. 972-219-3499	Sheet: 8.2



Standard Details		Revisions:	Engineering Department	Dated: 8-19-07
Typical Service Connection		No. Description Date	Office No. 972-219-3499	Sheet: 8.2



Standard Details		Revisions:	Engineering Department	Dated: 11-1-13
Valve Blocking & Adjustable Valve Box Detail		No. Description Date	Office No. 972-219-3499	Sheet: 8.9



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
 ENGINEERING DEPARTMENT

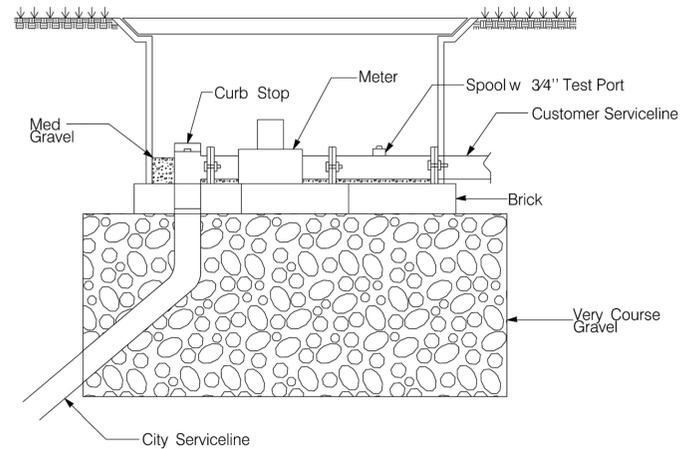
FOX AVE. TO W. COLLEGE ST.  
**STANDARD DETAIL SHEETS**  
 DETAIL SHEET 2

**rjngroup** Texas Registered Engineering Firm F-3260      R/JN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254

DESIGN: MDH	DATE: Dec 2021	SCALE: AS NOTED	PROJECT NO: 18-3658-00	SHEET: 67 OF 74
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MARK D. HINTON, P.E. (80210) - STATE OF TEXAS LICENSED PROFESSIONAL ENGINEER  
 PLOTTED ON 01/22/21, TIME 2:48 PM BY RICHARD LAMM





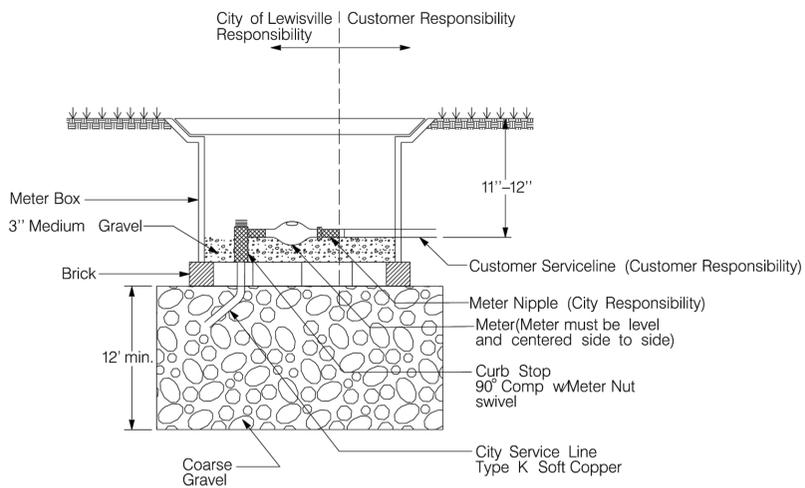
NOTE:  
DETAIL SUBJECT TO CHANGE PER DIRECTION  
OF CITY OF LEWISVILLE ENGINEERING DIVISION



**Standard Details**  
Typical Installation of  
1 1/2" & 2" Water Meter

Revisions:		
No.	Description	Date

Engineering Department  
Office No. 972-219-3490  
Sheet: 8.19  
www.cityoflewisville.com



No Coupling allowed on new installation.  
Service line must be solid piping.  
Any break or extension in the service  
line will be connected with a brass  
comp by comp. coupling

NOTE:  
DETAIL SUBJECT TO CHANGE PER DIRECTION  
OF CITY OF LEWISVILLE ENGINEERING DIVISION



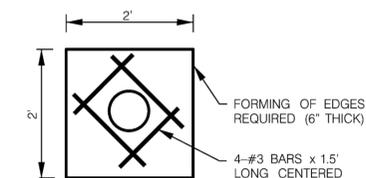
**Standard Details**  
Typical Installation of  
Residential Water Meter

Revisions:		
No.	Description	Date

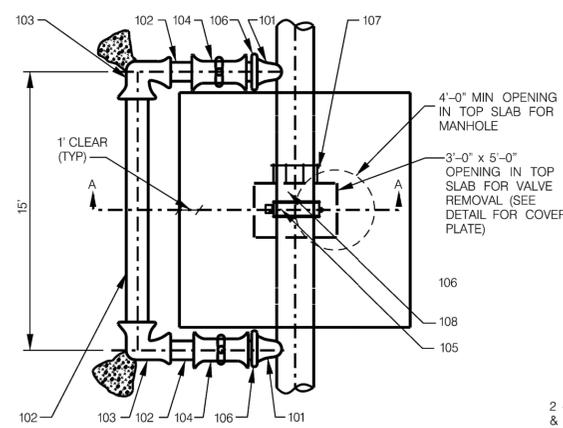
Engineering Department  
Office No. 972-219-3490  
Sheet: 8.19a  
www.cityoflewisville.com

MARK	DESCRIPTION
101	FLANGE OUTLET, BYPASS SIZE
102	SPOOL, FLANGE x P.E., BYPASS SIZE
103	90° M.J. x M.J. BYPASS SIZE
104	GATE VALVE, FL x M.J., BYPASS SIZE
105	BUTTERFLY VALVE, FL x FL (SIZE AS SHOWN ON PLANS 20" TO 48")
106	RETAINER GLAND, BYPASS SIZE
107	FLEXIBLE COUPLING, LINE SIZE
108	SPOOL, FL x P.E., LINE SIZE x 1'-6" LONG

SIZE REQUIREMENTS FOR BYPASS VALVES ABOVE 48" WILL BE STATED ON THE PLANS	
VALVE DIAMETER	BYPASS DIAMETER
20"	4"
24" - 48"	6"

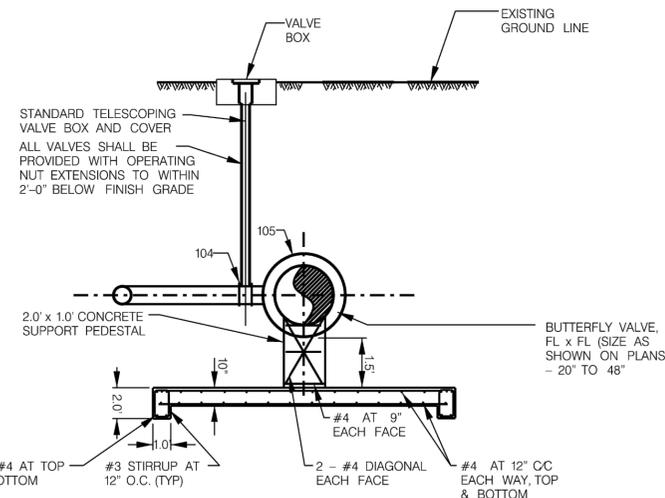


TYPICAL VALVE BOX REINFORCING PLAN



PLAN VIEW

NOTE:  
BYPASS SIZE SHALL BE AS SHOWN ON PLANS



SECTION A-A

NOTE:  
DETAIL SUBJECT TO CHANGE PER DIRECTION  
OF CITY OF LEWISVILLE ENGINEERING DIVISION



**Standard Details**  
Direct Bury Butterfly Valve  
Detail

Revisions:		
No.	Description	Date

Engineering Department  
Office No. 972-219-3490  
Sheet: 8.8c  
www.cityoflewisville.com

REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT  
FOX AVE. TO W. COLLEGE ST.  
**STANDARD DETAIL SHEETS**  
DETAIL SHEET 4

**rjngroup** Texas Registered Engineering Firm F-3260  
RJV GROUP, INC.  
14755 PRESTON RD. SUITE 710  
DALLAS, TEXAS 75254

DESIGN:	MDH	DATE:	Dec 2021	SCALE:	AS NOTED	PROJECT NO.:	18-3658-00	SHEET:	69 OF 74
DRAWN:	PRR	CHECKED:	JRC						

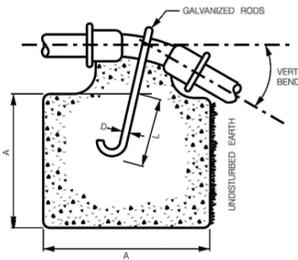
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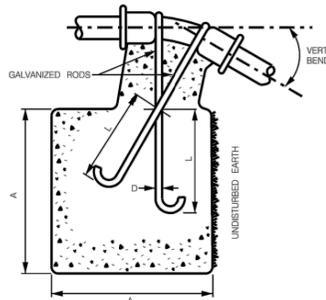
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 PLOTTED ON 01/22/21, TIME 3:05 PM BY RICHARDLANNY

- NOTES:
- THRUST IS BASED ON A WORKING PRESSURE OF 150 PSI.
  - VOLUME OF CONCRETE IS BASED ON 140 LBS PER CUBIC FOOT.
  - MEGA LUGS (OR APPROVED EQUAL) ARE REQUIRED ON ALL M.J. FITTINGS.

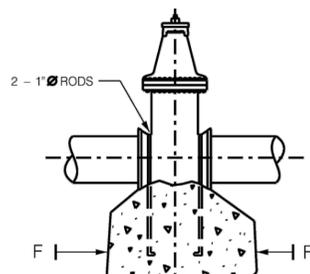
PIPE SIZE	VERT. BEND	CUBIC FEET	A (FT)	D (IN)	L (FT)
4"	11 1/4°	3	1.0	3/4	0.5
	22 1/2°	6	2.0		1.5
	45°	10	2.2		2.0
	90°	19	2.7		2.0
6"	11 1/4°	6	1.5	3/4	1.0
	22 1/2°	12	2.3		2.0
	45°	23	3.0		2.0
	90°	43	3.5		2.0
8"	11 1/4°	11	2.5	3/4	2.0
	22 1/2°	21	2.8		2.5
	45°	41	3.5		2.5
	90°	76	4.3		2.5
10"	11 1/4°	17	2.7	3/4	2.0
	22 1/2°	33	3.3		2.0
	45°	64	4.0		3.5
	90°	119	5.0		3.5
12"	11 1/4°	24	3.0	3/4	2.5
	22 1/2°	47	3.7		2.5
	45°	93	4.6		4.0
	90°	172	5.6		4.0
14"	11 1/4°	32	3.3	1	2.5
	22 1/2°	64	4.0		2.5
	45°	126	5.1		4.5
	90°	233	6.2		4.5
16"	11 1/4°	43	3.5	1	3.0
	22 1/2°	84	4.4		3.0
	45°	166	5.5		4.5
	90°	305	6.8		4.5
18"	11 1/4°	54	3.8	1	3.0
	22 1/2°	107	4.8		3.0
	45°	209	5.9		4.5
	90°	386	7.3		4.5
20"	11 1/4°	66	4.0	1	3.5
	22 1/2°	132	5.1		3.5
	45°	258	6.4		5.0
	90°	477	7.8		5.0
24"	11 1/4°	95	4.6	1 1/4	4.0
	22 1/2°	190	5.8		4.0
	45°	371	7.2		6.0
	90°	686	8.8		6.0
30"	11 1/4°	149	5.3	1 1/2	4.5
	22 1/2°	296	6.7		4.5
	45°	580	8.3		7.0
	90°	1071	10.2		7.0



VERTICAL BLOCKING FOR 11 1/4°, 22 1/2° & 30° BENDS



VERTICAL BLOCKING FOR 45° & 90° BENDS



GATE VALVE 8" OR LARGER

VERTICAL THRUST BLOCKING

NOTE: SUBJECT TO CHANGE PER DIRECTION OF CITY OF LEWISVILLE ENGINEERING DIVISION

Dated: 8-15-07	8.13
Dated: 10-14-2019	
Office No. 972-219-3488	
www.cityoflewisville.com	

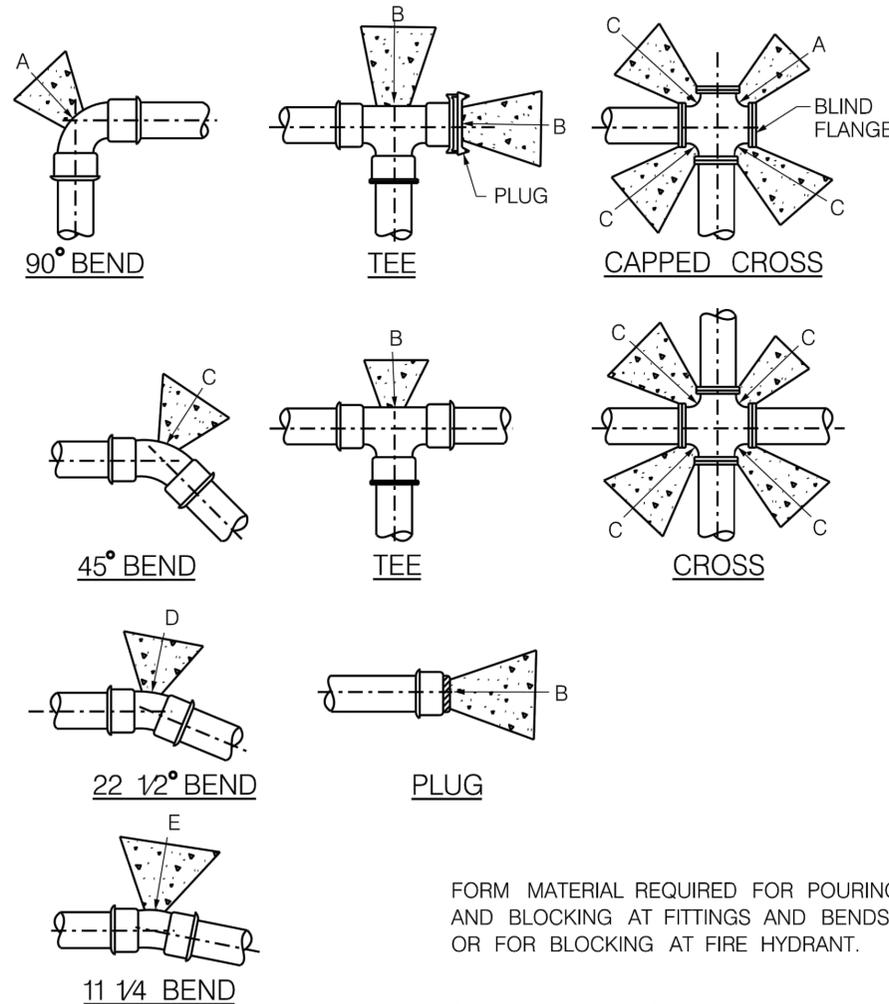
Revisions:	DATE	DESCRIPTION

Standard Details  
Vertical Thrust Blocking



PIPE SIZE (IN.)	MINIMUM BEARING AREA AGAINST UNDISTURBED SOIL (SQ. FT.)					
	A	B	C	D	E	F
4	2	2	1	1	1	2
6	4	3	3	1	1	3
8	8	5	4	2	1	5
10	12	8	6	3	2	8
12	16	12	9	5	2	12
14	22	15	12	6	3	15
16	29	20	16	8	4	20
18	36	25	20	10	5	25
20	44	32	24	12	6	32
24	64	45	35	18	9	45
30	100	71	54	28	14	71

- NOTES:
- THRUST IS BASED ON A WORKING PRESSURE OF 150 PSI.
  - BEARING AREA IS BASED ON A SAFE SOIL BEARING LOAD OF 1500 PSF.
  - BLOCKING SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF THE JOINT.
  - MEGA LUGS (OR APPROVED EQUAL) ARE REQUIRED ON ALL M.J. FITTINGS.



FORM MATERIAL REQUIRED FOR POURING AND BLOCKING AT FITTINGS AND BENDS OR FOR BLOCKING AT FIRE HYDRANT.

HORIZONTAL THRUST BLOCKING

NOTE: SUBJECT TO CHANGE PER DIRECTION OF CITY OF LEWISVILLE ENGINEERING DIVISION

Dated: 8-15-07	8.14
Dated: 10-14-2019	
Office No. 972-219-3488	
www.cityoflewisville.com	

Revisions:	DATE	DESCRIPTION

Standard Details  
Horizontal Thrust Blocking



REV.	COMMENTS	BY	DATE

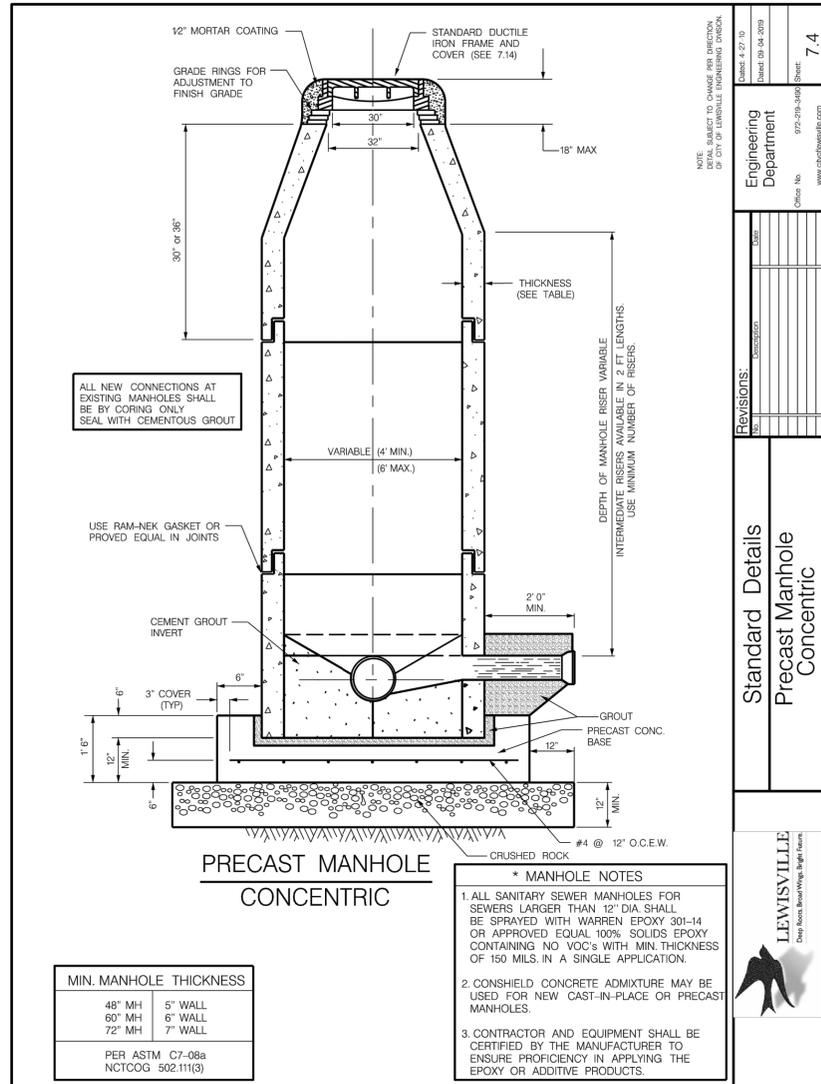
CITY OF LEWISVILLE, TEXAS  
 ENGINEERING DEPARTMENT

FOX AVE. TO W. COLLEGE ST.  
 STANDARD DETAIL SHEETS  
 DETAIL SHEET 6

<b>rjngroup</b>	Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254
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DESIGN: MDH	DATE: Dec 2021	SCALE: AS NOTED	PROJECT NO: 18-3658-00	SHEET: 71 OF 74
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NOTE: SUBJECT TO CHANGE PER DIRECTION OF CITY OF LEWISVILLE ENGINEERING DIVISION.

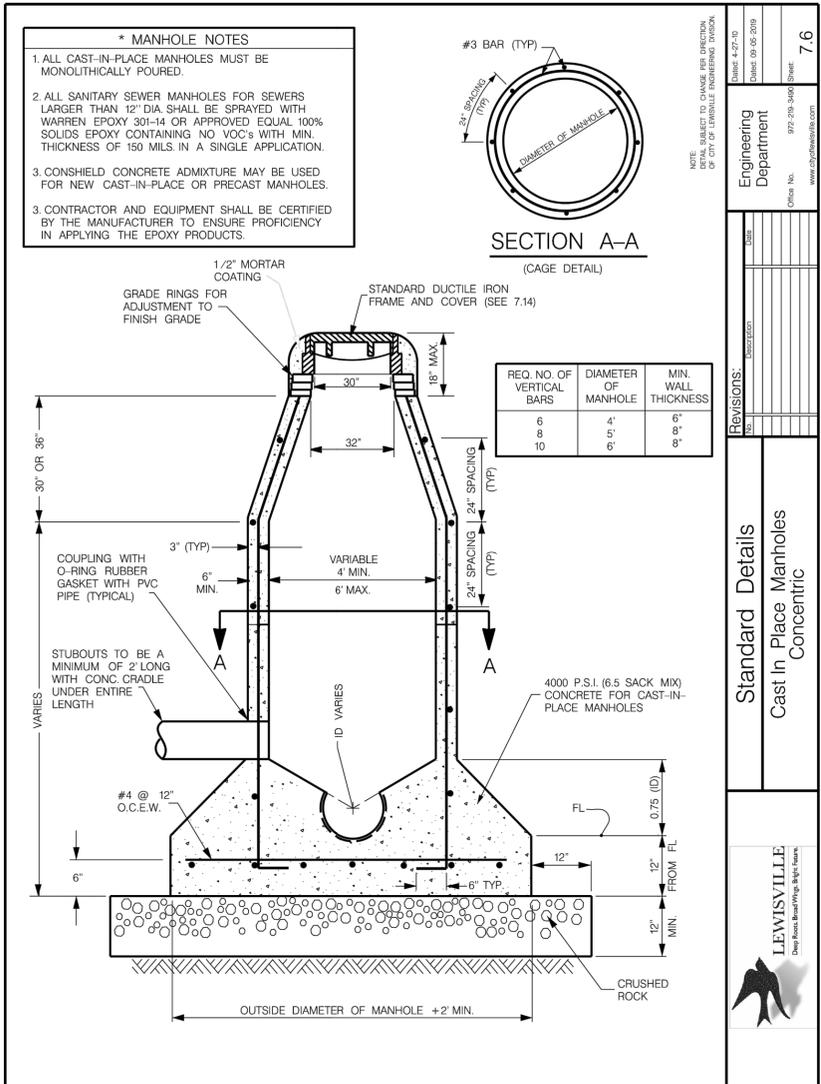
Sheet: 4.27-10  
Date: 09.04.2019  
Office No.: 972-270-3400  
www.cityoflewisville.com

Engineering Department

Revisions:

Standard Details  
Precast Manhole Concentric

LEWISVILLE  
Deep Roots. Broad Wings. Right Future.



NOTE: SUBJECT TO CHANGE PER DIRECTION OF CITY OF LEWISVILLE ENGINEERING DIVISION.

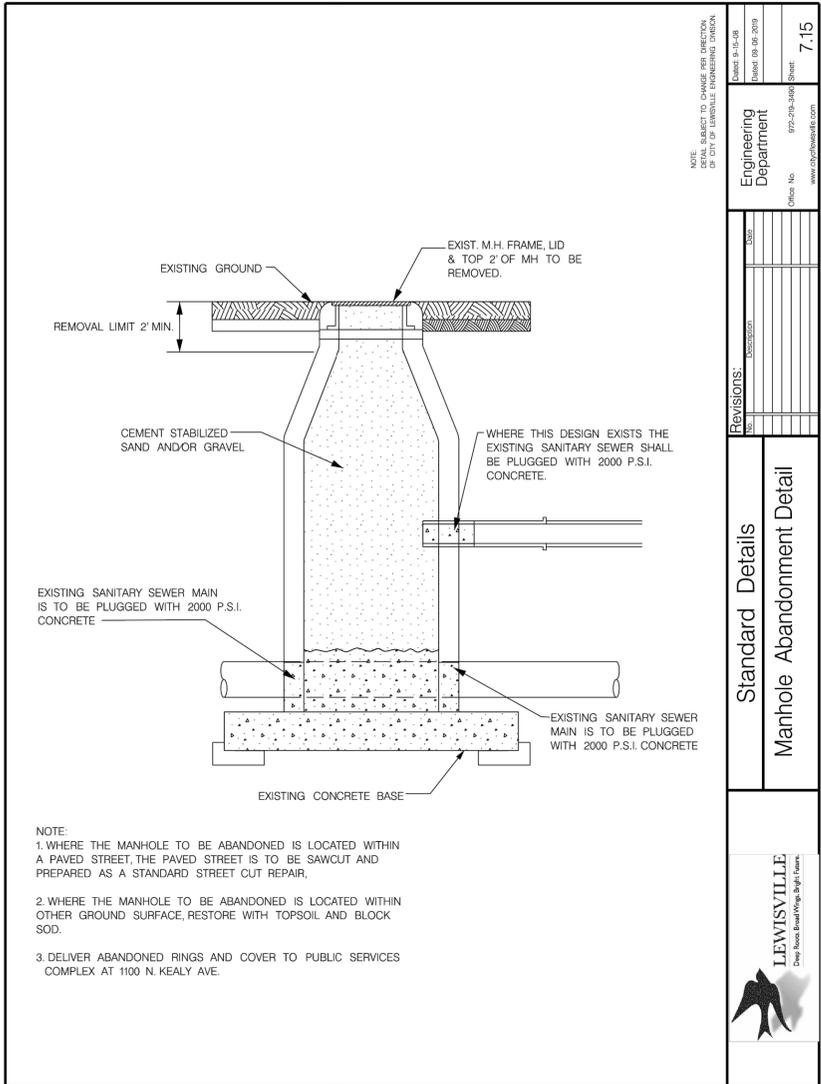
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Date: 09.04.2019  
Office No.: 972-270-3400  
www.cityoflewisville.com

Engineering Department

Revisions:

Standard Details  
Cast In Place Manholes Concentric

LEWISVILLE  
Deep Roots. Broad Wings. Right Future.



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Sheet: 4.27-10  
Date: 09.04.2019  
Office No.: 972-270-3400  
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Engineering Department

Revisions:

Standard Details  
Manhole Abandonment Detail

LEWISVILLE  
Deep Roots. Broad Wings. Right Future.



REV.	COMMENTS	BY	DATE

CITY OF LEWISVILLE, TEXAS  
ENGINEERING DEPARTMENT

FOX AVE. TO W. COLLEGE ST.  
STANDARD DETAIL SHEETS  
DETAIL SHEET 7

**rjngroup** Texas Registered Engineering Firm F-3260  
RJN GROUP, INC.  
14755 PRESTON RD. SUITE 710  
DALLAS, TEXAS 75254

DESIGN: MDH	DATE: Dec 2021	SCALE: AS NOTED	PROJECT NO.: 18-3658-00	SHEET: 72 OF 74
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 MARK D. HINTON\OFFICE\INTERACTIVE\LEWISVILLE\160806 - H-USE UTILITY RELOCATIONS CAD\03\_SHEETS\160806\DETAIL SHEETS\DWG  
 PLOTTED ON 01/22/21, TIME 3:37:19 PM BY RICHARD LAMMY

NAMEPLATE INDICATION:  
 MFG. PARK EQUIP. CO.  
 (800) 255-8041  
 MODEL: DM-LV34  
 DATE MANUFACTURED

**PLAN VIEW**

SIZE	MODEL	BT PASS	DIMENSIONS			WEIGHT LBS.
			LI	W1	H1	
6"	280W-CI-6-0-B-1-B	4"	13'-0"	7'-0"	7'-6"	22,000
8"	280W-CI-8-0-B-1-B	4"	13'-0"	7'-0"	7'-6"	22,000

**ELEVATION**

**Specifications**

**CONCRETE:** Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

**REINFORCEMENT:** Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

**HATCHWAY:** Hinged 14" aluminum diamond plate cover with 14" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & brass hinges.

**Engineering Data**

Field excavation and preparation shall be completed prior to delivery of assembly. Use dimensional data as shown.

Revisions:

No.	Description

Department of  
Community  
Development

Office No. 972-279-3400  
Fax No. 972-279-3407  
www.cityoflewisville.com

8.16a

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**Standard Details**  
6" & 8" Water Meter Vault Assembly

NAMEPLATE INDICATION:  
 MFG. PARK EQUIP. CO.  
 (800) 255-8041  
 MODEL: DM-LV34  
 DATE MANUFACTURED

**PLAN VIEW**

SIZE	MODEL	BYPASS	DIMENSIONS			WEIGHT LBS.
			LI	W1	H1	
3"	280W-CI-3-0-B-1-B	2"	13'-0"	7'-0"	7'-6"	22,000
4"	280W-CI-4-0-B-1-B	2"	13'-0"	7'-0"	7'-6"	22,000

**ELEVATION**

**Specifications**

**CONCRETE:** Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

**REINFORCEMENT:** Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

**HATCHWAY:** Hinged 14" aluminum diamond plate cover with 14" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & brass hinges.

**Engineering Data**

Field excavation and preparation shall be completed prior to delivery of assembly. Use dimensional data as shown.

Revisions:

No.	Description

Department of  
Community  
Development

Office No. 972-279-3400  
Fax No. 972-279-3407  
www.cityoflewisville.com

8.16

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**Standard Details**  
3" & 4" Water Meter Vault Assembly



REV.	COMMENTS	BY	DATE

**CITY OF LEWISVILLE, TEXAS**  
ENGINEERING DEPARTMENT

FOX AVE. TO W. COLLEGE ST.

**STANDARD DETAIL SHEETS**  
DETAIL SHEET 9

<b>rjngroup</b>	Texas Registered Engineering Firm F-3260	RJN GROUP, INC. 14755 PRESTON RD. SUITE 710 DALLAS, TEXAS 75254		
	DESIGN: MDH	DATE: Dec 2021	SCALE: AS NOTED	PROJECT NO: 18-3658-00